

GREEN BOOK

PREMIUM SYSTEMS FOR DRY CONSTRUCTION

MANUAL

Partition Walls | Shaft Walls | Wall Linings | Ceilings
Column Encasement | Exterior Walls, Linings and Ceilings



TABLE OF CONTENTS

Partition Walls

TG Pro W1-1	Single metal stud frame - single layer cladding	4-8
TG Pro W1-2	Single metal stud frame - double layer cladding	9-13
TG Pro W1-3	Single metal stud frame - triple layer cladding	14-18
TG Pro W2-2-1	Double metal stud frame - double layer cladding and one intermediate layer	19-22
TG Pro W2-2A	Double metal stud frame - double layer cladding	23-26
TG Pro W2-2B	Double metal stud frame - double layer cladding	27-30
TG Pro W2-3A	Double metal stud frame - triple layer cladding	31-34
TG Pro W2-3B	Double metal stud frame - triple layer cladding	35-38
Metal Stud Frame		39
Cantilever Loads and Door Frame Openings		40
Cladding		41
Surface Quality Levels and Joint Treatment		42-43

Shaft Walls

TG Pro S1-1	Single metal stud frame with CW profiles - single layer cladding	44-45
TG Pro S1-2	Single metal stud frame with CW profiles - double layer cladding	46-48
TG Pro S1-3	Single metal stud frame with CW profiles - triple layer cladding	49-51
TG Pro S1-4	Single metal stud frame with CW profiles - quadruple layer cladding	52-54
TG Pro S2-2	Double metal stud frame with CW profiles - double layer cladding	55-57
TG Pro S2-3	Double metal stud frame with CW profiles - triple layer cladding	58-60
Metal Stud Frame		61
Cladding		62
Surface Quality Levels and Joint Treatment		63-64

TABLE OF CONTENTS

Wall Linings

TG Pro L0-1	Non load-bearing wall lining	65-67
TG Pro L1-1	Single metal stud frame with CD profiles - single layer cladding	68-69
TG Pro L1-2	Single metal stud frame with CD profiles - double layer cladding	70-71
Metal Stud Frame		72
Cladding		73
Surface Quality Levels and Joint Treatment		74-75

Ceilings

Suspended Ceilings

TG Pro C1-1	Single metal stud frame - single layer cladding	76-77
TG Pro C1-2	Single metal stud frame - double layer cladding	78-80
TG Pro C1-1 Attic	Attic system with single metal stud frame - single layer cladding	81-84
TG Pro C1-2 Attic	Attic system with single metal stud frame - double layer cladding	81-84
TG Pro C2-1	Double metal stud frame - single layer cladding	85-90
TG Pro C2-2	Double metal stud frame - double layer cladding	85-90
TG Pro C2-3	Double metal stud frame - triple layer cladding	85-90
TG Pro C2-4	Double metal stud frame - quadruple layer cladding	85-90
TG Pro C2-1 UA	Double metal stud frame with UA - single layer cladding	91-93
TG Pro C2-2 UA	Double metal stud frame with UA - double layer cladding	91-93

Free spanning ceilings

TG Pro CS1 CW	Single metal stud frame - free spanning ceiling system with CW/UW profiles	94-95
TG Pro CS1 UA	Single metal stud frame - free spanning ceiling system with UA/UW profiles	96-97

Instructions

Metal Stud Frame		98-101
Cladding		102
Surface Quality Levels and Joint Treatment		103-104

TABLE OF CONTENTS

Fire Encasement Columns

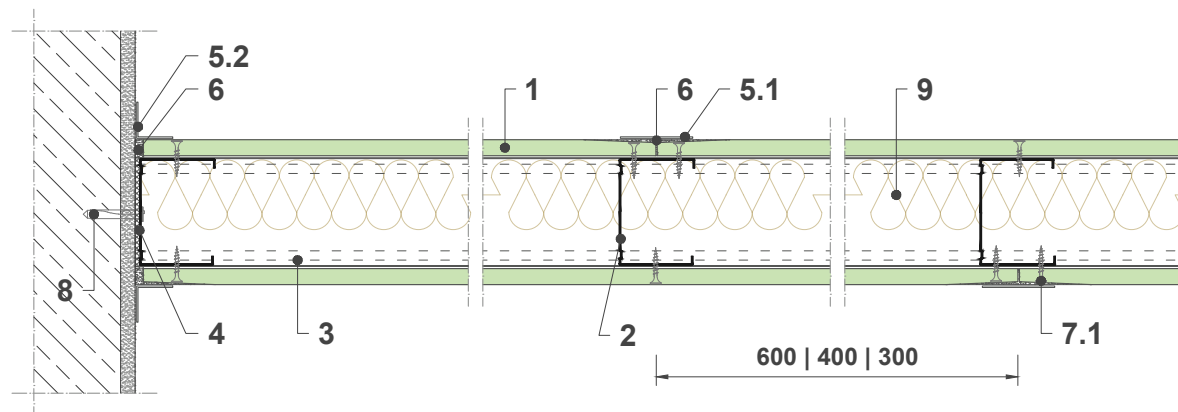
TG Pro FC1-2	Single metal stud frame - double layer cladding	105-106
TG Pro FC1-3	Single metal stud frame - triple layer cladding	107-108
TG Pro FC1-4	Single metal stud frame - quadruple layer cladding	109-110

Technogips Pro APEX® - Advance Performance Exterior Systems with Blue Board

Why Technogips Pro APEX®?		111-114
TG Pro APEX® Basic - Exterior Wall Systems With Direct Render Finish		115
TG Pro APEX® W1-1 Basic	Single metal stud frame - single layer cladding	116-121
TG Pro APEX® W1-2 Basic	Single metal stud frame - double layer cladding	117-121
TG Pro APEX® ETICS - Exterior Walls Systems with ETICS		122
TG Pro APEX® W1-1 ETICS	Single metal stud frame - single layer cladding	123-130
TG Pro APEX® W1-2 ETICS	Single metal stud frame - double layer cladding	124-130
TG Pro APEX® W2-1 ETICS	Double metal stud frame - single layer cladding	125-130
TG Pro APEX® W2-2 ETICS	Double metal stud frame - double layer cladding	126-130
TG Pro APEX® Venta - Exterior Wall Systems For Ventilated Facades		131
TG Pro APEX® W1-1 Venta	Single metal stud frame - single layer cladding	132-133
TG Pro APEX® W1-2 Venta	Single metal stud frame - double layer cladding	132-133
TG Pro APEX® Shield - Exerior Shaft Systems		134
TG Pro APEX® S1-1 Shield	Single metal stud frame - single layer cladding	135
TG Pro APEX® S1-2 Shield	Single metal stud frame - double layer cladding	135
TG Pro APEX® Soffit - Exterior Ceiling Systems		136
TG Pro APEX® C1-1 Soffit	Single metal stud frame - single layer cladding	137-138
TG Pro APEX® C2-1 Soffit	Double metal stud frame - single layer cladding	139-140
TG Pro APEX® C2-1 UA Soffit	Double metal stud frame with UA - single layer cladding	141-142
Installation Guide		143-145
Certified System Components		146-147

PARTITION WALLS

Technogips Pro W1-1



Air-borne Sound Insulation
RW max 57 dB

Self-Weight
up to 31 kg/m²

Wall Thickness
75 | 100 | 125 | 150 | 175 mm

Heights
up to 10.50 m

Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	2.0	2.0	2.0
2	Premium Profile Z140 CW 0.6 mm	m'	2.0	2.8	3.8
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7	0.7
4	Acoustic Tape @ the peripheral profiles	m'	1.2	1.2	1.2
5.1	Joint Tape @ inner joints ⁽²⁾	m'	1.9	1.9	1.9
5.2	Separation Strip TrennFix @ the peripheral joints	m'	1.7	1.7	1.7
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.6	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 250 mm	pcs	30.0	45.0	60.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6	1.6
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	1.7	1.7	1.7

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 3.6 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 1.0 kg/m² for skim coating.

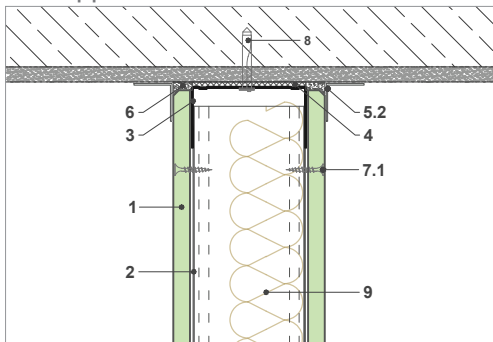
⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic.

PARTITION WALLS **Technogips Pro W1-1**
SINGLE METAL STUD FRAME - SINGLE LAYER CLADDING

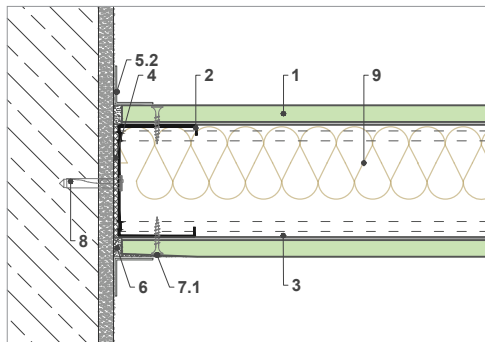


Board		Wall Weight	Wall Thickness	Profile	Insulation	Air-borne Sound Insulation $R_w^{(2)}$			Fire Resistance (without insulation)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Type	Thickness			Cavity	Thickness	Rw Glass Wool	Rw Stone Wool	Rw Without Insulation	EI 0 ⁽³⁾			EI 30			EI 45			EI 60			EI 90			EI 120			EI 180																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	minimum				minimum				Profile Spacing, mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	mm				mm				mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm

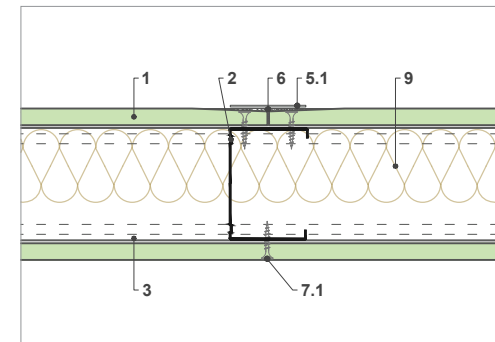
V01 Upper connection to solid concrete element



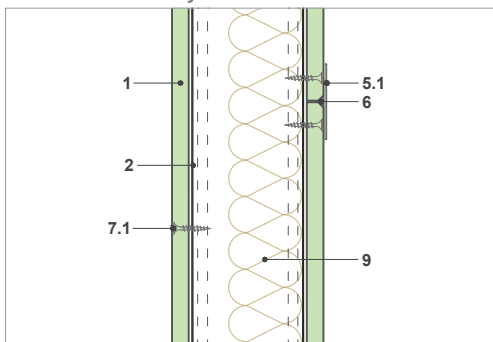
H01 Connection to solid concrete wall



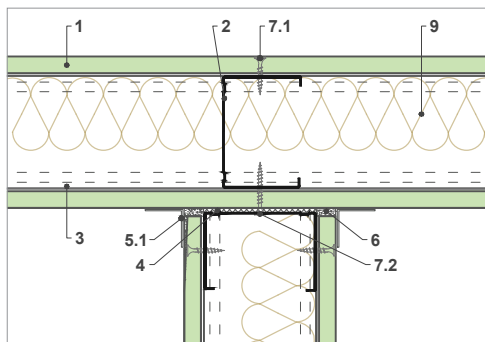
H02 Vertical Joint



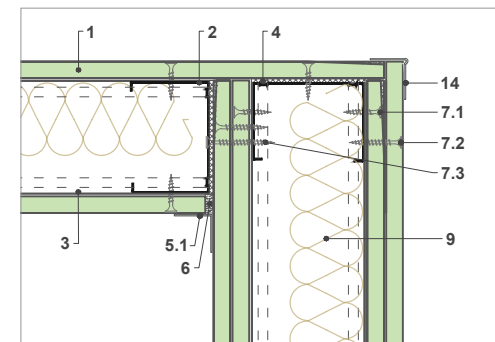
V02 Horizontal joint



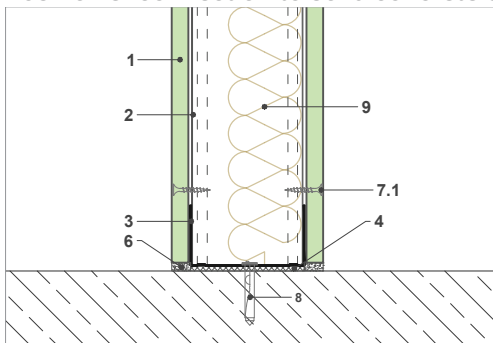
H03 T-intersection



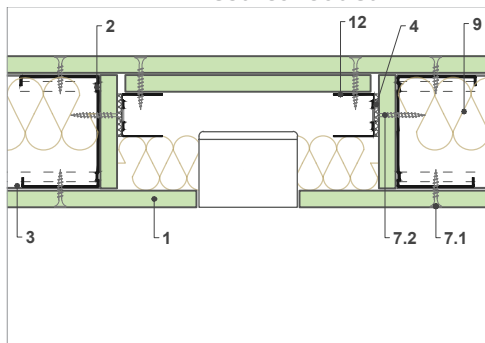
H04.2 Corner intersection W1-1 with W1-2



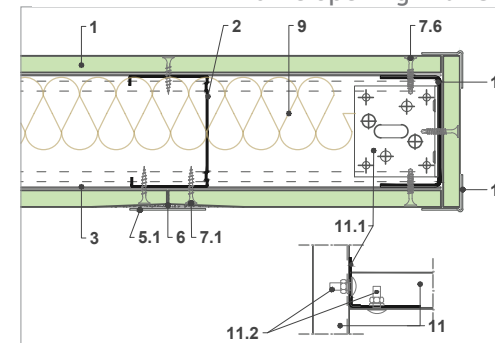
V03 Lower connection to solid concrete element



H12 Electrical outlet



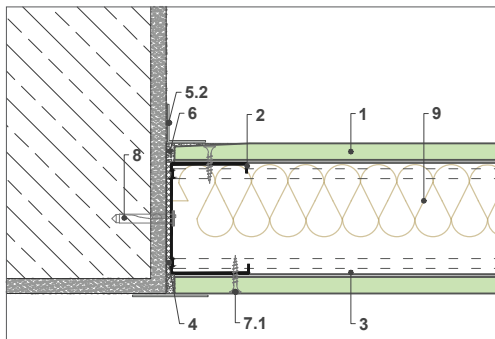
H11 Frame opening with UA



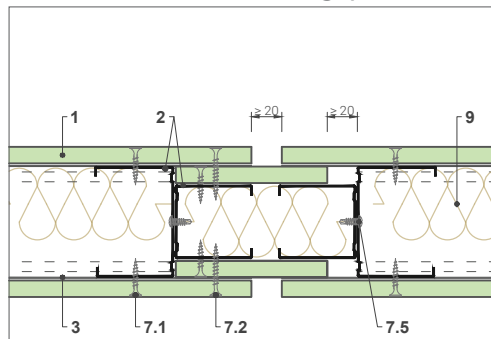
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

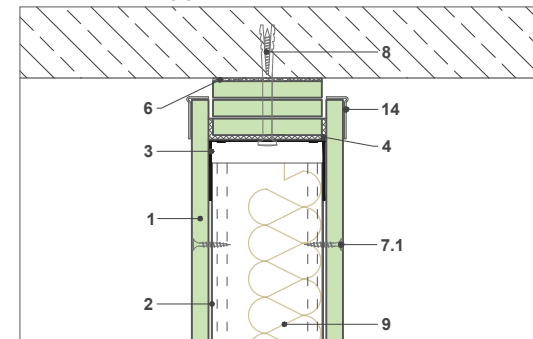
V01 Connection with solid wall



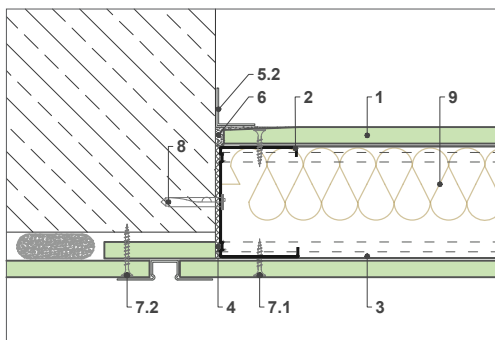
H01 Dilatation gap



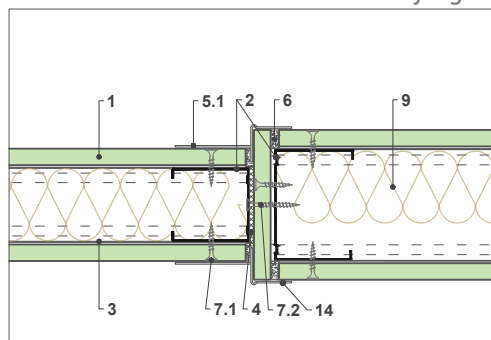
H02 Upper connection to solid ceiling



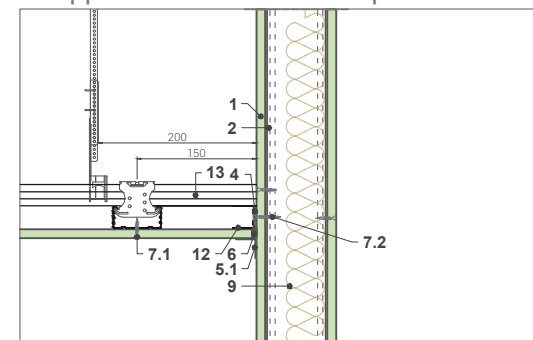
V02 Connection W1-1 with L0-1



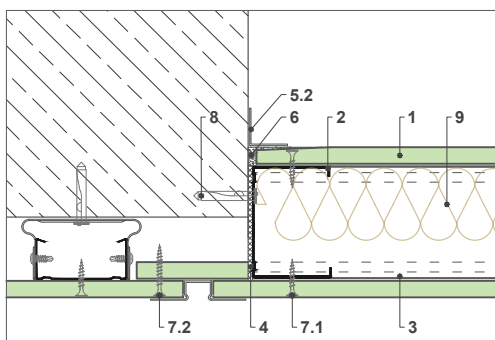
H03 Transition between walls with varying widths



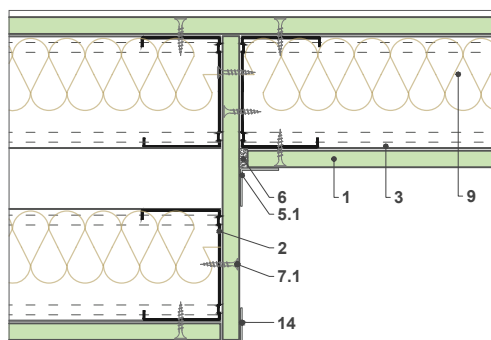
H04.2 Upper connection with suspended ceiling



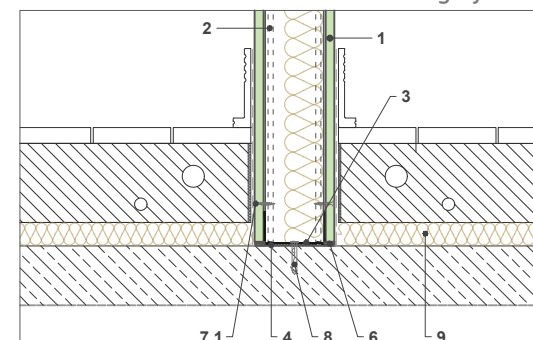
V03 Connection W1-2 with L1-1



H12 Connection W1-1 with W2-1B



H11 Lower connection to flooring system



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

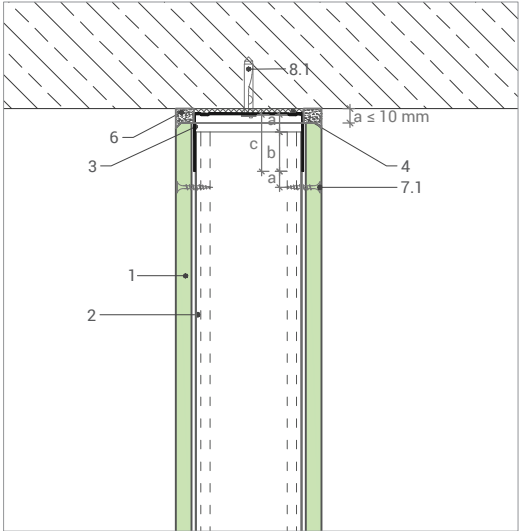
Details for high walls W1-1 - Upper connection to solid ceiling, vertical section

The choice of upper connection and type of UW profile depends on the height of the wall and **a** - the expected maximum deviation of the system.
Categories of upper connections available:

CERTIFIED SYSTEM COMPONENTS Technogips Pro	
1. Gypsum Board 12.5 mm	
2. Premium Profile CW	
3. Premium Profile UW	
4. Acoustic Tape	
6. Joint Filler FUGA	
7.1. Drywall Screw 3.5 x 25 mm	
7.2. Drywall Screw 3.5 x 35 mm	
7.4. Drywall Screw 3.5 x 55 mm	
8.1. Ceiling Anchor 6 x 40, 60, 80 mm	
8.2. Concrete Screwbolt	
8.3. Bolt Anchor	
9. Insulation Strip	

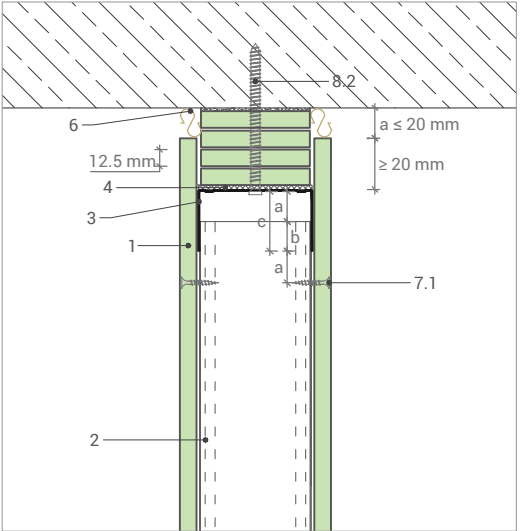
Detail
Height (m)
Deflection - a (mm)
UW profile - section
UW profile - thickness

V01.1 Height ≤ 4 m



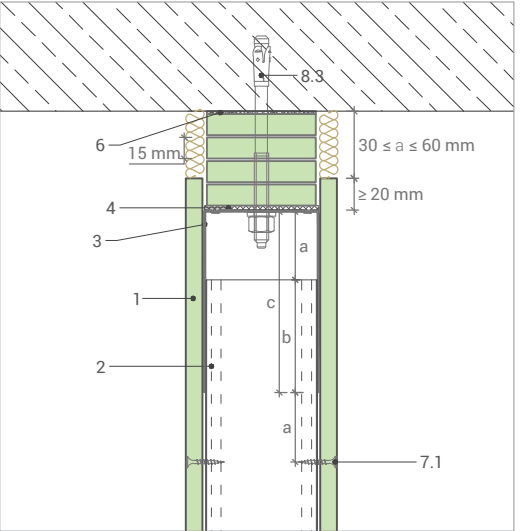
V01.1
≤ 4 m
a ≤ 10 mm
Standard UW, flange c=40 mm
0.6 mm

V01.2 Height ≤ 6 m



V01.2
≤ 6 m
a ≤ 20 mm
Standard UW, flange c=40 mm
0.6 mm

V01.3 Height ≤ 12 m

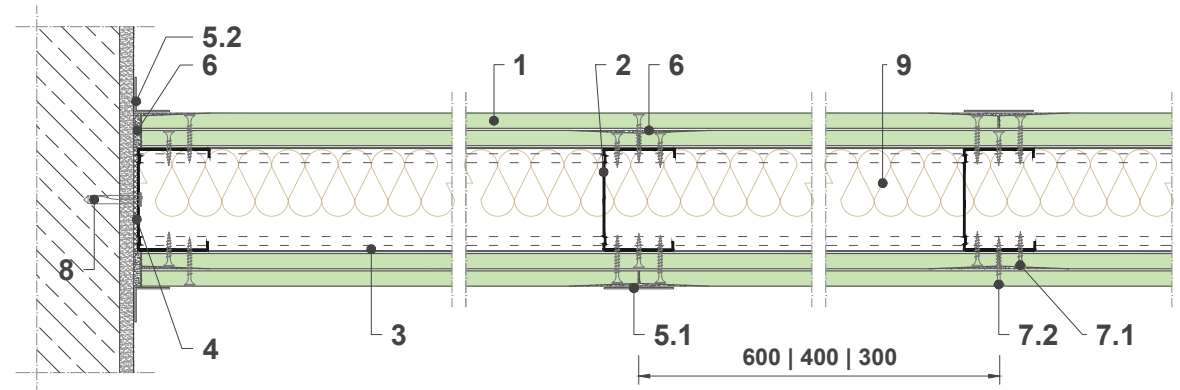


V01.3
≤ 12 m
30 ≤ a ≤ 60 mm
Reinforced UW, flange c=120 mm
1.0 mm

The specified maximum deflection of the system (**a**) includes the total displacement of the floor slabs and the expansion of the CW profile in the case of a fire.
With an expected deflection (**a**) > 70 mm, a special connection should be specified by request.

PARTITION WALLS

Technogips Pro W1-2



 **30 45 60 90 120 180**

 Air-borne Sound Insulation
RWmax 64 dB

 Self-Weight
up to 58 kg/m²

 Wall Thickness
100 | 125 | 150 | 175 | 200 mm

 Heights
up to 12 m

Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	4.0	4.0	4.0
2	Premium Profile Z140 CW 0.6 mm	m'	2.0	2.8	3.8
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7	0.7
4	Acoustic Tape @ the peripheral profiles	m'	1.2	1.2	1.2
5.1	Joint Tape @ inner joints ⁽²⁾	m'	1.9	1.9	1.9
5.2	Separation Strip TrennFix @ the peripheral joints	m'	1.7	1.7	1.7
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	1.2	1.2	1.2
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	15.0	18.0	30.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15 mm boards	pcs	30.0	45.0	60.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6	1.6
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	1.7	1.7	1.7

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 7.2 m²/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 1.4 kg/m² for jointing and 1.0 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic.

Board		Wall Weight	Wall Thickness	Profile	Insulation	Air-borne Sound Insulation Rw ⁽²⁾			Fire Resistance (without insulation)																							
Type	Thickness			Cavity	Thickness	Rw Glass Wool	Rw Stone Wool	Rw without insulation	EI 0 ³⁾			EI 30			EI 45			EI 60			EI 90			EI 120			EI 180					
	minimum				minimum				Profile Spacing, mm																							
	mm	kg/m²	mm	mm	mm	dB	dB	dB	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300			
Maximum permissible heights depending on the type of cladding, m ⁽¹⁾																																
A	2x12.5	40	100	CW 50	40	52	54	47	4.00	4.00	4.35	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00									
H2	2x12.5	40	100		40	52	54	47	4.00	4.00	4.35	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00								
DF	2x12.5	46	100		40	54	56	49	4.00	4.00	4.35	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00			
DFH2	2x12.5	46	100		40	54	56	49	4.00	4.00	4.35	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00			
Sound Comfort Extra DFIR	2x12.5	52	100		40	56	58	51	4.00	4.00	4.35	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
Titan Board DFH1IR	2x12.5	56	100		40	58	61	53	4.00	4.00	4.35	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
Blue Board GMDFH1IR	2x12.5	54	100		40	57	60	52	4.00	4.00	4.35	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
DF	2x15	56	110		40	56	58	51	4.00	4.00	4.35	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
DFH2	2x15	56	110	40	56	58	51	4.00	4.00	4.35	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00			
A	2x12.5	40	125	CW 75	60	55	56	49	5.05	5.95	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00									
H2	2x12.5	40	125		60	55	56	49	5.05	5.95	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00									
DF	2x12.5	46	125		60	57	59	51	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	4.00	6.00*	6.00*						
DFH2	2x12.5	46	125		60	57	59	51	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	4.00	6.00*	6.00*						
Sound Comfort Extra DFIR	2x12.5	52	125		60	60	61	54	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	4.00	6.00*	6.00*	6.00*					
Titan Board DFH1IR	2x12.5	56	125		60	61	62	55	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	4.00	6.00*	6.00*						
Blue Board GMDFH1IR	2x12.5	54	125		60	60	61	54	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	4.00	6.00*	6.00*						
DF	2x15	56	135		60	58	60	54	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	4.00	6.00*	6.00*						
DFH2	2x15	56	135	60	58	60	54	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	5.05	5.95	6.50	4.00	6.00*	6.00*							
A	2x12.5	40	150	CW 100	80	56	58	51	7.15	8.05	8.55	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00									
H2	2x12.5	40	150		80	56	58	51	7.15	8.05	8.55	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00									
DF	2x12.5	46	150		80	59	61	53	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	4.00	6.00*	6.00*						
DFH2	2x12.5	46	150		80	59	61	53	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	4.00	6.00*	6.00*						
Sound Comfort Extra DFIR	2x12.5	52	150		80	61	63	55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	4.00	6.00*	6.00*						
Titan Board DFH1IR	2x12.5	56	150		80	62	63	57	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	4.00	6.00*	6.00*						
Blue Board GMDFH1IR	2x12.5	54	150		80	61	63	56	7.15	8.08	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	4.00	6.00*	6.00*						
DF	2x15	56	160		80	60	61	55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	4.00	6.00*	6.00*						
DFH2	2x15	56	160	80	60	61	55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	7.15	8.05	8.55	4.00	6.00*	6.00*							
A	2x12.5	42	175	CW 125	100	58	59	52	9.05	9.65	10.10	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00									
H2	2x12.5	42	175		100	58	59	52	9.05	9.65	10.10	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00									
DF	2x12.5	48	175		100	60	61	54	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	4.00	6.00*	6.00*						
DFH2	2x12.5	48	175		100	60	61	54	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	4.00	6.00*	6.00*						
Sound Comfort Extra DFIR	2x12.5	54	175		100	62	63	56	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	4.00	6.00*	6.00*	6.00*					
Titan Board DFH1IR	2x12.5	58	175		100	63	64	58	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	4.00	6.00*	6.00*						
Blue Board GMDFH1IR	2x12.5	56	175		100	62	63	57	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	4.00	6.00*	6.00*						
DF	2x15	58	185		100	61	62	56	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	4.00	6.00*	6.00*						
DFH2	2x15	58	185	100	61	62	56	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	9.05	9.65	10.10	4.00	6.00*	6.00*							
A	2x12.5	42	200	CW 150	120	58	60	52	10.35	10.95	11.40	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00									
H2	2x12.5	42	200		120	58	60	52	10.35	10.95	11.40	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00									
DF	2x12.5	48	200		120	61	62	54	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	4.00	6.00*	6.00*						
DFH2	2x12.5	48	200		120	61	62	54	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	4.00	6.00*	6.00*						
Sound Comfort Extra DFIR	2x12.5	54	200		120	63	64	57	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	4.00	6.00*	6.00*						
Titan Board DFH1IR	2x12.5	58	200		120	63	64	58	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	4.00	6.00*	6.00*						
Blue Board GMDFH1IR	2x12.5	56	200		120	63	64	57	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	4.00	6.00*	6.00*						
DF	2x15	58	210		120	62	62	56	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	4.00	6.00*	6.00*						
DFH2	2x15	58	210	120	62	62	56	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	10.35	10.95	11.40	4.00	6.00*	6.00*							

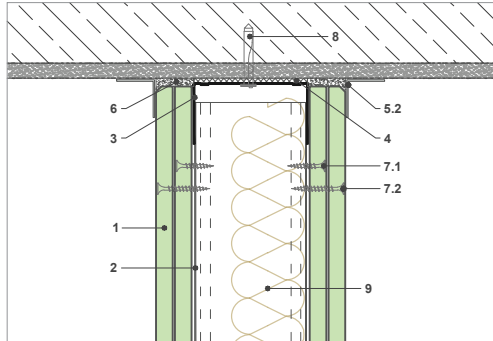
(1) Permissible heights according to DIN 18183 and additional cold static calculations.

(2) R: calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance $r > 5 \text{ kPa s/m}^2$

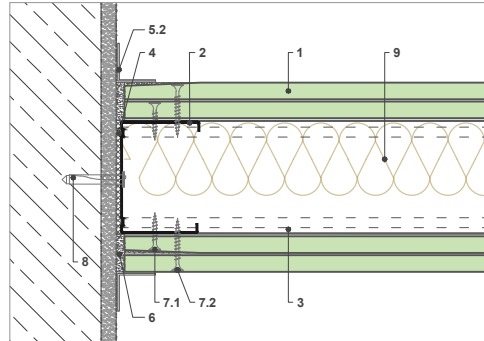
(3) Permissible heights without fire protection

* Heights are achieved with insulation layer thickness of 50 mm and density min. 40 kg/m³, in acc. with EN 13162

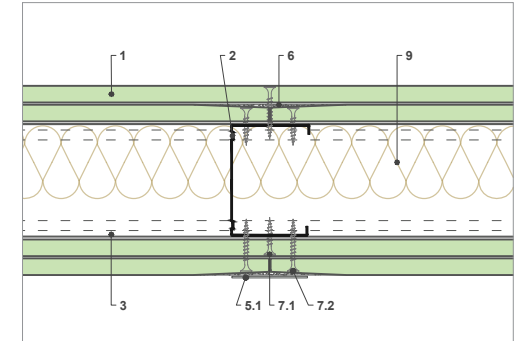
V01 Upper connection to solid concrete element



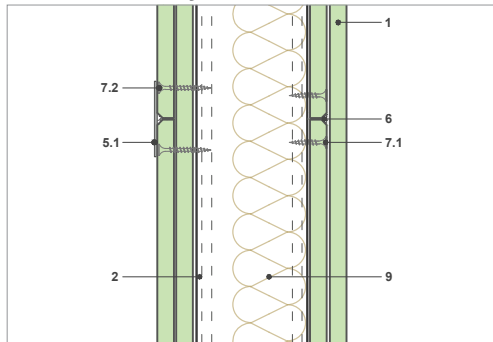
H01 Connection to solid concrete wall



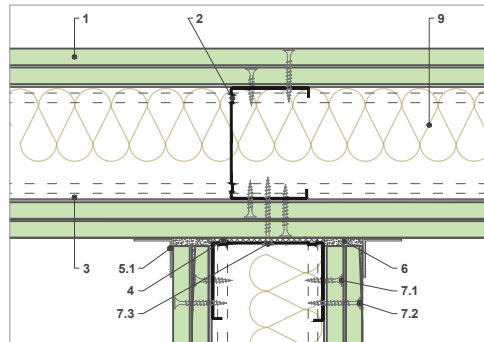
H02 Vertical Joint



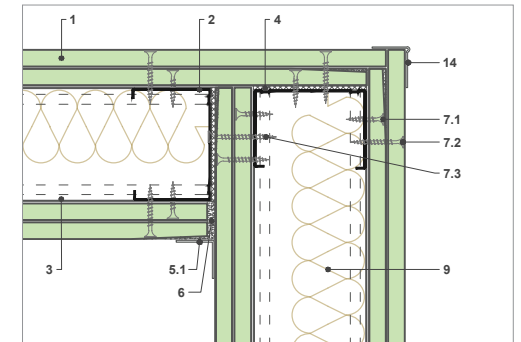
V02 Horizontal joint



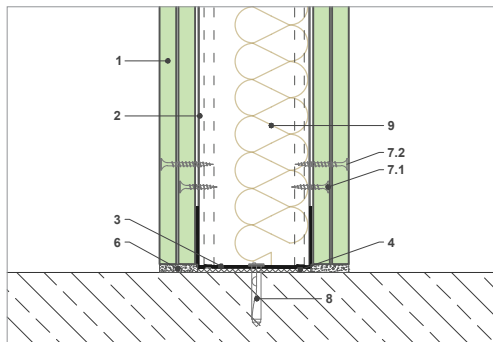
H03 T-intersection



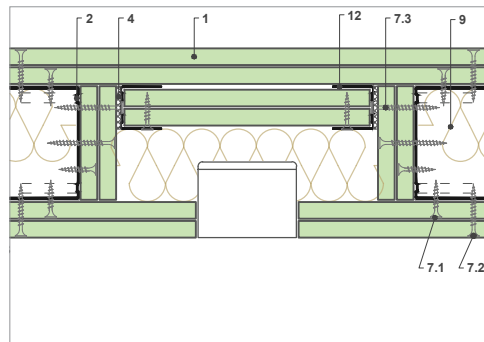
H04.2 Corner intersection W1-2 with W1-2



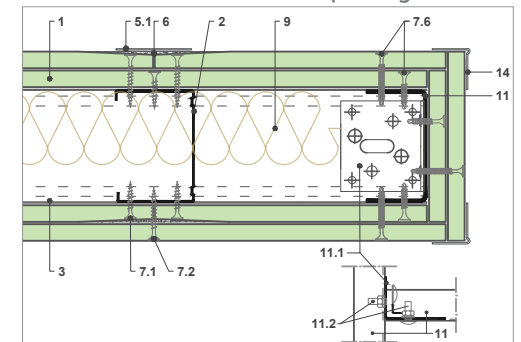
V03 Lower connection to solid concrete element



H12 Electrical outlet



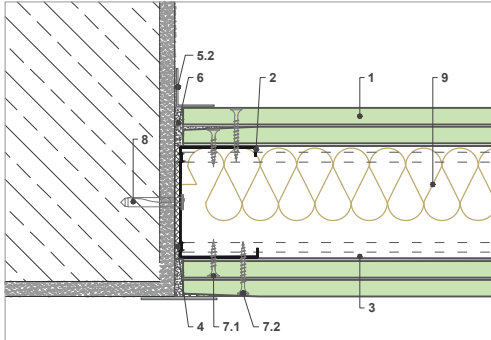
H11 Frame opening with UA



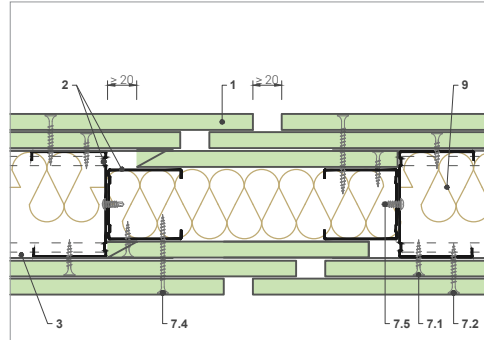
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

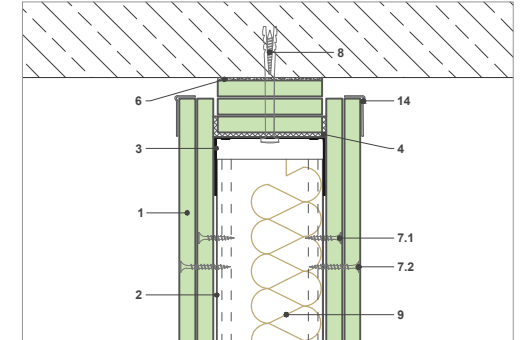
H07 Connection with solid wall



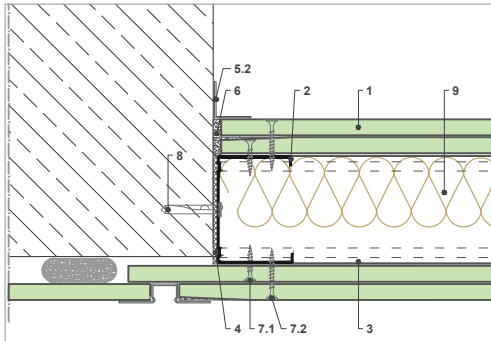
H05 Dilatation gap



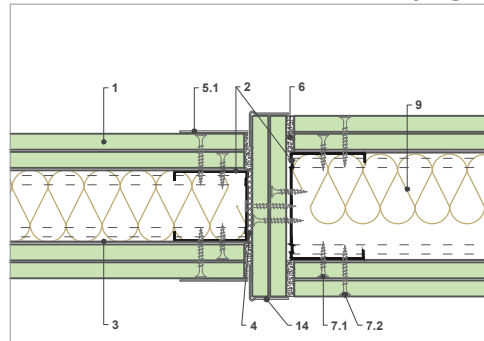
V04 Upper connection to solid ceiling



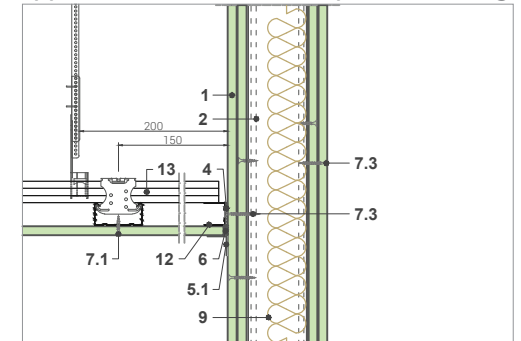
H08.1 Connection W1-2 with L0-1



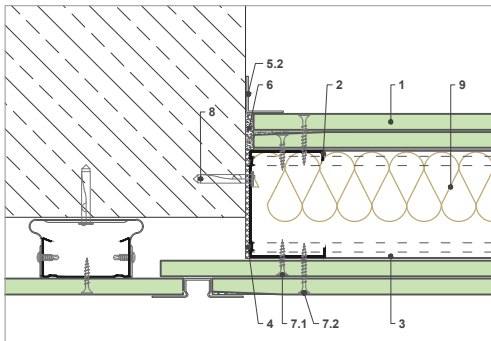
H06 Transition between walls with varying widths



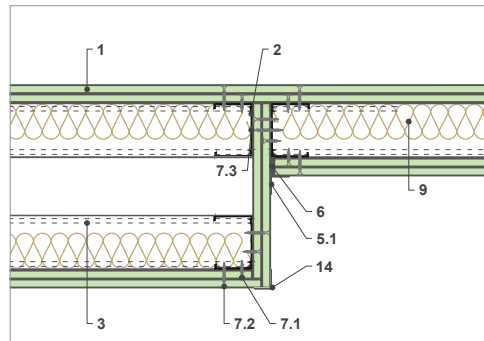
V05 Upper connection with suspended ceiling



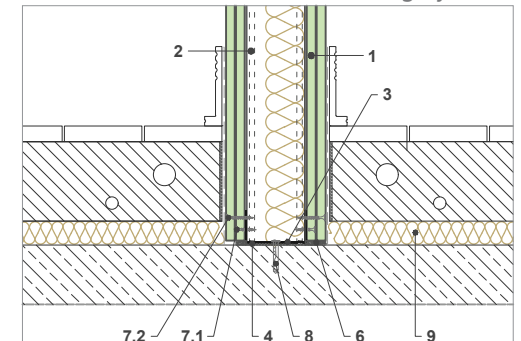
H08.2 Connection W1-2 with L1-1



H09 Connection W1-2 with W2-2B



V03.2 Lower connection to flooring system



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

Details for high walls W1-2 - Upper connection to solid ceiling, vertical section

The choice of upper connection and type of UW profile depends on the height of the wall and a - the expected maximum deviation of the system.

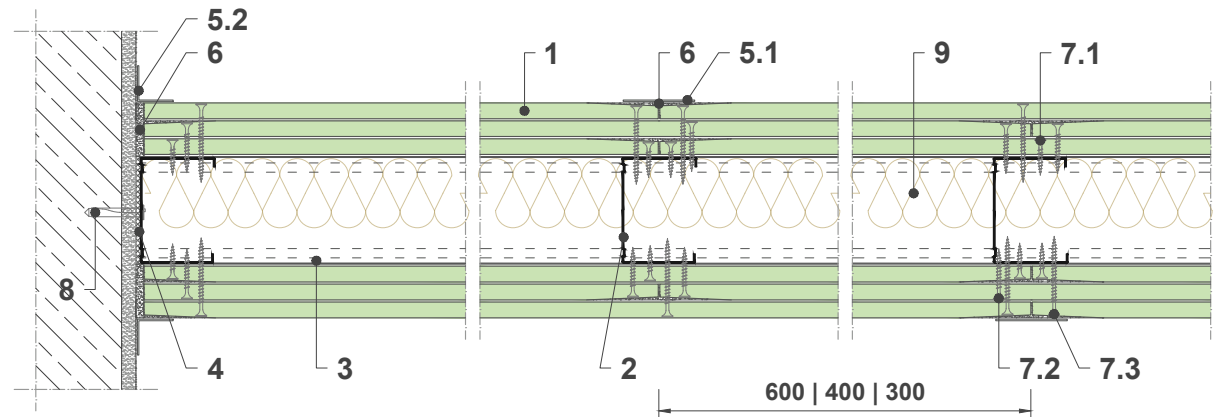
Categories of upper connections available:

CERTIFIED SYSTEM COMPONENTS Technogips Pro				
1. Gypsum Board 12.5 mm				
2. Premium Profile CW				
3. Premium Profile UW				
4. Acoustic Tape				
6. Joint Filler FUGA				
7.1. Drywall Screw 3.5 x 25 mm				
7.2. Drywall Screw 3.5 x 35 mm				
7.4. Drywall Screw 3.5 x 55 mm				
8.1. Ceiling Anchor 6 x 40, 60, 80 mm				
8.2. Concrete Screwbolt				
8.3. Bolt Anchor				
9. Insulation Strip				
Detail				
Height (m)	≤ 4 m	≤ 6 m	≤ 12 m	
Deflection - a (mm)	a ≤ 10 mm	a ≤ 20 mm	30 ≤ a ≤ 60 mm	
UW profile - section	Standard UW, flange c=40 mm	Standard UW, flange c=40 mm	Reinforced UW, flange c=120 mm	
UW profile - thickness	0.6 mm	0.6 mm	1.0 mm	

The specified maximum deflection of the system (**a**) includes the total displacement of the floor slabs and the expansion of the CW profile in the case of a fire. With an expected deflection (**a**) > 70 mm, a special connection should be specified by request.

PARTITION WALLS

Technogips Pro W1-3



Material Consumption ⁽¹⁾ per 1 m ²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	6.0	6.0	6.0
2	Premium Profile Z140 CW 0.6 mm	m'	2.0	2.8	3.8
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7	0.7
4	Acoustic Tape @ the peripheral profiles	m'	1.2	1.2	1.2
5.1	Joint Tape @ inner joints ⁽²⁾	m'	1.9	1.9	1.9
5.2	Separation Strip TrennFix @ the peripheral joints	m'	1.7	1.7	1.7
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	1.8	1.8	1.8
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	15.0	18.0	30.0
7.2	Drywall Screw 3.5 x 35 mm @ 500 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 500 mm @ 15 mm boards	pcs	15.0	18.0	30.0
7.3	Drywall Screw 3.5 x 55 mm @ 250 mm @ 12.5 mm boards Drywall Screw 4.2 x 70 mm @ 250 mm @ 15 mm boards	pcs	30.0	45.0	60.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6	1.6
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	1.0	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	1.7	1.7	1.7

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 10.8 m²/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 2.1 kg/m² for jointing and 1.0 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic.

30 45 60 90 120 180

Air-borne Sound Insulation
R_wmax 68 dB

Self-Weight
up to 85 kg/m²

Wall Thickness
125 | 150 | 175 | 200 | 225 mm

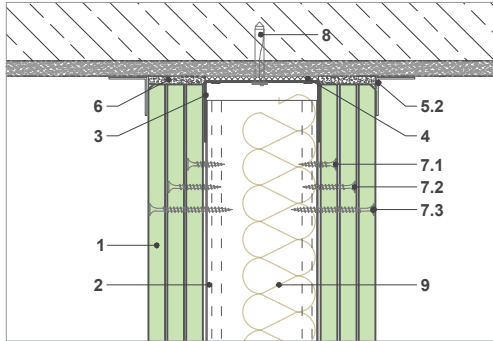
Heights
up to 12 m

PARTITION WALLS **Technogips Pro W1-3**
SINGLE METAL STUD FRAME - TRIPLE LAYER CLADDING

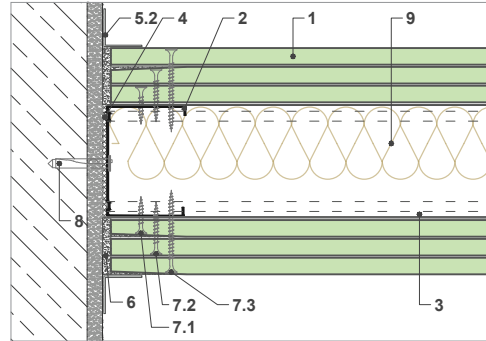


Boards		Wall Weight	Wall Thickness	Profile	Insulation	Air-borne Sound Insulation R _w ⁽²⁾			Fire Resistance (without insulation)																				
Type	Thickness			Cavity	Thickness	R _w Glass Wool	R _w Stone Wool	R _w Without Insulation	EI 0 ⁽³⁾			EI 30			EI 45			EI 60			EI 90			EI 120			EI 180		
	minimum				minimum				Profile Spacing, mm																				
	mm	kg/m ²	mm	mm	mm	dB	dB	dB	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300
Maximum permissible heights depending on the type of cladding, m ⁽¹⁾																													
A	12.5	59	125	CW 50	40	58	59	53	5.20	6.05	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
H2	12.5	59	125		40	58	59	53	5.20	6.05	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DF	12.5	68	125		40	60	62	55	5.20	6.05	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DFH2	12.5	68	125		40	60	62	55	5.20	6.05	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Sound Comfort Extra DFIR	12.5	77	125		40	62	64	58	5.20	6.05	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Titan Board DFH1IR	12.5	83	125		40	65	66	59	5.20	6.05	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Blue Board GMDFH1IR	12.5	80	125		40	63	64	58	5.20	6.05	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DF	15	83	140		40	62	63	58	5.20	6.05	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DFH2	15	83	140		40	62	63	58	5.20	6.05	6.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
A	12.5	59	150	CW 75	60	60	62	56	7.65	8.35	8.75	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
H2	12.5	59	150		60	60	62	56	7.65	8.35	8.75	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DF	12.5	68	150		60	62	64	58	7.65	8.35	8.75	7.65	8.35	8.75	7.65	8.35	8.75	6.76	8.35	8.75	6.04	8.35	8.75	4.00	7.41	8.25	4.00	4.00	4.00
DFH2	12.5	68	150		60	62	64	58	7.65	8.35	8.75	7.65	8.35	8.75	7.65	8.35	8.75	6.76	8.35	8.75	6.04	8.35	8.75	4.00	7.41	8.25	4.00	4.00	4.00
Sound Comfort Extra DFIR	12.5	77	150		60	65	66	60	7.65	8.35	8.75	7.65	8.35	8.75	7.65	8.35	8.75	6.76	8.35	8.75	6.04	8.35	8.75	4.00	7.41	8.25	4.00	4.00	4.00
Titan Board DFH1IR	12.5	83	150		60	66	68	61	7.65	8.35	8.75	7.65	8.35	8.75	7.65	8.35	8.75	6.76	8.35	8.75	6.04	8.35	8.75	4.00	7.41	8.25	4.00	4.00	4.00
Blue Board GMDFH1IR	12.5	80	150		60	65	66	61	7.65	8.35	8.75	7.65	8.35	8.75	7.65	8.35	8.75	6.76	8.35	8.75	6.04	8.35	8.75	4.00	7.41	8.25	4.00	4.00	4.00
DF	15	83	165		60	64	65	59	7.65	8.35	8.75	7.65	8.35	8.75	7.65	8.35	8.75	6.76	8.35	8.75	6.04	8.35	8.75	4.00	7.41	8.25	4.00	4.00	4.00
DFH2	15	83	165		60	64	65	59	7.65	8.35	8.75	7.65	8.35	8.75	7.65	8.35	8.75	6.76	8.35	8.75	6.04	8.35	8.75	4.00	7.41	8.25	4.00	4.00	4.00
A	12.5	59	175	CW 100	80	61	63	57	9.60	10.05	10.40	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
H2	12.5	59	175		80	61	63	57	9.60	10.05	10.40	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DF	12.5	68	175		80	64	65	59	9.60	10.05	10.40	9.60	10.05	10.40	9.60	10.05	10.40	8.28	10.05	10.40	7.44	10.05	10.40	4.00	9.11	10.13	4.00	4.00	4.00
DFH2	12.5	68	175		80	64	65	59	9.60	10.05	10.40	9.60	10.05	10.40	9.60	10.05	10.40	8.28	10.05	10.40	7.44	10.05	10.40	4.00	9.11	10.13	4.00	4.00	4.00
Sound Comfort Extra DFIR	12.5	77	175		80	66	67	61	9.60	10.05	10.40	9.60	10.05	10.40	9.60	10.05	10.40	8.28	10.05	10.40	7.44	10.05	10.40	4.00	9.11	10.13	4.00	4.00	4.00
Titan Board DFH1IR	12.5	83	175		80	66	68	62	9.60	10.05	10.40	9.60	10.05	10.40	9.60	10.05	10.40	8.28	10.05	10.40	7.44	10.05	10.40	4.00	9.11	10.13	4.00	4.00	4.00
Blue Board GMDFH1IR	12.5	80	175		80	66	67	62	9.60	10.05	10.40	9.60	10.05	10.40	9.60	10.05	10.40	8.28	10.05	10.40	7.44	10.05	10.40	4.00	9.11	10.13	4.00	4.00	4.00
DF	15	83	190		80	65	66	60	9.60	10.05	10.40	9.60	10.05	10.40	9.60	10.05	10.40	8.28	10.05	10.40	7.44	10.05	10.40	4.00	9.11	10.13	4.00	8.00	8.00
DFH2	15	83	190		80	65	66	60	9.60	10.05	10.40	9.60	10.05	10.40	9.60	10.05	10.40	8.28	10.05	10.40	7.44	10.05	10.40	4.00	9.11	10.13	4.00	8.00	8.00
A	12.5	61	200	CW 125	100	62	64	58	11.00	11.50	11.85	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
H2	12.5	61	200		100	62	64	58	11.00	11.50	11.85	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DF	12.5	70	200		100	64	66	62	11.00	11.50	11.85	11.00	11.50	11.85	11.00	11.50	11.85	9.71	11.50	11.85	8.76	11.50	11.85	4.00	10.71	11.85	4.00	4.00	4.00
DFH2	12.5	70	200		100	64	66	62	11.00	11.50	11.85	11.00	11.50	11.85	11.00	11.50	11.85	9.71	11.50	11.85	8.76	11.50	11.85	4.00	10.71	11.85	4.00	4.00	4.00
Sound Comfort Extra DFIR	12.5	79	200		100	66	67	62	11.00	11.50	11.85	11.00	11.50	11.85	11.00	11.50	11.85	9.71	11.50	11.85	8.76	11.50	11.85	4.00	10.71	11.85	4.00	4.00	4.00
Titan Board DFH1IR	12.5	85	200		100	67	68	63	11.00	11.50	11.85	11.00	11.50	11.85	11.00	11.50	11.85	9.71	11.50	11.85	8.76	11.50	11.85	4.00	10.71	11.85	4.00	4.00	4.00
Blue Board GMDFH1IR	12.5	82	200		100	66	67	62	11.00	11.50	11.85	11.00	11.50	11.85	11.00	11.50	11.85	9.71	11.50	11.85	8.76	11.50	11.85	4.00	10.71	11.85	4.00	4.00	4.00
DF	15	85	215		100	65	66	61	11.00	11.50	11.85	11.00	11.50	11.85	11.00	11.50	11.85	9.71	11.50	11.85	8.76	11.50	11.85	4.00	10.71	11.85	4.00	8.00	8.00
DFH2	15	85	215		100	65	66	61	11.00	11.50	11.85	11.00	11.50	11.85	11.00	11.50	11.85	9.71	11.50	11.85	8.76	11.50	11.85	4.00	10.71	11.85	4.00	8.00	8.00
A	12.5	61	225	CW 150	120	63	64	58	12.00	12.00	12.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
H2	12.5	61	225		120	63	64	58	12.00	12.00	12.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DF	12.5	70	225		120	65	66	60	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	11.11	12.00	12.00	10.04	12.00	12.00	4.00	12.00	12.00	4.00	4.00	4.00
DFH2	12.5	70	225		120	65	66	60	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	11.11	12.00	12.00	10.04	12.00	12.00	4.00	12.00	12.00	4.00	4.00	4.00
Sound Comfort Extra DFIR	12.5	79	225		120	6																							

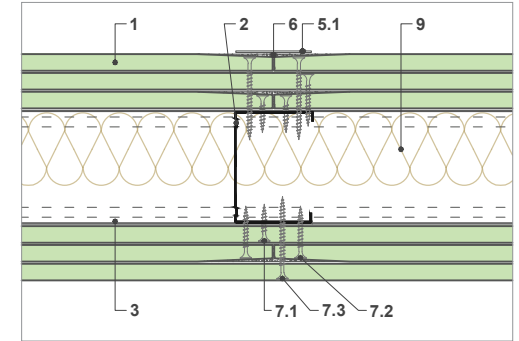
V01 Upper connection to solid concrete element



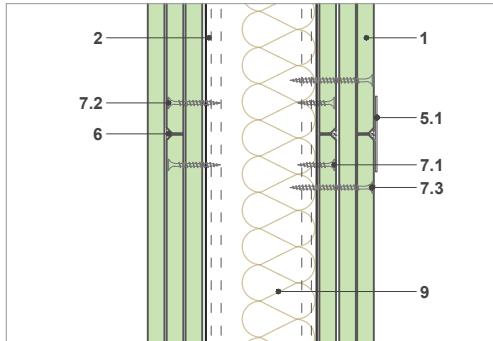
H01 Connection to solid concrete wall



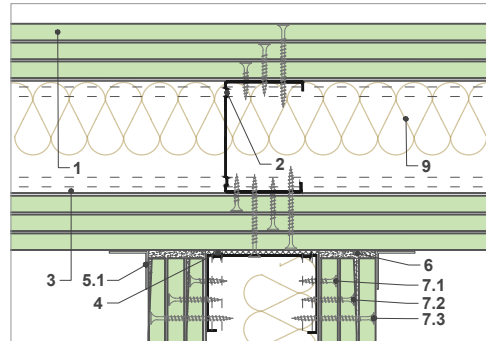
H02 Vertical Joint



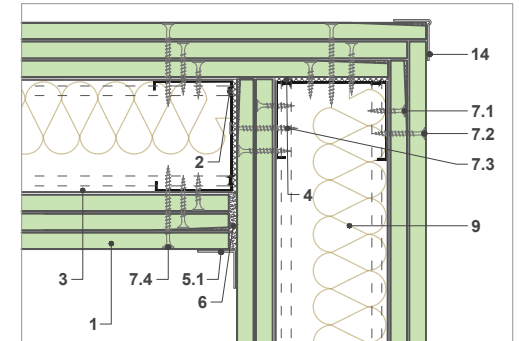
V02 Horizontal joint



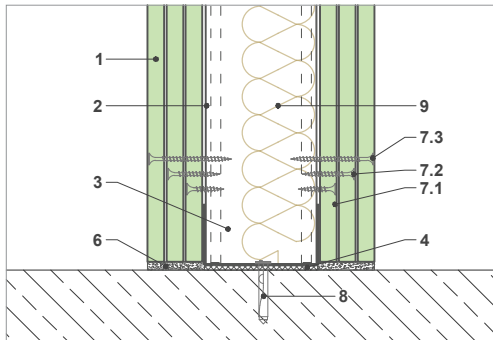
H03 T-intersection



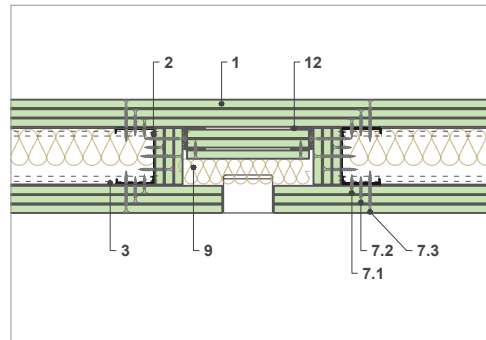
H04.2 Corner intersection W1-3 with W1-2



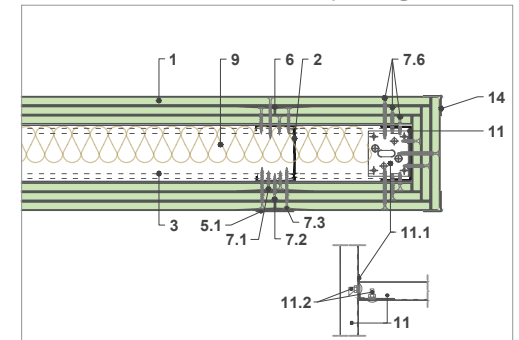
V03 Lower connection to solid concrete element



H12 Electrical outlet



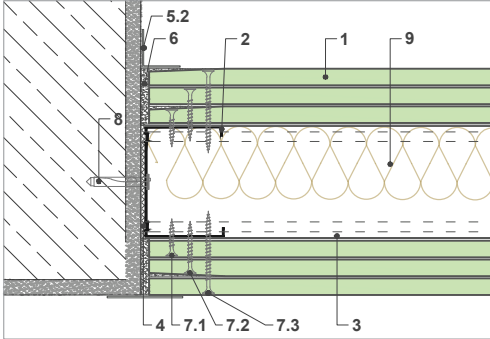
H11 Frame opening with UA



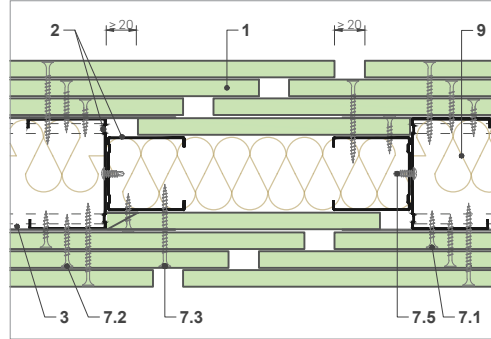
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

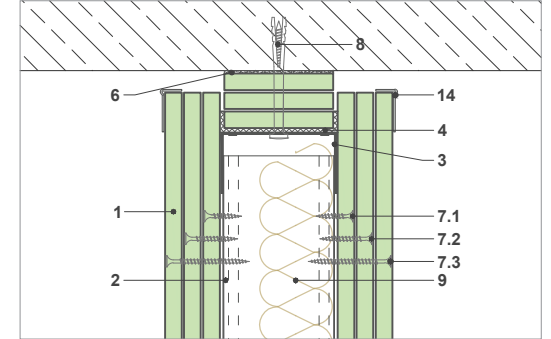
H07 Connection with solid wall



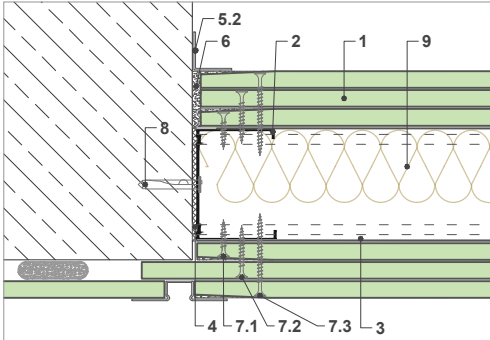
H05 Dilatation gap



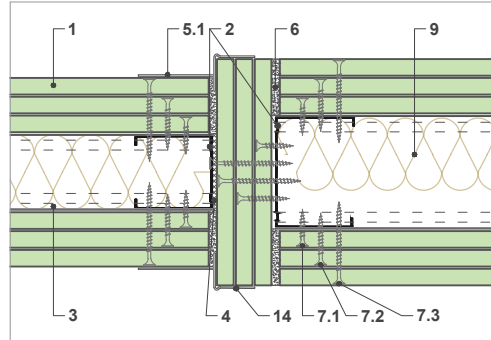
V04 Upper connection to solid ceiling



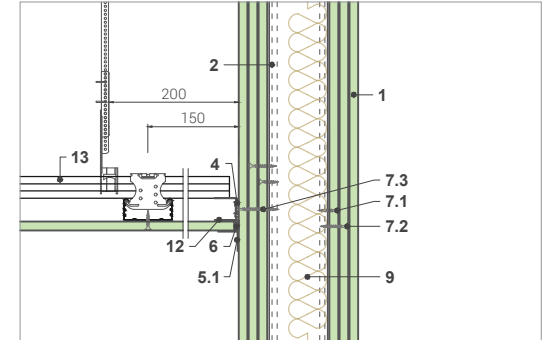
H08.1 Connection W1-3 with L0-1



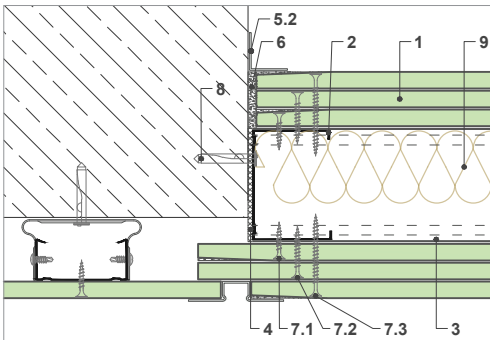
H06 Transition between walls with varying widths



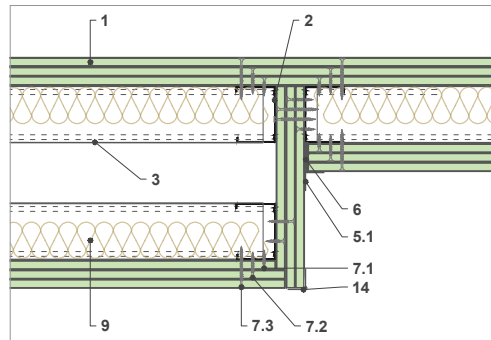
V05 Upper connection with suspended ceiling



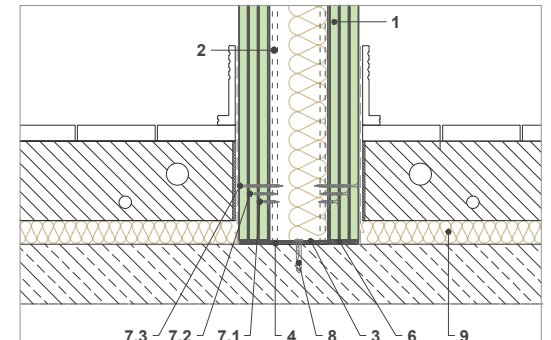
H08.2 Connection W1-3 with L1-1



H09 Connection W1-3 with W2-3B



V03.2 Lower connection to flooring system



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

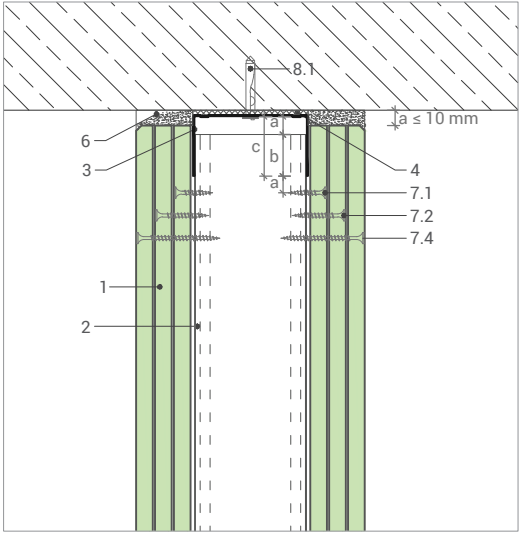
Details for high walls W1-3 - Upper connection to solid ceiling, vertical section

The choice of upper connection and type of UW profile depends on the height of the wall and **a** - the expected maximum deviation of the system.
Categories of upper connections available:

CERTIFIED SYSTEM COMPONENTS Technogips Pro
1. Gypsum Board 12.5 mm
2. Premium Profile CW
3. Premium Profile UW
4. Acoustic Tape
6. Joint Filler FUGA
7.1. Drywall Screw 3.5 x 25 mm
7.2. Drywall Screw 3.5 x 35 mm
7.4. Drywall Screw 3.5 x 55 mm
8.1. Ceiling Anchor 6 x 40, 60, 80 mm
8.2. Concrete Screwbolt
8.3. Bolt Anchor
9. Insulation Strip

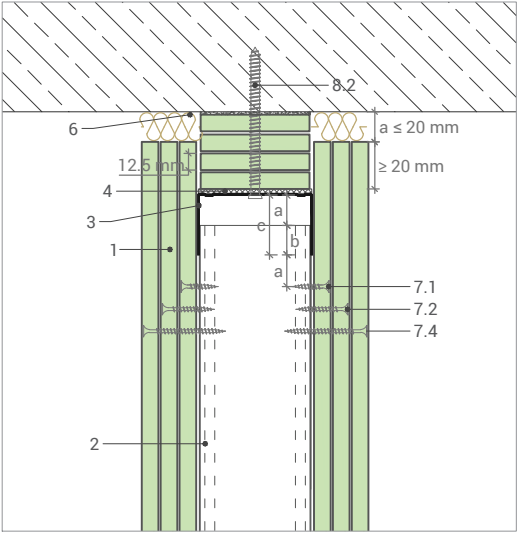
Detail
Height (m)
Deflection - a (mm)
UW profile - section
UW profile - thickness

V01.1 Height ≤ 4 m



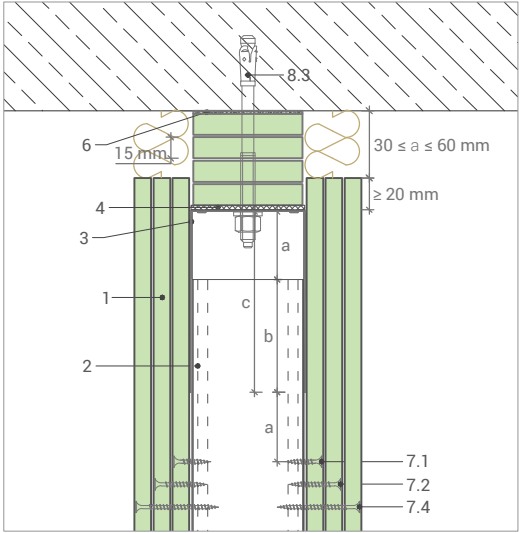
V01.1
≤ 4 m
a ≤ 10 mm
Standard UW, flange c=40 mm
0.6 mm

V01.2 Height ≤ 6 m



V01.2
≤ 6 m
a ≤ 20 mm
Standard UW, flange c=40 mm
0.6 mm

V01.3 Height ≤ 12 m

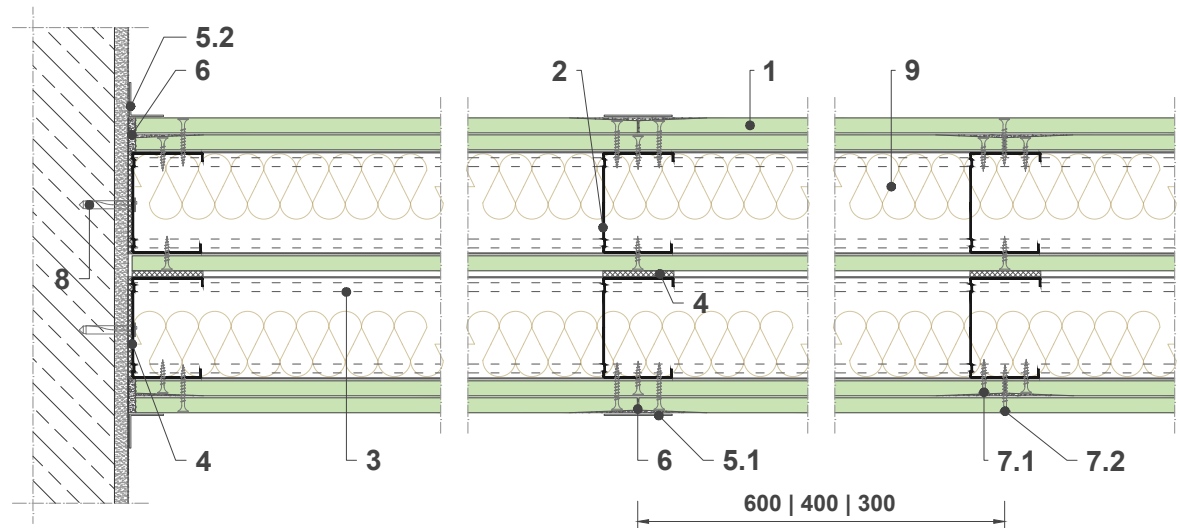


V01.3
≤ 12 m
30 ≤ a ≤ 60 mm
Reinforced UW, flange c=120 mm
1.0 mm

The specified maximum deflection of the system (**a**) includes the total displacement of the floor slabs and the expansion of the CW profile in the case of a fire.
With an expected deflection (**a**) > 70 mm, a special connection should be specified by request.

PARTITION WALLS

Technogips Pro W2-2-1



Material Consumption ⁽¹⁾ per 1 m ²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	5.0	5.0	5.0
2	Premium Profile Z140 CW 0.6 mm	m'	4.0	5.6	7.6
3	Premium Profile Z140 UW 0.6 mm	m'	1.4	1.4	1.4
4	Acoustic Tape @ the peripheral profiles	m'	2.4	2.4	2.4
5.1	Joint Tape @ inner joints ⁽²⁾	m'	1.9	1.9	1.9
5.2	Separation Strip TrennFix @ the peripheral joints	m'	1.7	1.7	1.7
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	1.2	1.2	1.2
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	22.0	25.0	37.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15 mm boards	pcs	30.0	45.0	60.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	3.2	3.2	3.2
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	2.0	2.0	2.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	1.7	1.7	1.7

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 7.2 m²/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 1.4 kg/m² for jointing and 1.0 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic.

 30 45 60 90 120 180

 Air-borne Sound Insulation
RW_{max} 66 dB

 Self-Weight
up to 71 kg/m²

 Wall Thickness
165 | 215 | 265 mm

 Heights
up to 6.80 m

Board		Wall Weight	Wall Thickness	Profile	Insulation	Air-borne Sound Insulation R _w ⁽²⁾			Fire Resistance (without insulation)													
Type	Thickness			Cavity	Thickness	R _w Glass Wool	R _w Stone Wool	R _w Without Insulation	EI 0 ⁽³⁾		EI 30		EI 45		EI 60		EI 90		EI 120		EI 180	
	minimum				without insulation				minimum	Profile Spacing, mm												
	mm	kg/m ²	mm	mm	mm	dB	dB	dB	600	400	600	400	600	400	600	400	600	400	600	400	600	400
Maximum permissible heights depending on the type of cladding, m ⁽¹⁾																						
A	2x12.5 + 12.5	51	165	CW 50	2x40	58	58	49	4.50	4.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
H2	2x12.5 + 12.5	51	165		2x40	58	58	49	4.50	4.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DF	2x12.5 + 12.5	58	165		2x40	61	61	52	4.50	4.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DFH2	2x12.5 + 12.5	58	165		2x40	61	61	52	4.50	4.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
Sound Comfort Extra DFIR	2x12.5 + 12.5	66	165		2x40	63	63	54	4.50	4.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
Titan Board DFH1IR	2x12.5 + 12.5	71	165		2x40	64	64	55	4.50	4.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
Blue Board GMDFH1IR	2x12.5 + 12.5	68	165		2x40	64	64	55	4.50	4.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DF	2x15 + 15	71	180		2x40	63	63	55	4.50	4.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DFH2	2x15 + 15	71	180		2x40	63	63	55	4.50	4.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
A	2x12.5 + 12.5	51	215	CW 75	2x60	61	61	53	5.80	6.00	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
H2	2x12.5 + 12.5	51	215		2x60	61	61	53	5.80	6.00	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DF	2x12.5 + 12.5	58	215		2x60	63	63	55	5.80	6.00	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DFH2	2x12.5 + 12.5	58	215		2x60	63	63	55	5.80	6.00	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
Sound Comfort Extra DFIR	2x12.5 + 12.5	66	215		2x60	65	65	58	5.80	6.00	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
Titan Board DFH1IR	2x12.5 + 12.5	71	215		2x60	65	65	58	5.80	6.00	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
Blue Board GMDFH1IR	2x12.5 + 12.5	68	215		2x60	65	65	58	5.80	6.00	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DF	2x15 + 15	71	230		2x60	64	64	58	5.80	6.00	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DFH2	2x15 + 15	71	230		2x60	64	64	58	5.80	6.00	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
A	2x12.5 + 12.5	51	265	CW 100	2x80	61	61	54	6.50	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
H2	2x12.5 + 12.5	51	265		2x80	61	61	54	6.50	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DF	2x12.5 + 12.5	58	265		2x80	63	63	57	6.50	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DFH2	2x12.5 + 12.5	58	265		2x80	63	63	57	6.50	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
Sound Comfort Extra DFIR	2x12.5 + 12.5	66	265		2x80	65	65	59	6.50	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
Titan Board DFH1IR	2x12.5 + 12.5	71	265		2x80	66	66	60	6.50	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
Blue Board GMDFH1IR	2x12.5 + 12.5	68	265		2x80	66	66	61	6.50	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DF	2x15 + 15	71	280		2x80	64	64	60	6.50	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				
DFH2	2x15 + 15	71	280		2x80	64	64	60	6.50	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*				

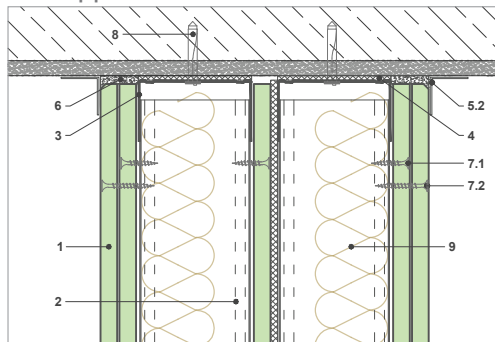
(1) Permissible heights according to DIN 18183 and additional cold static calculations.

(2) R_w calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance r > 5 kPa s/m².

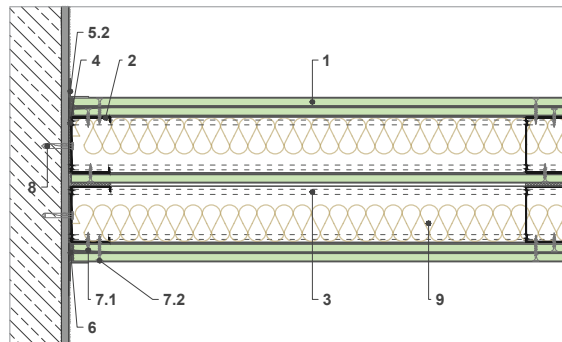
(3) Permissible heights without fire protection

* Heights are achieved with insulation layer thickness of 50 mm and density min. 40 kg/m³, in acc. with EN 13162

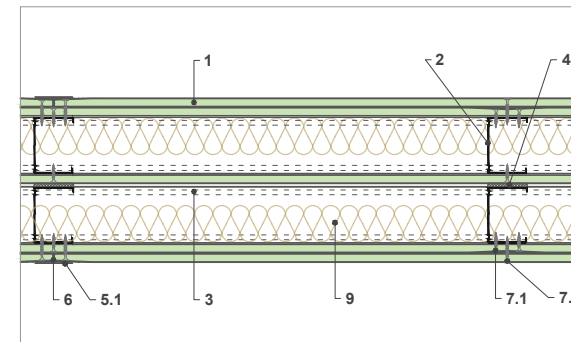
V01 Upper connection to solid concrete element



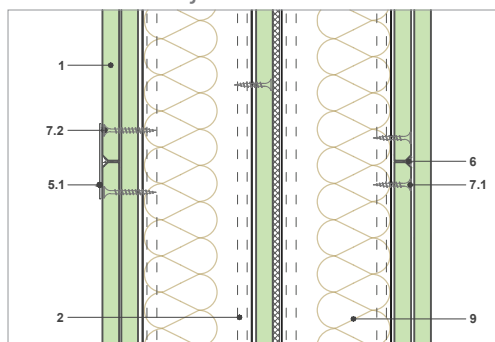
H01 Connection to solid concrete wall



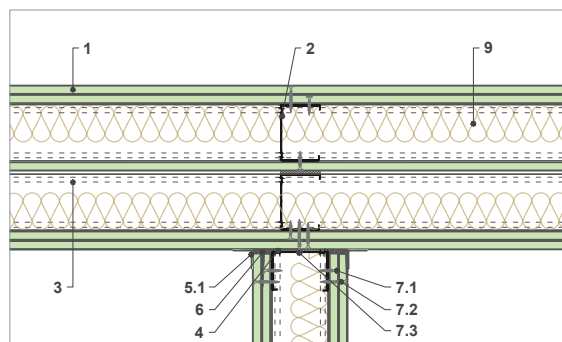
H02 Vertical Joint



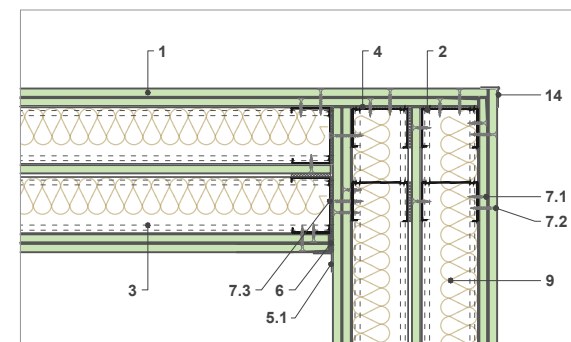
V02 Horizontal joint



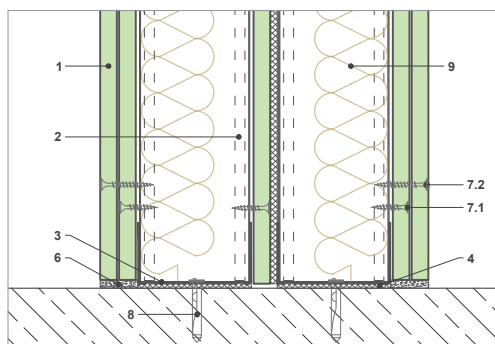
H03 T-intersection



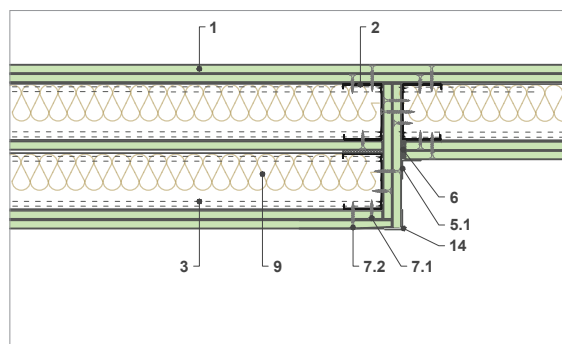
H04.2 Corner intersection W2-2-1 with W2-2-1



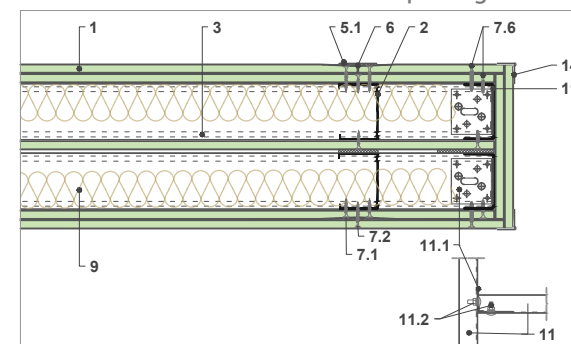
V03 Lower connection to solid concrete element



H09 Connection W2-2-1 with W1-2



H11 Frame opening with UA



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

Details for high walls W2-2-1 - Upper connection to solid ceiling, vertical section

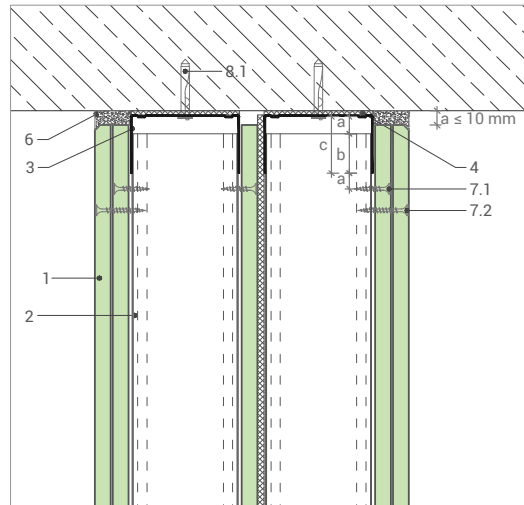
The choice of upper connection and type of UW profile depends on the height of the wall and a - the expected maximum deviation of the system.

Categories of upper connections available:

CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board 12.5 mm
2. Premium Profile CW
3. Premium Profile UW
4. Acoustic Tape
6. Joint Filler FUGA
- 7.1. Drywall Screw 3.5 x 25 mm
- 7.2. Drywall Screw 3.5 x 35 mm
- 7.4. Drywall Screw 3.5 x 55 mm
- 8.1. Ceiling Anchor 6 x 40, 60, 80 mm
- 8.2. Concrete Screwbolt
- 8.3. Bolt Anchor
9. Insulation Strip

V01.1 Height ≤ 4 m



V01.1

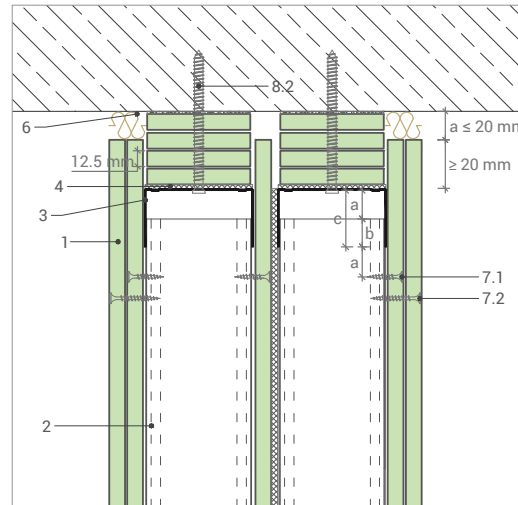
≤ 4 m

$a \leq 10$ mm

Standard UW, flange c=40 mm

0.6 mm

V01.2 Height ≤ 6 m



V01.2

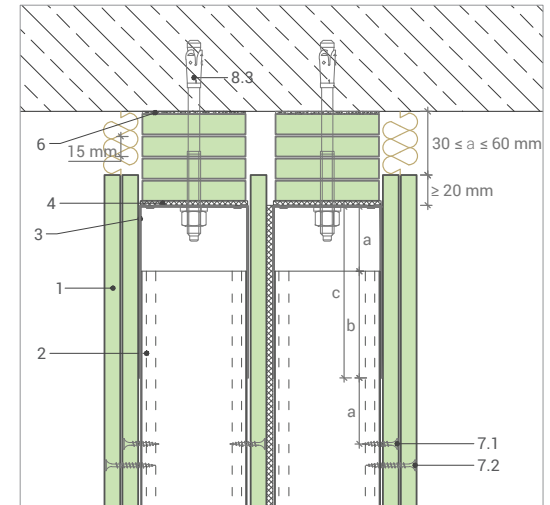
≤ 6 m

$a \leq 20$ mm

Standard UW, flange c=40 mm

0.6 mm

V01.3 Height ≤ 12 m



V01.3

≤ 12 m

$30 \leq a \leq 60$ mm

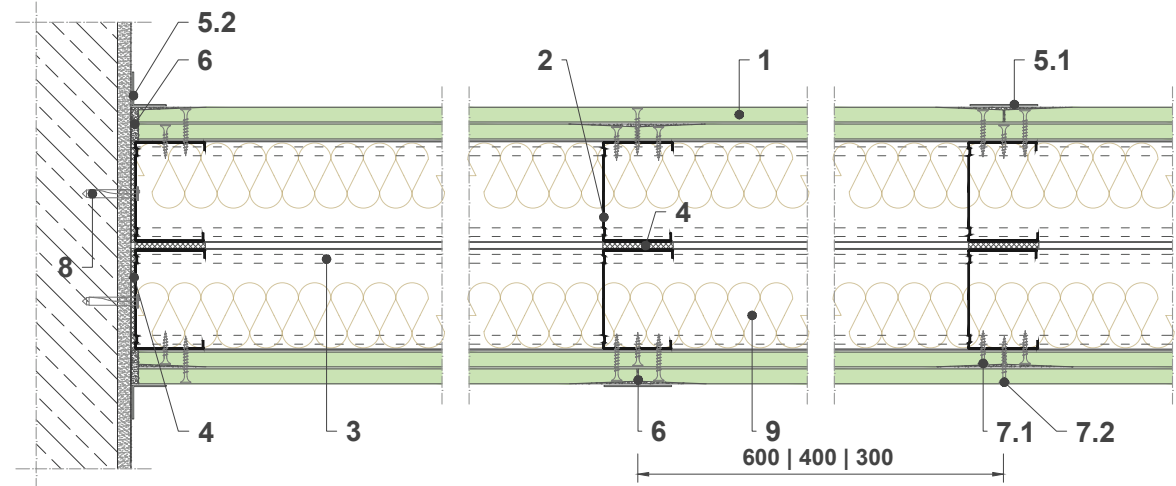
Reinforced UW, flange c=120 mm

1.0 mm

The specified maximum deflection of the system (**a**) includes the total displacement of the floor slabs and the expansion of the CW profile in the case of a fire. With an expected deflection (**a**) > 70 mm, a special connection should be specified by request.

PARTITION WALLS

Technogips Pro W2-2A



 30 45 60 90 120 180

 Air-borne Sound Insulation
R_Wmax 72 dB

 Self-Weight
up to 57 kg/m²

 Wall Thickness
155 | 205 | 255 mm

 Heights
up to 7.20 m

Material Consumption ⁽¹⁾ per 1 m ²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	4.0	4.0	4.0
2	Premium Profile Z140 CW 0.6 mm	m'	4.0	5.6	7.6
3	Premium Profile Z140 UW 0.6 mm	m'	1.4	1.4	1.4
4	Acoustic Tape @ the peripheral profiles	m'	2.4	2.4	2.4
5.1	Joint Tape @ inner joints ⁽²⁾	m'	1.9	1.9	1.9
5.2	Separation Strip TrennFix @ the peripheral joints	m'	1.7	1.7	1.7
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	1.2	1.2	1.2
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	15.0	18.0	30.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15 mm boards	pcs	30.0	45.0	60.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	3.2	3.2	3.2
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	2.0	2.0	2.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	1.7	1.7	1.7

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 7.2 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 1.4 kg/m² for jointing and 1.0 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic.

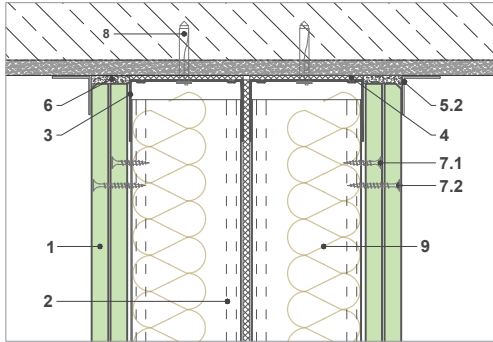
Board		Wall Weight	Wall Thickness	Profile	Insulation	Air-borne Sound Insulation R _w ⁽²⁾			Fire Resistance (without insulation)																							
Type	Thickness			Cavity	Thickness	R _w Glass Wool	R _w Stone Wool	R _w Without Insulation	EI 0 ³⁾			EI 30			EI 45			EI 60			EI 90			EI 120			EI 180					
	minimum				minimum				Profile Spacing, mm																							
	mm	kg/m ²	mm	mm	mm	dB	dB	dB	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300			
Maximum permissible heights depending on the type of cladding, m ⁽¹⁾																																
A	2x12.5	42	155	2 x CW 50	2x40	62	63	52	4.50	4.75	5.40																					
H2	2x12.5	42	155		2x40	62	63	52	4.50	4.75	5.40																					
DF	2x12.5	47	155		2x40	63	64	54	4.50	4.75	5.40																					
DFH2	2x12.5	47	155		2x40	63	64	54	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
Sound Comfort Extra DFIR	2x12.5	53	155		2x40	64	65	57	4.50	4.75	5.40																					
Titan Board DFH1IR	2x12.5	57	155		2x40	65	66	59	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
Blue Board GMDFH1IR	2x12.5	55	155		2x40	64	65	58	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
DF	2x15	57	165		2x40	63	64	57	4.50	4.75	5.40																					
DFH2	2x15	57	165		2x40	63	64	57	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
A	2x12.5	42	205	2 x CW 75	2x60	63	64	54	5.80	6.00	6.50																					
H2	2x12.5	42	205		2x60	63	64	54	5.80	6.00	6.50																					
DF	2x12.5	47	205		2x60	64	65	56	5.80	6.00	6.50																					
DFH2	2x12.5	47	205		2x60	64	65	56	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
Sound Comfort Extra DFIR	2x12.5	53	205		2x60	65	66	59	5.80	6.00	6.50																					
Titan Board DFH1IR	2x12.5	57	205		2x60	67	68	60	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
Blue Board GMDFH1IR	2x12.5	55	205		2x60	65	66	59	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
DF	2x15	57	215		2x60	64	65	59	5.80	6.00	6.50																					
DFH2	2x15	57	215		2x60	64	65	59	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
A	2x12.5	42	255	2 x CW 100	2x80	64	65	55	6.50	6.80	7.20																					
H2	2x12.5	42	255		2x80	64	65	55	6.50	6.80	7.20																					
DF	2x12.5	47	255		2x80	68	69	57	6.50	6.80	7.20																					
DFH2	2x12.5	47	255		2x80	68	69	57	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						
Sound Comfort Extra DFIR	2x12.5	53	255		2x80	69	71	59	6.50	6.80	7.20																					
Titan Board DFH1IR	2x12.5	57	255		2x80	71	72	61	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						
Blue Board GMDFH1IR	2x12.5	55	255		2x80	66	67	60	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						
DF	2x15	57	265		2x80	68	69	59	6.50	6.80	7.20																					
DFH2	2x15	57	265		2x80	68	69	59	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						

(1) Permissible heights according to DIN 18183 and additional cold static calculations.

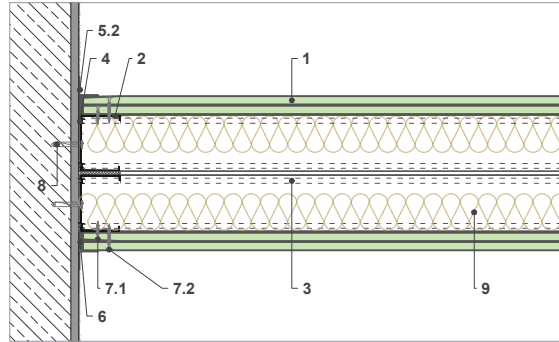
(2) R_w calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance r > 5 kPa s/m².

(3) Permissible heights without fire protection

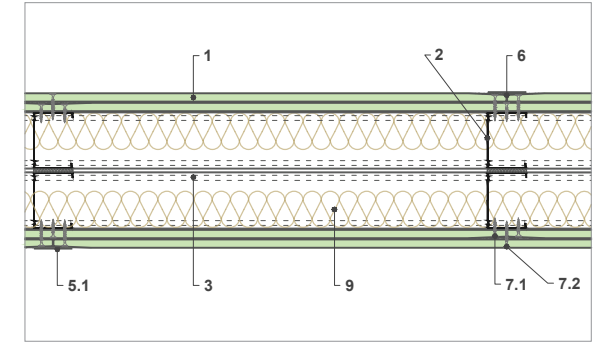
V01 Upper connection to solid concrete element



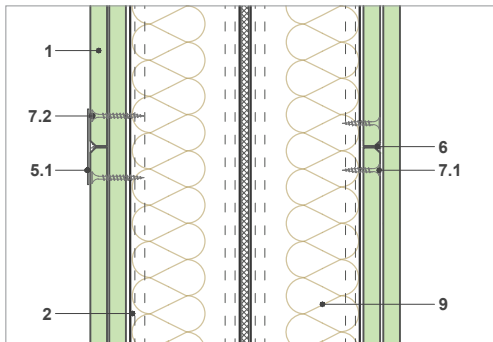
H01 Connection to solid concrete wall



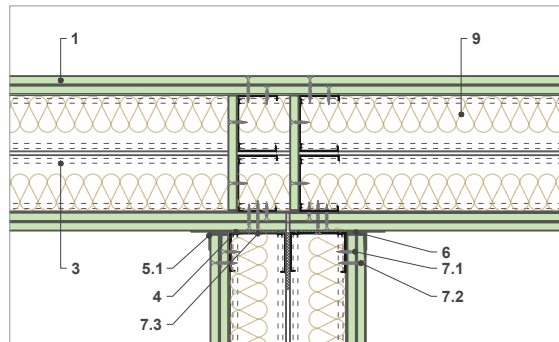
H02 Vertical Joint



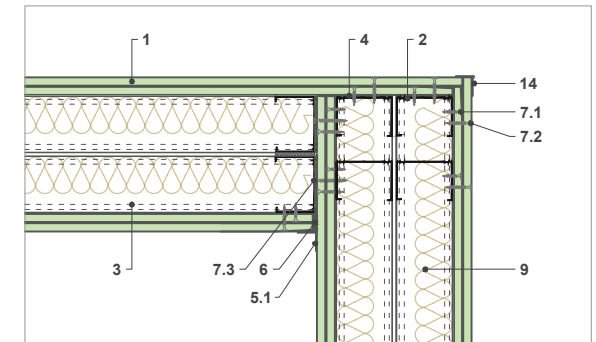
V02 Horizontal joint



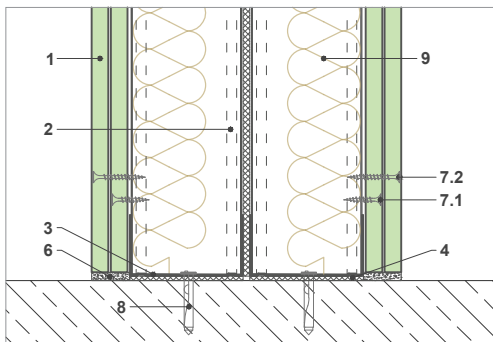
H03 T-intersection



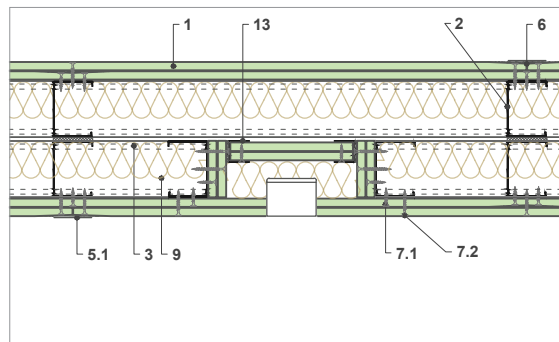
H04.2 Corner intersection W2-2A with W2-2A



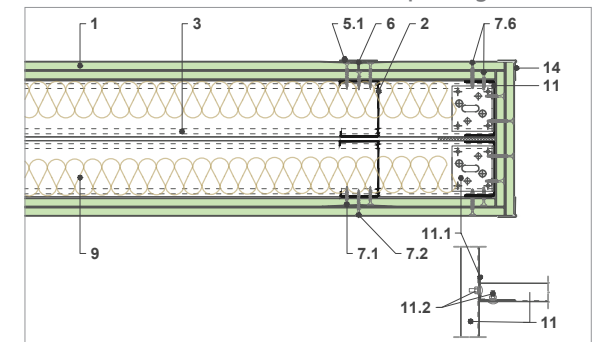
V03 Lower connection to solid concrete element



H14 Electrical outlet



H11 Frame opening with UA



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

Details for high walls W2-2A - Upper connection to solid ceiling, vertical section

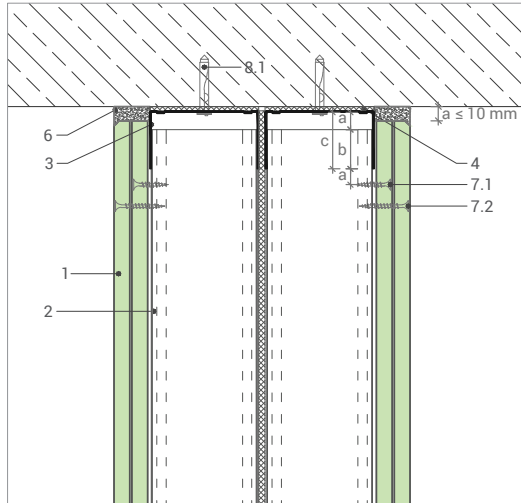
The choice of upper connection and type of UW profile depends on the height of the wall and **a** - the expected maximum deviation of the system.

Categories of upper connections available:

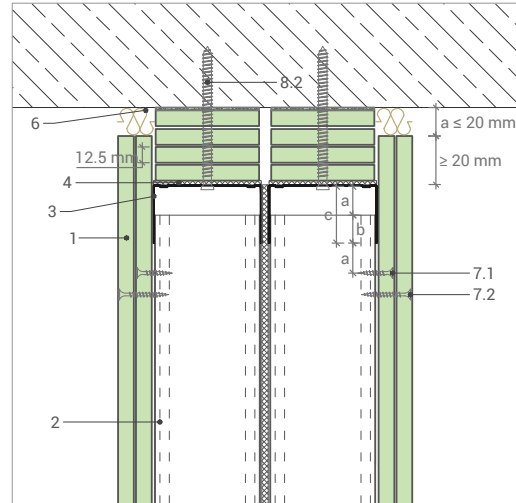
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board 12.5 mm
2. Premium Profile CW
3. Premium Profile UW
4. Acoustic Tape
6. Joint Filler FUGA
- 7.1. Drywall Screw 3.5 x 25 mm
- 7.2. Drywall Screw 3.5 x 35 mm
- 7.4. Drywall Screw 3.5 x 55 mm
- 8.1. Ceiling Anchor 6 x 40, 60, 80 mm
- 8.2. Concrete Screwbolt
- 8.3. Bolt Anchor
9. Insulation Strip

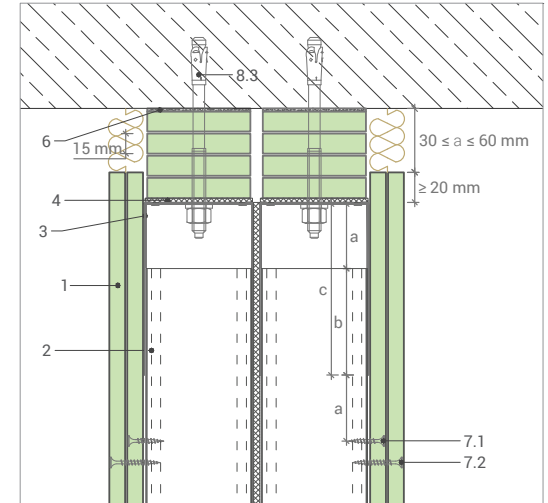
V01.1 Height ≤ 4 m



V01.2 Height ≤ 6 m



V01.3 Height ≤ 12 m



Detail
Height (m)
Deflection - a (mm)
UW profile - section
UW profile - thickness

V01.1

≤ 4 m
$a \leq 10$ mm
Standard UW, flange c=40 mm
0.6 mm

V01.2

≤ 6 m
$a \leq 20$ mm
Standard UW, flange c=40 mm
0.6 mm

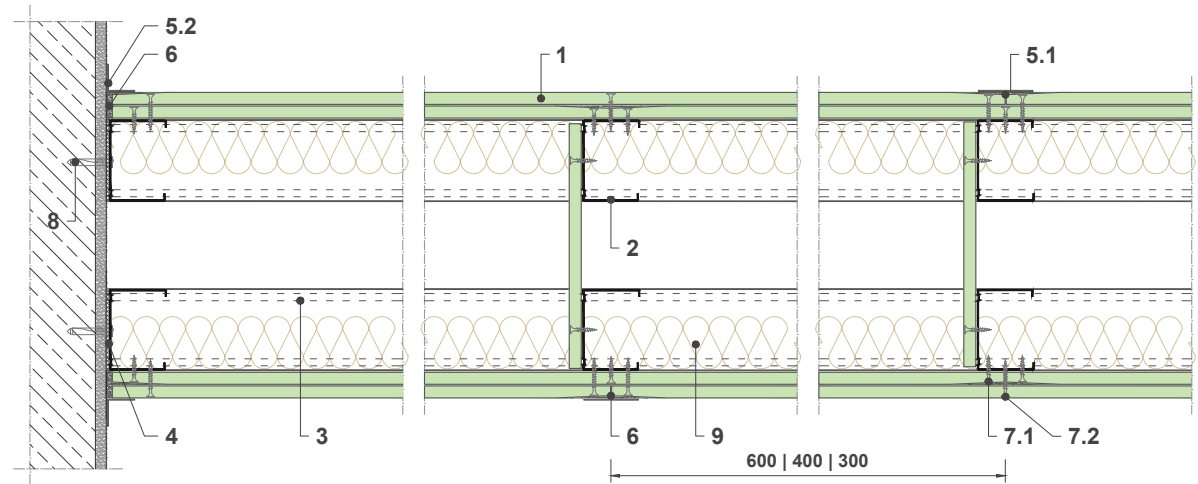
V01.3

≤ 12 m
$30 \leq a \leq 60$ mm
Reinforced UW, flange c=120 mm
1.0 mm

The specified maximum deflection of the system (**a**) includes the total displacement of the floor slabs and the expansion of the CW profile in the case of a fire. With an expected deflection (**a**) > 70 mm, a special connection should be specified by request.

PARTITION WALLS

Technogips Pro W2-2B



 30 45 60 90 120 180

 Air-borne Sound Insulation
R_Wmax 63 dB

 Self-weight
up to 64 kg/m²

 Wall Thickness
155 ÷ 800 mm

 Heights
up to 7.20 m

Material Consumption ⁽¹⁾ per 1 m ²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	4.2	4.3	4.4
2	Premium Profile Z140 CW 0.6 mm	m'	4.0	5.6	7.6
3	Premium Profile Z140 UW 0.6 mm	m'	1.4	1.4	1.4
4	Acoustic Tape @ the peripheral profiles	m'	2.4	2.4	2.4
5.1	Joint Tape @ inner joints ⁽²⁾	m'	1.9	1.9	1.9
5.2	Separation Strip TrennFix @ the peripheral joints	m'	1.7	1.7	1.7
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	1.2	1.2	1.2
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	15.0	18.0	30.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15 mm boards	pcs	30.0	45.0	60.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	3.2	3.2	3.2
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	2.0	2.0	2.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	1.7	1.7	1.7

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 7.2 m²/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 1.4 kg/m² for jointing and 1.0 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic.

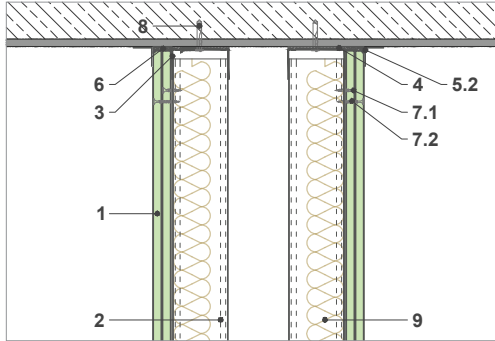
Board		Wall Weight	Wall Thickness	Profile	Insulation	Air-borne Sound Insulation R _w ⁽²⁾			Fire Resistance (without insulation)																							
Type	Thickness			Cavity	Thickness	R _w Glass Wool	R _w Stone Wool	R _w Without Insulation	EI 0 ⁽³⁾						EI 30			EI 45			EI 60			EI 90			EI 120			EI 180		
	minimum				minimum				Profile Spacing, mm																							
	mm	kg/m ²	mm	mm	mm	dB	dB	dB	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300			
Maximum permissible heights depending on the type of cladding, m ⁽¹⁾																																
A	2x12.5	46	155 ÷ 600	2 x CW 50	2x40	54	55	50	4.50	4.75	5.40																					
H2	2x12.5	46	155 ÷ 600		2x40	54	55	50	4.50	4.75	5.40																					
DF	2x12.5	53	155 ÷ 600		2x40	55	56	51	4.50	4.75	5.40																					
DFH2	2x12.5	53	155 ÷ 600		2x40	55	56	51	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
Sound Comfort Extra DFIR	2x12.5	60	155 ÷ 600		2x40	58	59	54	4.50	4.75	5.40																					
Titan Board DFH1IR	2x12.5	64	155 ÷ 600		2x40	60	61	56	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
Blue Board GMDFH1IR	2x12.5	62	155 ÷ 600		2x40	59	60	55	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
DF	2x15	64	165 ÷ 600		2x40	58	59	54	4.50	4.75	5.40																					
DFH2	2x15	64	165 ÷ 600		2x40	58	59	54	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
A	2x12.5	42	205 ÷ 600	2 x CW 75	2x60	54	55	50	5.80	6.00	6.50																					
H2	2x12.5	42	205 ÷ 600		2x60	54	55	50	5.80	6.00	6.50																					
DF	2x12.5	47	205 ÷ 600		2x60	56	57	52	5.80	6.00	6.50																					
DFH2	2x12.5	47	205 ÷ 600		2x60	56	57	52	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
Sound Comfort Extra DFIR	2x12.5	53	205 ÷ 600		2x60	58	59	54	5.80	6.00	6.50																					
Titan Board DFH1IR	2x12.5	57	205 ÷ 600		2x60	60	61	56	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
Blue Board GMDFH1IR	2x12.5	55	205 ÷ 600		2x60	59	60	55	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
DF	2x15	57	215 ÷ 600		2x60	58	59	54	5.80	6.00	6.50																					
DFH2	2x15	57	215 ÷ 600		2x60	58	59	54	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
A	2x12.5	42	255 ÷ 800	2 x CW 100	2x80	56	57	52	6.50	6.80	7.20																					
H2	2x12.5	42	255 ÷ 800		2x80	56	57	52	6.50	6.80	7.20																					
DF	2x12.5	47	350 ÷ 800		2x80	58	59	54	6.50	6.80	7.20																					
DFH2	2x12.5	47	350 ÷ 800		2x80	58	59	54	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						
Sound Comfort Extra DFIR	2x12.5	53	350 ÷ 800		2x80	60	61	56	6.50	6.80	7.20																					
Titan Board DFH1IR	2x12.5	57	255 ÷ 800		2x80	62	63	58	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						
Blue Board GMDFH1IR	2x12.5	55	255 ÷ 800		2x80	61	62	57	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						
DF	2x15	57	265 ÷ 800		2x80	60	61	56	6.50	6.80	7.20																					
DFH2	2x15	57	265 ÷ 800		2x80	60	61	56	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						

(1) Permissible heights according to DIN 18183 and additional cold static calculations.

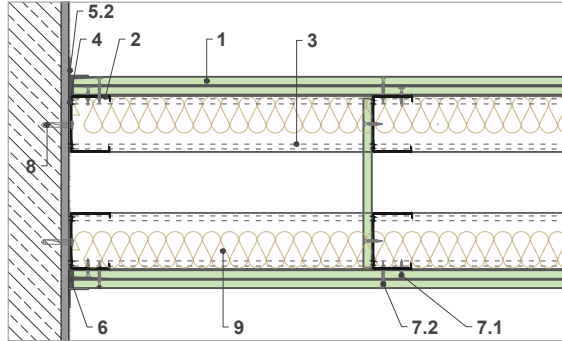
(2) R_w calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance r > 5 kPa s/m².

(3) Permissible heights without fire protection

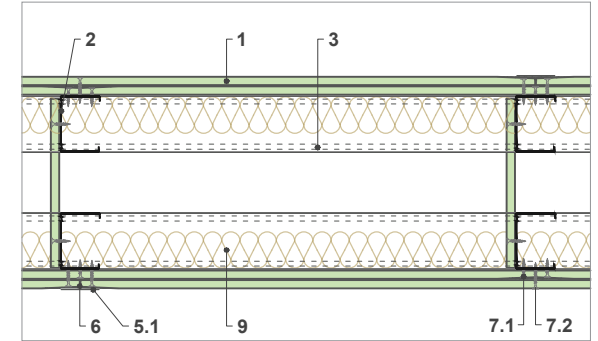
V01 Upper connection to solid concrete element



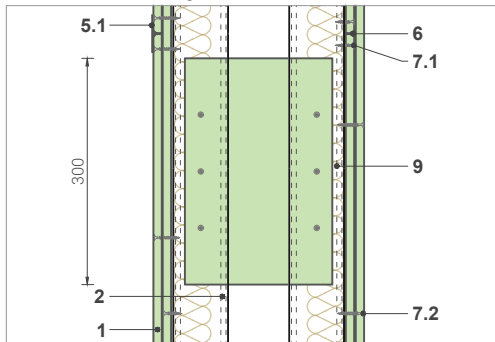
H01 Connection to solid concrete wall



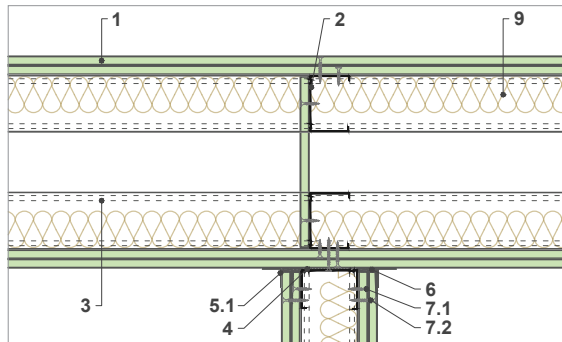
H02 Vertical Joint



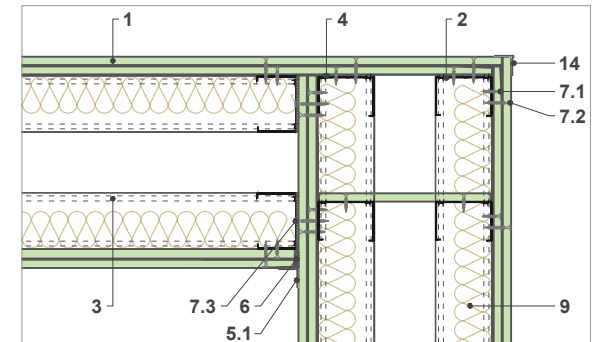
V02 Horizontal joint



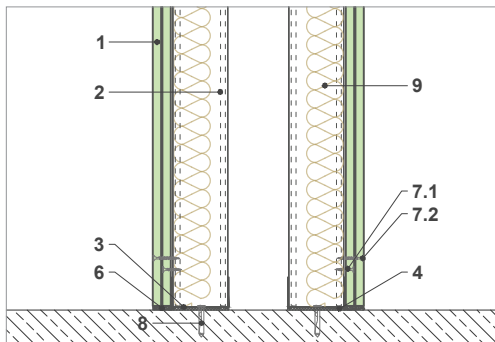
H03 T-intersection



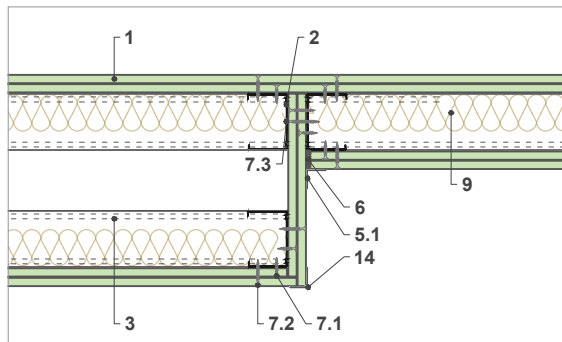
H04.2 Corner intersection W2-2B with W2-2B



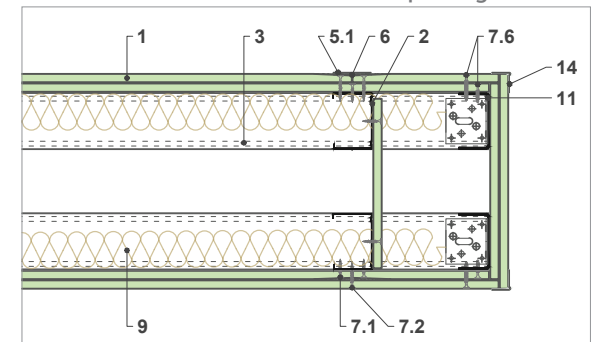
V03 Lower connection to solid concrete element



H09 Transition between W2-2B and W1-2



H11 Frame opening with UA



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

Details for high walls W2-2B - Upper connection to solid ceiling, vertical section

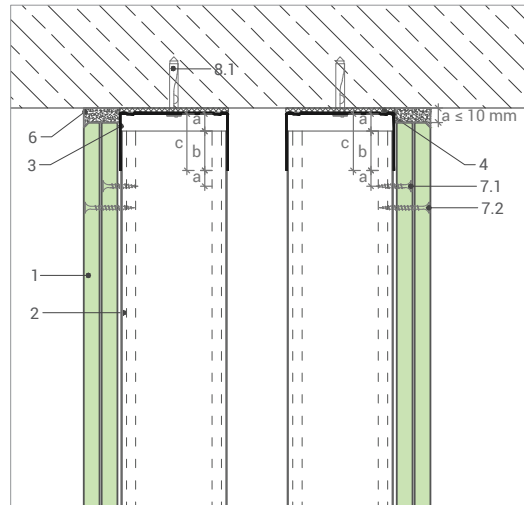
The choice of upper connection and type of UW profile depends on the height of the wall and **a** - the expected maximum deviation of the system.

Categories of upper connections available:

CERTIFIED SYSTEM COMPONENTS Technogips Pro	
1.	Gypsum Board 12.5 mm
2.	Premium Profile CW
3.	Premium Profile UW
4.	Acoustic Tape
6.	Joint Filler FUGA
7.1.	Drywall Screw 3.5 x 25 mm
7.2.	Drywall Screw 3.5 x 35 mm
7.4.	Drywall Screw 3.5 x 55 mm
8.1.	Ceiling Anchor 6 x 40, 60, 80 mm
8.2.	Concrete Screwbolt
8.3.	Bolt Anchor
9.	Insulation Strip

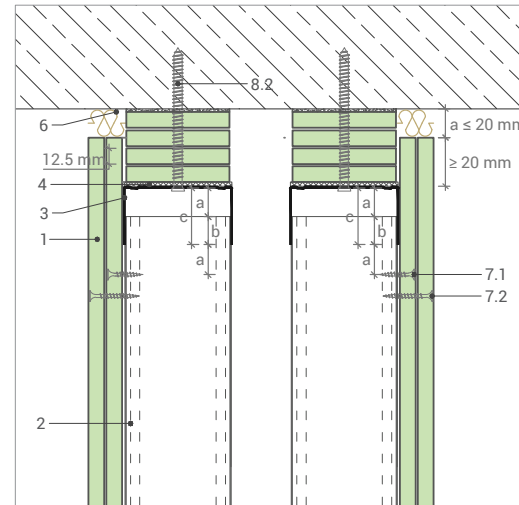
Detail
Height (m)
Deflection - a (mm)
UW profile - section
UW profile - thickness

V01.1 Height ≤ 4 m



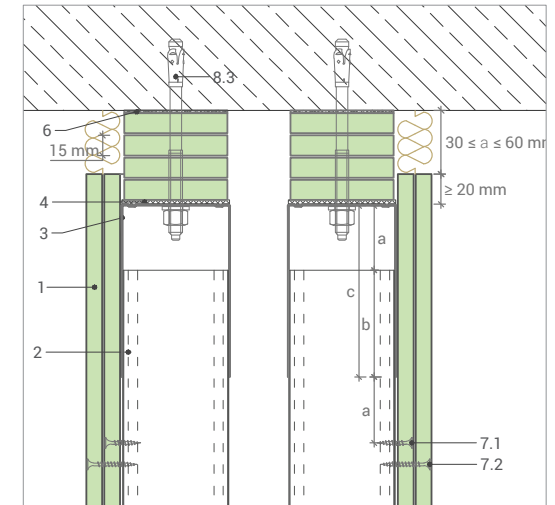
V01.1
≤ 4 m
$a \leq 10$ mm
Standard UW, flange c=40 mm
0.6 mm

V01.2 Height ≤ 6 m



V01.2
≤ 6 m
$a \leq 20$ mm
Standard UW, flange c=40 mm
0.6 mm

V01.3 Height ≤ 12 m

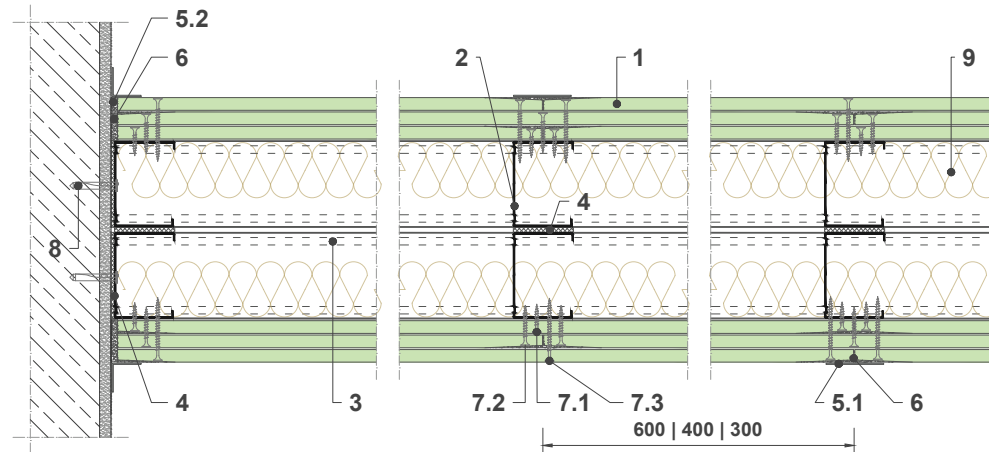


V01.3
≤ 12 m
$30 \leq a \leq 60$ mm
Reinforced UW, flange c=120 mm
1.0 mm

The specified maximum deflection of the system (**a**) includes the total displacement of the floor slabs and the expansion of the CW profile in the case of a fire. With an expected deflection (**a**) > 70 mm, a special connection should be specified by request.

PARTITION WALLS

Technogips Pro W2-3A



Material Consumption ⁽¹⁾ per 1 m ²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	6.0	6.0	6.0
2	Premium Profile Z140 CW 0.6 mm	m'	4.0	5.6	7.6
3	Premium Profile Z140 UW 0.6 mm	m'	1.4	1.4	1.4
4	Acoustic Tape @ the peripheral profiles	m'	2.4	2.4	2.4
5.1	Joint Tape @ inner joints ⁽²⁾	m'	1.9	1.9	1.9
5.2	Separation Strip TrennFix @ the peripheral joints	m'	1.7	1.7	1.7
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	1.8	1.8	1.8
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	15.0	18.0	30.0
7.2	Drywall Screw 3.5 x 35 mm @ 500 mm @ 12.5 mm @ boards Drywall Screw 3.5 x 45 mm @ 500 mm @ 15.0 mm @ boards	pcs	15.0	18.0	30.0
7.3	Drywall Screw 3.5 x 55 mm @ 250 mm @ 12.5 mm @ boards Drywall Screw 4.2 x 70 mm @ 250 mm @ 15.0 mm @ boards	pcs	30.0	45.0	60.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	3.2	3.2	3.2
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	2.0	2.0	2.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	1.7	1.7	1.7

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 10.8 m²/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 2.1 kg/m² for jointing and 1.0 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic.

30 45 60 90 120 180

Air-borne Sound Insulation
RW_{max} 72 dB

Self-Weight
up to 84 kg/m²

Wall Thickness
180 | 230 | 280 mm

Heights
up to 7.20 m

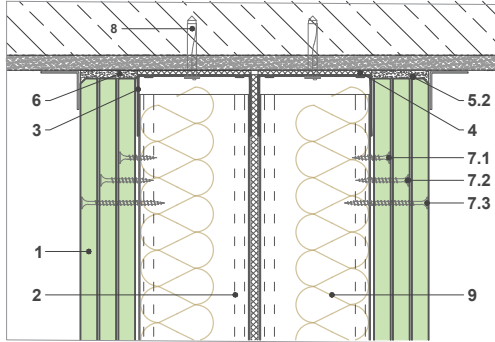
Board		Wall Weight	Wall Thickness	Profile	Insulation	Air-borne Sound Insulation R _w ⁽²⁾			Fire Resistance (without insulation)																							
Type	Thickness			Cavity	Thickness	R _w Glass Wool	R _w Stone Wool	R _w Without Insulation	EI 0 ³⁾			EI 30			EI 45			EI 60			EI 90			EI 120			EI 180					
	minimum				without insulation				minimum	Profile Spacing, mm																						
	mm	kg/m ²	mm	mm	mm	dB	dB	dB	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300			
Maximum permissible heights depending on the type of cladding, m ⁽¹⁾																																
A	3x12.5	61	180	2 x CW 50	2x40	62	63	52	4.50	4.75	5.40																					
H2	3x12.5	61	180		2x40	62	63	52	4.50	4.75	5.40																					
DF	3x12.5	69	180		2x40	63	64	54	4.50	4.75	5.40																					
DFH2	3x12.5	69	180		2x40	63	64	54	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
Sound Comfort Extra DFIR	3x12.5	78	180		2x40	64	65	57	4.50	4.75	5.40																					
Titan Board DFH1IR	3x12.5	84	180		2x40	65	66	59	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
Blue Board GMDFH1IR	3x12.5	81	180		2x40	64	65	58	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00						
DF	3x15	84	190		2x40	63	64	57	4.50	4.75	5.40																					
DFH2	3x15	84	190	2x40	63	64	57	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00							
A	3x12.5	61	230	2 x CW 75	2x60	63	64	54	5.80	6.00	6.50																					
H2	3x12.5	61	230		2x60	63	64	54	5.80	6.00	6.50																					
DF	3x12.5	69	230		2x60	64	65	56	5.80	6.00	6.50																					
DFH2	3x12.5	69	230		2x60	64	65	56	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
Sound Comfort Extra DFIR	3x12.5	78	230		2x60	65	66	59	5.80	6.00	6.50																					
Titan Board DFH1IR	3x12.5	84	230		2x60	67	68	60	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
Blue Board GMDFH1IR	3x12.5	81	230		2x60	65	66	59	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00						
DF	3x15	84	240		2x60	64	65	59	5.80	6.00	6.50																					
DFH2	3x15	84	240	2x60	64	65	59	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00							
A	3x12.5	61	280	2 x CW 100	2x80	64	65	55	6.50	6.80	7.20																					
H2	3x12.5	61	280		2x80	64	65	55	6.50	6.80	7.20																					
DF	3x12.5	69	280		2x80	68	69	57	6.50	6.80	7.20																					
DFH2	3x12.5	69	280		2x80	68	69	57	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						
Sound Comfort Extra DFIR	3x12.5	78	280		2x80	69	71	59	6.50	6.80	7.20																					
Titan Board DFH1IR	3x12.5	84	280		2x80	71	72	61	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						
Blue Board GMDFH1IR	3x12.5	81	280		2x80	66	67	60	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00						
DF	3x15	84	290		2x80	68	69	59	6.50	6.80	7.20																					
DFH2	3x15	84	290	2x80	68	69	59	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00							

(1) Permissible heights according to DIN 18183 and additional cold static calculations.

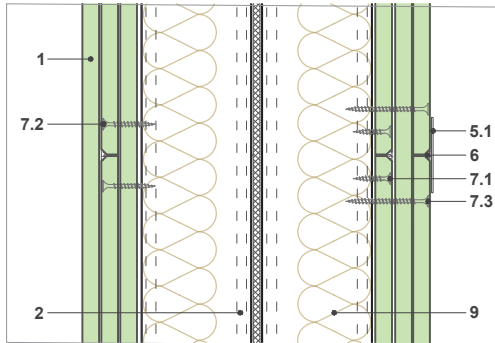
(2) R_w calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance r > 5 kPa s/m².

(3) Permissible heights without fire protection

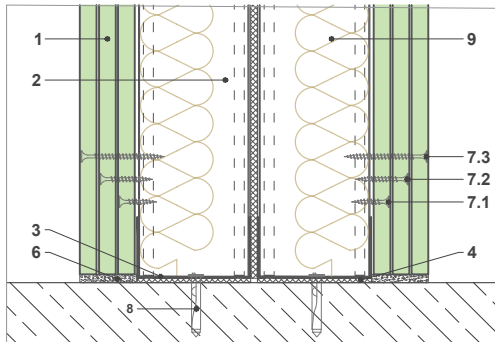
V01 Upper connection to solid concrete element



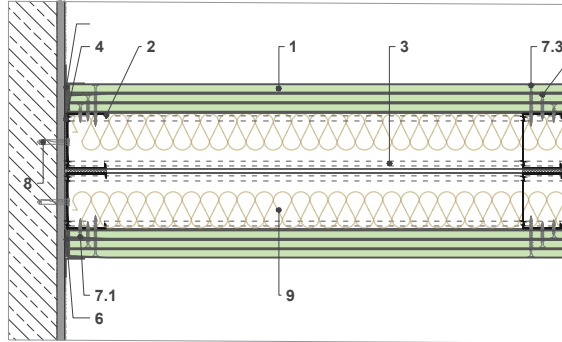
V02 Horizontal joint



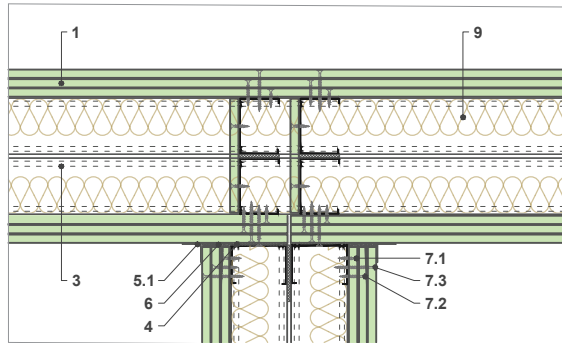
V03.1 Lower connection to solid concrete element



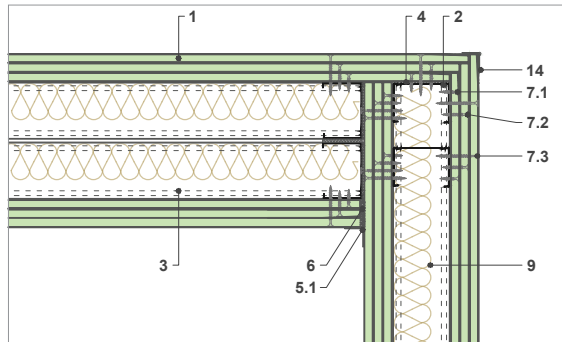
H01 Connection to solid concrete wall



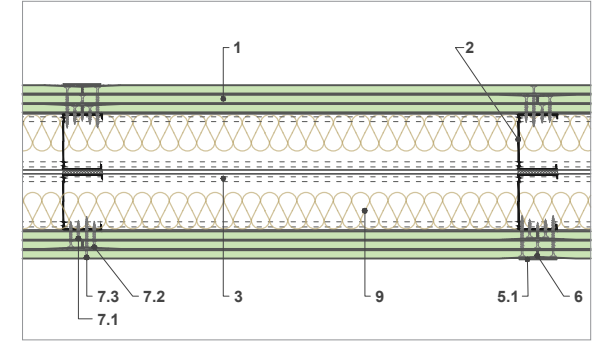
H03 T-intersection



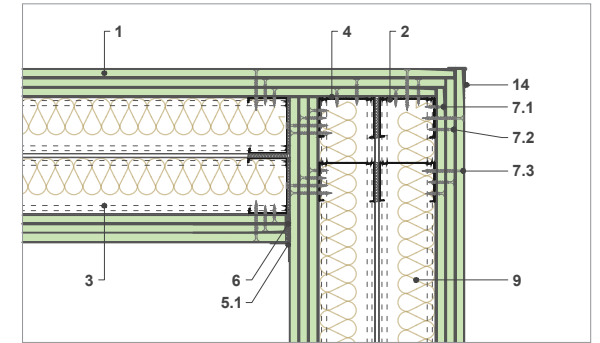
H04.2 Corner intersection W2-3A with W1-3



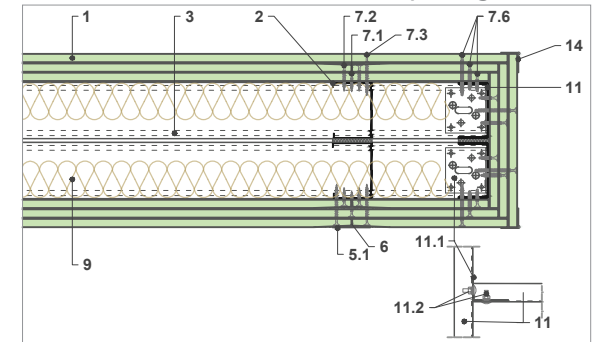
H02 Vertical Joint



H04.1 Corner intersection W2-3A with W2-3A



H11 Frame opening with UA



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

Details for high walls W2-3A - Upper connection to solid ceiling, vertical section

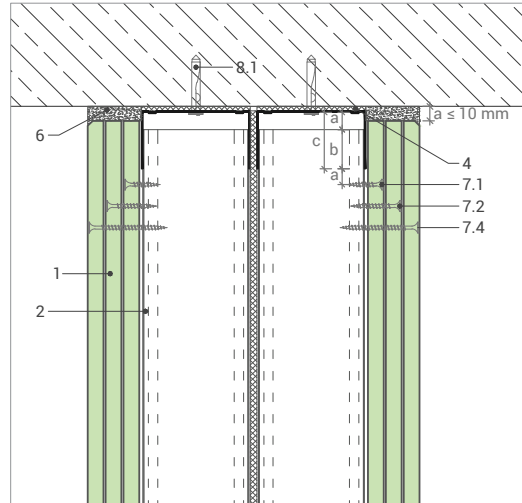
The choice of upper connection and type of UW profile depends on the height of the wall and **a** - the expected maximum deviation of the system.

Categories of upper connections available:

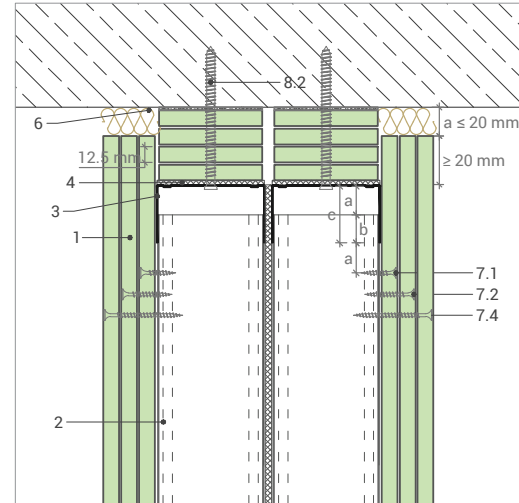
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board 12.5 mm
2. Premium Profile CW
3. Premium Profile UW
4. Acoustic Tape
6. Joint Filler FUGA
- 7.1. Drywall Screw 3.5 x 25 mm
- 7.2. Drywall Screw 3.5 x 35 mm
- 7.4. Drywall Screw 3.5 x 55 mm
- 8.1. Ceiling Anchor 6 x 40, 60, 80 mm
- 8.2. Concrete Screwbolt
- 8.3. Bolt Anchor
9. Insulation Strip

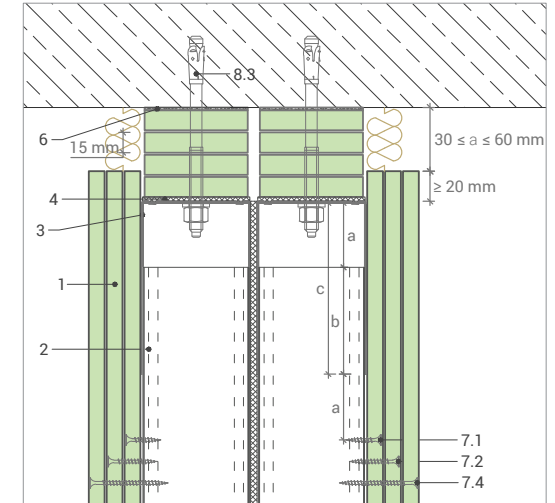
V01.1 Height ≤ 4 m



V01.2 Height ≤ 6 m



V01.3 Height ≤ 12 m



Detail
Height (m)
Deflection - a (mm)
UW profile - section
UW profile - thickness

V01.1

≤ 4 m
$a \leq 10$ mm
Standard UW, flange c=40 mm
0.6 mm

V01.2

≤ 6 m
$a \leq 20$ mm
Standard UW, flange c=40 mm
0.6 mm

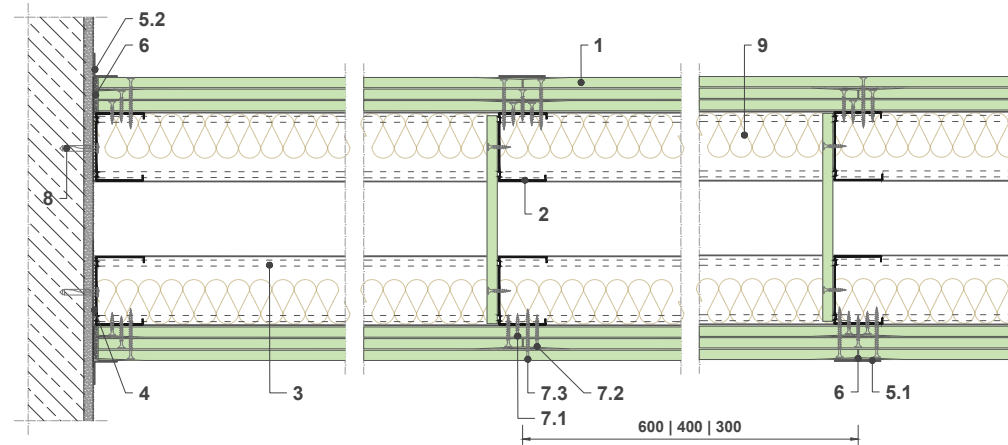
V01.3

≤ 12 m
$30 \leq a \leq 60$ mm
Reinforced UW, flange c=120 mm
1.0 mm

The specified maximum deflection of the system (**a**) includes the total displacement of the floor slabs and the expansion of the CW profile in the case of a fire. With an expected deflection (**a**) > 70 mm, a special connection should be specified by request.

PARTITION WALLS

Technogips Pro W2-3B



Material Consumption ⁽¹⁾ per 1 m ²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	6.2	6.3	6.4
2	Premium Profile Z140 CW 0.6 mm	m'	4.0	5.6	7.6
3	Premium Profile Z140 UW 0.6 mm	m'	1.4	1.4	1.4
4	Acoustic Tape @ the peripheral profiles	m'	2.4	2.4	2.4
5.1	Joint Tape @ inner joints ⁽²⁾	m'	1.9	1.9	1.9
5.2	Separation Strip TrennFix @ the peripheral joints	m'	1.7	1.7	1.7
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	1.8	1.8	1.8
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	15.0	18.0	30.0
7.2	Drywall Screw 3.5 x 35 mm @ 500 mm @ 12.5 mm @ boards Drywall Screw 3.5 x 45 mm @ 500 mm @ 15.0 mm @ boards	pcs	15.0	18.0	30.0
7.3	Drywall Screw 3.5 x 55 mm @ 250 mm @ 12.5 mm @ boards Drywall Screw 4.2 x 70 mm @ 250 mm @ 15.0 mm @ boards	pcs	30.0	45.0	60.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	3.2	3.2	3.2
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	2.0	2.0	2.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	1.7	1.7	1.7

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 10.8 m²/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 2.1 kg/m² for jointing and 1.0 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic.

 30 45 60 90 120 180

 Air-borne Sound Insulation
RW_{max} 63 dB

 Self-Weight
up to 91 kg/m²

 Wall Thickness
180 ÷ 800 mm

 Heights
up to 6.80 m

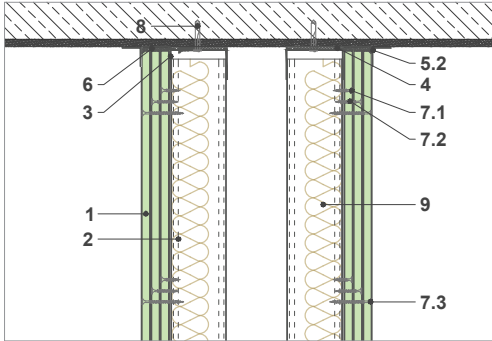
Board		Wall Weight	Wall Thickness	Profile	Insulation	Air-borne Sound Insulation R _w ⁽²⁾			Fire Resistance (without insulation)																				
Type	Thickness			Cavity	Thickness	R _w Glass Wool	R _w Stone Wool	R _w Without Insulation	EI 0 ⁽³⁾			EI 30			EI 45			EI 60			EI 90			EI 120			EI 180		
	minimum				minimum				Profile Spacing, mm																				
	mm	kg/m ²	mm	mm	mm	dB	dB	dB	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300
Maximum permissible heights depending on the type of cladding, m ⁽¹⁾																													
A	3x12.5	66	180 ÷ 600	2 x CW 50	2x40	54	55	50	4.50	4.75	5.40																		
H2	3x12.5	66	180 ÷ 600		2x40	54	55	50	4.50	4.75	5.40																		
DF	3x12.5	75	180 ÷ 600		2x40	55	56	51	4.50	4.75	5.40																		
DFH2	3x12.5	75	180 ÷ 600		2x40	55	56	51	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00			
Sound Comfort Extra DFIR	3x12.5	85	180 ÷ 600		2x40	58	59	54	4.50	4.75	5.40																		
Titan Board DFH1IR	3x12.5	91	180 ÷ 600		2x40	60	61	56	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00			
Blue Board GMDFH1IR	3x12.5	88	180 ÷ 600		2x40	59	60	55	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00			
DF	3x15	91	190 ÷ 600		2x40	58	59	54	4.50	4.75	5.40																		
DFH2	3x15	91	190 ÷ 600		2x40	58	59	54	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.50	4.75	5.40	4.00	4.00	4.00			
A	3x12.5	66	230 ÷ 600	2 x CW 75	2x60	54	55	50	5.80	6.00	6.50																		
H2	3x12.5	66	230 ÷ 600		2x60	54	55	50	5.80	6.00	6.50																		
DF	3x12.5	75	230 ÷ 600		2x60	56	57	52	5.80	6.00	6.50																		
DFH2	3x12.5	75	230 ÷ 600		2x60	56	57	52	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00			
Sound Comfort Extra DFIR	3x12.5	85	230 ÷ 600		2x60	58	59	54	5.80	6.00	6.50																		
Titan Board DFH1IR	3x12.5	91	230 ÷ 600		2x60	60	61	56	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00			
Blue Board GMDFH1IR	3x12.5	88	230 ÷ 600		2x60	59	60	55	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00			
DF	3x15	91	240 ÷ 600		2x60	58	59	54	5.80	6.00	6.50																		
DFH2	3x15	91	240 ÷ 600		2x60	58	59	54	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	5.80	6.00	6.50	4.00	4.00	4.00			
A	3x12.5	66	280 ÷ 800	2 x CW 100	2x80	56	57	52	6.50	6.80	7.20																		
H2	3x12.5	66	280 ÷ 800		2x80	56	57	52	6.50	6.80	7.20																		
DF	3x12.5	75	280 ÷ 800		2x80	58	59	54	6.50	6.80	7.20																		
DFH2	3x12.5	75	280 ÷ 800		2x80	58	59	54	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.39	6.80	7.20	4.00	4.00	4.00			
Sound Comfort Extra DFIR	3x12.5	85	280 ÷ 800		2x80	60	61	56	6.50	6.80	7.20																		
Titan Board DFH1IR	3x12.5	91	280 ÷ 800		2x80	62	63	58	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00			
Blue Board GMDFH1IR	3x12.5	88	280 ÷ 800		2x80	61	62	57	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	4.00	4.00	4.00			
DF	3x15	91	290 ÷ 800		2x80	60	61	56	6.50	6.80	7.20																		
DFH2	3x15	91	290 ÷ 800		2x80	60	61	56	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.50	6.80	7.20	6.39	6.80	7.20	4.00	4.00	4.00			

(1) Permissible heights according to DIN 18183 and additional cold static calculations.

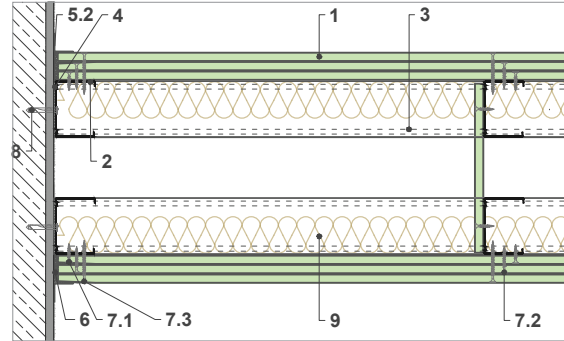
(2) R_w calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance r > 5 kPa s/m².

(3) Permissible heights without fire protection

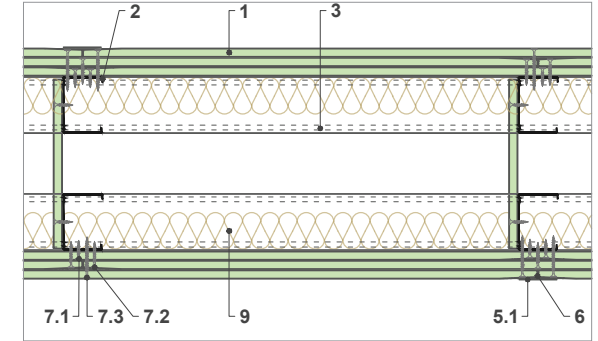
V01 Upper connection to solid concrete element



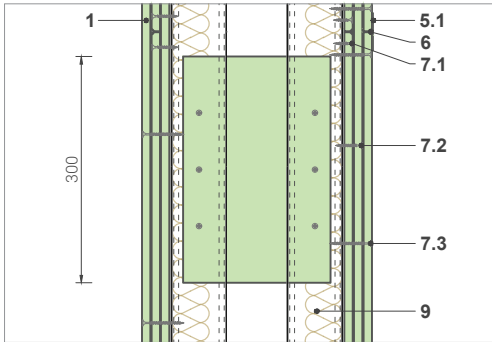
H01 Connection to solid concrete wall



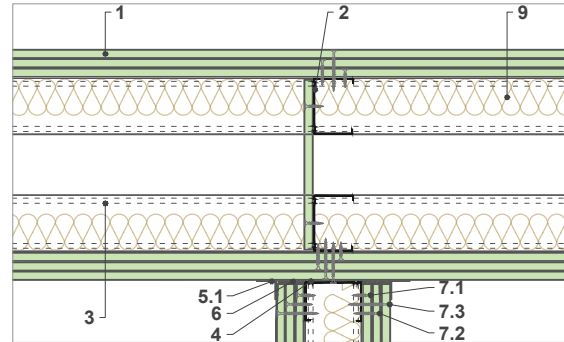
H02 Vertical Joint



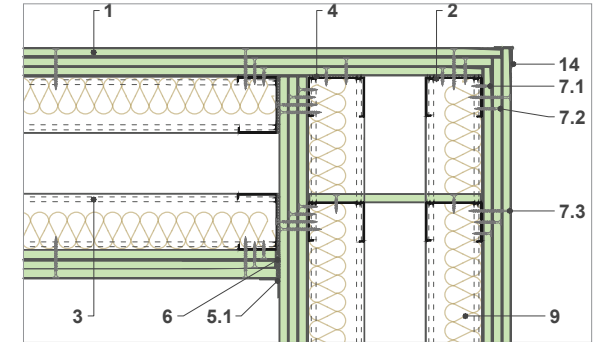
V02 Horizontal joint



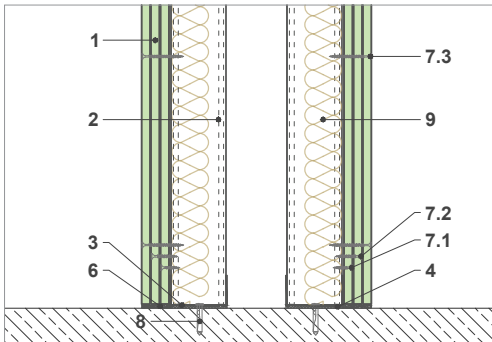
H03 T-intersection



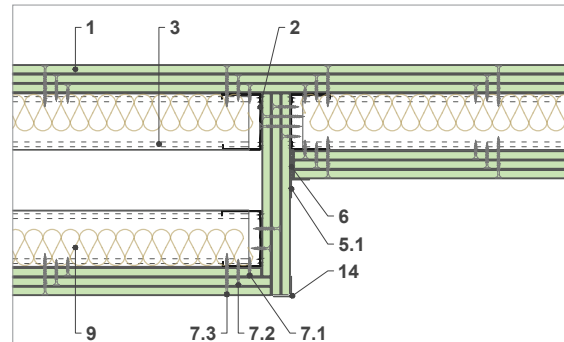
H04.1 Corner intersection W2-3B with W2-3B



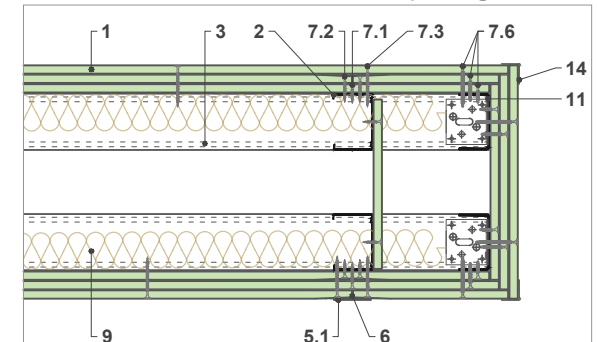
V03.1 Lower connection to solid concrete element



H09 Connection W2-3B with W1-3



H11 Frame opening with UA



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	11.2. Frame Fitting Screw for UA
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Mineral Wool	12. Premium Profile UD
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Premium Profile UA	13. Premium Profile CD
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.6 Self-drilling Screw 3.5 x 25 / 35 / 55 mm	11.1. Angle for UA	14. Corner Tape ALUX

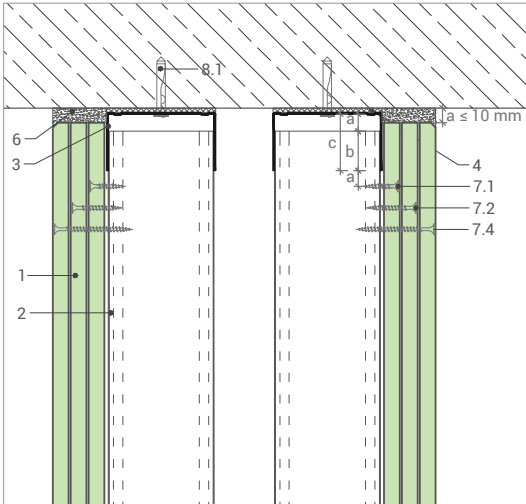
Details for high walls W2-3B - Upper connection to solid ceiling, vertical section

The choice of upper connection and type of UW profile depends on the height of the wall and **a** - the expected maximum deviation of the system.
Categories of upper connections available:

CERTIFIED SYSTEM COMPONENTS Technogips Pro	
1.	Gypsum Board 12.5 mm
2.	Premium Profile CW
3.	Premium Profile UW
4.	Acoustic Tape
6.	Joint Filler FUGA
7.1.	Drywall Screw 3.5 x 25 mm
7.2.	Drywall Screw 3.5 x 35 mm
7.4.	Drywall Screw 3.5 x 55 mm
8.1.	Ceiling Anchor 6 x 40, 60, 80 mm
8.2.	Concrete Screwbolt
8.3.	Bolt Anchor
9.	Insulation Strip

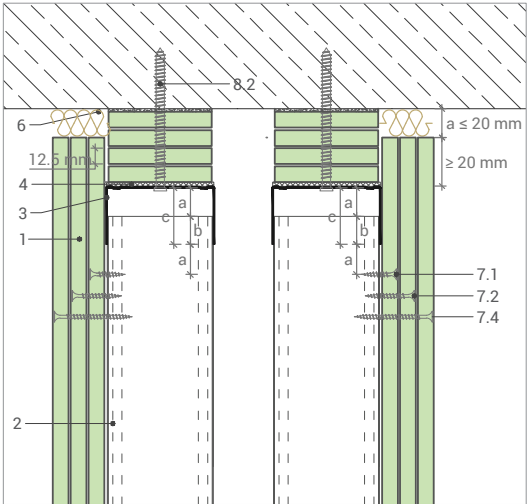
Detail
Height (m)
Deflection - a (mm)
UW profile - section
UW profile - thickness

V01.1 Height ≤ 4 m



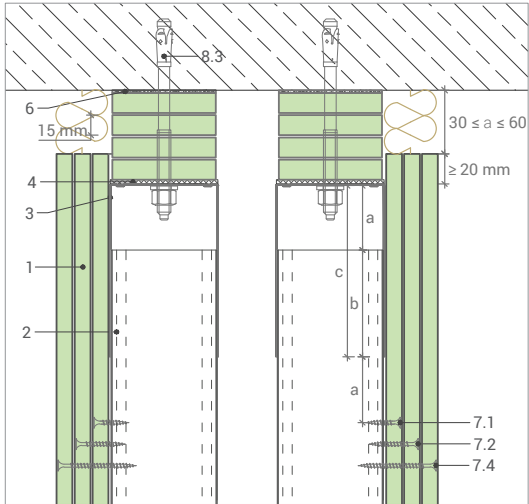
V01.1
≤ 4 m
a ≤ 10 mm
Standard UW, flange c=40 mm
0.6 mm

V01.2 Height ≤ 6 m



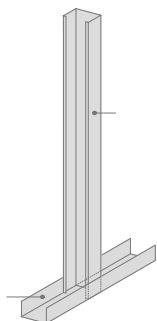
V01.2
≤ 6 m
a ≤ 20 mm
Standard UW, flange c=40 mm
0.6 mm

V01.3 Height ≤ 12 m

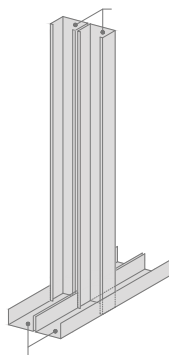


V01.3
≤ 12 m
30 ≤ a ≤ 60 mm
Reinforced UW, flange c=120 mm
1.0 mm

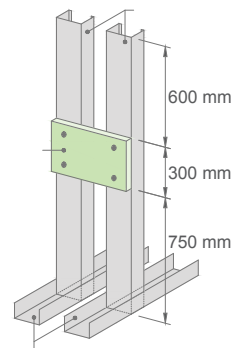
The specified maximum deflection of the system (**a**) includes the total displacement of the floor slabs and the expansion of the CW profile in the case of a fire.
With an expected deflection (**a**) > 70 mm, a special connection should be specified by request.



W1-1 / W1-2 / W1-3 / W1-4



W 2-2A / W 2-3A



W 2-2B / W 2-3B

CW 50	UW 50
CW 75	UW 75
CW 100	UW 100
CW 125	UW 125
CW 150	UW 150

Installation of peripheral profiles to the main structure:

1. Mark the desired position of the partition wall on the floor and walls using a laser level or a chalk line.
2. The back side of the peripheral horizontal UW profiles and the end vertical CW profiles which are in direct contact with the surrounding structures need to be insulated with an acoustic foam tape for better sound insulation.
The width of the acoustic foam tape is based on the width of the profile used.
3. In accordance with the prepared marking, the peripheral profiles are fixed using suitable dowels at 50 mm from each end of the profile and at 500 mm along its length, but not less than 3 fasteners per profile.

Installation of vertical CW profiles:

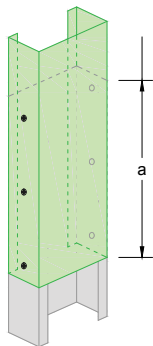
1. The vertical CW profiles of the metal structure are mounted between the upper and the lower horizontal UW profiles, with axial distance between the profiles determined by the height of the wall. The higher the wall, the shorter the distance. The stud spacing of the vertical profiles can be 600, 400 or 300 mm.
2. The length of the vertical profiles should be 10 mm shorter than floor to ceiling distance.
3. In case of subsequent ceramic tile coatings, the vertical profiles need to be mounted at axial distance of max 400 mm or the cladding should consist of minimum two layers of plasterboard.

Vertical extension of profiles

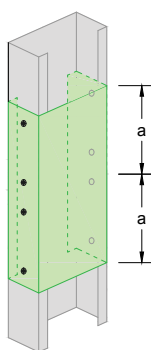
The profiles extension should be installed at alternating sequence, at top and bottom end of the profile.

Wall height ≤ 5 m

Without additional profile

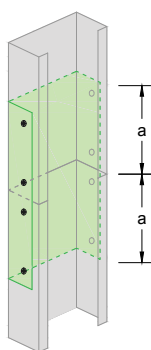


With additional CW profile

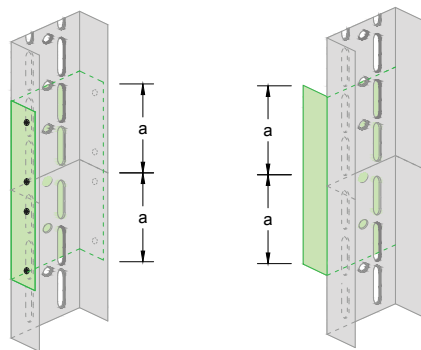


Wall height > 5 m

With additional UW profile



With additional UA profile



Profile Type	Overlapping - a
CW 50 / UA 50	≥ 500 mm
CW 75 / UA 75	≥ 750 mm
CW 100 / UA 100	≥ 1000 mm
CW 125 / UA 125	≥ 1250 mm
CW 150 / UA 150	≥ 1500 mm

Fixing the additional profile with 4 Self-drilling Screws TEX LB 4.2x13 on each side of the profile, according to scheme.

CANTILEVER LOADS

METAL STUD FRAME	LOAD
Standard Structure with CW/UW Profiles	
Partition Wall W1-1	$\leq 40 \text{ kg/m'}$
Partition Wall W1-2 / W1-3 / W1-4	$\leq 70 \text{ kg/m'}$
Reinforced Structure with UA Profiles	$> 70 \leq 150 \text{ kg/m'}$
Minimum 3 dowels per load	

FRAME OPENING

Selecting the metal stud in accordance with the width and weight of the door leaf:

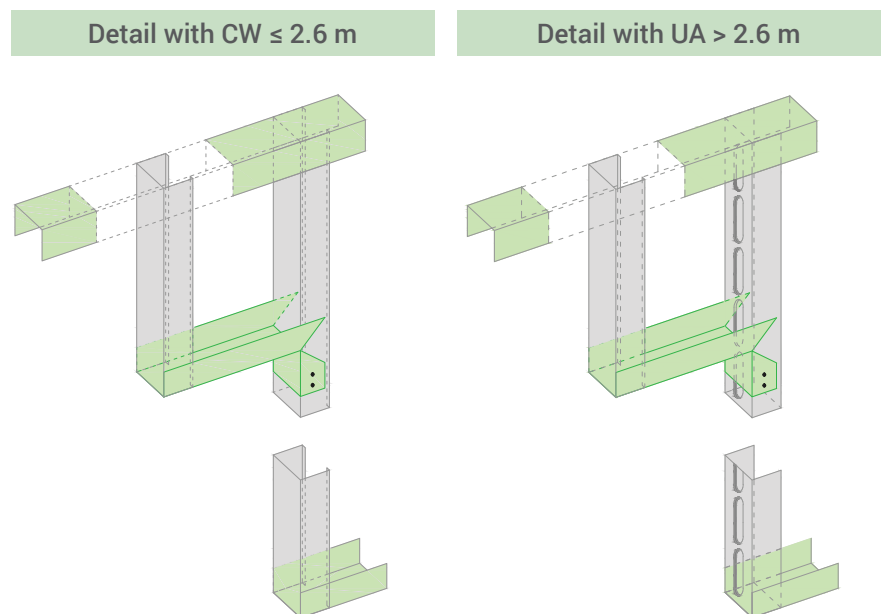
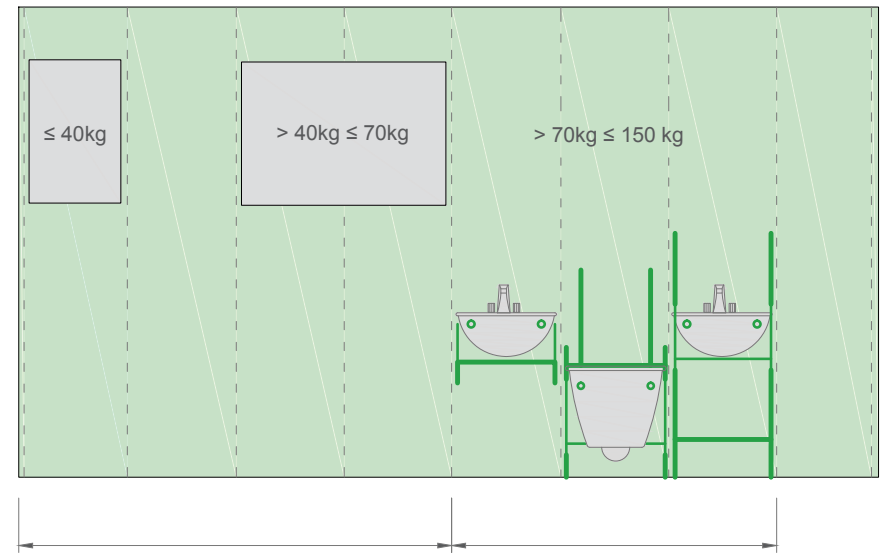
WIDTH	CW 50 / 75 / 100*	UA 50	UA 75	UA 100	UA 125	UA 150
mm	kg	kg	kg	kg	kg	kg
≤ 1000	≤ 25	≤ 50	≤ 75	≤ 100	≤ 125	≤ 150
≤ 1250	x	≤ 40	≤ 60	≤ 80	≤ 100	≤ 120
≤ 1500	x	≤ 35	≤ 50	≤ 65	≤ 80	≤ 95

* Permissible height of the wall 260 cm

The lintel of the door is formed with UW profile, specifically pre-cut with length $2 \times 250 \text{ mm}$ + the door opening width.

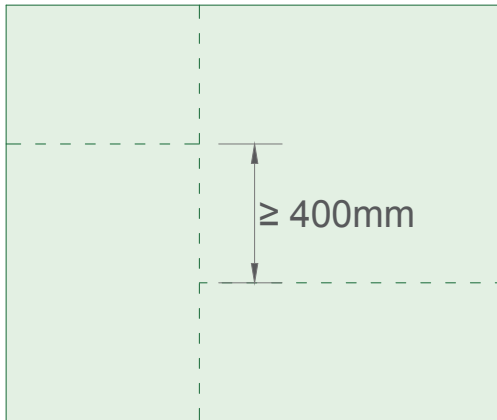
The lintel should be fixed to the vertical profile through Self-drilling screws TEX LB 4.2x13.

When installing the upper Angle for UA, the Bolt Screw to the UA Profile remain loose, to avoid a rigid connection between the partition wall and the main structure.

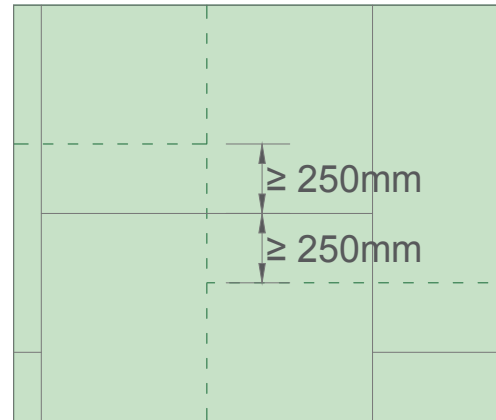


CLADDING PATTERN

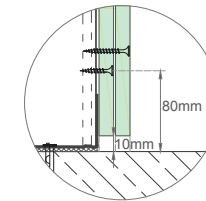
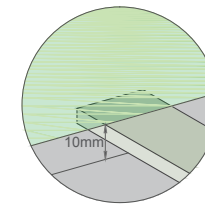
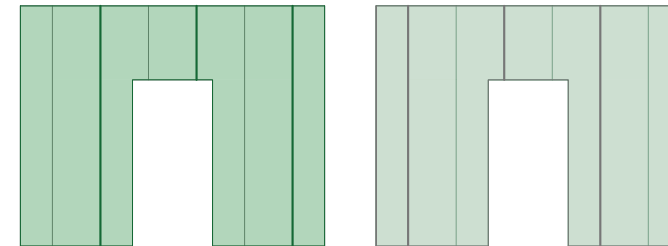
First / Third Layer



Second / Fourth Layer



Frame Openings



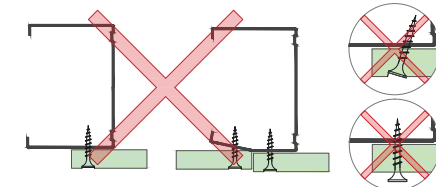
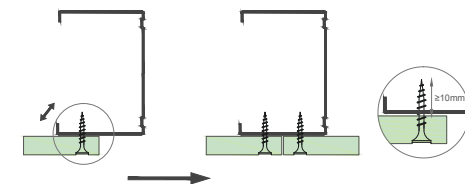
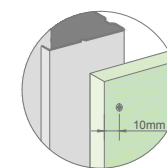
When installing the boards, a gap of minimum 10 mm should be left at the lower connection to the solid concrete floor. Joints on opposite sides of the partition, both horizontal and vertical should be staggered.
For multi-layer cladding, second layer should be staggered both horizontally and vertically.

Fasteners

Drywall screw TN 3.5 x 25/35/45/50 or 4.2/70 with sharp point for grid with thickness of the metal profiles < 0.7 mm.
Self-drilling screw TB 3.5 x 25/35/45/50 with self-drilling point for grid with thickness of the metal profiles 0.7 ÷ 2.0 mm.

Fasteners' Length				
Boards thickness	1st Layer	2nd Layer	3rd Layer	4th Layer
9.5 mm	3.5 x 25	3.5 x 35	x	x
12.5 mm	3.5 x 25	3.5 x 35	3.5 x 55	4.2 x 70
15.0 mm	3.5 x 25	3.5 x 45	3.5 x 55	4.2 x 70
2 x 12.5 mm + 15.0 mm	3.5 x 25	3.5 x 35	3.5 x 55	x

Axial distance between fasteners				
Number of layers	1st Layer	2nd Layer	3rd Layer	4th Layer
Single	250	x	x	x
Double	500	250	x	x
Triple	500	500	250	x
Quadruple	500	500	500	250



The screw should be installed in a way that its head is right beneath the surface of the boards with approx. 1 mm.
Fastening the boards begins from the open part of the CW flange and continue in the direction of its base.

Surface quality levels

According to Eurogypsum's classification – European federation of the gypsum product manufacturing industry. Developed and established, the 4 levels of quality finish classification for plasterboard cladding aims to provide clear definitions thus helping to reduce subjective judging of the end result.

Surface Quality Level	Aesthetic requirements	Finish surface suitability	Application	Suitable Product
Q1 (basic)	For surfaces without aesthetic requirements.	Ceramic tiles, decorative relief plasters with a thickness of more than 2 mm, etc. Corridors and ceilings of service rooms.	Filling the joints and reinforcing with tape. Filling the screw heads. In multi-layer systems and without fire protection requirements, the transition layers do not have to be reinforced with tape.	FUGA FUGA hydro FUGA & FINISH Light
Q2 (standard)	Standard level of completion.	Laying wallpaper with a medium or rough structure. Matt disperse and other paints with filler, which are applied with an ordinary paint roller. Decorative thin-layer plasters or skim coats with a thickness of 1 mm.	Fully finished and dried level Q1. Skim-coating and widening of the joint area to achieve a smooth transition of the surface. Laying a second layer on the screw heads. Forming internal and external corners. If necessary, polish the areas with fine sandpaper.	FUGA FUGA hydro FUGA & FINISH Light
Q3 (high)	High level - some shading still possible.	Laying thin and fine wallpaper Matt disperse and other paints with filler, which are applied with an ordinary paint roller. Decorative thin-layer plasters or skim coats with a thickness of 1 mm.	Fully finished and dried level Q2. Fine complete skim-coating of the surface, including, if necessary, polishing with fine sandpaper. Rough areas and imperfections are not allowed, but are not excluded.	SATEN FUGA & FINISH Light
Q4 (premium)	Premium end - minimized appearance of marks and traces.	Surfaces with requirements for extremely high surface quality. Surfaces to be treated with glossy paints and coatings. Premises with spot or bright light.	Fully finished and dried level Q2. Fine complete skim-coating of the surface with a layer <3 mm. Mandatory thorough inspection of the entire surface with directional LED light and polishing with fine sandpaper. Rough sections and imperfections are not allowed.	SATEN FUGA & FINISH Light

Additional Information

Untreated joints and surfaces are suitable for temporary construction or when the finish coat has not been determined.

Quality level Q2 does not ensure that marks and spots under the finishing layer will not be visible, particularly under bright or shallow light. These effects can be reduced by continuing with the next level Q3, which includes a thorough coating of the entire plasterboard surface.

If the finishing level of the surface is not specified, then by default quality level Q2 is accepted as sufficient.

It is important to note that quality level Q3 allows partly transparent areas in the jointing between the plasterboards especially under the effect of bright shallow light or in case of glossy finishing. If higher demands are made on quality of the finished surface we recommend the next quality level Q4.

Joint Treatment

Application Conditions

The premise and substrate temperature must not be lower than 8 ° C and must be kept constant for at least 2 days before the joints are treated. Sudden temperature changes when ventilating the premises must be prevented. The flatness and quality of the installation of the boards must also be checked. In the presence of poorly screwed screws, they must be tightened to ensure the flatness of the plasterboard surface. Correct screws to be used with screw head just below the board surface.

Level Q1

First coat of Technogips Pro joint filler should be applied with joint knife of sufficient width beyond both sides of the center of the joint. Technogips Pro joint tape should be embedded into the joint filler to reinforce the joint between two boards.

Applying a second thin coat of the joint filler to level the joint with a width of approx. 80 mm

The visible screw heads should be also filled in.

In multi-layer systems and no fire protection requirements, the lower layers do not have to be reinforced with tape. In the case of fire protection systems, the reinforcement of the joints of all layers with joint tape is mandatory.

Level Q2

To be able to continue with level Q2 – aligning the joint area with continuous transition to the board surface, the absolutely necessary requirement is the first layer, level Q1 to be completely dried (this could take up to 24 hours). A thin leveling coat is applied on the joint with a width of approx. 300 mm for tapered (TE) edging and approx. 400 mm for square (SE) edging. This is sufficient to ensure a continuous gradual transition from the joint to the wallboard surface. The screw heads to be covered with second coat of the compound.

The inner and outer corners should be formed. The outer corners must be formed with an Aluminum angle bead, which must be fixed and leveled with small part of the compound. For a stronger connection and maximum protection against cracks, additional reinforcement with fiberglass tape is recommended at the transition between the corner and the plasterboard. The inner corners to be reinforced with paper tape and compound.

Level Q3

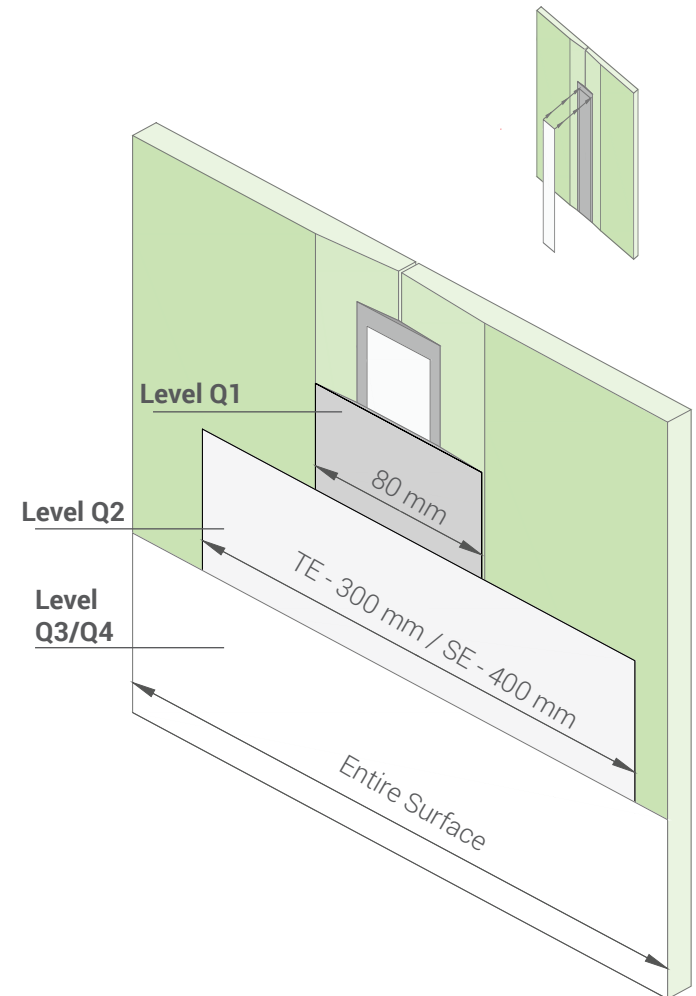
To be able to continue with level Q3 – complete skim coating of the surface, the absolutely necessary requirement is the previous stage, level Q2 to be completely dried (this could take up to 8 hours). With rectilinear moves, holding the drywall trowel under 30°, with rectilinear moves spread a thin layer of the compound. Typically, one or two moves are sufficient to even up all physical ridges and grooves, adding more of the mixture if necessary.

If needed, the surface could be smoothed with fine sandpaper after complete drying of the skim coat.

Level Q4

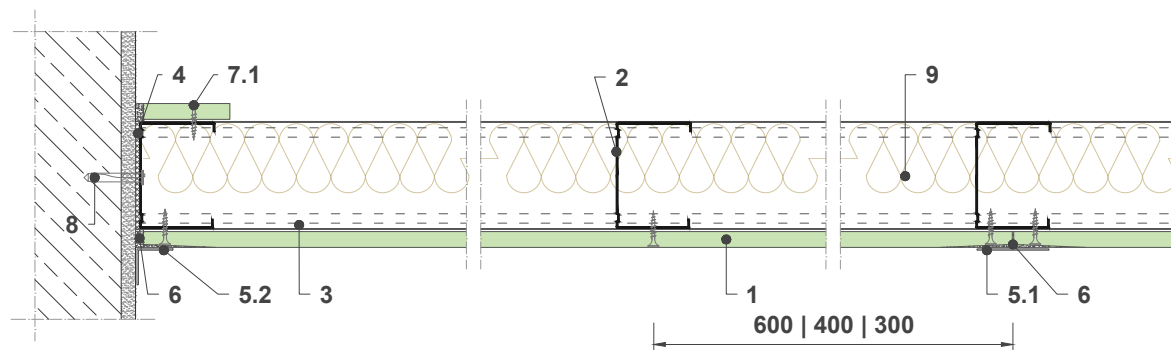
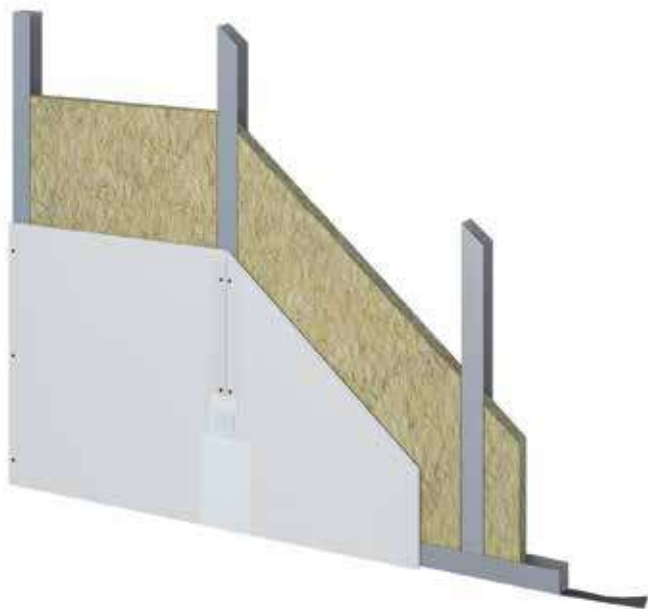
It is mandatory that the previous layer - level Q2 (Q3) is finished and dry (takes no more than 24 hours). A thin layer (no more than 3 mm) of the compound to be applied over the entire surface of the wall. Then smooth the surface using a skimming spatula.

After the wall is completely dry, all imperfections must be smoothed with fine sandpaper. Using LED floodlight will help you spot them easily.



SHAFT WALLS

Technogips Pro S1-1



Wall Self-Weight
up to **19 kg/m²**



Wall Thickness
65 | 90 | 115 | 140 | 165 mm



Permissible Height
up to **8.50 m**

Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	1.0	1.0	1.0
2	Premium Profile Z140 CW 0.6 mm	m'	2.0	2.8	3.8
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2	1.2
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	1.0	1.0	1.0
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.9	0.9	0.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.3	0.3	0.3
7.1	Drywall Screw 3.5 x 25 mm @ 250 mm	pcs	15.0	23.0	30.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6	1.6
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9	0.9

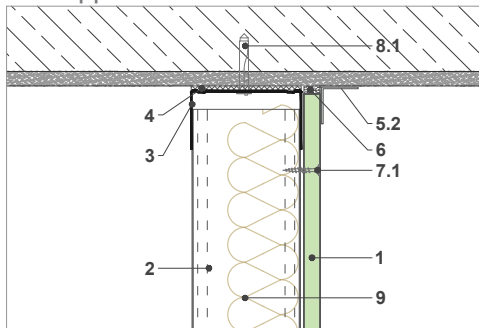
⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 1.8 m'/m².

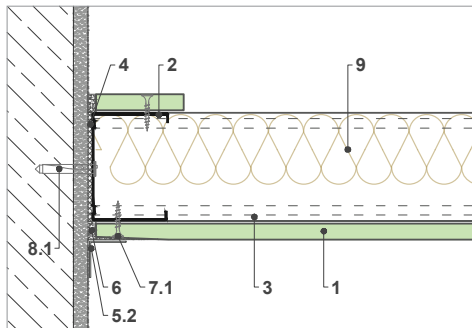
⁽³⁾ Consumption rate of FUGA&FINISH is 0.35 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

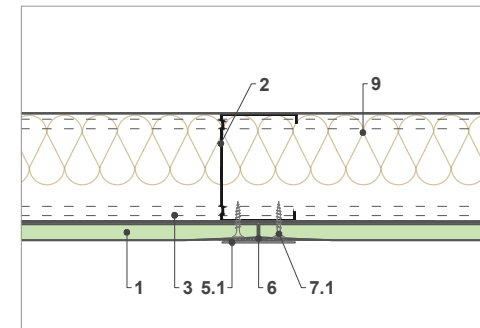
V01 Upper connection to solid concrete element



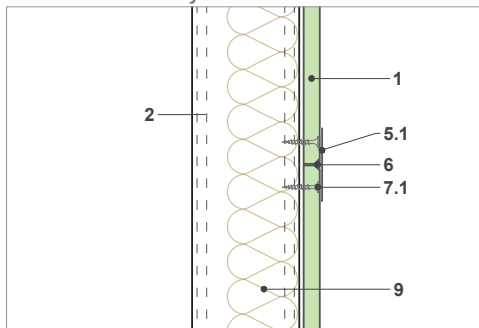
H01 Connection to solid concrete wall



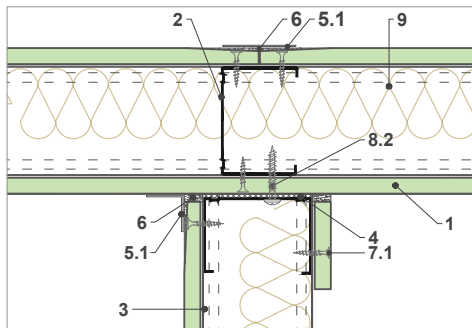
H02 Vertical Joint



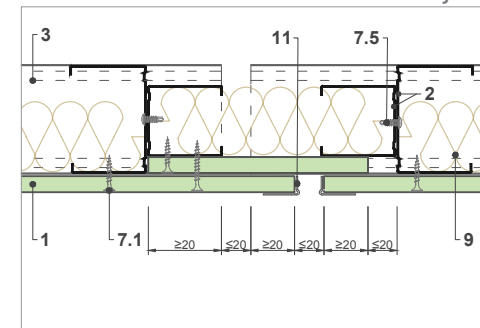
V02 Horizontal joint



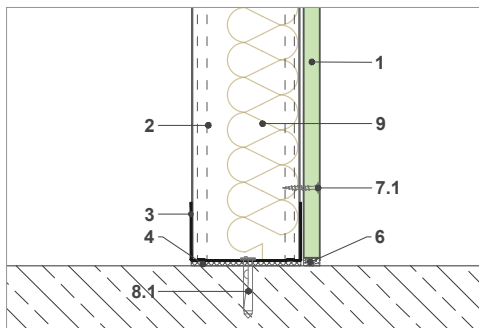
H03 T-intersection



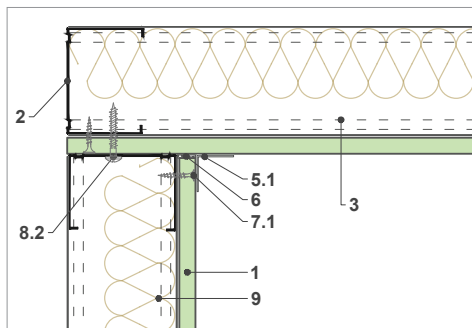
H04 Dilatation joint



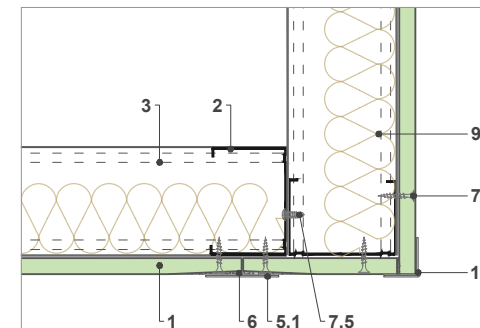
V03 Lower connection to solid concrete element



H05.1 Inner corner



H05.2 Outer corner

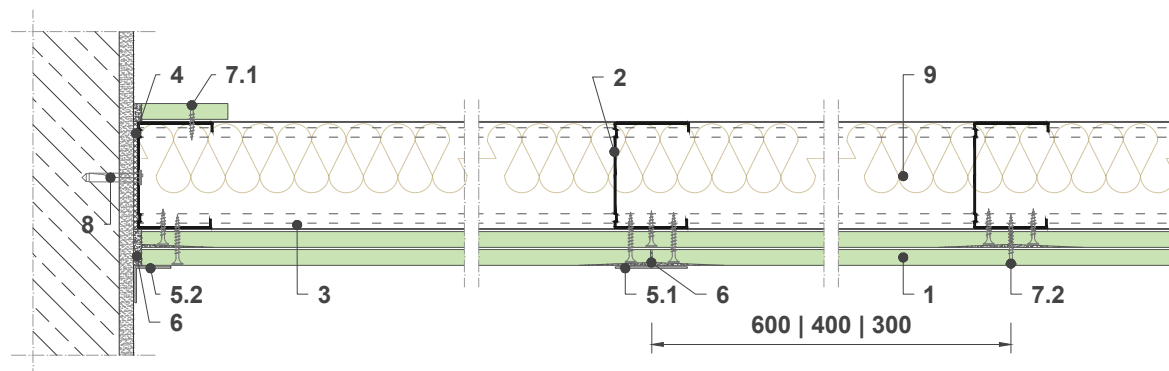
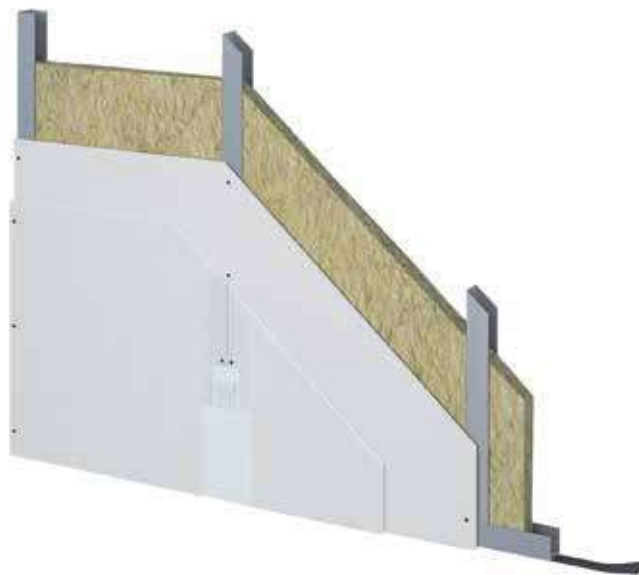


CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Universal Screw FN 4.3 x 65
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	9. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Corner Tape ALUX

SHAFT WALLS

Technogips Pro S1-2



 **30** **45** **60** **90** **120** **180**

 Wall Self-Weight
up to **31 kg/m²**

 Wall Thickness
75 | 100 | 125 | 150 | 175 mm

 Permissible Height
up to **9.50 m**

Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	2.0	2.0	2.0
2	Premium Profile Z140 CW 0.6 mm	m'	2.0	2.8	3.8
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2	1.2
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	1.0	1.0	1.0
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.9	0.9	0.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.6	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	8.0	9.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15 mm boards	pcs	15.0	23.0	30.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6	1.6
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9	0.9

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 3.6 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

SHAFT WALLS **Technogips Pro S1-2**
SINGLE METAL STUD FRAME - DOUBLE LAYER CLADDING



Board		Wall Weight	Wall Thickness	Profile	Fire Resistance Class (without insulation)																	
Type	Thickness			Cavity	EI 0 ³⁾			EI 30			EI 45			EI 60			EI 90			EI 120		
	minimum				Profiles Axial Distance, mm																	
	mm	kg/m²	mm	mm	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300
Permissible heights depending on the type of cladding, m ⁽¹⁾																						
A	2x12.5	21	75	CW 50	2.95	3.60	4.00															
H2	2x12.5	21	75		2.95	3.60	4.00															
DF	2x12.5	24	75		2.95	3.60	4.00															
DFH2	2x12.5	24	75		2.95	3.60	4.00															
Sound Comfort Extra DFIR	2x12.5	27	75		2.95	3.60	4.00															
Titan Board DFH1IR	2x12.5	29	75		3.35	4.00	4.00															
Blue Board GMDFH1IR	2x12.5	28	75		3.35	4.00	4.00	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35						
DF	2x15	29	80		3.35	4.00	4.00	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35						
DFH2	2x15	29	80		3.35	4.00	4.00	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35							
A	2x12.5	21	100	CW 75	4.00	4.00	4.55															
H2	2x12.5	21	100		4.00	4.00	4.55															
DF	2x12.5	24	100		4.00	4.00	4.55															
DFH2	2x12.5	24	100		4.00	4.00	4.55															
Sound Comfort Extra DFIR	2x12.5	27	100		4.00	4.00	4.55															
Titan Board DFH1IR	2x12.5	29	100		4.00	4.00	4.55															
Blue Board GMDFH1IR	2x12.5	28	100		4.00	4.00	4.55	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00						
DF	2x15	29	130		4.00	4.15	4.75	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00						
DFH2	2x15	29	130		4.00	4.15	4.75	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00							
A	2x12.5	21	125	CW 100	4.50	5.40	6.15															
H2	2x12.5	21	125		4.50	5.40	6.15															
DF	2x12.5	24	125		4.50	5.40	6.15															
DFH2	2x12.5	24	125		4.50	5.40	6.15															
Sound Comfort Extra DFIR	2x12.5	27	125		4.50	5.40	6.15															
Titan Board DFH1IR	2x12.5	29	125		4.50	5.40	6.15															
Blue Board GMDFH1IR	2x12.5	28	125		4.50	5.40	6.15	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00						
DF	2x15	29	130		4.65	5.65	6.40	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00						
DFH2	2x15	29	130		4.65	5.65	6.40	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00							
A	2x12.5	23	150	CW 125	5.80	6.90	7.75															
H2	2x12.5	23	150		5.80	6.90	7.75															
DF	2x12.5	26	150		5.80	6.90	7.75															
DFH2	2x12.5	26	150		5.80	6.90	7.75															
Sound Comfort Extra DFIR	2x12.5	29	150		5.80	6.90	7.75															
Titan Board DFH1IR	2x12.5	31	150		5.80	6.90	7.75															
Blue Board GMDFH1IR	2x12.5	30	150		5.80	6.90	7.75	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00						
DF	2x15	31	155		6.00	7.20	8.05	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00						
DFH2	2x15	31	155		6.00	7.20	8.05	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00							
A	2x12.5	23	175	CW 150	7.15	8.40	9.25															
H2	2x12.5	23	175		7.15	8.40	9.25															
DF	2x12.5	26	175		7.15	8.40	9.25															
DFH2	2x12.5	26	175		7.15	8.40	9.25															
Sound Comfort Extra DFIR	2x12.5	29	175		7.15	8.40	9.25															
Titan Board DFH1IR	2x12.5	31	175		7.15	8.40	9.25															
Blue Board GMDFH1IR	2x12.5	30	175		7.15	8.40	9.25	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00						
DF	2x15	31	180		7.40	8.70	9.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00						
DFH2	2x15	31	180		7.40	8.70	9.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00							

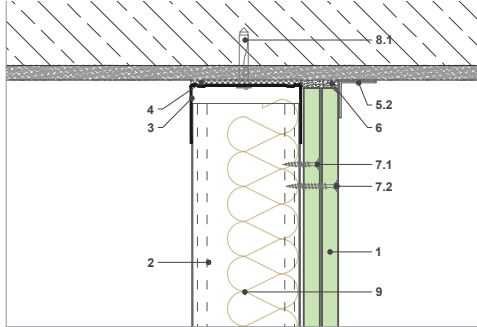
1) Permissible heights according to DIN 18 183 and additional cold static calculations.

2) Rw calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance $r > 5 \text{ kPa s/m}^2$.

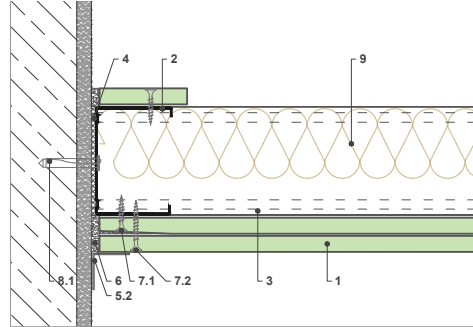
3) Permissible heights without fire protection

* Heights are achieved with insulation layer thickness of 50 mm and density min. 40 kg/m³, in acc. with EN 13162

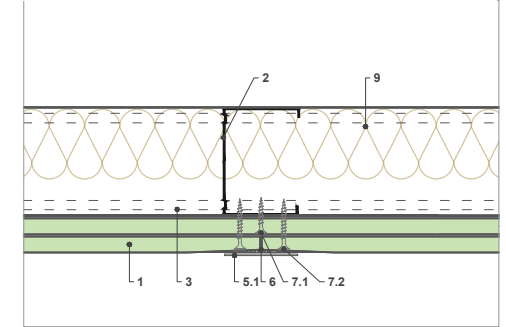
V01 Upper connection to solid concrete element



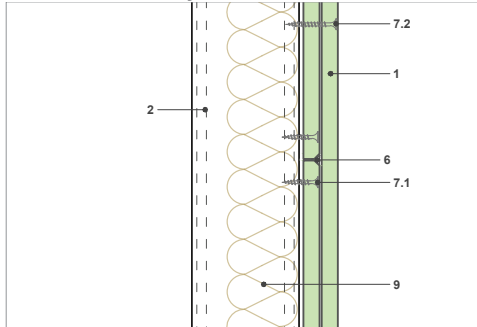
H01 Connection to solid concrete wall



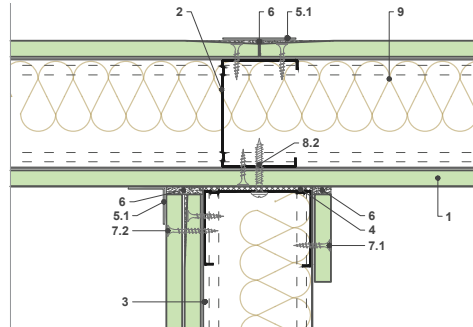
H02 Vertical Joint



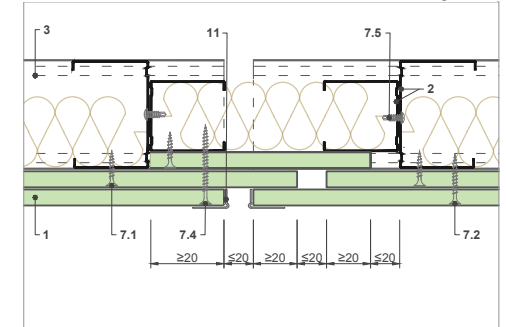
V02 Horizontal joint



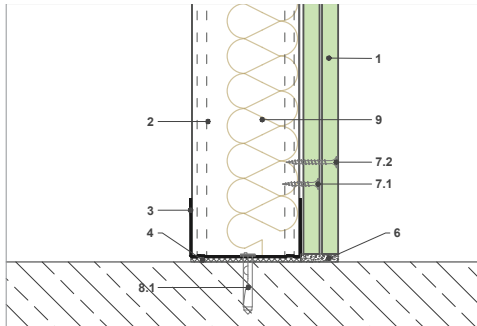
H03 T-Intersection



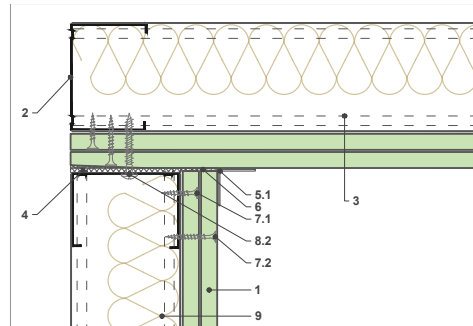
H04 Dilatation joint



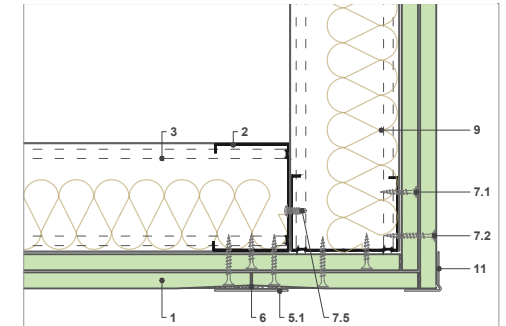
V03 Lower connection to solid concrete element



H05.1 Inner corner



H05.2 Outer corner



CERTIFIED SYSTEM COMPONENTS Technogips Pro

- 1. Gypsum Board Technogips Pro
- 2. Premium Profile Z140 CW / 0.6 mm
- 3. Premium Profile Z140 UW / 0.6 mm
- 4. Acoustic Tape

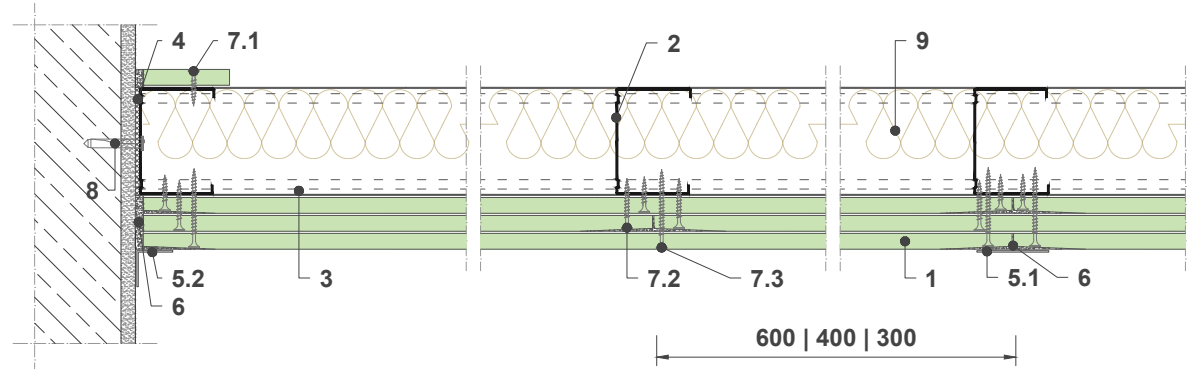
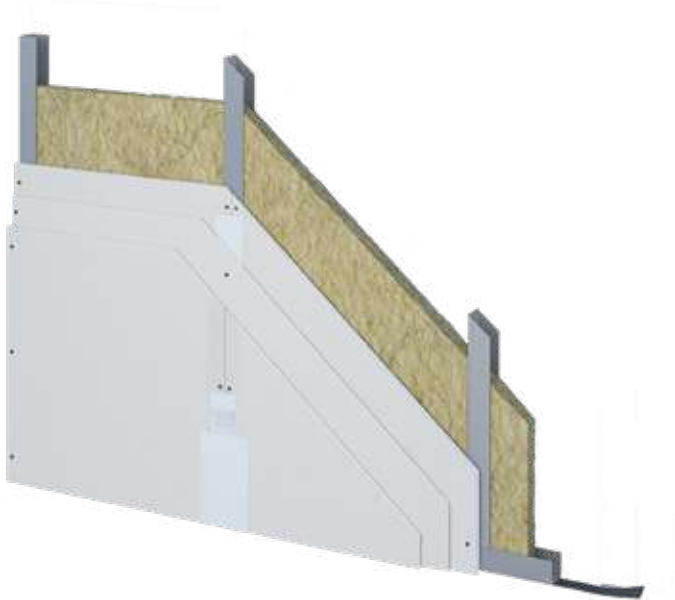
- 5.1 Joint Tape
- 5.2 Separation Strip TrennFix
- 6. Joint Filler FUGA
- 7.1 Drywall Screw 3.5 x 25 mm

- 7.2 Drywall Screw 3.5 x 35 / 45 mm
- 7.3 Drywall Screw 3.5 x 55 mm
- 7.4 Drywall Screw 4.2 x 70 mm
- 7.5 Self-drilling Screw TEX LB 4.2 x 13 mm

- 8.1 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm
- 8.2 Universal Screw FN 4.3 x 65
- 9. Mineral Wool
- 11. Corner Tape ALUX

SHAFT WALLS

Technogips Pro S1-3



Material Consumption ⁽¹⁾ per 1 m ²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	3.0	3.0	3.0
2	Premium Profile Z140 CW 0.6 mm	m'	2.0	2.8	3.8
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2	1.2
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	1.0	1.0	1.0
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.9	0.9	0.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.9	0.9	0.9
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	8.0	9.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 500 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 500 mm @ 15 mm boards	pcs	8.0	9.0	15.0
7.3	Drywall Screw 3.5 x 55 mm @ 250 mm @ 12.5 mm boards Drywall Screw 4.2 x 70 mm @ 250 mm @ 15 mm boards	pcs	15.0	23.0	30.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6	1.6
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	1.0	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9	0.9

 30 45 60 90 120 180

 Wall Self-Weight
up to **44 kg/m²**

 Wall Thickness
95 | 120 | 145 | 170 | 195 mm

 Permissible Height
up to **9.90 m**

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 5.4 m²/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 1.05 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

SHAFT WALLS Technogips Pro S1-3

SINGLE METAL STUD FRAME - TRIPLE LAYER CLADDING

Board		Wall Weight	Wall Thickness	Profile	Fire Resistance Class (without insulation)																		
Type	Thickness			Cavity	EI 0 ³⁾			EI 30			EI 45			EI 60			EI 90			EI 120			
	minimum	without insulation	Profiles Axial Distance, mm																				
	mm	kg/m²	mm	mm	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	600	400	300	
Permissible heights depending on the type of cladding, m ⁽¹⁾																							
A	3x12.5	30	87.5	CW 50	3.60	4.00	4.00																
H2	3x12.5	30	87.5		3.60	4.00	4.00																
DF	3x12.5	35	87.5		3.60	4.00	4.00																
DFH2	3x12.5	35	87.5		3.60	4.00	4.00																
Sound Comfort Extra DFIR	3x12.5	39	87.5		3.60	4.00	4.00																
Titan Board DFH1IR	3x12.5	42	87.5		3.60	4.00	4.00																
Blue Board GMDFH1IR	3x12.5	41	87.5		3.60	4.00	4.00																
DF	3X15	42	95		3.60	4.00	4.00	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60			
DFH2	3X15	42	95	3.60	4.00	4.00	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60				
A	3x12.5	30	112.5	CW 75	4.00	4.65	5.25																
H2	3x12.5	30	112.5		4.00	4.65	5.25																
DF	3x12.5	35	112.5		4.00	4.65	5.25																
DFH2	3x12.5	35	112.5		4.00	4.65	5.25																
Sound Comfort Extra DFIR	3x12.5	39	112.5		4.00	4.65	5.25																
Titan Board DFH1IR	3x12.5	42	112.5		4.00	4.65	5.25																
Blue Board GMDFH1IR	3x12.5	41	112.5		4.00	4.65	5.25																
DF	3X15	42	120		4.00	4.65	5.25	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00			
DFH2	3X15	42	120	4.00	4.65	5.25	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00				
A	3x12.5	30	137.5	CW 100	5.15	6.15	6.90																
H2	3x12.5	30	137.5		5.15	6.15	6.90																
DF	3x12.5	35	137.5		5.15	6.15	6.90																
DFH2	3x12.5	35	137.5		5.15	6.15	6.90																
Sound Comfort Extra DFIR	3x12.5	39	137.5		5.15	6.15	6.90																
Titan Board DFH1IR	3x12.5	42	137.5		5.15	6.15	6.90																
Blue Board GMDFH1IR	3x12.5	41	137.5		5.15	6.15	6.90																
DF	3X15	42	145		5.15	6.15	6.90	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00			
DFH2	3X15	42	145	5.15	6.15	6.90	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00				
A	3x12.5	32	162.5	CW 125	6.50	7.70	8.55																
H2	3x12.5	32	162.5		6.50	7.70	8.55																
DF	3x12.5	37	162.5		6.50	7.70	8.55																
DFH2	3x12.5	37	162.5		6.50	7.70	8.55																
Sound Comfort Extra DFIR	3x12.5	41	162.5		6.50	7.70	8.55																
Titan Board DFH1IR	3x12.5	44	162.5		6.50	7.70	8.55																
Blue Board GMDFH1IR	3x12.5	43	162.5		6.50	7.70	8.55																
DF	3X15	44	170		6.50	7.70	8.55	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00			
DFH2	3X15	44	170	6.50	7.70	8.55	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00				
A	3x12.5	32	187.5	CW 150	7.90	9.15	9.90																
H2	3x12.5	32	187.5		7.90	9.15	9.90																
DF	3x12.5	37	187.5		7.90	9.15	9.90																
DFH2	3x12.5	37	187.5		7.90	9.15	9.90																
Sound Comfort Extra DFIR	3x12.5	41	187.5		7.90	9.15	9.90																
Titan Board DFH1IR	3x12.5	44	187.5		7.90	9.15	9.90																
Blue Board GMDFH1IR	3x12.5	43	187.5		7.90	9.15	9.90																
DF	3X15	44	195		7.90	9.15	9.90	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00			
DFH2	3X15	44	195	7.90	9.15	9.90	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00				

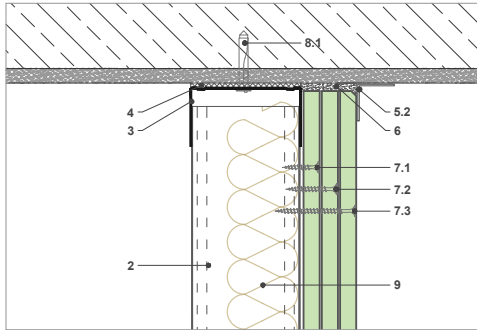
1) Permissible heights according to DIN 18 183 and additional cold static calculations.

2) Rw calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance $r > 5 \text{ kPa s/m}^2$.

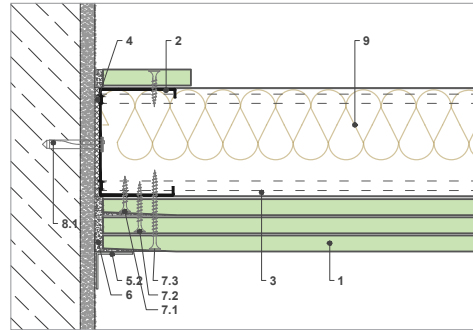
3) Permissible heights without fire protection

* Heights are achieved with insulation layer thickness of 50 mm and density min. 40 kg/m^3 , in acc. with EN 13162

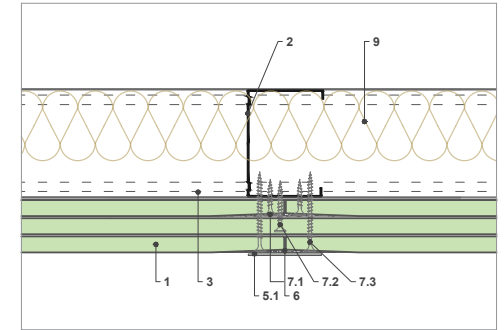
V01 Upper connection to solid concrete element



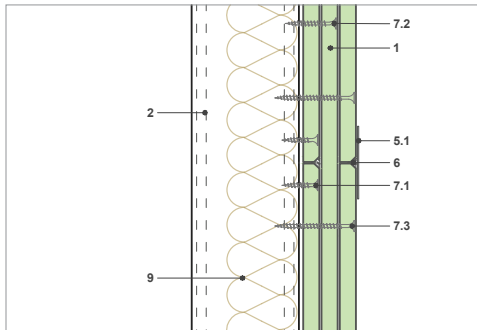
H01 Connection to solid concrete wall



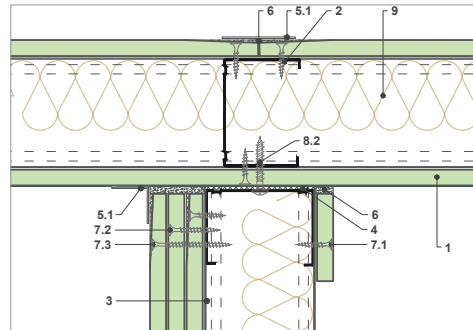
H02 Vertical Joint



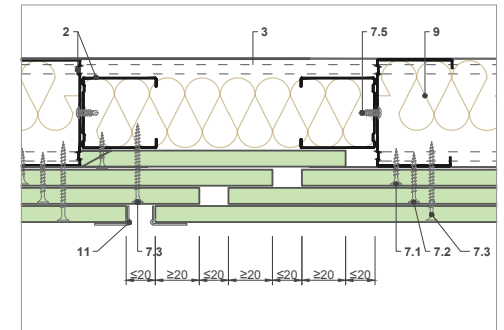
V02 Horizontal joint



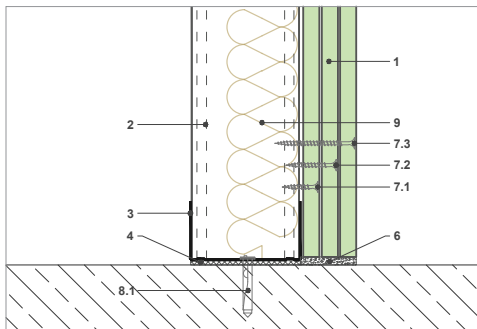
H03 T-Intersection



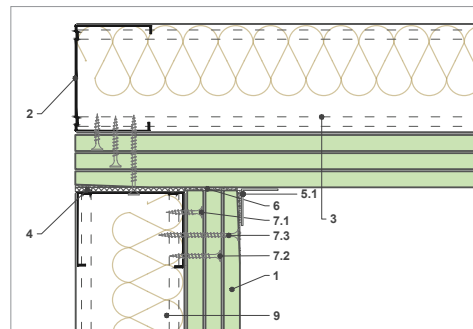
H04 Dilatation joint



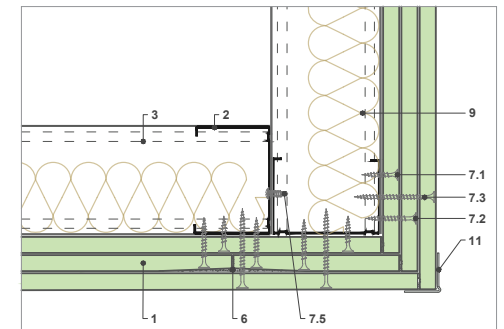
V03 Lower connection to solid concrete element



H05.1 Inner corner



H05.2 Outer corner

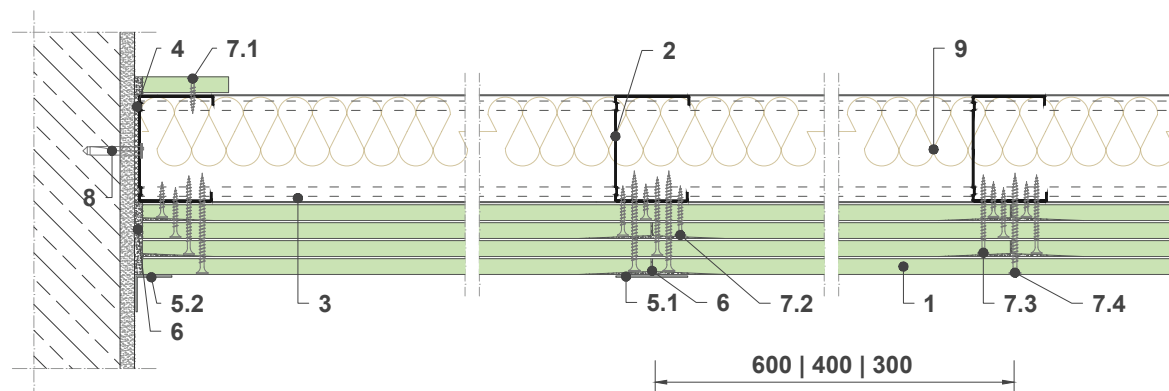
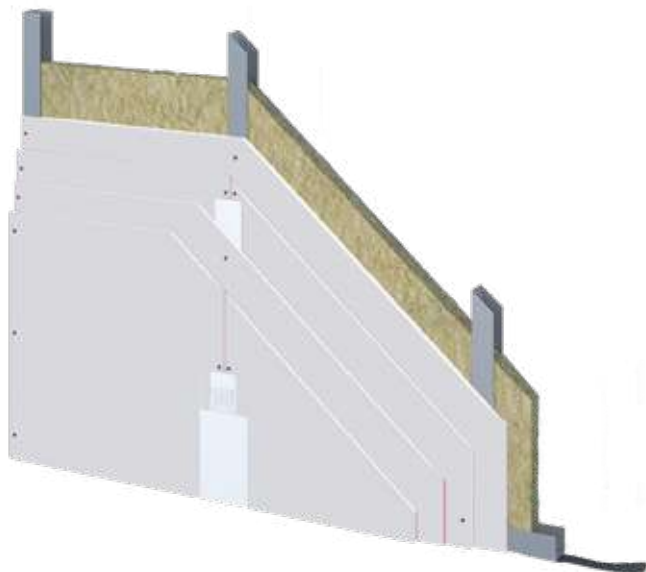


CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Universal Screw FN 4.3 x 65
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	9. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Corner Tape ALUX

SHAFT WALLS

Technogips Pro S1-4



Material Consumption ⁽¹⁾ per 1 m ²			Stud Spacing [mm]		
			600	400	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	4.0	4.0	4.0
2	Premium Profile Z140 CW 0.6 mm	m'	2.0	2.8	3.8
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2	1.2
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	1.0	1.0	1.0
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.9	0.9	0.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	1.2	1.2	1.2
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	8.0	9.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 500 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 500 mm @ 15.0 mm boards	pcs	8.0	9.0	15.0
7.3	Drywall Screw 3.5 x 55 mm @ 500 mm @ 12.5 mm boards Drywall Screw 4.2 x 70 mm @ 500 mm @ 15.0 mm boards	pcs	8.0	9.0	15.0
7.4	Drywall Screw 4.2 x 70 mm @ 250 mm	pcs	15.0	23.0	30.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6	1.6
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	1.0	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9	0.9


30
45
60
90
120
180


 Wall Self-Weight
 up to **58 kg/m²**


 Wall Thickness
100 | 125 | 150 | 175 | 200 mm


 Permissible Height
 up to **9.90 m**

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 7.2 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 1.4 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

SHAFT WALLS **Technogips Pro S1-4**
SINGLE METAL STUD FRAME - QUADRUPLE LAYER CLADDING



Board		Wall Weight	Wall Thickness	Profile	Fire Resistance Class (without insulation)												
Type	Thickness			Cavity	EI 0 ³⁾			EI 30		EI 45		EI 60		EI 90		EI 120	
	minimum				without insulation	Profiles Axial Distance, mm											
	mm	kg/m²	mm	mm	600	400	300	400	300	400	300	400	300	400	300	400	300
Permissible heights depending on the type of cladding, m ⁽¹⁾																	
A	4x12.5	40	100	CW 50	3.60	4.00	4.00										
H2	4x12.5	40	100		3.60	4.00	4.00										
DF	4x12.5	46	100		3.60	4.00	4.00										
DFH2	4x12.5	46	100		3.60	4.00	4.00										
Sound Comfort Extra DFIR	4x12.5	52	100		3.60	4.00	4.00										
Titan Board DFH1IR	4x12.5	56	100		3.60	4.00	4.00										
Blue Board GMDFH1IR	4x12.5	54	100		3.60	4.00	4.00										
DF	4x15	56	110		3.60	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DFH2	4x15	56	110		3.60	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
A	4x12.5	40	125	CW 75	4.00	4.65	5.25										
H2	4x12.5	40	125		4.00	4.65	5.25										
DF	4x12.5	46	125		4.00	4.65	5.25										
DFH2	4x12.5	46	125		4.00	4.65	5.25										
Sound Comfort Extra DFIR	4x12.5	52	125		4.00	4.65	5.25										
Titan Board DFH1IR	4x12.5	56	125		4.00	4.65	5.25										
Blue Board GMDFH1IR	4x12.5	54	125		4.00	4.65	5.25										
DF	4x15	56	135		4.00	4.65	5.25	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DFH2	4x15	56	135		4.00	4.65	5.25	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
A	4x12.5	40	150	CW 100	5.15	6.15	6.90										
H2	4x12.5	40	150		5.15	6.15	6.90										
DF	4x12.5	46	150		5.15	6.15	6.90										
DFH2	4x12.5	46	150		5.15	6.15	6.90										
Sound Comfort Extra DFIR	4x12.5	52	150		5.15	6.15	6.90										
Titan Board DFH1IR	4x12.5	56	150		5.15	6.15	6.90										
Blue Board GMDFH1IR	4x12.5	54	150		5.15	6.15	6.90										
DF	4x15	56	160		5.15	6.15	6.90	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DFH2	4x15	56	160		5.15	6.15	6.90	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
A	4x12.5	42	175	CW 125	6.50	7.70	8.55										
H2	4x12.5	42	175		6.50	7.70	8.55										
DF	4x12.5	48	175		6.50	7.70	8.55										
DFH2	4x12.5	48	175		6.50	7.70	8.55										
Sound Comfort Extra DFIR	4x12.5	54	175		6.50	7.70	8.55										
Titan Board DFH1IR	4x12.5	58	175		6.50	7.70	8.55										
Blue Board GMDFH1IR	4x12.5	56	175		6.50	7.70	8.55										
DF	4x15	58	185		6.50	7.70	8.55	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DFH2	4x15	58	185		6.50	7.70	8.55	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
A	4x12.5	42	200	CW 150	7.90	9.15	9.90										
H2	4x12.5	42	200		7.90	9.15	9.90										
DF	4x12.5	48	200		7.90	9.15	9.90										
DFH2	4x12.5	48	200		7.90	9.15	9.90										
Sound Comfort Extra DFIR	4x12.5	54	200		7.90	9.15	9.90										
Titan Board DFH1IR	4x12.5	58	200		7.90	9.15	9.90										
Blue Board GMDFH1IR	4x12.5	56	200		7.90	9.15	9.90										
DF	4x15	58	210		7.90	9.15	9.90	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
DFH2	4x15	58	210		7.90	9.15	9.90	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

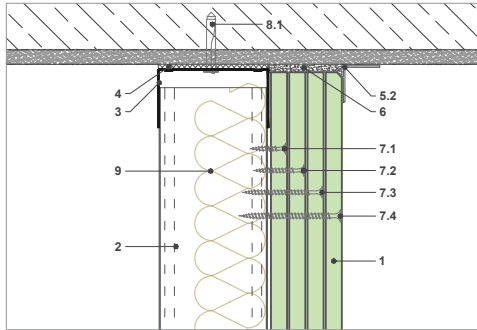
1) Permissible heights according to DIN 18 183 and additional cold static calculations.

2) Rw calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance $r > 5 \text{ kPa s/m}^2$.

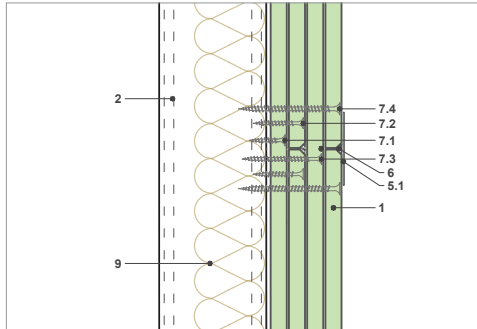
3) Permissible heights without fire protection

* Heights are achieved with insulation layer thickness of 50 mm and density min. 40 kg/m³, in acc. with EN 13162

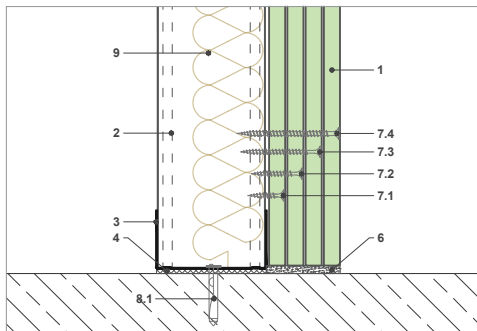
V01 Upper connection to solid concrete element



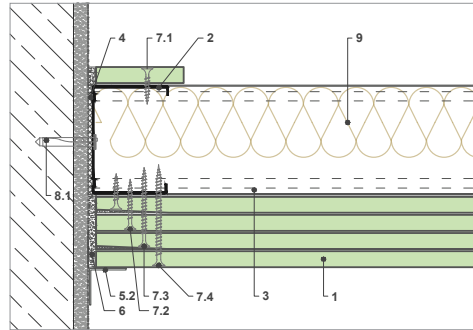
V02 Horizontal joint



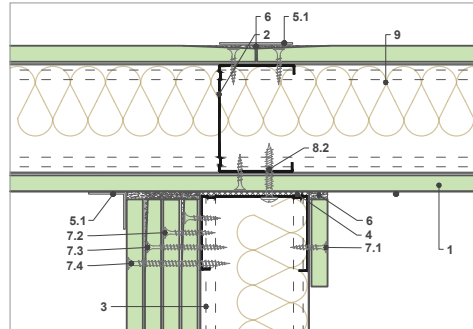
V03 Lower connection to solid concrete element



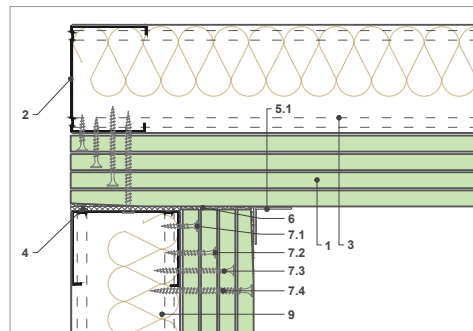
H01 Connection to solid concrete wall



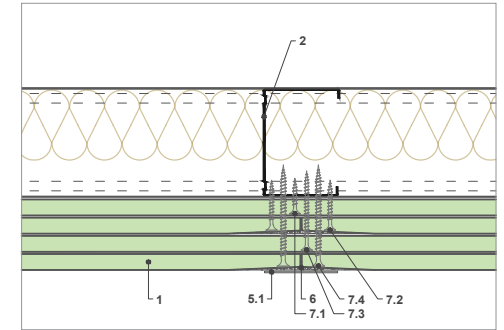
H03 T-Intersection



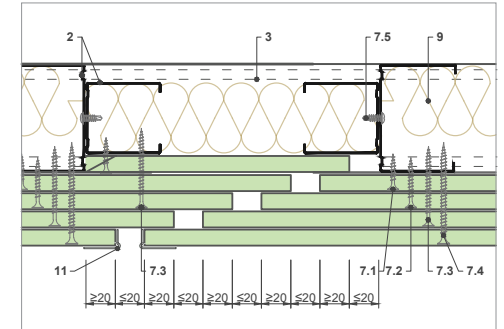
H05.1 Inner corner



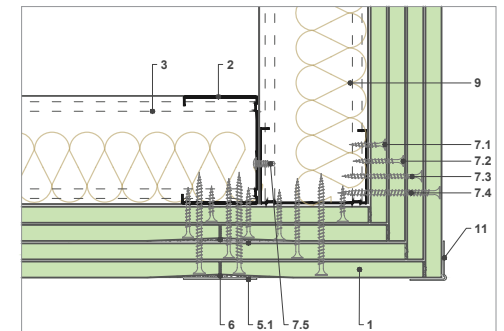
H02 Vertical Joint



H04 Dilatation joint



H05.2 Outer corner

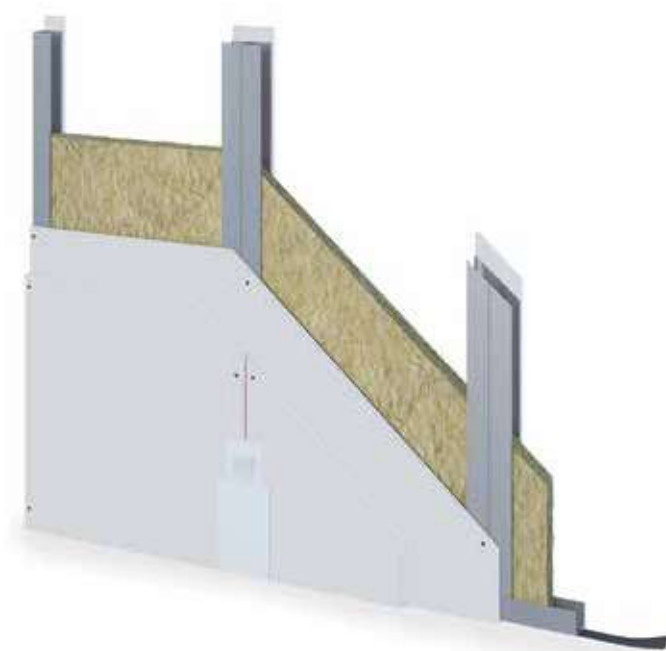


CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Universal Screw FN 4.3 x 65
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	9. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Corner Tape ALUX

SHAFT WALLS

Technogips Pro S2-2

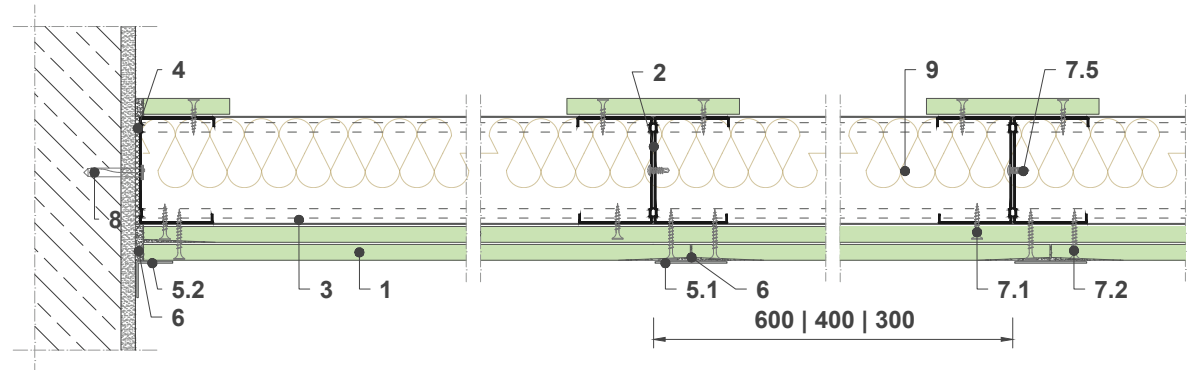


 **30** **45** **60** **90** **120** **180**

 Wall Self-Weight
up to **31 kg/m²**

 Wall Thickness
75 | 100 | 125 | 150 | 175 mm

 Permissible Height
up to **11.35 m**



Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]	
			600	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	2.3	2.5
2	Premium Profile Z140 CW 0.6 mm	m'	3.3	6.7
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	1.0	1.0
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.9	0.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	8.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15.0 mm boards	pcs	15.0	30.0
7.5	Self-drilling Screw TEX LB 4.2 x 13 mm @ 500 mm	pcs	4.0	8.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 3.6 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

SHAFT WALLS Technogips Pro S2-2

DOUBLE METAL STUD FRAME - DOUBLE LAYER CLADDING

Board		Wall Weight	Wall Thickness	Profile	Fire Resistance Class (without insulation)												
Type	Thickness			Cavity	EI 0 ³⁾		EI 30		EI 45		EI 60		EI 90		EI 120		
	minimum	without insulation			Profiles Axial Distance, mm												
	mm	kg/m²	mm	mm	600	300	600	300	600	300	600	300	600	300	600	300	
Permissible heights depending on the type of cladding, m ¹⁾																	
A	2x12.5	21	75	CW 50	4.00	4.05											
H2	2x12.5	21	75		4.00	4.05											
DF	2x12.5	24	75		4.00	4.05	4.00*	4.00*	4.00*	4.00*							
DFH2	2x12.5	24	75		4.00	4.05	4.00*	4.00*	4.00*	4.00*							
Sound Comfort Extra DFIR	2x12.5	27	75		4.00	4.05	4.00*	4.00*	4.00*	4.00*							
Titan Board DFH1IR	2x12.5	29	75		4.00	4.05	4.00*	4.00*	4.00*	4.00*							
Blue Board GMDFH1IR	2x12.5	28	75		4.00	4.05	4.00*	4.00*	4.00*	4.00*							
DF	2x15	29	80		4.00	4.30	4.00*	4.00*	4.00*	4.00*	3.35	3.35					
DFH2	2x15	29	80		4.00	4.30	4.00*	4.00*	4.00*	4.00*	3.35	3.35					
A	2x12.5	21	100	CW 75	4.55	6.00											
H2	2x12.5	21	100		4.55	6.00											
DF	2x12.5	24	100		4.55	6.00	4.00*	4.00*	4.00*	4.00*							
DFH2	2x12.5	24	100		4.55	6.00	4.00*	4.00*	4.00*	4.00*							
Sound Comfort Extra DFIR	2x12.5	27	100		4.55	6.00	4.00*	4.00*	4.00*	4.00*							
Titan Board DFH1IR	2x12.5	29	100		4.55	6.00	4.00*	4.00*	4.00*	4.00*							
Blue Board GMDFH1IR	2x12.5	28	100		4.55	6.00	4.00*	4.00*	4.00*	4.00*							
DF	2x15	29	105		4.75	6.30	4.00	4.00	4.00	4.00	4.00	4.00					
DFH2	2x15	29	105		4.75	6.30	4.00	4.00	4.00	4.00	4.00	4.00					
A	2x12.5	21	125	CW 100	6.15	8.00											
H2	2x12.5	21	125		6.15	8.00											
DF	2x12.5	24	125		6.15	8.00	4.00*	4.00*	4.00*	4.00*							
DFH2	2x12.5	24	125		6.15	8.00	4.00*	4.00*	4.00*	4.00*							
Sound Comfort Extra DFIR	2x12.5	27	125		6.15	8.00	4.00*	4.00*	4.00*	4.00*							
Titan Board DFH1IR	2x12.5	29	125		6.15	8.00	4.00*	4.00*	4.00*	4.00*							
Blue Board GMDFH1IR	2x12.5	28	125		6.15	8.00	4.00*	4.00*	4.00*	4.00*							
DF	2x15	29	130		6.40	8.30	4.00	4.00	4.00	4.00	4.00	4.00					
DFH2	2x15	29	130		6.40	8.30	4.00	4.00	4.00	4.00	4.00	4.00					
A	2x12.5	23	150	CW 125	7.75	9.70											
H2	2x12.5	23	150		7.75	9.70											
DF	2x12.5	26	150		7.75	9.70	4.00*	4.00*	4.00*	4.00*							
DFH2	2x12.5	26	150		7.75	9.70	4.00*	4.00*	4.00*	4.00*							
Sound Comfort Extra DFIR	2x12.5	29	150		7.75	9.70	4.00*	4.00*	4.00*	4.00*							
Titan Board DFH1IR	2x12.5	31	150		7.75	9.70	4.00*	4.00*	4.00*	4.00*							
Blue Board GMDFH1IR	2x12.5	30	150		7.75	9.70	4.00*	4.00*	4.00*	4.00*							
DF	2x15	31	155		8.05	9.95	4.00	4.00	4.00	4.00	4.00	4.00					
DFH2	2x15	31	155		8.05	9.95	4.00	4.00	4.00	4.00	4.00	4.00					
A	2x12.5	23	175	CW 150	9.25	11.10											
H2	2x12.5	23	175		9.25	11.10											
DF	2x12.5	26	175		9.25	11.10	4.00*	4.00*	4.00*	4.00*							
DFH2	2x12.5	26	175		9.25	11.10	4.00*	4.00*	4.00*	4.00*							
Sound Comfort Extra DFIR	2x12.5	29	175		9.25	11.10	4.00*	4.00*	4.00*	4.00*							
Titan Board DFH1IR	2x12.5	31	175		9.25	11.10	4.00*	4.00*	4.00*	4.00*							
Blue Board GMDFH1IR	2x12.5	30	175		9.25	11.10	4.00*	4.00*	4.00*	4.00*							
DF	2x15	31	180		9.50	11.35	4.00	4.00	4.00	4.00	4.00	4.00					
DFH2	2x15	31	180		9.50	11.35	4.00	4.00	4.00	4.00	4.00	4.00					

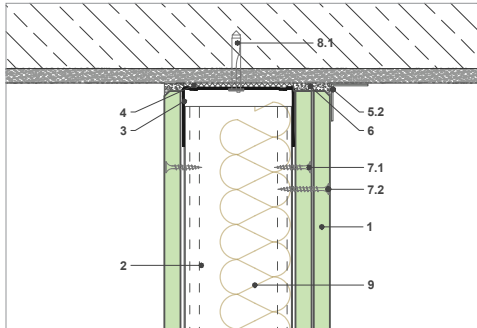
1) Permissible heights according to DIN 18 183 and additional cold static calculations.

2) Rw calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance $r > 5 \text{ kPa s/m}^2$.

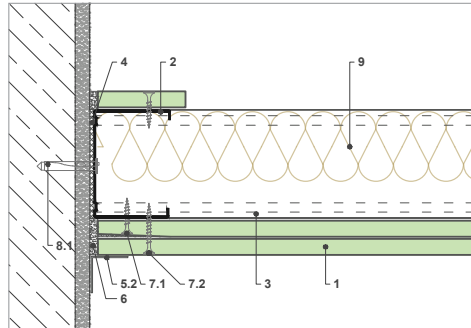
3) Permissible heights without fire protection

* Heights are achieved with insulation layer thickness of 50 mm and density min. 40 kg/m³, in acc. with EN 13162

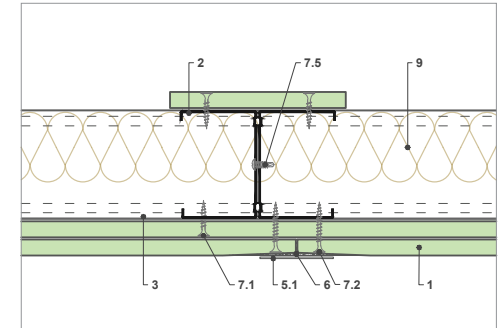
V01 Upper connection to solid concrete element



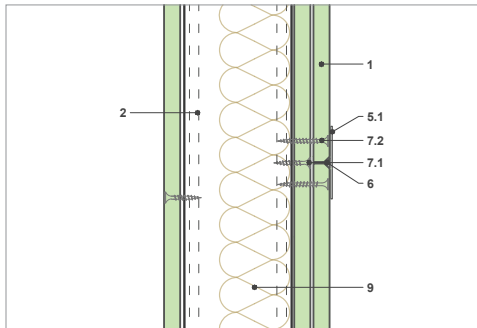
H01 Connection to solid concrete wall



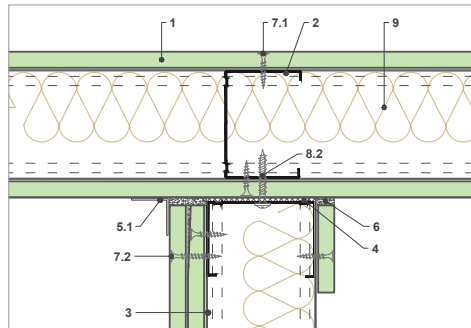
H02 Vertical Joint



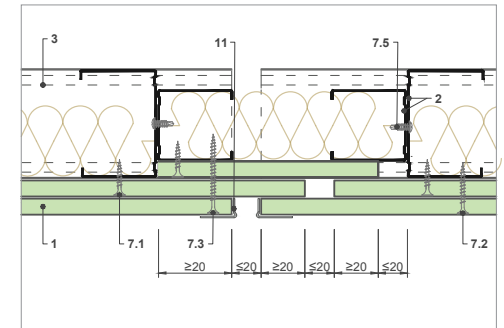
V02 Horizontal joint



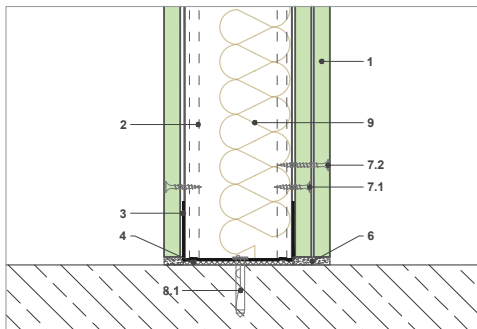
H03 T-Intersection



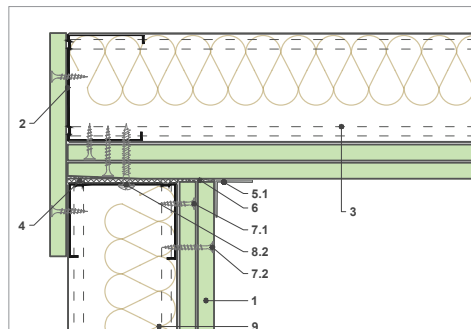
H04 Dilatation joint



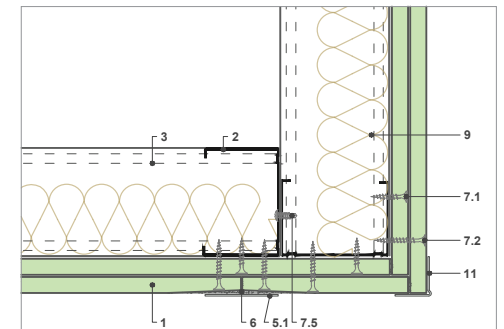
V03 Lower connection to solid concrete element



H05.1 Inner corner



H05.2 Outer corner

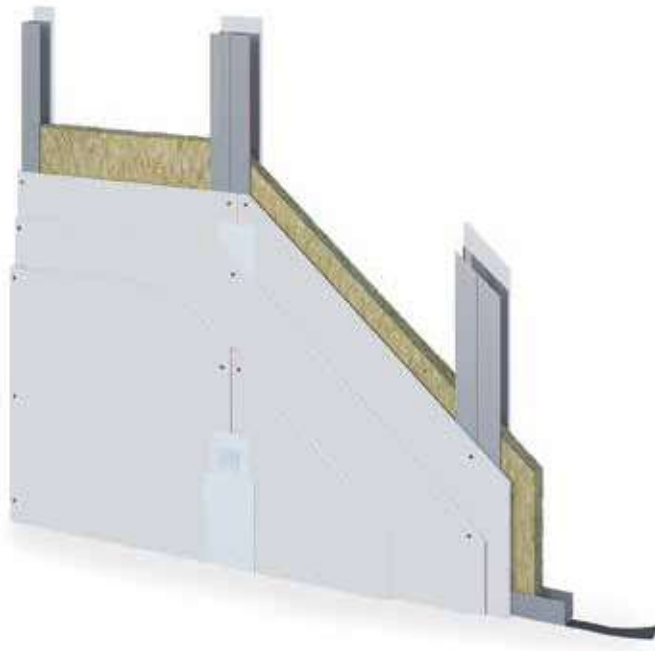


CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Universal Screw FN 4.3 x 65
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	9. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Corner Tape ALUX

SHAFT WALLS

Technogips Pro S2-3

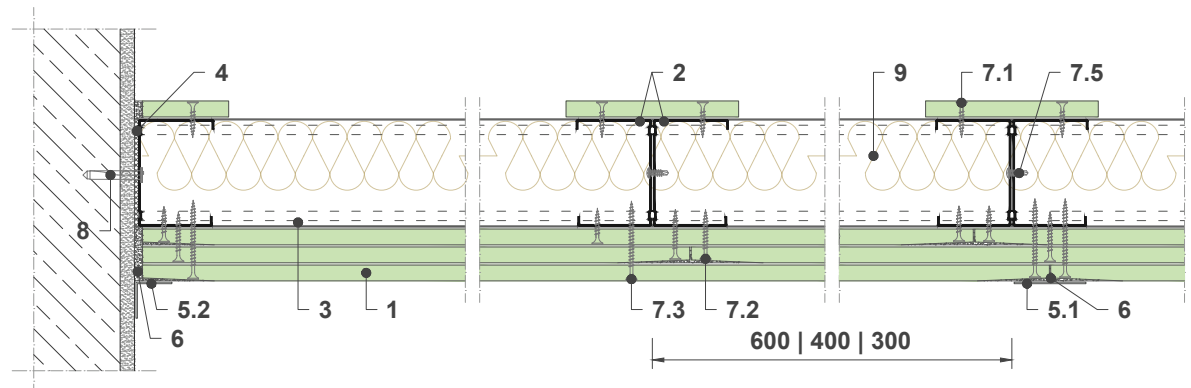



30
45
60
90
120


 Wall Self-Weight
 up to **45 kg/m²**


 Wall Thickness
87.5 | 112.5 | 137.5 | 162.5 | 187.5 mm


 Permissible Height
 up to **11.75 m**



Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]	
			600	300
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	3.3	3.5
2	Premium Profile Z140 CW 0.6 mm	m'	3.3	6.7
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	1.0	1.0
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.9	0.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.9	0.9
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	8.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 500 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 500 mm @ 15.0 mm boards	pcs	8.0	15.0
7.3	Drywall Screw 3.5 x 55 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 70 mm @ 250 mm @ 15.0 mm boards	pcs	15.0	30.0
7.5	Self-drilling Screw TEX LB 4.2 x 13 mm @ 500 mm	pcs	4.0	8.0
8	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 5.4 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 1.05 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

SHAFT WALLS **Technogips S2-3**
DOUBLE METAL STUD FRAME - TRIPLE LAYER CLADDING



Board		Wall Weight without insulation kg/m²	Wall Thickness mm	Profile	Fire Resistance Class (without insulation)											
Type	Thickness			Cavity	EI 0 ³⁾		EI 30		EI 45		EI 60		EI 90		EI 120	
	minimum mm				Profiles Axial Distance, mm											
	mm		mm	mm	600	300	600	300	600	300	600	300	600	300	600	300
Permissible heights depending on the type of cladding, m ¹⁾																
A	3x12.5	32	87.5	CW 50	4.00	4.80										
H2	3x12.5	32	87.5		4.00	4.80										
DF	3x12.5	36	87.5		4.00	4.80										
DFH2	3x12.5	36	87.5		4.00	4.80										
Sound Comfort Extra DFIR	3x12.5	40	87.5		4.00	4.80										
Titan Board DFH1IR	3x12.5	43	87.5		4.00	4.80										
Blue Board GMDFH1IR	3x12.5	42	87.5		4.00	4.80										
DF + DF **	2x12.5 + 15	38	90		4.00	4.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*		
DF	3x15	43	95		4.00	4.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*		
DFH2	3x15	43	95		4.00	4.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*		
A	3x12.5	32	112.5	CW 75	5.25	6.80										
H2	3x12.5	32	112.5		5.25	6.80										
DF	3x12.5	36	112.5		5.25	6.80										
DFH2	3x12.5	36	112.5		5.25	6.80										
Sound Comfort Extra DFIR	3x12.5	40	112.5		5.25	6.80										
Titan Board DFH1IR	3x12.5	43	112.5		5.25	6.80										
Blue Board GMDFH1IR	3x12.5	42	112.5		5.25	6.80										
DF + DF **	2x12.5 + 15	39	115		5.25	6.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*		
DF	3x15	43	120		5.25	6.80	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
DFH2	3x15	43	120		5.25	6.80	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
A	3x12.5	32	137.5	CW 100	6.90	8.80										
H2	3x12.5	32	137.5		6.90	8.80										
DF	3x12.5	36	137.5		6.90	8.80										
DFH2	3x12.5	36	137.5		6.90	8.80										
Sound Comfort Extra DFIR	3x12.5	40	137.5		6.90	8.80										
Titan Board DFH1IR	3x12.5	43	137.5		6.90	8.80										
Blue Board GMDFH1IR	3x12.5	42	137.5		6.90	8.80										
DF + DF **	2x12.5 + 15	39	140		6.90	8.80	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*		
DF	3x15	43	145		6.90	8.80	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
DFH2	3x15	43	145		6.90	8.80	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
A	3x12.5	34	162.5	CW 125	8.55	10.30										
H2	3x12.5	34	162.5		8.55	10.30										
DF	3x12.5	38	162.5		8.55	10.30										
DFH2	3x12.5	38	162.5		8.55	10.30										
Sound Comfort Extra DFIR	3x12.5	42	162.5		8.55	10.30										
Titan Board DFH1IR	3x12.5	45	162.5		8.55	10.30										
Blue Board GMDFH1IR	3x12.5	44	162.5		8.55	10.30										
DF + DF **	2x12.5 + 15	39	165		8.55	10.30	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*		
DF	3x15	45	170		8.55	10.30	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
DFH2	3x15	45	170		8.55	10.30	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
A	3x12.5	34	187.5	CW 150	9.90	11.75										
H2	3x12.5	34	187.5		9.90	11.75										
DF	3x12.5	38	187.5		9.90	11.75										
DFH2	3x12.5	38	187.5		9.90	11.75										
Sound Comfort Extra DFIR	3x12.5	42	187.5		9.90	11.75										
Titan Board DFH1IR	3x12.5	45	187.5		9.90	11.75										
Blue Board GMDFH1IR	3x12.5	44	187.5		9.90	11.75										
DF + DF **	2x12.5 + 15	39	190		9.90	11.75	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*	4.00*		
DF	3x15	45	195		9.90	11.75	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		
DFH2	3x15	45	195		9.90	11.75	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00		

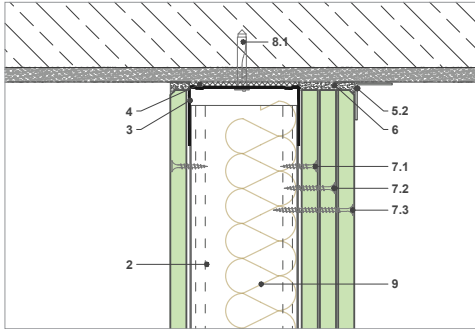
1) Permissible heights according to DIN 18 183 and additional cold static calculations.

2) Rw calculation value of sound reduction index of the separating partition walls according to EN ISO 140-3 and EN ISO 717-1 and axial space between profiles 600 mm. The values are achieved with insulation according to EN 13162 and air flow resistance $r > 5 \text{ kPa s/m}^2$.

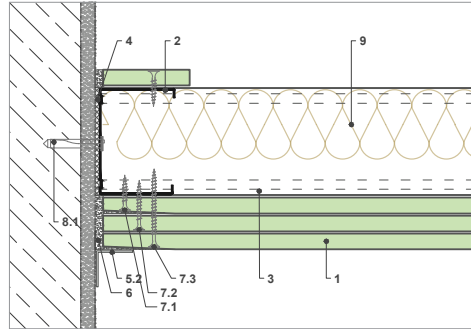
3) Permissible heights without fire protection

* Heights are achieved with insulation layer thickness of 50 mm and density min. 40 kg/m³, in acc. with EN 13162

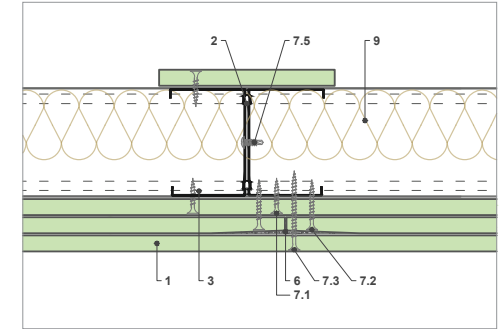
V01 Upper connection to solid concrete element



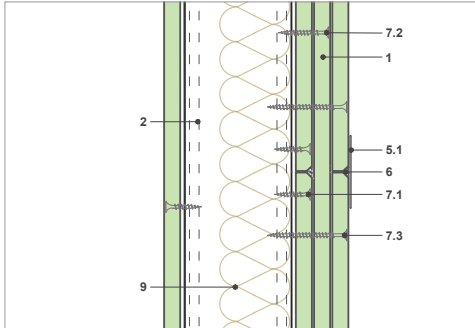
H01 Connection to solid concrete wall



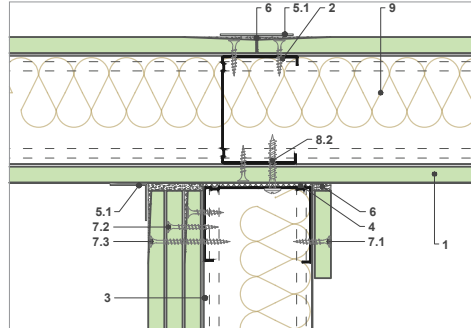
H02 Vertical Joint



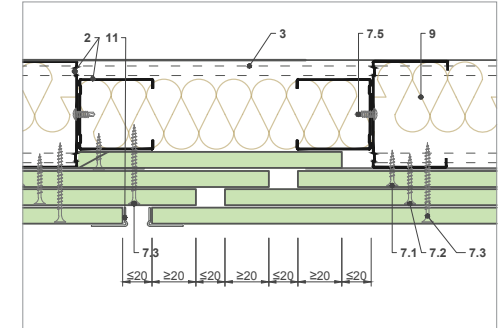
V02 Horizontal joint



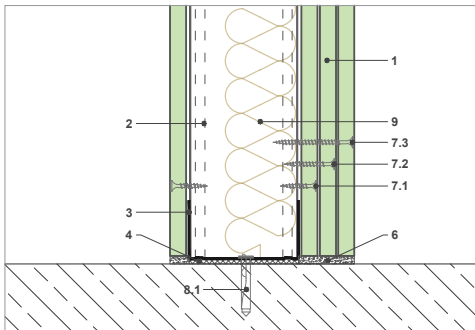
H03 T-intersection



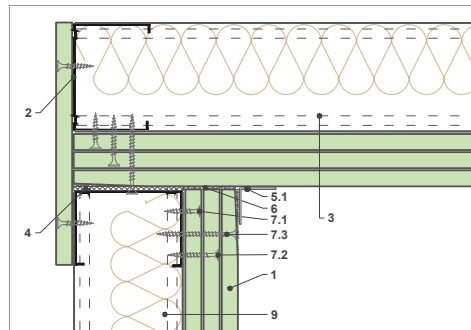
H04 Dilatation joint



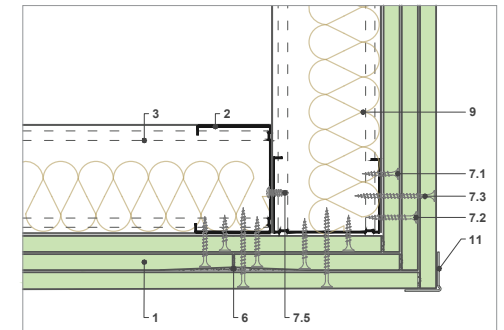
V03 Lower connection to solid concrete element



H05.1 Inner corner

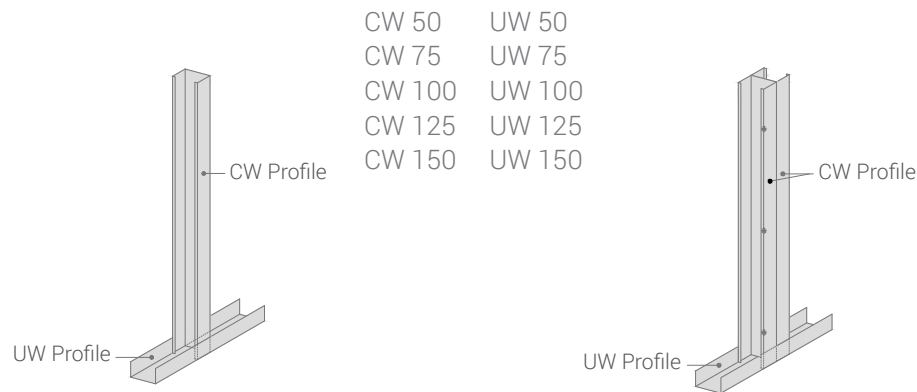


H05.2 Outer corner



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm
2. Premium Profile Z140 CW / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Universal Screw FN 4.3 x 65
3. Premium Profile Z140 UW / 0.6 mm	6. Joint Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	9. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	11. Corner Tape ALUX



S 1-2 / S 1-3 / S 1-4

S 2-2 / S 2-3

Vertical Extension of Profiles

The profiles extension should be installed at alternating sequence, at top and bottom end of the profile.

Installation of the peripheral profiles to the main structure

1. Mark the desired position of the partition wall on the floor and walls using a laser level or a chalk line.
2. The back side of the peripheral horizontal UW profiles and the end vertical CW profiles which are in direct contact with the surrounding structures need to be insulated with an acoustic foam tape for better sound insulation.
The width of the acoustic foam tape is based on the width of the profile used.
3. In accordance with the prepared marking, the peripheral profiles are fixed using suitable dowels at 50 mm from each end of the profile and at 500 mm along its length, but not less than 3 fasteners per profile.

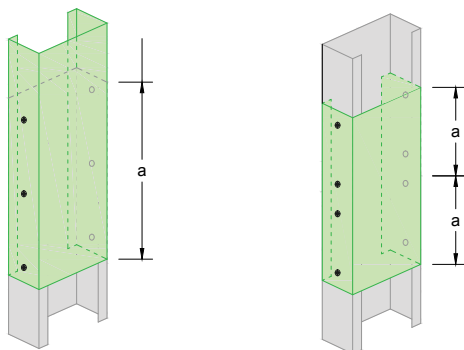
Installation of the vertical CW

1. The vertical CW profiles of the metal structure are mounted between the upper and the lower horizontal UW profiles, with axial distance between the profiles determined by the height of the wall. The higher the wall, the shorter the distance. The stud spacing of the vertical profiles can be 600, 400 or 300 mm.
2. The length of the vertical profiles should be 10 mm shorter than floor to ceiling distance.
3. In case of subsequent ceramic tile coatings, the vertical profiles need to be mounted at axial distance of max 400 mm or the cladding should consist of minimum two layers of plasterboard.

Wall height ≤ 4 m

Without additional profile

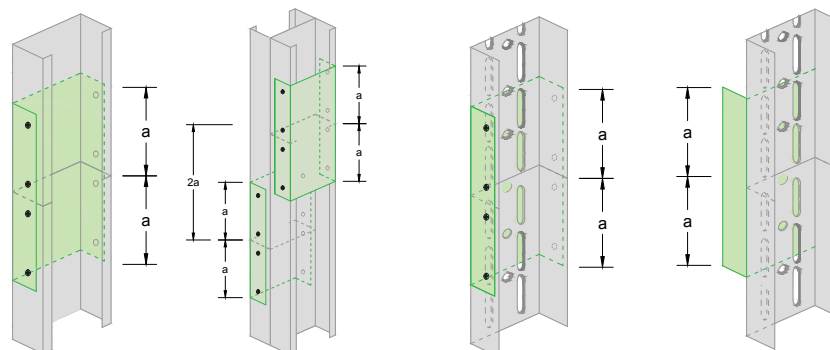
With additional CW profile



Wall height > 4 m

With additional UW profile

With additional UA profile

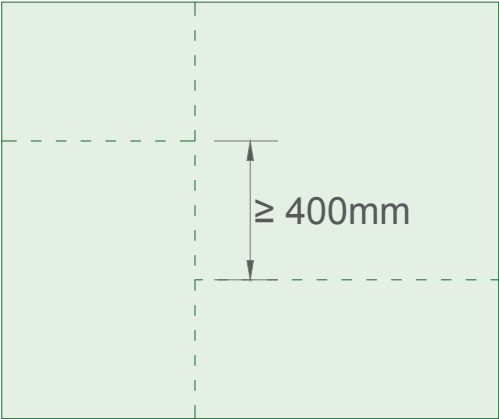


Profile	Overlapping - a
CW 50 / UA 50	≥ 500 mm
CW 75 / UA 75	≥ 750 mm
CW 100 / UA 100	≥ 1000 mm
CW 125 / UA 125	≥ 1250 mm
CW 150 / UA 150	≥ 1500 mm

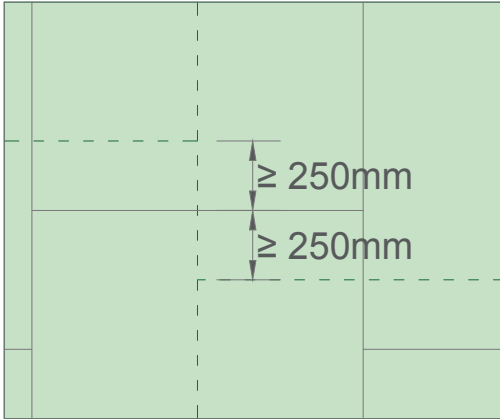
Fixing the additional profile with 4 Self-drilling Screws TEX LB 4.2x13 on each side of the profile, according to scheme.

CLADDING PATTERN

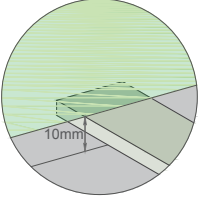
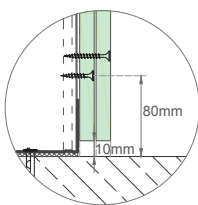
First / Third Layer



Second / Fourth Layer



Frame Openings

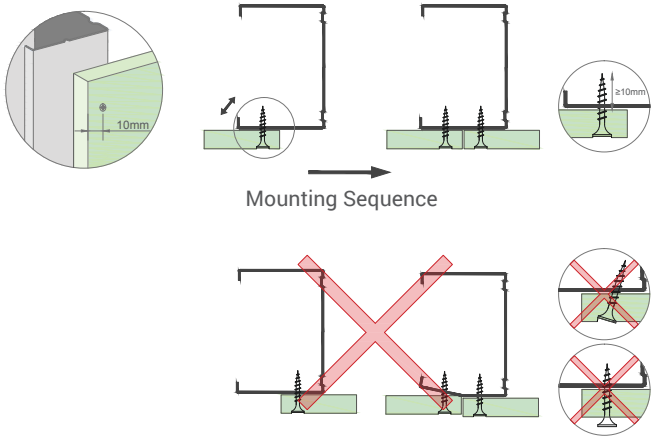
When installing the boards, a gap of minimum 10 mm should be left at the lower connection to the solid concrete floor. Joints on opposite sides of the partition, both horizontal and vertical should be staggered.
For multi-layer cladding, second layer should be staggered both horizontally and vertically.

Fasteners

Drywall screw TN 3.5 x 25/35/45/50 or 4.2/70 with sharp point for grid with thickness of the metal profiles < 0.7 mm.
Self-drilling screw TB 3.5 x 25/35/45/50 with self-drilling point for grid with thickness of the metal profiles 0.7 ÷ 2.0 mm.

Length of fasteners				
Boards thickness	1st Layer	2nd Layer	3rd Layer	4th Layer
9.5 mm	3.5 x 25	3.5 x 35	x	x
12.5 mm	3.5 x 25	3.5 x 35	3.5 x 55	4.2 x 70
15.0 mm	3.5 x 25	3.5 x 45	3.5 x 55	4.2 x 70
2 x 12.5 mm + 15.0 mm	3.5 x 25	3.5 x 35	3.5 x 55	x

Axial distance between fasteners				
Number of layers	1st Layer	2nd Layer	3rd Layer	4th Layer
Single	250	x	x	x
Double	500	250	x	x
Triple	500	500	250	x
Quadruple	500	500	500	250



The screw should be installed in a way that its head is right beneath the surface of the boards with approx. 1 mm.
Fastening the boards begins from the open part of the CW flange and continue in the direction of its base.

Surface quality levels

According to Eurogypsum's classification – European federation of the gypsum product manufacturing industry.
Developed and established, the 4 levels of quality finish classification for plasterboard cladding aims to provide clear definitions thus helping to reduce subjective judging of the end result.

Level	Aesthetic Requirements	Finish Surface Suitability	Application	Suitable Product
Q1 (basic)	For surfaces without aesthetic requirements	Ceramic tiles, decorative relief plasters with a thickness of more than 2 mm, etc. Corridors and ceilings of service rooms.	Filling the joints and reinforcing with tape. Filling the screw heads. In multi-layer systems and without fire protection requirements, the transition layers do not have to be reinforced with tape.	FUGA FUGA hydro FUGA & FINISH Light
Q2 (standard)	Standard level of completion.	Laying wallpaper with a medium or rough structure. Matt disperse and other paints with filler, which are applied with an ordinary paint roller. Decorative thin-layer plasters or skim coats with a thickness of 1 mm.	Fully finished and dried level Q1. Skim-coating and widening of the joint area to achieve a smooth transition of the surface. Laying a second layer on the screw heads. Forming internal and external corners. If necessary, polish the areas with fine sandpaper.	FUGA FUGA hydro FUGA & FINISH Light
Q3 (high)	High level - some shading still possible.	Laying thin and fine wallpaper Matt disperse and other paints with filler, which are applied with an ordinary paint roller. Decorative thin-layer plasters or skim coats with a thickness of 1 mm.	Fully finished and dried level Q2. Fine complete skim-coating of the surface, including, if necessary, polishing with fine sandpaper. Rough areas and imperfections are not allowed, but are not excluded.	SATEN FUGA & FINISH Light
Q4 (premium)	Premium end - minimized appearance of marks and traces.	Surfaces with requirements for extremely high surface quality. Surfaces to be treated with glossy paints and coatings. Premises with spot or bright light.	Fully finished and dried level Q2. Fine complete skim-coating of the surface with a layer <3 mm. Mandatory thorough inspection of the entire surface with directional LED light and polishing with fine sandpaper. Rough sections and imperfections are not allowed.	SATEN FUGA & FINISH Light

Additional Information

Untreated joints and surfaces are suitable for temporary construction or when the finish coat has not been determined.
Quality level Q2 does not ensure that marks and spots under the finishing layer will not be visible, particularly under bright or shallow light. These effects can be reduced by continuing with the next level Q3, which includes a thorough coating of the entire plasterboard surface.
If the finishing level of the surface is not specified, then by default quality level Q2 is accepted as sufficient.
It is important to note that quality level Q3 allows partly transparent areas in the jointing between the plasterboards especially under the effect of bright shallow light or in case of glossy finishing. If higher demands are made on quality of the finished surface we recommend the next quality level Q4.

Joint Treatment

Application Conditions

The premise and substrate temperature must not be lower than 8 ° C and must be kept constant for at least 2 days before the joints are treated. Sudden temperature changes when ventilating the premises must be prevented. The flatness and quality of the installation of the boards must also be checked. In the presence of poorly screwed screws, they must be tightened to ensure the flatness of the plasterboard surface. Correct screws to be used with screw head just below the board surface.

Level Q1

First coat of Technogips Pro joint filler should be applied with joint knife of sufficient width beyond both sides of the center of the joint. Technogips Pro joint tape should be embedded into the joint filler to reinforce the joint between two boards.

Applying a second thin coat of the joint filler to level the joint with a width of approx. 80 mm

The visible screw heads should be also filled in.

In multi-layer systems and no fire protection requirements, the lower layers do not have to be reinforced with tape. In the case of fire protection systems, the reinforcement of the joints of all layers with joint tape is mandatory.

Level Q2

To be able to continue with level Q2 – aligning the joint area with continuous transition to the board surface, the absolutely necessary requirement is the first layer, level Q1 to be completely dried (this could take up to 24 hours). A thin leveling coat is applied on the joint with a width of approx. 300 mm for tapered (TE) edging and approx. 400 mm for square (SE) edging. This is sufficient to ensure a continuous gradual transition from the joint to the wallboard surface. The screw heads to be covered with second coat of the compound.

The inner and outer corners should be formed. The outer corners must be formed with an Aluminum angle bead, which must be fixed and leveled with small part of the compound. For a stronger connection and maximum protection against cracks, additional reinforcement with fiberglass tape is recommended at the transition between the corner and the plasterboard. The inner corners to be reinforced with paper tape and compound.

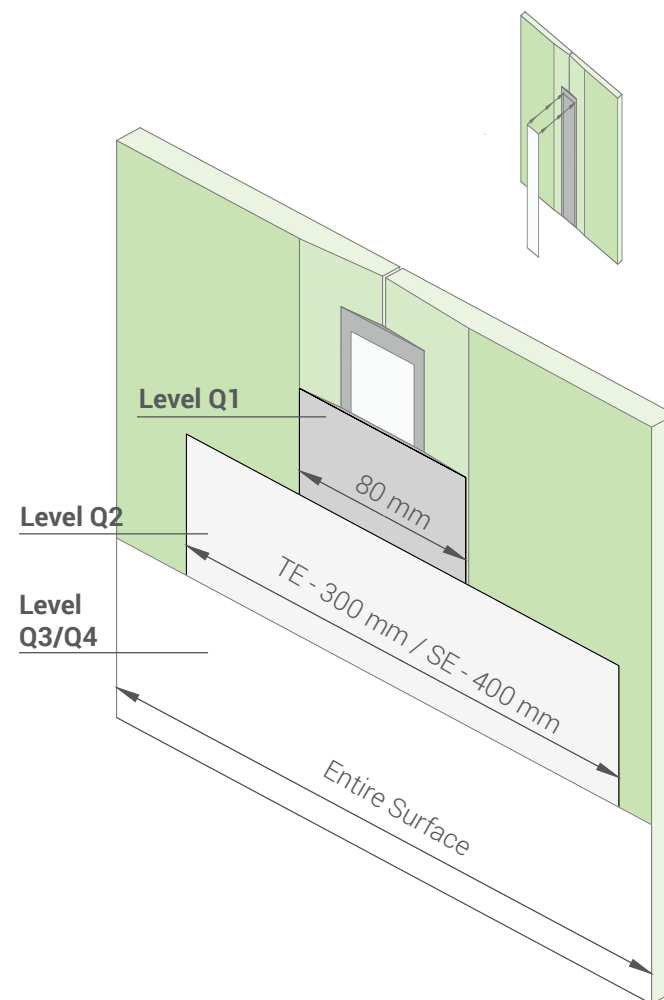
Level Q3

To be able to continue with level Q3 – complete skim coating of the surface, the absolutely necessary requirement is the previous stage, level Q2 to be completely dried (this could take up to 8 hours). With rectilinear moves, holding the drywall trowel under 30°, with rectilinear moves spread a thin layer of the compound. Typically, one or two moves are sufficient to even up all physical ridges and grooves, adding more of the mixture if necessary.

If needed, the surface could be smoothed with fine sandpaper after complete drying of the skim coat.

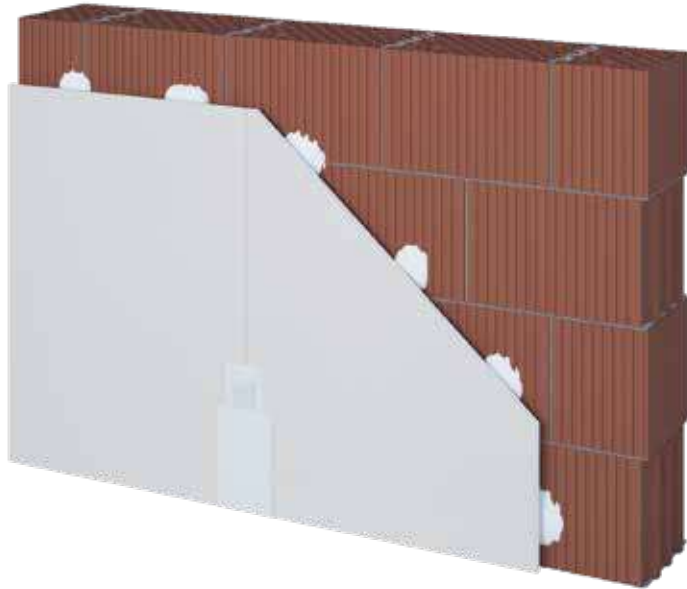
Level Q4

It is mandatory that the previous layer - level Q2 (Q3) is finished and dry (takes no more than 24 hours). A thin layer (no more than 3 mm) of the compound to be applied over the entire surface of the wall. Then smooth the surface using a skimming spatula. After the wall is completely dry, all imperfections must be smoothed with fine sandpaper. Using LED floodlight will help you spot them easily.

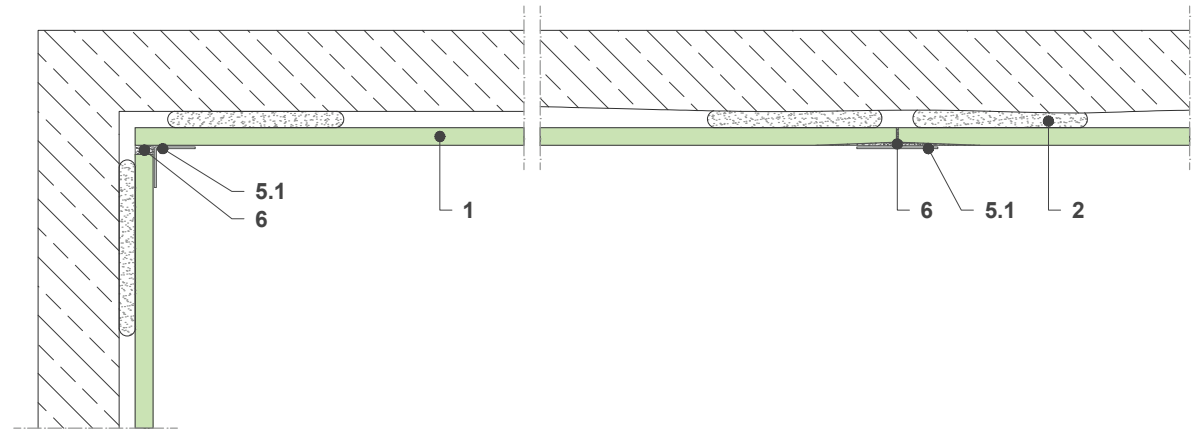


WALL LININGS

Technogips Pro L0-1



Permissible Height
up to **3.00 m**

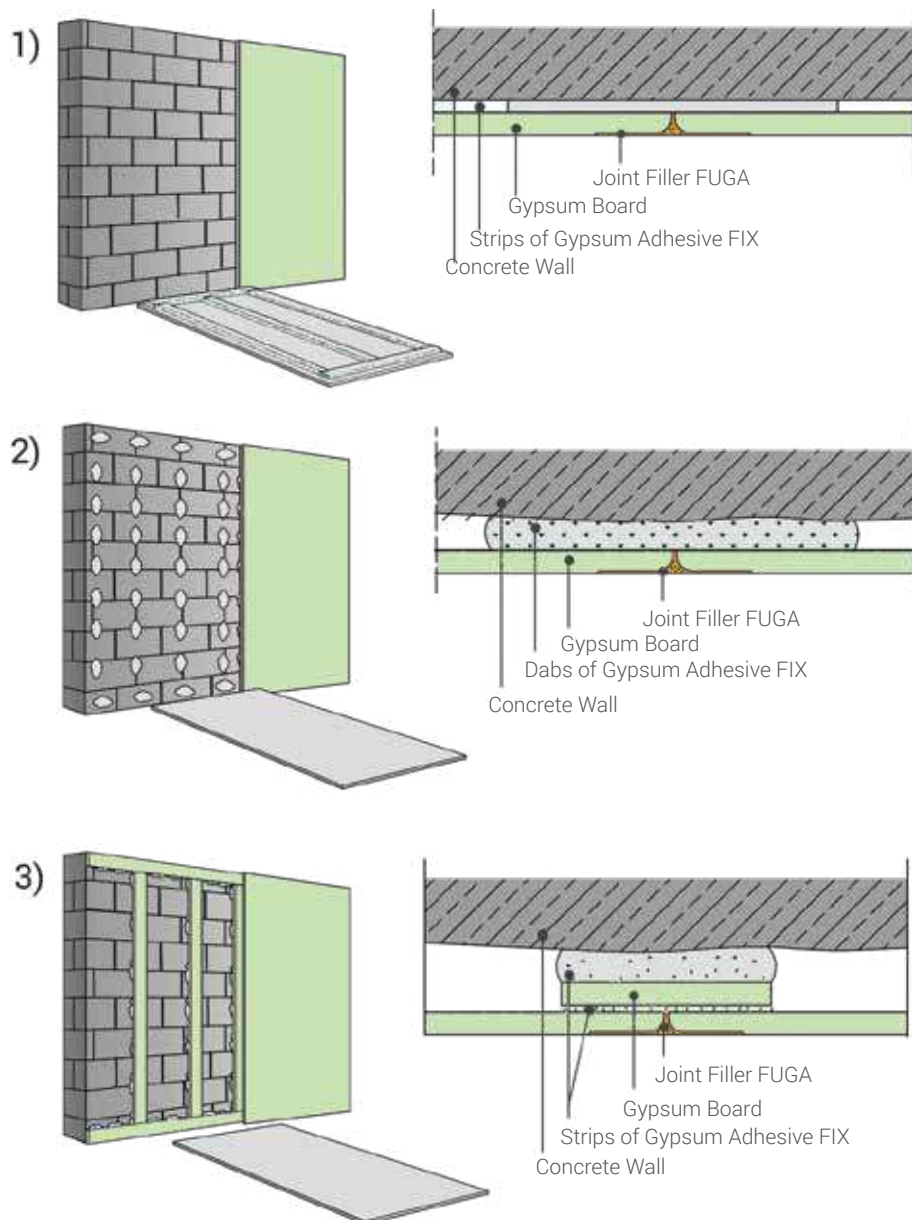


Material Consumption ⁽¹⁾ per 1 m²			
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	1.0
2	Gypsum Adhesive FIX	kg	5.0
5.1	Joint Tape @ inner joints	m'	1.0
5.2	Separation Strip TrennFix @ peripheral joints	m'	0.8
6	Joint Filler FUGA / FUGA&FINISH ⁽²⁾ @ all layers	kg	0.3
11	Gypsum Skim Coat SATEN / FUGA&FINISH ⁽²⁾	kg	0.9

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

(2) Consumption rate of FUGA&FINISH is 0.35 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽³⁾ Permissible heights in case of no fire resistance class requirements in acc. with DIN 18 183.



Application

According to the unevenness of the base, the following three installation methods are recommended:

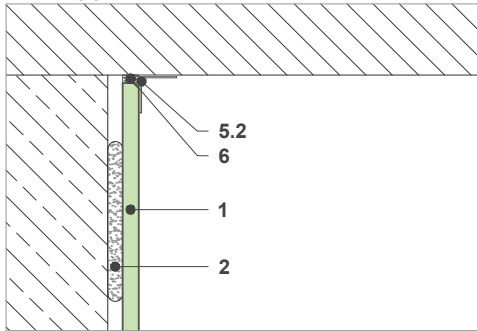
- 1) In case of unevenness up to 10 mm, a method of thin layer is used - FIX is applied in strips along the whole perimeter by using a toothed plastering trowel. Depending on the weight of the mounted board, one or two longitudinal strips of adhesive are added in the middle of the board.
- 2) In case of unevenness between 10 and 20 mm the adhesive is applied in the form of dabs with a diameter of 10 cm, in regular pattern spaced 30 - 40 cm horizontally and vertically, aiming to provide a minimum area of contact between boards and base approx. 20%. Adhesive dabs can be applied either on the vertical base or on the installed plasterboard depending on its size.
- 3) In case of unevenness over 20 mm, strips of plasterboard with width of 100 mm are pre-cut and fixed to the prepared base. FIX is applied to the leveled strips of plasterboard by using a toothed trowel, afterwards the plasterboard is glued.

When dry plaster is mounted, paddings with thickness of approx. 10 mm are placed on the floor to support the boards during the installation process and to form a joint between the dry liner and the floor, allowing the linear expansion of the boards without causing cracks.

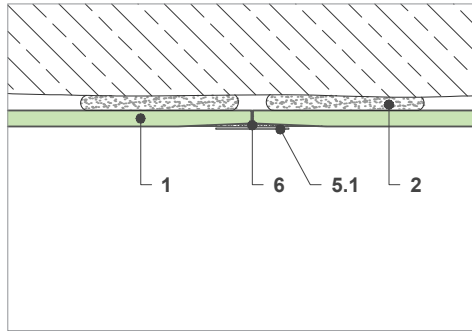
USEFUL TIPS

- If possible, use full size boards
- Do not instal dry plaster in areas with higher levels of humidity!
- We do not recommend FIX to be used for mounting elements other than plasterboard!
- Do not use this method to mount plasterboard to ceilings, beams or other horizontal structural members!

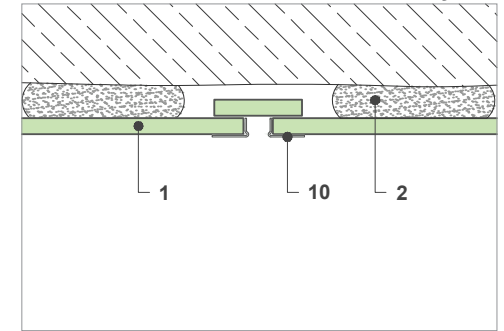
V01 Upper connection to solid concrete element



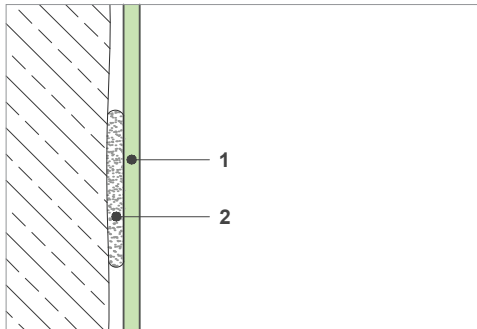
H01 Vertical Joint



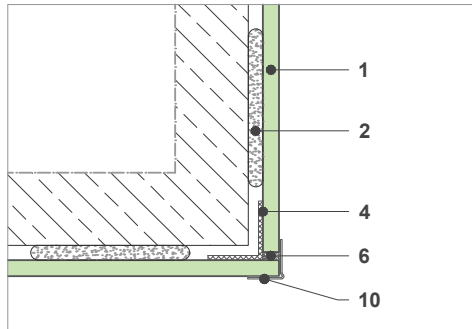
H02 Dilatation joint



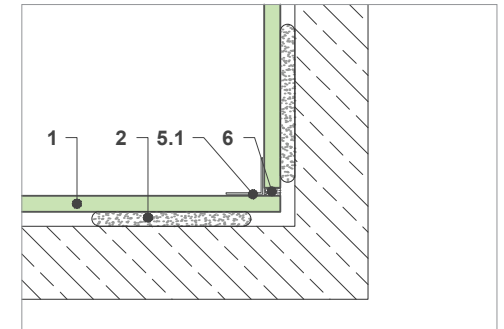
V02 Cross section - middle



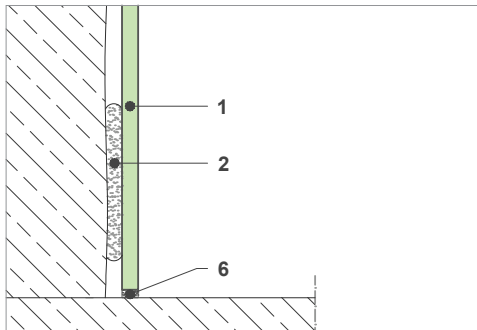
H03 Outer Corner



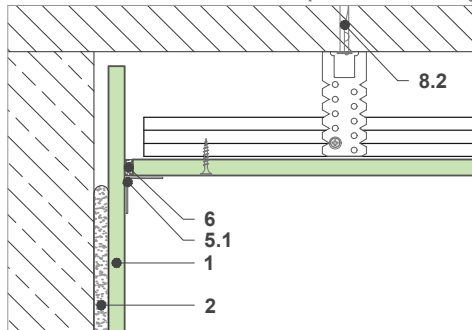
H04.2 Inner Corned



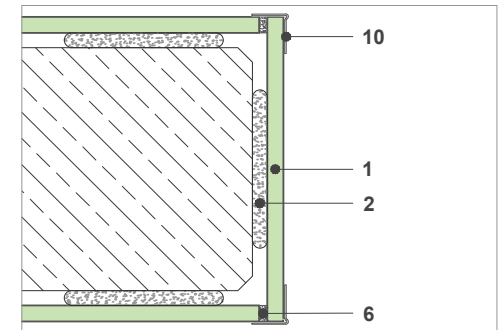
V03 Lower connection to solid concrete element



V01.2 Connection to suspended ceiling



H11 Column



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro
2. Gypsum Adhesive FIX

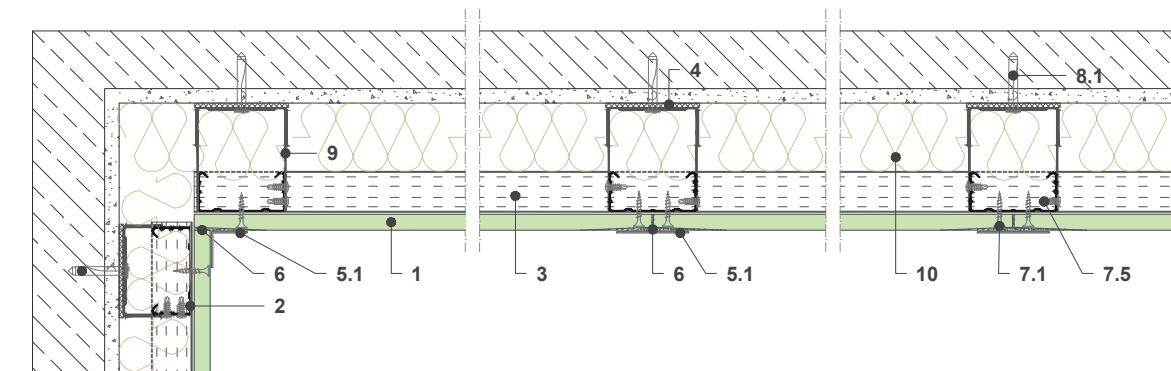
4. Acoustic Tape
5.1 Joint Tape

5.2 Separation Strip TrennFix
6. Joint Filler FUGA

8.2 Ceiling Anchor 6 x 40, 65 mm
10. Corner Tape ALUX

WALL LININGS

Technogips Pro L1-1



Wall Self-weight
up to **16 kg/m²**



Wall Thickness
44.5 - 344.5 mm



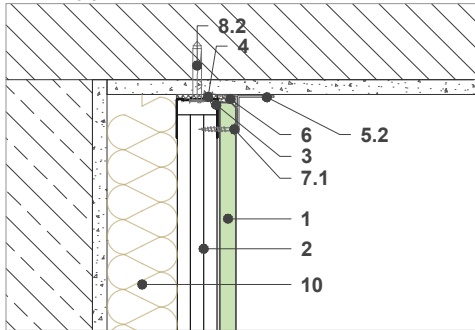
Permissible Heights
up to **10.00 m**

Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]
			600
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	1.0
2	Premium Profile Z140 CD 0.6 mm	m'	2.0
3	Premium Profile Z140 UD 0.6 mm	m'	0.7
4	Acoustic Tape @ all peripheral profiles	m'	0.7
5.1	Joint Tape @ all inner joints	m'	1.0
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.8
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.3
7.1	Drywall Screw 3.5 x 25 mm @ 250 mm	pcs	16.0
7.5	Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	2.2
8.1	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6
8.2	Cavity Dowel / Ceiling Anchor @ 1000 mm	pcs	1.1
9	Adjusting Bracket (load-bearing capacity 0.40 kN) @ 1500 mm max distance	pcs	1.1
10	Mineral Glass Wool FABRIC PRO	m²	1.0
11	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9

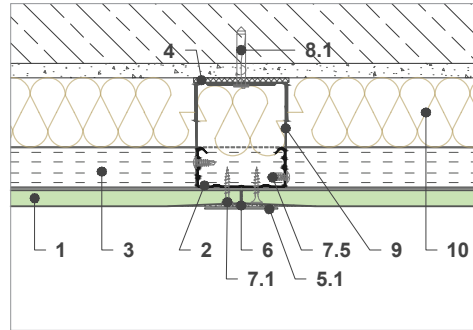
⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽³⁾ Consumption rate of FUGA&FINISH is 0.35 kg/m² for jointing and 0.5 kg/m² for skim coating.

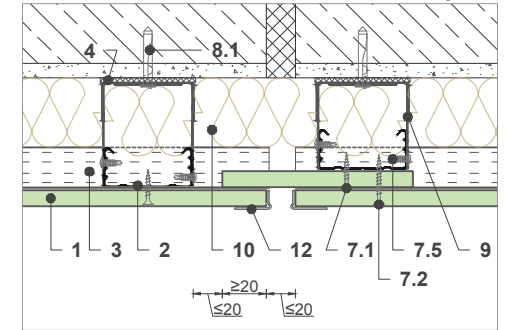
V01 Upper connection to solid concrete element



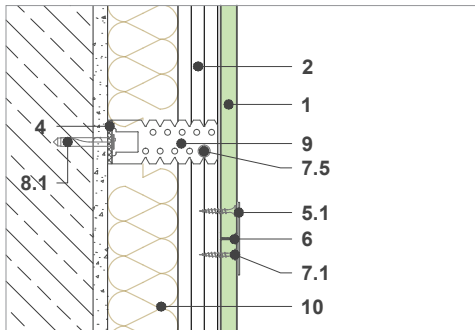
H01 Vertical Joint



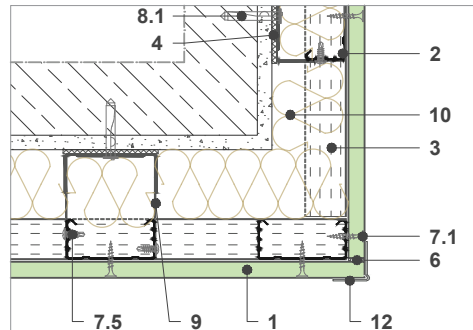
H02 Dilatation joint



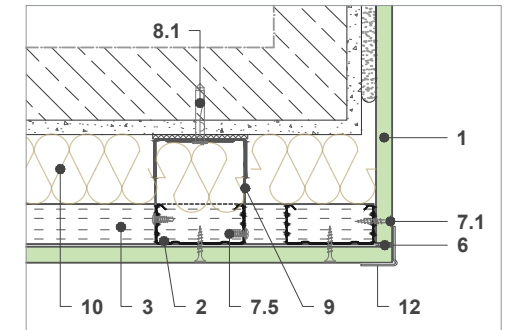
V02 Cross section - middle



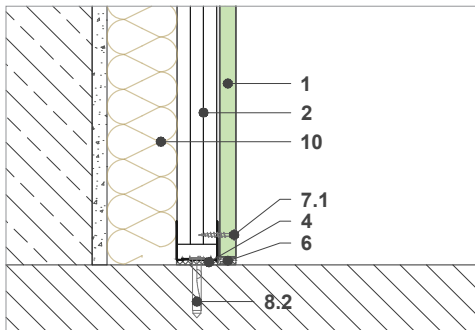
H03 Outer Corner



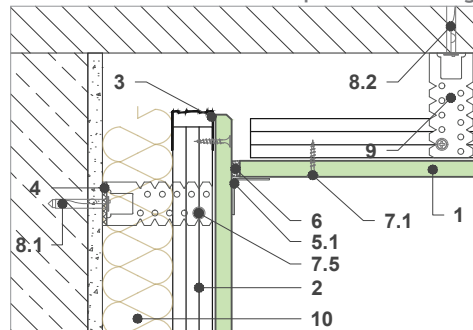
H04.2 Inner Corned



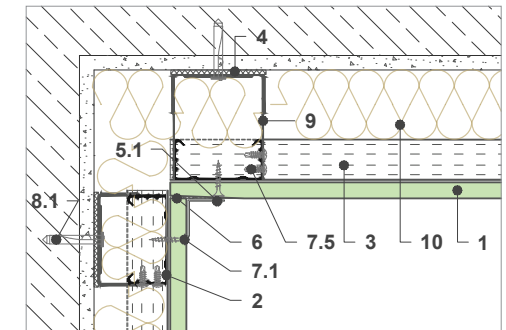
V03 Lower connection to solid concrete element



V01.2 Connection to suspended ceiling



H11 Column



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.2 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm
2. Premium Profile Z140 CD / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Adjusting Bracket
3. Premium Profile Z140 UD / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	10. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	8.1 Cavity Dowel / Ceiling Anchor 6 x 40, 65 mm	12. Corner Tape ALUX

WALL LININGS

Technogips Pro L1-2



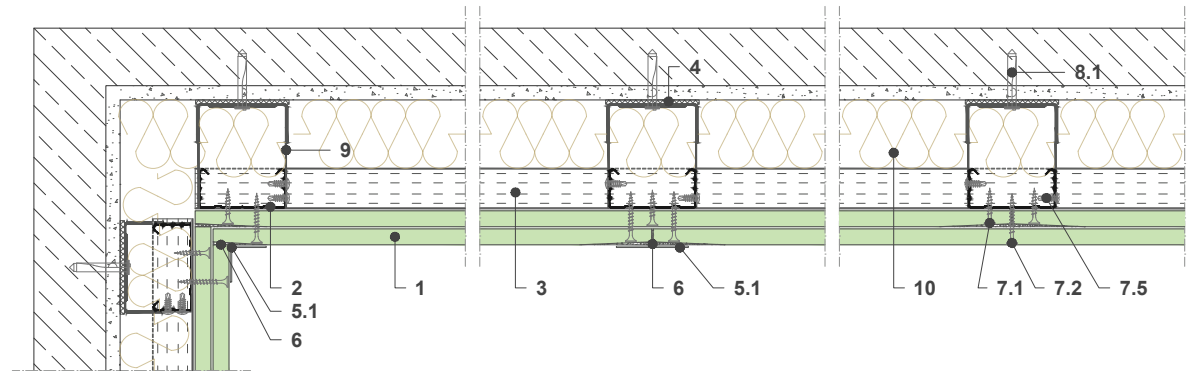
Wall Self-weight
up to **22 kg/m²**



Wall Thickness
57.0 - 357mm



Permissible Heights
up to **10.00 m**

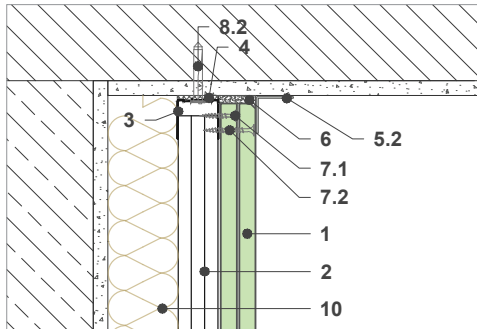


Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]
			600
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	2.0
2	Premium Profile Z140 CD 0.6 mm	m'	2.0
3	Premium Profile Z140 UD 0.6 mm	m'	0.7
4	Acoustic Tape @ all peripheral profiles	m'	0.7
5.1	Joint Tape @ all inner joints	m'	1.0
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.8
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	8.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm board Drywall Screw 3.5 x 45 mm @ 250 mm @ 15.0 mm board	pcs	15.0
7.5	Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	2.2
8.1	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6
8.2	Cavity Dowel / Ceiling Anchor @ 1000 mm	pcs	1.1
9	Adjusting Bracket (load-bearing capacity 0.40 kN)	pcs	1.1
10	Mineral Glass Wool FABRIC PRO	m²	1.0
11	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9

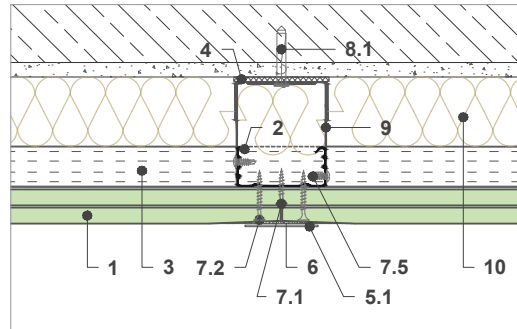
⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

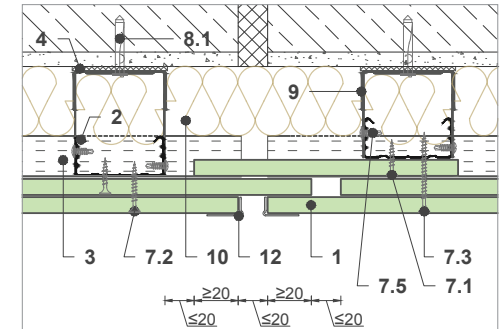
V01 Upper connection to solid concrete element



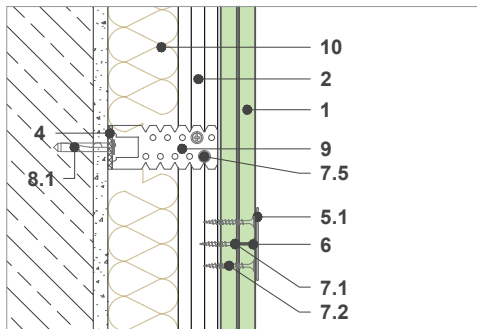
H01 Vertical Joint



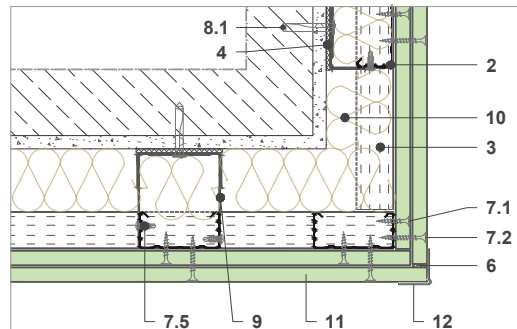
H02 Dilatation joint



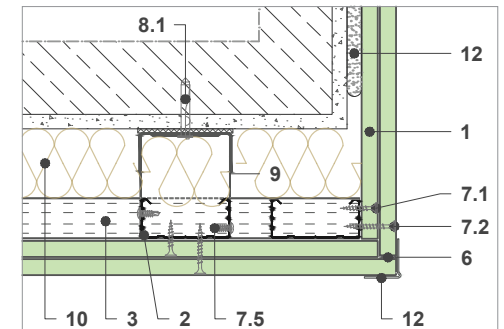
V02 Cross section - middle



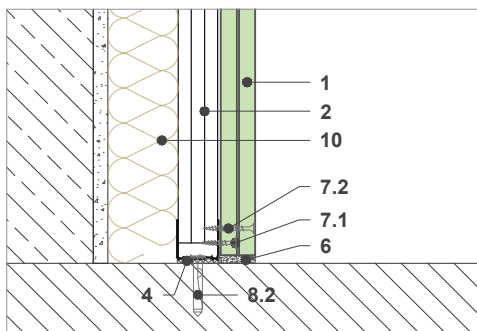
H03.1 Outer Corner



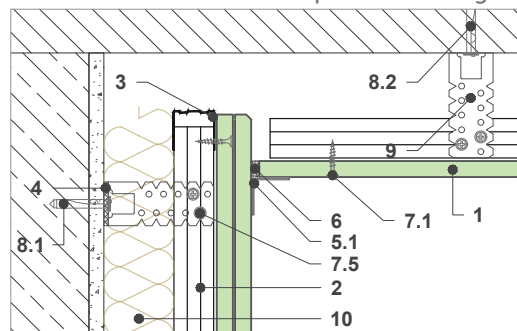
H03.2 Outer Corned



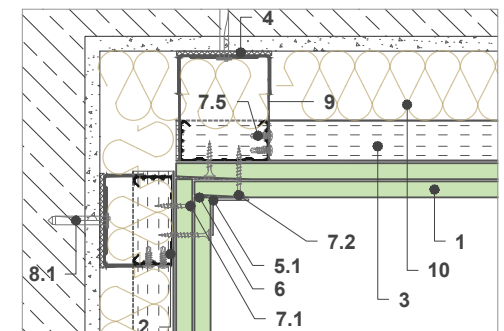
V03.1 Lower connection to solid concrete element



V04 Connection to suspended ceiling

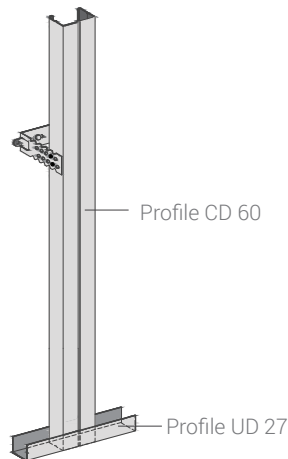


H03.4 Inner Corner



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.2 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm
2. Premium Profile Z140 CD / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	9. Adjusting Bracket
3. Premium Profile Z140 UD / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	10. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	8.1 Cavity Dowel / Ceiling Anchor 6 x 40, 65 mm	12. Corner Tape ALUX


L 1-1 / L 1-2

Installation of the peripheral profiles to the main structure

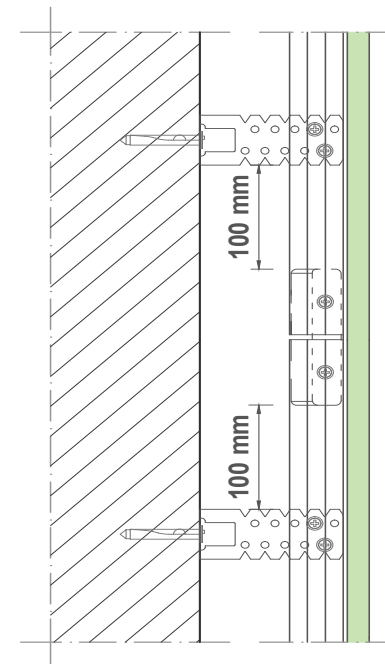
1. Mark the desired position of the partition wall on the floor and walls using a laser level or a chalk line.
2. The back side of the peripheral UD 27 profiles, which are in direct contact with the surrounding structures need to be insulated with an acoustic foam tape for better sound insulation.
The width of the acoustic foam tape is based on the width of the profile used.
3. In accordance with the prepared marking, the peripheral profiles are fixed using suitable dowels at 50 mm from each end of the profile and at 500 mm along its length, but not less than 3 fasteners per profile.

Installation of the vertical CW

1. The vertical CD 60 profiles of the metal structure are mounted between the upper and the lower horizontal UW profiles, with axial distance between the profiles determined by the height of the wall. The higher the wall, the shorter the distance. The stud spacing of the vertical profiles can be 600, 400 or 300 mm.
2. The length of the vertical profiles should be 10 mm shorter than floor to ceiling distance.
3. Mounting the CD 60 profiles with adjusting brackets and suitable for the base fasteners. Maximum distance between the points of mounting is 1000 mm.
In case of subsequent ceramic tile coatings, the vertical profiles need to be mounted at axial distance of max 400 mm or the cladding should consist of minimum two layers of plasterboard.

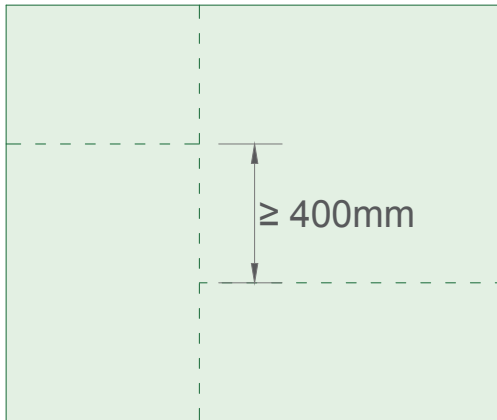
Vertical Extension of CD 60 Profiles

The profiles extension should be installed at alternating sequence, at top and bottom end of the profile.

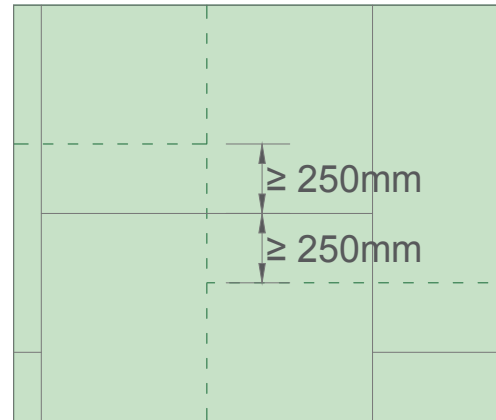


CLADDING PATTERN

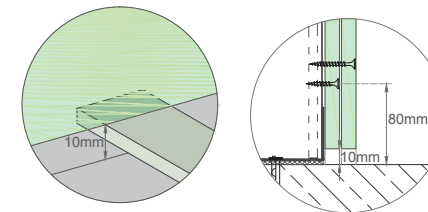
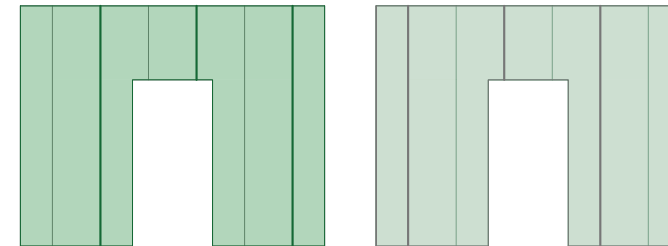
First / Third Layer



Second / Fourth Layer



Frame Openings



When installing the boards, a gap of minimum 10 mm should be left at the lower connection to the solid concrete floor. Joints on opposite sides of the partition, both horizontal and vertical should be staggered.
For multi-layer cladding, second layer should be staggered both horizontally and vertically.

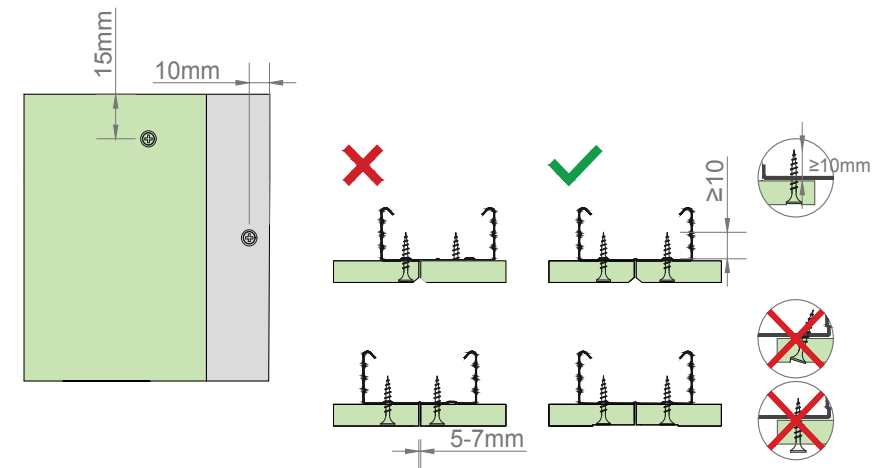
Fasteners

Drywall screw TN 3.5 x 25/35/45/50 or 4.2/70 with sharp point for grid with thickness of the metal profiles < 0.7 mm.

Self-drilling screw TB 3.5 x 25/35/45/50 or 4.2/70 with self-drilling point for grid with thickness of the metal profiles 0.7 ÷ 2.0 mm.

Length of fasteners				
Boards thickness	1st Layer	2nd Layer	3rd Layer	4th Layer
9.5 mm	3.5 x 25	3.5 x 35	x	x
12.5 mm	3.5 x 25	3.5 x 35	3.5 x 55	4.2 x 70
15.0 mm	3.5 x 25	3.5 x 45	3.5 x 55	4.2 x 70
2 x 12.5 mm + 15.0 mm	3.5 x 25	3.5 x 35	3.5 x 55	x

Axial distance between fasteners				
Number of layers	1st Layer	2nd Layer	3rd Layer	4th Layer
Single	250	x	x	x
Double	500	250	x	x
Triple	500	500	250	x
Quadruple	500	500	500	250



The screw should be installed in a way that its head is right beneath the surface of the boards with approx. 1 mm.
Fastening the boards begins from the open part of the CW flange and continue in the direction of its base.

Surface quality levels

According to Eurogypsum's classification – European federation of the gypsum product manufacturing industry.

Developed and established, the 4 levels of quality finish classification for plasterboard cladding aims to provide clear definitions thus helping to reduce subjective judging of the end result.

Level	Aesthetic Requirements	Finish Surface Suitability	Application	Suitable Product
Q1 (basic)	For surfaces without aesthetic requirements	Ceramic tiles, decorative relief plasters with a thickness of more than 2 mm, etc. Corridors and ceilings of service rooms.	Filling the joints and reinforcing with tape. Filling the screw heads. In multi-layer systems and without fire protection requirements, the transition layers do not have to be reinforced with tape.	FUGA FUGA hydro FUGA & FINISH Light
Q2 (standard)	Standard level of completion.	Laying wallpaper with a medium or rough structure. Matt disperse and other paints with filler, which are applied with an ordinary paint roller. Decorative thin-layer plasters or skim coats with a thickness of 1 mm.	Fully finished and dried level Q1. Skim-coating and widening of the joint area to achieve a smooth transition of the surface. Laying a second layer on the screw heads. Forming internal and external corners. If necessary, polish the areas with fine sandpaper.	FUGA FUGA hydro FUGA & FINISH Light
Q3 (high)	High level - some shading still possible.	Laying thin and fine wallpaper Matt disperse and other paints with filler, which are applied with an ordinary paint roller. Decorative thin-layer plasters or skim coats with a thickness of 1 mm.	Fully finished and dried level Q2. Fine complete skim-coating of the surface, including, if necessary, polishing with fine sandpaper. Rough areas and imperfections are not allowed, but are not excluded.	SATEN FUGA & FINISH Light
Q4 (premium)	Premium end - minimized appearance of marks and traces.	Surfaces with requirements for extremely high surface quality. Surfaces to be treated with glossy paints and coatings. Premises with spot or bright light.	Fully finished and dried level Q2. Fine complete skim-coating of the surface with a layer <3 mm. Mandatory thorough inspection of the entire surface with directional LED light and polishing with fine sandpaper. Rough sections and imperfections are not allowed.	SATEN FUGA & FINISH Light

Additional Information

Untreated joints and surfaces are suitable for temporary construction or when the finish coat has not been determined.

Quality level Q2 does not ensure that marks and spots under the finishing layer will not be visible, particularly under bright or shallow light. These effects can be reduced by continuing with the next level Q3, which includes a thorough coating of the entire plasterboard surface.

If the finishing level of the surface is not specified, then by default quality level Q2 is accepted as sufficient.

It is important to note that quality level Q3 allows partly transparent areas in the jointing between the plasterboards especially under the effect of bright shallow light or in case of glossy finishing. If higher demands are made on quality of the finished surface we recommend the next quality level Q4.

Joint Treatment

Application Conditions

The premise and substrate temperature must not be lower than 8 ° C and must be kept constant for at least 2 days before the joints are treated. Sudden temperature changes when ventilating the premises must be prevented. The flatness and quality of the installation of the boards must also be checked. In the presence of poorly screwed screws, they must be tightened to ensure the flatness of the plasterboard surface. Correct screws to be used with screw head just below the board surface.

Level Q1

First coat of Technogips Pro joint filler should be applied with joint knife of sufficient width beyond both sides of the center of the joint. Technogips Pro joint tape should be embedded into the joint filler to reinforce the joint between two boards.

Applying a second thin coat of the joint filler to level the joint with a width of approx. 80 mm

The visible screw heads should be also filled in.

In multi-layer systems and no fire protection requirements, the lower layers do not have to be reinforced with tape. In the case of fire protection systems, the reinforcement of the joints of all layers with joint tape is mandatory.

Level Q2

To be able to continue with level Q2 – aligning the joint area with continuous transition to the board surface, the absolutely necessary requirement is the first layer, level Q1 to be completely dried (this could take up to 24 hours). A thin leveling coat is applied on the joint with a width of approx. 300 mm for tapered (TE) edging and approx. 400 mm for square (SE) edging. This is sufficient to ensure a continuous gradual transition from the joint to the wallboard surface. The screw heads to be covered with second coat of the compound.

The inner and outer corners should be formed. The outer corners must be formed with an Aluminum angle bead, which must be fixed and leveled with small part of the compound. For a stronger connection and maximum protection against cracks, additional reinforcement with fiberglass tape is recommended at the transition between the corner and the plasterboard. The inner corners to be reinforced with paper tape and compound.

Level Q3

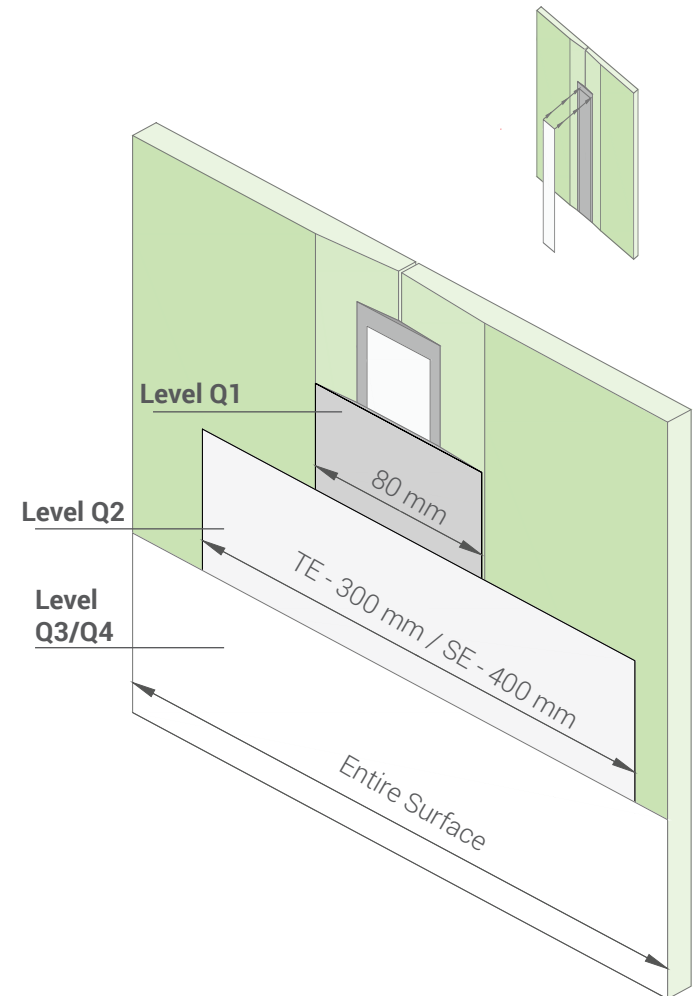
To be able to continue with level Q3 – complete skim coating of the surface, the absolutely necessary requirement is the previous stage, level Q2 to be completely dried (this could take up to 8 hours). With rectilinear moves, holding the drywall trowel under 30°, with rectilinear moves spread a thin layer of the compound. Typically, one or two moves are sufficient to even up all physical ridges and grooves, adding more of the mixture if necessary.

If needed, the surface could be smoothed with fine sandpaper after complete drying of the skim coat.

Level Q4

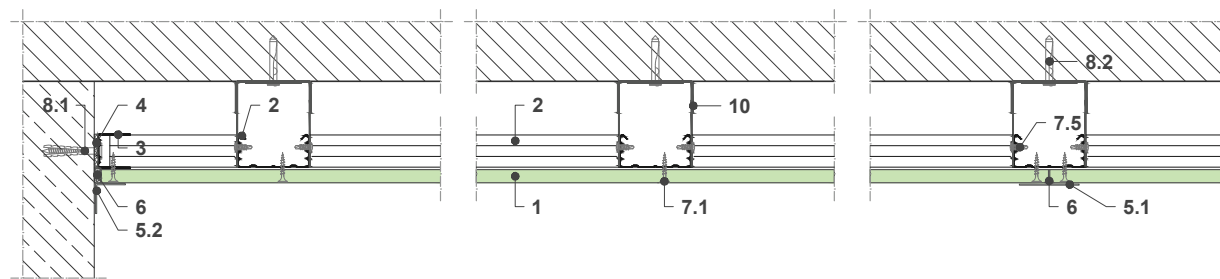
It is mandatory that the previous layer - level Q2 (Q3) is finished and dry (takes no more than 24 hours). A thin layer (no more than 3 mm) of the compound to be applied over the entire surface of the wall. Then smooth the surface using a skimming spatula.

After the wall is completely dry, all imperfections must be smoothed with fine sandpaper. Using LED floodlight will help you spot them easily.



SUSPENDED CEILINGS

Technogips Pro C1-1


C1-1
Board Type:

 A / H2 / DF / DFH2 / SCE DFIR /
 Titan Board / Blue Board

Cladding 1 x 12.5 mm

Suspenders @ 1000 mm

Carrying Channel @ 1000 mm

Furring Channel @ 500 mm

Material Consumption⁽¹⁾ per 1 m²
Systems
**C1-1
1x12.5**

1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	1.0
2	Premium Profile Z140 CD 60 0.6 mm	m'	3.0
3	Premium Profile Z140 UD 27 0.6 mm	m'	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	0.9
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.4
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.3
7.1	Drywall Screw 3.5 x 25 mm @ 200 mm	pcs	20.0
7.5	Self-drilling Screw TEX LB or Drywall Screw TEX LN 4.2 x 13 mm	pcs	2.6
8.1	Nail Plug @ 500 mm for mounting peripheral UD profiles	pcs	0.8
8.2	Ceiling Anchor for mounting suspenders	pcs	1.0
9	CD Crosswise one-side connector	pcs	3.9
	CD Crosswise four-sided connector	pcs	2.0
10	Rotary Hanger Moon / Anchor; Attic Hanger Anchor (with load-bearing capacity 0.25)	pcs	1.0
	Adjusting Bracket or Rotary Hanger (with load-bearing capacity 0.40 kN)	pcs	1.0
11	CD longitudinal connector 0.5 mm	pcs	0.2
12	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	1.0
13	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9

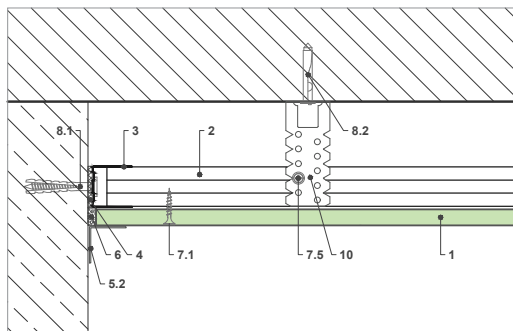
⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 100 m² (10 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 1.3 m'/m².

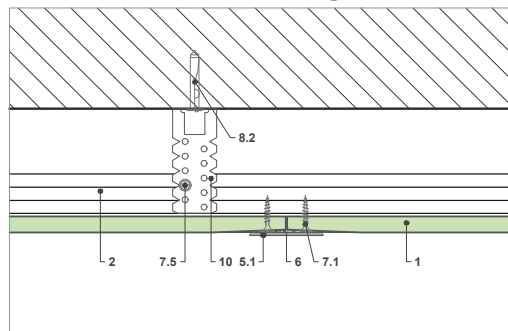
⁽³⁾ Consumption rate of FUGA&FINISH is 0.35 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

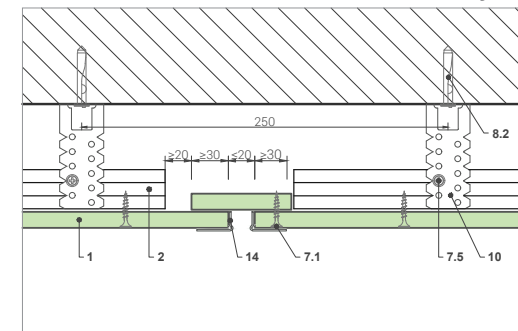
L01 Connection to solid concrete wall



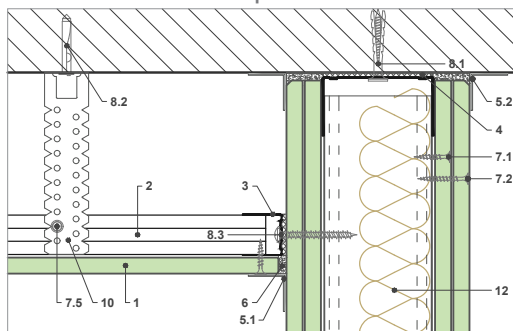
L03 Recessed Edge Joint



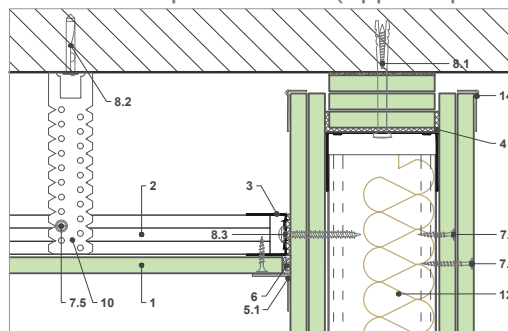
L04 Dilatation joint



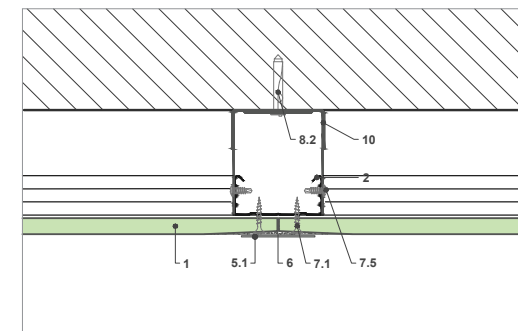
L02.1 Connection to partition wall



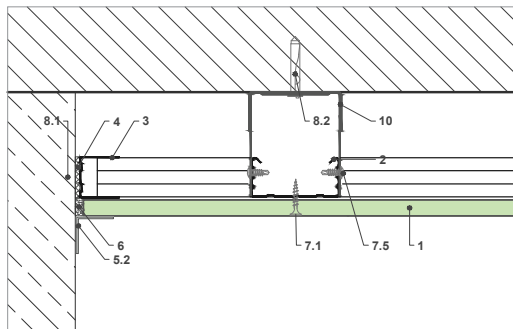
L02.2 Connection to partition wall (Upper Expansion Joint)



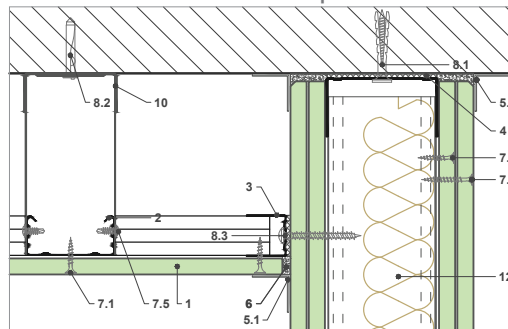
C03 Butt Joint



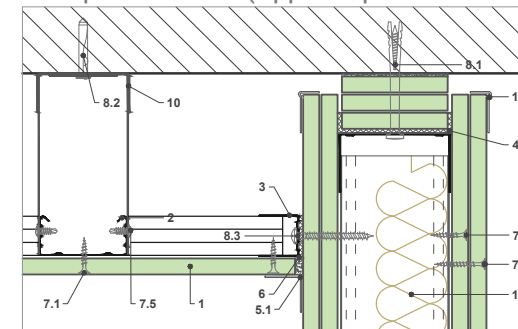
C01 Connection to solid concrete wall



C02.1 Connection to partition wall



C02.2 Connection to partition wall (Upper Expansion Joint)

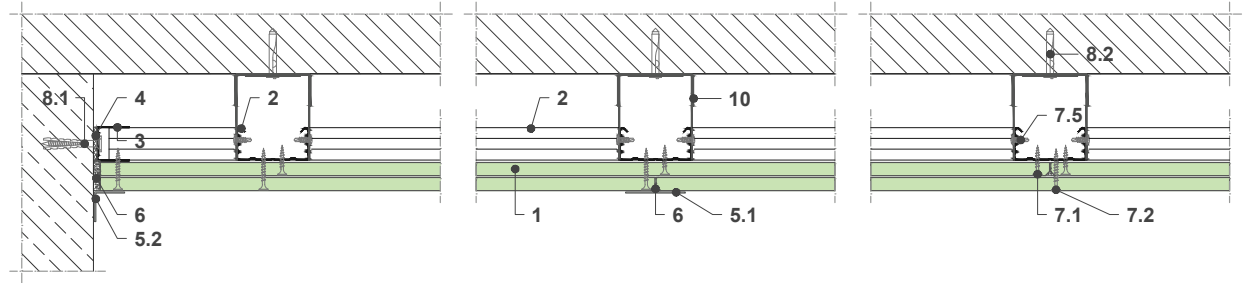


CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug 6 x 40, 60, 80 mm	10. Sponder
2. Premium Profile Z140 CD / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Ceiling Anchor 6 x 40, 65 mm	11. CD longitudinal connector
3. Premium Profile Z140 UD / 0.6 mm	6. Join Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	8.3 Universal Screw FN 4.3 x 65	12. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. CD crosswise connector	14. Corner Tape ALUX

SUSPENDED CEILINGS

Technogips Pro C1-2



Material Consumption ⁽¹⁾ per 1 m ²			Systems	
			C1-2 2x12.5	C1-2 2x12.5
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	2.0	2.0
2	Premium Profile Z140 CD 60 0.6 mm	m'	3.0	5.2
3	Premium Profile Z140 UD 27 0.6 mm	m'	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	0.9	0.9
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.4	0.4
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 400 mm	pcs	10.0	10.0
7.2	Drywall Screw 3.5 x 35 mm @ 200 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 200 mm @ 15.0 mm boards	pcs	20.0	20.0
7.5	Self-drilling Screw TEX LB or Drywall Screw TEX LN 4.2 x 13 mm	pcs	2.6	8.6
8.1	Nail Plug @ 500 mm for mounting peripheral UD profiles	pcs	0.8	0.8
8.2	Ceiling Anchor for mounting suspenders	pcs	1.0	3.5
9	CD Crosswise one-side connector	pcs	3.9	13.5
	CD Crosswise four-sided connector		2.0	6.7
10	Rotary Hanger Moon / Anchor; Attic Hanger Anchor (with load-bearing capacity 0.25)	pcs	1.0	3.5
	Adjusting Bracket or Rotary Hanger (with load-bearing capacity 0.40 kN)		1.0	3.5
11	CD longitudinal connector 0.5 mm	pcs	0.2	0.4
12	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	1.0	1.0
13	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9

⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 100 m² (10 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 1.3 m²/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

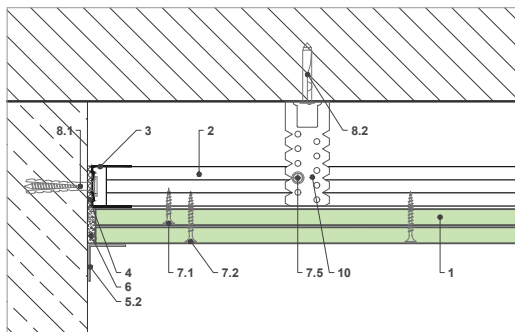

C1-2 - Without Fire Resistance Class

Board Type: A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Cladding 2 x 12.5 mm
	Suspender @ 1000 mm
	Carrying Channel @ 1200 mm
	Furring Profile @ 500 mm

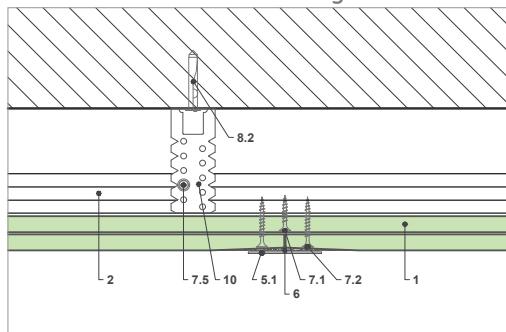
C1-2 - Fire Resistance Class EI 45

Board Type: A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Cladding 2 x 12.5 mm
	Suspender @ 800 mm
	Carrying Channel @ 400 mm
	Furring Channel @ 400 mm

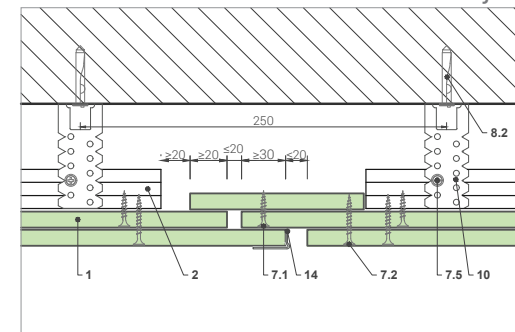
L01 Connection to solid concrete wall



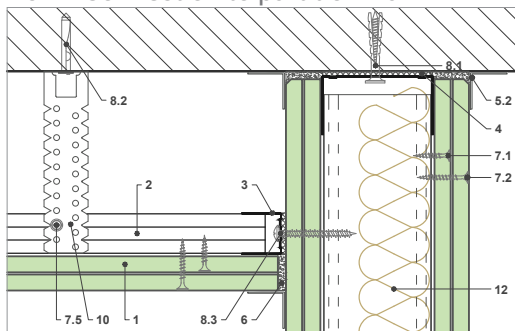
L03 Recessed Edge Joint



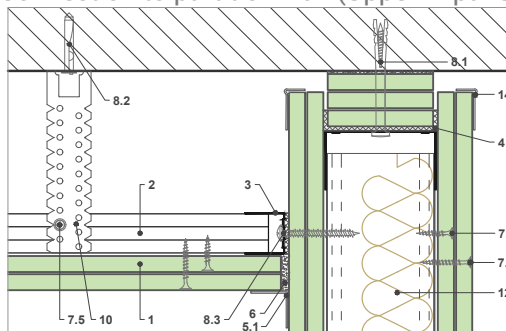
L04 Dilatation joint



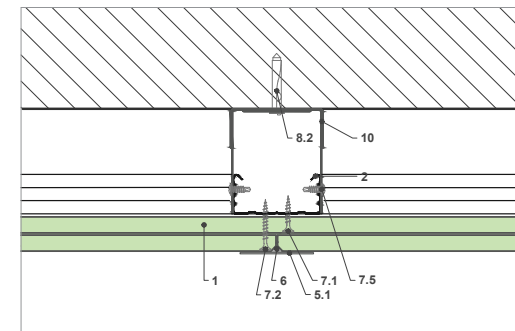
L02.1 Connection to partition wall



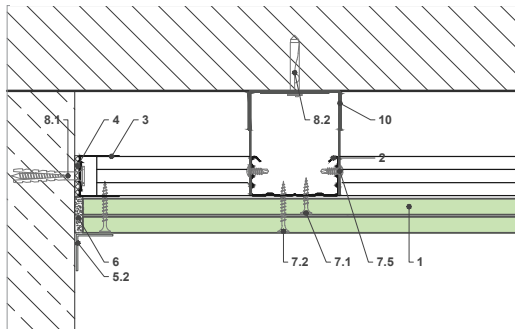
L02.2 Connection to partition wall (Upper Expansion Joint)



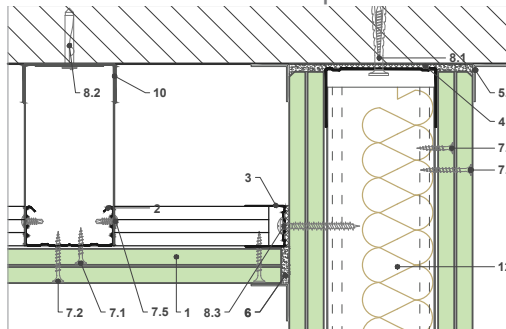
C03 Butt Joint



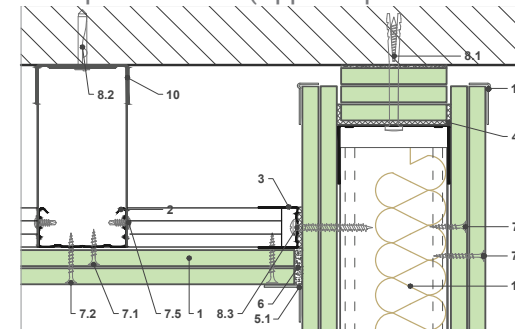
C01 Connection to solid concrete wall



C02.1 Connection to partition wall



C02.2 Connection to partition wall (Upper Expansion Joint)



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug 6 x 40, 60, 80 mm	10. Sponder
2. Premium Profile Z140 CD / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Ceiling Anchor 6 x 40, 65 mm	11. CD longitudinal connector
3. Premium Profile Z140 UD / 0.6 mm	6. Join Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	8.3 Universal Screw FN 4.3 x 65	12. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. CD crosswise connector	14. Corner Tape ALUX

Metal grid design - permissible grid and suspenders spacing

Ceiling Load Class , kg/m²				
Cladding	C1-1	C1-2	C1-3	C1-4
Standard Plasterboard Type A 12.5 mm	10.20	18.40	26.60	34.80
Moisture Resistant Plasterboard Type H2 12.5 mm	10.60	19.20	27.80	36.40
Fire Resistant Plasterboard Type DF 12.5 mm	12.20	22.40	32.60	42.80
Fire and Moisture Resistant Plasterboard Type DFH2 12.5 mm	12.50	23.00	33.50	44.00
Sound Comfort Extra Type DFIR 12.5 mm	14.00	26.00	38.00	50.00
Titan Board Type DFH1IR 12.5 mm	15.00	28.00	41.00	54.00
Blue Board Type GM DFH1IR 12.5 mm	13.50	25.00	36.50	48.00
Standard Plasterboard Type A 15 mm	13.00	24.00	35.00	46.00
Moisture Resistant Plasterboard Type H2 15 mm	13.50	25.00	36.50	48.00
Fire Resistant Plasterboard Type DF 15 mm	14.00	26.00	38.00	50.00
Fire and Moisture Resistant Plasterboard Type DFH2 15 mm	14.50	27.00	39.50	52.00

*Weight of the suspended ceiling (cladding and metal grid) without additional loads of insulating material and suspended objects.

Fasteners Lenght

Board Thickness	1st Layer	2nd Layer
12.5 mm	3.5 x 25	3.5 x 35
15.0 mm	3.5 x 25	3.5 x 45

Fasteners Spacing

Number of Layers	1st Layer	2nd Layer
Single	200	x
Double	400	200

		
Ceiling Anchor	Nail Plug	Drywall Screw TN
For fixing suspenders to concrete slab	For fixing peripheral UD27 profiles to surrounding structure	For fixing plasterboard to the metal grid with metal gauge <0.7 mm

Technogips Pro C1 - Flush Metal Grid					
Permissible axial distance, mm					
Carrying Channel	Furring Channel**	Suspenders according to ceiling load class, kg/m²			
		< 15 kg/m²	< 30 kg/m²	< 50 kg/m²*	< 60 kg/m²*
600	400	1200	950	800	750
	500	1150	900	750	700
1200	400	1000	800	-	-
	500	900	700	-	-

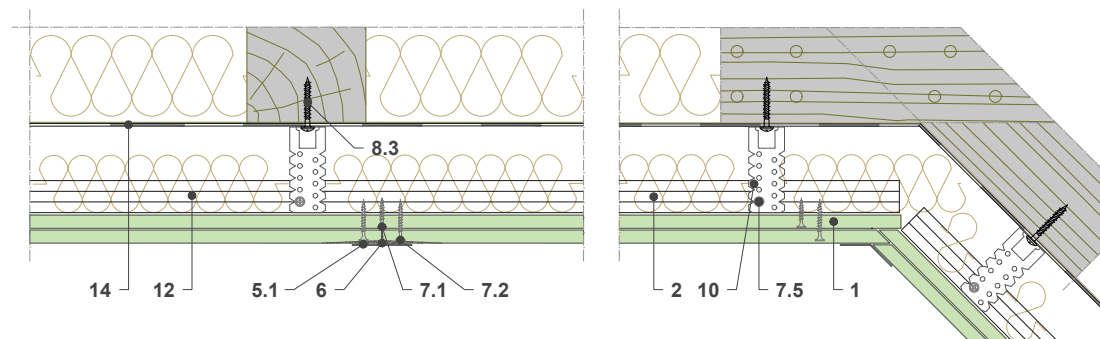
* Mandatory use of Nonius hanger or Adjusting bracket 0.4 kN

** Permissible spacing of 400 mm when longitudinal installation of the boards
Permissible spacing of 500 mm when transversal installation of the boards

				
Premium Profile CD 60	Premium Profile UD 27	CD croswise one-side connector	CD longitudinal connector	Self-drilling Screw TEX LB
Carrying Channel	Furring Channel	For transversal connection of CD 60 Profiles	For longitudinal extension of CD 60 Profiles	For securing profile extensions and fixing Adjusting Brackets to CD 60 Profiles
				
Suspenders (with load-bearing capacity 0.40 kN)		Suspenders (with load-bearing capacity 0.25 kN)		
Nonius Hanger	Adjusting Bracket	Rotary Anchor Moon	Rotary Hanger Anchor	Attic Hanger Anchor
For pressure resistant suspension of the metal grid to the main ceiling.		For standard suspension of the metal grid to the main ceiling.		Suspender for timber structural elements.

SUSPENDED CEILINGS FOR ATTICS

Technogips Pro C1 Attic



C1-1 - Without Fire Resistance Class

Board Type	Cladding 1 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Suspender @ 1000 mm
	Carrying Channel @ 400 mm

C1-2 - Fire Resistance Class EI 45

Board Type	Cladding 2 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Suspender @ 800 mm
	Carrying Channel @ 400 mm
	Furring Channel @ 400 mm

Material Consumption ⁽¹⁾ per 1 m ²			Systems	
			C1-1 Attic 1x12.5	C1-2 Attic 2x12.5
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	1.0	2.0
2	Premium Profile Z140 CD 60 0.6 mm	m'	2.6	5.2
3	Premium Profile Z140 UD 27 0.6 mm	m'	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	0.9	0.9
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.4	0.4
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.3	0.6
7.1	Drywall Screw 3.5 x 25 mm	pcs	20.0	10.0
7.2	Drywall Screw 3.5 x 35 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 15.0 mm boards	pcs	-	20.0
7.5	Self-drilling Screw TEX LB or Drywall Screw TEX LN 4.2 x 13 mm	pcs	2.6	8.6
8.1	Nail Plug @ 500 mm for mounting peripheral UD profiles	pcs	0.8	0.8
8.3	Universal Screw FN 4.3 x 65 mm for mounting suspenders	pcs	1.0	3.5
9	CD Crosswise one-side connector	pcs	-	13.5
	CD Crosswise four-sided connector	pcs	-	6.7
10	Rotary Hanger Moon / Anchor; Attic Hanger Anchor (with load-bearing capacity 0.25)	pcs	1.0	3.5
	Adjusting Bracket or Rotary Hanger (with load-bearing capacity 0.40 kN)	pcs	1.0	3.5
11	CD longitudinal connector 0.5 mm	pcs	0.2	0.4
12	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	1.0	1.0
13	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9
14	Vapour Control Membrane	m ²	1.1	1.1

⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 100 m² (10 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 1.3 m'/m².

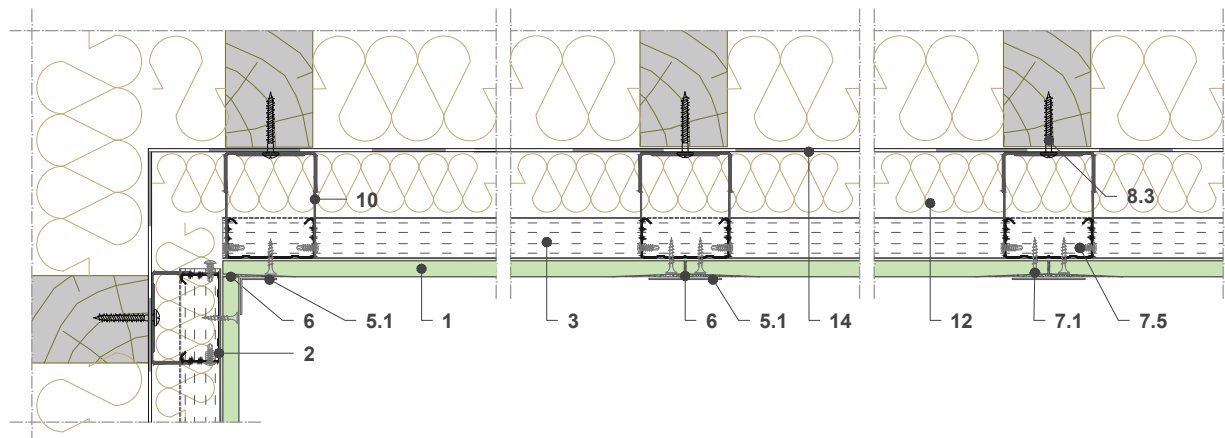
⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

**WALL BELOW EAVES -
INSTALLATION METHOD WITH WALL LINING L1**

 Wall Weight
 up to **22 kg/m²**

 Wall Thickness
57.0 - 357mm

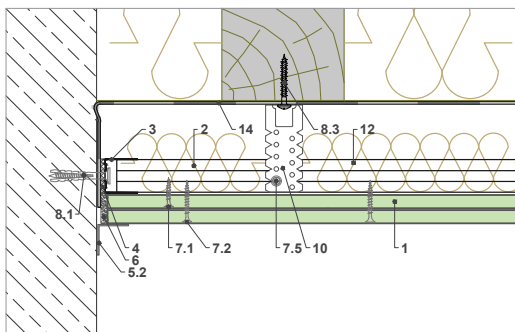
 Permissible Heights
 up to **10.00 m**


Material Consumption ⁽¹⁾ per 1 m²			Systems	
			L1-1 1x12.5	L1-2 2x12.5
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m²	1.0	2.0
2	Premium Profile Z140 CD 60 0.6 mm	m'	2.0	2.0
3	Premium Profile Z140 UD 27 0.6 mm	m'	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	0.7	0.7
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	1.0	1.0
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.8	0.8
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.3	0.6
7.1	Drywall Screw 3.5 x 25 mm	pcs	16.0	8.0
7.2	Drywall Screw 3.5 x 35 mm @ 12.5 mm board Drywall Screw 3.5 x 45 mm @ 15.0 mm board	pcs	-	16.0
7.5	Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	2.2	2.2
8.1	Nail Plug / Ceiling Anchor @ 500 mm	pcs	1.6	1.6
8.3	Universal Screw FN 4.3 x 65 mm for mounting suspenders	pcs	0.6	0.6
	Drywall Screw 3.5 x 45 mm for mounting suspenders		1.2	1.2
10	Adjusting Bracket (load-bearing capacity 0.40 kN)	pcs	0.6	0.6
12	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0
13	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9
14	Vapour Control Membrane	m²	1.1	1.1

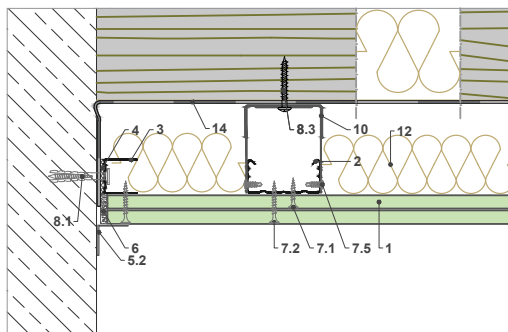
⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height x 4.0 m width), without accounting for the waste, scrapes and losses.

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

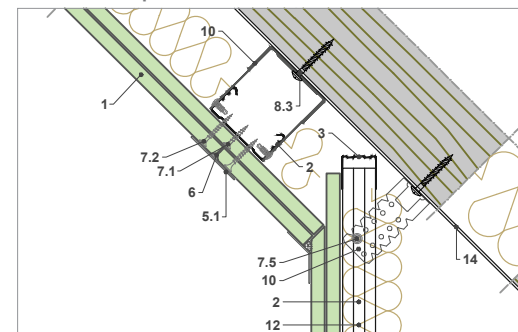
L01 Connection to solid concrete wall



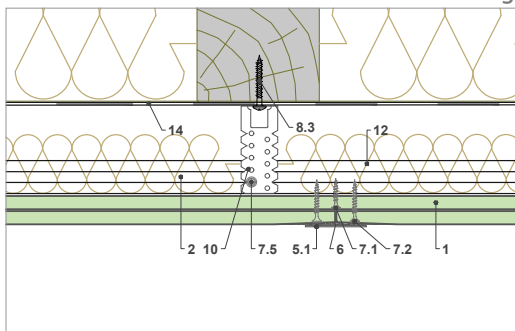
C01 Connection to solid concrete wall



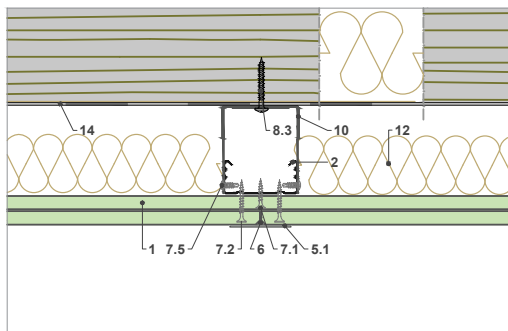
C04 Roof pitch / external wall below eaves



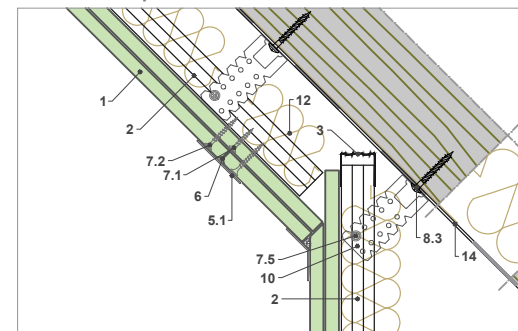
L02 Connection to rafter and recessed edge joint



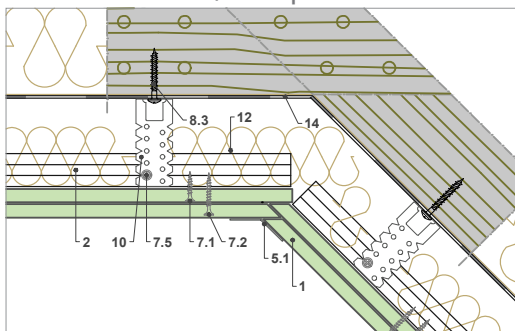
C02 Butt Joint



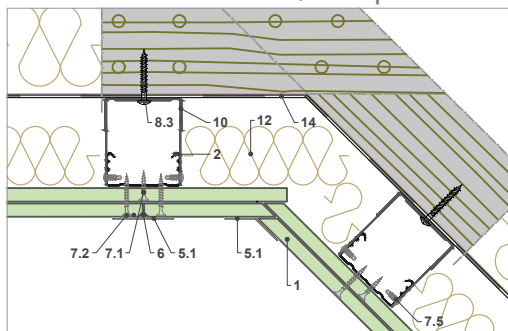
L04 Roof pitch / external wall below eaves



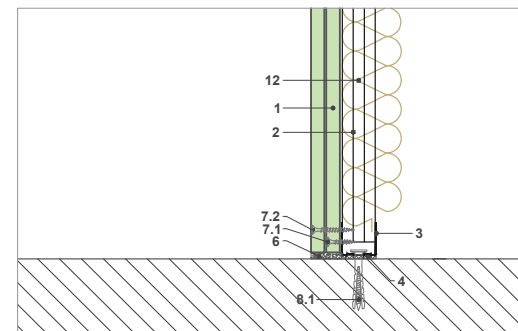
L03 Collar beams/Roof pitch



C03 Collar beams/Roof pitch



L05 Connection to solid concrete floor



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tapw	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug 6 x 40, 60, 80 mm	11. CD longitudinal connector
2. Premium Profile Z140 CD / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.3 Universal Screw FN 4.3 x 65	12. Mineral Wool
3. Premium Profile Z140 UD / 0.6 mm	6. Join Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	9. CD crosswise connector	14. Vapour Control Membrane
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	10. Suspender	

Metal grid design - permissible grid and suspenders spacing

Ceiling Load Class, kg/m ²				
Cladding	C1-1	C1-2	C1-3	C1-4
Standard Plasterboard Type A 12.5 mm	10.20	18.40	26.60	34.80
Moisture Resistant Plasterboard Type H2 12.5 mm	10.60	19.20	27.80	36.40
Fire Resistant Plasterboard Type DF 12.5 mm	12.20	22.40	32.60	42.80
Fire and Moisture Resistant Plasterboard Type DFH2 12.5 mm	12.50	23.00	33.50	44.00
Sound Comfort Extra Type DFIR 12.5 mm	14.00	26.00	38.00	50.00
Titan Board Type DFH1IR 12.5 mm	15.00	28.00	41.00	54.00
Blue Board Type GM-DFH1IR 12.5 mm	13.50	25.00	36.50	48.00
Standard Plasterboard Type A 15 mm	13.00	24.00	35.00	46.00
Moisture Resistant Plasterboard Type H2 15 mm	13.50	25.00	36.50	48.00
Fire Resistant Plasterboard Type DF 15 mm	14.00	26.00	38.00	50.00
Fire and Moisture Resistant Plasterboard Type DFH2 15 mm	14.50	27.00	39.50	52.00

* Weight of the suspended ceiling (cladding and metal grid) without additional loads of insulating material and suspended objects.

Suspenders and Fasteners

Suspenders Technogips Pro	Load-bearing Capacity Class	Fasteners (for timber rafters)
Adjusting Bracket	0,40 kN	2 x Drywall Screw TN 3.5 x 35 1 x Universal Screw FN 4.3 x 35
Acoustic Adjusting Bracket	0,40 kN	1 x Universal Screw FN 4.3 x 65
Nonius Hanger	0,40 kN	2 x Drywall Screw TN 3.5 x 35 1 x Universal Screw FN 4.3 x 35
Click-Fix Hanger	0,40 kN	2 x Drywall Screw TN 3.5 x 35 1 x Universal Screw FN 4.3 x 35
Attic Hanger Anchor Type	0,25 kN	2 x Drywall Screw TN 3.5 x 35 1 x Universal Screw FN 4.3 x 35
Rotary Hanger Moon / Anchor Type	0,25 kN	1 x Universal Screw FN 4.3 x 35

Permissible Axial Distance, mm

Furring Channel	Suspenders according to ceiling load class, kg/m ²			
	< 15 kg/m ²	< 30 kg/m ²	< 40 kg/m ² *	< 50 kg/m ² *
Adjusting Bracket, Nonius Hanger [0.40 kN (40 kg)]				
400	1475	1175	1050	1000
500	1400	1100	975	925
Rotary Hanger Moon/Anchor Type, Attic Hanger Anchor Type [0.25 kN (25 kg)]				
400	1475	1175	925	750
500	1375	1000	750	600

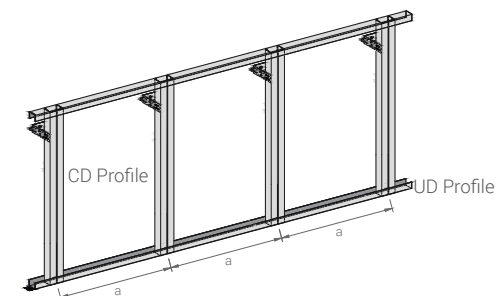
** Permissible spacing of 400 mm when longitudinal installation of the boards
Permissible spacing of 500 mm when transversal installation of the boards

Fasteners Length

Board Thickness	1st Layer	2nd Layer
12.5 mm	3.5 x 25	3.5 x 35
15.0 mm	3.5 x 25	3.5 x 45

Fasteners Spacing

Number of Layers	1st Layer	2nd Layer
Single	200	x
Double	400	200

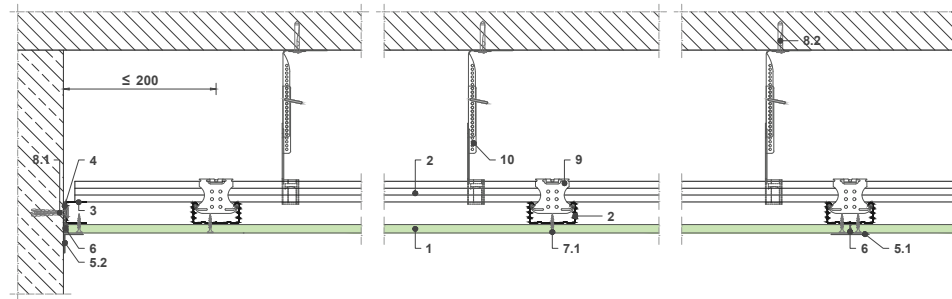
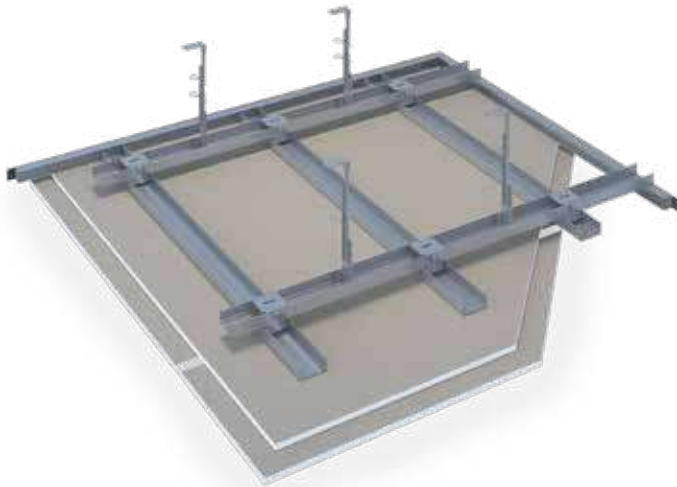


Wall below eaves, studs axial distance

Cladding [mm]	Distance [mm] - a
12.5	600
2x12.5	600

SUSPENDED CEILINGS

Technogips Pro C2



C2-1 - Without Fire Resistance Class

Board Type:	Cladding 1 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Suspender @ 1000 mm
	Carrying Channel @ 1200 mm
	Furring Channel @ 500 mm

C2-2 - Fire Resistance Class EI 60

Board Type:	Cladding 2 x 15 mm
DF / DFH2	Suspender @ 700 mm
	Carrying Channel @ 700 mm
	Furring Channel @ 400 mm

C2-3 - Fire Resistance Class EI 90

Board Type:	Cladding 3 x 15 mm
DF / DFH2	Suspender @ 600 mm
	Carrying Channel @ 600 mm
	Furring Channel @ 400 mm

C2-4 - Fire Resistance Class EI 120

Board Type:	Cladding 4 x 15 mm
DF / DFH2	Suspender @ 600 mm
	Carrying Channel @ 600 mm
	Furring Channel @ 400 mm

Material Consumption ⁽¹⁾ per 1 m ²			Systems			
			C2-1 1x12.5	C2-2 2x15	C2-3 3x15	C2-4 4x15
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	1.0	2.0	3.0	4.0
2	Premium Profile Z140 CD 60 0.6 mm	m'	3.0	4.1	4.4	4.4
3	Premium Profile Z140 UD 27 0.6 mm	m'	0.4	0.4	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4	0.4	0.4
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	0.9	0.9	0.9	0.9
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.4	0.4	0.4	0.4
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.3	0.6	0.9	1.2
7.1	Drywall Screw 3.5 x 25 mm	pcs	20.0	10.0	10.0	10.0
7.2	Drywall Screw 3.5 x 35 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 15.0 mm boards	pcs	-	20.0	10.0	10.0
7.3	Drywall Screw 3.5 x 55 mm @ 12.5 mm boards Drywall Screw 4.2 x 70 mm @ 15.0 mm boards	pcs	-	-	20.0	10.0
7.4	Drywall Screw 4.2 x 70 mm	pcs	-	-	-	20.0
7.5	Self-drilling Screw TEX LB or Drywall Screw TEX LN 4.2 x 13 mm	pcs	3.3	5.6	7.3	7.3
8.1	Nail Plug @ 500 mm for mounting peripheral UD profiles	pcs	0.8	0.8	0.8	0.8
8.2	Ceiling Anchor for mounting suspenders	pcs	1.0	2.3	3.1	3.1
9	CD Cross Connector	pcs	2.0	4.0	4.6	4.6
10	Rotary Hanger Moon / Anchor; Attic Hanger Anchor (load-bearing capacity 0.25)	pcs	1.0	-	-	-
	Adjusting Bracket or Rotary Hanger (load-bearing capacity 0.40 kN)		1.0	2.3	3.1	3.1
11	CD Longitudinal Connector 0.5 mm	pcs	0.2	0.2	0.3	0.3
12	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	1.0	1.0	1.0	1.0
13	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9	0.9	0.9

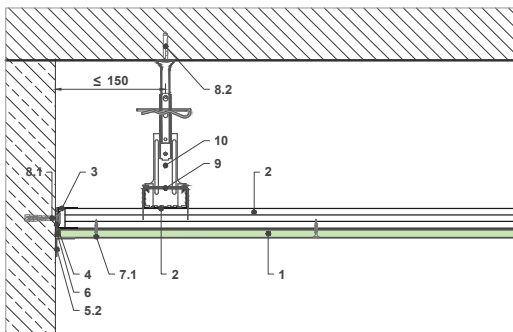
⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 100 m² (10 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 1.3 m²/m².

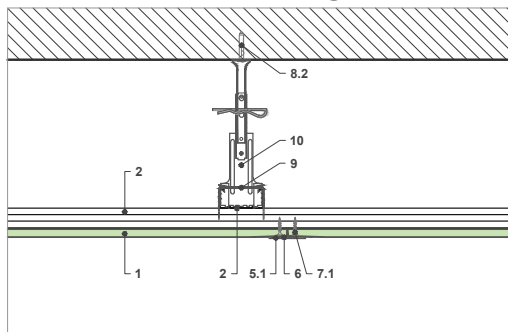
⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

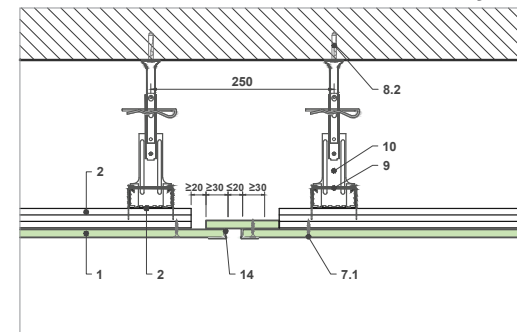
L01 Connection to solid concrete wall



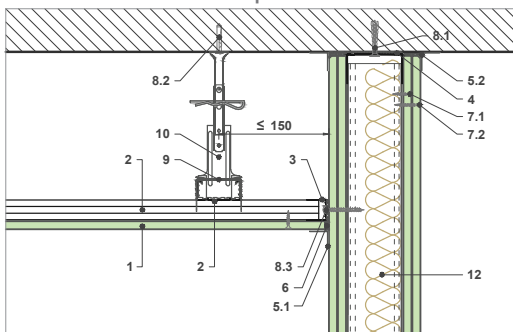
L03 Recessed Edge Joint



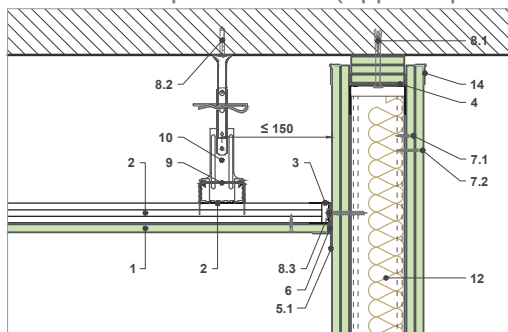
L04 Dilatation joint



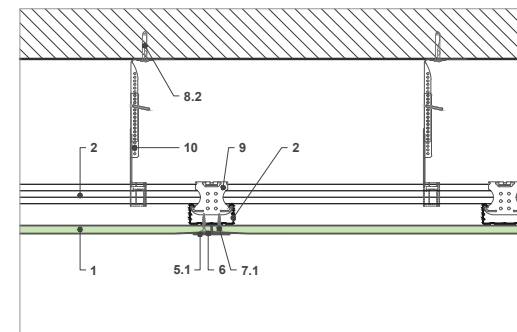
L02.1 Connection to partition wall



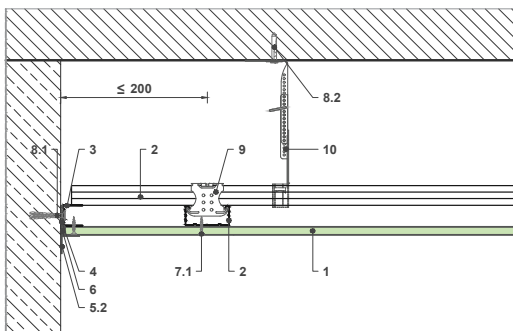
L02.2 Connection to partition wall (Upper Expansion Joint)



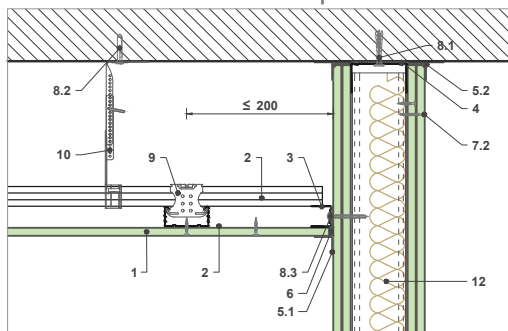
C03 Butt Joint



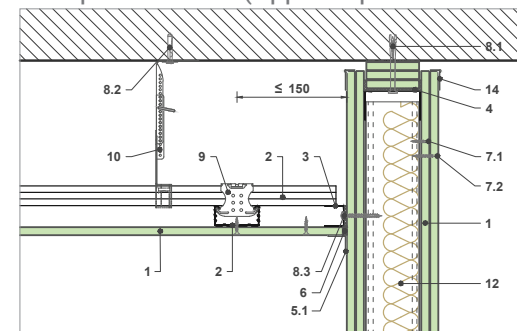
C01 Connection to solid concrete wall



C02.1 Connection to partition wall



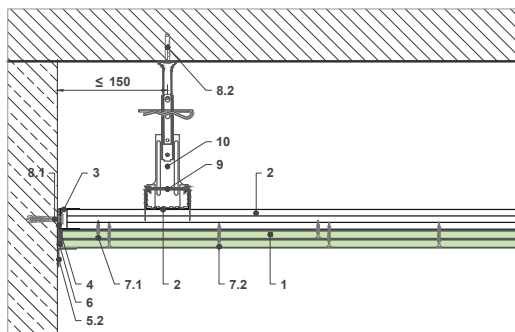
C02.2 Connection to partition wall (Upper Expansion Joint)



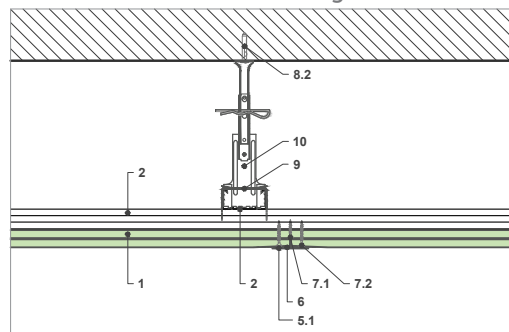
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug 6 x 40, 60, 80 mm	10. Sponder
2. Premium Profile Z140 CD / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Ceiling Anchor 6 x 40, 65 mm	11. CD longitudinal Connector
3. Premium Profile Z140 UD / 0.6 mm	6. Joint Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	8.3 Universal Screw FN 4.3 x 65	12. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. CD Crosswise Connector	14. Corner Tape ALUX

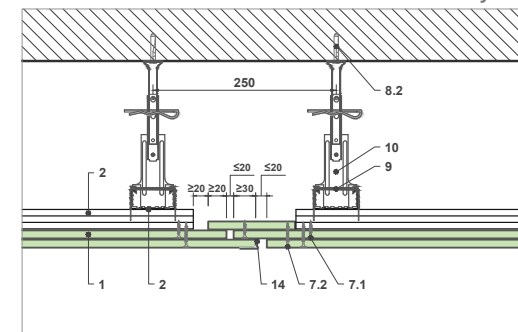
L01 Connection to solid concrete wall



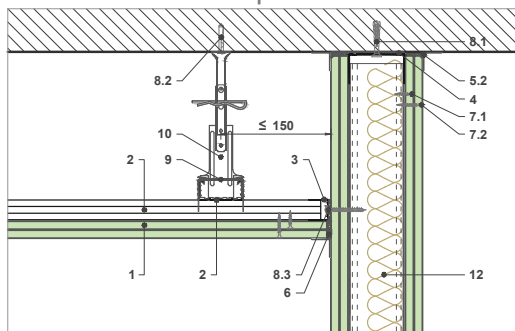
L03 Recessed Edge Joint



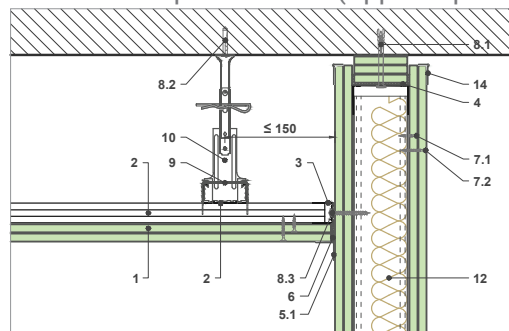
L04 Dilatation joint



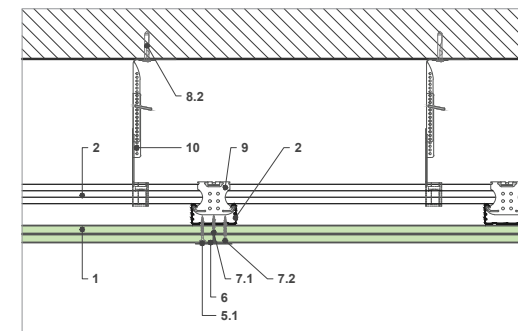
L02.1 Connection to partition wall



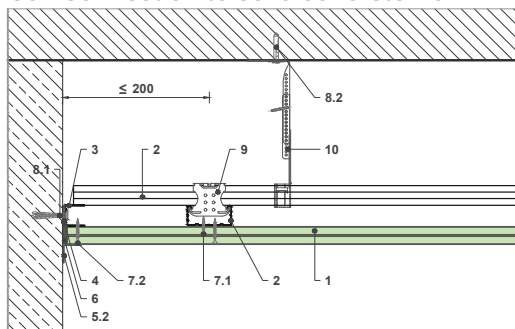
L02.2 Connection to partition wall (Upper Expansion Joint)



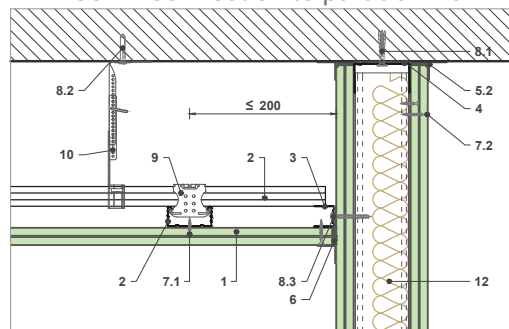
C03 Butt Joint



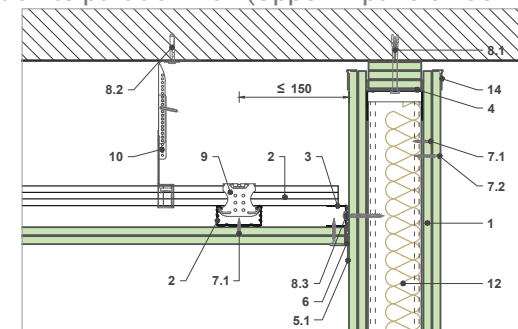
C01 Connection to solid concrete wall



C02.1 Connection to partition wall



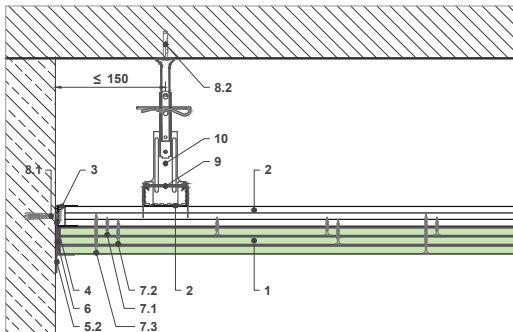
C02.2 Connection to partition wall (Upper Expansion Joint)



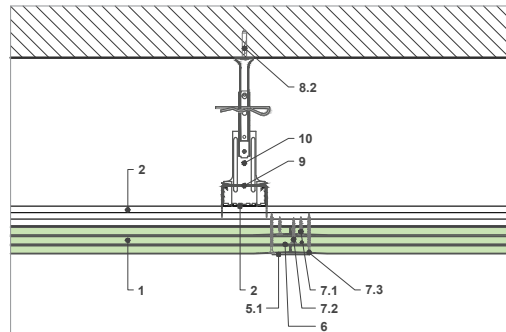
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug 6 x 40, 60, 80 mm	10. Sponder
2. Premium Profile Z140 CD / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Ceiling Anchor 6 x 40, 65 mm	11. CD longitudinal Connector
3. Premium Profile Z140 UD / 0.6 mm	6. Joint Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	8.3 Universal Screw FN 4.3 x 65	12. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. CD Crosswise Connector	14. Corner Tape ALUX

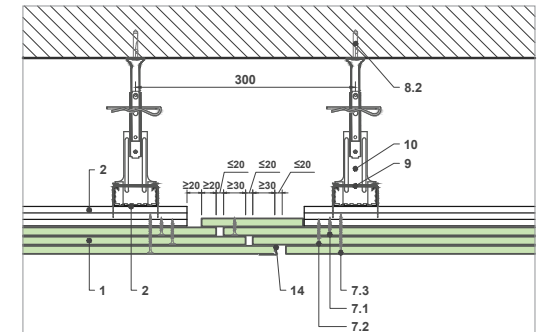
L01 Connection to solid concrete wall



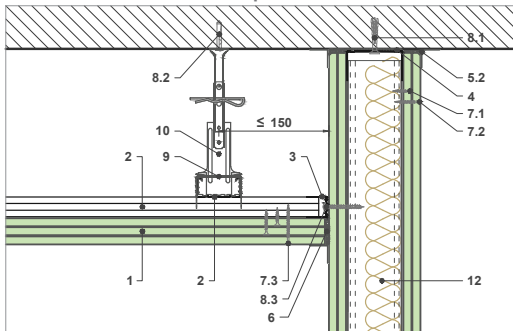
L03 Recessed Edge Joint



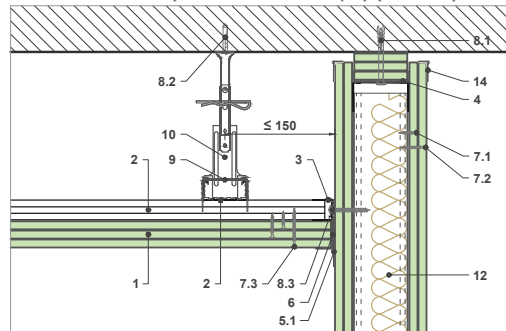
L04 Dilatation joint



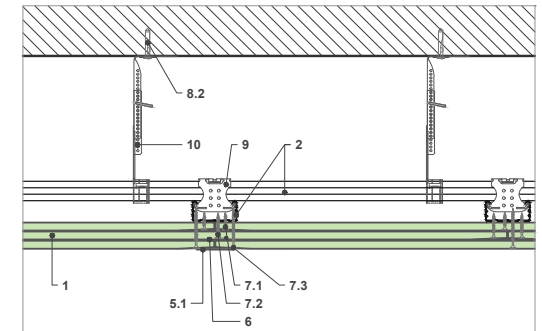
L02.1 Connection to partition wall



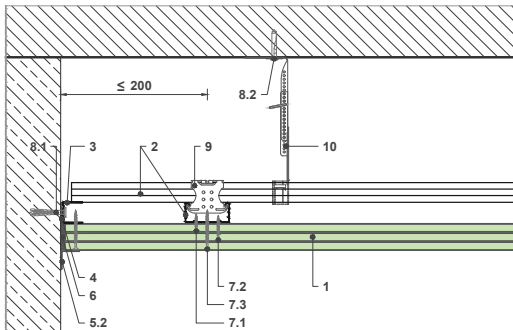
L02.2 Connection to partition wall (Upper Expansion Joint)



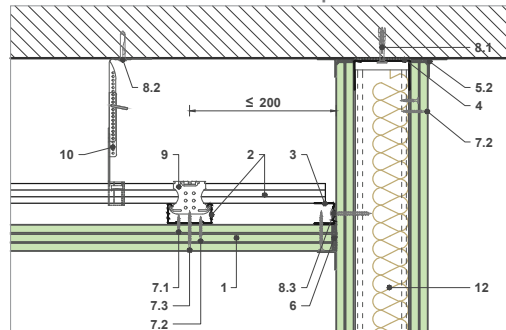
C03 Butt Joint



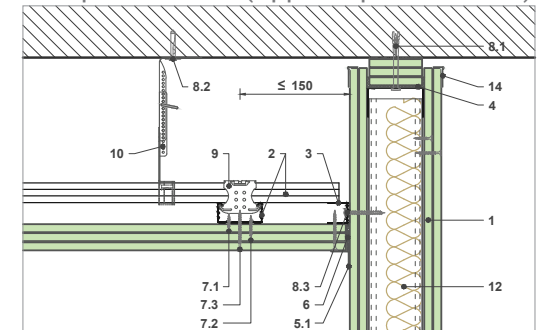
C01 Connection to solid concrete wall



C02.1 Connection to partition wall



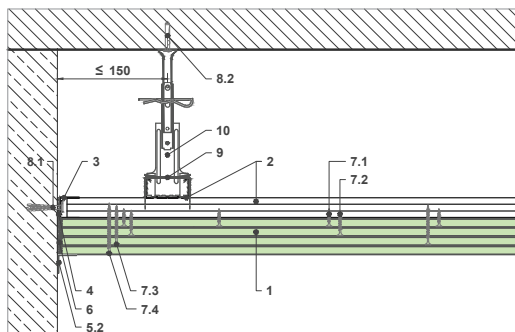
C02.2 Connection to partition wall (Upper Expansion Joint)



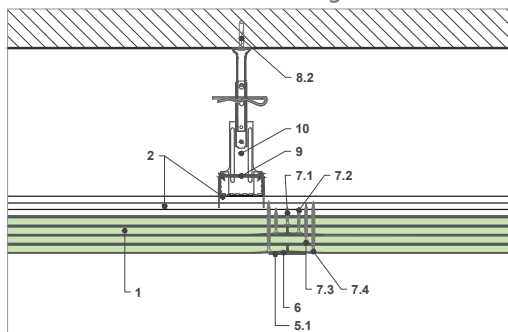
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug 6 x 40, 60, 80 mm	10. Sponder
2. Premium Profile Z140 CD / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Ceiling Anchor 6 x 40, 65 mm	11. CD longitudinal Connector
3. Premium Profile Z140 UD / 0.6 mm	6. Joint Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	8.3 Universal Screw FN 4.3 x 65	12. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. CD Crosswise Connector	14. Corner Tape ALUX

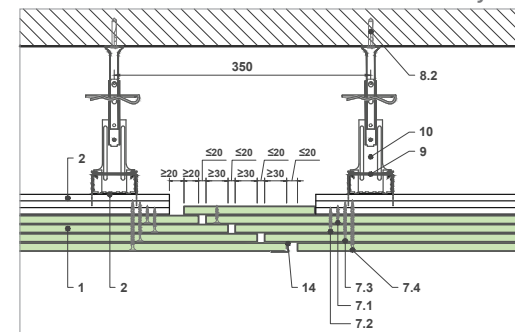
L01 Connection to solid concrete wall



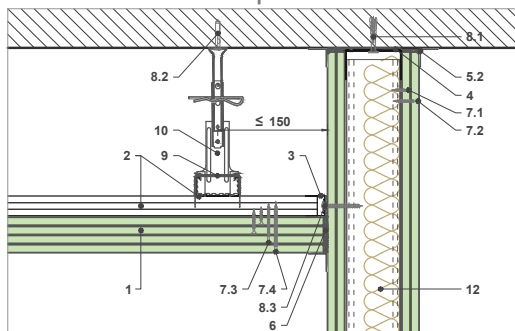
L03 Recessed Edge Joint



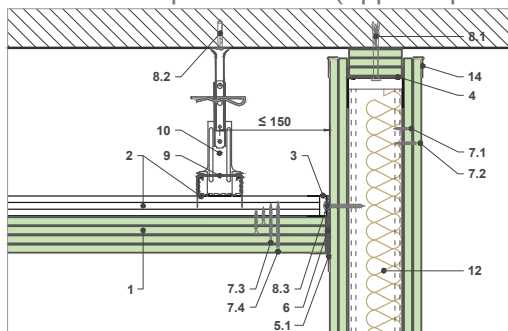
L04 Dilatation joint



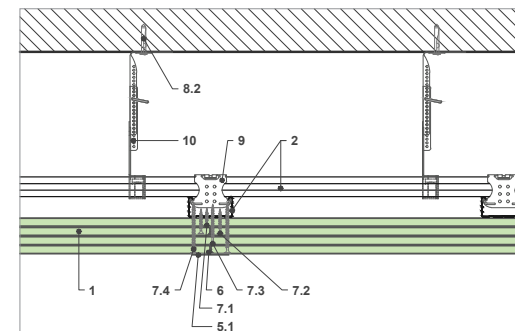
L02.1 Connection to partition wall



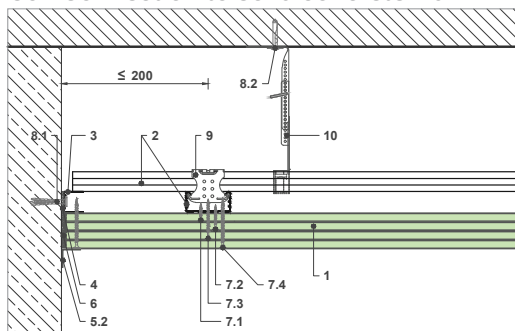
L02.2 Connection to partition wall (Upper Expansion Joint)



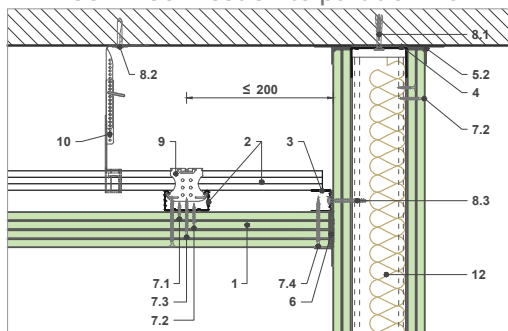
C03 Butt Joint



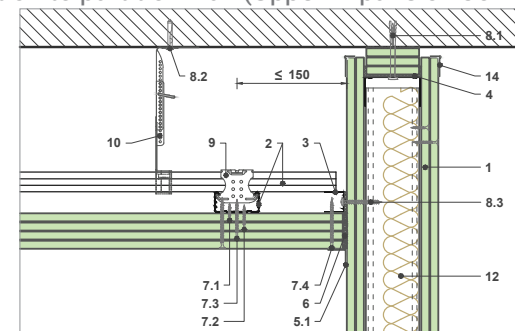
C01 Connection to solid concrete wall



C02.1 Connection to partition wall



C02.2 Connection to partition wall (Upper Expansion Joint)



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.1 Nail Plug 6 x 40, 60, 80 mm	10. Sponder
2. Premium Profile Z140 CD / 0.6 mm	5.2 Separation Strip TrennFix	7.3 Drywall Screw 3.5 x 55 mm	8.2 Ceiling Anchor 6 x 40, 65 mm	11. CD longitudinal Connector
3. Premium Profile Z140 UD / 0.6 mm	6. Joint Filler FUGA	7.4 Drywall Screw 4.2 x 70 mm	8.3 Universal Screw FN 4.3 x 65	12. Mineral Wool
4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. CD Crosswise Connector	14. Corner Tape ALUX

Design considerations for suspended ceilings without fire rating

Ceiling Load Class P, kg/m ²				
Cladding	C2-1	C2-2	C2-3	C2-4
Standard Plasterboard Type A 12.5 mm	11.20	19.40	27.60	35.80
Moisture Resistant Plasterboard Type H2 12.5 mm	11.60	20.20	28.80	37.40
Fire Resistant Plasterboard Type DF 12.5 mm	13.20	23.40	33.60	43.80
Fire and Moisture Resistant Plasterboard Type DFH2 12.5 mm	13.50	24.00	34.50	45.00
Sound Comfort Extra Type DFIR 12.5 mm	15.00	27.00	39.00	51.00
Titan Board Type DFH1IR 12.5 mm	16.00	29.00	42.00	55.00
Blue Board Type GM-DFH1IR 12.5 mm	14.50	26.00	37.50	49.00
Standard Plasterboard Type A 15 mm	14.00	25.00	36.00	47.00
Moisture Resistant Plasterboard Type H2 15 mm	14.00	26.00	37.50	49.00
Fire Resistant Plasterboard Type DF 15 mm	15.00	27.00	39.00	51.00
Fire and Moisture Resistant Plasterboard Type DFH2 15 mm	15.50	28.00	40.50	53.00

* Weight of the suspended ceiling (cladding and metal grid) without additional loads of insulating material and suspended objects

Fasteners Length

Board Thickness	1st Layer	2nd Layer	3rd Layer	4th Layer
12.5 mm	3.5 x 25	3.5 x 35	3.5 x 55	4.2 x 70
15.0 mm	3.5 x 25	3.5 x 45	3.5 x 55	4.2 x 70

Fasteners Spacing

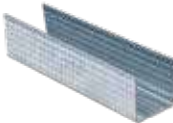
Number of Layers	1st Layer	2nd Layer	3rd Layer	4th Layer
Single	200	x	x	x
Double	400	200	x	x
Triple	400	400	200	x
Quadruple	400	400	400	200

		
Ceiling Anchor	Nail Plug	Drywall Screw
For fixing suspenders to concrete slab	For fixing peripheral UD27 profiles to surrounding structure	For fixing plasterboard to the metal grid with metal gauge <0.7 mm

Technogips Pro C2 - Double Metal Grid					
Permissible axial distance, mm					
Carrying Channel	Furring Channel	Suspenders according to ceiling load class P, kg/m ²			
		< 15 kg/m ²	< 30 kg/m ²	< 50 kg/m ² *	< 60 kg/m ² *
500	400/500**	1200	900	750	600
600		1150	850	700	550
1000		950	750	-	-
1200		900	-	-	-

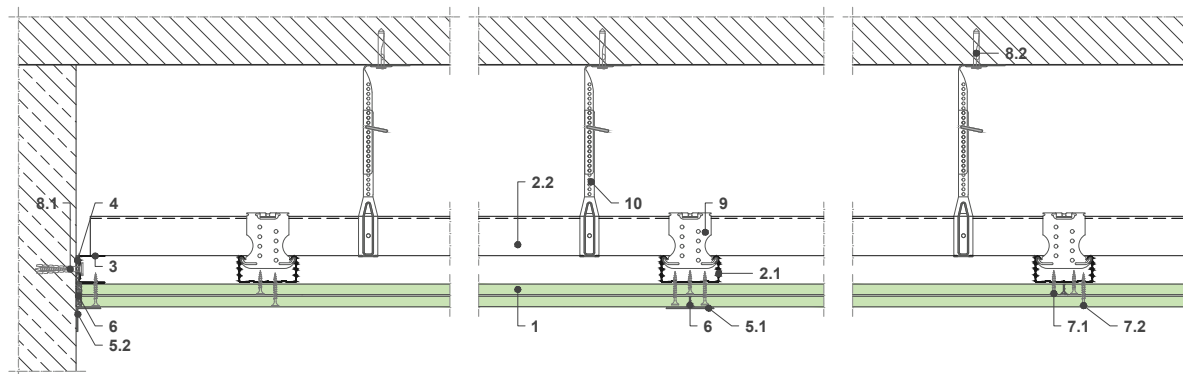
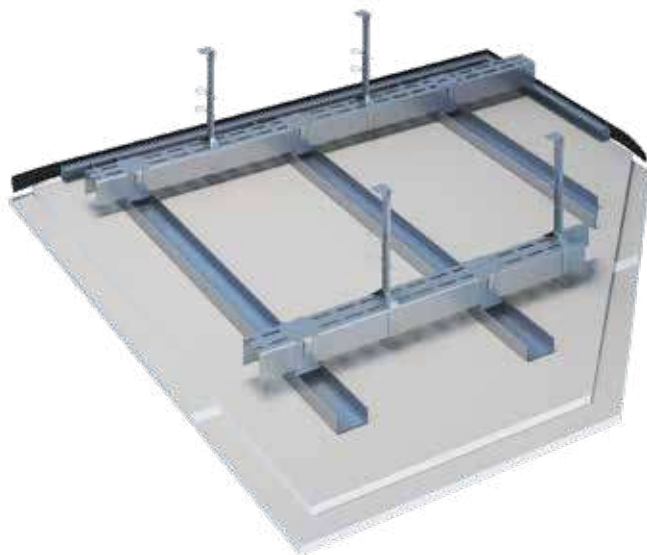
* Mandatory use of Nonius hanger or Adjusting bracket 0.4 kN

** Permissible spacing of 400 mm when longitudinal installation of the boards
Permissible spacing of 500 mm when transversal installation of the boards

				
Premium Profile CD 60	Premium Profile UD 27	CD Crosswise Connector	CD Long. Connector	Self-drilling Screw TEX LB
Carrying/Furring Channel	Peripheral Channel	For secure cross-tie connection between load-carrying and furring CD 60 profiles.	For longitudinal extension of CD60 Profiles	For securing profile extensions and fixing Adjusting Brackets to CD60 Profiles
				
Suspenders (with load-bearing capacity 0.40 kN)		Suspenders (with load-bearing capacity 0.25 kN)		
Nonius Hanger	Adjusting Bracket	Rotary Anchor Moon	Rotary Hanger Anchor	Attic Hanger Anchor
For pressure resistant suspension of the metal grid to the main ceiling.	For stable and secure suspension of the metal grid.	For stable and secure suspension of the metal grid.	For direct suspension of the metal grid to the main ceiling.	For direct suspension of the metal grid to the timber rafters.

SUSPENDED CEILINGS WITH UA

Technogips Pro C2 UA



Material Consumption ⁽¹⁾ per 1 m ²		Systems		
		C2-1 UA 1x12.5	C2-2 UA 2x12.5	
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	1.0	2.0
2	Premium Profile Z140 CD 60 0.6 mm	m'	2.1	2.1
2.1	Premium Profile UA 2.0 mm	m'	0.9	1.1
3	Premium Profile Z140 UD 27 0.6 mm	m'	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	0.9	0.9
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.4	0.4
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.3	0.6
7.1	Drywall Screw 3.5 x 25 mm	pcs	20.0	10.0
7.2	Drywall Screw 3.5 x 35 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 15.0 mm boards	pcs	-	20.0
7.5	Self-drilling Screw TEX LB or Drywall Screw TEX LN 4.2 x 13 mm	pcs	1.7	2.0
8.1	Nail Plug @ 500 mm for mounting peripheral UD profiles	pcs	0.8	0.8
8.2	Ceiling Anchor for mounting suspenders	pcs	0.6	0.7
9	CD-UA Cross Connector	pcs	2.0	2.3
10	UA Adjusting Bracket or Nonius Hanger for UA	pcs	0.6	0.7
11	CD Longitudinal Connector 0.5 mm	pcs	0.2	0.2
12	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	1.0	1.0
13	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9

⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 100 m² (10 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 1.3 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

C2-1 UA

Board Type:

A / H2 / DF / DFH2 / SCE DFIR /
Titan Board / Blue Board

Cladding 1 x 12.5 mm

Suspender @ 2000 mm

Carrying Channel @ 1200 mm

Furring Channel @ 500 mm

C2-2 UA

Board Type:

A / H2 / DF / DFH2 / SCE DFIR /
Titan Board / Blue Board

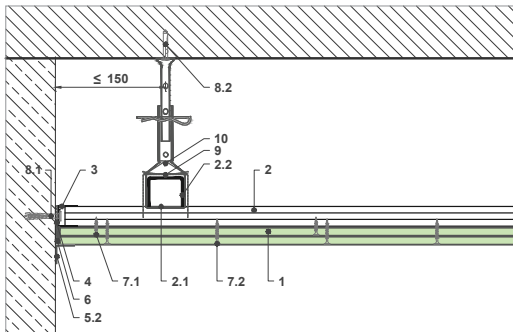
Cladding 2 x 12.5 mm

Suspender @ 2000 mm

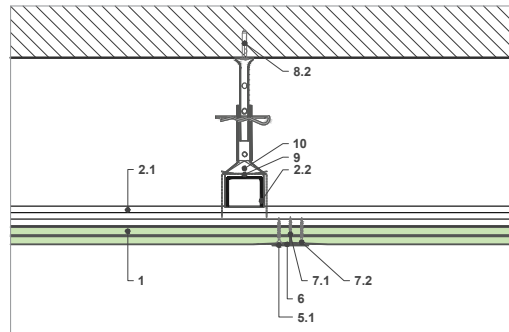
Carrying Channel @ 1000 mm

Furring Channel @ 500 mm

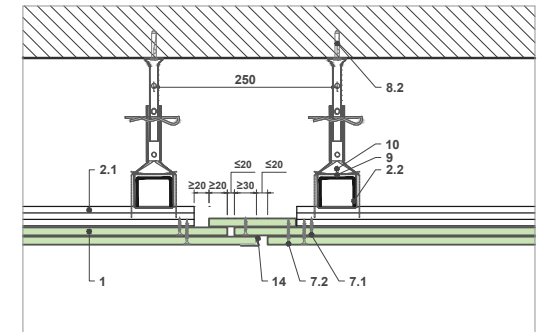
L01 Connection to solid concrete wall



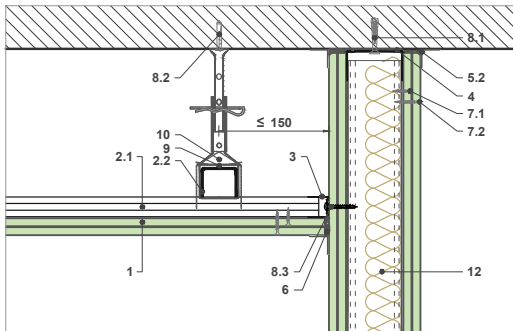
L03 Recessed Edge Joint



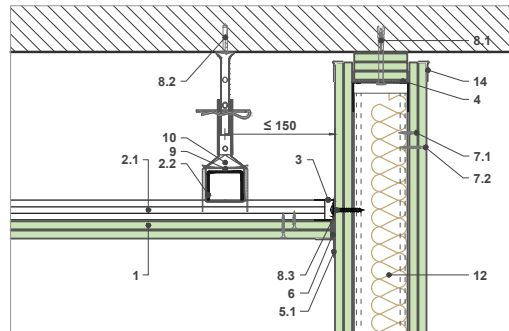
L04 Dilatation joint



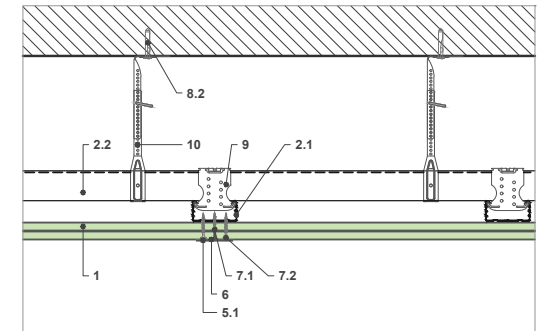
L02.1 Connection to partition wall



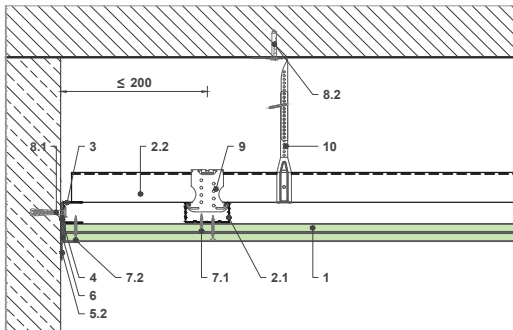
L02.2 Connection to partition wall (Upper Expansion Joint)



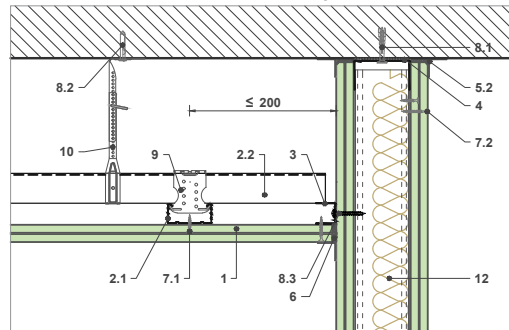
C03 Butt Joint



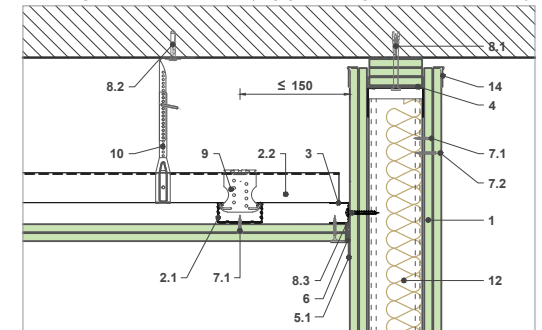
C01 Connection to solid concrete wall



C02.1 Connection to partition wall



C02.2 Connection to partition wall (Upper Expansion Joint)



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	4. Acoustic Tape	7.1 Drywall Screw 3.5 x 25 mm	8.2 Ceiling Anchor 6 x 40, 65 mm	11.1 CD Long. Connector
2.1 Premium Profile Z140 CD / 0.6 mm	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	8.3 Universal Screw FN 4.3 x 65	11.2 Premium Profile UW for UA extension
2.2 Premium Profile UA / 2.0 mm	5.2 Separation Strip TrennFix	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. CD - UA Crosswise Connector	12. Mineral Wool
3. Premium Profile Z140 UD / 0.6 mm	6. Joint Filler FUGA	8.1 Nail Plug 6 x 40, 60, 80 mm	10. Suspender for UA 50	14. Corner Tape ALUX

Design considerations for suspended ceilings without fire rating

Ceiling Load Class P, kg/m ²				
Cladding	C2-1	C2-2	C2-3	C2-4
Standard Plasterboard Type A 12.5 mm	11.20	19.40	27.60	35.80
Moisture Resistant Plasterboard Type H2 12.5 mm	11.60	20.20	28.80	37.40
Fire Resistant Plasterboard Type DF 12.5 mm	13.20	23.40	33.60	43.80
Fire and Moisture Resistant Plasterboard Type DFH2 12.5 mm	13.50	24.00	34.50	45.00
Sound Comfort Extra Type DFIR 12.5 mm	15.00	27.00	39.00	51.00
Titan Board Type DFH2IR 12.5 mm	16.00	29.00	42.00	55.00
Blue Board Type GM-DFH1IR 12.5 mm	14.50	26.00	37.50	49.00
Standard Plasterboard Type A 15 mm	14.00	25.00	36.00	47.00
Moisture Resistant Plasterboard Type H2 15 mm	14.50	26.00	37.50	49.00
Fire Resistant Plasterboard Type DF 15 mm	15.00	27.00	39.00	51.00
Fire and Moisture Resistant Plasterboard Type DFH2 15 mm	15.50	28.00	40.50	53.00

* Weight of the suspended ceiling (cladding and metal grid) without additional loads of insulating material and suspended objects

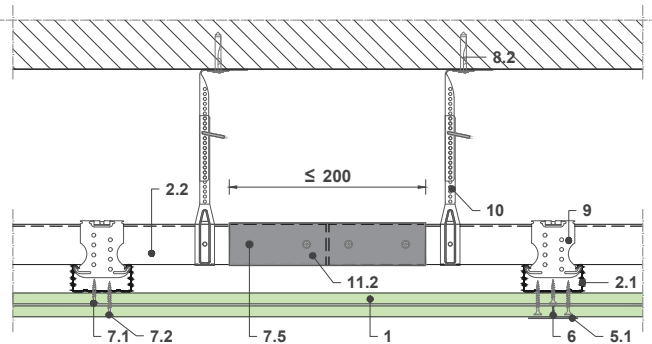
Technogips Pro C2 UA - Large-span metal grid with CD and UA

Permissible axial distance, mm					
Carriygn Channel	Furring Channel	Suspenders according to ceiling load class P, kg/m ²			
		< 15 kg/m ²	< 30 kg/m ²	< 50 kg/m ² *	< 60 kg/m ² *
500	400/500**	2600	2050	1600	1200
600		2450	1950	1300	1000
700		2300	1850	1100	850
800		2200	1650	1000	-
900		2150	1450	-	-
1000		2050	1300	-	-
1100		2000	1200	-	-
1200		1950	-	-	-
1300		1900	-	-	-
1400		1850	-	-	-
1500		1750	-	-	-

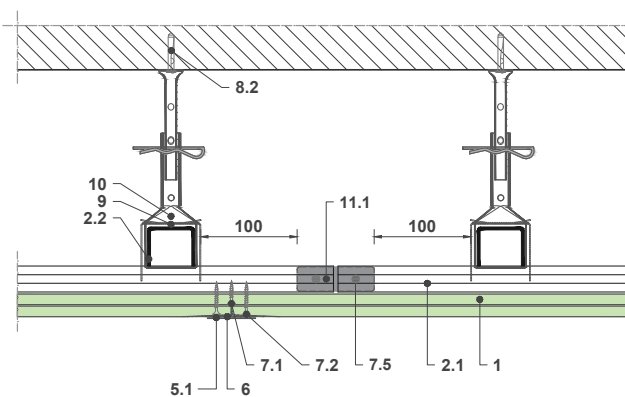
* Mandatory use of Nonius hanger or Adjusting bracket 0.4 kN

** Permissible spacing of 400 mm when longitudinal installation of the boards
Permissible spacing of 500 mm when transversal installation of the boards

Extension of UA profile with a piece of UW profile



Extension of CD60 profile with a CD Longitudinal Connector

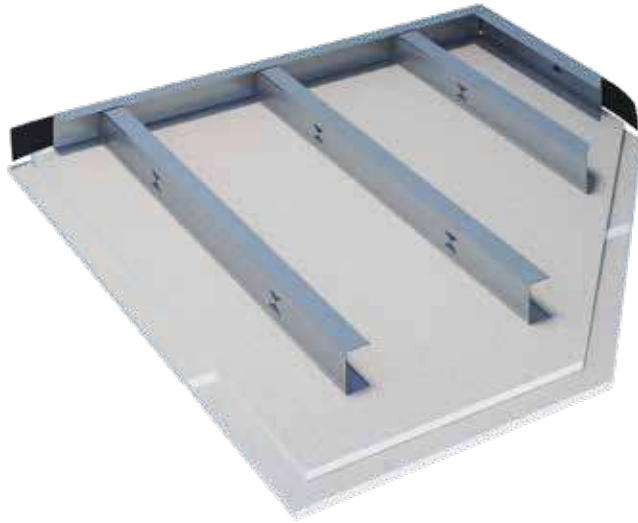


CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro	5.1 Joint Tape	7.2 Drywall Screw 3.5 x 35 / 45 mm	9. CD - UA Crosswise Connector	11.2 Premium Profile UW for UA extension
2.1 Premium Profile Z140 CD / 0.6 mm	6. Joint Filler FUGA	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	10. Suspender for UA 50	
2.2 Premium Profile UA / 2.0 mm	7.1 Drywall Screw 3.5 x 25 mm	8.2 Ceiling Anchor 6 x 40, 65 mm	11.1 CD Long. Connector	

FREE SPANNING CEILINGS

Technogips Pro CS1 CW



CS1-1 1xCW

Board Type:	Cladding 1 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Furring Channel @ 500 mm

CS1-2 1xCW

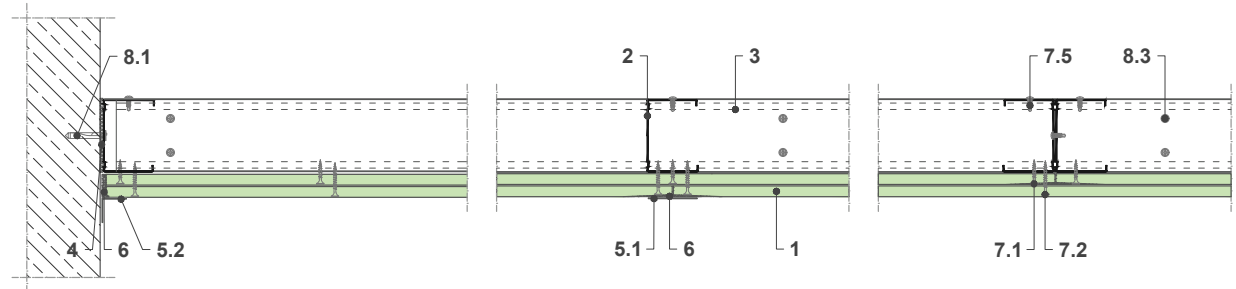
Board Type:	Cladding 2 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Furring Channel @ 500 mm

CS1-1 2xCW

Board Type:	Cladding 1 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Furring Channel @ 600 mm

CS1-2 2xCW

Board Type:	Cladding 2 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Furring Channel @ 600 mm



Material Consumption ⁽¹⁾ per 1 m ²			Systems			
			CS1-1 1xCW	CS1-2 1xCW	CS1-1 2xCW	CS1-2 2xCW
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	m ²	1.0	2.0	1.0	2.0
2	Premium Profile Z140 CW 0.6 mm	m'	2.1	2.1	3.3	3.3
3	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	0.7	0.7	0.7	0.7
5.1	Joint Tape @ all inner joints ⁽²⁾	m'	0.9	0.9	0.9	0.9
5.2	Separation Strip TrennFix @ all peripheral joints	m'	0.4	0.4	0.4	0.4
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.3	0.6	0.3	0.6
7.1	Drywall Screw 3.5 x 25 mm	pcs	14.0	7.0	14.0	7.0
7.2	Drywall Screw 3.5 x 35 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 15.0 mm boards	pcs	-	14.0	-	14.0
7.5	Self-drilling Screw TEX LB or Drywall Screw TEX LN 4.2 x 13 mm	pcs	1.4	1.4	2.8	2.8
8.1	Nail Plug / Ceiling Anchor @ 300 mm for mounting peripheral profiles to concrete or masonry wall	pcs	3.0	3.0	3.0	3.0
8.3	Universal Screw FN 4.3 x 65 mm @ 600 mm in case of mounting peripheral profiles to metal studs of drywall partition	pcs	2.8	2.8	2.8	2.8
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m ²	1.0	1.0	1.0	1.0
13	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9	0.9	0.9

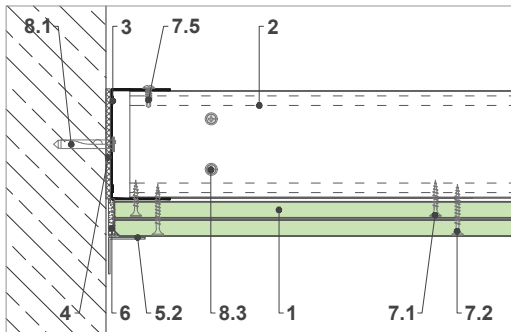
⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 30 m² (3 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 1.3 m'/m².

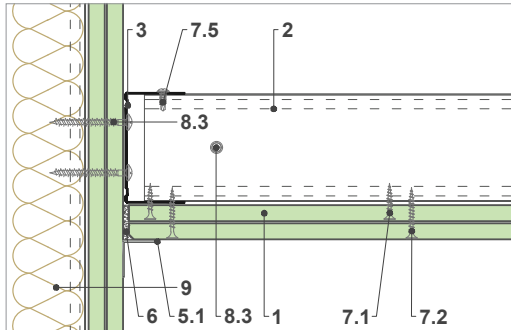
⁽³⁾ Consumption rate of FUGA&FINISH is 0.35 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

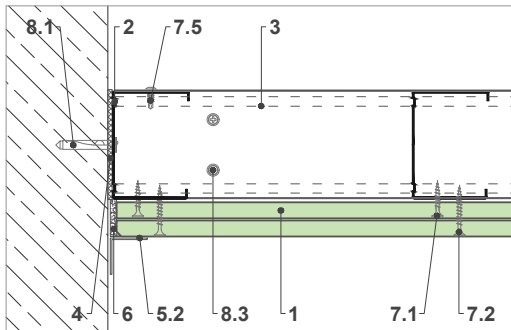
L01 Load-bearing connection to solid concrete wall



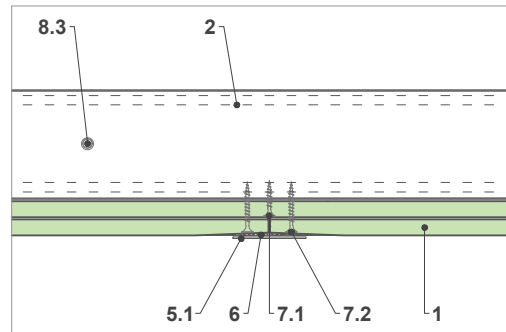
L02 Load-bearing connection to partition wall



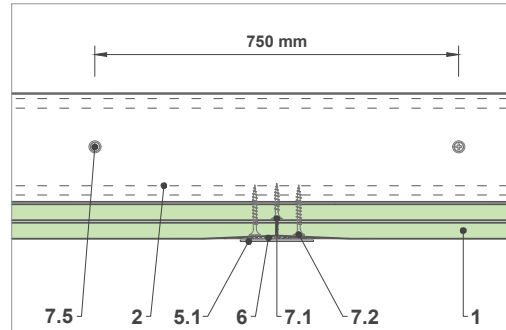
C01 Structural connection to solid concrete wall



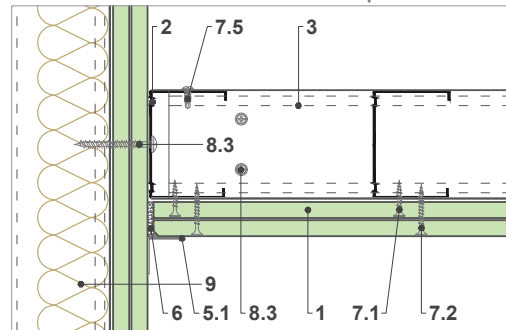
L03.1 Recessed Edge Joint



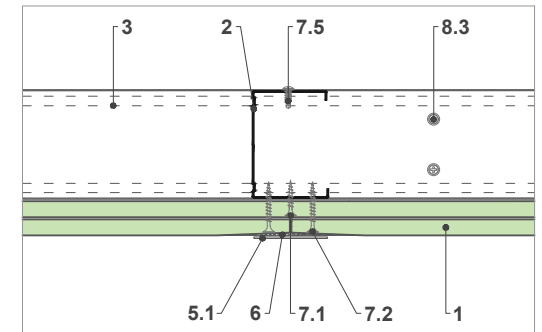
L04 Double furring channel connection



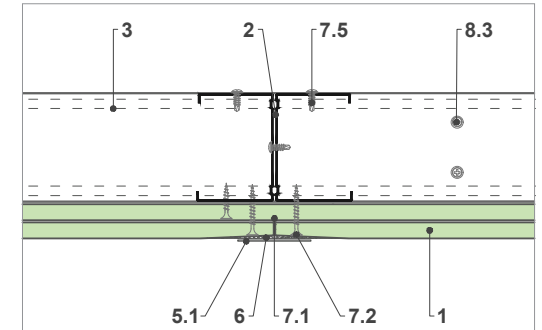
C02 Structural connection to partition wall



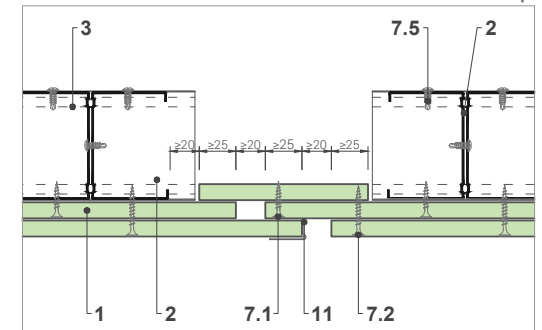
C03.1 Butt Joint - single furring channel



C03.2 Butt Joint - double furring channel



C04 Dilatation Gap



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro
2. Premium Profile Z140 CW / 0.6 mm
3. Premium Profile Z140 UW / 0.6 mm
4. Acoustic Tape

- 5.1 Joint Tape
- 5.2 Separation Strip TrennFix
6. Joint Filler FUGA
- 7.1 Drywall Screw 3.5 x 25 mm

- 7.2 Drywall Screw 3.5 x 35 / 45 mm
- 7.5 Self-drilling Screw TEX LB 4.2 x 13 mm
- 8.1 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm
- 8.3 Universal Screw FN 4.3 x 65

9. Mineral Wool
11. Corner Tape ALUX

FREE SPANNING CEILINGS

Technogips Pro CS1 UA



CS1-1 1xUA

Board Type:	Cladding 1 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR /	Furring Channel @ 500 mm
Titan Board / Blue Board	

CS1-2 1xUA

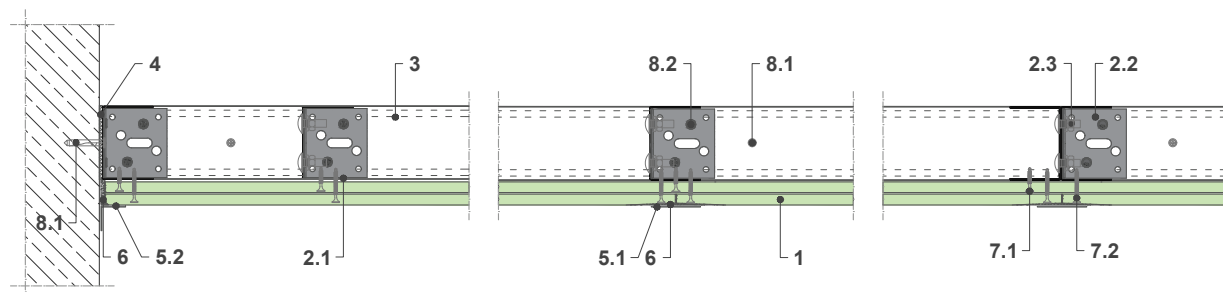
Board Type:	Cladding 2 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Furring Channel @ 500 mm

CS1-1 2xUA

Board Type:	Cladding 1 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Furring Channel @ 600 mm

CS1-2 2xUA

Board Type:	Cladding 2 x 12.5 mm
A / H2 / DF / DFH2 / SCE DFIR / Titan Board / Blue Board	Furring Channel @ 600 mm



Разходна норма ⁽¹⁾ за 1 м ²			Системи			
			CS1-1 1xUA	CS1-2 1xUA	CS1-1 2xUA	CS1-2 2xUA
1	Gypsum Board Technogips Pro Type A / H2 / DF / DFH2 / Sound Comfort Extra DFIR / Titan Board DFH1IR / Blue Board GM DFH1IR	м ²	1.0	2.0	1.0	2.0
2.1	Prmium Profile UA 2.0 mm	м'	2.1	2.1	3.3	3.3
2.2	Angle for UA Profile	pcs	1.3	1.3	1.0	1.0
2.3	Mounting Set for UA Profile (bolt, nut and washer)	pcs	2.5	2.5	3.7	3.7
3	Prmium Profile Z140 UW 0.6 mm	м'	0.7	0.7	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	м'	0.7	0.7	0.7	0.7
5.1	Joint Tape @ all inner joints ⁽²⁾	м'	0.9	0.9	0.9	0.9
5.2	Separation Strip TrennFix @ all peripheral joints	м'	0.4	0.4	0.4	0.4
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers	kg	0.3	0.6	0.3	0.6
7.1	Self-drilling Screw TB 3.5 x 25 mm	pcs	14.0	7.0	14.0	7.0
7.2	Self-drilling Screw TB 3.5 x 35 mm 12.5 mm boards Self-drilling Screw TB 3.5 x 45 mm 15.0 mm boards	pcs	-	14.0	-	14.0
8.1	Nail Plug / Ceiling Anchor @ 300 mm for mounting peripheral profiles to concrete or masonry wall	pcs	3.0	3.0	3.0	3.0
	Universal Screw FN 4.3 x 65 mm @ 600 mm in case of mounting peripheral profiles to metal studs of drywall partition	pcs	2.8	2.8	2.8	2.8
8.2	Nail Plug / Ceiling Anchor / Cavity Dowel for structural connection to concrete, masonry or other wall	pcs	2.5	2.5	2.5	2.5
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	м ²	1.0	1.0	1.0	1.0
13	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9	0.9	0.9

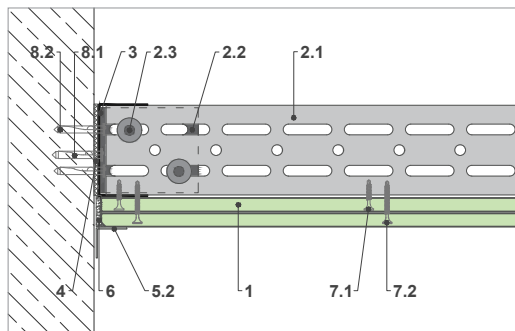
⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 30 m² (3 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 1.3 m²/m².

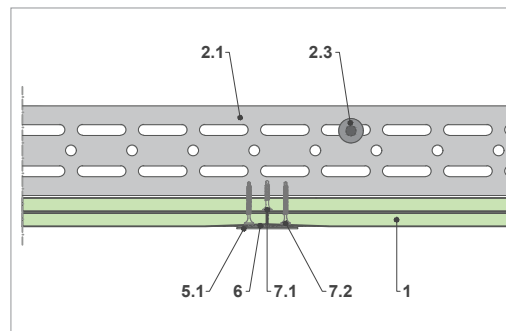
(3) Consumption rate of FUGA&FINISH is 0.35 kg/m² for jointing and 0.5 kg/m² for skim coating.

(4) Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

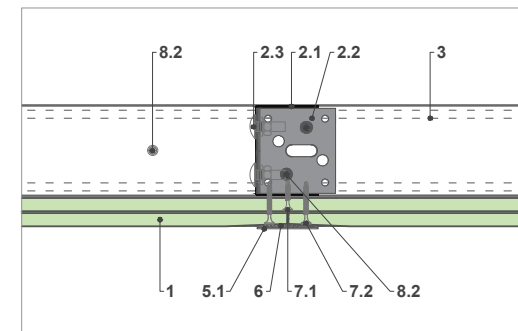
L01 Load-bearing connection to solid concrete wall



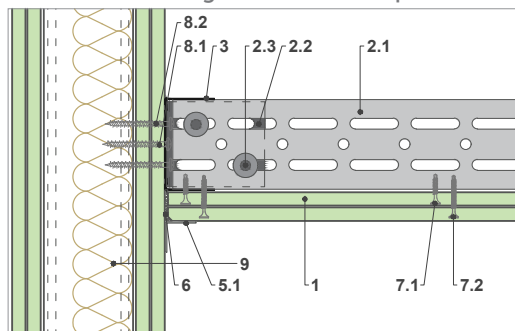
L03.1 Recessed Edge Joint



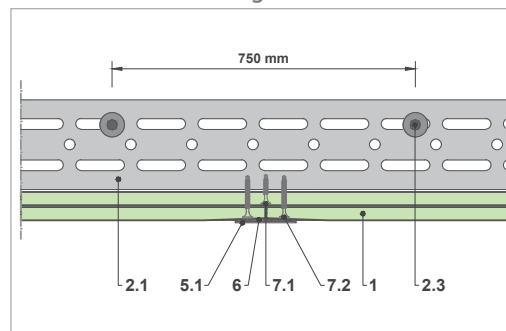
C03.1 Butt Joint - single furring channel



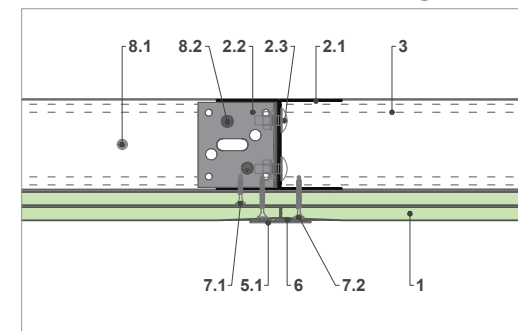
L02 Load-bearing connection to partition wall



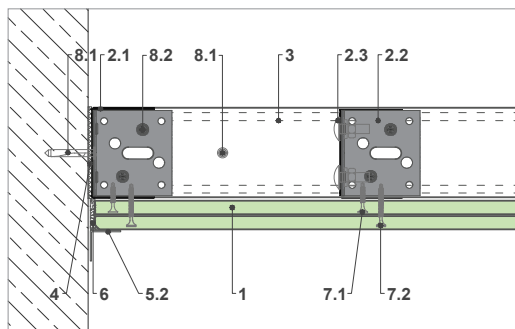
L04 Double furring channel connection



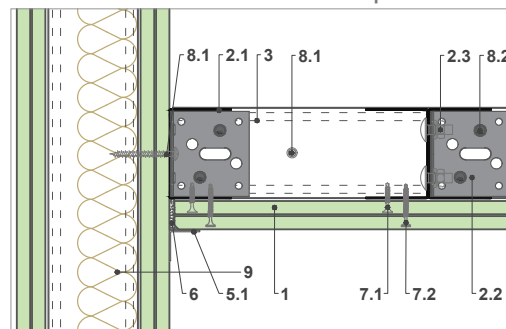
C03.2 Butt Joint - double furring channel



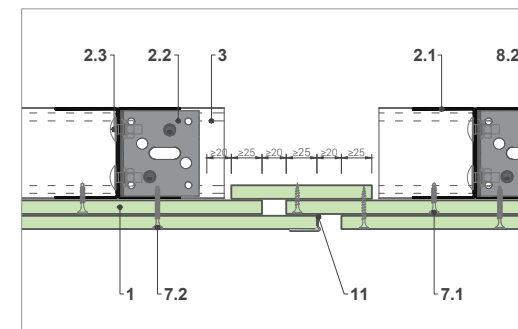
C01 Structural connection to solid concrete wall



C02 Structural connection to partition wall



C04 Dilatation Gap



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro

2.1 Premium Profile UA / 2.0 mm

2.2 Angle for UA Profile

2.3 Mounting Set for UA Profile

3. Premium Profile Z140 UW / 0.6 mm

4. Acoustic Tape

5.1 Joint Tape

5.2 Separation Strip TrennFix

6. Joint Filler FUGA

7.1 Self-drilling Screw TB 3.5 x 25 mm

7.2 Self-drilling Screw TB 3.5 x 35 / 45 mm

7.5 Self-drilling Screw TEX LB 4.2 x 13 mm

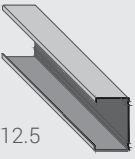
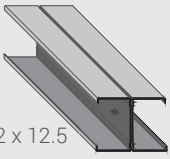
8.1 Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm OR Universal Screw FN 4.3 x 65

8.2 Cavity Dowel / Ceiling Anchor 6 x 40, 60 mm OR Universal Screw FN 4.3 x 65

9. Mineral Wool

11. Corner Tape ALUX

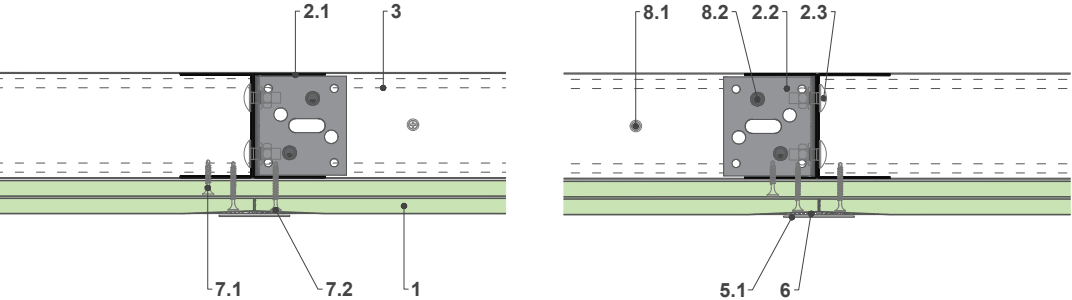
Permissible room width, without taking in consideration the load class of the ceiling, metal grid with CW or UA profiles

Permissible room width (m)				
Profile Type (with axial distance of 500 mm)	Single Profile		Double Profile	
	Cladding thickness, mm		Cladding thickness, mm	
	12.5	 2 x 12.5	12.5	 2 x 12.5
Premium Profile Z140 CW, Metal Gauge 0,6 mm				
CW 50	2.50	2.00	2.75	2.25
CW 75	3.00	2.50	3.50	3.00
CW 100	3.50	3.00	4.00	3.50
CW 125	4.00	3.50	4.50	4.00
CW 150	4.50	4.00	5.00	4.50
Premium Profile UA, Metal Gauge 2,0 mm				
UA 50	3.00	2.90	3.35	3.00
UA 75	3.70	3.50	4.15	3.60
UA 100	4.35	4.00	4.85	4.25
UA 125	4.95	4.50	5.45	4.80
UA 150	5.45	5.00	6.00	5.35

* Including additional loads (0,05 kN/m²) for insulation layers.
** Free-spanning profiles should not be joined or extended

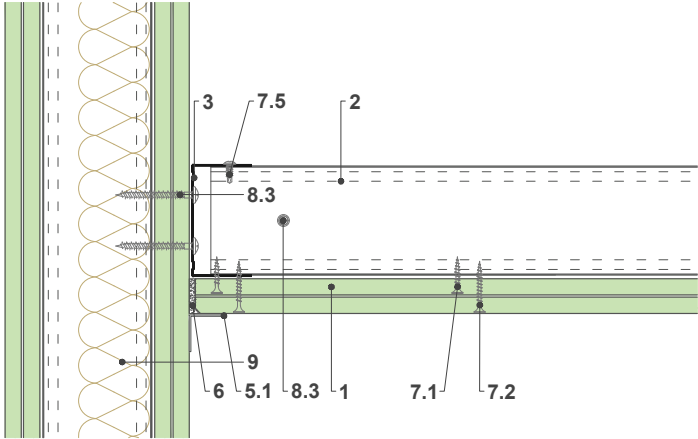
Load-bearing connection of Premium Profiles UA as Furring Channels

Single or double UA Profiles are connected to the UW perimeter runner with 1 Angle for UA Profile.
The heel installation is staggered at both ends.



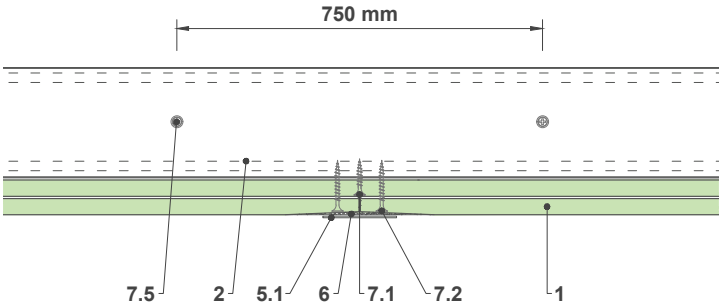
Load-bearing connection of Premium Profiles CW as furring channels

Single or double CW Profiles are connected to the UW perimeter runner with Self-drilling Screw TEX LB 4.2 x 13 mm



Double Furring Channel Connection with CW Profile

In case of double furring channel with Premium Profiles CW, the two profiles are connected with Self-drilling Screws TEX LB 4.2 x 13 mm at dist. ≤ 750 mm.



Design and building data for ceilings without fire resistance requirements in case of T and L Connections

Table 1

Cladding Weight, kg/m ²	
Standard Plasterboard Type A 12.5 mm	8.20
Moisture Resistant Plasterboard Type H2 12.5 mm	8.60
Fire Resistant Plasterboard Type DF 12.5 mm	10.20
Fire and Moisture Resistant Plasterboard Type DFH2 12.5 mm	10.50
Sound Comfort Extra Type DFIR 12.5 mm	12.00
Titan Board Type DFH1IR 12.5 mm	13.00
Blue Board Type GM-DFH1IR 12.5 mm	11.50
Standard Plasterboard Type A 15 mm	11.00
Moisture Resistant Plasterboard Type H2 15 mm	11.50
Fire Resistant Plasterboard Type DF 15 mm	12.00
Fire and Moisture Resistant Plasterboard Type DFH2 15 mm	12.50

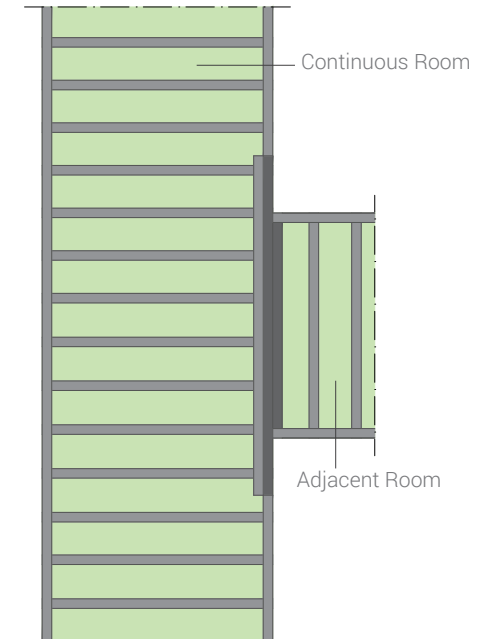
Table 2

Metal Grid Weight, kg/m ²	
Premium Profile Z140 CW 50	1.50
Premium Profile Z140 CW 75	1.75
Premium Profile Z140 CW 100	2.00
Premium Profile Z140 CW 125	2.25
Premium Profile Z140 CW 150	2.50
Premium Profile UA 50	3.80
Premium Profile UA 75	4.60
Premium Profile UA 100	5.40
Premium Profile UA 125	6.10
Premium Profile UA 150	7.00

Permissible Room Width According to the Ceiling Load Class

Ceiling Load Class = Value Table 1 + Value Table 2 + Weight of Insulation Material

Premium Profiles UA as Furring Cannel For Adjacent Rooms									
Continuous Room Ceiling		Adjacent Room Ceiling							
Ceiling Load Class kN/m²	Permissible Room Width, m	Permissible Room Width, m							
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
≤ 15 kN/m²	2.5	2x UA 50	2x UA 75	2x UA 75	2x UA 100	2x UA 100	2x UA 100	2x UA 125	2x UA 125
	3.5			2x UA 100		2x UA 125	2x UA 150		
	4.5	2x UA 75	2 xUA 100					2x UA 125	2x UA 150
	5.5			2x UA 125	2x UA 150	2x UA 150			
≤ 30 kN/m²	2.5	2x UA 75	2x UA 75	2x UA 100	2x UA 125	2x UA 125	2x UA 150	2 xUA 150	x
	3.5		2x UA 100	2x UA 100		2x UA 150	x	x	
	4.5	2x UA 100		2x UA 125	2x UA 150	x			x
	5.5								
≤ 50 kN/m²	2.5	2x UA 75	2x UA 100	2x UA 125	2x UA 150	2x UA 150	x	x	x
	3.5	2x UA 100	x			x			
	4.5	2x UA 125							
≤ 65 kN/m² multi-level ceilings	2.5	2x UA 100	2x UA 125	2x UA 125	2x UA 150	x	x	x	x
	3.5								

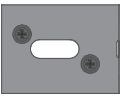
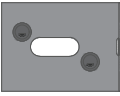


UW Perimeter runner anchoring in case of Premium Profiles CW as furring channels

Anchoring Substrate	Fasteners	Permissible Spacing
Drywall Partitions (Anchoring in the metal studs)	2 x Universal Screw FN 4.3 x 35 mm in case of cladding thickness up to 20 mm 2 x Universal Screw FN 4.3 x 65 mm	600 mm
Concrete OR Reinforced Concrete	Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	300 mm
Stable masonry walls without cavities or light concrete (Density $\geq 1000 \text{ kg/m}^3$)	Nail Plug 6 x 40, 60, 80 mm Fasteners and anchors suitable for the substrate ⁽¹⁾	
Others	Fasteners and anchors suitable for the substrate ⁽¹⁾	

⁽¹⁾ Minimum load-bearing capacity Shear: 0.35 kN and Withdrawal: 0.5 kN

Anchoring of Premium Profiles UA as furring channels

Anchoring Substrate	Fasteners	Angle for UA
Drywall Partitions (Anchoring in the metal studs)	2 x Universal Screw FN 4,3 x 65 mm	
Concrete OR Reinforced Concrete	2 x Ceiling Anchor 6 x 40 mm	
Others	Fasteners and anchors suitable for the substrate with minimum load-bearing capacity $\geq 0.5 \text{ kN}$ against shear and withdrawal	

Fasteners for the cladding

- In case of grid with metal gauge $< 0.7 \text{ mm}$ - Drywall Screw TN 3.5 x 25/35
- In case of grid with metal gauge $0.7 \div 2.0 \text{ mm}$ - Self-drilling Screw TB 3.5 x 25/35

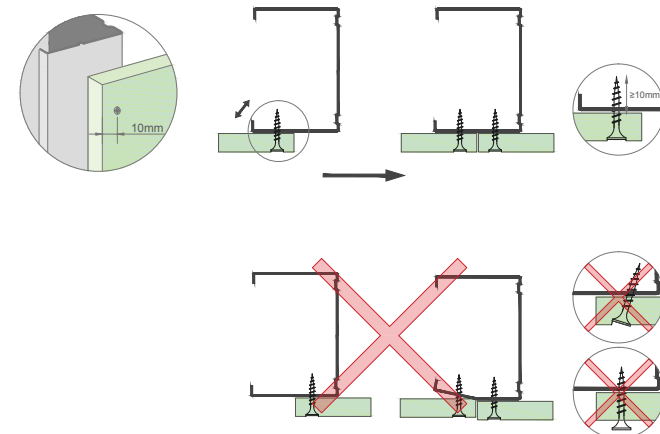
Fasteners Length

Board Thickness	1st Layer	2nd Layer
12.5 mm	3.5 x 25	3.5 x 35
15.0 mm	3.5 x 25	3.5 x 45

UW Perimeter runner anchoring in case of Premium Profiles UA as furring channels

Anchoring Substrate	Fasteners	Permissible Spacing
Drywall Partitions (Anchoring in the metal studs)	1 x Universal Screw FN 4.3 x 35 mm in case of cladding thickness up to 20 mm 1 x Universal Screw FN 4.3 x 65 mm	600 mm
Concrete OR Reinforced Concrete	Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm	
Stable masonry walls without cavities or light concrete (Density $\geq 1000 \text{ kg/m}^3$)	Nail Plug 6 x 40, 60, 80 mm Fasteners and anchors suitable for the substrate ⁽¹⁾	
Others	Fasteners and anchors suitable for the substrate ⁽¹⁾	

Cladding



The screw should be installed in a way that its head is right beneath the surface of the boards with approx. 1 mm.
Fastening the boards begins from the open part of the profile flange and continue in the direction of its base.

Fasteners spacing according to the cladding layers

Number of layers	1st Layer	2nd Layer
Single	200	x
Double	400	200

Anchoring peripheral runner to main structure:

Mark the desired position of the partition wall on the floor and walls using a laser level or a chalk line.

The back side of the peripheral UD 27 profiles, which are in direct contact with the surrounding structures need to be insulated with an acoustic foam tape for better sound insulation.

The width of the acoustic foam tape is based on the width of the profile used.

In accordance with the prepared marking, the peripheral profiles are fixed using suitable dowels at 50 mm from each end of the profile and at 500 mm along its length, but not less than 3 fasteners per profile.



C 1-1 / C 1-2



C 2-1 / C 2-2 / C 2-3 / C 2-4

Dilatation and Expansion Joints

Form Expansion gap detail L04 in the case of ceiling areas exceeding approx. 10 m in length.

Form the same detail where the suspended ceiling cross a movement joint in the main structure.

Suspension of flush metal grid - C1-1 / C1-2

Mark the position and fix the suspenders with Ceiling Ancor 6x40 / 60 or other suitable anchors to the main ceiling, according to the selected design scheme.

The ax of the furring channels must be leveled and then the profile is attached / fixed to the selected suspender.

The secondary cross-section CD profiles to be fixed to the main CD profiles by Cross-wise connector.

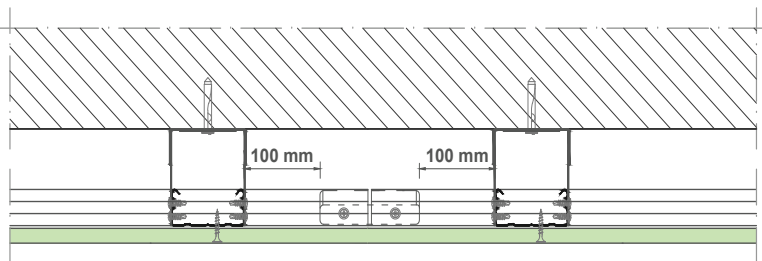
Suspension of double level metal grid - C2-1 / C2-2 / C2-3 / C2-3

Marking and fixing of the suspenders with Ceiling Ancor 6x40 / 60 or other suitable anchors to the main ceiling, according to the selected design scheme.

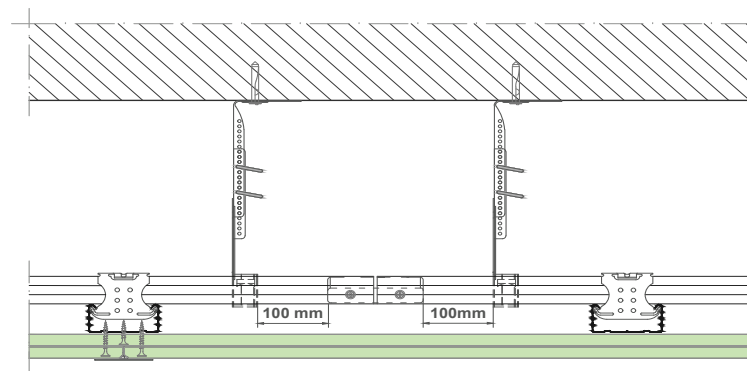
The ax of the carrying channels must be leveled and then the profile is attached / fixed to the selected suspender.

Furring channels are connected to the carrying ones at the intersection points with CD cross connector.

Extension of CD 60 profiles with CD longitudinal connector



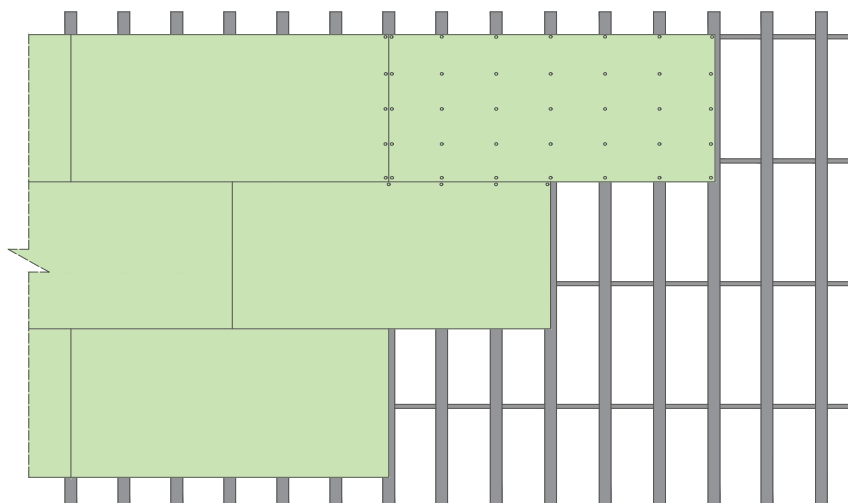
C 1-1 / C 1-2



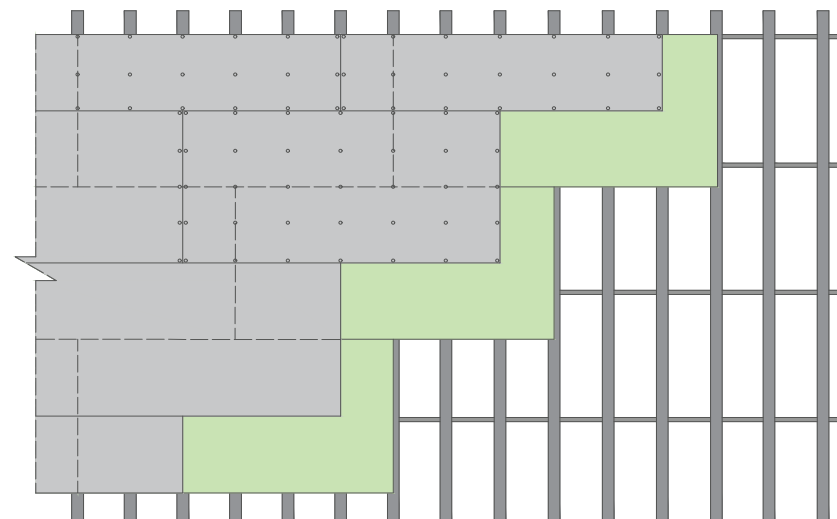
C 2-1 / C 2-2 / C 2-3 / C 2-4

CLADDING PATTERN

First / Third Layer



Second / Fourth Layer



Fasteners

Drywall screw TN 3.5 x 25/35/45/50 or 4.2/70 with sharp point for grid with thickness of the metal profiles < 0.7 mm.

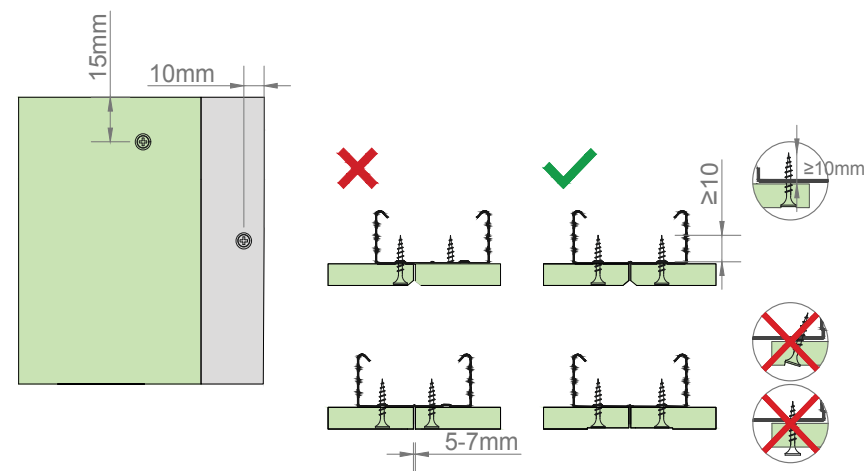
Self-drilling screw TB 3.5 x 25/35/45/50 with self-drilling point for grid with thickness of the metal profiles 0.7 ÷ 2.0 mm.

Length of fasteners

Boards thickness	1st Layer	2nd Layer	3rd Layer	4th Layer
12.5 mm	3.5 x 25	3.5 x 35	3.5 x 55	4.2 x 70
15.0 mm	3.5 x 25	3.5 x 45	3.5 x 55	4.2 x 70

Axial distance between fasteners

Number of layers	1st Layer	2nd Layer	3rd Layer	4th Layer
Single	200	x	x	x
Double	400	200	x	x
Triple	400	400	200	x
Quadruple	400	400	400	200



The screw should be installed in a way that its head is right beneath the surface of the boards with approx. 1 mm.

Fastening the boards begins from the open part of the CD flange and continue in the direction of its base.

Surface quality levels

According to Eurogypsum's classification – European federation of the gypsum product manufacturing industry.
Developed and established, the 4 levels of quality finish classification for plasterboard cladding aims to provide clear definitions thus helping to reduce subjective judging of the end result.

Level	Aesthetic Requirements	Finish Surface Suitability	Application	Suitable Product
Q1 (basic)	For surfaces without aesthetic requirements	Ceramic tiles, decorative relief plasters with a thickness of more than 2 mm, etc. Corridors and ceilings of service rooms.	Filling the joints and reinforcing with tape. Filling the screw heads. In multi-layer systems and without fire protection requirements, the transition layers do not have to be reinforced with tape.	FUGA FUGA hydro FUGA & FINISH Light
Q2 (standard)	Standard level of completion.	Laying wallpaper with a medium or rough structure. Matt disperse and other paints with filler, which are applied with an ordinary paint roller. Decorative thin-layer plasters or skim coats with a thickness of 1 mm.	Fully finished and dried level Q1. Skim-coating and widening of the joint area to achieve a smooth transition of the surface. Laying a second layer on the screw heads. Forming internal and external corners. If necessary, polish the areas with fine sandpaper.	FUGA FUGA hydro FUGA & FINISH Light
Q3 (high)	High level - some shading still possible.	Laying thin and fine wallpaper Matt disperse and other paints with filler, which are applied with an ordinary paint roller. Decorative thin-layer plasters or skim coats with a thickness of 1 mm.	Fully finished and dried level Q2. Fine complete skim-coating of the surface, including, if necessary, polishing with fine sandpaper. Rough areas and imperfections are not allowed, but are not excluded.	SATEN FUGA & FINISH Light
Q4 (premium)	Premium end - minimized appearance of marks and traces.	Surfaces with requirements for extremely high surface quality. Surfaces to be treated with glossy paints and coatings. Premises with spot or bright light.	Fully finished and dried level Q2. Fine complete skim-coating of the surface with a layer <3 mm. Mandatory thorough inspection of the entire surface with directional LED light and polishing with fine sandpaper. Rough sections and imperfections are not allowed.	SATEN FUGA & FINISH Light

Additional Information

Untreated joints and surfaces are suitable for temporary construction or when the finish coat has not been determined.

Quality level Q2 does not ensure that marks and spots under the finishing layer will not be visible, particularly under bright or shallow light. These effects can be reduced by continuing with the next level Q3, which includes

a thorough coating of the entire plasterboard surface.

If the finishing level of the surface is not specified, then by default quality level Q2 is accepted as sufficient.

It is important to note that quality level Q3 allows partly transparent areas in the jointing between the plasterboards especially under the effect of bright shallow light or in case of glossy finishing. If higher demands are made on quality of the finished surface we recommend the next quality level Q4.

Joint Treatment

Application Conditions

The premise and substrate temperature must not be lower than 8 ° C and must be kept constant for at least 2 days before the joints are treated. Sudden temperature changes when ventilating the premises must be prevented. The flatness and quality of the installation of the boards must also be checked. In the presence of poorly screwed screws, they must be tightened to ensure the flatness of the plasterboard surface. Correct screws to be used with screw head just below the board surface.

Level Q1

First coat of Technogips Pro joint filler should be applied with joint knife of sufficient width beyond both sides of the center of the joint. Technogips Pro joint tape should be embedded into the joint filler to reinforce the joint between two boards.

Applying a second thin coat of the joint filler to level the joint with a width of approx. 80 mm

The visible screw heads should be also filled in.

In multi-layer systems and no fire protection requirements, the lower layers do not have to be reinforced with tape. In the case of fire protection systems, the reinforcement of the joints of all layers with joint tape is mandatory.

Level Q2

To be able to continue with level Q2 – aligning the joint area with continuous transition to the board surface, the absolutely necessary requirement is the first layer, level Q1 to be completely dried (this could take up to 24 hours). A thin leveling coat is applied on the joint with a width of approx. 300 mm for tapered (TE) edging and approx. 400 mm for square (SE) edging. This is sufficient to ensure a continuous gradual transition from the joint to the wallboard surface. The screw heads to be covered with second coat of the compound.

The inner and outer corners should be formed. The outer corners must be formed with an Aluminum angle bead, which must be fixed and leveled with small part of the compound. For a stronger connection and maximum protection against cracks, additional reinforcement with fiberglass tape is recommended at the transition between the corner and the plasterboard. The inner corners to be reinforced with paper tape and compound.

Level Q3

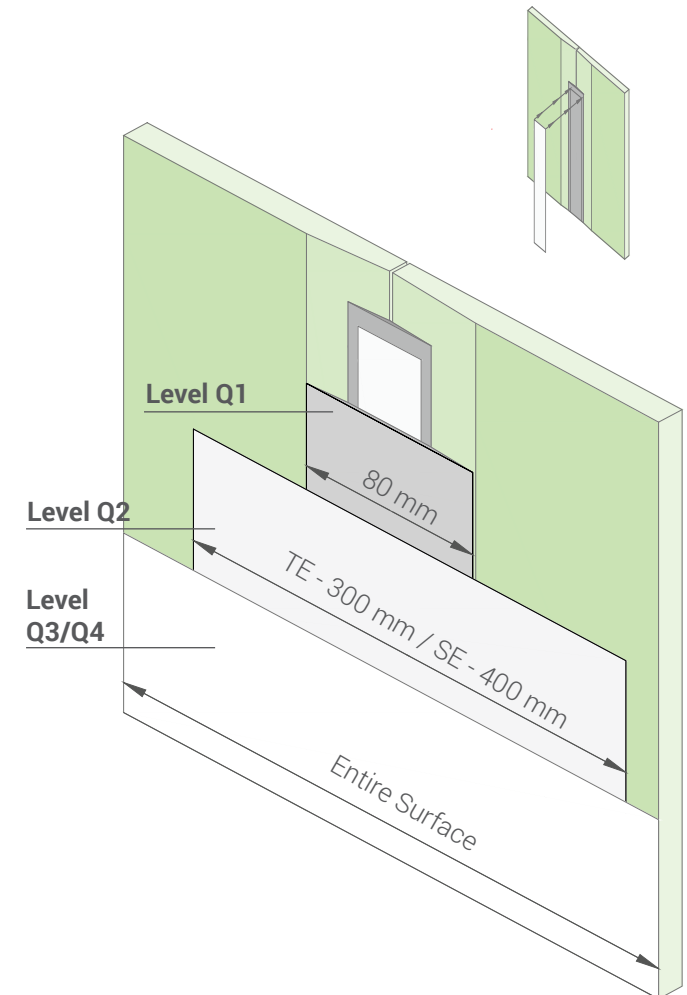
To be able to continue with level Q3 – complete skim coating of the surface, the absolutely necessary requirement is the previous stage, level Q2 to be completely dried (this could take up to 8 hours). With rectilinear moves, holding the drywall trowel under 30°, with rectilinear moves spread a thin layer of the compound. Typically, one or two moves are sufficient to even up all physical ridges and grooves, adding more of the mixture if necessary.

If needed, the surface could be smoothed with fine sandpaper after complete drying of the skim coat.

Level Q4

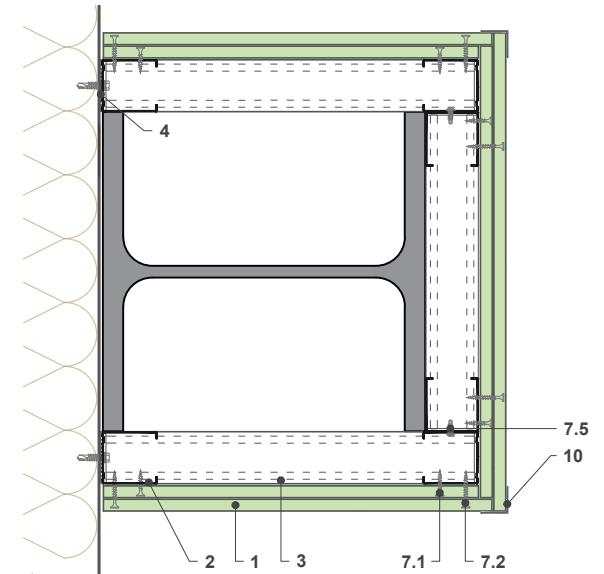
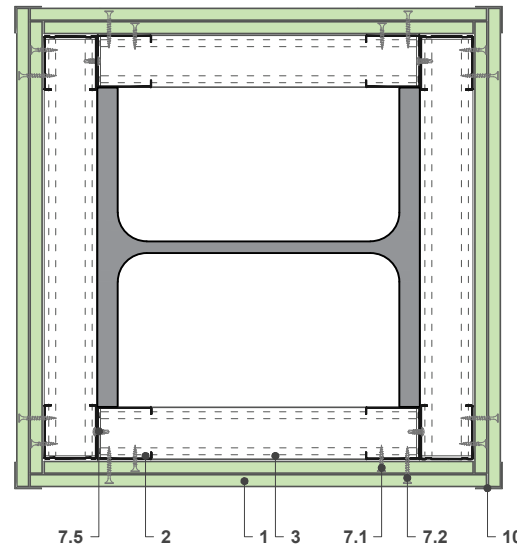
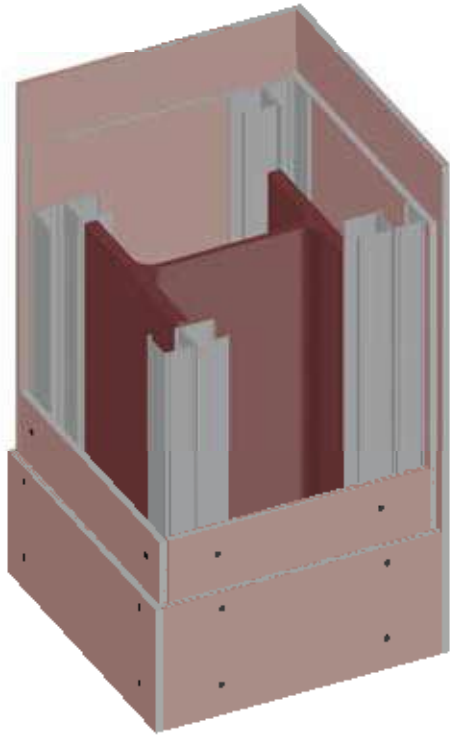
It is mandatory that the previous layer - level Q2 (Q3) is finished and dry (takes no more than 24 hours). A thin layer (no more than 3 mm) of the compound to be applied over the entire surface of the wall. Then smooth the surface using a skimming spatula.

After the wall is completely dry, all imperfections must be smoothed with fine sandpaper. Using LED floodlight will help you spot them easily.



FIRE ENCASEMENT FOR COLUMNS

Technogips Pro FC1-2



 30 45 60 90 120 180

 Self-weight
up to **29 kg/m²**

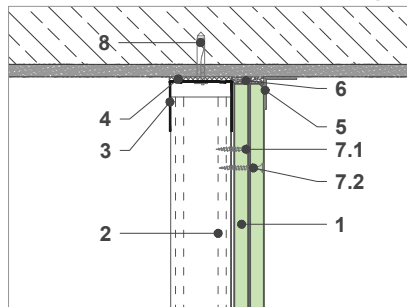
 Thickness
75 | 80 | 100 | 130 mm

 Permissible Height
up to **4.00 m**

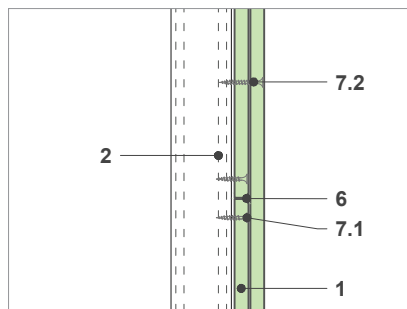
Material Consumption ⁽¹⁾ per 1 m ^l			Systems	
			HEB200 3 sides	HEB200 4 sides
1	Gypsum Board Technogips Pro	m²	1.5	2.1
2	Premium Profile CW 50 / 0.6 mm	m'	6.0	8.0
3	Premium Profile UW 50 / 0.6 mm	m'	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4
5	Joint Tape @ all inner joints	m'	8.0	10.0
6	Joint Filler FUGA / FUGA&FINISH @ all layers	kg	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	12.0	16.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15.0 mm boards	pcs	24.0	32.0
7.5	Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	4.0	8.0
8	Nail Plug / Ceiling Anchor @ 500 mm for anchoring UW perimeter runner	pcs	1.9	1.9
9	Mineral Glass Wool FABRIC PRO	m²	0.8	1.1
11	Skim Coat SATEN / FUGA&FINISH	kg	0.85 / 0.5	0.85 / 0.5

⁽¹⁾ Consumption rates are based on sections HEB200 with height 3 m without accounting for the waste, scrapes and losses

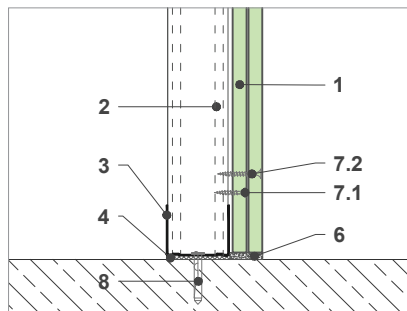
V01 Connection to concrete ceiling



V02 Horizontal Joint

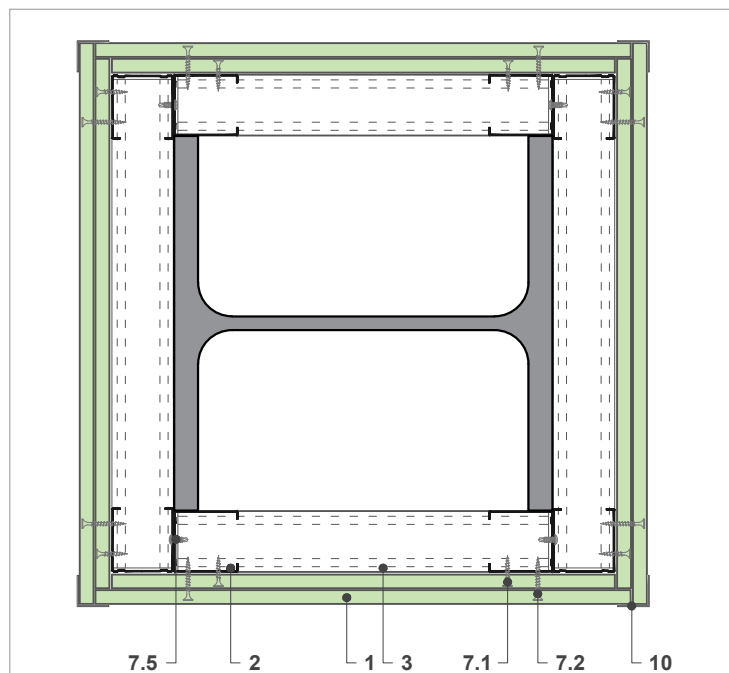


V03 Connection to concrete floor

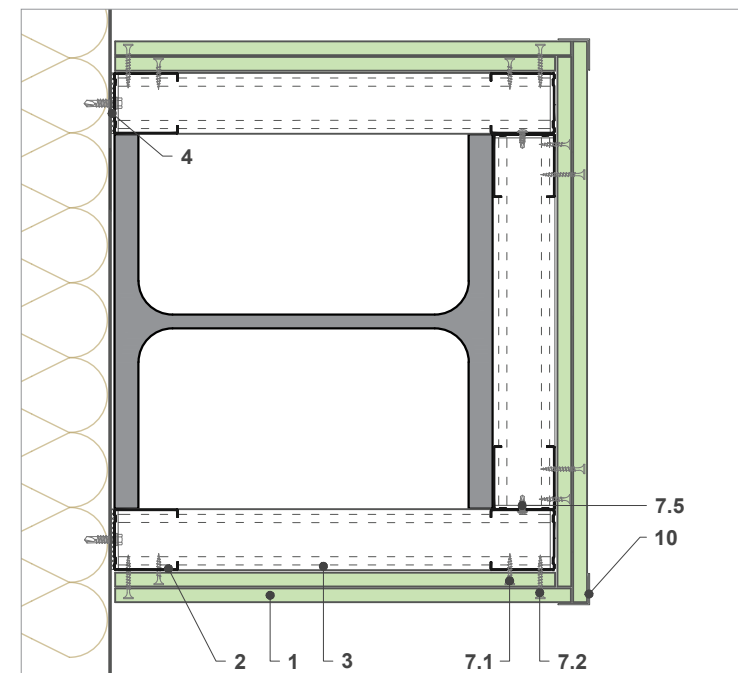


Board Type	Thickness minimum mm	Wall Weight without insulation kg/m ²	Wall Thickness mm	Profile Cavity mm	Fire Resistance Class (without insulation)					
					EI 0	EI 30	EI 45	EI 60	EI 90	EI 120
					Profile Spacing, mm					
					600	600	600	600	600	600
Maximum permissible heights depending on the cladding type, m										
Blue Board GM DFH1IR 12.5	2x12.5	28	75	CW50	4.00	3.35	3.35	3.35		
Technogips Pro Type DF 15	2x15	29	80		4.00	3.35	3.35	3.35		
Technogips Pro Titan Board DFH1IR 15	2x15	29	80		4.00	3.35	3.35	3.35		
Fire Shield GM DFIR 15	2x15	29	80		4.00	3.35	3.35	3.35		
Blue Board GM DFH1IR 12.5	2x12.5	28	100	CW75	4.00	4.00	4.00	4.00		
Technogips Pro Type DF 15	2x15	29	130		4.00	4.00	4.00	4.00		
Technogips Pro Titan Board DFH1IR 15	2x15	29	130		4.00	4.00	4.00	4.00		
Fire Shield GM DFIR 15	2x15	29	130		4.00	4.00	4.00	4.00		

H01 4-Sided Protection



H02 3-Sided Protection



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro 12.5 mm / 15 mm
2. Premium Profile CW
3. Premium Profile UW

4. Acoustic Tape
5. Joint Tape
6. Joint Filler FUGA

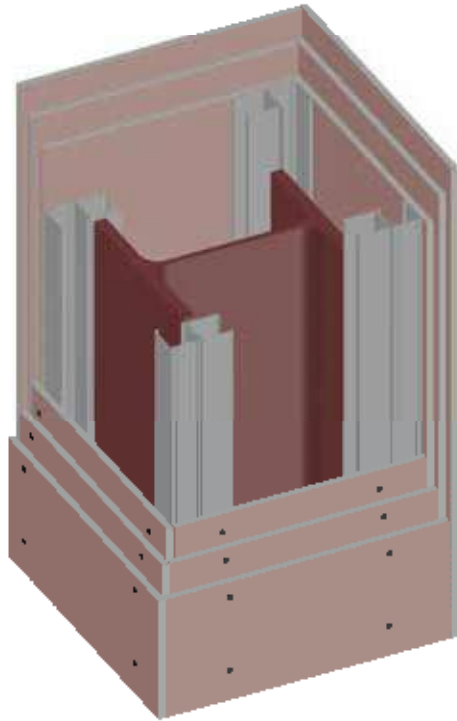
- 7.1 Drywall Screw 3.5 x 25 mm
- 7.2 Drywall Screw 3.5 x 35 / 45 mm
- 7.3 Drywall Screw 3.5 x 55 mm

- 7.4 Drywall Screw 4.2 x 75 mm
- 7.5 Self-drilling Screw TEX LB 4.2 x 13 mm
8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm

9. Mineral Wool
10. Corner Tape

FIRE ENCASEMENT FOR COLUMNS

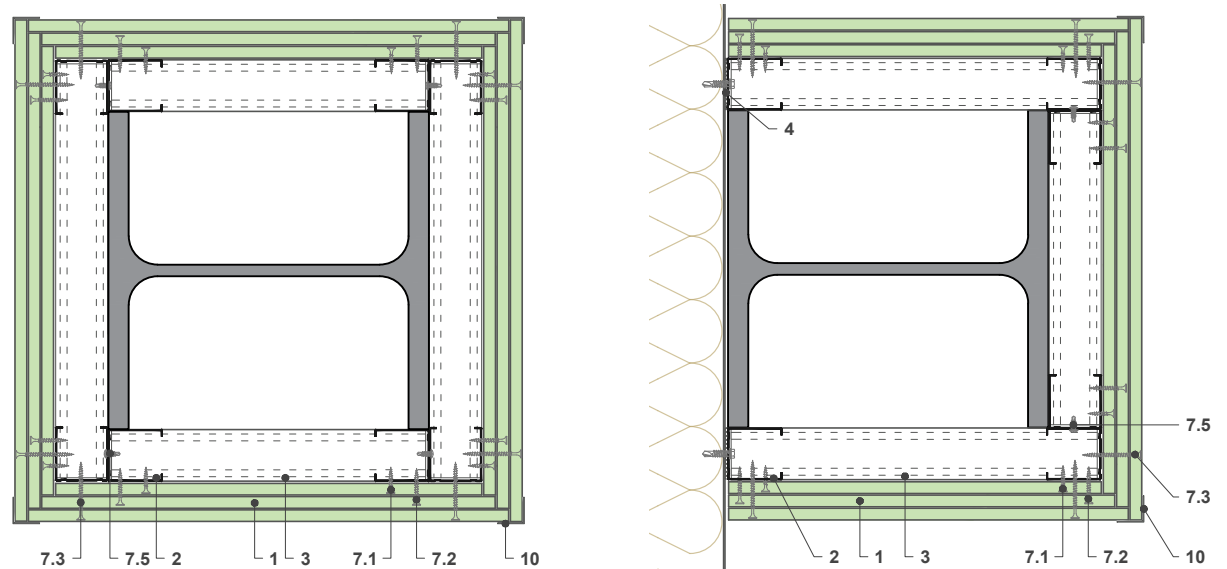
Technogips Pro FC1-3



 Self-weight
up to **42 kg/m²**

 Thickness
90 | 120 mm

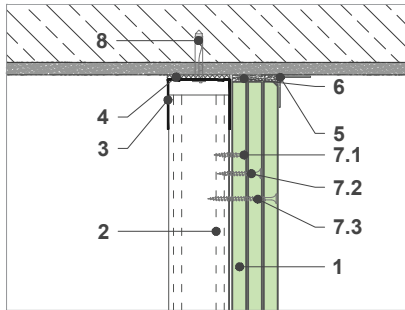
 Permissible Height
up to **4.00 m**



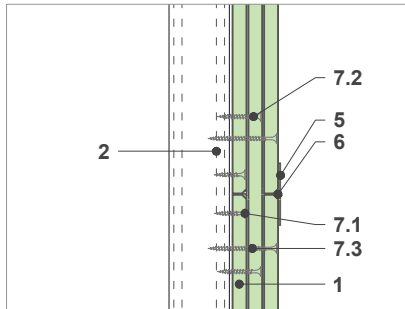
Material Consumption ⁽¹⁾ per 1 m ^l			Systems	
			HEB200 3 sides	HEB200 4 sides
1	Gypsum Board Technogips Pro	m²	2.2	3.1
2	Premium Profile CW 50 / 0.6 mm	m'	6.0	8.0
3	Premium Profile UW 50 / 0.6 mm	m'	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4
5	Joint Tape @ all inner joints	m'	12.0	15.0
6	Joint Filler FUGA / FUGA&FINISH @ all layers	kg	0.9	0.9
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	12.0	16.0
7.2	Drywall Screw 3.5 x 35 mm @ 500 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 500 mm @ 15.0 mm boards	pcs	12.0	16.0
7.3	Drywall Screw 3.5 x 55 mm @ 250 mm @ 12.5 mm boards Drywall Screw 4.2 x 70 mm @ 250 mm @ 15.0 mm boards	pcs	24.0	32.0
7.5	Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	4.0	8.0
8	Nail Plug / Ceiling Anchor @ 500 mm for anchoring UW perimeter runner	pcs	1.9	1.9
9	Mineral Glass Wool FABRIC PRO	m²	0.8	1.1
11	Skim Coat SATEN / FUGA&FINISH	kg	0.85 / 0.5	0.85 / 0.5

⁽¹⁾ Consumption rates are based on sections HEB200 with height 3 m without accounting for the waste, scrapes and losses

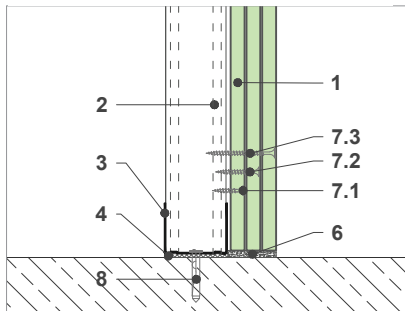
V01 Connection to concrete ceiling



V02 Horizontal Joint

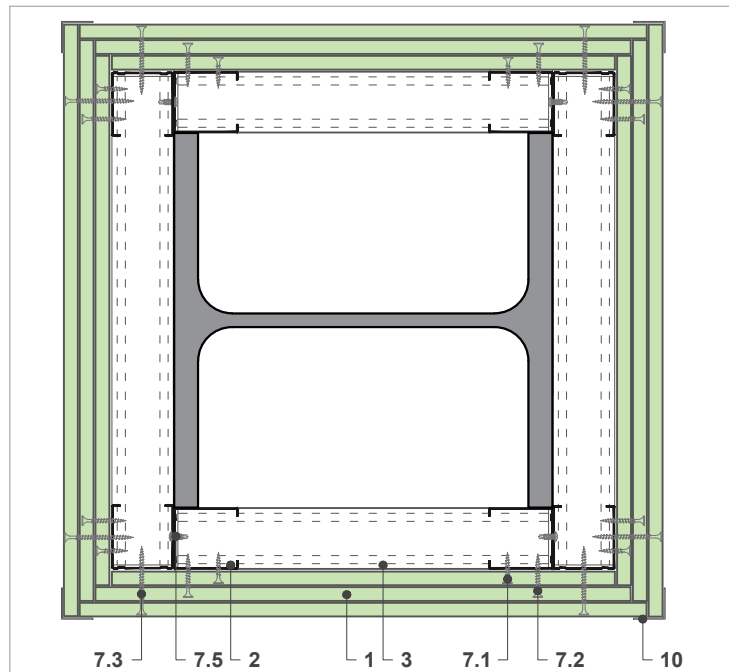


V03 Connection to concrete floor

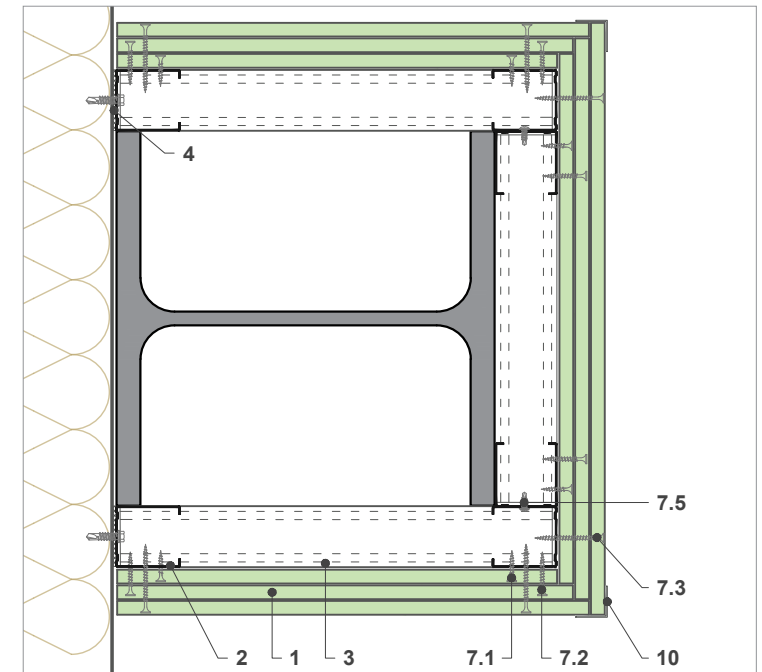


Board Type	Thickness minimum mm	Wall Weight without insulation kg/m ²	Wall Thickness mm	Profile Cavity mm	Fire Resistance Class (without insulation)					
					EI 0	EI 30	EI 45	EI 60	EI 90	EI 120
					Profile Spacing, mm					
					600	600	600	600	600	600
Maximum permissible heights depending on the cladding type, m										
Technogips Pro Type DF 15	3x15	42	95	CW50	4.00	3.60	3.60	3.60	3.60	
Technogips Pro Titan Board DFH11R 15	3x15	42	95		4.00	3.60	3.60	3.60	3.60	
Fire Shield GM DFIR 15	3x15	42	95		4.00	3.60	3.60	3.60	3.60	
Technogips Pro Type DF 15	3x15	42	120	CW75	4.00	4.00	4.00	4.00	4.00	
Technogips Pro Titan Board DFH11R 15	3x15	42	120		4.00	4.00	4.00	4.00	4.00	
Fire Shield GM DFIR 15	3x15	42	120		4.00	4.00	4.00	4.00	4.00	

H01 4-Sided Protection



H02 3-Sided Protection



CERTIFIED SYSTEM COMPONENTS Technogips Pro

- Gypsum Board Technogips Pro 12.5 mm / 15 mm
- Premium Profile CW
- Premium Profile UW

- Acoustic Tape
- Joint Tape
- Joint Filler FUGA

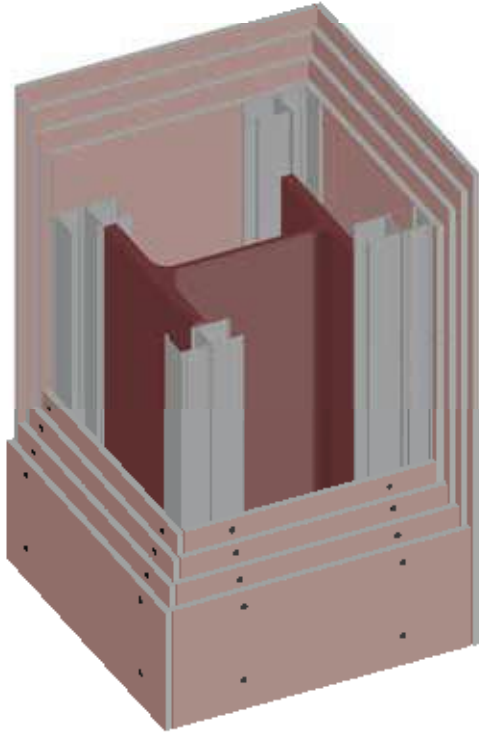
- Drywall Screw 3.5 x 25 mm
- Drywall Screw 3.5 x 35 / 45 mm
- Drywall Screw 3.5 x 55 mm

- Drywall Screw 4.2 x 75 mm
- Self-drilling Screw TEX LB 4.2 x 13 mm
- Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm

- Mineral Wool
- Corner Tape

FIRE ENCASEMENT FOR COLUMNS

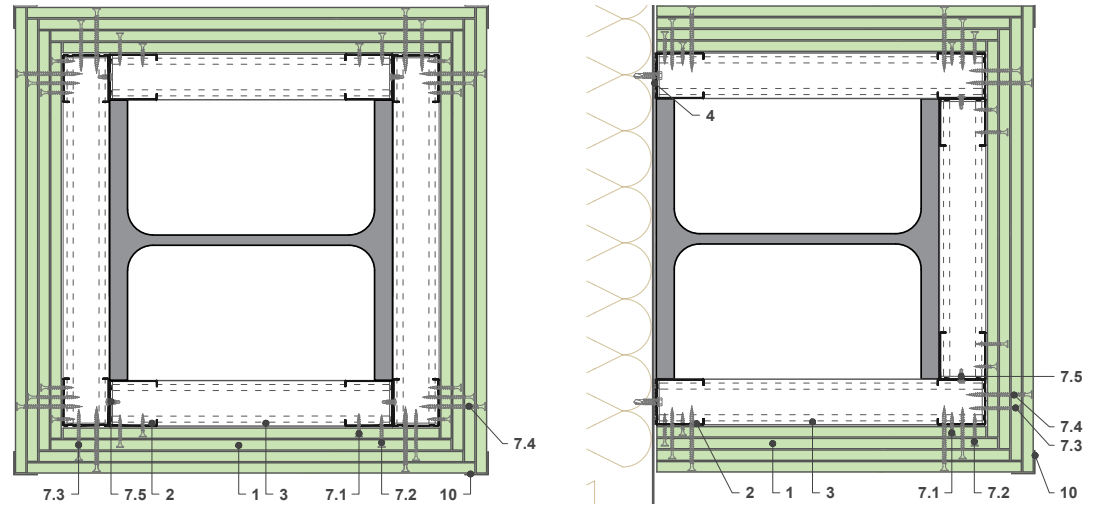
Technogips Pro FC1-4



 Self-weight
up to **56 kg/m²**

 Thickness
110 | 135 mm

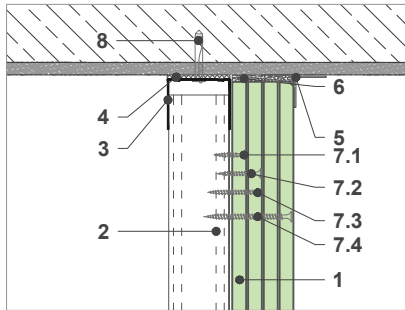
 Permissible Height
up to **4.00 m**



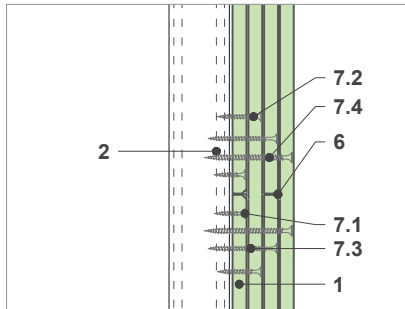
Material Consumption ⁽¹⁾ per 1 m ^l			Systems	
			HEB200 3 sides	HEB200 4 sides
1	Gypsum Board Technogips Pro	m²	2.9	4.1
2	Premium Profile CW 50 / 0.6 mm	m'	6.0	8.0
3	Premium Profile UW 50 / 0.6 mm	m'	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4
5	Joint Tape @ all inner joints	m'	16.0	20.0
6	Joint Filler FUGA / FUGA&FINISH @ all layers	kg	1.2	1.2
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	12.0	16.0
7.2	Drywall Screw 3.5 x 35 mm @ 500 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 500 mm @ 15.0 mm boards	pcs	12.0	16.0
7.3	Drywall Screw 3.5 x 55 mm @ 500 mm @ 12.5 mm boards Drywall Screw 4.2 x 70 mm @ 500 mm @ 15.0 mm boards	pcs	12.0	16.0
7.4	Drywall Screw 4.2 x 70 mm @ 250 mm	pcs	24.0	32.0
7.5	Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	4.0	8.0
8	Nail Plug / Ceiling Anchor @ 500 mm for anchoring UW perimeter runner	pcs	1.9	1.9
9	Mineral Glass Wool FABRIC PRO	m²	0.8	1.1
11	Skim Coat SATEN / FUGA&FINISH	kg	0.85 / 0.5	0.85 / 0.5

⁽¹⁾ Consumption rates are based on sections HEB200 with height 3 m without accounting for the waste, scrapes and losses

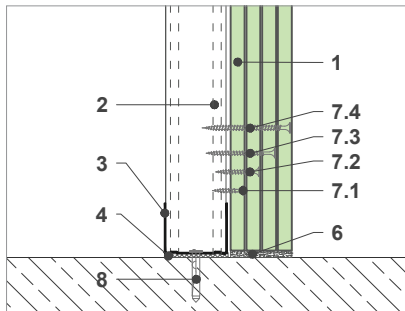
V01 Connection to concrete ceiling



V02 Horizontal Joint

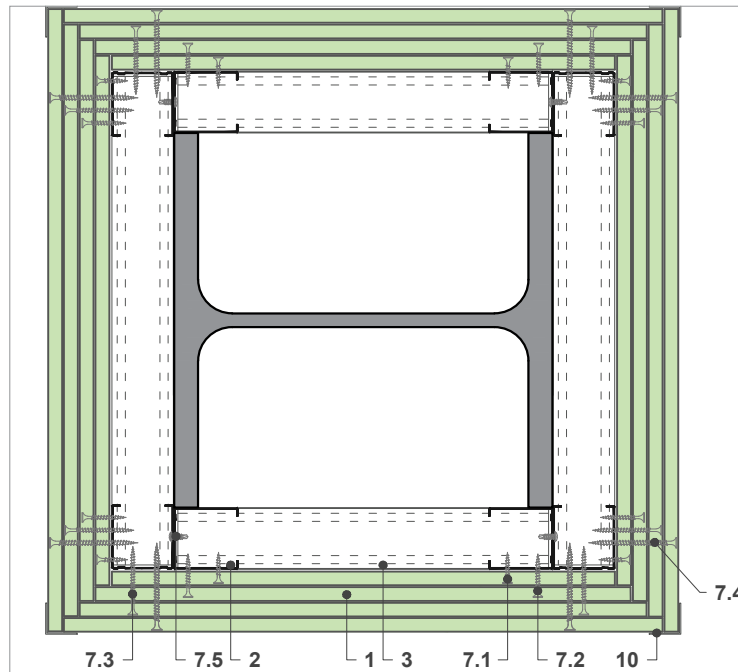


V03 Connection to concrete floor

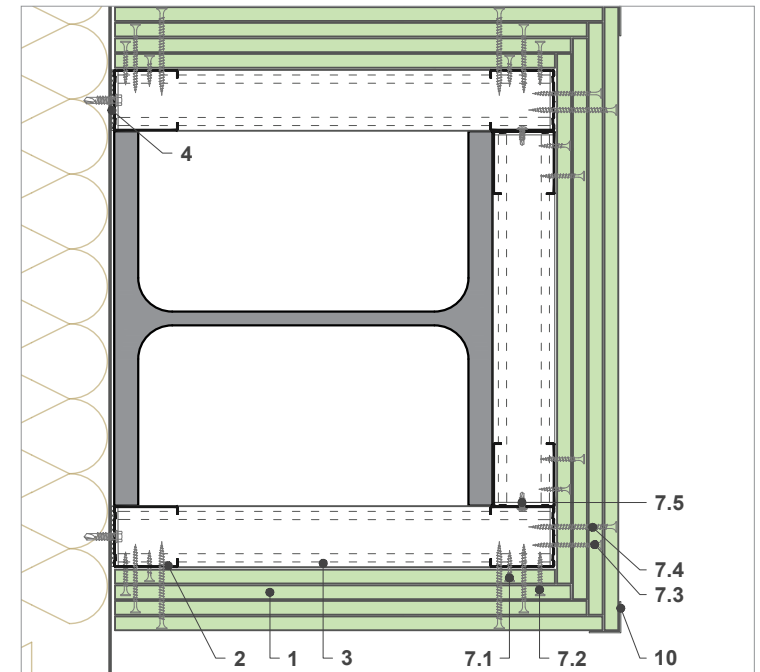


Board Type	Thickness minimum mm	Wall Weight without insulation kg/m ²	Wall Thickness mm	Profile Cavity mm	Fire Resistance Class (without insulation)					
					EI 0	EI 30	EI 45	EI 60	EI 90	EI 120
					Profile Spacing, mm					
					600	600	600	600	600	600
Maximum permissible heights depending on the cladding type, m										
Technogips Pro Type DF 15	4x15	56	110	CW50	4.00	4.00	4.00	4.00	4.00	4.00
Technogips Pro Titan Board DFH11R 15	4x15	56	110		4.00	4.00	4.00	4.00	4.00	4.00
Fire Shield GM DFIR 15	4x15	56	110		4.00	4.00	4.00	4.00	4.00	4.00
Technogips Pro Type DF 15	4x15	56	135	CW75	4.00	4.00	4.00	4.00	4.00	4.00
Technogips Pro Titan Board DFH11R 15	4x15	56	135		4.00	4.00	4.00	4.00	4.00	4.00
Fire Shield GM DFIR 15	4x15	56	135		4.00	4.00	4.00	4.00	4.00	4.00

H01 4-Sided Protection



H02 3-Sided Protection



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Gypsum Board Technogips Pro 12.5 mm / 15 mm
2. Premium Profile CW
3. Premium Profile UW

4. Acoustic Tape
5. Joint Tape
6. Joint Filler FUGA

- 7.1 Drywall Screw 3.5 x 25 mm
- 7.2 Drywall Screw 3.5 x 35 / 45 mm
- 7.3 Drywall Screw 3.5 x 55 mm

- 7.4 Drywall Screw 4.2 x 75 mm
- 7.5 Self-drilling Screw TEX LB 4.2 x 13 mm
8. Nail Plug / Ceiling Anchor 6 x 40, 60, 80 mm

9. Mineral Wool
10. Corner Tape

Technogips Pro APEX® Systems

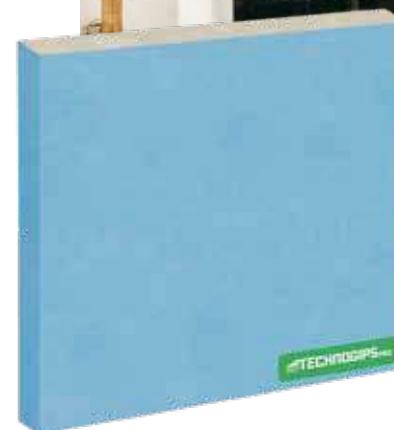
Exterior Systems with Blue Board

APEX® is advance technology for exterior systems developed and produced by Technogips Pro with high-performance inovative gypsum board Blue Board Type GM-DFH1IR. Technogips Pro APEX® Systems includes the following solutions:

- Exterior walls with direct render finish or ETICS
- Exterior walls for ventilated or non-ventilated facade layer
- Exterior drywall ceilings, eaves and soffits
- Interior drywall ceilings, partitions and shafts in premisses with high levels of humidity and condensation

Blue Board GM-DFH1IR

High performance exterior board consisting of special gypsum core and glass fiber mat. Easy and simple installation process - no special tools required besides the standard ones used in drywall construction.



Technical Data

Classification acc. to EN15283 + A1	GM-DFH1IR
Class of Reaction to Fire	A1
Weight	11.5 kg/m²
Total Water Absorption	< 5 %
Mould Resistance	10 (refers to 0% mould)
UV Resistance	12 months
Flexual breaking load, longitudinal	> 725 N
Flexual breaking load, transversal	> 300 N
Thermal Conductivity, λ	0.23 W/(m.K)
Water Vapour Diffusion Factor, μ	10
Thickness	12.5 mm
Width	1200 mm
Lenght	2000, 2400 mm
Edge Type	Square Edge (SK)
Color, face and back	Blue

Classification and Certificates



Type GM DFH1IR

EN 15283-1:2008



EPD Verified



Class A1
non-combustible



High density for
excellent sound insulation



Impact and scratch
resistance



Resistance to aggressive
environments, condensation
and mould



Exceptional strenght
and robustness



Suitable for both
exterior and interior



Resistance to rain, snow and
harsh weather conditions



Allows
water vapour
permeability



UV Resistance

WEATHER RESISTANCE:

Blue Board consists of special reinforced gypsum core, enhanced with hydrophobic additives, wrapped in glass fiber mesh, thus providing complete and secure sheathing in all weather conditions. Even though Blue Board is not intended as final exterior surface, when joints are filled as perscribed, the Blue Board sheathing becomes resistant to softening, shrinkage, UV rays, rain, snow etc. for at least 12 months after installation.

MOULD AND MILDEW RESISTANCE:

The specially designed cellulose-free glass fiber mat along with the antimicrobial additives in the gypsum core effectively protect Blue Board from becoming a substrate for mould and mildew growth.

WATER RESISTANT:

With its fully water resistant glass fiber mat and highest class of water absorption - H1, reaching a total water absorption value below 3%, Blue Board completely blocks out water, becoming one of the best performing sheathing products for exterior walls as well as for premium interior drywall systems in premisses with high levels of humidity and condensation.

BREATHABLE:

Blue Board allows water vapour permeability, thus protecting the rest of the materials within the system from rothing, corrosion, moisture etc., prolonging their exploitation span and keeping them at their best performance.

CLASS A1 - NON COMBUSTIBLE:

Due to its non-combustible glass fiber mesh and gypsum core, Blue Board classify as A1, non-combustible building product acc. to EN 13501-1, suitable for facades with increased fire safety requirements and fire stopping strips.

REDUCED THERMAL EXPANSION AND SHRINKAGE:

Blue Board's minimal shrinkage and expansion due to temperature changes, allows for covering larger area with less dilatation joints.

STRONG, STABLE AND UNIFORM SUBSTRATE:

The excellent strength of Blue Boards provides stable substrate and load-bearing capacity of 30 kg/m² of the ceramic coating and the adhesive composition.

PERFECT SUBSTRATE FOR ETICS:

Blue Board creates smooth, even and stable substrate for ETICS with its dimensional stability, insignificant swelling, shrinkage and contraction due to thermal and relative humidity level changes and its improved adhesion with adhesive composition.

EXCELLENT SOUND INSULATION:

Technogips Pro APEX® Systems with Blue Board are designed to provide not simply the required air-borne sound insulation levels but also to exceed it with the intend to facilitate building healthy, comfortable and safe environment.

DESIGNED AND MANUFACTURED WITH CARE FOR THE NATURE:

Manufactured with FGD gypsum and compeletely recycable materials, Blue Board meets the highest requirements for design and construction of green and sustainable buildings according to world renowned certification programmes EPD, LEED, BREEAM и DGNB. Technogips Pro APEX® Systems with Blue Board are designed to lower the carbon foot print of the buildings whilst improving their energy efficiency.



EASY, SIMPLE AND FAST INSTALLATION:

Installation of Technogips Pro APEX® Systems with Blue Board is according to the drywall construction methods. That means: easy and fast work process, decreased water consumption, short installation periods, without necessity for heavy-duty equipment on site. Blue Board is cut with standard utility knife and fastened with corrosion resistant screws, the boards are easy to bend and can fit even the most complex façade design.

LIGHTWEIGHT EXTERIOR SYSTEM:

Lightweight façade systems with Blue Board decrease the dead load with approx. 15%, providing solution for building more cost-efficient structures, but also proves excellent for high rise buildings.

SPACE SAVING SOLUTIONS:

Technogips Pro APEX® Systems provide the required thermal resistance values in several different variations, due to the different widths of studs available and the high-performance insulation. Allowing for thinner walls with higher performance, saving up to 10% usable living area.

IMPROVED ENERGY EFFICIENCY:

Lightweight façade systems with Blue Board allow for fast and easy renovation of existing buildings, providing long-lasting high levels of thermal insulation and energy efficiency, with minimal and short-term disruption.

SUSTAINABLE, GREEN CONSTRUCTION WITH BLUE BOARD:

Due to the nature of the drywall construction, Technogips Pro APEX® Systems with Blue Board possess some undisputable advantages:

- time - savers: due to the reduced water input and short installation terms
- the short installation periods reduce the time and expense for the heavy and lifting equipment and scaffolding on the building site
- highly technological and high productivity
- lower energy consumption during construction and exploitation with approx. 50%, leading to reduced carbon footprint of the building in total
- lower logistic and transportation expenses due to the lightweight highly technological construction materials

- 30% lower levels of carbon dioxide caused by the manufacturing process due to the 100% FGD gypsum used, Blue Board saved valuable resources and can be recycled countlessly.

PRACTICAL, PROBLEM-FREE SERVICE:

Premium Exterior Systems with Blue Board provide easy, problem-free electrical, plumbing, ventilation etc. installation, as well as problem-free access and service through out the exploitation life of the building.

SAFE AND COMFORTABLE LIVING ENVIRONMENT:

Highest levels of thermal insulation, air-borne sound insulation, air-quality, and exceptional fire safety - parameters of the APEX® Systems with Blue Board, providing comfort, as well as safety.

SEISMIC RESISTANCE:

Premium Exterior Systems with Blue Board contribute to the seismic safety of buildings by means of ductile and flexible products, and decreased static loads on the main structure.

WEATHER AND WIND RESISTANCE:

Wind loads on facades are usually the most significant and serious ones, therefore the Technogips Pro APEX® Systems are designed according to EC3 and the relative German Standards in regard to the permissible building heights. During the design stage, appropriate profiles and spacing are selected according to the wind loads on each floor and side of the building to provide safety of the structure.

WARRANTY:

By using exclusively original and certified products by Technogips Pro, specially designed and manufactured in accordance with the highest quality standards, you will achieve easy, fast and problem-free installation. Long exploitation periods of the systems and excellent performance.



RELIABILITY AND DURABILITY OF THE STRUCTURES

Depending on the environmental conditions and risk factors such as high levels of humidity in premises, aquatic facilities, chemical pollutants, structures in coastal or industrial areas, etc., it is recommended to use special profiles, accessories and fasteners with improved resistance to corrosion and additional protective coating.

Choosing suitable products and materials with high level of protection against corrosion is crucial in order to secure long service life, durability and reliability.

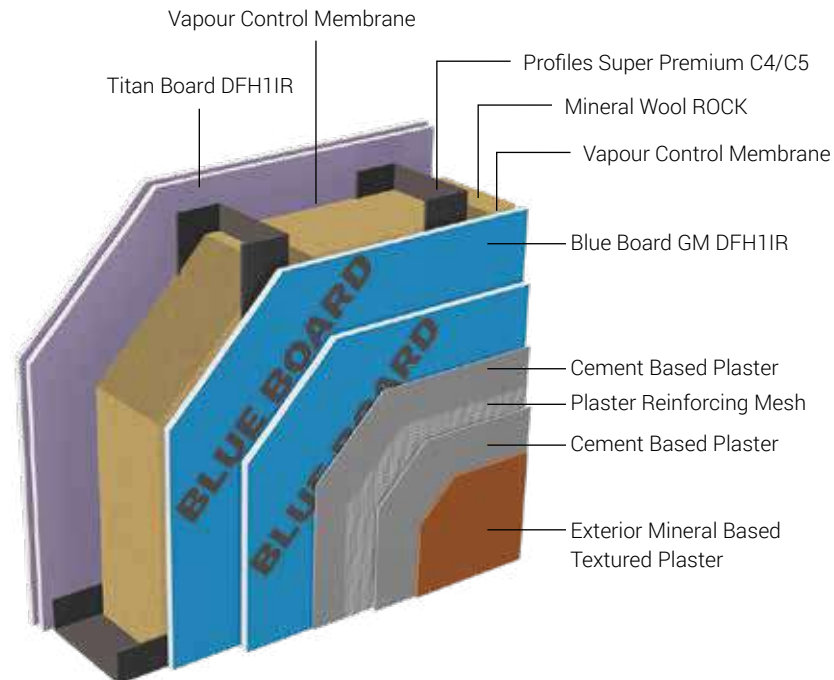
Technogips Pro offers special premium profiles, accessories and fasteners with anti-corrosion coating class C4 and C5 recommended for application in aggressive environmental conditions:

Category of Protection Against Corrosion, acc. EN ISO 12944-2	Aggressive Environment Examples		Technogips Pro Products with Anti-corrosion Coatin
	Exterior	Interior	
Class C3 Moderate Levels of Protection	Urban and industrial atmospheric conditions with moderate levels of air pollutants, coastal areas with low levels of salt content.	Production areas with high levels of moisture and moderate levels of air pollutants, e.g. dairy plants, breweries, laundries, food production facilities.	CD 60 and UD 27 Super Premium Profiles C4 CD 60 and UD 27 Super Premium Profiles C5 CW and UW Super Premium ProfilesC4 CW and UW Super Premium ProfilesC5 Drywall Screw TN 3.5 Super Premium C5 Drywall Screw TEX LB 4.2 Super Premium C5 Blue Board Screw TB 3.9 Super Premium C5 Self-Drilling Screw TB 3.5 Super Premium C5 Exterior Pro Screw SN 4.2 and SB 4.2 C5 Exterior Pro Plus Screw SN 4.2 and SB 4.2 C5 Adjusting Bracket Super Premium C5 CD-UA Cross Connector Super Premium C5 CD Connector Super Premium C5 Nonius Hanger System Super Premium C5
Class C4 Strong Levels of Protection	Industrial zones, coastal areas with moderate levels of salt in the air.	Spaces where condensation is frequent, with high levels of air pollutants caused by manufacturing processes, e.g. industrial areas, aquatic facilities, public changing rooms, shower areas, boat houses over sea water, chemical facilities etc.	
Class C5 Very Strong Levels of Protection	Industrial, coastal and off-shore areas with high level of salt content and pollutants.	Buildings and areas subject to constant condensation, intense humidity and high levels of pollutants, e.g. sea water or thermal baths.	

Technogips Pro APEX® Basic

Exterior Walls Technogips Pro with Blue Board and Direct Render Finish:

Exterior walls with Blue Board are simple and quick to design and install, creating smooth, stable, even surface, sealed with cement render and finished with plaster for exterior application providing both durability and aesthetics. The system consists of substructure of specially selected metal profiles, anchored to the load-bearing construction, the cavity between profiles is filled with mineral wool to provide the necessary thermal and acoustic insulation, the substructure is then cladded with plasterboard from inside and Blue Board on the outside. The exposed to exterior side of the Blue Board is subsequently coated with cement render and reinforcing mesh, second layer of cement render, suitable for exterior primer and finally a coat of exterior plaster.



Advantages:

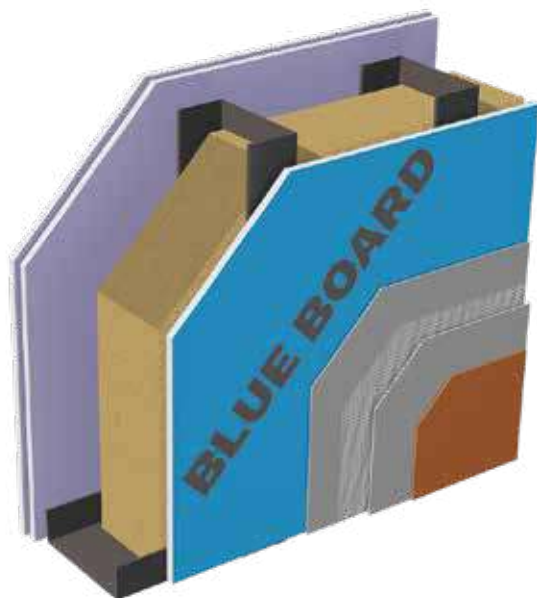
- Fast and easy installation
- Cost-efficient solution
- Good thermal insulation
- Good air-borne sound insulation
- Harsh weather shielding
- Highly technological materials
- Design flexibility due to the thinner walls of the systems
- Low self-weight of the exterior walls

Application:

- Premises with lower or moderate requirements for thermal resistance
- Buildings in areas with warm and mild climate
- Warehouses and logistic centers
- Industrial buildings
- Garages
- Substructures of main building

EXTERIOR WALLS

Technogips Pro APEX® W1-1 BASIC



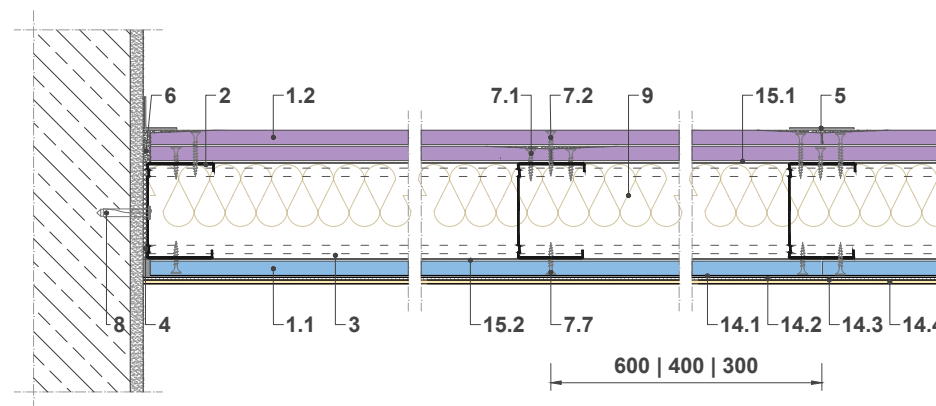
Thermal Transmittance
UD up to 0.23 W/m².K

Air-borne Sound Insulation
RW up to 57 dB

Wall Weight
up to 40 kg/m²

Wall Thickness
97.5 | 122.5 | 147.5 | 172.5 | 197.5 mm

Permissible Height
up to 4.80 m



Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]		
			600	400	300
1.1	Exterior Gypsum Board Technogips Pro Blue Board GM-DFH1IR	m²	1.0	1.0	1.0
1.2	Gypsum Board Technogips Pro Type H2 / DFH2 / Titan Board / Blue Board	m²	2.0	2.0	2.0
2	Profile Super Premium C4/C5 CW 0.6 mm	m'	2.0	2.8	3.8
3	Profile Super Premium C4/C5 UW 0.6 mm	m'	0.7	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2	1.2
5	Joint Tape @ all joints interior side of the wall ⁽²⁾	m'	1.9	1.9	1.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers interior side of the wall	kg	0.6	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	8.0	9.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15.0 mm boards	pcs	15.0	20.0	30.0
7.5	C5 Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	2.1	3.3	4.6
7.7	Exterior Pro Screw 4.2 x 25 mm @ 150 mm	pcs	18.0	23.0	32.0
8	Ceiling Anchor @ 500 mm	pcs	5.0	6.2	7.4
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9	0.9
11.1	Angle for UA	pcs	1.0	1.7	2.3
14.1	Cement Based Render Finish	kg	1.0	1.0	1.0
14.2	Reinforcing Mesh	m²	1.1	1.1	1.1
14.3	Exterior Primer	l	0.2	0.2	0.2
14.4	Exterior Mineral Based Plaster	kg	2.5	2.5	2.5
15.1	Vapour Barrier Membrane 0.2 mm	m²	1.2	1.2	1.2
15.2	Vapour Permeable Membrane	m²	1.2	1.2	1.2

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

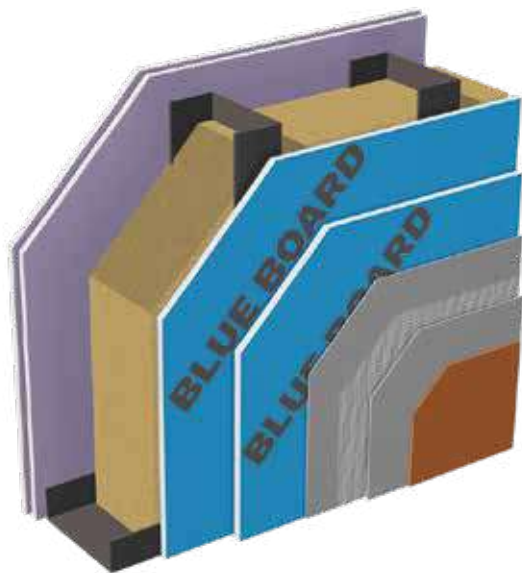
⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 3.6 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

EXTERIOR WALLS

Technogips Pro APEX® W1-2 BASIC



30 45 60 90 120 180

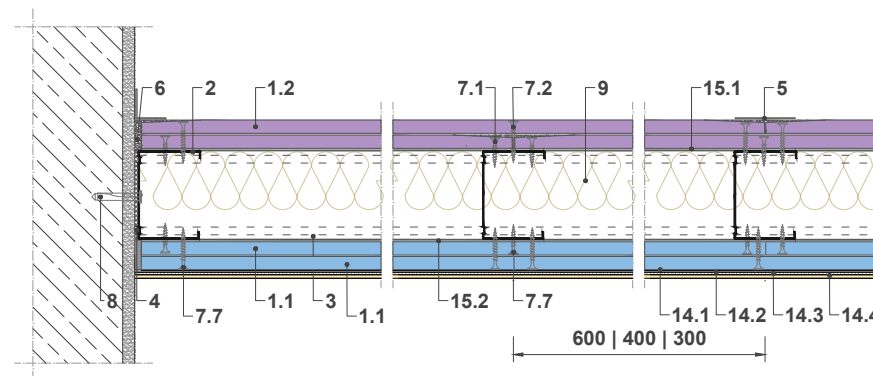
Thermal Transmittance
UD up to 0.22 W/m².K

Air-borne Sound Insulation
RW up to 62 dB

Wall Weight
up to 53 kg/m²

Wall Thickness
110 | 135 | 160 | 185 | 210 mm

Permissible Height
up to 4.80 m



Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]		
			600	400	300
1.1	Exterior Gypsum Board Technogips Pro Blue Board GM-DFH1IR	m²	2.0	2.0	2.0
1.2	Gypsum Board Technogips Pro Type H2 / DFH2 / Titan Board / Blue Board	m²	2.0	2.0	2.0
2	Profile Super Premium C4/C5 CW 0.6 mm	m'	2.0	2.8	3.8
3	Profile Super Premium C4/C5 UW 0.6 mm	m'	0.7	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2	1.2
5	Joint Tape @ all joints interior side of the wall ⁽²⁾	m'	1.9	1.9	1.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers interior side of the wall	kg	0.6	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	8.0	9.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15.0 mm boards	pcs	15.0	20.0	30.0
7.5	C5 Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	2.1	3.3	4.6
7.7	Exterior Pro Screw 4.2 x 25 mm @ 300 mm Exterior Pro Screw 4.2 x 39 mm @ 150 mm	pcs	9.0	12.0	16.0
8	Ceiling Anchor @ 500 mm	pcs	5.0	6.2	7.4
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9	0.9
11.1	Angle for UA	pcs	1.0	1.7	2.3
14.1	Cement Based Render Finish	kg	1.0	1.0	1.0
14.2	Plaster Reinforcing Mesh	m²	1.1	1.1	1.1
14.3	Exterior Primer	l	0.2	0.2	0.2
14.4	Exterior Mineral Based Plaster	kg	2.5	2.5	2.5
15.1	Vapour Barrier Membrane 0.2 mm	m²	1.2	1.2	1.2
15.2	Vapour Permeable Membrane	m²	1.2	1.2	1.2

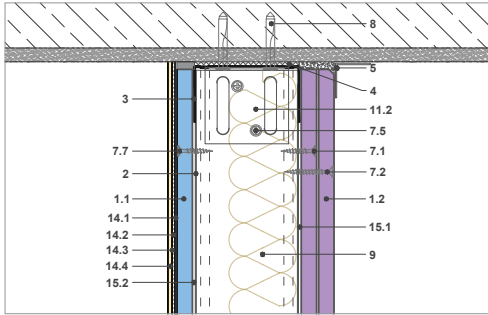
⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height x 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 3.6 m'/m².

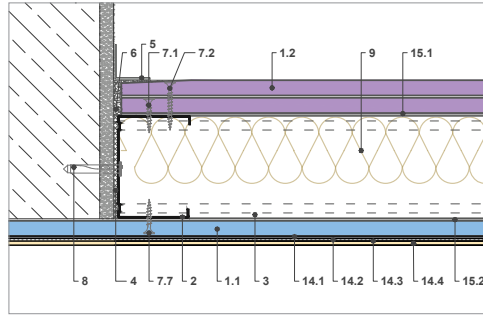
⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

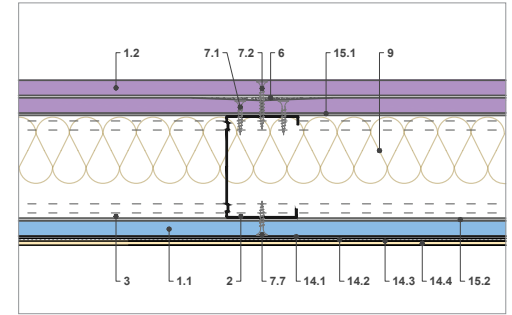
V01 Upper connection to concrete slab



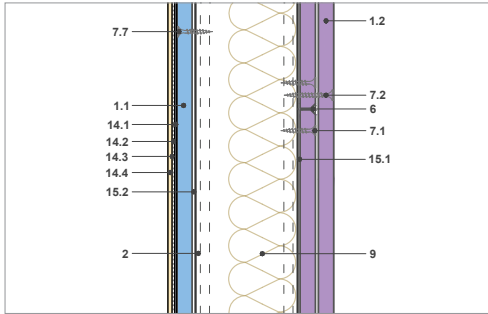
H01 Connection to concrete wall



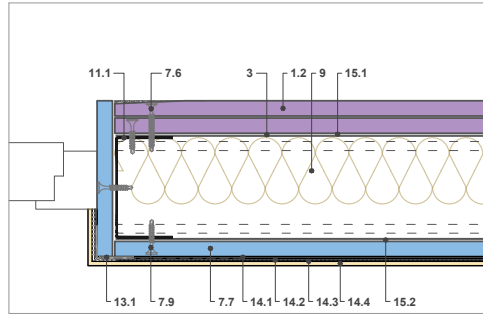
H02 Recessed edge joint



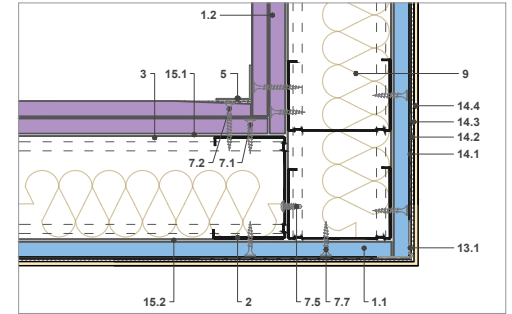
V02 Butt joint



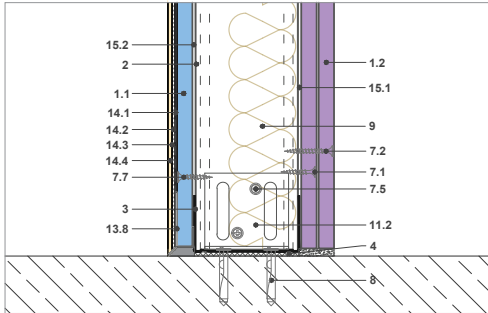
H05 Connection to window



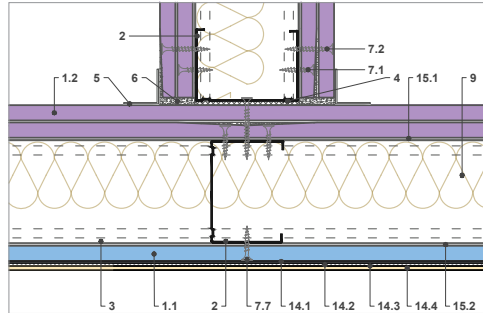
H03.1 Outer corner



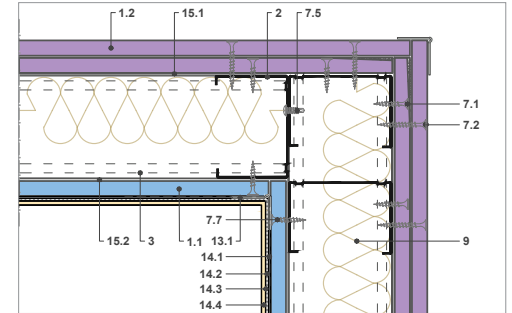
V03.1 Lower connection to concrete slab



H06 T-Connection, exterior wall to partition wall



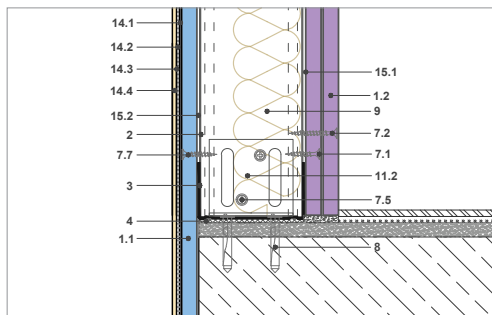
H03.2 Inner corner



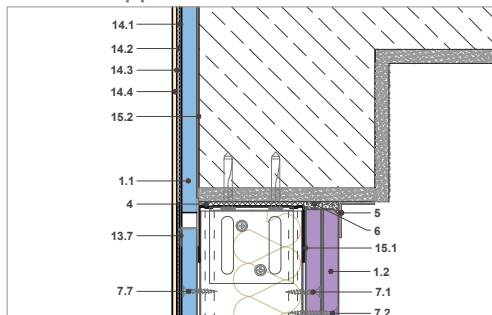
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1.1 Blue Board Type GM DFH1IR	6. Joint Filler FUGA	7.8 Exterior Pro Screw 4.2 x 39 mm	11.3 Mounting Set for UA	13.8 PVC Edge Profile With Water Drip Nose	15.1 Vapour Barrier
1.2 Gypsum Board Technogips Pro	7.1 Drywall Screw 3.5 x 25 mm	7.9. Exterior Pro Plus Screw 4.2 x 25, 39 mm	13.1 PVC Corner Bead With Mesh For Thermal Insulation	13.9 PVC Edge Profile	15.2 Vapour Permeable Membrane
2. Premium Profile CW	7.2 Drywall Screw 3.5 x 35 mm	8. Ceiling Anchor	13.3 PVC Water Drip Nose Profile For Thermal Insulation	14.1 Cement Based Render	16.2 Waterproofing
3. Premium Profile UW	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. Mineral Wool	13.4 PVC Vertical Expansion Joint Profile For Thermal Insulation	14.2 Reinforcing Mesh	17.1 Premium Profile CD
4. Acoustic Tape	7.6 Self-drilling Screw 3.5 x 25, 35 mm	11.1 Premium Profile UA	13.5 PVC Expansion Joint Profile For Dry Lining	14.3 Exterior Primer	17.2 Premium Profile UD
5. Joint Tape	7.7 Exterior Pro Screw 4.2 x 25 mm	11.2 Angle for UA Profile	13.7 PVC Horizontal Joint h-Profile	14.4 Mineral Based Plaster	

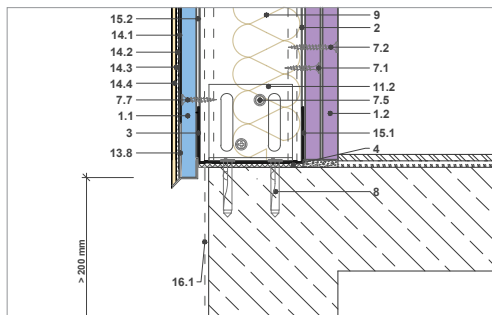
V03.2.1 Lower connection to concrete slab



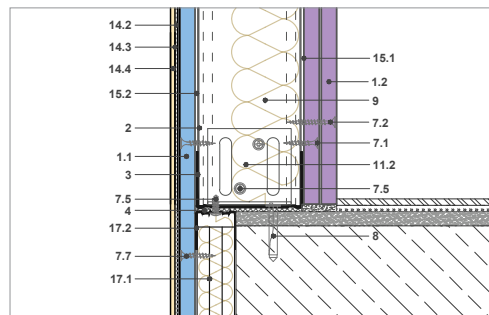
V03.2.2 Upper connection to concrete slab



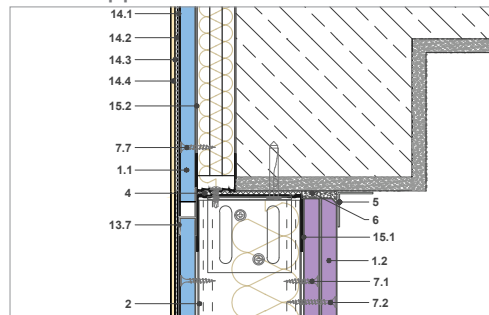
V03.4 Lower connection to socle



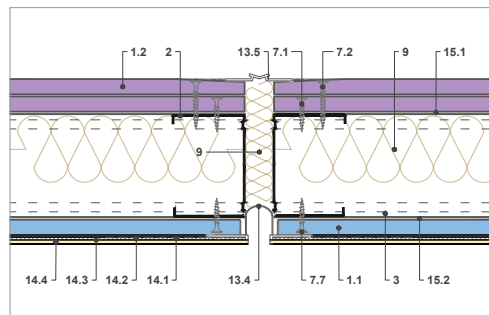
V03.3.1 Lower connection to concrete slab



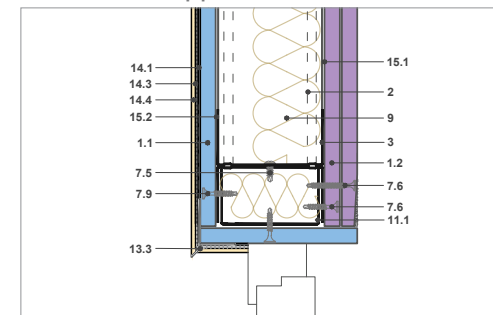
V03.3.2 Upper connection to concrete slab



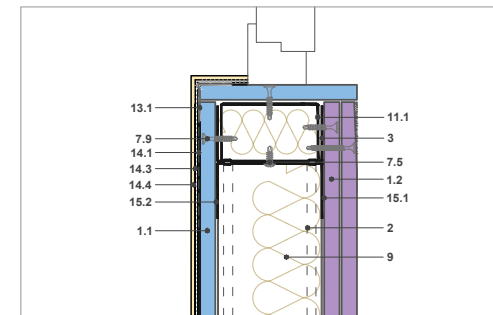
H04.1 Dilatation Joint



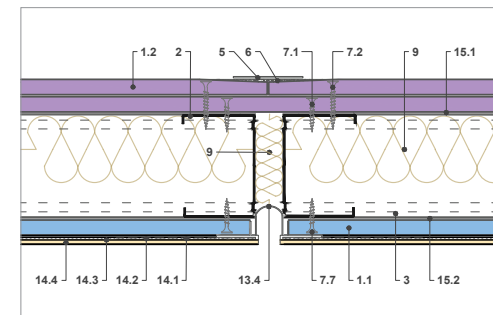
H04.1.1 Upper connection to window



H04.1.2 Lower connection to window



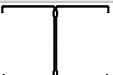
H04.2 Dilatation Joint



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1.1 Blue Board Type GM DFH1IR	6. Joint Filler FUGA	7.8 Exterior Pro Screw 4.2 x 39 mm	11.3 Mounting Set for UA	13.8 PVC Edge Profile With Water Drip Nose	15.1 Vapour Barrier
1.2 Gypsum Board Technogips Pro	7.1 Drywall Screw 3.5 x 25 mm	7.9. Exterior Pro Plus Screw 4.2 x 25, 39 mm	13.1 PVC Corner Bead With Mesh For Thermal Insulation	13.9 PVC Edge Profile	15.2 Vapour Permeable Membrane
2. Premium Profile CW	7.2 Drywall Screw 3.5 x 35 mm	8. Ceiling Anchor	13.3 PVC Water Drip Nose Profile For Thermal Insulation	14.1 Cement Based Render	16.2 Waterproofing
3. Premium Profile UW	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. Mineral Wool	13.4 PVC Vertical Expansion Joint Profile For Thermal Insulation	14.2 Reinforcing Mesh	17.1 Premium Profile CD
4. Acoustic Tape	7.6 Self-drilling Screw 3.5 x 25, 35 mm	11.1 Premium Profile UA	13.5 PVC Expansion Joint Profile For Dry Lining	14.3 Exterior Primer	17.2 Premium Profile UD
5. Joint Tape	7.7 Exterior Pro Screw 4.2 x 25 mm	11.2 Angle for UA Profile	13.7 PVC Horizontal Joint h-Profile	14.4 Mineral Based Plaster	

I. Preliminary metal structure design recommendations based on the wind load:

Permissible heights of exterior walls with direct render finish based on expected wind load [m]						
Metal Structure				Wind Load [kN/m²]		
Type		Metal gauge [mm]	Axial distance between studs [mm]	0.50	0.80	1.10
	UA 50	2.00	400	2.5	-	-
			300	2.8	-	-
	2xCW75	0.60	300	2.8	-	-
	UA 75	2.00	600	3.0	2.6	-
			400	3.4	3.0	2.7
			300	3.8	3.3	2.9
	CW 100	0.60	400	2.6	-	-
			300	3.2	2.6	-
	2xCW 100	0.60	600	3.2	2.6	-
			400	3.2	3.2	2.9
			300	3.4	3.2	3.2
	UA 100	2.00	600	3.8	3.2	2.9
			400	4.3	3.7	3.3
			300	4.8	4.1	3.7
	CW 125	0.60	400	2.8	-	-
			300	3.2	2.6	-
	2xCW 125	0.60	600	3.1	2.6	-
			400	3.6	3.2	2.9
			300	4.0	3.4	3.2
	CW 150	0.60	600	2.5	-	-
			400	3.1	2.5	-
			300	3.5	2.9	2.5
	2xCW 150	0.60	600	3.6	2.9	2.5
			400	4.2	3.5	3.0
			300	4.6	3.9	3.5

*The table is a recommendation for the preliminary design of the metal structure and selection of metal profiles under normal wind load conditions. The measurements are made based on german standards and safety measures. The final selection must take into account local climatic conditions, the shape of the building, its location and other external factors that influence the loads on facades. The engineer who carries out the structural studies of the building is always responsible for verification of our calculations.

II. Preliminary metal structure design recommendations based on the seismic load:

Permissible heights of exterior walls with direct render finish based on the seismic load [m]					
Metal Structure		Seismic Load S _{ag} [m/s²]			
Type	Axial distance between studs [mm]	0-2.7	3.2-3.6	4.0-4.5	5.0
CW 100	600	3.0	2.7	2.6	2.5
	400	3.4	3.1	3.0	2.9
2xCW 100	600	3.3	3.0	2.9	2.8
	400	3.7	3.4	3.3	3.2
CW 125	600	3.5	3.2	3.0	2.9
	400	4.0	3.7	3.6	3.4
2xCW 125	600	4.0	4.0	3.8	3.7
	400	4.0	4.0	4.0	4.0
CW 150	600	4.0	3.7	3.5	3.4
	400	4.0	4.0	4.0	3.9
2xCW 150	600	4.0	4.0	4.0	4.0
	400	4.0	4.0	4.0	4.0

Based on wall wight 48 dN/m²

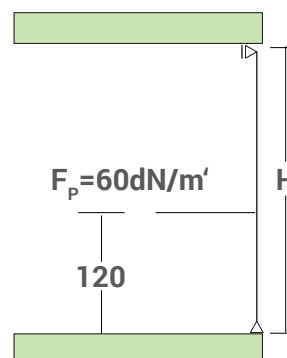
S – soil factor acc. to EC8

$a_g = a_{gr} \cdot \gamma_1 \cdot 9.81$

a_{gr} – reference peak ground acceleration acc. to EC8 / NA

γ_1 – importance factor acc. to EC

III. Static design model: built-in installation



Basic wind velocity for calculations of the wind loads

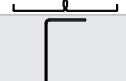
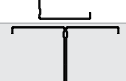
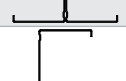
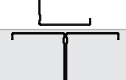
are acc. to EN1991-1-4/NA

Pressure and force coefficients are acc. to EN1991-1-4

F_p – horizontal force acc. to EN1991-1-1

Maximum horizontal deflection = $H/350$

IV. Technical parameters of Technogips Pro APEX® Systems Exterior Walls with Direct Render Finish

Heat Transfer Coefficient and Air-borne Sound InsulationTechnogips Pro APEX© Basic								
Metal Structure				Insulation Material	Technical Parameters			
Type		Metal Gauge [mm]	Axial Distance between Studs [mm]	Mineral Wool [cm]	Wall Weight [kg/m²]	Wall Thickness [cm]	U _D value [W/m²K]	R _w [dB]
	UA 50	2.00	400	5.0	37.0	9.75	0.59	47
			300					
	2xCW75	0.60	300	7.5	37.0	12.25	0.44	52
	UA 75	2.00	600	7.5	38.0	12.25	0.42	51
			400					
			300					
	CW 100	0.60	400	10.0	36.3	14.75	0.33	54
			300					
	2xCW 100	0.60	600	10.0	36.3	14.75	0.35	54
			400					
			300					
	UA 100	2.00	600	10.0	39.4	14.75	0.34	53
			400					
			300					
	CW 125	0.60	400	12.5	37.0	17.25	0.27	56
			300					
	2xCW 125	0.60	600	12.5	39.2	17.25	0.30	56
			400					
			300					
	CW 150	0.60	600	15.0	37.7	19.75	0.23	57
			400					
			300					
	2xCW 150	0.60	600	15.0	40.0	19.75	0.27	57
			400					
			300					

⁽¹⁾ Exterior Cladding with Blue Board Type GM-DFH1IR and internal cladding with 2 layers of Technogips Pro Plasterboard Type A

⁽²⁾ Calculations based on insulation material: FABRIC 0.037 (λ) = 0,037 - mineral glass wool

⁽³⁾ To prevent moisture and condensation, it is recommended to use vapor control layer.

⁽⁴⁾ Profiles manufactured in acc. with EN 14195. Class of protection against corrosion acc. to EN ISO 12944-2: Class C4

⁽⁵⁾ Metal studs are anchored in the concrete slab with angles for UA

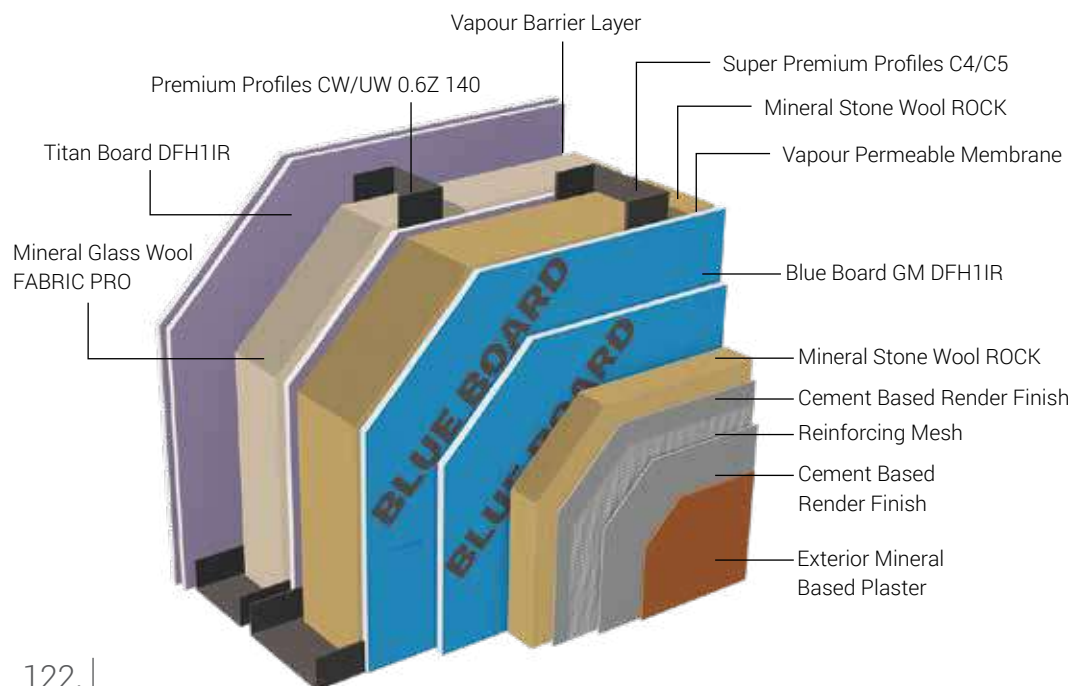
Technogips Pro APEX[®] ETICS

Exterior Walls Technogips Pro with Blue Board и ETICS:

Exterior walls with Blue Board are simple and quick to design and install, creating smooth, stable, even surface, perfect substrate for ETICS - External Thermal Insulation Composite System. The system consists of substructure of specially selected metal profiles, anchored to the load-bearing construction, the cavity between profiles is filled with mineral wool to provide the necessary thermal and acoustic insulation, the substructure is then clad with plasterboard from inside and Blue Board on the outside. The exposed to exterior side of the Blue Board is subsequently finished with EPS or exterior mineral stone wool to improve the overall thermal and acoustic performance of the system.

Application:

- Buildings with higher requirement for thermal insulation
- Buildings with higher requirement for acoustic insulation
- Residential, public buildings, schools, hospitals, hotels etc.
- High rise buildings
- Projects with requirements for short installation periods
- Green, sustainable and/or passive buildings

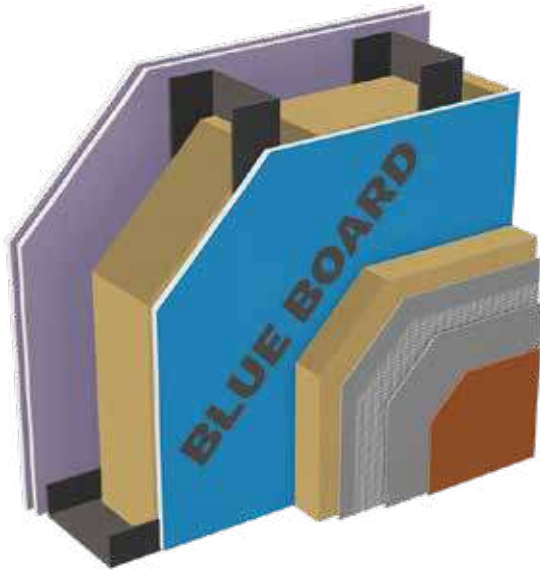


Advantages:

- Improved energy efficiency
- Excellent thermal insulation according to the highest standards
- Highest acoustic insulation properties
- Shielding from harsh weather conditions
- Highly technological building materials
- Design freedom due to the thinner walls required
- Low weight of the exterior walls
- Quick, simple and easy installation
- Cost efficient construction method

EXTERIOR WALLS

Technogips Pro APEX® W1-1 ETICS



30 45 60 90 120 180

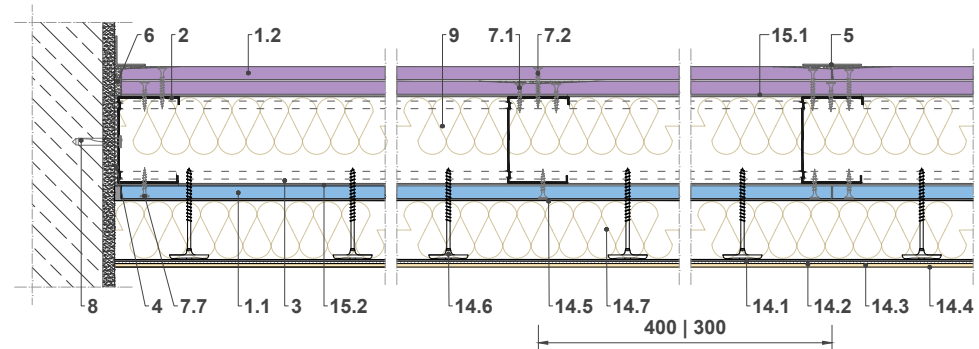
Thermal Transmittance
UD up to 0.17 W/m².K

Air-borne Sound Insulation
RW up to 62 dB

Wall Weight
up to 48 kg/m²

Wall Thickness
147.5 | 172.5 | 197.5 | 222.5 | 247.5 mm

Permissible Height
up to 4.80 m



Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]	
			400	300
1.1	Technogips Pro Blue Board GM-DFH1IR	m²	1.0	1.0
1.2	Gypsum Board Technogips Pro Type H2 / DFH2 / Titan Board / Blue Board	m²	2.0	2.0
2	Profile Super Premium C4/C5 CW 0.6 mm	m'	2.8	3.8
3	Profile Super Premium C4/C5 UW 0.6 mm	m'	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2
5	Joint Tape @ all joints interior side of the wall ⁽²⁾	m'	1.9	1.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers interior side of the wall	kg	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	9.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15.0 mm boards	pcs	20.0	30.0
7.5	C5 Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	3.3	4.6
7.7	Exterior Pro Screw 4.2 x 25 mm @ 150 mm	pcs	23.0	32.0
8	Ceiling Anchor @ 500 mm	pcs	6.2	7.4
9	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9
11.1	Angle for UA	pcs	1.7	2.3
14.1	Cement Based Render Finish	kg	1.0	1.0
14.2	Reinforcing Mesh	m²	1.1	1.1
14.3	Exterior Primer	kg	0.2	0.2
14.4	Exterior Mineral Based Plaster	kg	2.5	2.5
14.5	Cement Based Adhesive	kg	7.5	7.5
14.6	ETICS dowel	pcs	8.0	8.0
14.7	Stone Wool ROCK Exterior Thermal Insulation	m²	1.0	1.0
15.1	Vapour Barrier Membrane 0.2 mm	m²	1.2	1.2
15.2	Vapour Permeable Membrane	m²	1.2	1.2

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

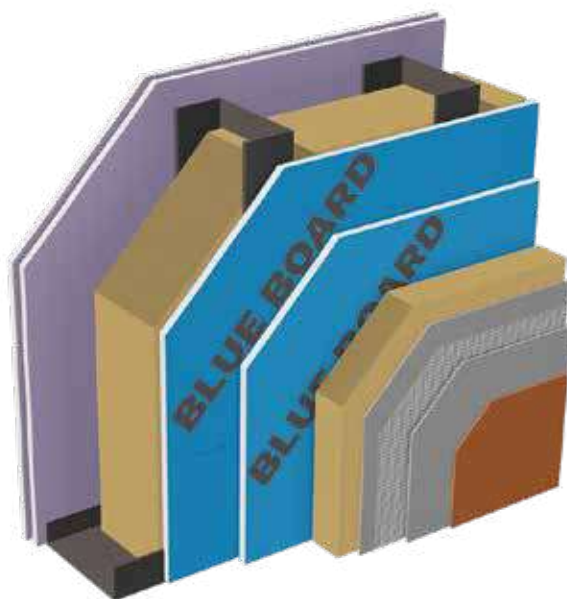
⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 3.6 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

EXTERIOR WALLS

Technogips Pro APEX® W1-2 ETICS



30 45 60 90 120 180

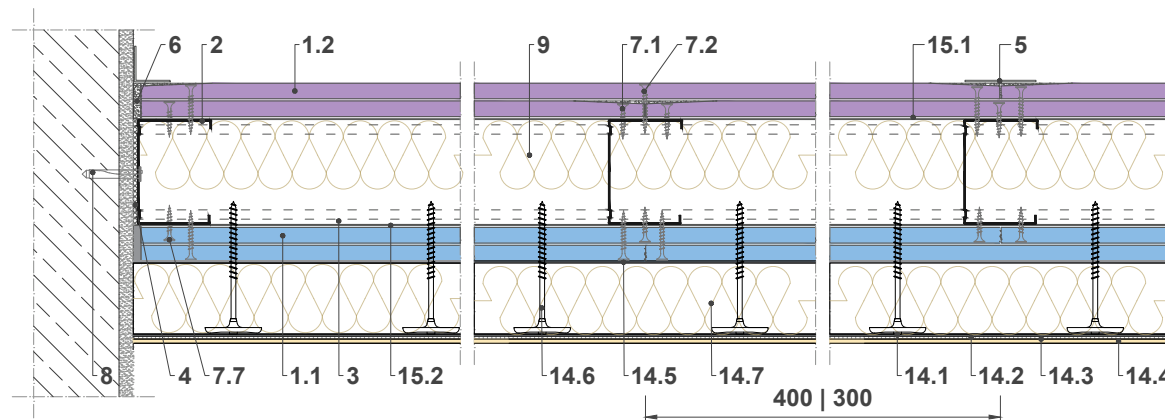
Thermal Transmittance
UD up to 0.16 W/m².K

Air-borne Sound Insulation
RW up to 65 dB

Wall Weight
up to 61 kg/m²

Wall Thickness
160 | 185 | 210 | 235 | 260 mm

Permissible Height
up to 4.80 m



Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]	
			400	300
1.1	Technogips Pro Blue Board GM-DFH1IR	m²	2.0	2.0
1.2	Gypsum Board Technogips Pro Type H2 / DFH2 / Titan Board / Blue Board	m²	2.0	2.0
2	Super Premium Profile C4/C5 CW 0.6 mm	m'	2.8	3.8
3	Super Premium Profile C4/C5 UW 0.6 mm	m'	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2
5	Joint Tape @ all joints interior side of the wall ⁽²⁾	m'	1.9	1.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers interior side of the wall	kg	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	9.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15.0 mm boards	pcs	20.0	30.0
7.5	C5 Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	3.3	4.6
7.7	Exterior Pro Screw 4.2 x 25 mm @ 300 mm Exterior Pro Screw 4.2 x 39 mm @ 150 mm	pcs	12.0 23.0	16.0 32.0
8	Ceiling Anchor @ 500 mm	pcs	6.2	7.4
9.1	Mineral Glass Wool FABRIC PRO ⁽⁴⁾	m²	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9
11.1	Angle for UA	pcs	1.7	2.3

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 3.6 m/m².

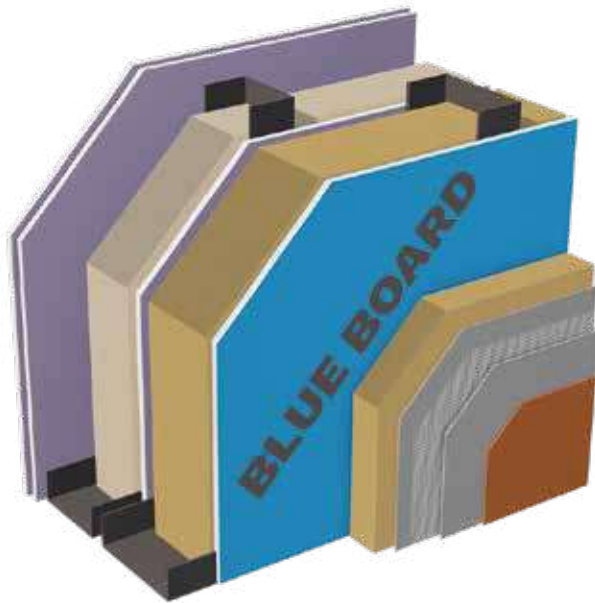
⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

⁽⁵⁾ Consumption for ETICS is the same as in the Technogips Pro APEX® W1-1 ETICS system.

EXTERIOR WALLS

Technogips Pro APEX® W2-1 ETICS



30 45 60 90 120 180

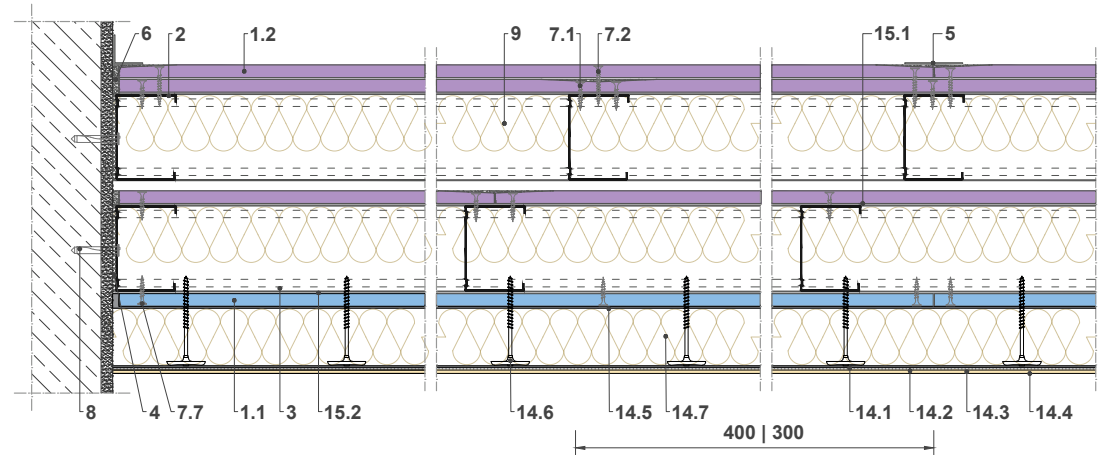
Thermal Transmittance
UD up to 0.14 W/m².K

Air-borne Sound Insulation
RW up to 67 dB

Wall Weight
up to 67 kg/m²

Wall Thickness
210 | 235 | 260 | 285 | 310 mm

Permissible Height
up to 4.80 m



Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]	
			400	300
1.1	Technogips Pro Blue Board GM-DFH1IR	m²	1.0	1.0
1.2	Gypsum Board Technogips Pro Type H2 / DFH2 / Titan Board / Blue Board	m²	3.0	3.0
2.1	Super Premium Profile C4/C5 CW 0.6 mm	m'	2.8	3.8
3.1	Super Premium Profile C4/C5 UW 0.6 mm	m'	0.7	0.7
2.2	Premium Profile Z140 CW 0.6 mm	m'	2.8	3.8
3.2	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2
5	Joint Tape @ all joints interior side of the wall ⁽²⁾	m'	1.9	1.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers interior side of the wall	kg	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	9.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15.0 mm boards	pcs	20.0	30.0
7.5	C5 Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	3.3	4.6
7.7	Exterior Pro Screw 4.2 x 25 mm @ 150 mm	pcs	23.0	32.0
8	Ceiling Anchor @ 500 mm	pcs	6.2	7.4
9.1	Mineral Glass Wool FABRIC PRO ⁽⁴⁾ internal insulation	m²	1.0	1.0
9.2	Stone Wool ROCK Exterior Thermal Insulation	m²	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9
11.1	Angle for UA	pcs	1.7	2.3

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 3.6 m'/m².

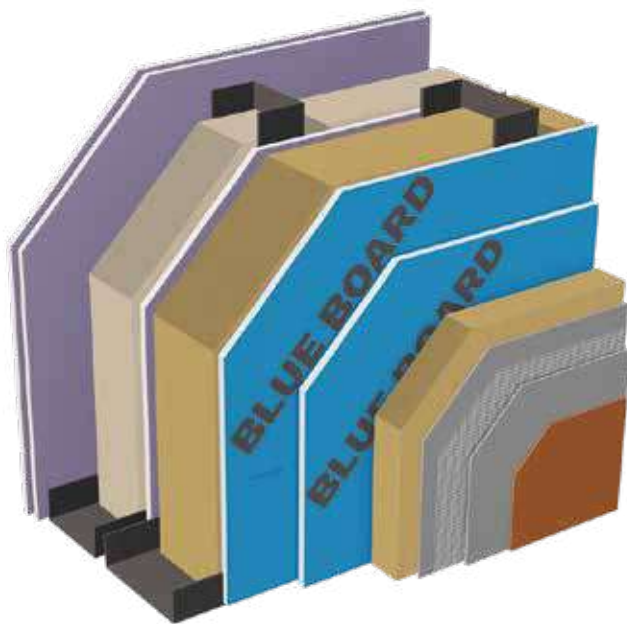
⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

⁽⁵⁾ Consumption for ETICS is the same as in the Technogips Pro APEX® W1-1 ETICS system.

EXTERIOR WALLS

Technogips Pro APEX® W2-2 ETICS



30 45 60 90 120 180

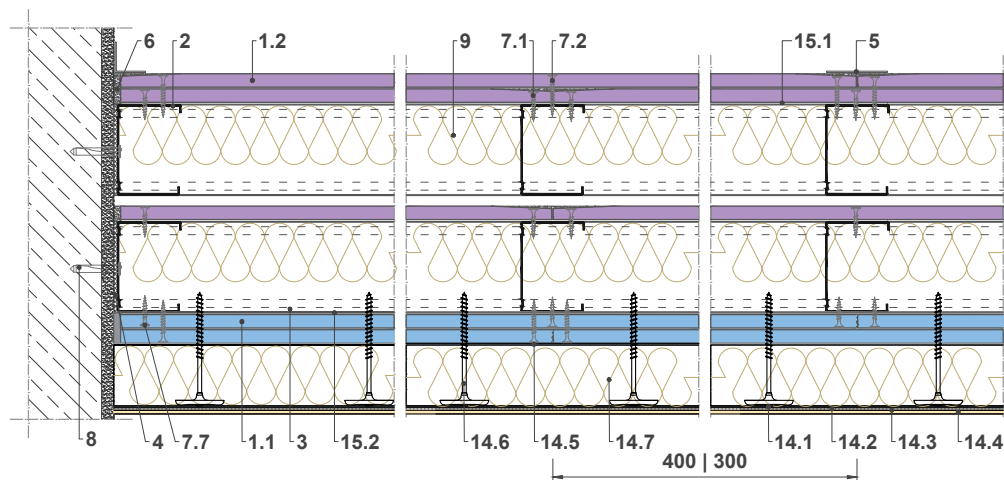
Thermal Transmittance
UD up to 0.13 W/m².K

Air-borne Sound Insulation
RW up to 72 dB

Wall Weight
up to 80 kg/m²

Wall Thickness
222.5 | 247.5 | 272.5 | 297.5 | 322.5 mm

Permissible Height
up to 4.80 m



Material Consumption ⁽¹⁾ per 1 m²			Stud Spacing [mm]	
			400	300
1.1	Technogips Pro Blue Board GM-DFH1IR	m²	2.0	2.0
1.2	Gypsum Board Technogips Pro Type H2 / DFH2 / Titan Board / Blue Board	m²	3.0	3.0
2.1	Super Premium Profile C4/C5 CW 0.6 mm	m'	2.8	3.8
3.1	Super Premium Profile C4/C5 UW 0.6 mm	m'	0.7	0.7
2.2	Premium Profile Z140 CW 0.6 mm	m'	2.8	3.8
3.2	Premium Profile Z140 UW 0.6 mm	m'	0.7	0.7
4	Acoustic Tape @ all peripheral profiles	m'	1.2	1.2
5	Joint Tape @ all joints interior side of the wall ⁽²⁾	m'	1.9	1.9
6	Joint Filler FUGA / FUGA&FINISH ⁽³⁾ @ all layers interior side of the wall	kg	0.6	0.6
7.1	Drywall Screw 3.5 x 25 mm @ 500 mm	pcs	9.0	15.0
7.2	Drywall Screw 3.5 x 35 mm @ 250 mm @ 12.5 mm boards Drywall Screw 3.5 x 45 mm @ 250 mm @ 15.0 mm boards	pcs	20.0	30.0
7.5	C5 Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	3.3	4.6
7.7	Exterior Pro Screw 4.2 x 25 mm @ 300 mm	pcs	12.0	16.0
	Exterior Pro Screw 4.2 x 39 mm @ 150 mm	pcs	23.0	32.0
8	Ceiling Anchor @ 500 mm	pcs	6.2	7.4
9.1	Mineral Glass Wool FABRIC PRO ⁽⁴⁾ internal insulation	m²	1.0	1.0
9.2	Stone Wool ROCK ⁽⁴⁾ Exterior Thermal Insulation	m²	1.0	1.0
10	Skim Coat SATEN / FUGA&FINISH ⁽³⁾	kg	0.9	0.9
11.1	Angle for UA	pcs	1.7	2.3

⁽¹⁾ The consumption rates are based on rectangular wall without curves, openings and changes in the geometry, surface area of 10.8 m² (2.7 m height и 4.0 m width), without accounting for the waste, scrapes and losses.

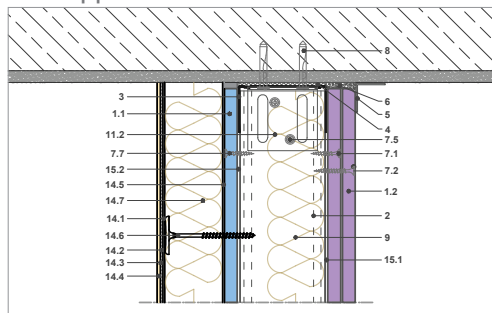
⁽²⁾ In case of fire protection requirement, joint tape should be applied on every layer of the cladding. The consumption rate will be 3.6 m'/m².

⁽³⁾ Consumption rate of FUGA&FINISH is 0.7 kg/m² for jointing and 0.5 kg/m² for skim coating.

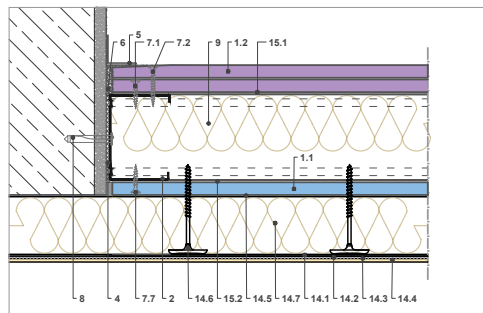
⁽⁴⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

⁽⁵⁾ Consumption for ETICS is the same as in the Technogips Pro APEX® W1-1 ETICS system.

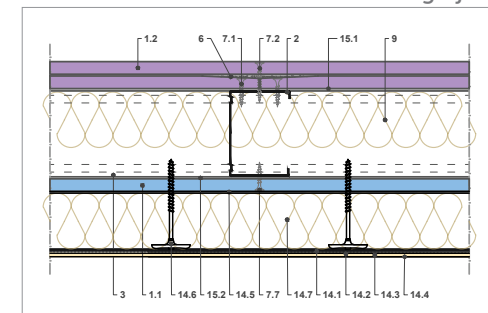
V01 Upper connection to concrete slab



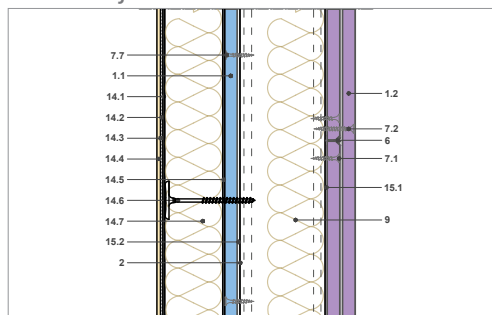
H01 Connection to concrete wall



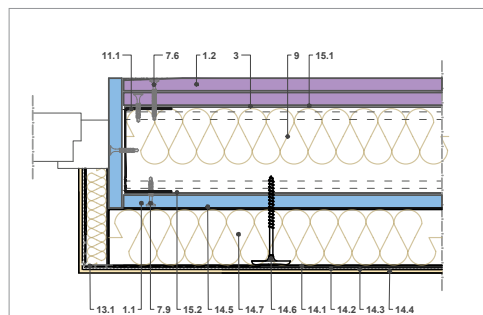
H02 Recessed edge joint



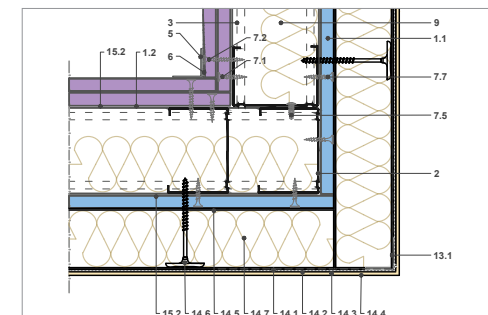
V02 Butt joint



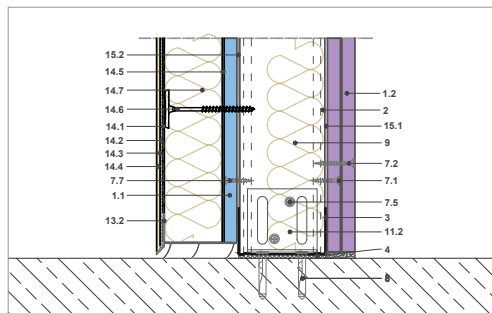
H05 Connection to window



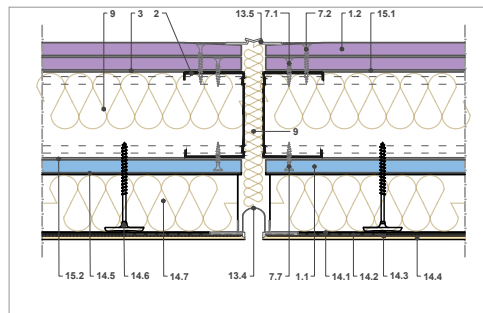
H03.1 Outer corner



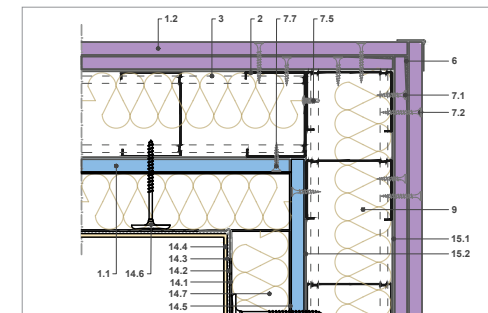
V03.1 Lower connection to concrete slab



H04 Dilatation Joint



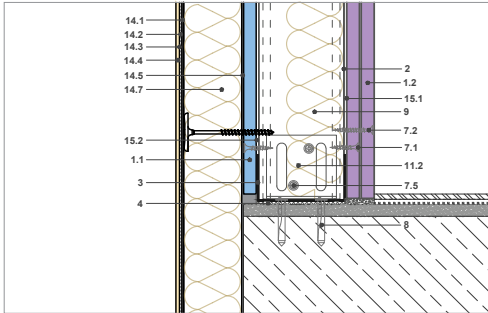
H03.2 Inner corner



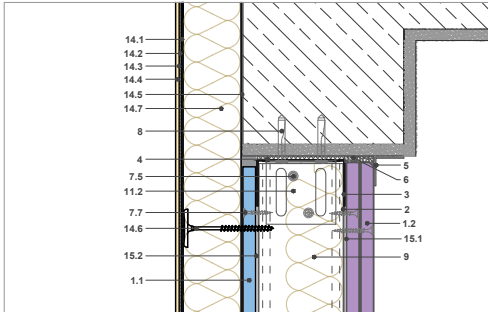
CERTIFIED SYSTEM COMPONENTS Technogips Pro

1.1 Blue Board Type GM DFH1IR	6. Joint Filler FUGA	7.8 Exterior Pro Screw 4.2 x 39 mm	11.3 Mounting Set for UA	13.6 Socle Profile	14.6 ETICS dowel
1.2 Gypsum Board Technogips Pro	7.1 Drywall Screw 3.5 x 25 mm	7.9. Exterior Pro Plus Screw 4.2 x 25, 39 mm	13.1 PVC Corner Bead With Mesh For Thermal Insulation	14.1 Cement Based Render	14.7 Exterior Insulation
2. Premium Profile CW	7.2 Drywall Screw 3.5 x 35 mm	8. Ceiling Anchor	13.2 PVC Floor Connection Profile	14.2 Reinforcing Mesh	15.1 Vapour Barrier
3. Premium Profile UW	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. Mineral Wool	13.3 PVC Water Drip Nose Profile For Thermal Insulation	14.3 Exterior Primer	15.2 Premium Profile CD
4. Acoustic Tape	7.6 Self-drilling Screw 3.5 x 25, 35 mm	11.1 Premium Profile UA	13.4 PVC Vertical Expansion Joint Profile For Thermal Insulation	14.4 Mineral Based Plaster	16.1 Premium Profile UD
5. Joint Tape	7.7 Exterior Pro Screw 4.2 x 25 mm	11.2 Angle for UA Profile	13.5 PVC Expansion Joint Profile For Dry Lining	14.5 Cement Based Adhesive	16.2 Waterproofing

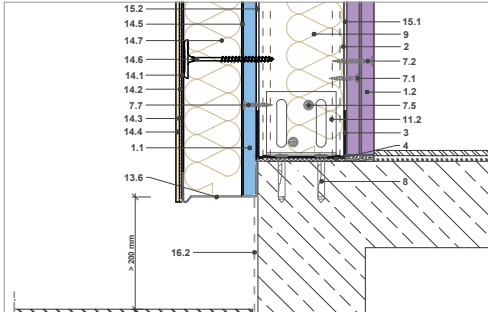
V03.2.1 Lower connection to concrete slab



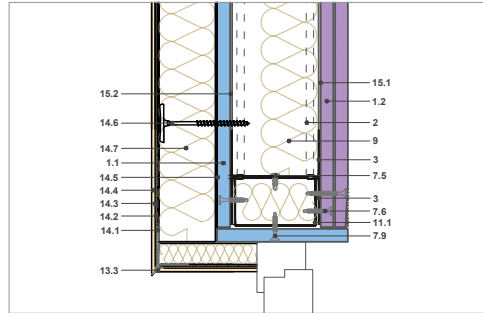
V03.2.2 Upper connection to concrete slab



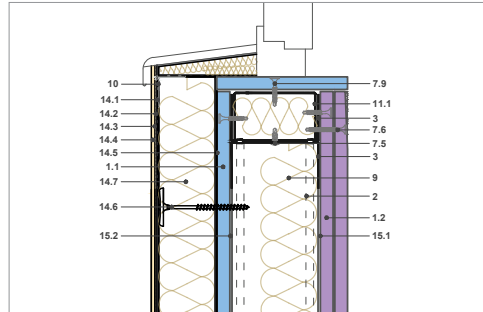
V03.3 Lower connection to socle



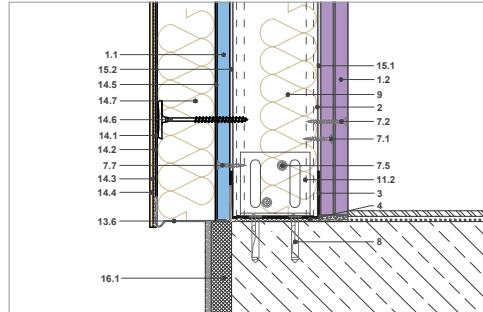
V04.1.1 Lower connection to window



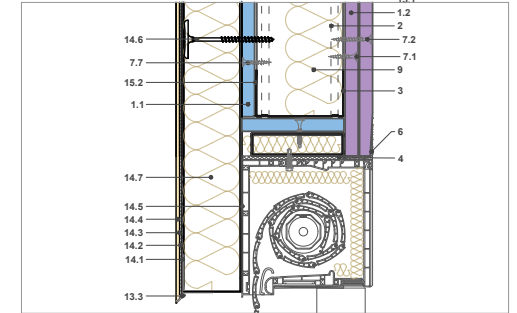
V04.1.2 Upper connection to window



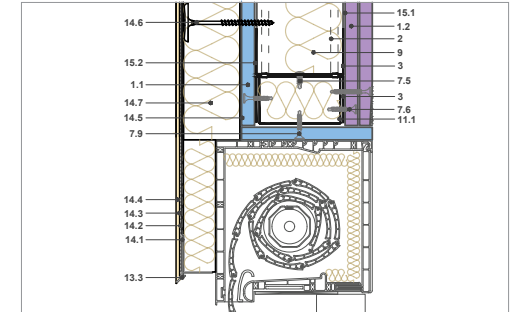
H03.4 Connection to Socle



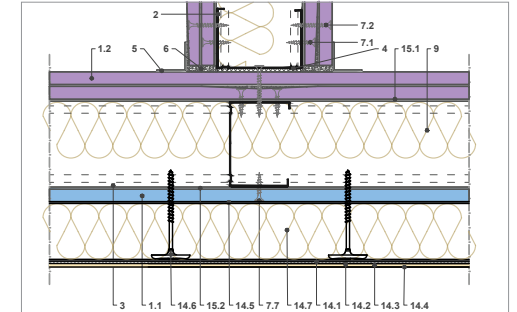
H04.2.1 Lower connection to exterior roller blinds



H04.2.2 Lower connection to exterior roller blinds



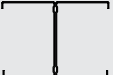
H06 T-Connection, exterior wall to partition wall



CERTIFIED SYSTEM COMPONENTS Technogips Pro

1.1 Blue Board Type GM DFH11R	6. Joint Filler FUGA	7.8 Exterior Pro Screw 4.2 x 39 mm	11.3 Mounting Set for UA	13.6 Socle Profile	14.6 ETICS dowel
1.2 Gypsum Board Technogips Pro	7.1 Drywall Screw 3.5 x 25 mm	7.9. Exterior Pro Plus Screw 4.2 x 25, 39 mm	13.1 PVC Corner Bead With Mesh For Thermal Insulation	14.1 Cement Based Render	14.7 Exterior Insulation
2. Premium Profile CW	7.2 Drywall Screw 3.5 x 35 mm	8. Ceiling Anchor	13.2 PVC Floor Connection Profile	14.2 Reinforcing Mesh	15.1 Vapour Barrier
3. Premium Profile UW	7.5 Self-drilling Screw TEX LB 4.2 x 13 mm	9. Mineral Wool	13.3 PVC Water Drip Nose Profile For Thermal Insulation	14.3 Exterior Primer	15.2 Premium Profile CD
4. Acoustic Tape	7.6 Self-drilling Screw 3.5 x 25, 35 mm	11.1 Premium Profile UA	13.4 PVC Vertical Expansion Joint Profile For Thermal Insulation	14.4 Mineral Based Plaster	16.1 Premium Profile UD
5. Joint Tape	7.7 Exterior Pro Screw 4.2 x 25 mm	11.2 Angle for UA Profile	13.5 PVC Expansion Joint Profile For Dry Lining	14.5 Cement Based Adhesive	16.2 Waterproofing

I. Preliminary metal structure design recommendations based on the wind load:

Permissible heights of exterior walls with ETICS based on expected wind load [m]						
Metal Structure			Wind Load [kN/m²]			
Type	Metal Gauge [mm]	Axial distance between studs [mm]	0.50	0.80	1.10	
	UA 50	2.00	400	2.5	-	-
			300	2.8	-	-
	2xCW75	0.60	300	2.8	-	-
	UA 75	2.00	600	3.0	2.6	-
			400	3.4	3.0	2.7
			300	3.8	3.3	2.9
	CW 100	0.60	400	2.5	-	-
			300	2.7	-	-
	2xCW 100	0.60	600	2.7	-	-
			400	3.1	2.7	-
			300	3.4	2.9	2.5
	UA 100	2.00	600	3.8	3.2	2.9
			400	4.3	3.7	3.3
			300	4.8	4.1	3.7
	CW 125	0.60	400	2.8	-	-
			300	3.2	2.6	-
	2xCW 125	0.60	600	3.1	2.6	-
			400	3.6	3.1	2.8
			300	4.0	3.4	3.1
	CW 150	0.60	600	2.5	-	-
			400	3.1	2.5	-
			300	3.5	2.9	2.5
	2xCW 150	0.60	600	3.6	2.9	2.5
			400	4.2	3.5	3.0
			300	4.6	3.9	3.5

*The table is a recommendation for the preliminary design of the metal structure and selection of metal profiles under normal wind load conditions. The measurements are made based on german standards and safety measures. The final selection must take into account local climatic conditions, the shape of the building, its location and other external factors that influence the loads on facades. The engineer who carries out the structural studies of the building is always responsible for verification of our calculations.

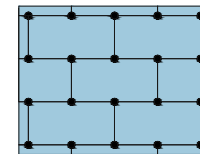
II. Preliminary determination of the number of ETICS dowels and their pattern of distribution:

ETICS dowel number per m², acc. to DIN 1055-4			
Wind Load [kN/m²]	Building Height		
	up to 10 m	up to 18 m	up to 25 m
0.5	4	6	6
1.0	6	6	6
1.1	6	6	6
1.3	8	8	8
1.5	10	10	12

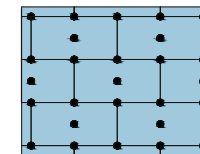
(1) The required number of dowels if determined by the wind load and the local national regulations and construction norms

(2) Design load should not exceed 0,20 kN per dowel

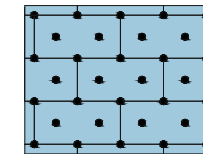
(3) All dowels should be anchored in the metal frame



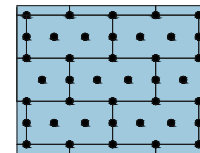
4 dowels / m²



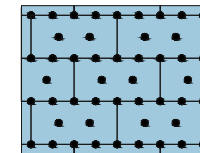
6 dowels / m²



8 dowels / m²

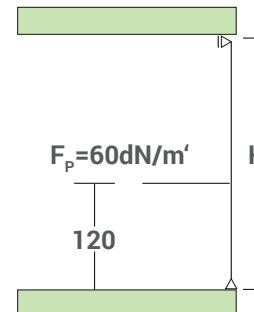


10 dowels / m²



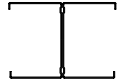
12 dowels / m²

III. Static design model: built-in installatio



Basic wind velocity for calculations of the wind loads are acc. to EN1991-1-4/NA
Pressure and force coefficients are acc. to EN1991-1-4
 F_p – horizontal force acc. to EN1991-1-1
Maximum horizontal deflection = $H/350$

IV. Technical parameters of Technogips Pro APEX® ETICS

Heat Transfer Coefficient and Air-borne Sound Insulation Technogips Pro APEX® ETICS mineral stone wool (λ=0,034)										
Metal Structure		Insulation Material		Technical Parameters Technogips Pro APEX® W1-1 ETICS				Technical Parameters Technogips Pro APEX® W2-1 ETICS		
Type		Metal Gauge [mm]	Mineral Wool Internal side [cm]	ETICS Insulation [cm]	Wall Weight [kg/m²]	Wall Thickness [cm]	UD value [W/m²K]	Rw [dB]	UD value [W/m²K]	Rw [dB]
	UA 50	2.00	5.0	5.0	43.0	14.75	0.32	56	0.24	61
	2xCW75	0.60	7.5	5.0	47.0	17.25	0.27	58	0.22	63
	UA 75	2.00	7.5	5.0	48.0	17.25	0.25	57	0.20	62
	CW 100	0.60	10.0	5.0	45.0	19.75	0.22	60	0.17	65
	2xCW 100	0.60	10.0	5.0	47.0	19.75	0.24	60	0.19	65
	UA 100	2.00	10.0	5.0	48.0	19.75	0.23	59	0.18	64
	CW 125	0.60	12.5	5.0	45.0	22.25	0.19	61	0.15	66
	2xCW 125	0.60	12.5	5.0	47.0	22.25	0.22	61	0.19	66
	CW 150	0.60	15.0	5.0	45.0	24.75	0.17	62	0.14	67
	2xCW 150	0.60	15.0	5.0	47.0	24.75	0.21	62	0.18	67

⁽¹⁾ Exterior Cladding with Blue Board Type GM-DH1IR and internal cladding with 2 layers of Technogips Pro Plasterboard Type A

⁽²⁾ Calculations based on insulation material: FABRIC 0.037 (λ) = 0,037 - mineral glass wool, internal side and Mineral Stone Wool ROCK Contact (λ) = 0,034 - ETICS Insulation

⁽³⁾ To prevent moisture and condensation, it is recommended to use vapor control layer.

⁽⁴⁾ Profiles manufactured in acc. with EN 14195. Class of protection against corrosion acc. to EN ISO 12944-2: Class C4

⁽⁵⁾ ETICS Dowels have point thermal conductivity 0,002 W/K

⁽⁶⁾ Metal studs are anchored in the concrete slab with angles for UA

Technogips Pro APEX® Venta

Exterior walls Technogips Pro with Blue Board for ventilated façades

Exterior walls Technogips Pro with Blue Board for ventilated façades are simple and quick to design and install. A substructure of specially selected metal profiles is built-in the load-bearing construction, the cavity between profiles is filled with mineral wool to provide the necessary thermal and acoustic insulation, the substructure is then cladded with plasterboard from inside and Blue Board on the outside. As a final exterior shielding, Technogips Pro APEX® Venta is completed with additional exterior cladding for ventilated façades. Due to the simple, easy and quick installation process, APEX® Venta becomes increasingly popular in the pursue of improved thermal and acoustic performance, and overall energy efficient buildings.

Advantages:

- Easy and quick renovation of old, and insulation of new buildings
- Energy Efficiency
- Excellent thermal insulation according to the highest standards
- Highest acoustic insulation properties
- Shielding from harsh weather conditions
- Highly technological building materials
- Design freedom due to the thinner walls required
- Low weight of the exterior walls
- Quick, simple and easy installation

Easy, quick, cost-efficient renovation

Due to the quick, simple and easy installation method, the systems Technogips Pro APEX® Venta for ventilated façades reduce significantly labour cost and construction time.

Every component of the system is lightweight, which allows handling and installation without or with reduced need of heavy duty and lifting equipment. Also logistics and transportation costs are reduced.

Highest Thermal Performance

With thinner façade walls, Technogips Pro APEX® Venta with Blue Board offer better thermal resistance. Meanwhile thickness of the insulation layer can be easily increased or reduced to achieve optimal performance for each project.



EXTERIOR WALLS

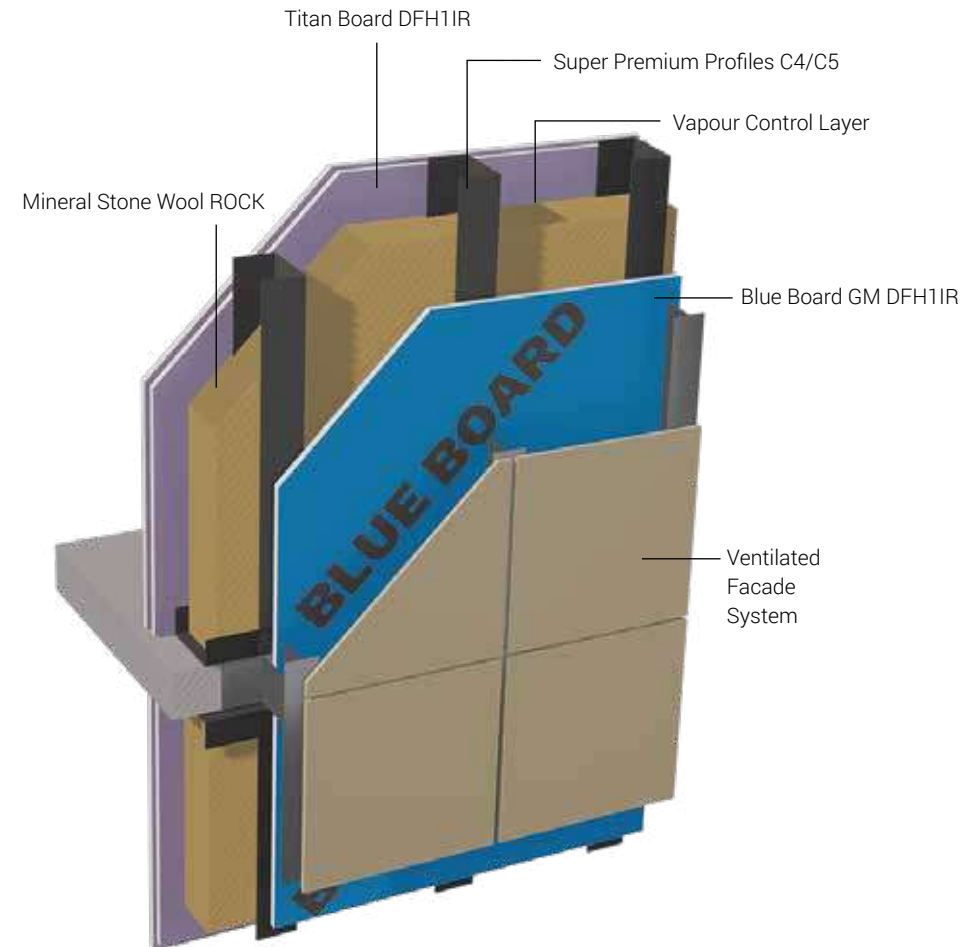
Technogips Pro APEX® W1-1 VENTA

Why Exterior Walls For Ventilated Façades Technogips Pro with Blue Board?

- Technogips Pro APEX® Venta with Blue Board can be installed at mostly any weather, almost all year around, no matter the season
- Exterior drywall systems Technogips Pro with Blue Board comply with the highest requirements for sustainable, safe and healthy environment, air quality comfort and microclimate with highest parameters, throughout the year due to the vapour permeable qualities of the system, breathable gypsum boards and excellent insulation
- Ventilated façades with Blue Board are resistant to rain, snow, UV rays etc., whilst allowing accidentally trapped and condensed water to drain easily
- Ventilated façades with Blue Board offer modern and innovative methods for building structures complying with the strictest regulations for sustainability and energy efficiency.
- Design freedom - for exterior cladding of the systems could be used several different alternatives: glass, aluminum, cement-fiber boards PERMABASE, natural stone, wood, etc. to meet even the most complex and demanding project needs.
- Insulation materials retain their performance and thermal, acoustic and fire protective qualities for longer periods of time due to the good working conditions (weather shielding and excellent ventilation) within the layers of the system.
- Ventilated façades with Blue Board are rather quick and easy to repair and maintain
- Ventilated façades with Blue Board contribute to seismic safety of the building due to their light weight and flexibility.

Sustainable construction, healthy and safe environment

Blue Board plays a key role in building a healthy, safe and comfortable space for living, work, education and creativity. This is possible with Technogips Pro ventilated façades with Blue Board because they contribute to the air quality in the premisses and protect the the construction materials for a long period of time, keeping them safe from moisture and condensation. The two-layer structure of the system allows constant air circulation and water drainage, minimizing the effects of trapped moisture and prevents moulds and mildew formation, as well as rothing.



I. Preliminary metal structure design recommendations based on the wind load:

System Technogips Pro W1-1 VENTA							
Metal Structure			Recommended Height	Insulation Material	Technical Parameters		
Type	Thickness [mm]	Axial distance between studs [mm]	Wall Height [m]	Mineral Wool Internal Side [cm]	Wall Thickness [cm]	UD value [W/m²K]	Rw [dB]
	CW 50	0.60	600	5.0	12.50	0.59	47
			400				
			300				
	CW 75	0.60	600	7.5	17.25	0.42	51
			400				
			300				
	CW 100	0.60	600	10.0	19.75	0.33	54
			400				
			300				
	CW 125	0.60	600	12.5	22.25	0.27	56
			400				
			300				
	CW 150	0.60	600	15.0	24.25	0.23	57
			400				
			300				

⁽¹⁾ Exterior Cladding with Blue Board Type GM-DFH1IR and internal cladding with 2 layers of Technogips Pro Plasterboard Type A

⁽²⁾ Calculations based on insulation material: FABRIC 0.037 (λ) = 0,037 - mineral glass wool

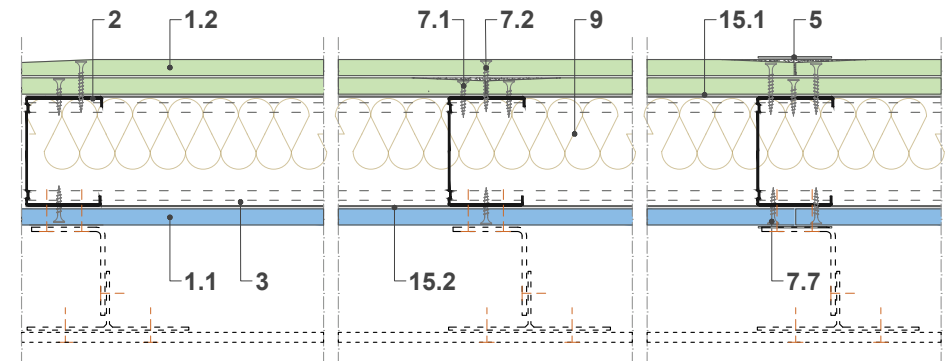
⁽³⁾ To prevent moisture and condensation, it is recommended to use vapor control layer.

⁽⁴⁾ Profiles manufactured in acc. with EN 14195. Class of protection against corrosion acc. to EN ISO 12944-2: Class C4

⁽⁵⁾ Metal studs are anchored in the concrete slab with angles for UA

⁽⁶⁾ Calculations based on wall weight [43 kg/m²]

⁽⁷⁾ Exterior cladding for ventilated façade is anchored in the load-bearing structure of the building



CERTIFIED SYSTEM COMPONENTS TECHNOGIPS PRO

1.1 Blue Board Type GM DFH1IR	7.5 C5 Self-drilling Screw TEX LB 4.2 x 13 mm	8. Ceiling Anchor	14.2 Reinforcing Mesh
2. Super Premium Profile C4/C5 CW	7.7 Exterior Pro Screw 4.2 x 25 mm	9. Mineral Wool	14.3 Exterior Primer
3. Super Premium Profile C4/C5 UW	7.8 Exterior Pro Screw 4.2 x 39 mm	14.1 Cement Based Render Finish	14.4 Mineral Based Plaster

Technogips Pro APEX® Shield

Exterio Wall Lining Systems Technogips Pro with Blue Board

Exterior linings Technogips Pro with Blue Board and ETICS:

Exterior walls with Blue Board are simple and quick to design and install, creating smooth, stable, even surface, perfect substrate for ETICS - External Thermal Insulation Composite System. Substructure of CW or UA metal profiles is anchored to existing exterior wall, the cavity between the studs is filled with mineral wool, providing the required thermal and acoustic insulation, the substructure then is cladded with Blue Board. The exposed to exterior side of Blue Board is subsequently finished with EPS or mineral wool to improve even further the performance of the system.

Advantages:

- Easy and fast renovation of existing or newly built buildings
- Energy efficiency
- Excellent thermal performance
- Excellent sound insulation
- Weather shielding and protection
- Highly technological products
- Design freedom due to the thinner walls
- Aesthetics
- Easy, simple and quick installation

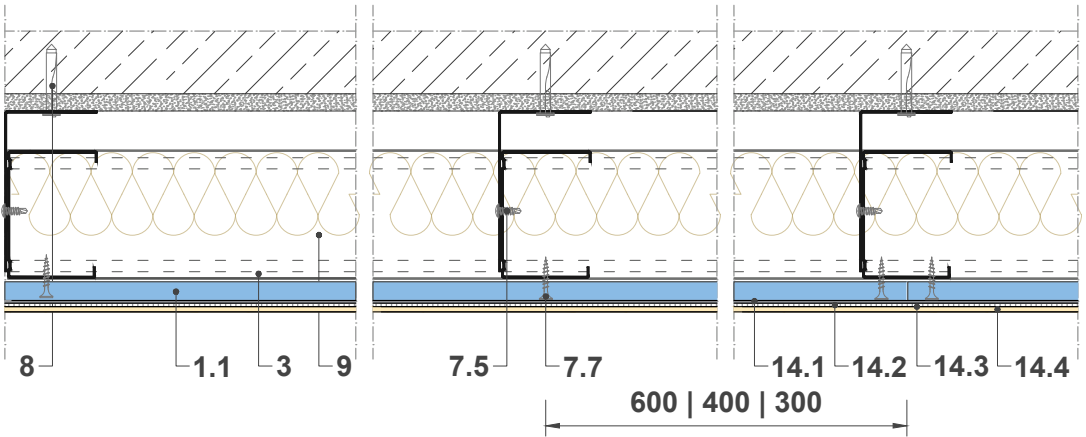
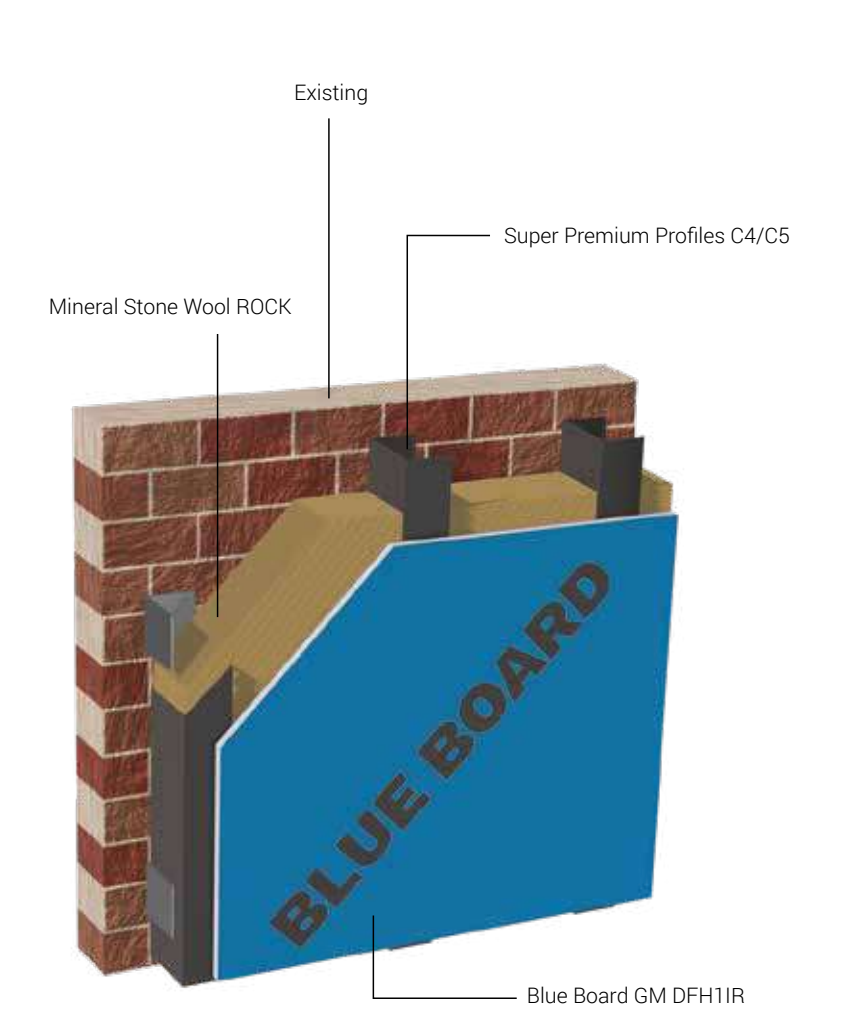
Easy and quick renovation:

Buildings designed and constructed with traditional methods with concrete, stone and brick masonry exterior walls often have coarse and uneven surface before application of finishing decorative layer, requiring larger consumption of adhesive composition for leveling and installing the insulation material. This leads to increased labour and building material cost as well as prolonged building period. Blue Board provides perfectly smooth and even substrate for ETICS, installation is fast and simple, preventing thermal bridges formation.



EXTERIOR SHAFTS

Technogips Pro APEX® S1-1 SHIELD



Profile		Permissible Heights [m]
Metal Gauge 0.6 [mm]	Axial Distance [mm]	Load Class 0.50 kN/m²
CW 75	300	2.60
	400	3.20
CW 100	400	2.90
	600	2.50
CW 125	300	3.80
	400	3.40
CW 150	600	3.00
	300	4.30
CW 150	400	3.90
	600	3.30

CERTIFIED SYSTEM COMPONENTS TECHNOGIPS PRO

1.1 Blue Board Type GM DFH1IR	7.5 C5 Self-drilling Screw TEX LB 4.2 x 13 mm	8. Ceiling Anchor	14.2 Reinforcing Mesh
2. Super Premium Profile C4/C5 CW	7.7 Exterior Pro Screw 4.2 x 25 mm	9. Mineral Wool	14.3 Exterior Primer
3. Super Premium Profile C4/C5 UW	7.8 Exterior Pro Screw 4.2 x 39 mm	14.1 Cement Based Render Finish	14.4 Mineral Based Plaster

Technogips Pro APEX® Soffit

Exterior ceilings and soffits Technogips Pro with Blue Board

Exterior ceiling with Blue Board are simple and quick to design and install, creating smooth, stable, even surface, sealed with cement render and finished with plaster for exterior application providing both durability and aesthetics. The system consists of substructure of specially selected metal profiles, suspenders and fasteners with high class of protection against corrosion. The cavity between the channels is filled with mineral wool, providing the required thermal and acoustic insulation, the substructure then is clad with Blue Board. The exposed to exterior side of the Blue Board is subsequently coated with cement render and reinforcing mesh, second layer of cement render, suitable for exterior primer and finally a coat of exterior plaster.



Advantages:

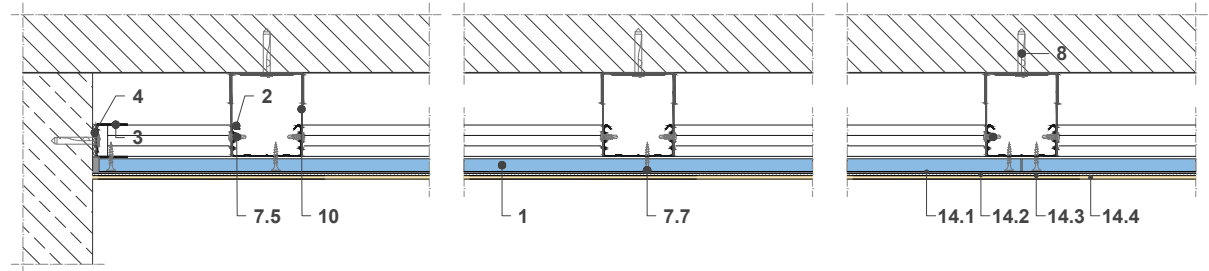
- Quick and easy installation
- Cost efficiency
- Excellent thermal performance
- Excellent sound insulation
- Protection from harsh weather conditions
- Highly technological materials
- Freedom of design
- Low self weight of the systems

Application:

- Exterior suspended ceilings
- Soffits
- Exposed ceilings
- Eaves

EXTERIOR CEILINGS

Technogips Pro APEX® C1-1 Soffit



APEX® C1-1

Board Type:
Blue Board GM-DFH11R

Cladding 1 x 12.5 mm
Suspender @ 750 mm
Carrying Channel @ 1000 mm
Furring Channel @ 300 mm

APEX® C1-2

Board Type:
Blue Board GM-DFH11R

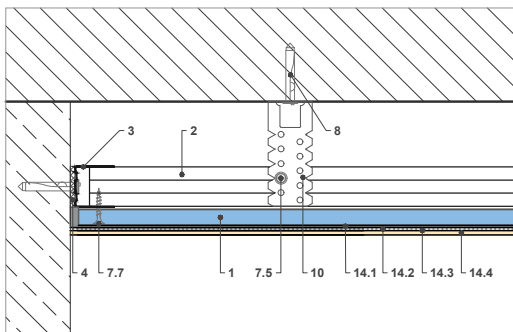
Cladding 2 x 12.5 mm
Suspender @ 750 mm
Carrying Channel @ 1000 mm
Furring Channel @ 300 mm

Material Consumption ⁽¹⁾ per 1 m ²			Systems	
			C1-1 1x12.5	C1-2 2x12.5
1	Technogips Pro Blue Board GM-DFH11R	m ²	1.0	2.0
2	CD Super Premium Profile C4 or C5 / 0.6 mm	m'	4.5	4.5
3	UD Super Premium Profile C4 or C5 / 0.6 mm	m'	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4
7.5	C5 Super Premium Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	4.0	4.0
7.7	Exterior Pro Screw 4.2 x 25 mm	pcs	25.0	13.0
7.8	Exterior Pro Screw 4.2 x 39 mm	pcs	-	25.0
8	Ceiling Anchor @ 500 mm	pcs	2.4	2.4
9	C5 Super Premium CD Crosswise One-sided Connector	pcs	7.6	7.6
10	C5 Super Premium Adjusting Bracket C5 Super Premium Nonius Hanger	pcs	1.6	1.6
11	C5 Super Premium CD Longitudinal Connector	pcs	0.2	0.2
12	Mineral Glass Wool FABRIC PRO ⁽²⁾	m ²	1.0	1.0
14.1	Cement Based Render Finish	kg	1.0	1.0
14.2	Reinforcing Mesh	m ²	1.1	1.1
14.3	Exterior Primer	l	0.2	0.2
14.4	Exterior Mineral Based Plaster	kg	2.5	2.5

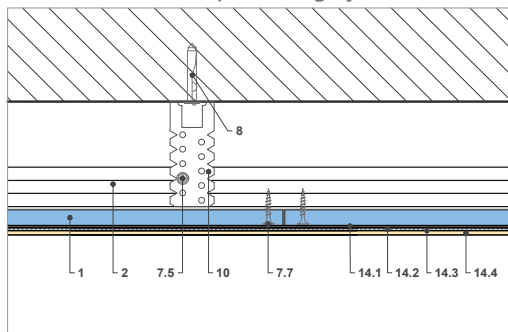
⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 100 m² (10 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

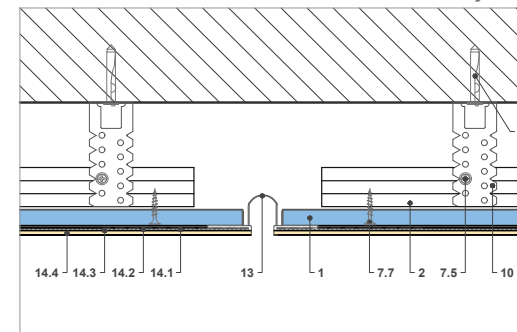
L01 Connection to exterior concrete wall



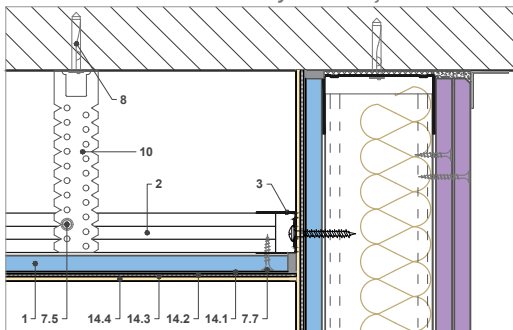
L03 Square edge joint



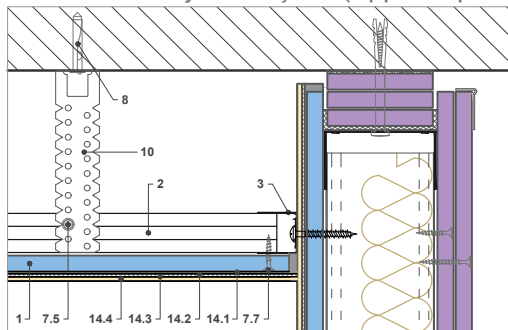
L04 Dilatation joint



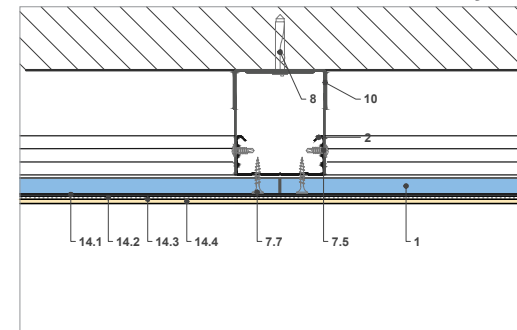
L02.1 Connection to drywall façade with Blue Board



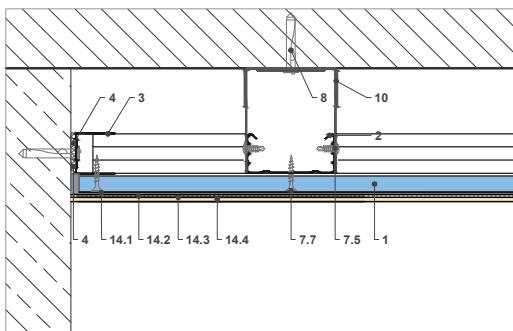
L02.2 Connection to drywall façade (Upper Expansion Joint)



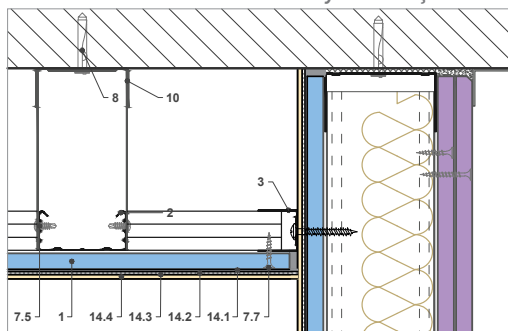
C03 Butt joint



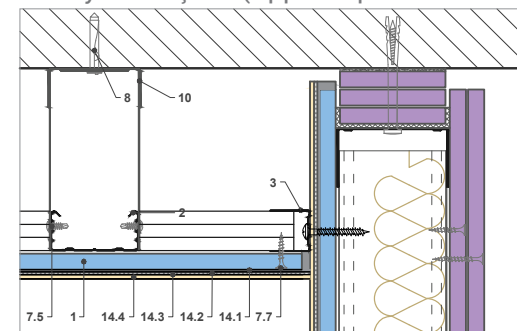
C01 Connection to exterior concrete wall



C02.1 Connection to drywall façade



C02.2 Connection to drywall façade (Upper Expansion Joint)

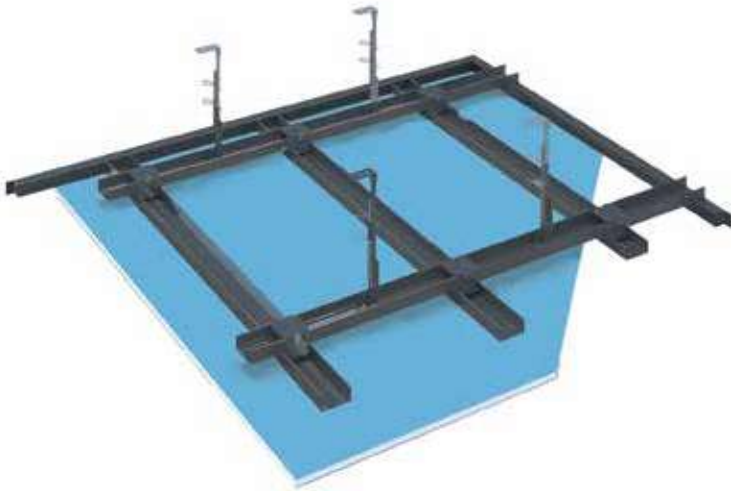


CERTIFIED SYSTEM COMPONENTS Technogips Pro

1. Blue Board Type GM DFH1IR	7.5. C5 Super Premium Self-drilling Screw TEX LB 4.2 x 13 mm	9. C5 Super Premium CD Crosswise One-sided Connector	14.1. Cement Based Render
2. CD Super Premium Profile C4/C5	7.7. Exterior Pro Screw SN 4.2 x 25 mm	10. C5 Super Premium Suspender	14.2. Reinforcing Mesh
3. UD Super Premium Profile C4/C5	7.8. Exterior Pro Screw SN 4.2 x 39 mm	11. C5 Super Premium CD Longitudinal Connector	14.3. Exterior Primer
4. Acoustic Tape	8. Ceiling Anchor 6 x 40, 60, 80 mm	13. PVC Expansion Joint Profile	14.4. Mineral Based Plaster

EXTERIOR CEILINGS

Technogips Pro APEX® C2 Soffit



APEX® C2-1

Board Type:
Blue Board GM-DFH11R

Cladding 1 x 12.5 mm
Suspender @ 750 mm
Carrying Channel @ 1000 mm
Furring Channel @ 300 mm

APEX® C2-2 - Fire Resistance Class EI60

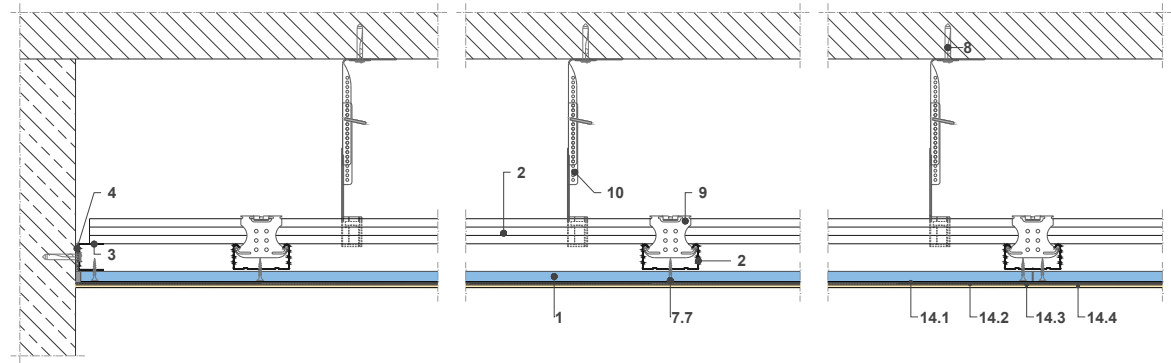
Board Type:
Blue Board GM-DFH11R

Cladding 2 x 15 mm
Suspender @ 700 mm
Carrying Channel @ 700 mm
Furring Channel @ 300 mm

APEX® C2-3 - Fire Resistance Class EI90

Board Type:
Blue Board GM-DFH11R

Cladding 2 x 15 mm
Suspender @ 600 mm
Carrying Channel @ 600 mm
Furring Channel @ 300 mm

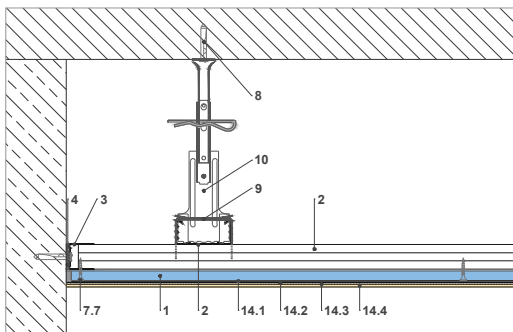


Material Consumption ⁽¹⁾ per 1 m ²			Systems		
			C2-1 1x12.5	C2-2 2x15	C2-3 2x15
1	Technogips Pro Blue Board GM-DFH11R	m ²	1.0	2.0	3.0
2	CD Super Premium Profile C4 or C5 / 0.6 mm	m'	4.5	5.0	5.2
3	UD Super Premium Profile C4 or C5 / 0.6 mm	m'	0.4	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4	0.4
7.5	C5 Super Premium Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	3.8	5.6	7.3
7.7	Exterior Pro Screw 4.2 x 25 mm	pcs	25.0	13.0	13.0
	Exterior Pro Screw 4.2 x 39 mm	pcs	-	25.0	13.0
	Exterior Pro Screw 4.2 x 55 mm	pcs	-	-	25.0
8	Ceiling Anchor @ 500 mm	pcs	2.4	3.2	4.0
9	C5 Super Premium CD Crosswise Connector	pcs	3.8	5.2	6.1
10	C5 Super Premium Adjusting Bracket C5 Super Premium Nonius Hanger	pcs	1.6	2.3	3.1
11	C5 Super Premium CD Longitudinal Connector	pcs	0.2	0.2	0.3
12	Mineral Glass Wool FABRIC PRO ⁽²⁾	m ²	1.0	1.0	1.0
14.1	Cement Based Render Finish	kg	1.0	1.0	1.0
14.2	Reinforcing Mesh	m ²	1.1	1.1	1.1
14.3	Exterior Primer	l	0.2	0.2	0.2
14.4	Exterior Mineral Based Plaster	kg	2.5	2.5	2.5

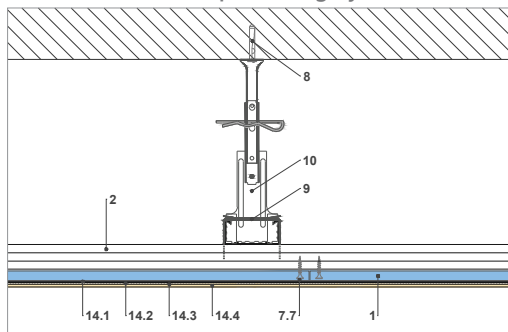
⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 100 m² (10 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

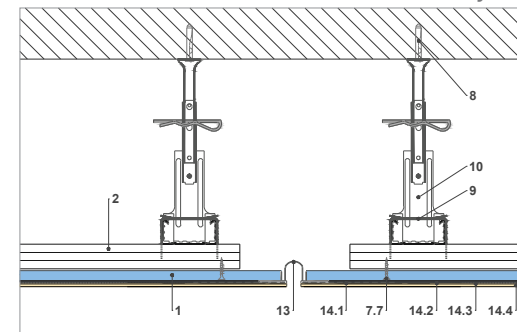
L01 Connection to exterior concrete wall



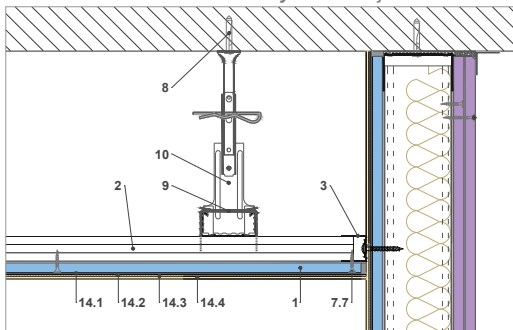
L03 Square edge joint



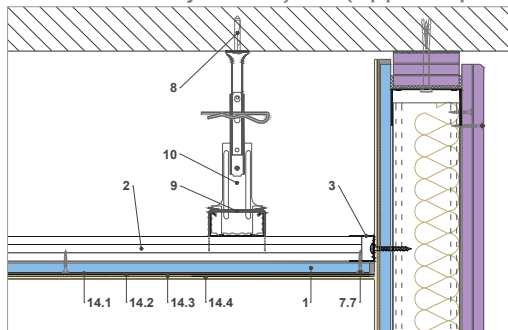
L04 Dilatation joint



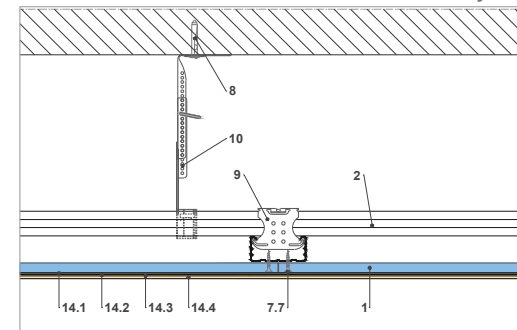
L02.1 Connection to drywall façade



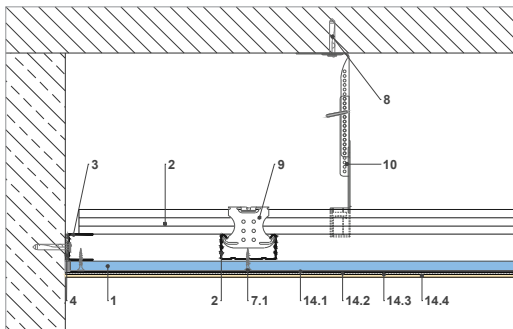
L02.2 Connection to drywall façade (Upper Expansion Joint)



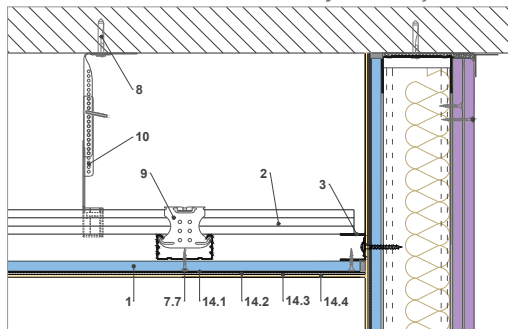
C03 Butt joint



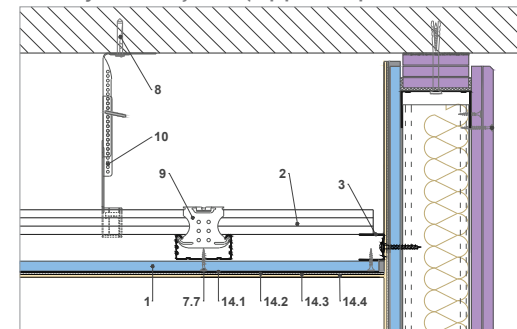
C01 Connection to exterior concrete wall



C02.1 Connection to drywall façade



C02.2 Connection to drywall façade (Upper Expansion Joint)



CERTIFIED SYSTEM COMPONENTS Technogips Pro

- 1. Blue Board Type GM DFH1IR
- 2. CD Super Premium Profile C4/C5
- 3. UD Super Premium Profile C4/C5
- 4. Acoustic Tape

- 7.5. C5 Super Premium Self-drilling Screw TEX LB 4.2 x 13 mm
- 7.7. Exterior Pro Screw SN 4.2 x 25 mm
- 7.8. Exterior Pro Screw SN 4.2 x 39 mm
- 8. Ceiling Anchor 6 x 40, 60, 80 mm

- 9. C5 Super Premium CD Cross Connector
- 10. C5 Super Premium Suspender
- 11. C5 Super Premium CD Longitudinal Connector
- 13. PVC Expansion Joint Profile

- 14.1. Cement Based Render
- 14.2. Reinforcing Mesh
- 14.3. Exterior Primer
- 14.4. Mineral Based Plaster

EXTERIOR CEILINGS

Technogips Pro APEX® C2 UA Soffit



APEX® C2-1 UA

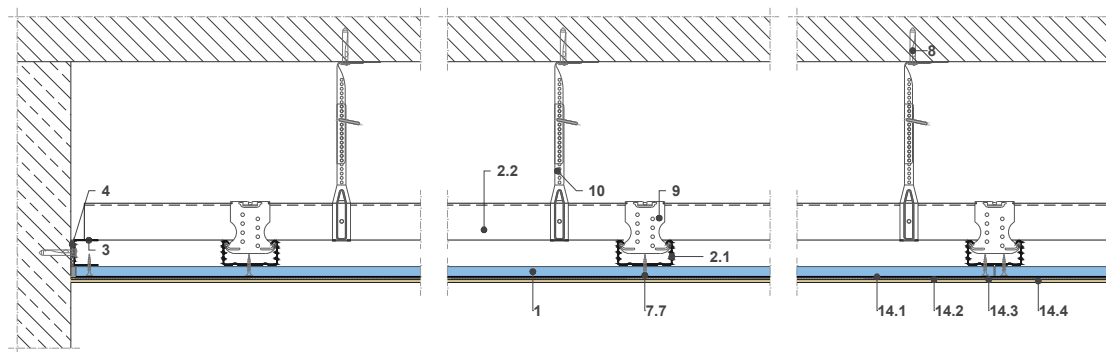
Board Type:
Blue Board GM-DFH1IR

Cladding 1 x 12.5 mm
Suspender @ 750 mm
Carrying Channel @ 1000 mm
Furring Channel @ 300 mm

APEX® C2-2 UA

Board Type:
Blue Board GM-DFH1IR

Cladding 2 x 12.5 mm
Suspender @ 700 mm
Carrying Channel @ 700 mm
Furring Channel @ 300 mm

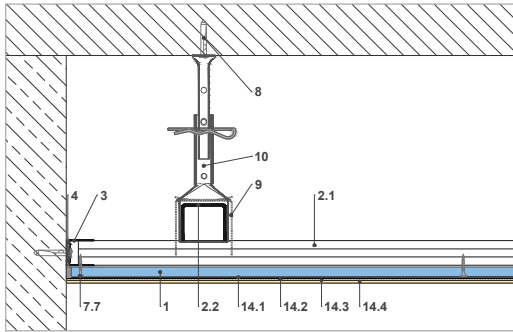


Material Consumption ⁽¹⁾ per 1 m²			Systems	
			C2-1 1x12.5	C2-2 2x12.5
1	Technogips Pro Blue Board GM-DFH1IR	m²	1.0	2.0
2.1	CD Super Premium Profile C4 or C5 / 0.6 mm	m'	3.4	3.4
2.2	UA Super Premium Profile C4 or C5 / 2.0 mm	m'	1.1	1.5
3	UD Super Premium Profile C4 or C5 / 0.6 mm	m'	0.4	0.4
4	Acoustic Tape @ all peripheral profiles	m'	0.4	0.4
7.5	C5 Super Premium Self-drilling Screw TEX LB 4.2 x 13 mm	pcs	3.8	5.6
7.7	Exterior Pro Screw 4.2 x 25 mm	pcs	25.0	13.0
7.8	Exterior Pro Screw 4.2 x 39 mm	pcs	-	25.0
8	Ceiling Anchor @ 500 mm	pcs	2.4	3.2
9	C5 Super Premium CD Crosswise Connector	pcs	3.8	5.2
10	C5 Super Premium Adjusting Bracket C5 Super Premium Nonius Hanger	pcs	1.6	2.3
11	C5 Super Premium CD Longitudinal Connector	pcs	0.2	0.2
12	Mineral Glass Wool FABRIC PRO ⁽²⁾	m²	1.0	1.0
14.1	Cement Based Render Finish	kg	1.0	1.0
14.2	Reinforcing Mesh	m²	1.1	1.1
14.3	Exterior Primer	l	0.2	0.2
14.4	Exterior Mineral Based Plaster	kg	2.5	2.5

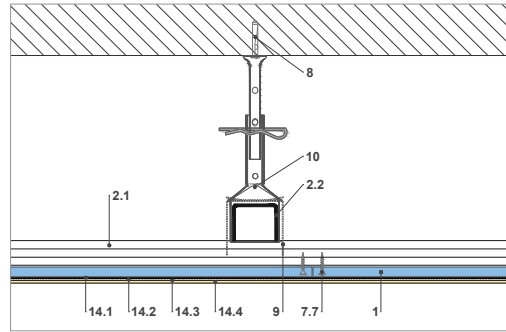
⁽¹⁾ The consumption rates are based on ceiling without curves, openings and changes in the geometry, surface area of 100 m² (10 m x 10 m), without accounting for the waste, scrapes and losses.

⁽²⁾ Depending on the requirements of the project for insulation material could be used Rock Light, Rock Vent, Rock Acoustic

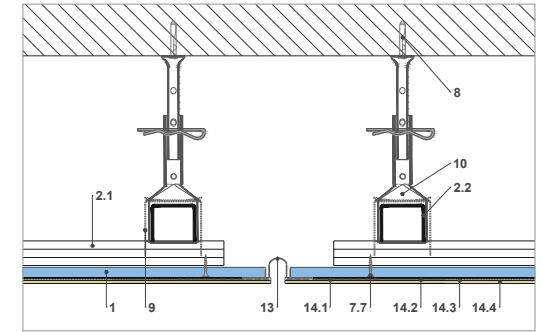
L01 Connection to exterior concrete wall



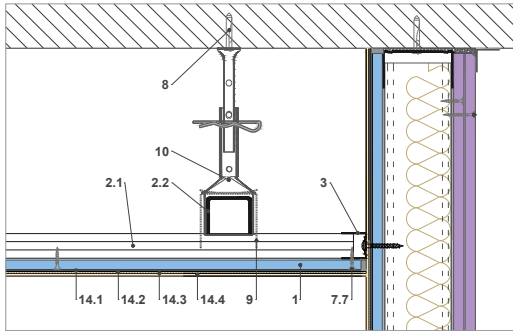
L03 Square edge joint



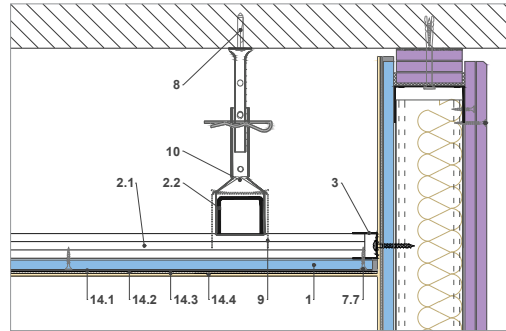
L04 Dilatation joint



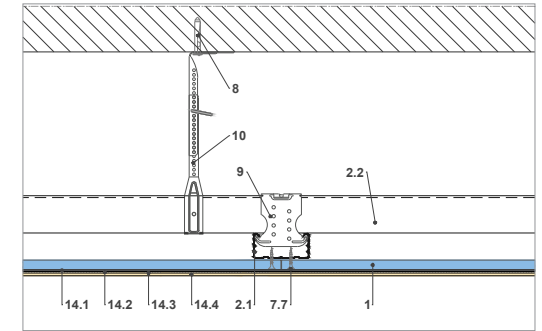
L02.1 Connection to drywall façade with Blue Board



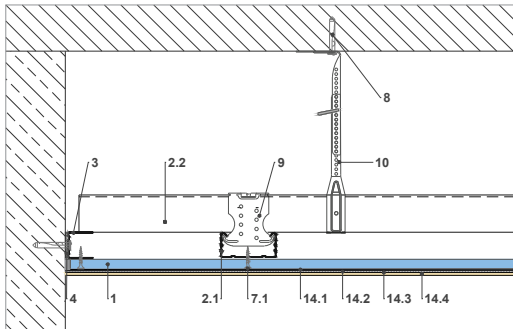
L02.2 Connection to drywall façade (Upper Expansion Joint)



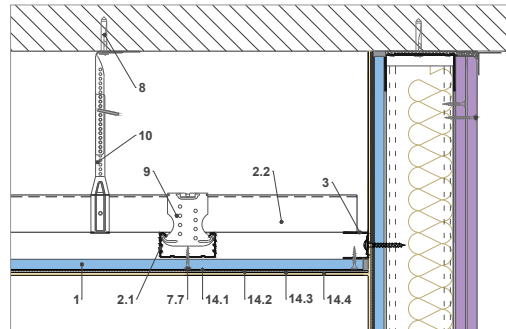
C03 Butt joint



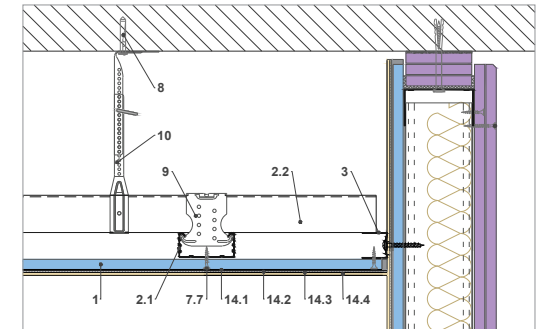
C01 Connection to exterior concrete wall



C02.1 Connection to drywall façade



C02.2 Connection to drywall façade (Upper Expansion Joint)



CERTIFIED SYSTEM COMPONENTS Technogips Pro

- 1. Blue Board Type GM DFH1IR
- 2.1 CD Super Premium Profile C4/C5
- 2.2 UA Super Premium Profile C4/C5
- 3. UD Super Premium Profile C4/C5

- 4. Acoustic Tape
- 7.5. C5 Super Premium Self-drilling Screw TEX LB 4.2 x 13 mm
- 7.7. Exterior Pro Screw SN 4.2 x 25 / 39 mm
- 8. Ceiling Anchor 6 x 40, 60, 80 mm

- 9. C5 Super Premium CD-UA Cross Connector
- 10. C5 Super Premium Suspender
- 11. C5 Super Premium CD Longitudinal Connector
- 13. PVC Expansion Joint Profile

- 14.1. Cement Based Render
- 14.2. Reinforcing Mesh
- 14.3. Exterior Primer
- 14.4. Mineral Based Plaster

PREPARATION:

- Carry Blue Board upright along the length of the fabric edges
- Blue Board should be stored on pallets, protected from moisture and weathering conditions until it is time to be installed. In case of excessive moisture or wetting of the boards, their complete drying should be ensured before installation.
- The boards are cut in the desired shape and size with a standard utility knife, similar to regular plasterboard - the face is scored, board snapped and then the rear side mesh is cut.
- Before installation begins, all elements should be clean and structure should be well leveled
- Use personal protective equipment when working with Blue Board



METAL STRUCTURE INSTALLATION

Exterior Walls:

Installation begins with a substructure of Super Premium Profiles CW / UW, with metal gauge 0.6 mm and class of protection against corrosion C4 or C5 depending on the environmental conditions and climate. To each of the peripheral profiles should be applied Technogips Pro Acoustic Tape with the purpose of both improving sound insulation and preventing thermal bridges. Peripheral CW/UW profiles are anchored to the surrounding load bearing construction with Ceiling Anchors 6x40/60 spaced at 500 mm maximum axial distance. Metal profiles should be cut approximately 1 cm shorter than wall height and must be fixed at least at 3 points to the surrounding structural members.

Vertical studs - CW profiles are placed inside UW runners at each 600 mm distance. In case of higher expected wind loads the distance should be decreased to 400 mm or 300 mm. The lower end of the CW profile is connected with UA angle, anchored with Ceiling anchor 6 mm to the reinforced concrete floor. Fixing the CW profile to the UA angle with at least 2 Self-drilling Screws TEX LB 4.2 x 13 mm.

The cavity between profiles is filled with suitable mineral insulation according to the specific requirements of the project. In the corners of the building the spacing of the profiles could be decreased as typically wind velocity is higher at such zones.

Door and window frames are formed with UA profiles. Connecting UA and UW profiles with UA angle and UA mounting bolts. For structures higher than 25 m, the frame should be designed according to the applicable standards and with total deflection constrictions of $f=l/500$, taking in consideration the wind loads, height and geometrical shape of the building.

Exterior Ceilings and Soffits:

Installation begins with a substructure of Super Premium Profiles CD 60/ UD 27 and suitable suspenders with class of protection against corrosion C4 or C5 depending on the environmental conditions and climate.

Anchoring the peripheral UD 27 profiles to the surrounding structure with Ceiling Anchor 6x40/60 at each 500 mm axial distance or less.

Each peripheral channel should be insulated with Acoustic Tape Technogips Pro for both improving sound insulation and preventing thermal bridges.

Axial distance between carrying CD 60 Profiles - 750 mm, starting at 150 mm distance from the main load bearing structure.

Recommended axial distance between furring CD 60 profiles - 400 mm. Starting with the first furring channel at 100 mm from the main load bearing structure.

Axial distance between suspenders - 600 mm. First suspender at 250 mm from the main load bearing structure.

Mounting to all elements to the main structure with Ceiling Anchor 6x40/60.

* The design example above is based on wind load 0.50 kN/m²

INTERIOR CLADDING INSTALLATION

Internal side of the metal substructure is cladded with two layers of plasterboard Technogips Pro with water resistance class minimum H2.

The first layer of the cladding is mounted with Drywall Screws TN 3.5x25 in case of CW/ UW Profiles and Self-drilling Screws TB 3.5x25 in case of UA Profiles at 500 mm.

Second layer of the cladding is mounted with Drywall Screws TN 3.5x35 in case of CW/ UW Profiles and Self-drilling Screws TB 3.5x35 in case of UA Profiles at 250 mm.

All joints between boards on the first and second layer cladding, screw heads and all peripheral joints are processed with gypsum based joint filler FUGA.

EXTERIOR CLADDING INSTALLATION

Blue Board Type GM-DFH1IR as exterior sheating is sufficient to protect the building. In areas with more harsh and humid climate, we recommend installation of vapour barrier layer to provide additional waterproofing.

Exterior final layer of Blue Board at ground level should be protected with waterproofing and drainage from atmospheric water or should be installed above a skirting board with height min. 300 mm.

Blue Board Type GM-DFH1IR is installed vertically or horizontally for building heights up to 10 m and horizontally for higher buildings.

Fixing Blue Board sheating to vertical studs with suitable fasteners should be at max. 150 mm axial distance.

FASTENERS

- Blue Board Screw TN 3.9 x 30 mm Super Premium C5
- Exterior Pro Screw 4.2 x 25/39/55 mm
- Exterior Pro Plus Screw 4.2 x 25/39/55 mm
- Drywall Screw TN 3.5 x 25/35 mm Super Premium C5
- Self-drilling Screw TB 3.5 x 25/35 mm Super Premium C5

WINDOW FRAME OPENINGS

Windows and doors are directly installed in the frame openings formed with UA profiles, in accordance with the specific requirements of the manufacturers. They should be installed before insulation layer and interior cladding.

ADDITIONAL INFORMATION

In case there are any airtightness requirements, all joints are filled with PU adhesive for facade application or with silicone mastic sealant.

Cladding with Blue Board does not constitute a finished surface! Blue Board and the finished joints are resistant to normal weather conditions for a period of 12 months but are not resistant to direct contact with water for long periods of time. Rainwater should be directed away from the lining.

When the finishing coat cannot be applied immediately after Blue Board is installed, it is required that the joints be filled with elastic cement-based adhesive or render mortar and reinforced with glass-fibre joint tape with a width of at least 100 mm. This creates a hydrophobic barrier which will protect the boards from the weather conditions for 6 months.

When Blue Board is used for angled facade walls, this part of the wall should be temporarily protected from atmospheric conditions by using a waterproof barrier before applying the finishing cladding.

VAPOUR BARRIERS:

Vapour nonpermeable membrane is intended to protect the insulation layer from condensation entering from interior side. This layer is installed on the interior side of the exterior wall, e.g. between the heated premisses and the insulation layer.

Vapour nonpermeable membrane is installed in horizontal strips starting from bottom to top with adhesive tape. Overlapping horizontally 15 cm and vertically - 10 cm.

The membrane should exceed the border of the drywall exterior system with minimum of 5 cm which is glued for the load bearing concrete structure suitable adhesive.

In case of tearing, punctures and openings, they must all be glued and repaired with adhesive tape.



JOINTS

Vertical joints between boards should be staggered with at least the axial distance between two vertical studs. Horizontal joints also should be staggered.

Between each 2 boards should be allowed a distance of 2-3 mm, and between Blue Board and surrounding structure 15 mm gap.

Expansion or dilatation joints should be installed at each 15 m.

EXTERIOR SURFACE FINISH

Joint treatment depends on the application of Blue Board. When direct render finish is applied immediately after Blue Board is installed, it is not required to treat the joints in any specific ways. The entire surface is covered with a layer of cement based plaster or adhesive (layer thickness 3-5 mm) and is reinforced with reinforcing mesh, the mesh should overlap with the min. of 100 mm.

In case the surface is not smooth enough, a second layer of cement based render finish could be applied with thickness not exceeding thickness of 2 mm. At that stage the required finishing corner beads, expansion joint profiles, edge profile with waterdrip nose etc. are installed.

Door and window frame openings are reinforced with additional pieces of mesh at an 45° angle.

After the reinforcement cement render layer is completely dry (usually 7 day after the application), the entire surface is primed with a suitable exterior primer. Following the instructions of the manufacturer and after complete drying of the primer, the exterior mineral based plaster is applied in a thin layer.

In case of ETICS application immediately after installation of the Blue Board cladding, additional processing of the joints is not required.

The entire surface of Blue Board is covered with a thin layer of cement based adhesive, according the instructions of the ETICS system used.

Insulation boards are glued to the surface and anchored preffrably to the CW profiles , fewer dowels could be applied directly to the Blue Board directly if nessecary, following the requirements set by the application pattern and height of the wall, as well as the ETICS instructions (typically 5-6 pcs/m²).

Insulation boardas are afterwards finished with cement based render and reinforced with mesh, according to the instructions of the ETICS system.

After the reinforcement cement render layer is completely dry (usually 7 day after the application), the entire surface is primed with a suitable exterior primer. Following the instructions of the manufacturer and after complete drying of the primer, the exterior mineral based plaster is applied in a thin layer.



Boards



Blue Board Type GM-DFH1IR

Premium board for facade systems using the methods of dry construction. Suitable for interior application in premises with high levels of humidity.

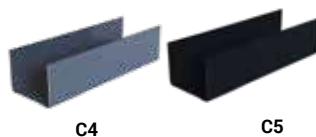
Classification acc. EN 15283-1:2008 Type GMFH1IR, acc. EN 520, Type DFH1IR

Profiles



CW Super Premium Profile C4 | C5

Premium profile with high resistance against corrosion for the construction of interior and exterior walls and wall linings.



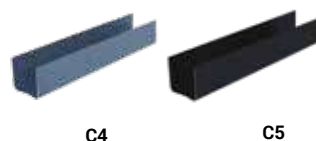
UW Super Premium Profile C4 | C5

Premium profile with high resistance against corrosion for the construction of interior and exterior walls and wall linings.



CD Super Premium Profile C4 | C5

Premium profile with high resistance against corrosion for the construction of interior and exterior suspended ceilings and linings.



UD Super Premium Profile C4 | C5

Premium profile with high resistance against corrosion for the construction of interior and exterior suspended ceilings and linings.

Accessories



Nonius Hanger Super Premium C5

Nonius hanger set (bottom part, upper part and bracket) with high resistance against corrosion for direct suspension of CD 60 profile to solid ceilings.



Adjusting Bracket Super Premium C5

Adjusting bracket with high resistance against corrosion for direct suspension of CD 60 profile to solid walls and ceilings..



CD Crosswise Connector Super Premium C5

CD cross connector with high resistance against corrosion for securing a strong cross-tie between the load carrying and fastened CD 60 profile in constructing double level suspended ceilings.



CD Longitudinal Connector Super Premium C5

Premium solution for secure longitudinal connection of CD 60 profiles in suspended ceiling structures. Special black coating for very strong level of protection against corrosion



Acoustic Tape

Self-adhesive acoustic tape for sealing the space between the peripheral profile (UD and UW) and the solid floor, ceiling or wall.

Fasteners



Blue Board Screw TN 3.9 mm Super Premium C5

Self-tapping screws with special coating, providing a very strong level of protection against corrosion. Special ribbed head and high-low thread, designed for fixing Blue Board to timber or metal profiles with metal gauge up to 0.7 mm



Drywall Screw TN 3.5 mm Super Premium C5

Self-tapping screws with special coating, providing a very strong level of protection against corrosion for fixing plasterboard to timber or metal profiles with metal gauge up to 0.7 mm.



Self-drilling Screw TB 3.5 mm Super Premium C5

Self-drilling screws with special coating, providing a very strong level of protection against corrosion for fixing plasterboard to timber or metal profiles with metal gauge up to 2.0 mm



Self-drilling Screw TEX LB 4.2 mm Super Premium C5

Self-drilling screws with special coating, providing a very strong level of protection against corrosion. Designed for connecting metal profiles or fixing Adjusting Brackets to CD60 profiles. Total thickness of joint elements up to 2.0 mm



Exterior Pro Screw SN 4.2

Specially designed self-tapping screws with premium zinc coating, guaranteeing supreme protection against corrosion, efficient and secure fixation of Blue Board to timber structures and metal profiles with thickness up to 0.7 mm



Exterior Pro Screw SB 4.2

Specially designed self-drilling screws with premium zinc coating, guaranteeing supreme protection against corrosion, efficient and secure fixation of Blue Board to timber structures and metal profiles with thickness up to 2.0 mm

Fasteners



Exterior Pro Plus Screw SN 4.2

Specially designed self-tapping screws, made of stainless steel, completely rustproofed for efficient and secure fixation of Blue Board to timber structures and metal profiles with thickness up to 0.7 mm



Exterior Pro Plus Screw SB 4.2

Specially designed self-drilling screws, made of stainless steel, completely rustproofed for efficient and secure fixation of Blue Board to timber structures and metal profiles with thickness up to 2.0 mm

Insulation



FABRIC $\lambda=0.037$ | FABRIC PRO $\lambda=0.034$

Eco-friendly mineral glass wool of new generation with excellent thermal and acoustic insulation properties
Available Thermal Conductivity $\lambda=0,037$ W/mK and $\lambda=0,034$ W/mK.



Mineral Stone Wool Rock CONTACT | CONTACT PLUS

Insulation boards for thermal and acoustic insulation, and fire protection for External Thermal Insulation Composite System (ETICS).

Available Thermal Conductivity $\lambda=0,035$ W/mK and $\lambda=0,034$ W/mK.



Mineral Stone Wool Rock Light, Vent, Acoustic

Insulation boards for thermal and acoustic insulation, and fire protection in interior walls.

sales@technogipspro.com
www.technogipspro.com

© 2025



FORMATT
BUILDING PRODUCTS