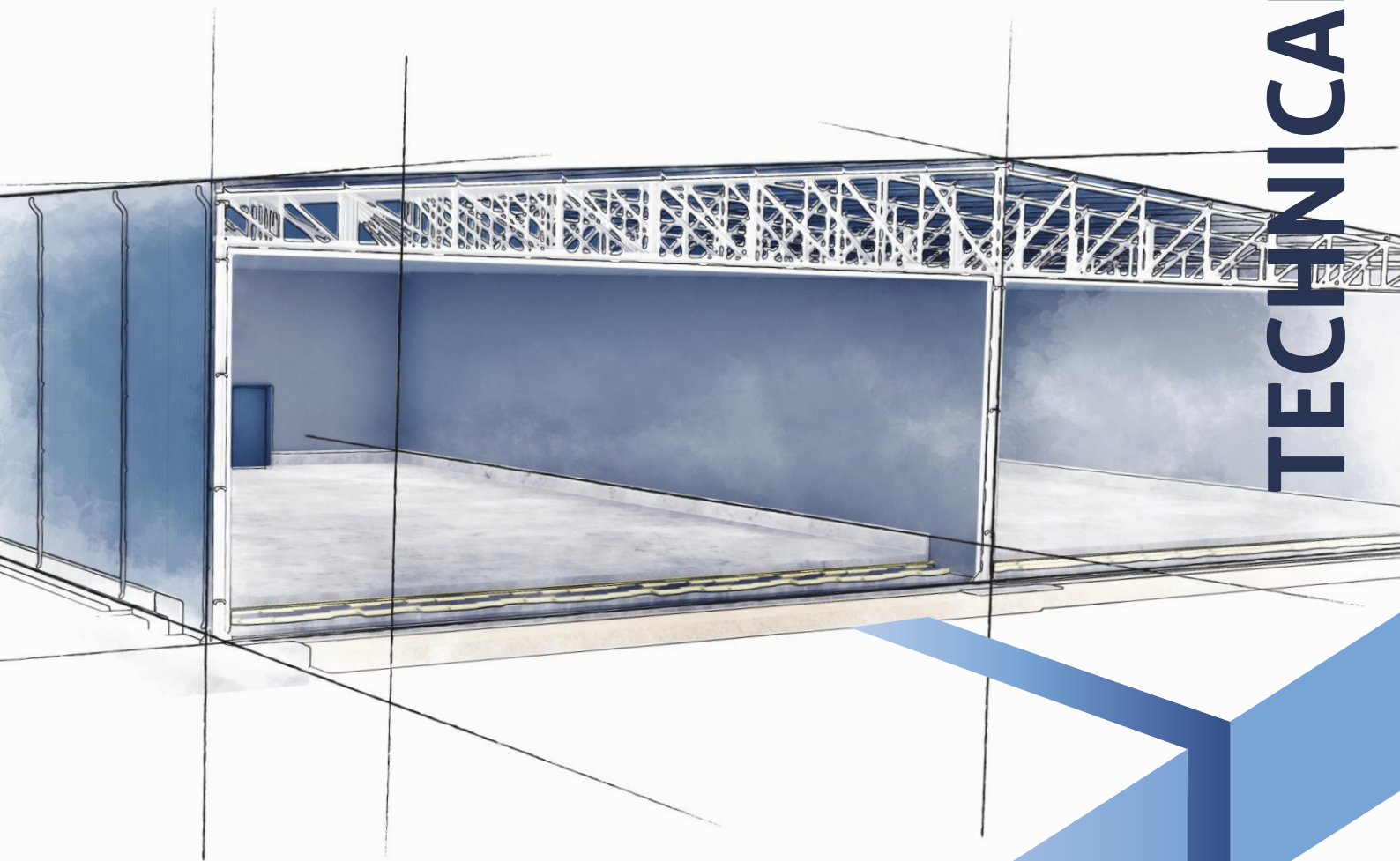




GS MW S, CH / GS MW U

TECHNICAL CATALOGUE



CONTENTS

I. TECHNICAL SOLUTIONS CATALOGUE – GENERAL INFORMATION

Introduction	003
About the company	003
Products	003
Structure of panels	003
Certificates	003
Profilations	005
Production program	006
Guidelines for transportation	006
Guidelines for mounting	006
Technical support	006

II. TECHNICAL SPECIFICATIONS OF PRODUCTS:

1. GS MW S / GS MW CH wall sandwich panel (visible connector)

Application	007
Physical properties	007
Technical parameters of wool core	007
GS MW S: panel manufacturing program: panel thicknesses, profiles of outer and inner facing	008-009
Table of allowed loads for GS MW S / GS MW CH sandwich panel	009-010
Packing	010
Selected details of cladding made of GS MW S sandwich panels	011-038

Wall sandwich panel GS MW U (hidden connector)

Application	039
Physical properties	039
Technical parameters of wool core	039
Packing	039
GS MW U panel manufacturing program: panel thicknesses, profiles of outer and inner facing	040
Table of allowed loads for GS MW U sandwich panel	041
Selected details of cladding made of GS MW U sandwich panels	042-069

3. Sandwich panel installation. Damage free installation of sandwich panels with VIAVAC vacuum lifters	070-081
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Instructions for connecting GS MW with GS insPIRe	082-085
--	---------

5. Additional elements

Accessories	086
Flashings	086
Seals	086
Fasteners	086
Catalogue of flashings	087-097
Flat metal sheets	097

6. Documentation

Order form of sandwich panels	098-099
Order form of individual flashing	100-102
Notes	103-105

▷ INTRODUCTION

This publication is intended to present an assortment and technical properties of sandwich panels to our customers. With over a decade of experience and extensive knowledge we perfectly know the needs of the market. As a result, we create products and solutions that give our customers real benefits.

▷ ABOUT THE COMPANY

Gór-Stal[®] is a Polish company founded in 2003. It had originally produced and sold finished steel construction elements. The increase in demand for building materials for light industrial facilities forced co-owners to buy the line for the production of sandwich panels with a polyurethane core. It is one of the most modern and technologically advanced production lines in Europe. Gór-Stal[®] manufactures **sandwich panels** and **termPIR[®] insulating boards**. Sandwich panels are commonly used building materials for light cladding of industrial halls, warehouses, production halls and commercial buildings, offices, administrative buildings, freezers and cold storages. Since the beginning of the company's operation it has rapidly developed and extensively expanded its operations both geographically and in terms of product offerings. Gór-Stal[®] is recognized by customers in Poland, Czech Republic, Austria, Romania, Belgium, the Netherlands, Luxembourg, Great Britain, France, Germany, Estonia and the Nordic countries, Slovakia, Hungary, Ukraine, Lithuania and Latvia. We currently have two factories, one in Gorlice and the other in Bochnia, where we manufacture termPIR[®] insulation boards.

▷ PRODUCTS

Gór-Stal offers a wide range of modern wall and roof sandwich panels made of stone mineral wool. Sandwich panels consist of two steel sheet claddings and a construction and insulation core made of rock mineral wool, which allows for high fire resistance parameters. Compatibility of the locks with those made of GS insPIRe panels allows the construction of buildings with excellent thermal insulation parameters and at the same time meeting the high requirements of fire resistance. Speed and ease of assembly, possibility of carrying out the work even in difficult weather conditions, low cost of implementation and ease of wall cleaning, modernity and versatility of the system make sandwich panels the best building material. A wide range of colors and varied shape of panels profiles allow for the implementation of ambitious architectural projects. Gór-Stal[®] owes its leader position in the production of sandwich panels to high technological advancement of production lines, well-qualified team of employees and special attention to the quality of the products.

▷ STRUCTURE OF PANELS

In sandwich panels, **rock wool MiWo** with a density of **105 kg/m³ (+/-10%)** and a design thermal conductivity coefficient of **$\lambda=0,044 \text{ W/m}\cdot\text{K}$** is used as the core. The core of rock mineral wool (material with class A reaction to fire) allows to obtain high fire resistance classes of GS MW sandwich panels. Sheet metal grade **S220-S280GD DIN EN 10346** galvanized on both sides with the organic polyester lacquer with a film thickness of **25 microns** is used as cladding of sandwich panels. Due to the increased anticorrosion requirements, it is possible to make panels with metal plate dedicated for environments **C4** and **C5**, and the prevailing aggressive environments inside the buildings. It is possible to use stainless steel **1.4301** coating. Panels are protected against mechanical damage that may occur during transport or installation with a protective foil.

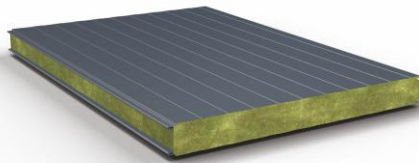
▷ CERTIFICATES

Sandwich panel have the following certificates and technical approvals:

- Quality Management System certificate,
- Type III Environmental Certificate and Declaration (EPD)
- Classifications: fire resistance rating, reaction to fire, fire retardancy,
- **Hygienic Approval** - allows for use in, commercial, industrial, food processing, refrigeration facilities, residential and public buildings, including health services.

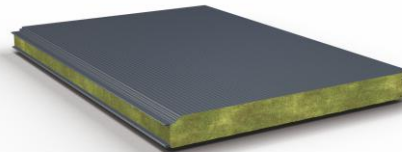
- Current versions of the documents are available at: www.gor-stal.pl

Wall panel GS MW S



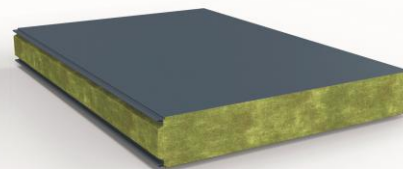
01	Type of core	hard mineral wool
02	Density [kg/m ³]	105 (+/-10%)
03	Thickness [mm]	80
04	Mass [kg/mb] *	17,9 (module 1000 mm) 20,3 (module 1140mm)
05	Total width [mm]	1000 / 1140
06	External lining profiling (module 1000 mm)	L - Linear, M -Mikro-profiling, F - Wavy, R - Grooving
07	External lining profiling (module 1140 mm)	L - Linear, M -Mikro-profiling, F - Wavy
08	Internal lining profiling	L - Linear
09	Standard colours of external lining**	
10	Standard colours of internal lining**	
11	Coefficient U _{es} [W/m ² K]	0,54
12	Reaction to fire (for all end uses)	A2-s1,d0
13	Fire propagation	NRO
14	Fire resistance	EI 60
15	Water vapor permeability	„Complies“ (impervious)
16	Sound insulation	31(-1;-3)
17	Certificates, approvals, seals of approval	Atest PZH, EN 14509:2013, EPD (type III)

Wall panel GS MW U



01	Type of core	hard mineral wool		
02	Density [kg/m ³]	105 (+/-10%)		
03	Thickness [mm]	80	100	120
04	Mass [kg/mb] * (module 1000 mm)	18,2	20,3	22,4
05	Total width [mm]	1000		
06	External lining profiling	L - Linear, M -Mikro-profiling, F - Wavy, R - Grooving		
07	Internal lining profiling	L - Linear		
08	Standard colours of external lining**			
09	Standard colours of internal lining**			
10	Coefficient U _{es} [W/m ² K]	0,56	0,44	0,37
11	Reaction to fire (for all end uses)	A2-s1,d0		
12	Fire propagation	NRO		
13	Fire resistance	NPD	EI 120	
14	Water vapor permeability	„Complies“ (impervious)		
15	Sound insulation	NPD	32(-2;-3)	
16	Certificates, approvals, seals of approval	Atest PZH, EN 14509:2013, EPD (type III)		

Wall panel GS MW CH

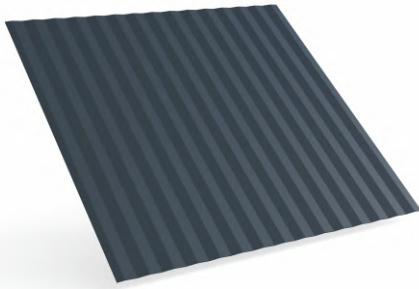


01	Type of core	hard mineral wool				
02	Density [kg/m ³]	105 (+/-10%)				
03	Thickness [mm]	100	120	160	200	250
04	Mass [kg/mb] * (module 1000 mm)	20,0	22,1	26,3	30,5	35,8
04	Mass [kg/mb] * (modul 1140 mm)	22,7	25,1	29,9	34,7	40,7
05	Total width [mm]	1000 / 1140				
06	External lining profiling (module 1000 mm)	L - Linear, M -Mikro-profiling, F - Wavy, R - Grooving				
06	External lining profiling (module 1140 mm)	L - Linear, M -Mikro-profiling, F - Wavy, R - Grooving				
07	Internal lining profiling	L - Linear				
08	Standard colours of external lining**					
09	Standard colours of internal lining**					
10	Coefficient U _{es} [W/m ² K]	0,43	0,36	0,27	0,22	0,17
11	Reaction to fire (for all end uses)	A2-s1,d0				
12	Fire propagation	NRO				
13	Fire resistance	EI 120	EI 180	EI 240		
14	Water vapor permeability	„Complies“ (impervious)				
15	Sound insulation	31(-2;-3)				
16	Certificates, approvals, seals of approval	Atest PZH, EN 14509:2013, EPD (type III)				

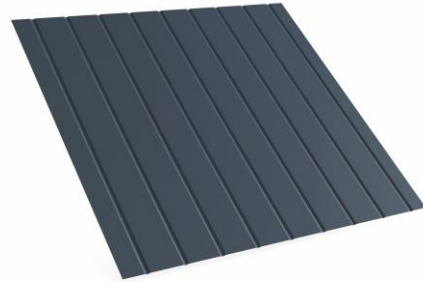
* panels with claddings 0,5/0,6 mm. A table with panel weights and the other corresponding facing thickness values are available in the Technical Department

** available colors depending on the thickness of the cladding, panels thicknesses and modular widths (details from the Sales Representative)

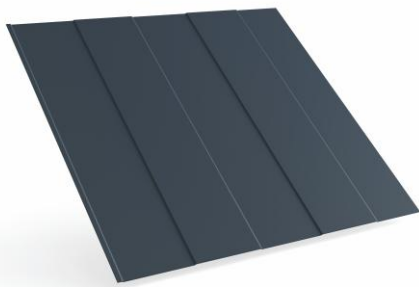
▷ PROFILATIONS



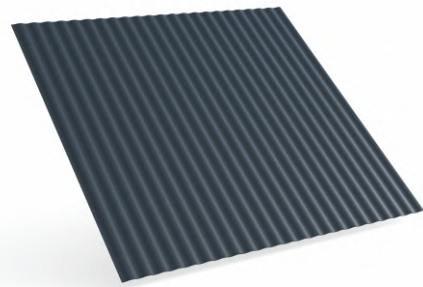
M - Mikro-profilung



R - Grooving



L - Linear



F - Wavy

▷ PRODUCTION PROGRAM

The production program for sandwich panel systems includes the following items:

Panels with visible fastening: GS MW S

GS MW S (standard connector) - thickness 80 mm

GS MW CH (standard connector) - thickness 100, 120, 160, 200 i 250 mm

Panels with hidden fastening:

GS MW U (hidden connector) - thickness 80, 100, 120 mm

Standard and custom-made flashings, according to the customer's design, with a maximum length of **6 m**. Detailed characteristics of the panels can be found further in this catalog.

▷ GUIDELINES FOR TRANSPORTATION

Sandwich panels are packed in batches. Loading and unloading of the batches may be done by means of forklift trucks or a lift equipped with an appropriate bar lifting sling, however:

- a single forklift truck may be used to move a package of panels with maximum length of **8 metres**,
- panels with length exceeding **8 m** need to be unloaded using a lift with a hoisting beam,
- if unloading panels using a lift with rope slings, use spacers to prevent panels from being crushed.

The transportation of sandwich panels shall be carried out by vehicles adapted for that purpose, while maintaining the following conditions:

- ensure unobstructed access on both sides of the trailer along its entire length,
- never stack panels more than two packages high
- complete support for a panel package must be provided along the entire length of the open load-carrying body,
- ensure there is sufficient clear space between panel packages, the load-carrying body and the cargo straps,
- the truck must be equipped with cargo straps. Place flexible separators underneath the cargo straps.
- When tightened, the straps must not deform the panels.

▷ GUIDELINES FOR MOUNTING

The sandwich panel manufacturer recommends that you use flashings and cam-locks delivered with the panels as part of the light sandwich panel system. When mounting the panels, follow the guidelines provided below:

- only cut plates and flashings with a fine-toothed circular saw machine or metal cutting scissors. **Never use grinding wheels.**
- cut the panels and flashings at a properly prepared station in order not to damage the lacquer and thin coatings,
- remove the protection foil after the panels have been installed,
- after installation thoroughly clean the surface of the panels, particularly off steel filings,

Typical panel mounting solutions are presented farther in this publication.

▷ TECHNICAL SUPPORT

We strive to deliver friendly and professional customer service. Our technical department and sales representatives assist designers, engineers and contractors in designing, ordering and selecting our products as well as installation thereof. Our customers are thus provided with active support from the design stage to the installation stage as well as prompt technical advisory service and cost calculation. The ordering and delivery process is coordinated by the **Customer Service Department (DOK)**.

For more information visit our website www.gor-stal.pl

▷ APPLICATION

GS MW S / GS MW CH wall panels are intended for the construction of walls with the required fire resistance in frame structures. Compatibility of the locks with the GS insPIRe panels enables the production of e.g. inter-story belts in light casings. Panels can be mounted in both vertical and horizontal position, as single-span or multi-span wall elements.

▷ PHYSICAL PROPERTIES

GS MW S / GS MW CH wall panels are produced in six core **thicknesses** (1 x S and 5 x CH): Panel facings are made of sheet metal galvanised on both sides according to **EN 10346** with organic polyester coating **25µm** thick. In sandwich panels, **rock wool** with a density of **105 kg/m³ (+/-10%)** and a design thermal conductivity coefficient of **λ=0,044 W/m·K** is used as the core. The core of rock **mineral wool** (material with reaction to fire class A) allows to obtain high fire resistance classes of GS sandwich panels with mineral wool. The modular widths of the panels are: **1000 mm and 1140 mm**, and their standard lengths range from **2.0 m to 16.0 m**

***. The tightness of the panel joints is ensured by properly designed panel locks.

Thickness [mm]	Weight [kg/m ²]		Modular width [mm]	Length: typical/available [m]	Lining standard RAL colours	
	facings 0,6/0,6 mm**	facings 0,5/0,6 mm**			external linings*	internal linings*
S 80	18,8	17,9	1000/1140	2,0-16,0	9002, 9006, 9007, 9010 7016- for module 1140	9002, 9010
CH 100	20,9	20,0				
CH 120	23,0	22,1				
CH 160	27,2	26,3				
CH 200	31,4	30,5				
CH 250	36,6	35,8				

* available depending on the thickness of the cladding, panels thicknesses and modular widths (details from the Sales Representative)

** typical lining thicknesses; also available 0.7 mm (details from our Sales Representative)

*** production of panels longer than 9.0 m, subject to prior agreement

The fire resistance class depends on the core thickness and the lock type and is characterized by the fire resistance class (values given in the table below). Acoustic parameters were determined on the basis of **EN ISO 10140-3** and **EN-ISO 354**. Wall panels can be used for partitions with acoustic insulation requirements lower than those given below. Chemical corrosion resistance - sandwich panels can be used in environments with atmospheric corrosivity categories C1, C2, C3 according to **EN ISO 12944-2**.

▷ TECHNICAL PARAMETERS OF Mi Wo CORE

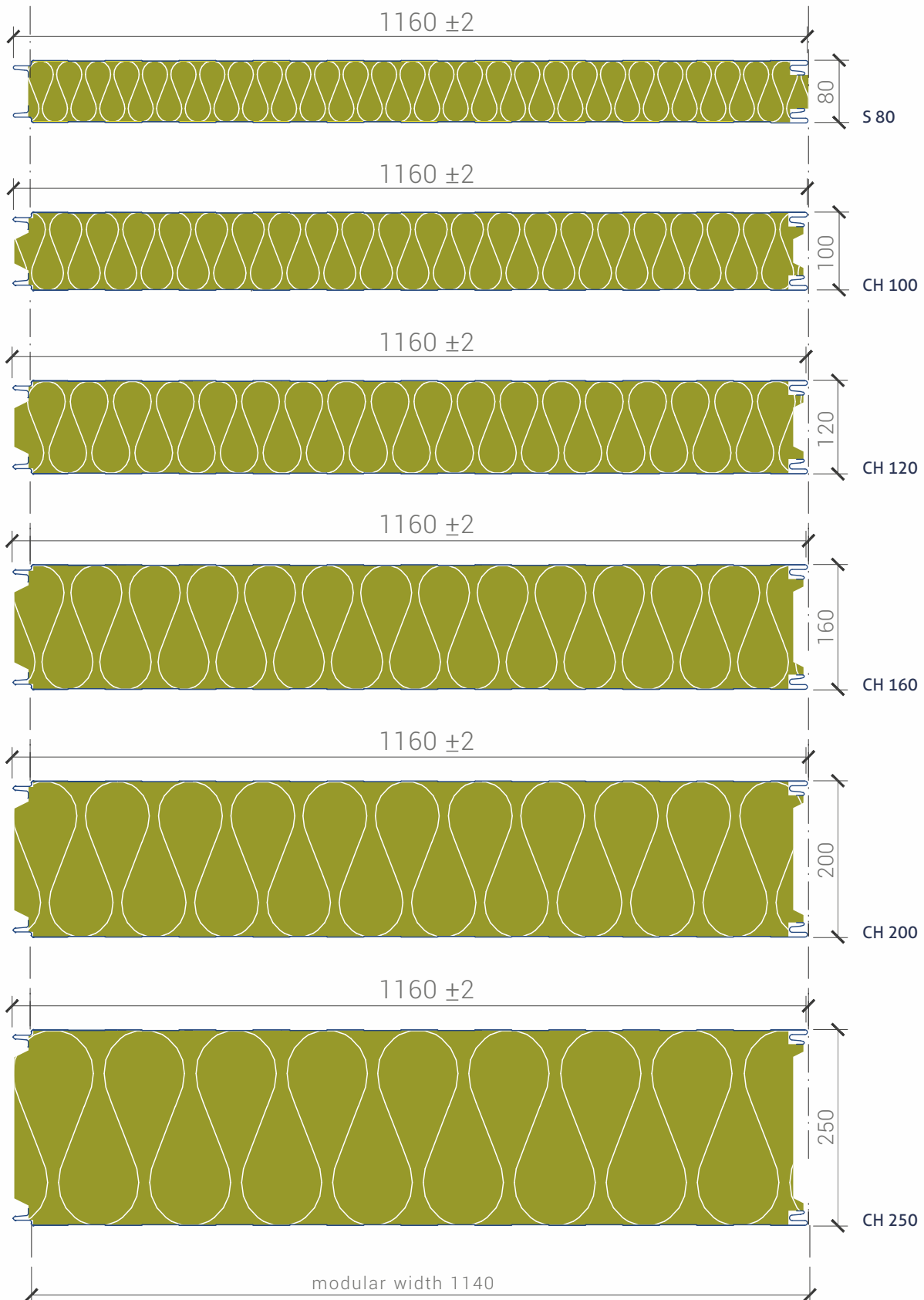
Thickness [mm]	Heat-transfer coefficient U [W/m ² ·K]	Acoustic insulation	Reaction to fire (for all end uses)	Fire resistance*	NRO
	EN 14509	EN ISO 717-1	EN 13501-1	EN 13501-2	PN-B-02867
S 80	0,54	31(-1;-3)	A2-s1,d0	EI 60	„NRO“
CH 100	0,43			EI 120	
CH 120	0,36			EI 180	
CH 160	0,27			EI 240	
CH 200	0,22				
CH 250	0,17				

* conditions according to fire resistance classification

Wall sandwich panel GS MW S / GS MW CH (visible connector)

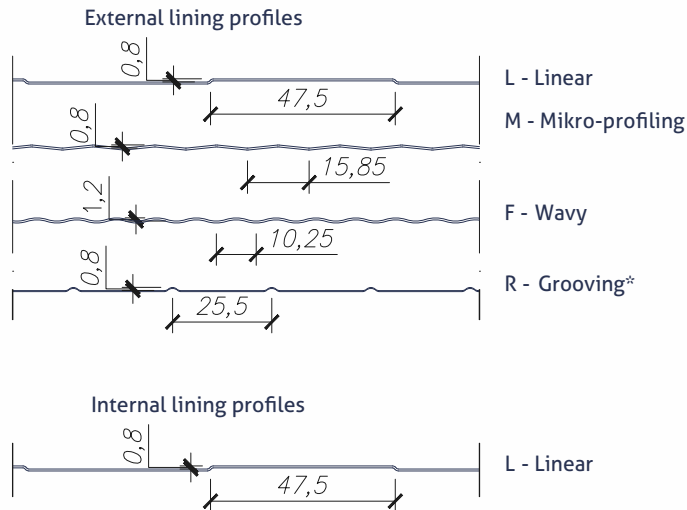
- ▷ GS MW S / GS MW CH panel manufacturing program:
 - ▷ panel thicknesses
 - ▷ profiles of outer and inner facing

▷ PANEL THICKNESS



Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ GS MW S / GS MW CH panel manufacturing program:
 - ▷ panel thicknesses
 - ▷ profiles of outer and inner facing



* - for module 1140 performed after prior arrangement (details from Sales Representative)

▷ TABLE OF ALLOWED LOADS FOR GS MW S / GS MW CH SANDWICH PANEL

Table of permissible loads of the GS MW S / GS MW CH wall sandwich panel with facings of thickness 0.5 / 0.6 mm in light colors, mounted as a single-span element, towards and from the support.

Panel thickness	The load due to:	The maximum load [kN/m ²] on the span length [m]:										
		1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5
80	SGN (q _d)	3,91	2,94	2,35	1,96	1,68	1,47	0,93	0,75	0,62	0,53	0,45
	SGU (q _k)	10,85	6,74	4,38	2,94	2,02	1,42	1,02	0,74	0,54	0,40	0,30
100	SGN (q _d)	4,39	3,29	2,63	2,19	1,88	1,65	1,46	0,86	0,71	0,60	0,51
	SGU (q _k)	13,62	8,81	5,97	4,17	2,98	2,17	1,60	1,20	0,91	0,70	0,54
120	SGN (q _d)	5,66	4,25	3,40	2,83	2,43	2,12	1,05	0,85	0,70	0,59	0,50
	SGU (q _k)	10,08	7,14	5,01	3,73	2,84	2,19	1,71	1,35	1,07	0,86	0,69
160	SGN (q _d)	7,40	5,55	4,44	3,70	3,17	2,78	1,51	1,23	1,01	0,85	0,72
	SGU (q _k)	21,87	14,98	10,80	8,02	6,09	4,69	3,66	2,89	2,31	1,86	1,51
200	SGN (q _d)	10,06	7,54	6,04	5,03	4,31	3,77	2,09	1,70	1,40	1,18	1,00
	SGU (q _k)	25,92	18,14	13,39	10,20	7,94	6,27	5,01	4,05	3,30	2,71	2,24
250	SGN (q _d)	-	-	-	-	-	-	-	-	-	-	-
	SGU (q _k)	-	-	-	-	-	-	-	-	-	-	-

Table of permissible loads of the **GS MW S / GS MW CH** wall sandwich panel with facings of thickness 0.5 / 0.6 mm in light colors, mounted as a multi-span element, towards and from the support.

Panel thickness	The load due to:	The maximum load [kN/m ²] on the span length [m]:										
		1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5
80	SGN (q _d)	2,48	1,88	1,30	0,76	0,48	0,33	0,23	0,17	0,13	0,11	-
	SGU (q _k)	11,98	8,16	5,88	4,33	3,25	2,49	1,93	1,52	1,20	0,96	0,78
100	SGN (q _d)	2,22	1,71	1,41	0,85	0,51	0,33	0,28	0,16	0,11	-	-
	SGU (q _k)	14,55	10,05	7,41	5,62	4,33	3,39	2,68	2,15	1,75	1,43	1,17
120	SGN (q _d)	2,29	1,71	1,21	0,67	0,38	0,22	0,13	-	-	-	-
	SGU (q _k)	10,35	7,33	5,54	4,35	3,53	2,91	2,41	2,01	1,69	1,44	1,22
160	SGN (q _d)	2,54	1,91	1,54	1,31	0,83	0,50	0,31	0,20	0,13	-	-
	SGU (q _k)	22,47	16,15	11,99	9,41	7,59	6,18	5,08	4,23	3,54	2,98	2,53
200	SGN (q _d)	2,89	2,16	1,73	1,46	1,26	1,10	0,75	0,53	0,38	0,28	0,22
	SGU (q _k)	26,35	18,85	14,35	11,37	9,26	7,70	6,45	5,45	4,75	4,06	3,51
250	SGN (q _d)	-	-	-	-	-	-	-	-	-	-	-
	SGU (q _k)	-	-	-	-	-	-	-	-	-	-	-

The load capacity tables have been prepared in accordance with **EN 14509** for panels with a rock mineral wool core with light-colored facings for an internal temperature of **20 ° C**. The deflection condition was assumed to be **L / 100**. In the case of a different sheet thickness, limit deflections, temperatures, fastening or dark colors of the cladding, separate calculations must be made. The minimum width of the supports is **40 mm** and **60 mm** (intermediate).

The number of connectors required on the supports - 3. Detailed tables of permissible loads are available on the website.

▷ PACKING

GS MW S / GS MW CH sandwich panels are packed in packages on pallets to allow their transport. The number of panels in each package depends on their thickness. Details in the table below.

Panel thickness [mm]	80	100	120	160	200	250
Maximum number of panels in one batch	14	11	9	7	5	4

Selected details of cladding made of **GS MW S** sandwich panels

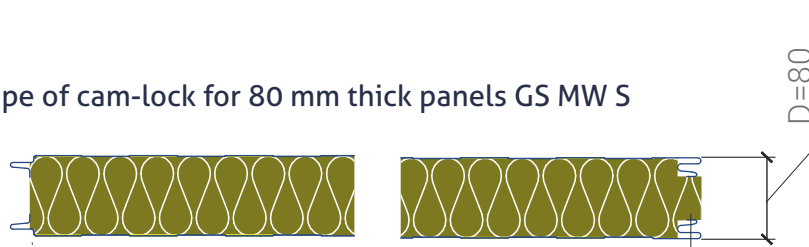
Details of cam-lock and panel joints for 80 mm thick	012
Details of cam-lock and panel joints for 100, 120, 160, 200, 250 mm thick	
Details of 80 mm thick panel connection	013
VERTICAL ARRANGEMENT of panels	
Details of panel connection to ground beam - Type I	014
Details of panel connection to ground beam - Type II	015
Detail of panel connection to flooring	016
Detail of panel connection in a corner - Type I	017
Detail of panel connection in an optional angle corner	018
Detail of panel connection to blockwall	019
Detail of buildings expansion joint	020
Detail of steel post in a roller shutter door	021
Detail of roller shutter door lintel	022
Detail of window mounting in a sandwich panel - Type I - vertical section	023
Detail of window mounting in a sandwich panel - Type I - horizontal section	024
HORIZONTAL ARRANGEMENT of panels	
Details of panel connection to ground beam - Type I	025
Details of panel connection to ground beam - Type II	026
Detail of panel connection to flooring	027
Detail of panel connection in a corner	028
Detail of panel connection in an optional angle corner	029
Detail of panel connection to blockwall	030
Detail of panel connection to main support	031
Detail of panel connection to intermediate support	032
Detail of buildings expansion joint	033
Detail of panel connection to reinforced concrete support	034
Detail of post to roller shutter door	035
Detail of roller shutter door lintel	036
Detail of window mounting in a sandwich panel - Type I - vertical section	037
Detail of window mounting in a sandwich panel - Type I - horizontal section	038

Wall sandwich panel GS MW S / GS MW CH (visible connector)

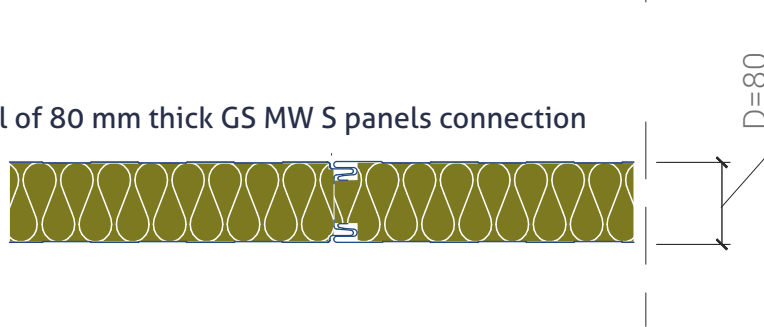
- Details of cam-lock and panel joints for 80 mm thick
- Details of cam-lock and panel joints for 100, 120, 160, 200, 250 mm thick



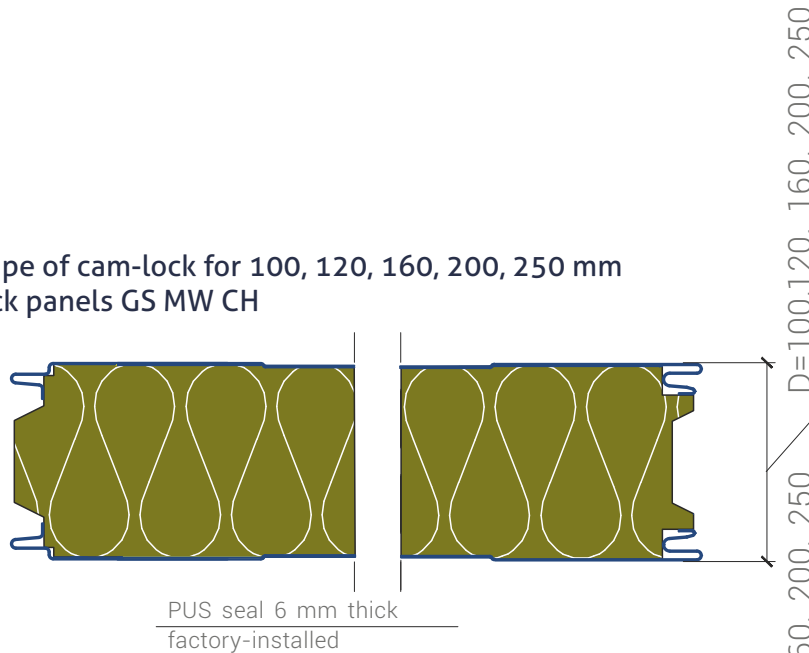
Shape of cam-lock for 80 mm thick panels GS MW S



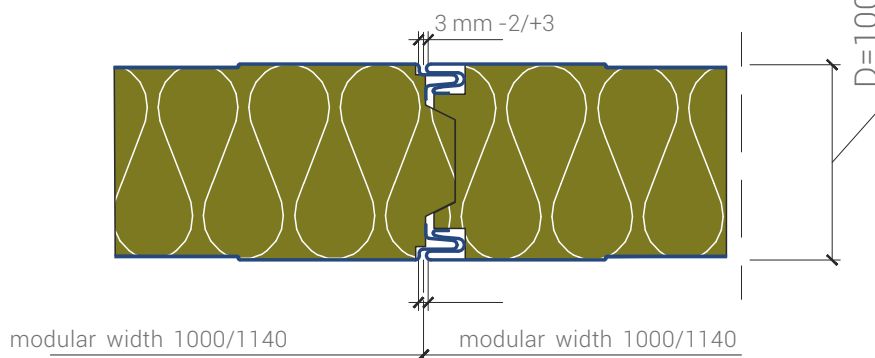
Detail of 80 mm thick GS MW S panels connection



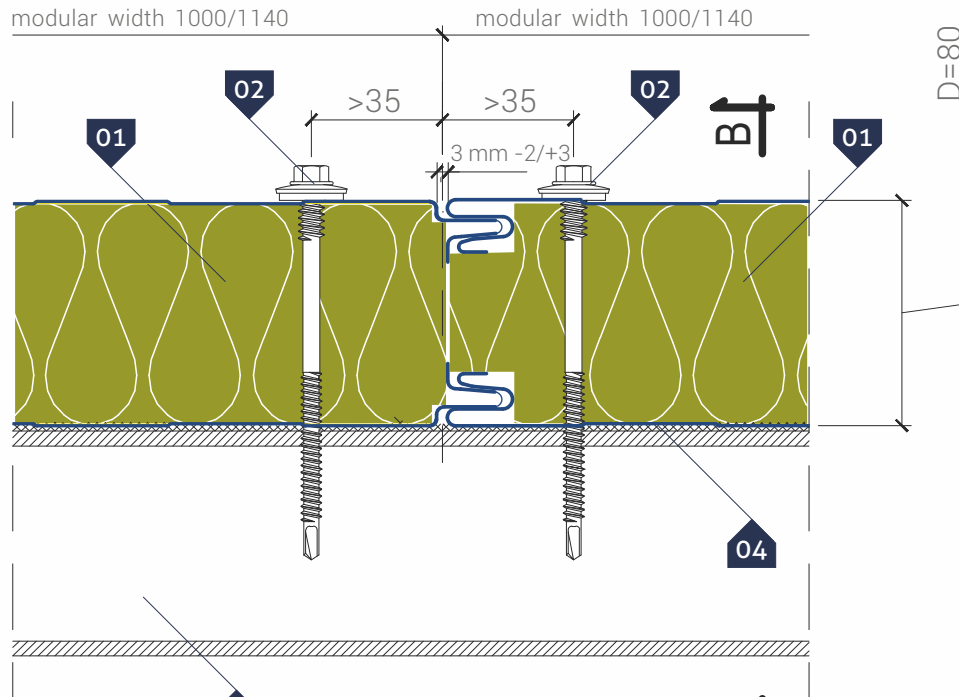
Shape of cam-lock for 100, 120, 160, 200, 250 mm thick panels GS MW CH



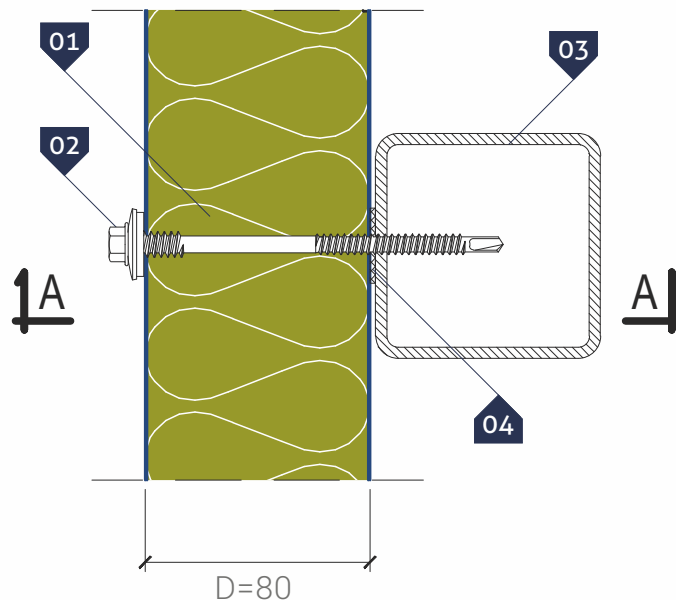
Detail of 100, 120, 160, 200, 250 mm thick panels' connection GS MW CH



A-A cross-section



B-B cross-section



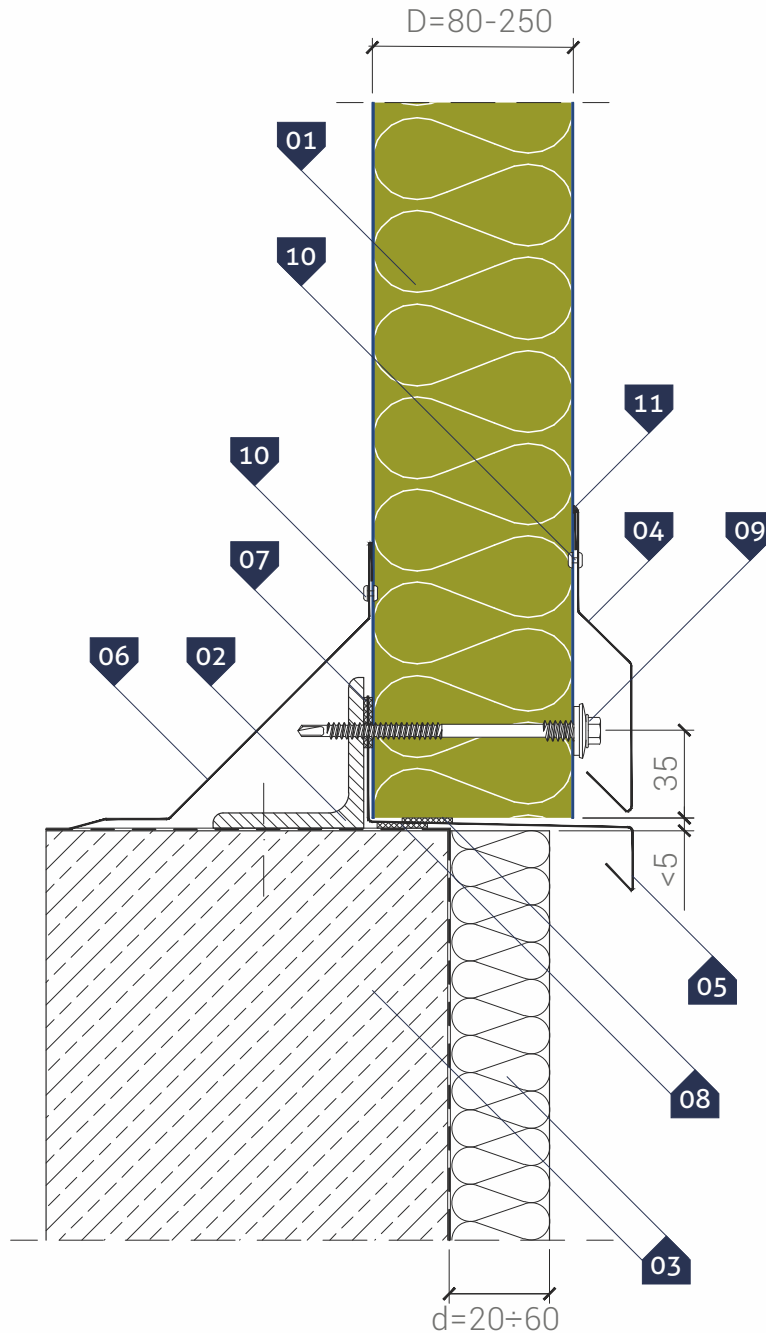
- ▷ **KEY:**
- 01. GS MW wall panel
 - 02. Self-drilling connector for sandwich panels
 - 03. Transom acc. to structure design
 - 04. Polyethylene, self-adhesive sealing tape (PES)*

- ▷ **NOTE:** fasten each panel along its width to a structure with a minimum of three connectors (this applies to full-width panels).

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ VERTICAL ARRANGEMENT of panels
- Details of panel connection to ground beam
Type I



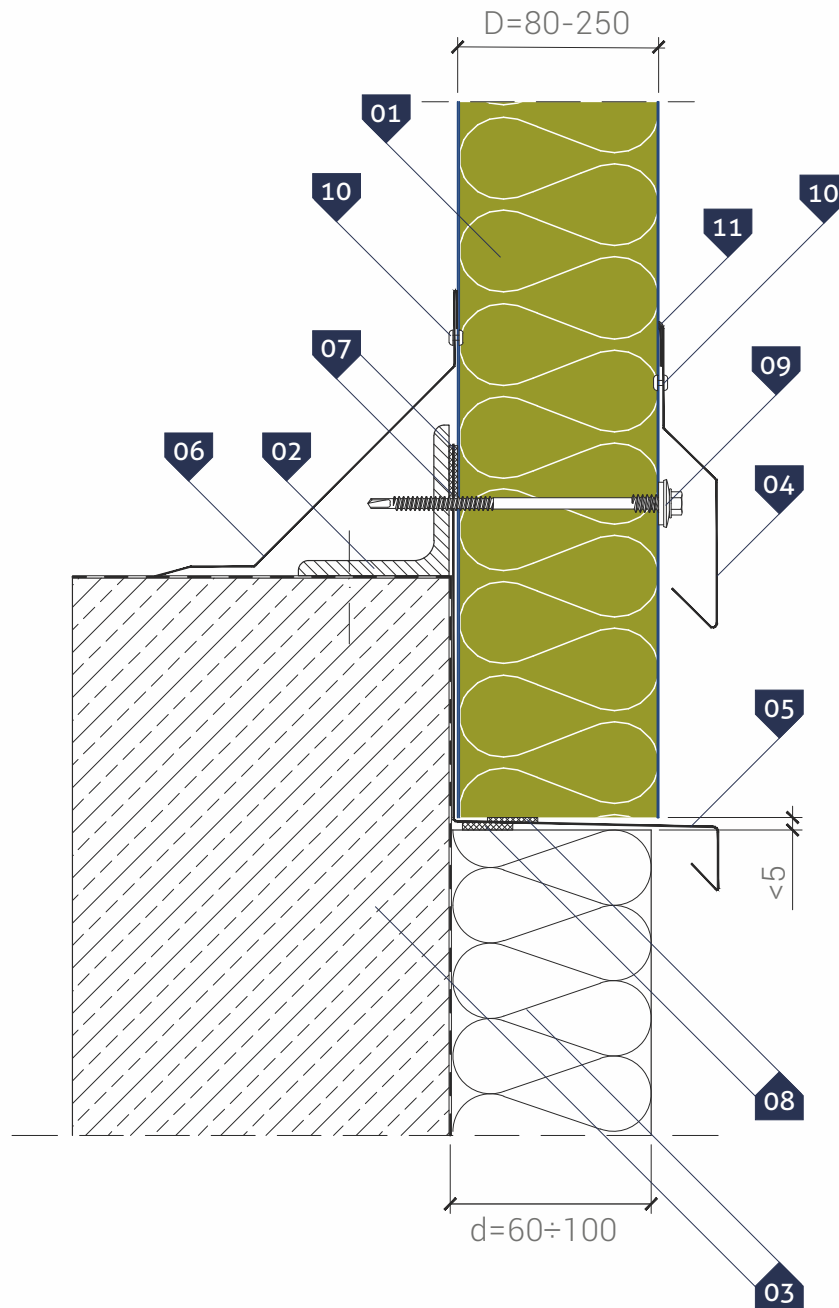
▷ **KEY:**

- 01. GS MW wall panel (visible mounting)
- 02. Steel section acc. to structure design
- 03. Ground beam with insulation and thermal insulation acc. to detailed design
- 04. Drip edge **OB-10** (option)
- 05. Eaves **OB-13**
- 06. Covering flashing **OB-08**
- 07. Polyethylene, self-adhesive sealing tape (**PES**)*
- 08. Impregnated polyurethane gasket (**PURS**) or polyurethane fitting mounting foam
- 09. Self-drilling connector for sandwich panels
- 10. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
- 11. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ VERTICAL ARRANGEMENT of panels
- Details of panel connection to ground beam
- Type II



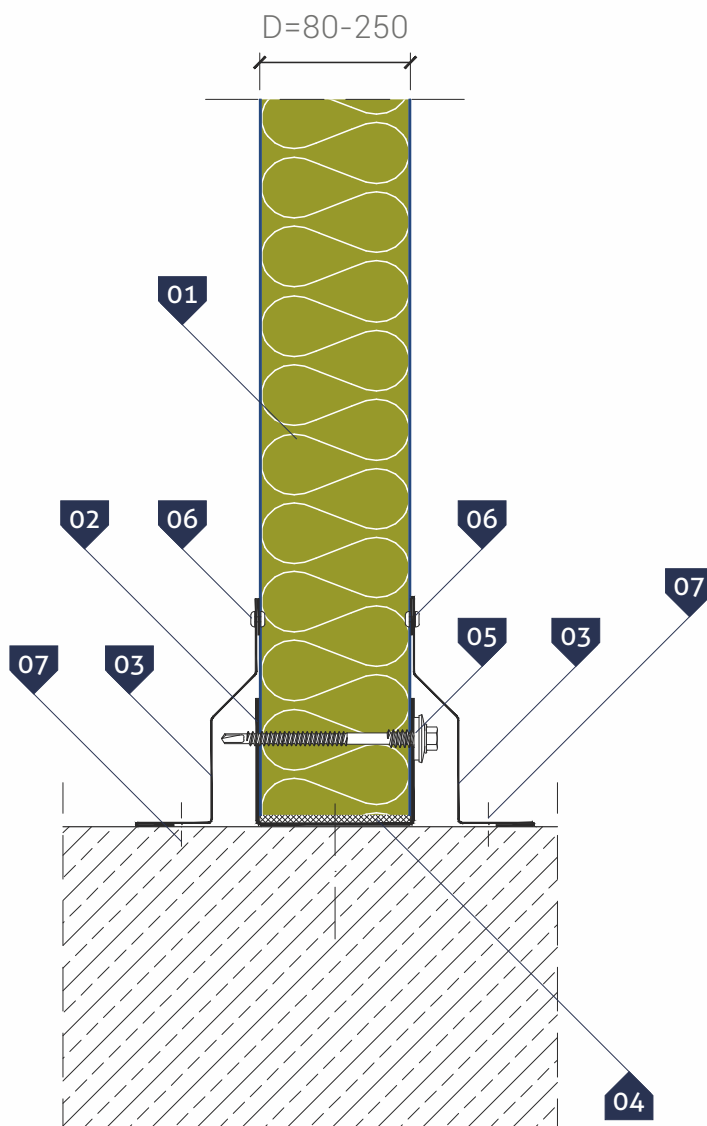
▷ KEY:

01. GS insPIRe[®] S wall panel (visible mounting)
02. Steel section acc. to structure design
03. Ground beam with insulation and thermal insulation acc. to detailed design
04. Drip edge **OB-10** (option)
05. Eaves **OB-13** (extended)
06. Covering flashing **OB-08**
07. Polyethylene, self-adhesive sealing tape (PES)*
08. Impregnated polyurethane gasket (PURS) or polyurethane fitting mounting foam
09. Self-drilling connector for sandwich panels
10. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
11. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of panel connection to flooring

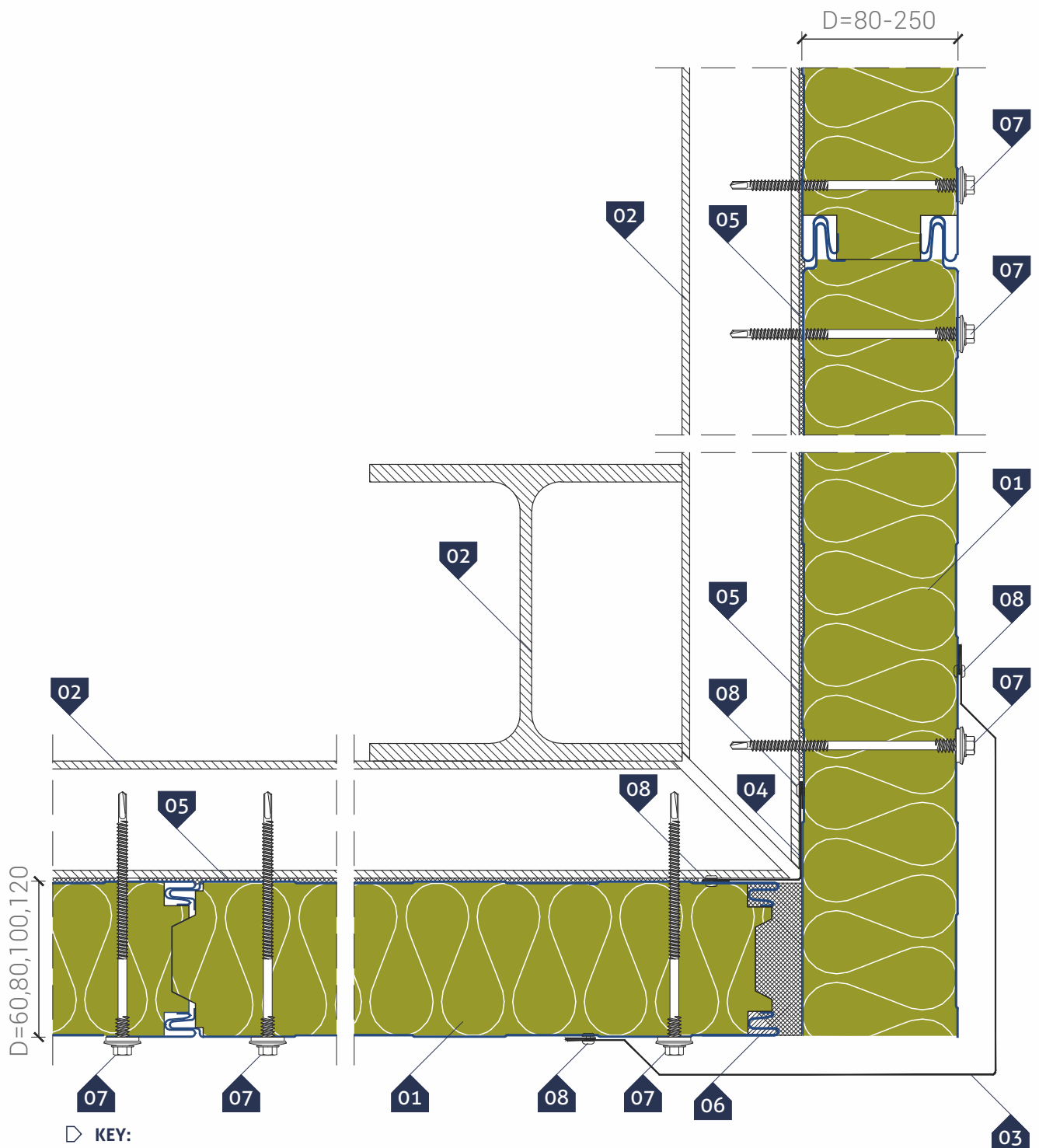


▷ KEY:

- 01. **GS insPIRe[®] S** wall panel (visible mounting)
- 02. Edge channel section **OB-42**
- 03. Covering flashing **OB-05**
- 04. Filling with rock mineral wool
- 05. Self-drilling connector for sandwich panels
- 06. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
- 07. Steel expansion joint for fast assembly

Wall sandwich panel GS MW S / GS MW CH (visible connector)

▷ VERTICAL ARRANGEMENT of panels
Detail of panel connection in a corner
Type I



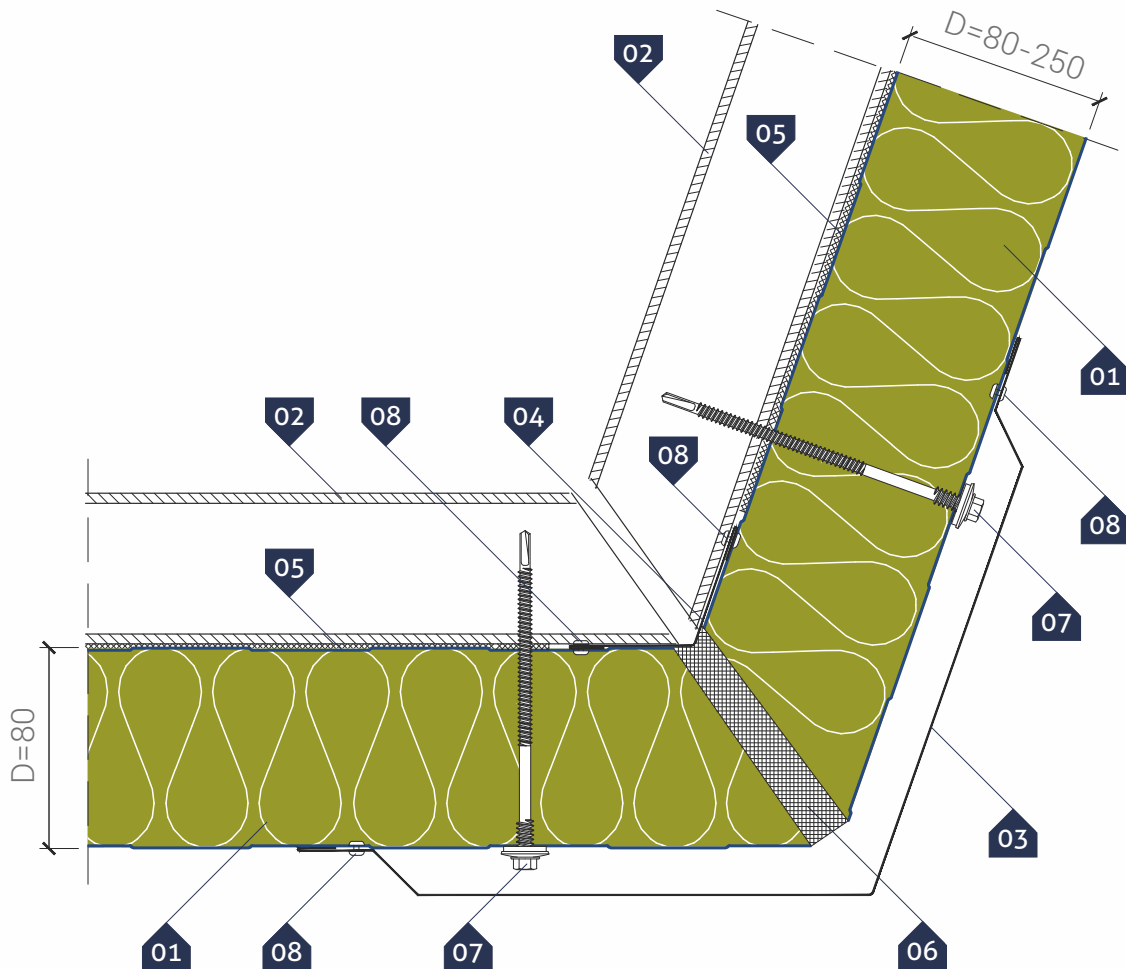
- ▷ KEY:
- 01. GS MW wall panel (visible mounting)
 - 02. Steel post and transom acc. to structure design
 - 03. Corner flashing **OB-03**
 - 04. Corner flashing **OB-02**
 - 05. Polyethylene, self-adhesive sealing tape **(PES)***
 - 06. Filling with rock mineral wool
 - 07. Self-drilling connector for sandwich panels
 - 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

▷ VERTICAL ARRANGEMENT of panels

Detail of panel connection in an optional angle corner



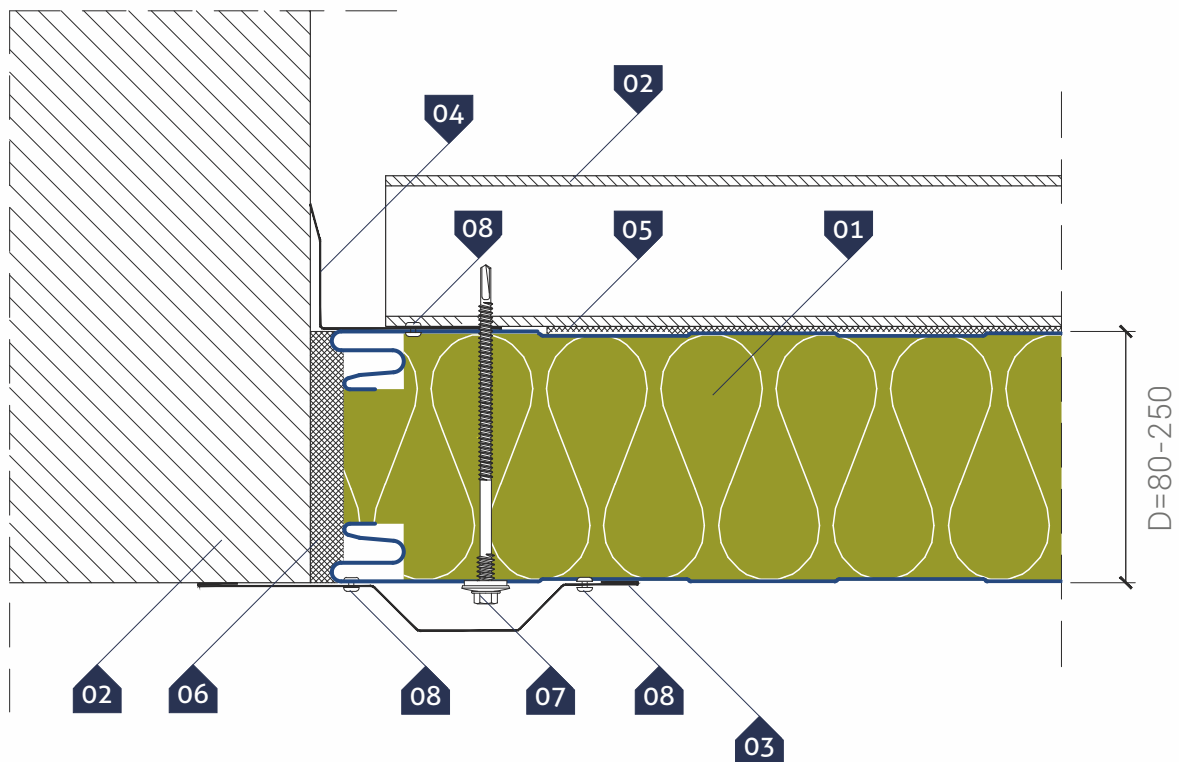
▷ **KEY:**

- 01. GS MW wall panel (visible mounting)
- 02. Transom acc. to structure design
- 03. Corner flashing **OB-03**
- 04. Corner flashing **OB-02**
- 05. Polyethylene, self-adhesive sealing tape (**PES**)*
- 06. Filling with rock mineral wool
- 07. Self-drilling connector for sandwich panels
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of panel connection to blockwall



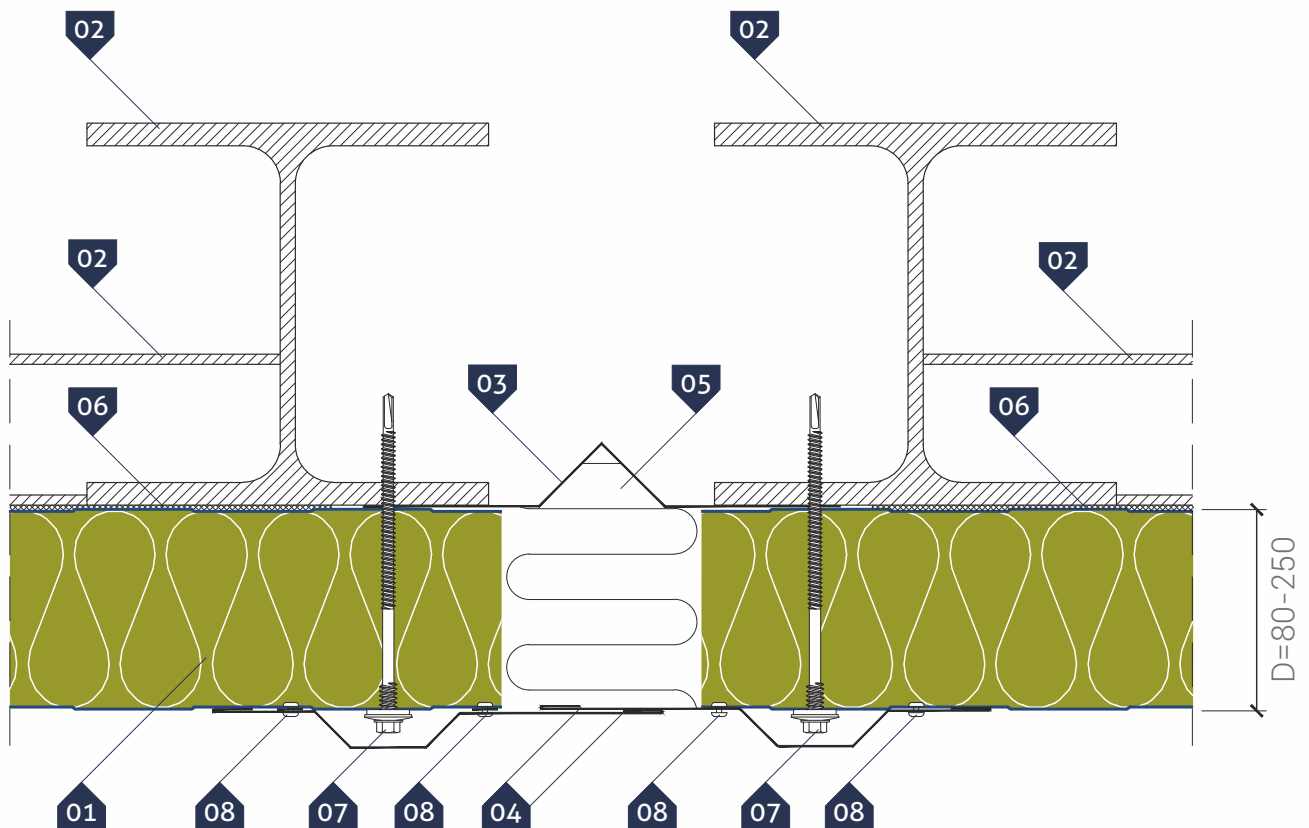
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Blockwall and transom acc. to structure design
- 03. Covering flashing **OB-19**
- 04. Inner corner flashing **OB-07**
- 05. Polyethylene, self-adhesive sealing tape (**PES**)*
- 06. Filling with rock mineral wool
- 07. Self-drilling connector for sandwich panels
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of buildings expansion joint



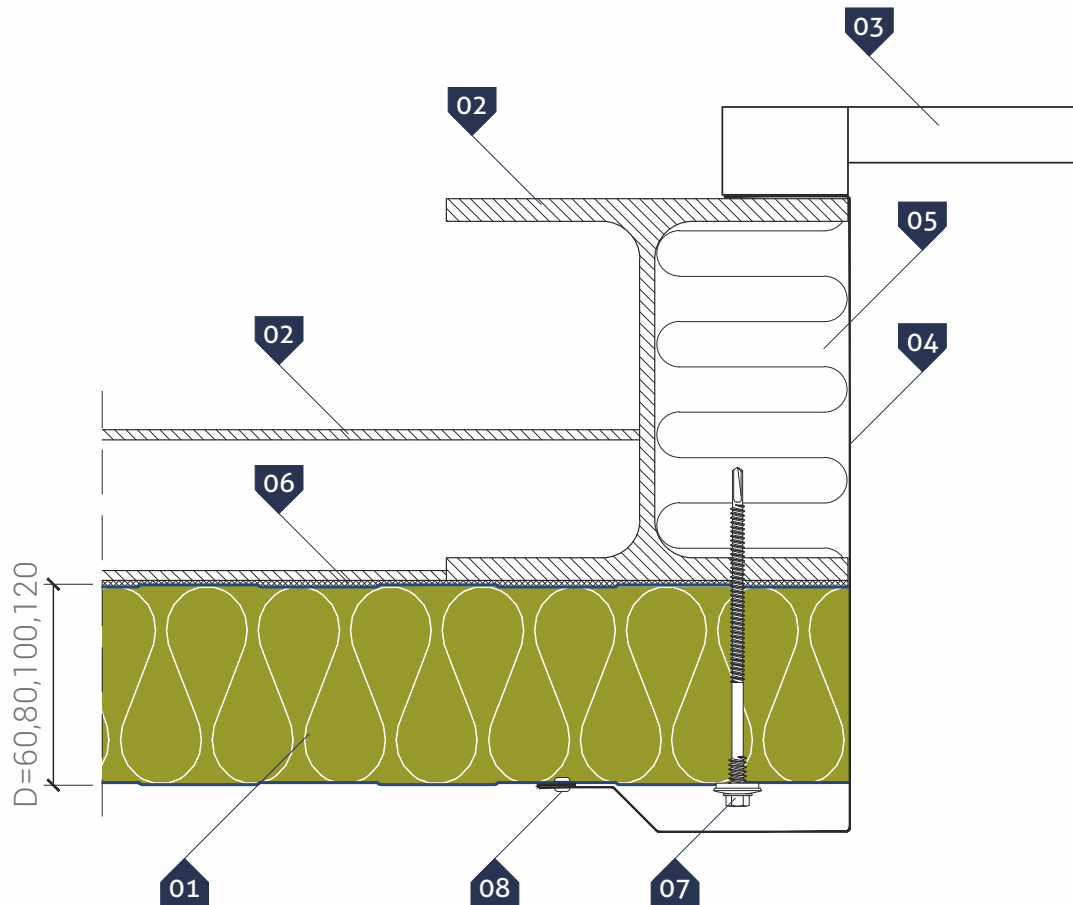
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Steel post and transom acc. to structure design
- 03. Individual expansion joint flashing
- 04. Covering flashing **OB-17**
- 05. Thermal insulation on the fastening
- 06. Polyethylene, self-adhesive sealing tape (PES)*
- 07. Polyethylene, self-adhesive sealing tape
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of steel post in a roller shutter door



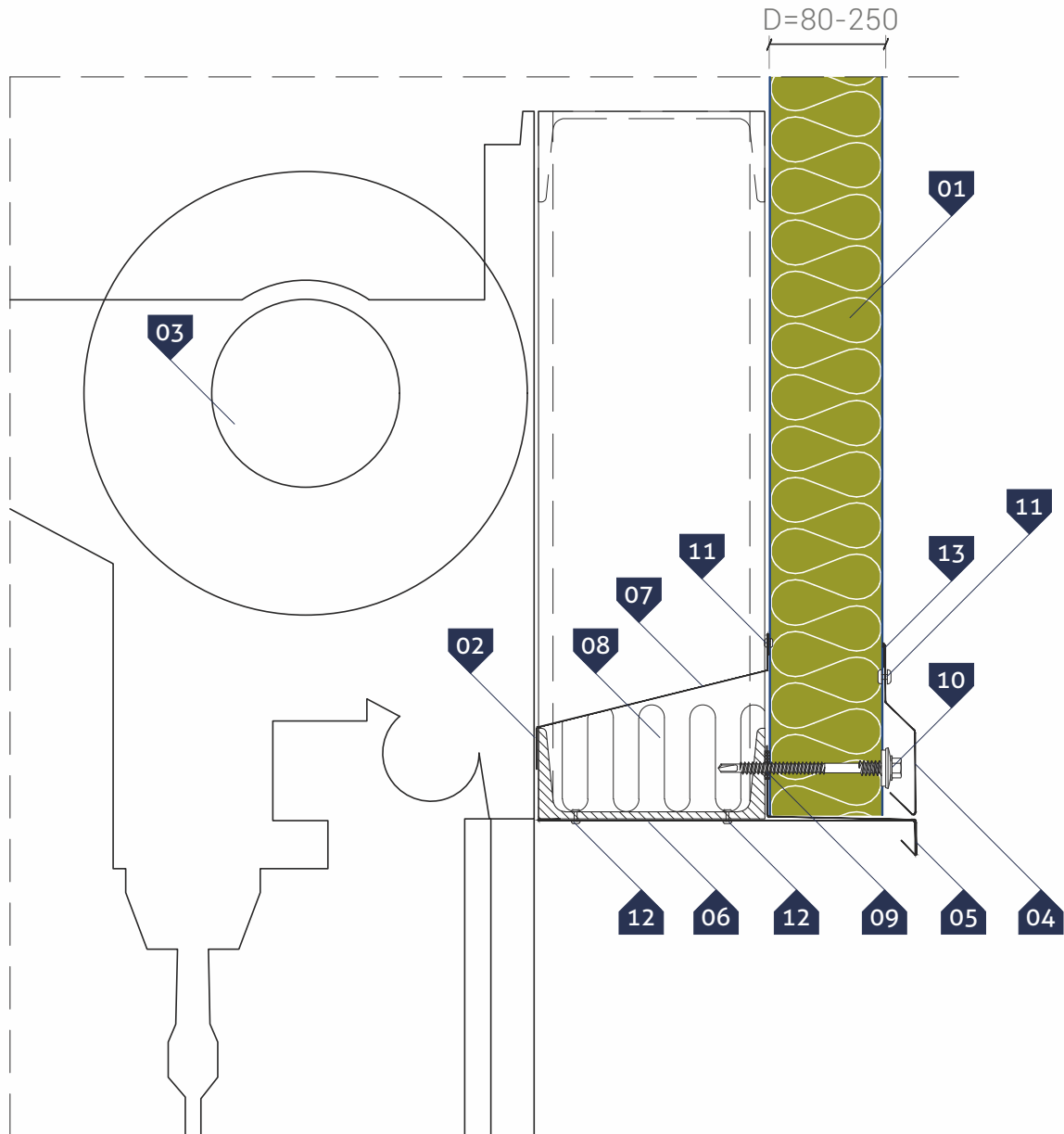
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Steel post and transom acc. to structure design
- 03. Industrial door
- 04. Door flashing **OB-21**
- 05. Thermal insulation on the fastening
- 06. Polyethylene, self-adhesive sealing tape (**PES**)*
- 07. Self-drilling connector for sandwich panels
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of roller shutter door lintel



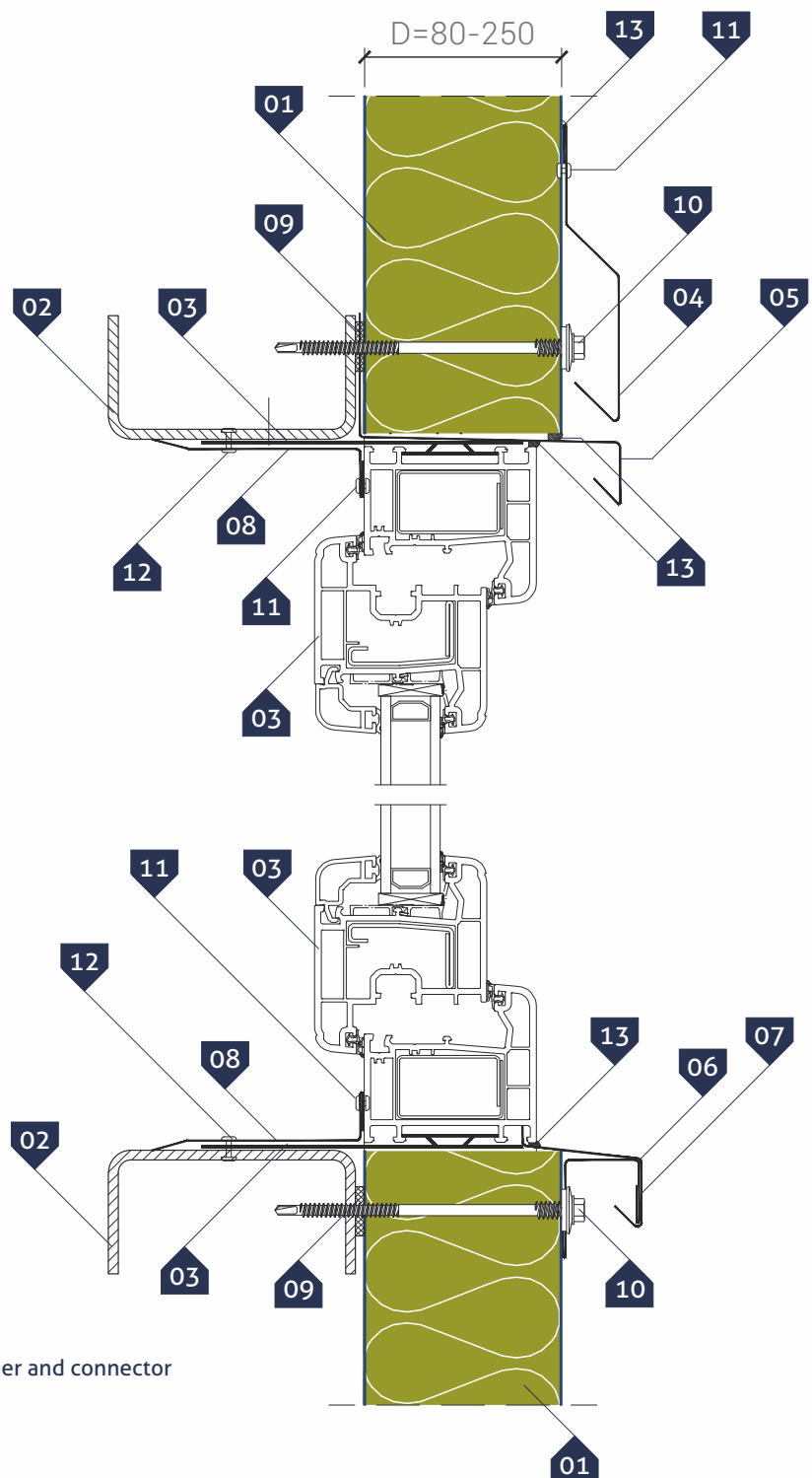
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Transom acc. to structure design
- 03. Roller shutter door
- 04. Drip edge **OB-10**
- 05. Drip edge **OB-13**
- 06. Covering flashing **OB-20**
- 07. Individual covering flashing
- 08. Thermal insulation on the fastening
- 09. Polyethylene, self-adhesive sealing tape (**PES**)*
- 10. Self-drilling connector for sandwich panels
- 11. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
- 12. Blind rivet **4,8 x 15,1** (for the structure)
- 13. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ VERTICAL ARRANGEMENT of panels
- Detail of window mounting in a sandwich panel
- Type I – vertical section



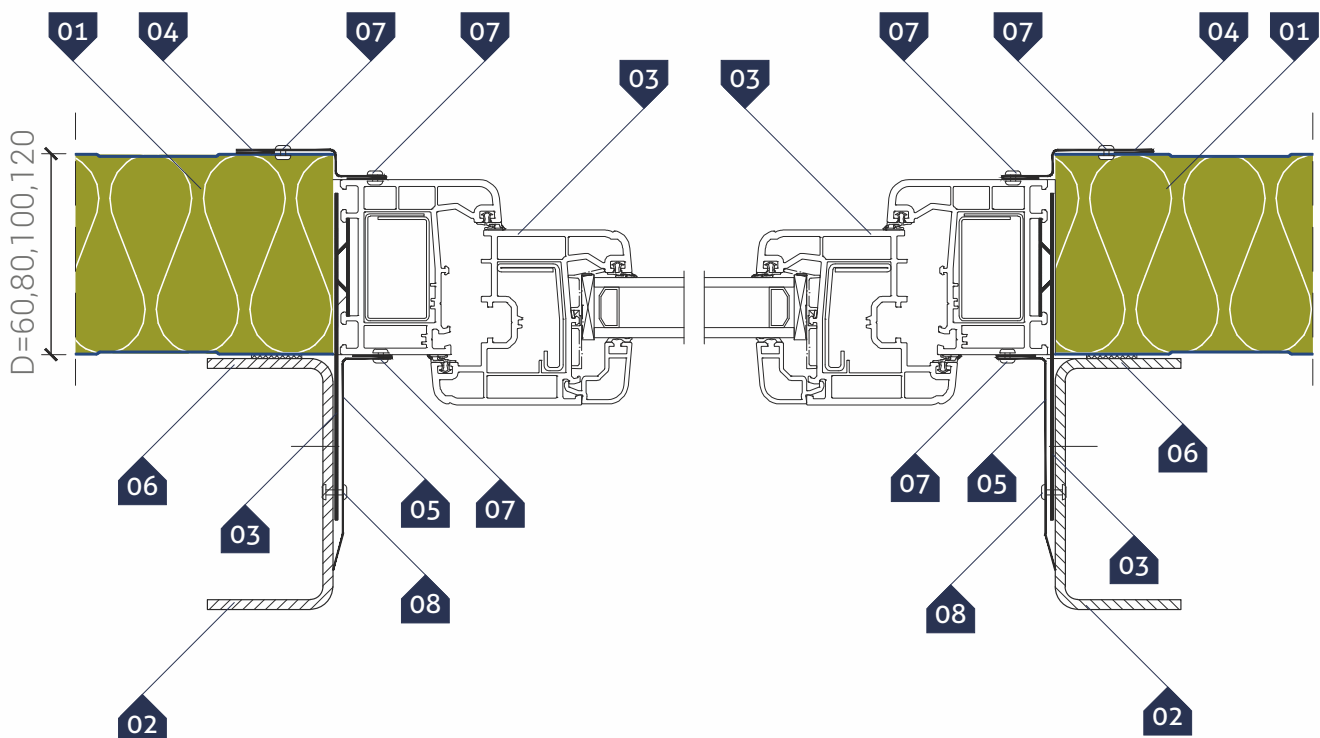
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Transom acc. to structure design
- 03. PCV or aluminium window with a holder and connector
- 04. Drip edge OB-10
- 05. Drip edge OB-13
- 06. Cill OB. OB-37
- 07. Rigid flashing OB-16
- 08. Individual internal corner
- 09. Polyethylene, self-adhesive sealing tape (PES)*
- 10. Polyethylene caulking foam
- 11. Self-drilling connector for sandwich panels
- 12. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 13. Blind rivet 4,8 x 15,1 (for the structure)
- 14. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of window mounting in a sandwich panel
Type I – horizontal section



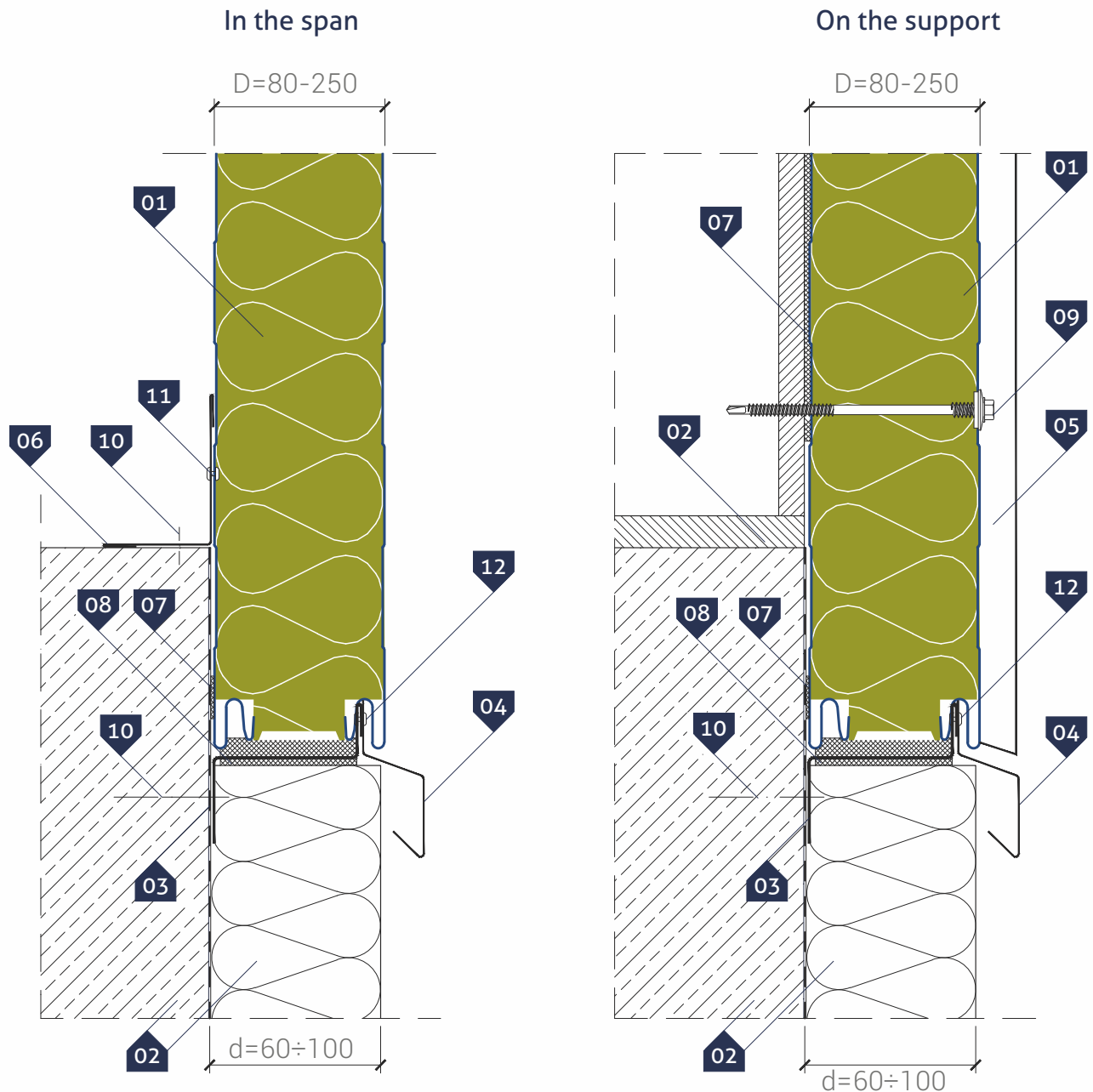
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Transom acc. to structure design
- 03. PVC or aluminium window with a holder and connector
- 04. Individual covering flashing
- 05. Individual internal corner
- 06. Polyethylene, self-adhesive sealing tape (PES)*
- 07. Polyethylene caulking foam
- 08. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 09. Blind rivet 4,8 x 15,1 (for the structure)

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Details of panel connection to ground beam
- Type I



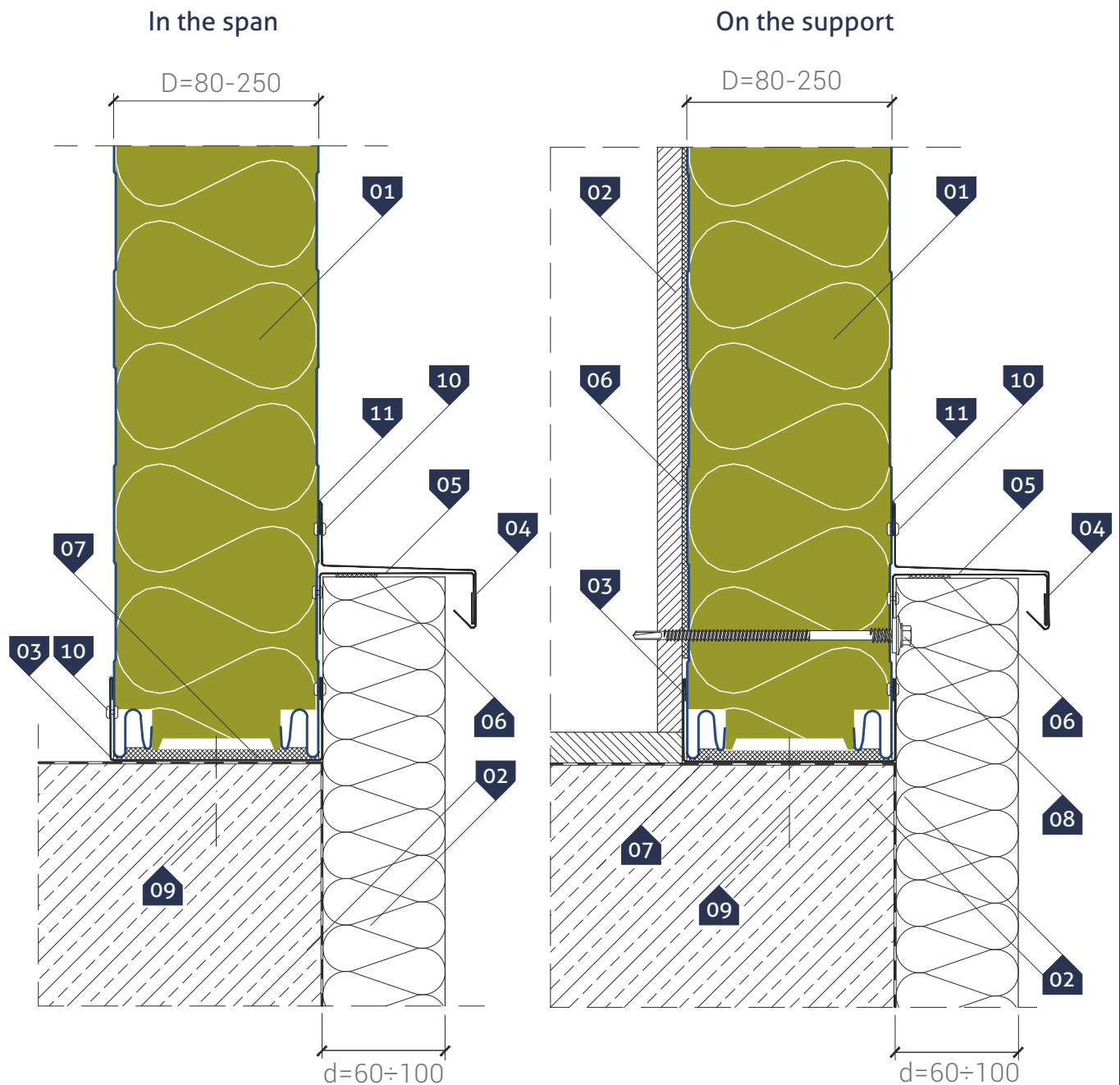
▷ KEY:

01. GS MW wall panel (visible mounting)
02. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
03. Edge Z-bar **OB-38**
04. Drip edge **OB-14**
05. Covering flashing for panel junction
06. Corner flashing **OB-06**
07. Polyethylene, self-adhesive sealing tape (**PES**)*
08. Filling with rock mineral wool
09. Self-drilling connector for sandwich panels
10. Steel expansion joint for quick assembly
11. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
12. Rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Details of panel connection to ground beam
- Type II



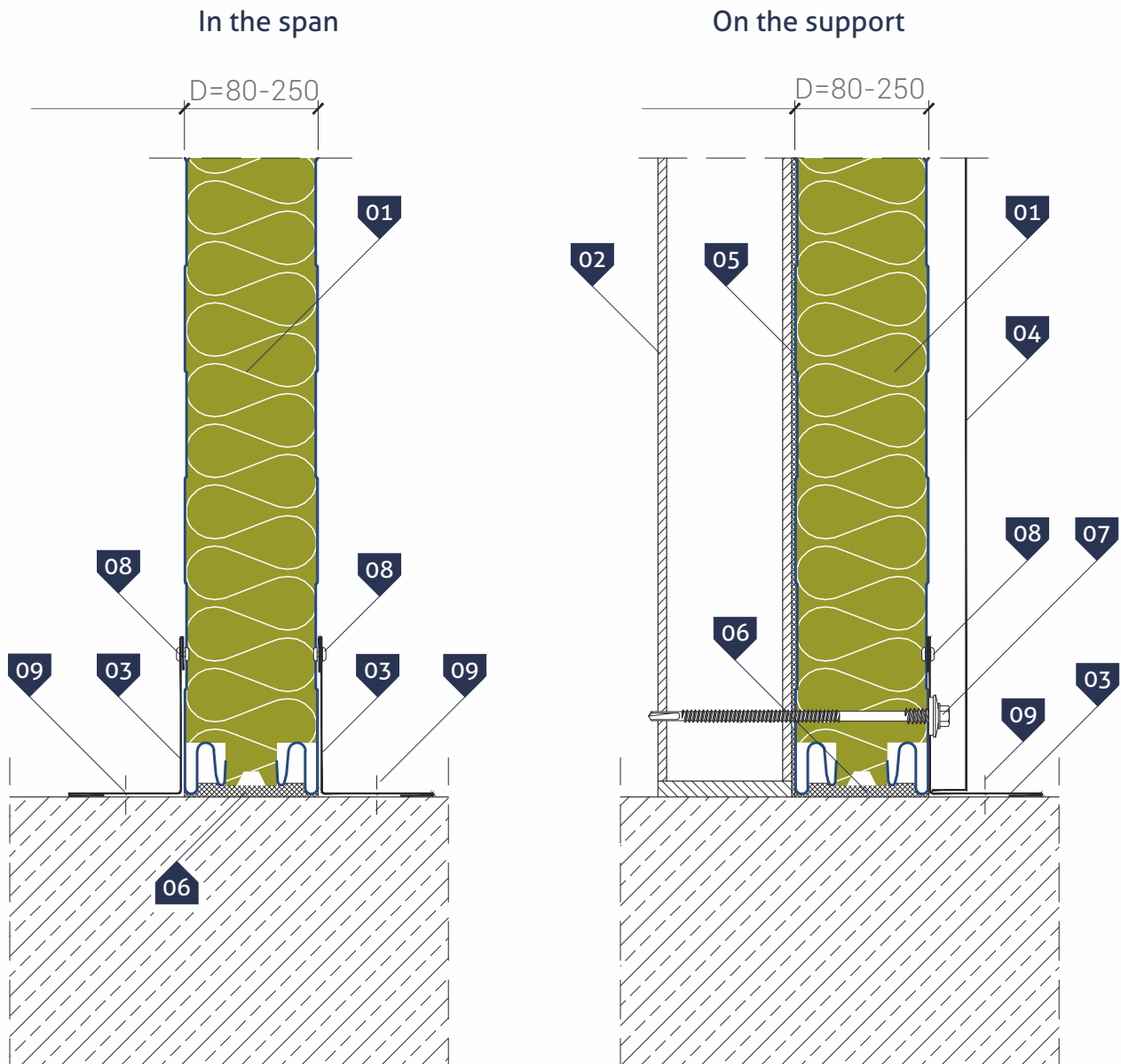
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
- 03. Flashing **OB-42**
- 04. Drip edge **OB-15**
- 05. Rigid flashing **OB-15a**
- 06. Polyethylene, self-adhesive sealing tape (**PES**)*
- 07. Filling with rock mineral wool
- 08. Self-drilling connector for sandwich panels
- 09. Steel expansion joint for quick assembly
- 10. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
- 11. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

▷ HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to flooring



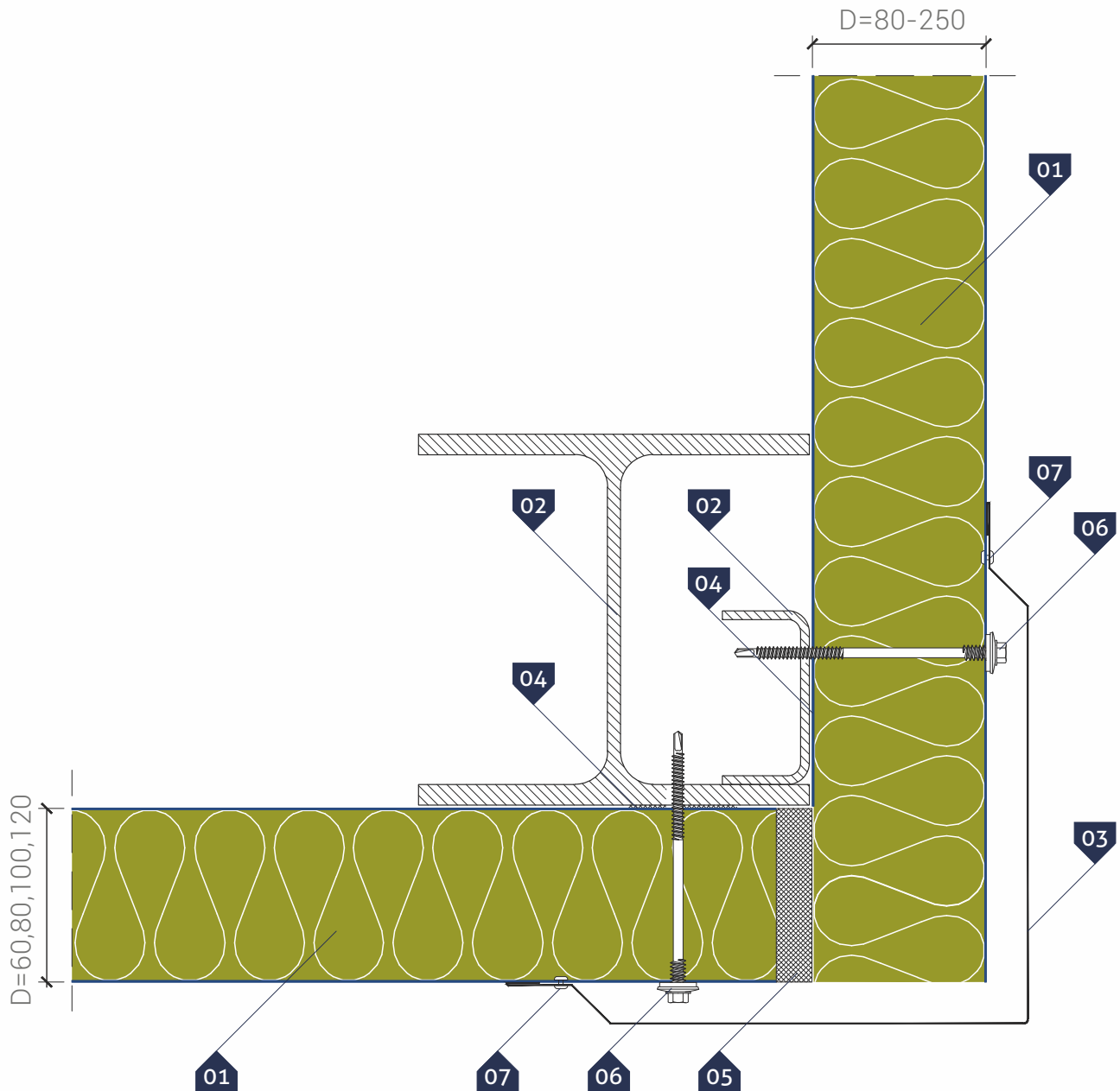
▷ **KEY:**

- 01. GS MW wall panel (visible mounting)
- 02. Steel post acc. to structure design
- 03. Corner flashing **OB-06**
- 04. Covering flashing for panel joints
- 05. Polyethylene, self-adhesive sealing tape (**PES**)*
- 06. Filling with rock mineral wool
- 07. Self-drilling connector for sandwich panels
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
- 09. Steel expansion joint for quick assembly

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of panel connection in a corner



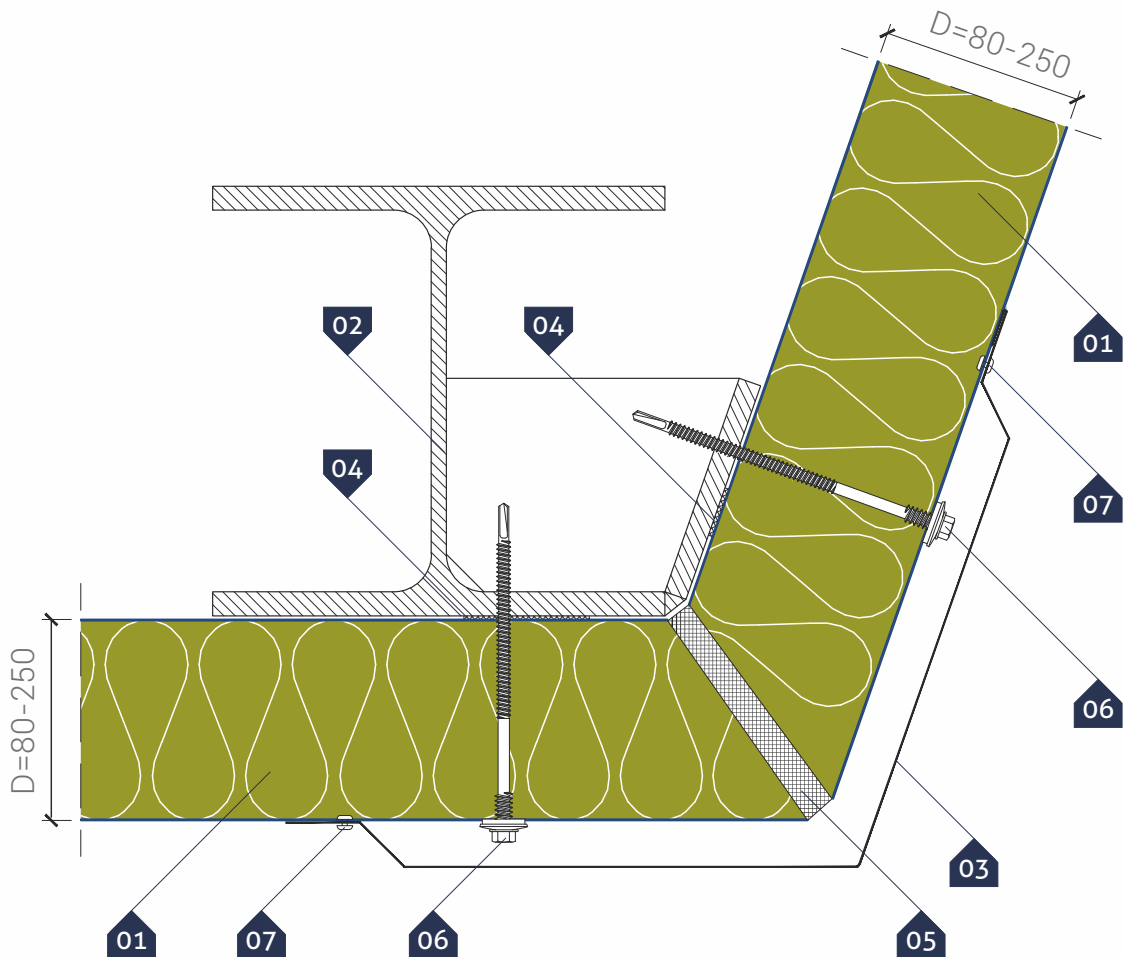
▷ **KEY:**

- 01. GS MW wall panel (visible mounting)
- 02. Steel post acc. to structure design
- 03. Corner flashing **OB-03**
- 04. Polyethylene, self-adhesive sealing tape (**PES**)*
- 05. Filling with rock mineral wool
- 06. Self-drilling connector for sandwich panels
- 07. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of panel connection in an optional angle corner



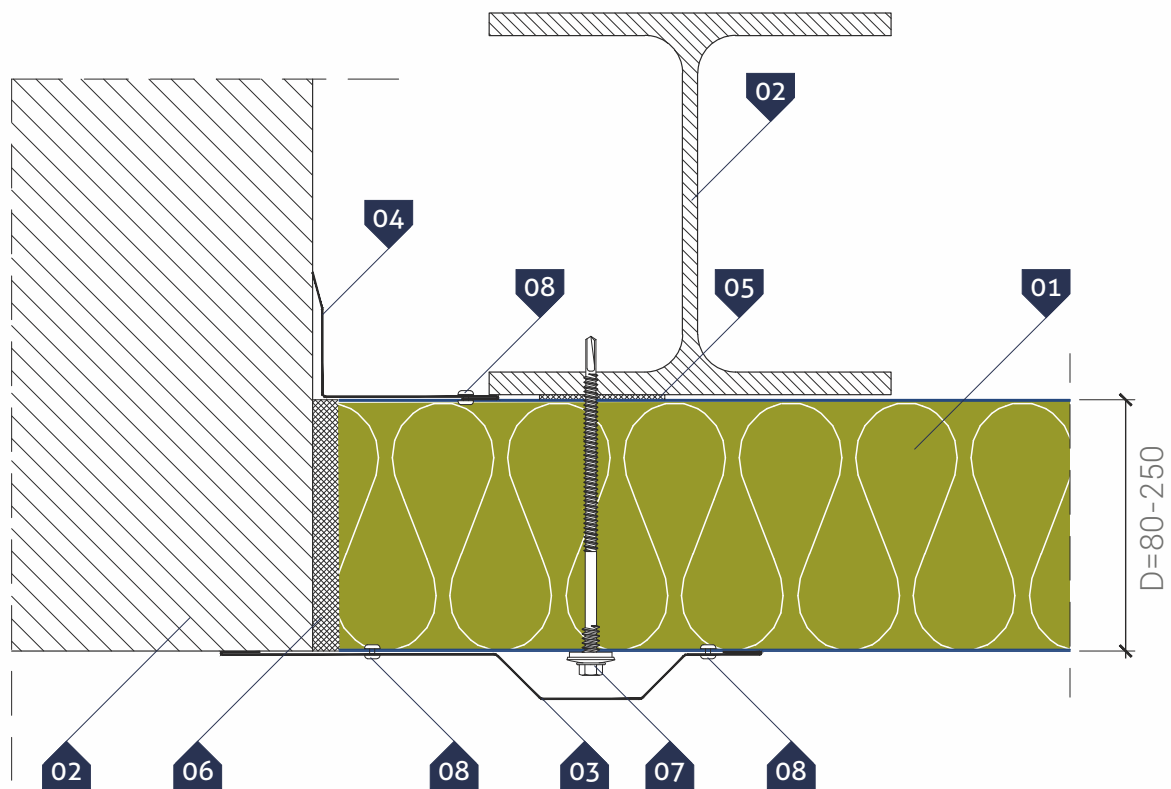
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Steel post acc. to structure design
- 03. Corner flashing **OB-03**
- 04. Polyethylene, self-adhesive sealing tape (PES)*
- 05. Filling with rock mineral wool
- 06. Self-drilling connector for sandwich panels
- 07. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to blockwall



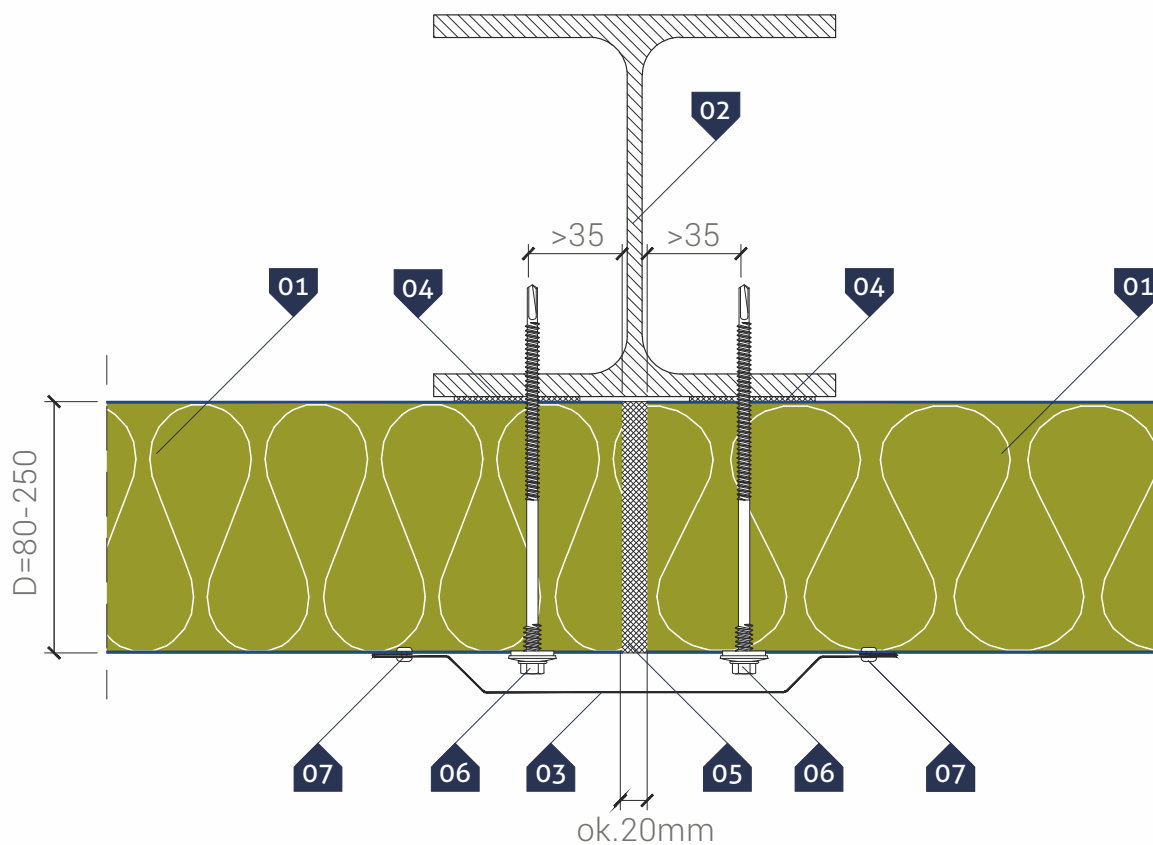
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Blockwall and post acc. to structure design
- 03. Covering flashing **OB-19**
- 04. Inner corner flashing **OB-07**
- 05. Polyethylene, self-adhesive sealing tape (PES)*
- 06. Filling with rock mineral wool
- 07. Self-drilling connector for sandwich panels
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of panel connection to main support



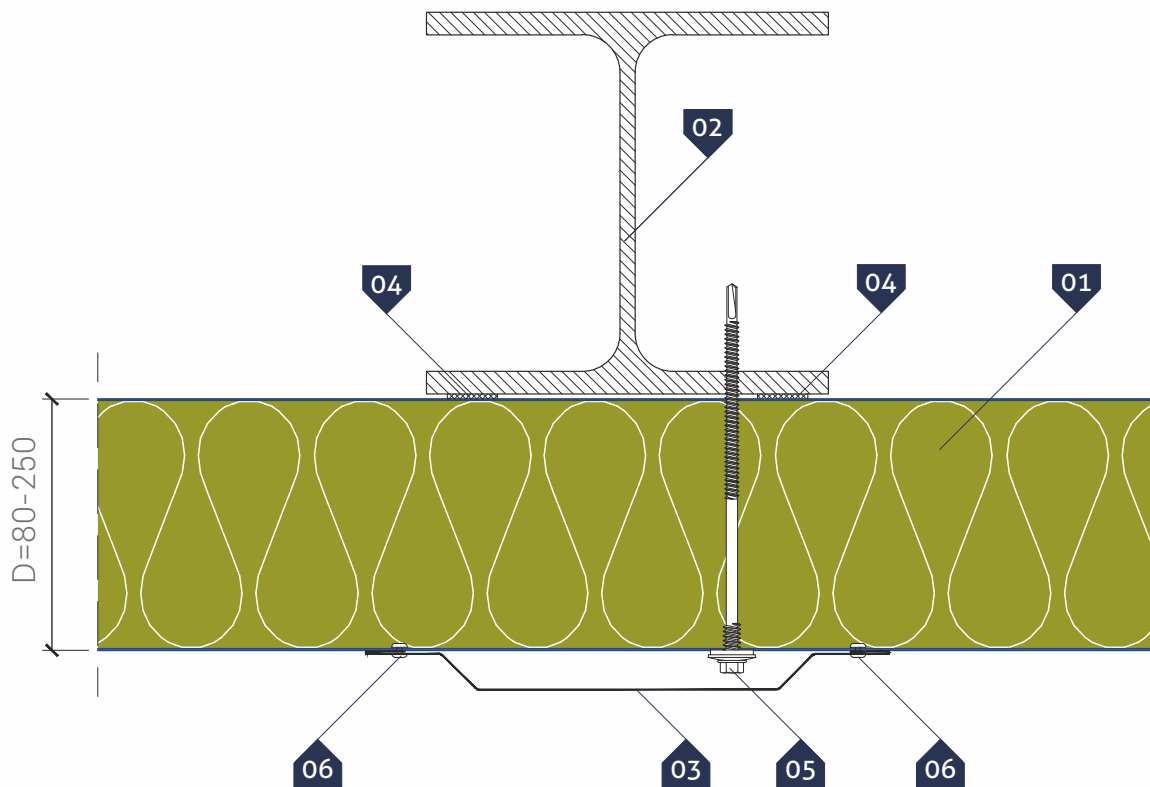
▷ KEY:

01. GS MW wall panel (visible mounting)
02. Steel post acc. to structure design
03. Covering flashin **OB-17**
04. Polyethylene, self-adhesive sealing tape (**PES**)*
05. Filling with rock mineral wool
06. Self-drilling connector for sandwich panels
07. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to intermediate support

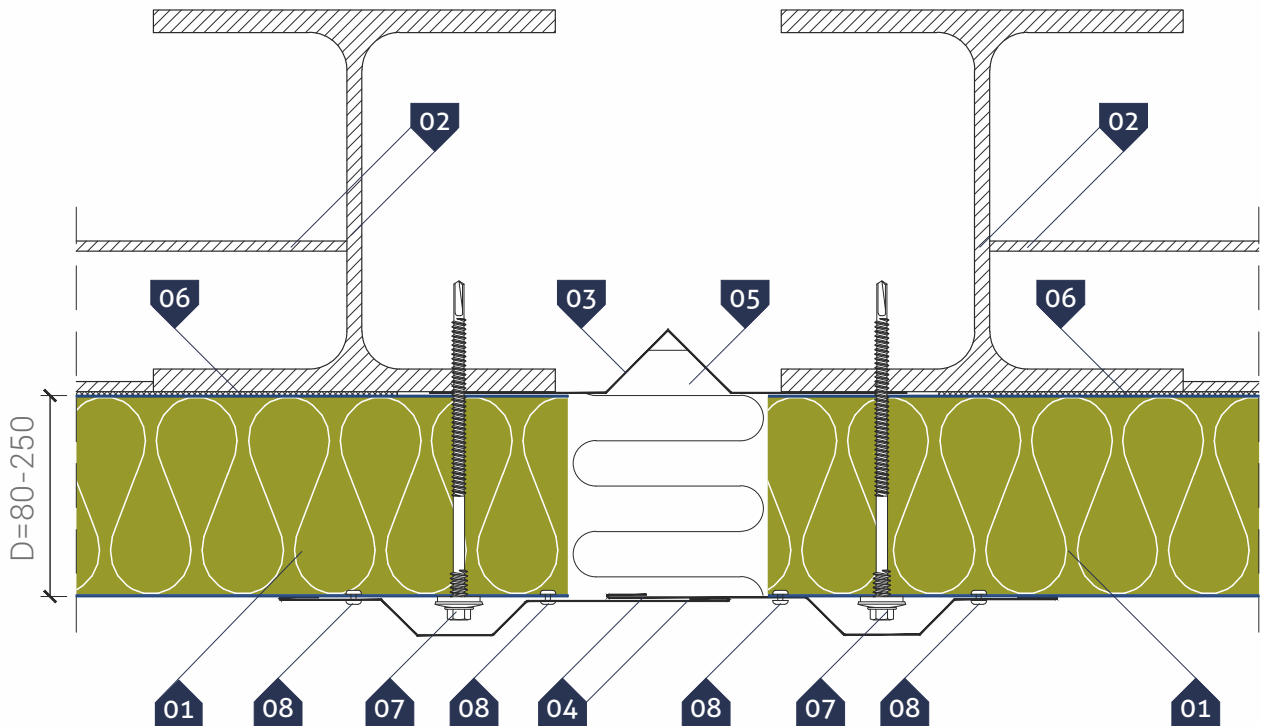


- ▷ **KEY:**
 - 01. GS MW wall panel (visible mounting)
 - 02. Steel post acc. to structure design
 - 03. Covering flashin **OB-17**
 - 04. Polyethylene, self-adhesive sealing tape (**PES**)*
 - 05. Self-drilling connector for sandwich panels
 - 06. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

▷ HORIZONTAL ARRANGEMENT of panels
Detail of buildings expansion joint



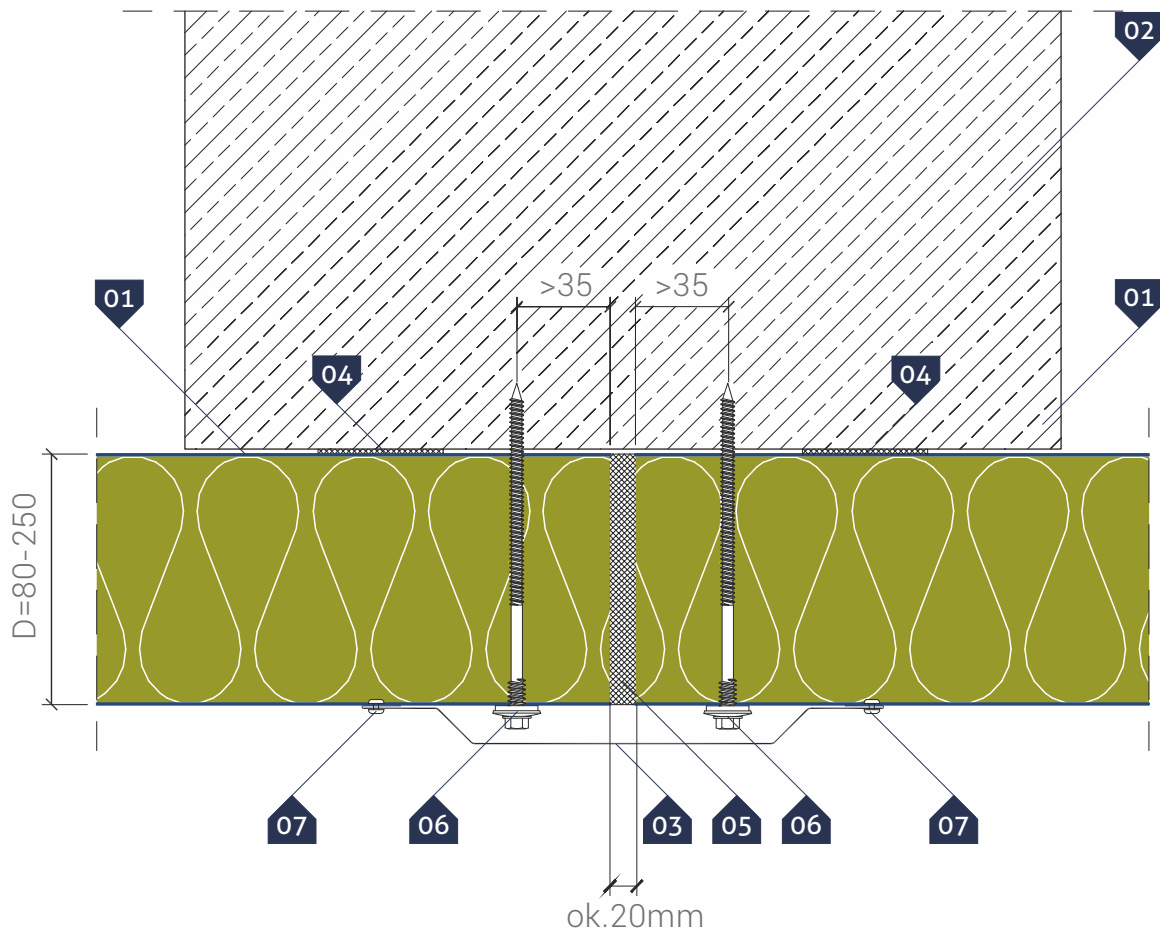
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Steel posts and transom acc. to structure design
- 03. Individual expansion joint flashing
- 04. Drip edge **OB-17**
- 05. Thermal insulation on the fastening
- 06. Polyethylene, self-adhesive sealing tape (**PES**)*
- 07. Self-drilling connector for sandwich panels
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to reinforced concrete support



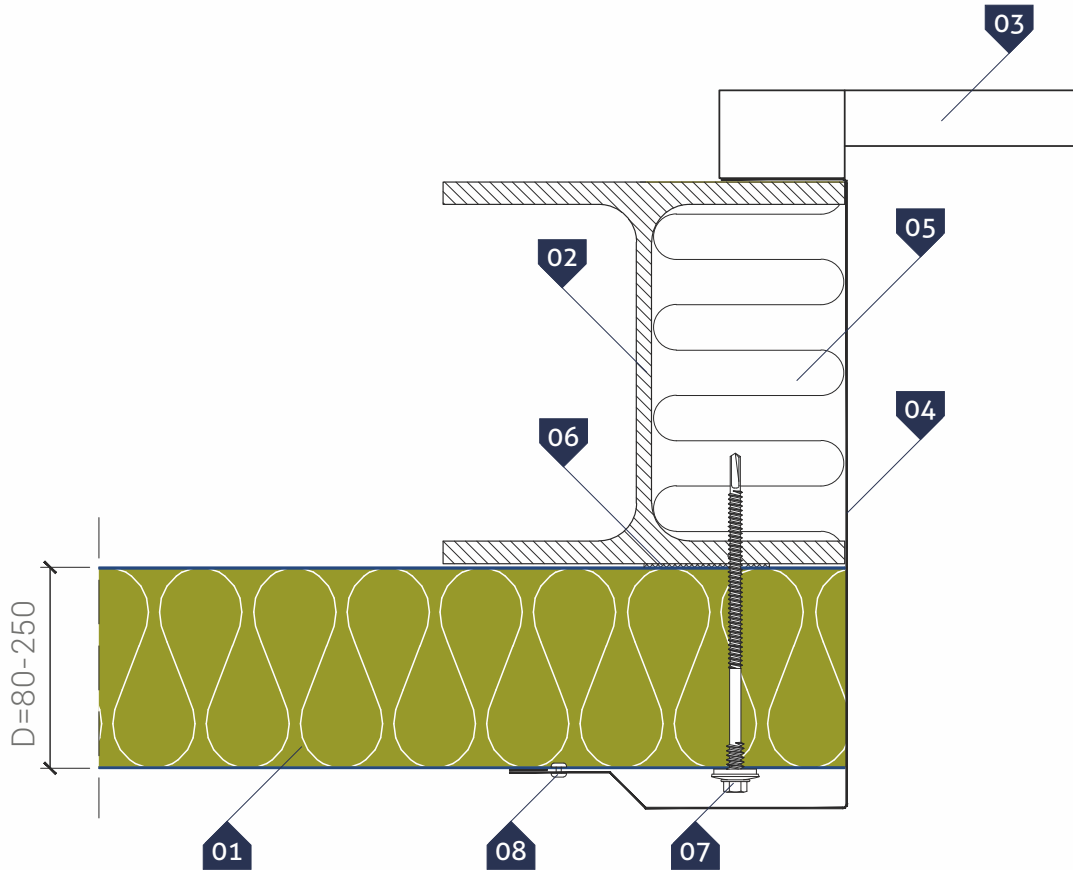
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Reinforced concrete column acc. to structure design
- 03. Covering flashing **OB-17**
- 04. Polyethylene, self-adhesive sealing tape (**PES**)*
- 05. Filling with rock mineral wool
- 06. Connector for fastening of sandwich panels to concrete
- 07. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of post to roller shutter door



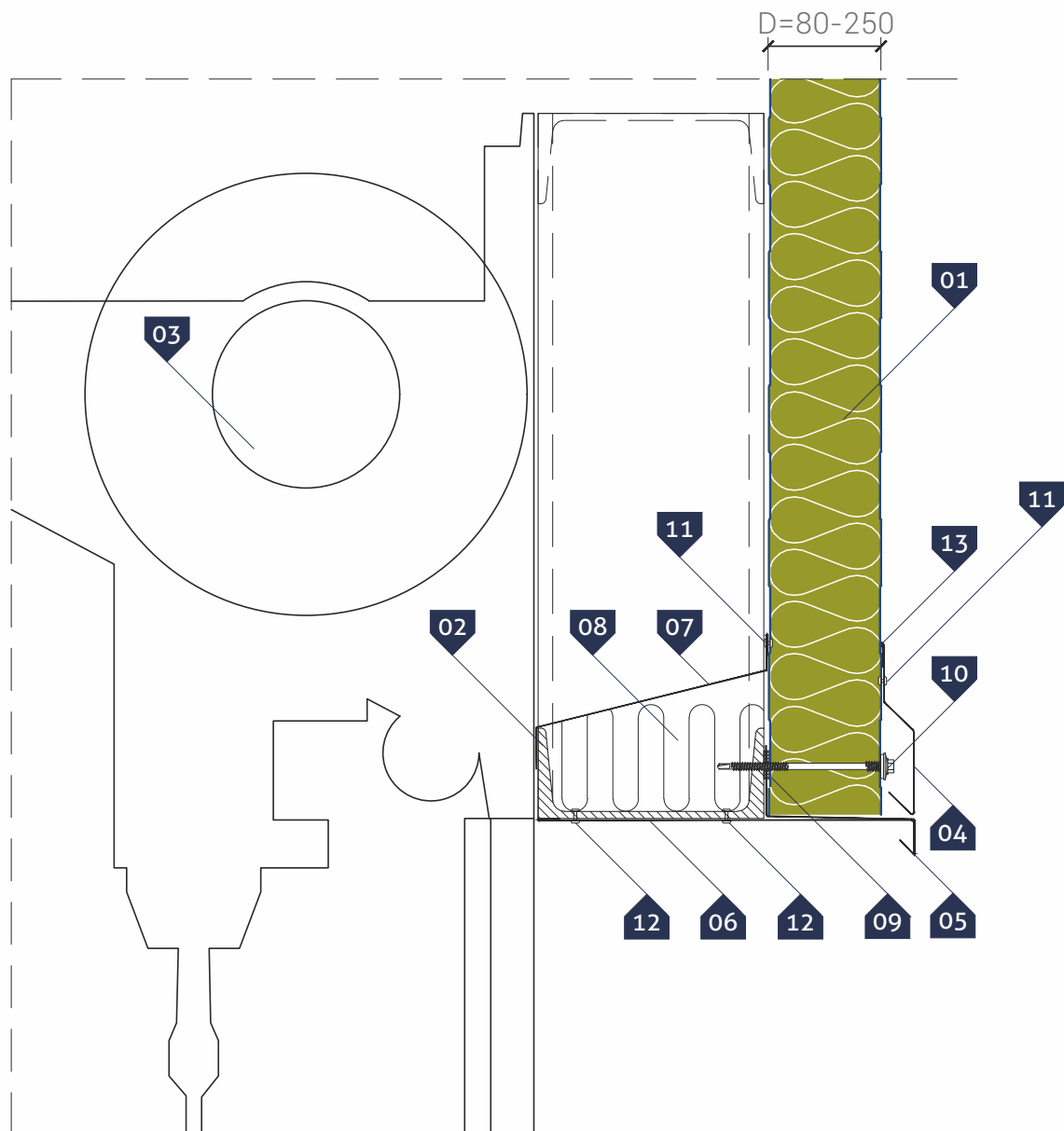
▷ KEY:

01. GS MW wall panel (visible mounting)
02. Steel post acc. to structure design
03. Roller shutter door
04. Door flashing **OB-21**
05. Thermal insulation on the fastening
06. Polyethylene, self-adhesive sealing tape (**PES**)*
07. Self-drilling connector for sandwich panels
08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of roller shutter door lintel



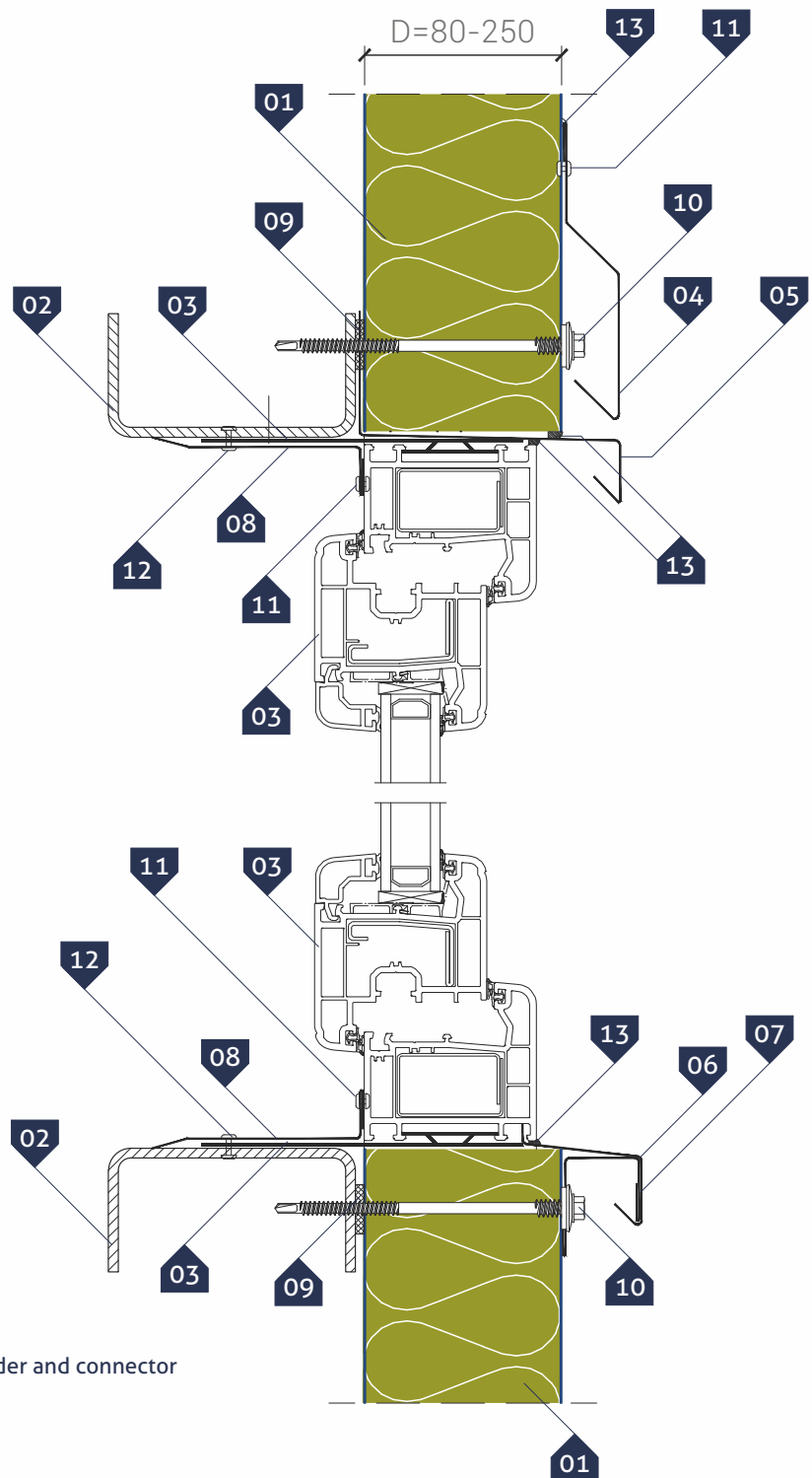
▷ **KEY:**

- 01. **GS MW** wall panel (visible mounting)
- 02. Transom acc. to structure design
- 03. Roller shutter door
- 04. Drip edge **OB-10**
- 05. Drip edge **OB-13**
- 05. Drip edge **OB-20**
- 07. Individual covering flashing
- 08. Thermal insulation on the fastening
- 09. Polyethylene, self-adhesive sealing tape (**PES**)*
- 10. Self-drilling connector for sandwich panels
- 11. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
- 12. Blind rivet **4,8 x 15,1** (for the structure)
- 13. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of window mounting in a sandwich panel
- Type I – verticle section



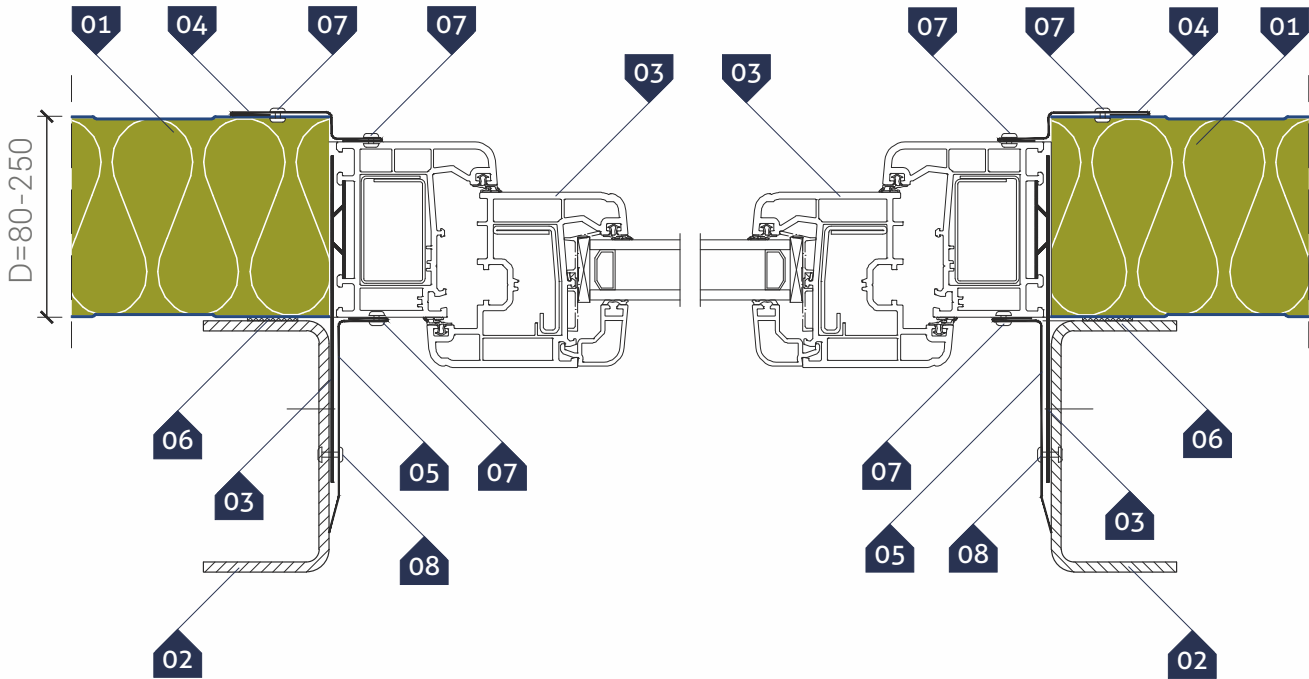
▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Transom acc. to structure design
- 03. PCV or aluminium window with a holder and connector
- 04. Drip edge OB-10
- 05. Drip edge OB-13
- 06. Cill OB-37
- 07. Rigid flashing OB-16
- 08. Individual internal corner
- 09. Polyethylene, self-adhesive sealing tape (PES)*
- 10. Self-drilling connector for sandwich panels
- 11. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 12. Blind rivet 4,8 x 15,1 (for the structure)
- 13. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW S / GS MW CH (visible connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of window mounting in a sandwich panel
Type I - horizontal section



▷ KEY:

- 01. GS MW wall panel (visible mounting)
- 02. Transom acc. to structure design
- 03. PVC or aluminium window with a holder and connector
- 04. Individual covering flashing
- 05. Individual internal corner
- 06. Polyethylene, self-adhesive sealing tape (PES)*
- 07. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 08. Blind rivet 4,8 x 15,1 (for the structure)

* - a recommended item

▷ APPLICATION

GS MW U wall panels are intended for the construction of walls with the required fire resistance in frame structures. Compatibility of the locks with GS insPIRe panels allows for the production of, for example, 2-meter cross belts at fire partition walls or enclosures at emergency doors. Panels can be mounted in both vertical and horizontal position, as single-span or multi-span wall elements. Hidden cam-lock, which is not visible from the outside makes the elevation look very functional and attractive architecturally.

▷ PHYSICAL PROPERTIES

GS MW U wall panel is produced in the three thicknesses of the core: **80, 100 i 120 mm**. Panel facings are made of sheet metal galvanised on both sides according to **EN 10346** with organic polyester coating **25µm** thick. In sandwich panels, rock wool with a density of **105 kg/m³ (+/-10%)** and a design thermal conductivity coefficient of **λ=0,044 W/m·K** is used as the core. The core of rock mineral wool (material with reaction to fire class A) allows to obtain high fire resistance classes of GS sandwich panels with mineral wool. The modular widths of the panels are: 1000 mm, and their standard lengths range from **2,0 m to 16,0 m**. The tightness of panel joints is ensured by appropriately designed panel locks.

Thickness [mm]	Weight [kg/m ²]		Modular width [mm]	Length: typical/available [m]	Lining standard RAL colours	
	facings 0,6/0,6 mm**	facings 0,5/0,6 mm**			external linings*	internal linings*
80	19,1	18,2	1000	2,0 - 12,0 / 16,5	3000, 5010, 6011, 7016, 7035, 8017, 9002, 9006, 9007,9010	9002, 9010
100	21,2	20,3				
120	23,3	22,4				

* available colors depending on the thickness of the cladding, panels thicknesses and modular widths (details from the Sales Representative)

**typical lining thicknesses; also available 0.6 and 0.7 mm (details from our Sales Representative)

The fire resistance class depends on the core thickness and the lock type and is characterized by the fire resistance class (values given in the table below). Acoustic parameters were determined on the basis of **EN ISO 10140-3** and **EN-ISO 354**. Wall panels can be used for partitions with acoustic insulation requirements lower than those given below. Chemical corrosion resistance - sandwich panels can be used in environments with atmospheric corrosivity categories C1, C2, C3 according to **EN ISO 12944-2**.

▷ TECHNICAL PARAMETERS OF WOOL CORE

Thickness [mm]	Heat-transfer coefficient U _{d,s} [W/m ² ·K]	Acoustic insulation	Reaction to fire	Fire resistance	NRO
	EN 14509	EN ISO 717-1	EN 13501-1	EN 13501-2	PN-B-02867
80	0,56*	NPD	A2-s1,d0	NPD	„NRO“
100	0,44*				
120	0,37*	32(-2;-3)		EI 120	

* value of U-factor for traditional core panels with a coefficient of λ=0,044 W/m·K

▷ PACKING

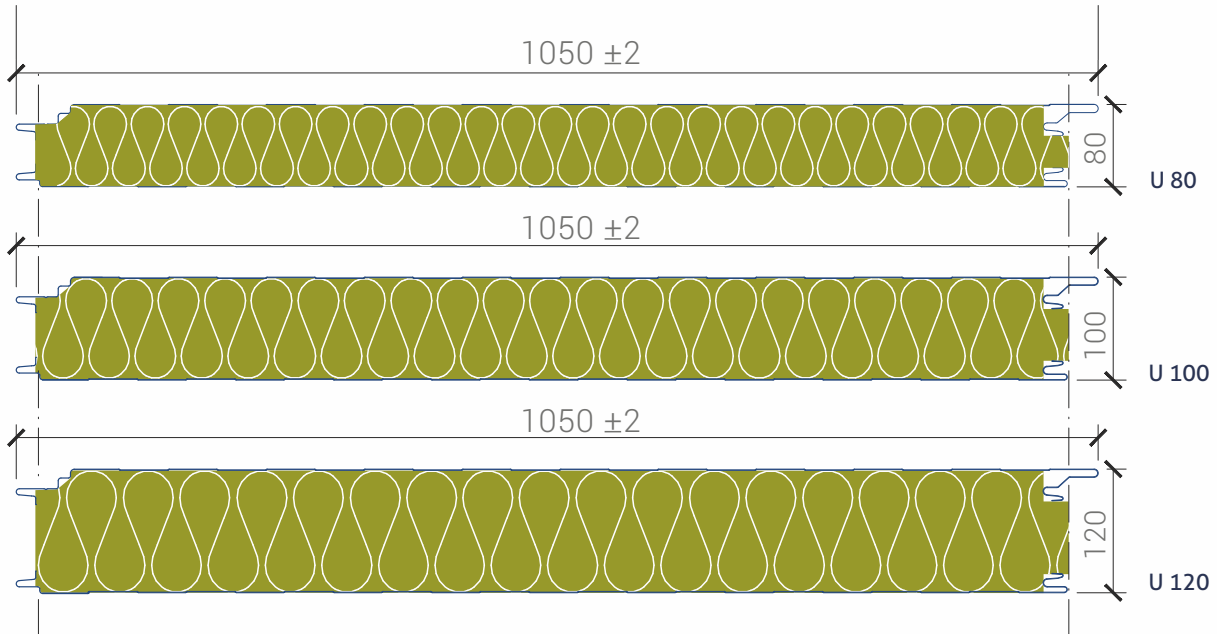
GS MW U sandwich panels are provided in packs on pallets allowing for their relocation. The table below specifies number of panels in a pack depending on panel thickness.

Panel thickness [mm]	80	100	120
Maximum number of panels in one pack	14	11	9

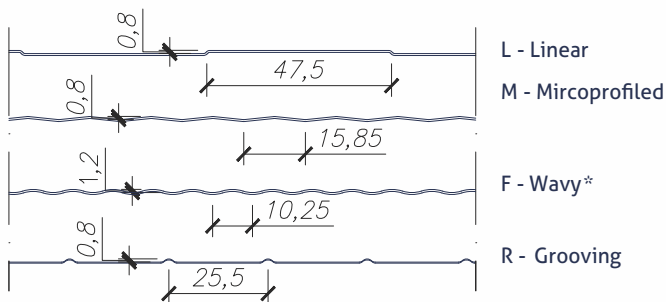
Wall sandwich panel GS MW U (hidden connector)

- ▷ GS MW U panel manufacturing program:
 - ▷ panel thicknesses
 - ▷ profiles of outer and inner facing

▷ PANEL THICKNESS

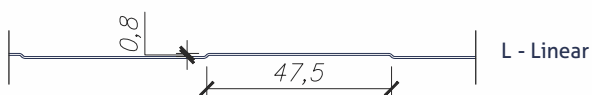


External lining profiles



* - Profiling used for new orders as of February 2020. In the case when ordering panels for existing casings, please state this fact when placing the order and provide the previous order number as a reference.

Internal lining profiles



▷ **TABLE OF ALLOWED LOADS FOR GS MW U SANDWICH PANEL**

The tables have been prepared in accordance with **EN 14509** for panels with a rock mineral wool core with light facings of a thickness of 0.5 / 0.6 mm for indoor temp. **T=20°C**. The deflection condition was assumed to be **L / 100**. For other data, separate calculations should be made. The minimum width of supports **40/60** mm. Number of connectors: **2 + 1 x PM-1** for the support. Detailed tables of permissible loads are available on the website.

GS MW U mounted as a single-span element, loaded in direction: to support (pressure)

Panel thickness	The load due to:	The maximum load [kN/m ²] on the span length [m]:										
		1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5
80	SGN (q _d)	3,91	2,94	2,35	1,96	1,68	1,47	0,93	0,75	0,62	0,53	0,45
	SGU (q _k)	10,85	6,74	4,38	2,94	2,02	1,42	1,02	0,74	0,54	0,40	0,30
100	SGN (q _d)	4,39	3,29	2,63	2,19	1,88	1,65	1,46	0,86	0,71	0,60	0,51
	SGU (q _k)	13,62	8,81	5,97	4,17	2,98	2,17	1,60	1,20	0,91	0,70	0,54
120	SGN (q _d)	5,66	4,25	3,40	2,83	2,43	2,12	1,05	0,85	0,70	0,59	0,50
	SGU (q _k)	10,88	6,93	5,01	3,73	2,84	2,19	1,71	1,35	1,07	0,86	0,69

Grubość płyty	The load due to:	The maximum load [kN/m ²] on the span length [m]:										
		1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5
80	SGN (q _d)	3,91	2,94	2,35	1,96	1,68	1,47	1,47	1,19	0,99	0,83	0,70
	SGU (q _k)	11,23	7,06	4,66	3,18	2,23	1,60	1,16	0,86	0,65	0,50	0,38
100	SGN (q _d)	4,39	3,29	2,63	2,19	1,88	1,65	1,46	1,50	1,23	1,04	0,89
	SGU (q _k)	13,99	9,14	6,26	4,42	3,20	2,36	1,77	1,35	1,04	0,81	0,64
120	SGN (q _d)	5,66	4,25	3,40	2,83	2,43	2,12	2,22	1,79	1,48	1,25	1,06
	SGU (q _k)	10,31	7,14	5,21	3,92	3,01	2,35	1,85	1,48	1,19	0,96	0,79

GS MW U mounted as a multi-span element, loaded in direction: to support (pressure)

Panel thickness	The load due to:	The maximum load [kN/m ²] on the span length [m]:										
		1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5
80	SGN (q _d)	2,48	1,88	1,53	1,30	1,13	0,82	0,62	0,48	0,38	0,31	0,26
	SGU (q _k)	11,98	8,16	5,88	4,33	3,25	2,49	1,93	1,52	1,20	0,96	0,78
100	SGN (q _d)	2,22	1,71	1,41	1,21	1,06	0,94	0,83	0,64	0,51	0,41	0,34
	SGU (q _k)	14,55	10,05	7,41	5,62	4,33	3,39	2,68	2,15	1,75	1,43	1,17
120	SGN (q _d)	2,66	1,99	1,60	1,35	1,17	1,04	0,93	0,85	0,73	0,59	0,48
	SGU (q _k)	10,35	7,33	5,54	4,35	3,53	2,91	2,41	2,01	1,69	1,44	1,22

Panel thickness	The load due to:	The maximum load [kN/m ²] on the span length [m]:										
		1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5
80	SGN (q _d)	2,66	2,00	1,30	0,76	0,48	0,33	0,23	0,17	0,13	0,11	-
	SGU (q _k)	12,25	8,38	6,05	4,47	3,38	2,60	2,03	1,60	1,28	1,04	0,85
100	SGN (q _d)	2,39	1,83	1,49	0,85	0,51	0,33	0,22	0,16	0,11	-	-
	SGU (q _k)	14,83	10,28	7,59	5,77	4,46	3,51	2,79	2,25	1,83	1,50	1,25
120	SGN (q _d)	2,28	1,71	1,37	0,82	0,50	0,33	0,20	0,11	-	-	-
	SGU (q _k)	10,54	7,49	5,67	4,48	3,64	3,00	2,49	2,09	1,76	1,50	1,28

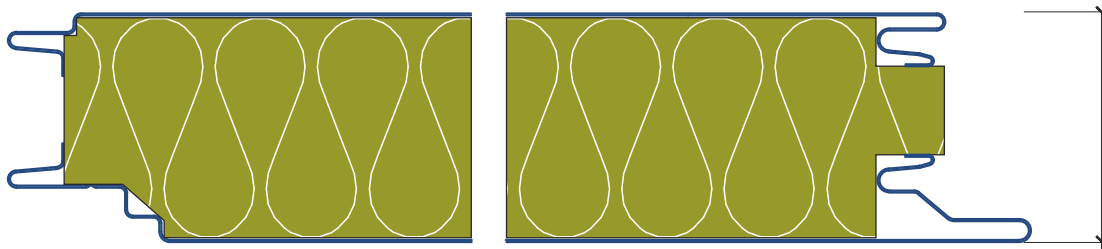
Selected details of cladding made of **GS MW U** sandwich panels

Shape of cam-lock. Details of panel connection	043
Details of panel connection. PM1 spacer	044
VERTICAL ARRANGEMENT of panels	
Details of panel connection to ground beam - Type I	045
Details of panel connection to ground beam - Type II	046
Detail of panel connection to flooring	047
Detail of panel connection in a corner - Type I	048
Detail of panel connection in an optional angle corner	049
Detail of panel connection to blockwall	050
Detail of buildings expansion joint	051
Detail of steel post in a rolller shutter door	052
Detail of roller shutter door lintel	053
Detail of window mounting in a sandwich panel - Type I - vertical section	054
Detail of window mounting in a sandwich panel- Type I - horizontal section	055
HORIZONTAL ARRANGEMENT of panels	
Details of panel connection to ground beam - Type I	056
Details of panel connection to ground beam- Type II	057
Details of panel connection to ground beam - Type III	058
Detail of panel connection to flooring	059
Detail of panel connection in a corner	060
Detail of panel connection in an optional angle corner	061
Detail of panel connection to blockwall	062
Detail of panel connection to reinforced concrete support	063
Detail of panel connection to main support	064
Detail of panel connection to intermediate support	065
Detail of post to roller shutter door	066
Detail of roller shutter door lintel	067
Detail of window mounting in a sandwich panel - Type I - vertical section	068
Detail of window mounting in a sandwich panel - Type I - horizontal section	069

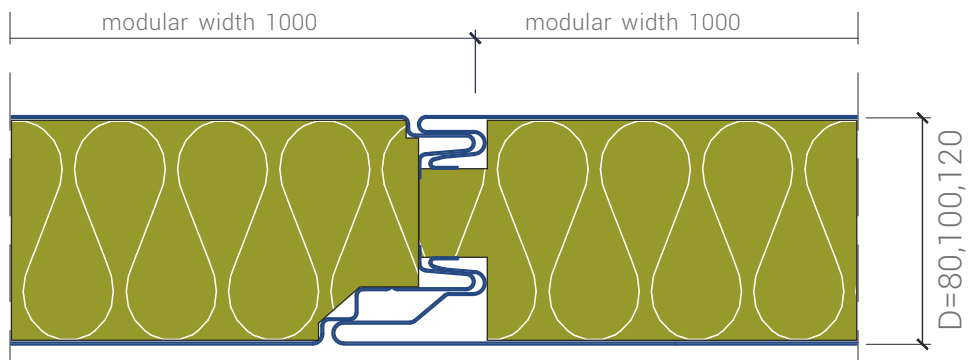
Wall sandwich panel GS MW U (hidden connector)

- ▷ Shape of cam-lock
- Details of panel connection

Shape of panels cam-lock



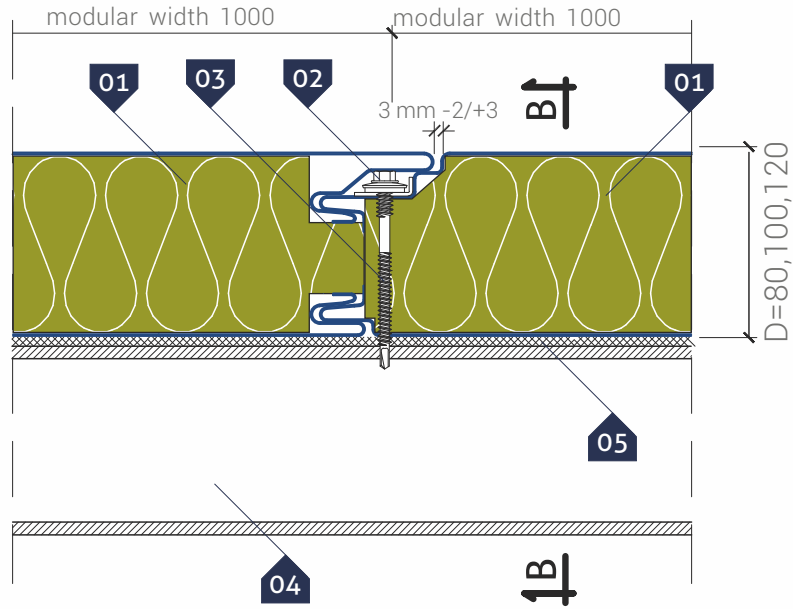
Detail of connection between two panels



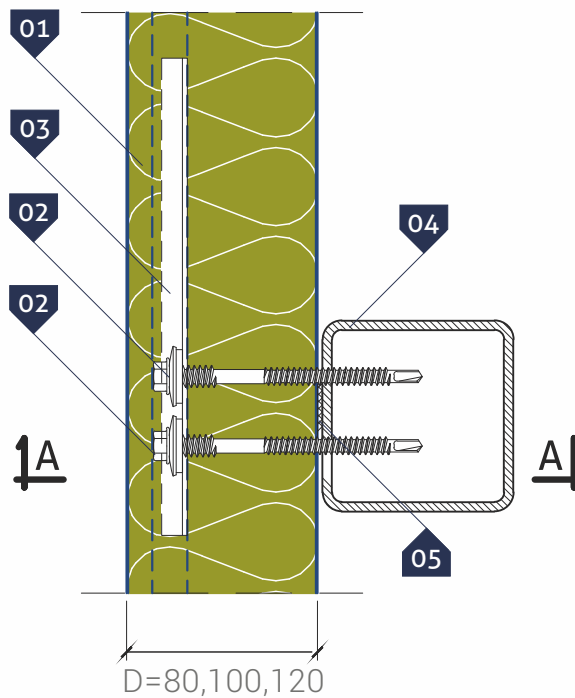
Wall sandwich panel GS MW U (hidden connector)

Details of panel connection
PM1 spacer

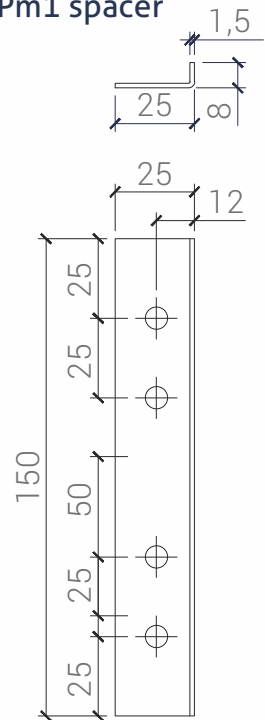
Detail of panel connection



B-B cross-section



Pm1 spacer



KEY:

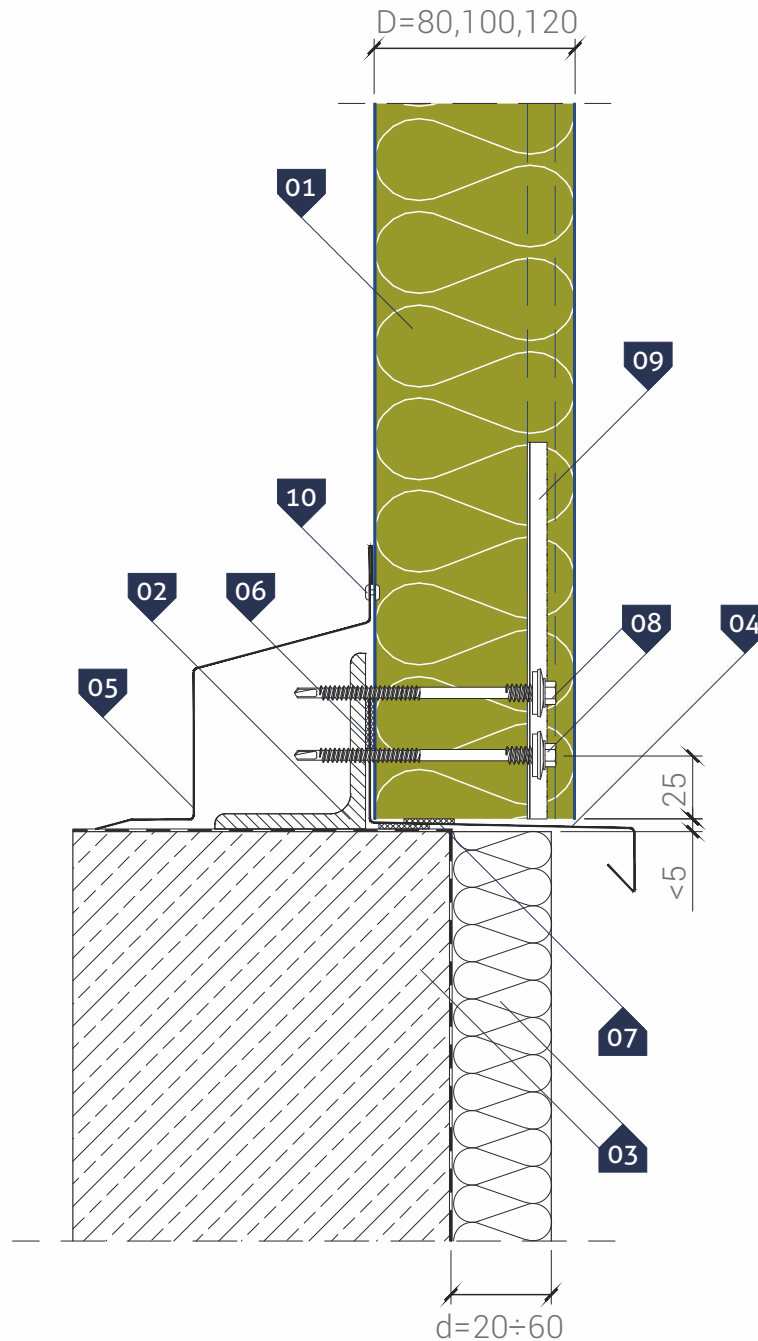
- 01. GS MW U wall panel (hidden fastening)
- 02. Self-drilling connector for sandwich panels
- 03. PM1 spacer
- 04. Bolt acc. to the construction design
- 05. Polyethylene sealing tape, self-adhesive (PES) *

NOTE: Fasten each panel along its width to a structure with a minimum of two connectors

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
Details of panel connection to ground beam
Type I

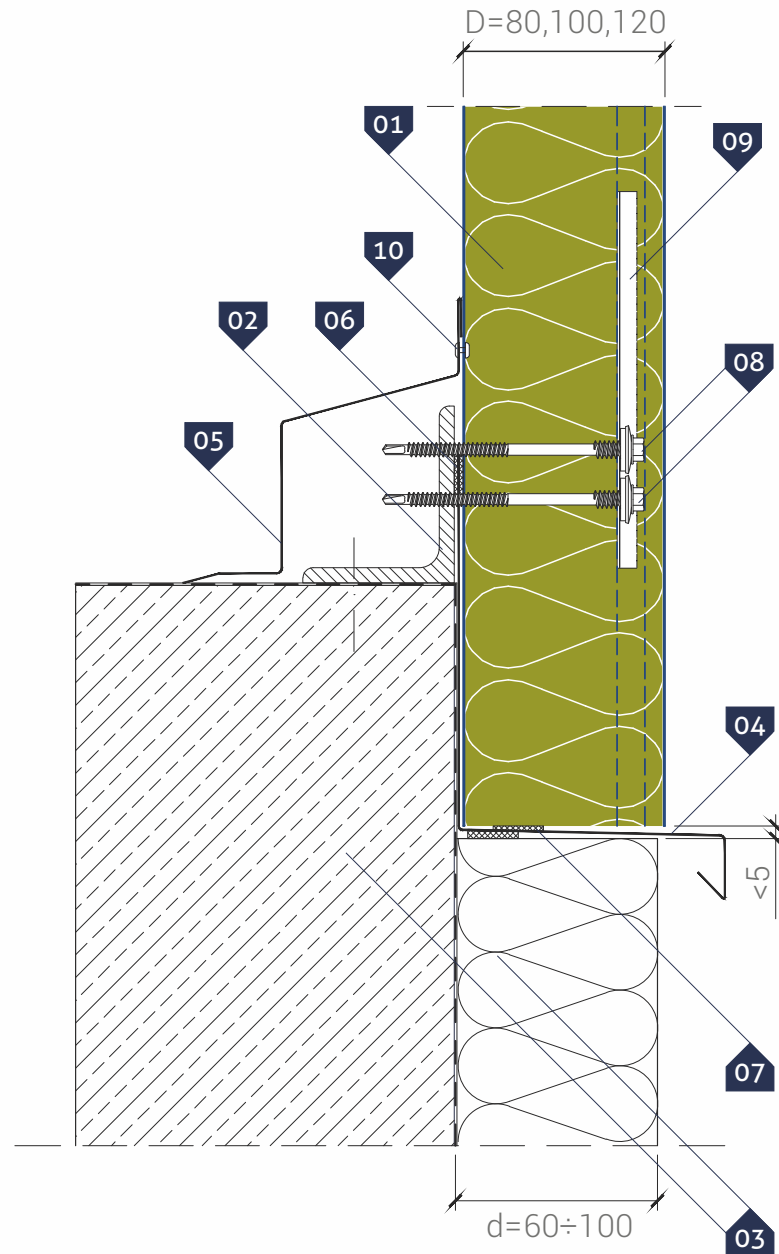


- ▷ **KEY:**
 - 01. GS MW U wall panel (hidden fastening)
 - 02. Steel section acc. to structure design
 - 03. Ground beam with insulation and thermal insulation acc. to detailed design
 - 04. Drip edge **OB-13**
 - 05. Covering flashing **OB-09**
 - 06. Polyethylene, self-adhesive sealing tape (**PES**)*
 - 07. Impregnated polyurethane seal
 - 08. Self-drilling connector for sandwich panels
 - 09. **PM1** spacer
 - 10. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
- Details of panel connection to ground beam
- Type II

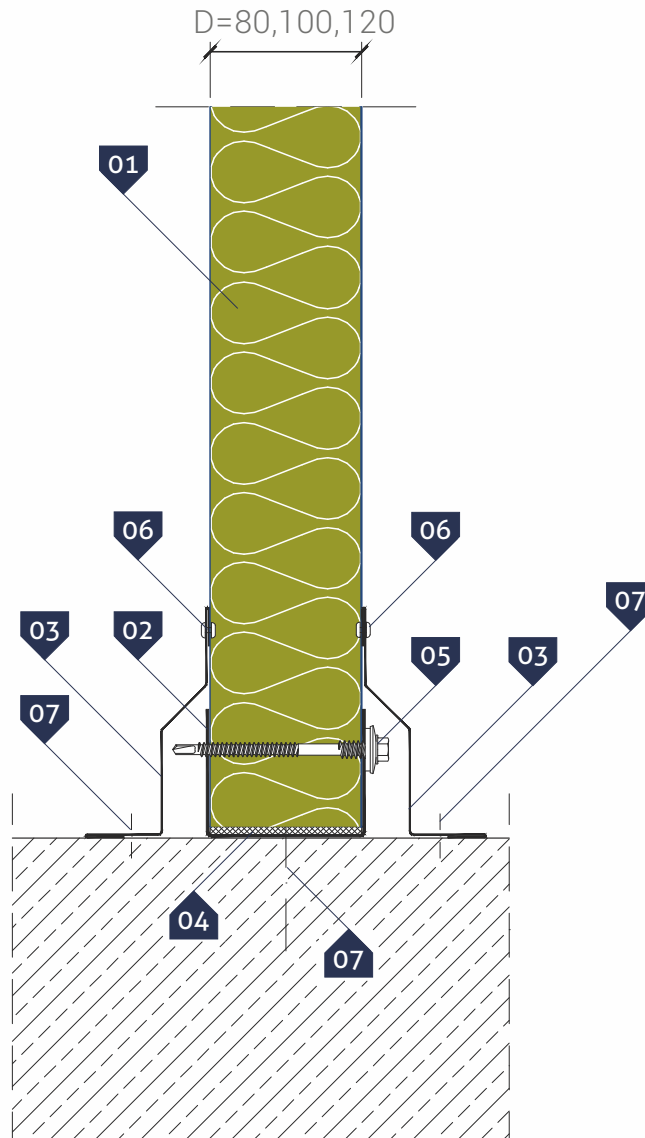


- ▷ **KEY:**
- 01. **GS MW U** wall panel (hidden fastening)
- 02. Steel section acc. to structure design
- 03. Ground beam with insulation and thermal insulation acc. to detailed design
- 04. Eaves **OB-13** (extended)
- 05. Covering flashing **OB-09**
- 06. Polyethylene, self-adhesive sealing tape (**PES**)*
- 07. Impregnated polyurethane seal
- 08. Self-drilling connector for sandwich panels
- 09. **PM1** spacer
- 10. Tight blind rivet **4,0 x 8,0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of panel connection to flooring

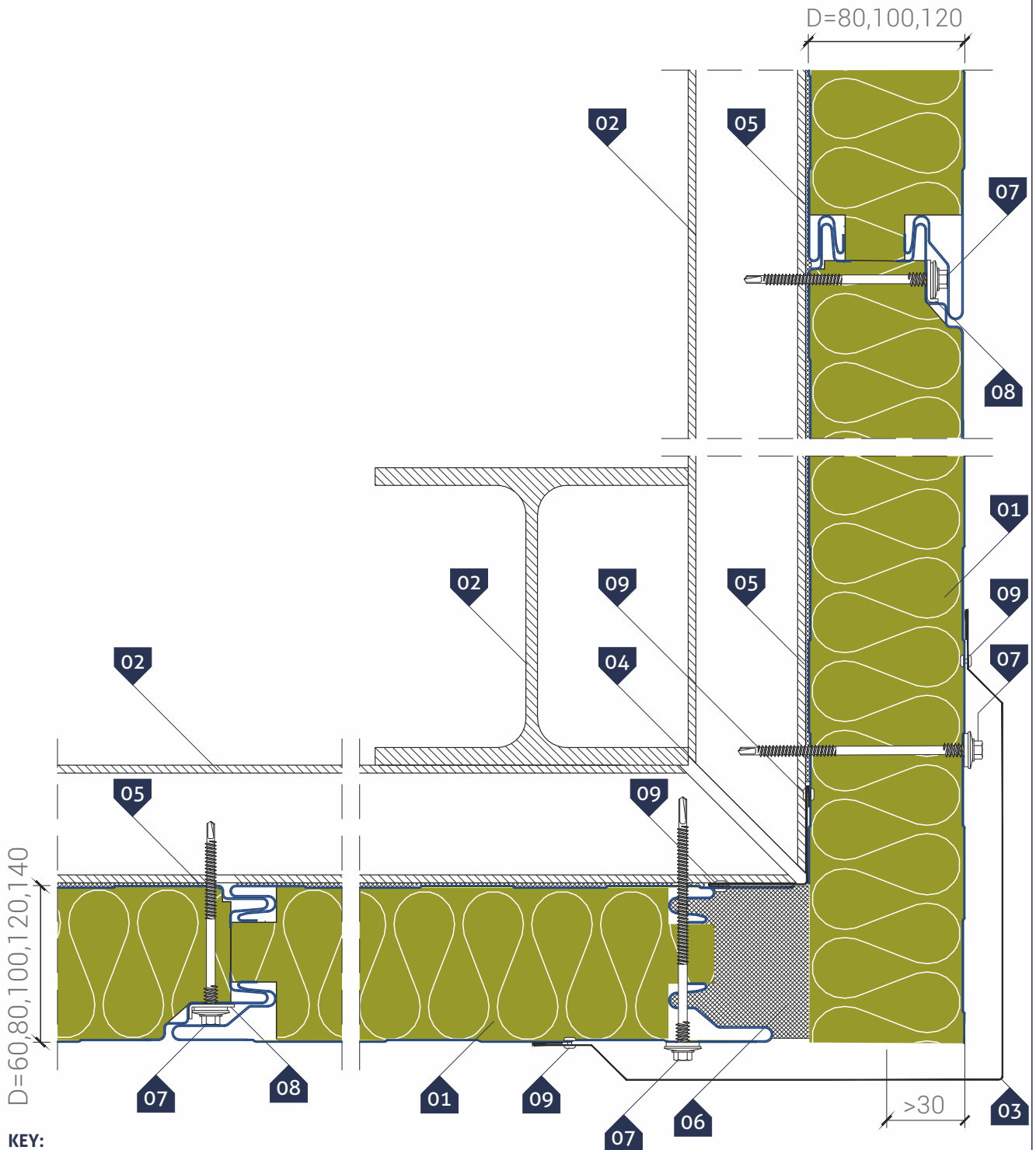


▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Edge channel section OB-42
- 03. Covering flashing OB-05
- 04. Filling with rock mineral wool
- 05. Self-drilling connector for sandwich panels
- 06. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 07. Steel expansion joint for fast assembly

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
- Detail of panel connection in a corner
- Type I

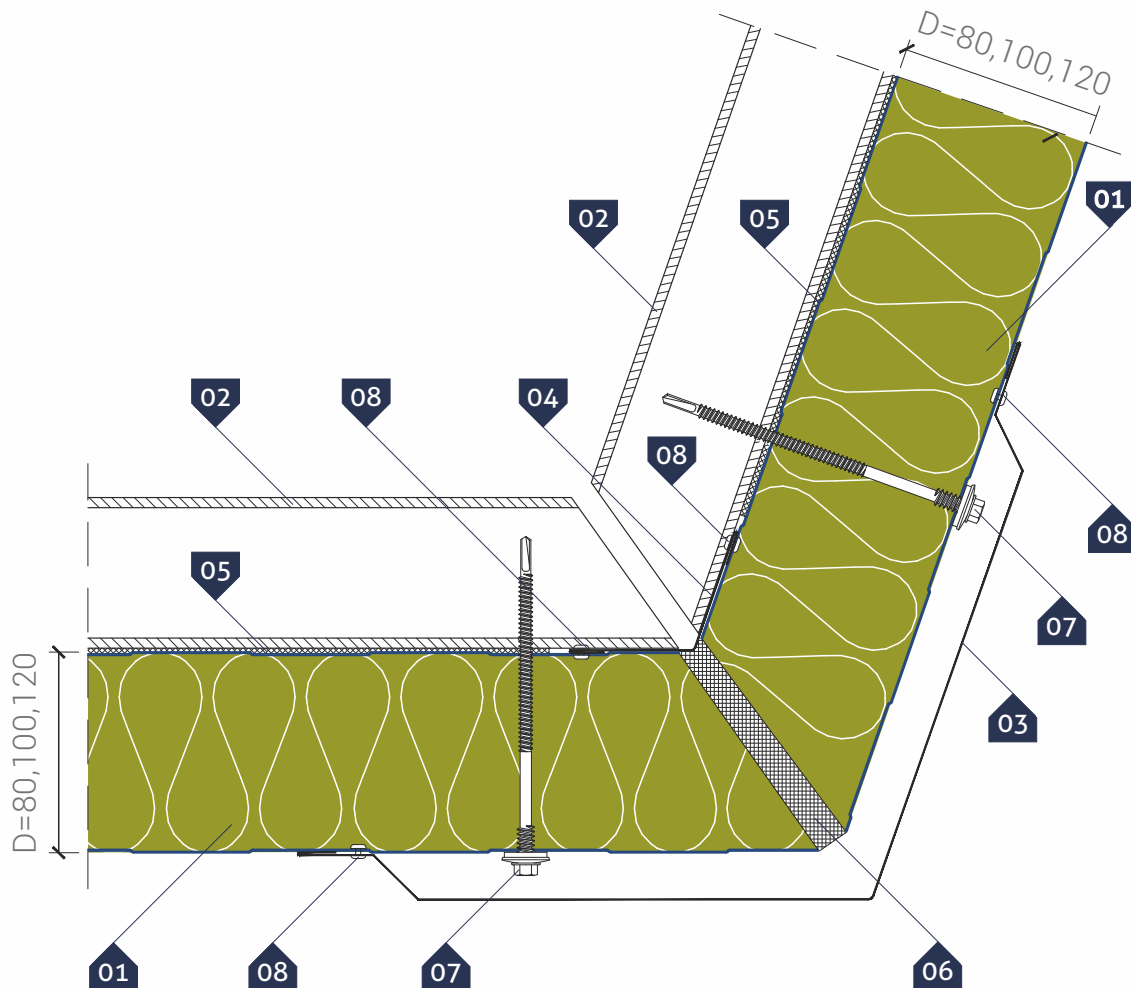


- ▷ **KEY:**
- 01. GS MW U wall panel (hidden fastening)
- 02. Steel post and transom acc. to structure design
- 03. Corner flashing **OB-03**
- 04. Corner flashing **OB-02**
- 05. Polyethylene, self-adhesive sealing tape (**PES**)*
- 06. Filling with rock mineral wool
- 07. Self-drilling connector for sandwich panels
- 08. **PM1** spacer
- 09. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of panel connection in an optional angle corner



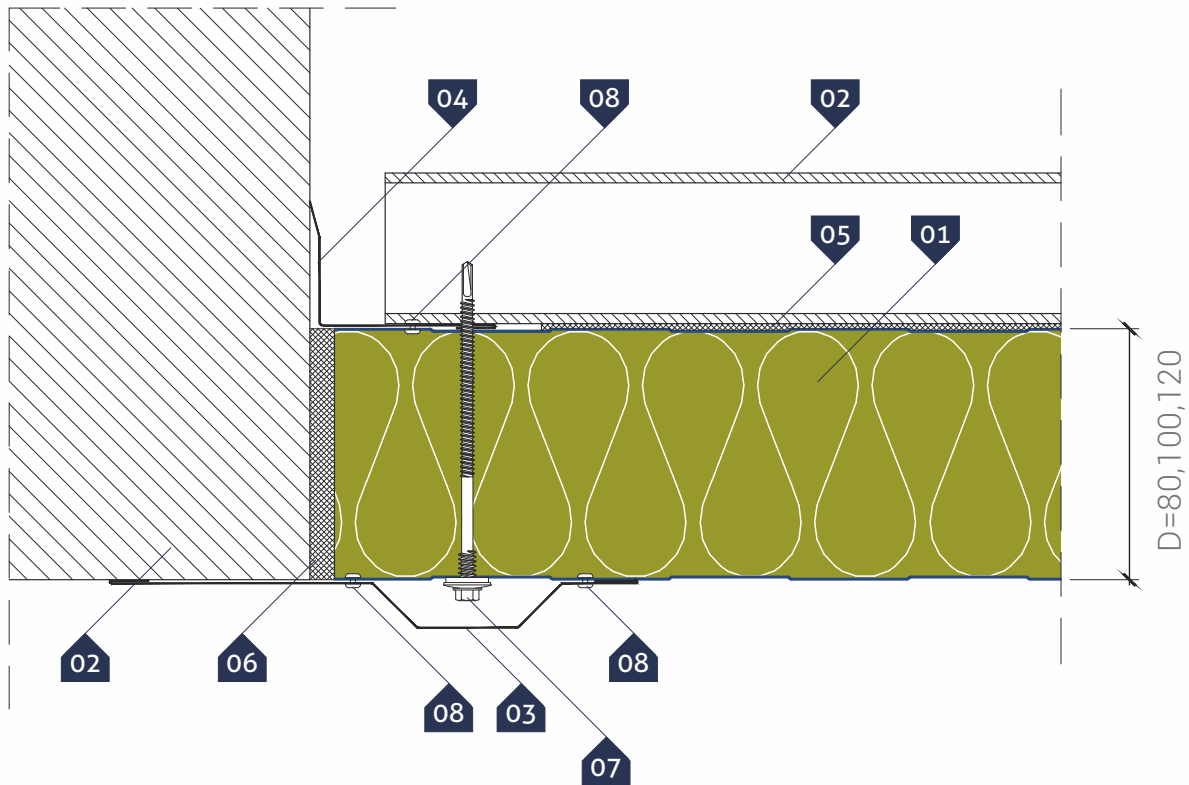
▷ KEY:

- 01. GS MW U wall panel
- 02. Transom acc. to structure design
- 03. Corner flashing **OB-03**
- 04. Corner flashin **OB-02**
- 05. Polyethylene, self-adhesive sealing tape (**PES**)*
- 06. Filling with rock mineral wool
- 07. Self-drilling connector for sandwich panels
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of panel connection to blockwall

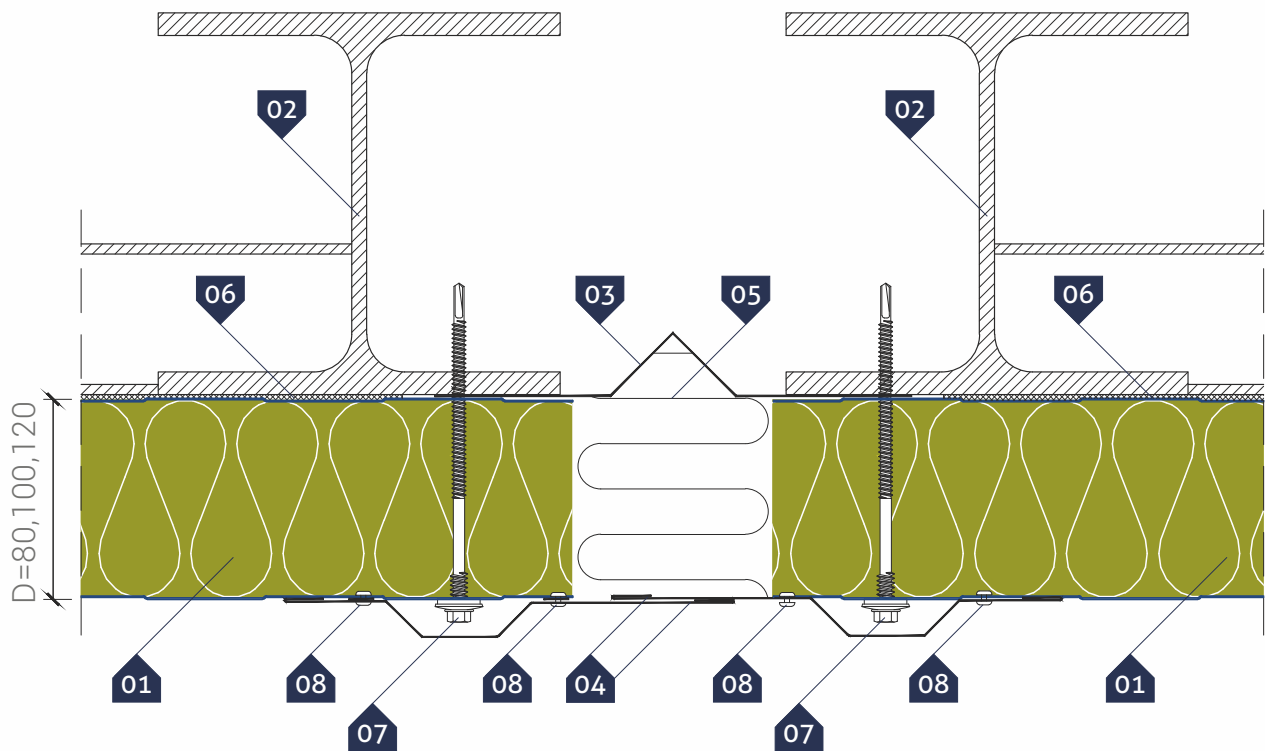


- ▷ **KEY:**
 - 01. GS MW U wall panel
 - 02. Blockwall and transom acc. to structure design
 - 03. Covering flashing **OB-19**
 - 04. Inner corner flashing **OB-07**
 - 05. Polyethylene, self-adhesive sealing tape (**PES**)*
 - 06. Filling with rock mineral wool
 - 07. Self-drilling connector for sandwich panels
 - 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of buildings expansion joint

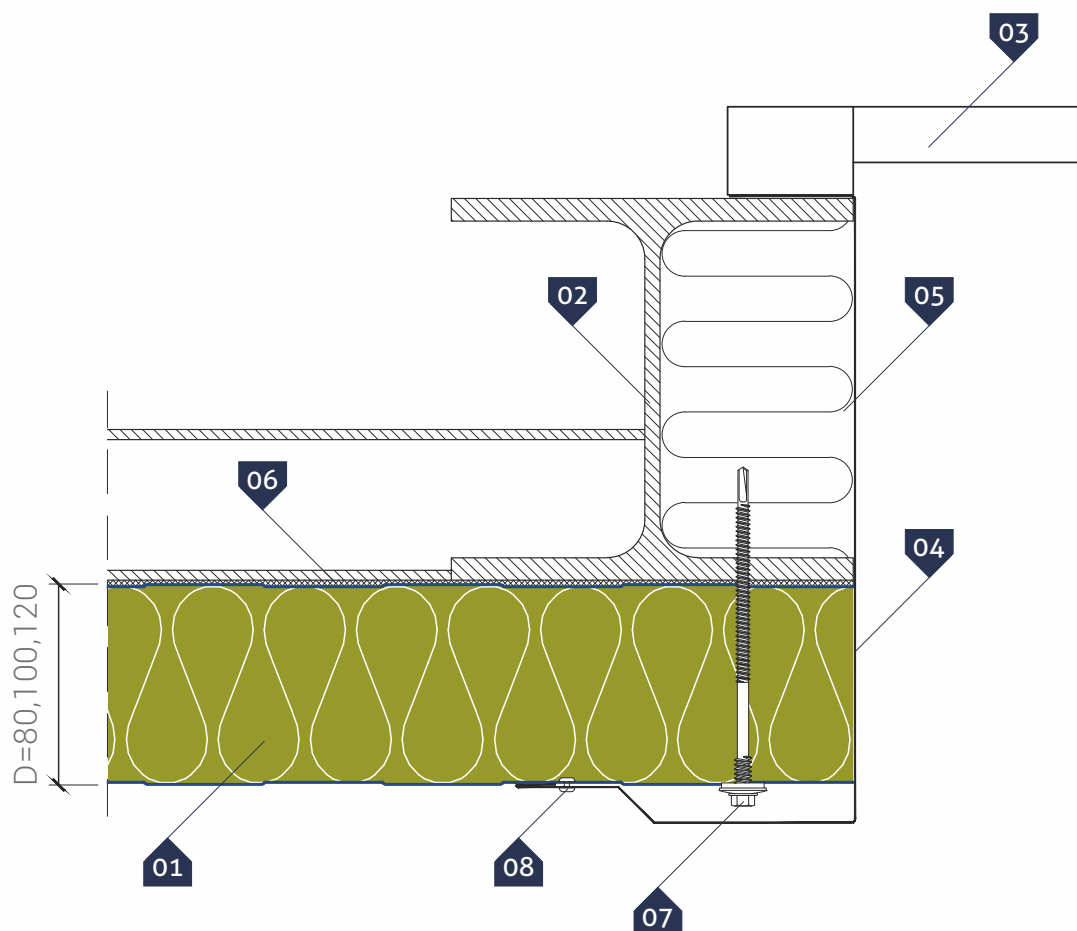


- ▷ **KEY:**
 - 01. GS MW U wall panel (hidden fastening)
 - 02. Steel posts and transom acc. to structure design
 - 03. Individual expansion joint flashing
 - 04. Covering flashing **OB-17**
 - 05. Thermal insulation on the fastening
 - 06. Polyethylene, self-adhesive sealing tape (PES)*
 - 07. Self-drilling connector for sandwich panels
 - 08. Self-drilling connector for steel sheets or rivet **4.0 x 8,0**.

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
Detail of steel post in a roller shutter door



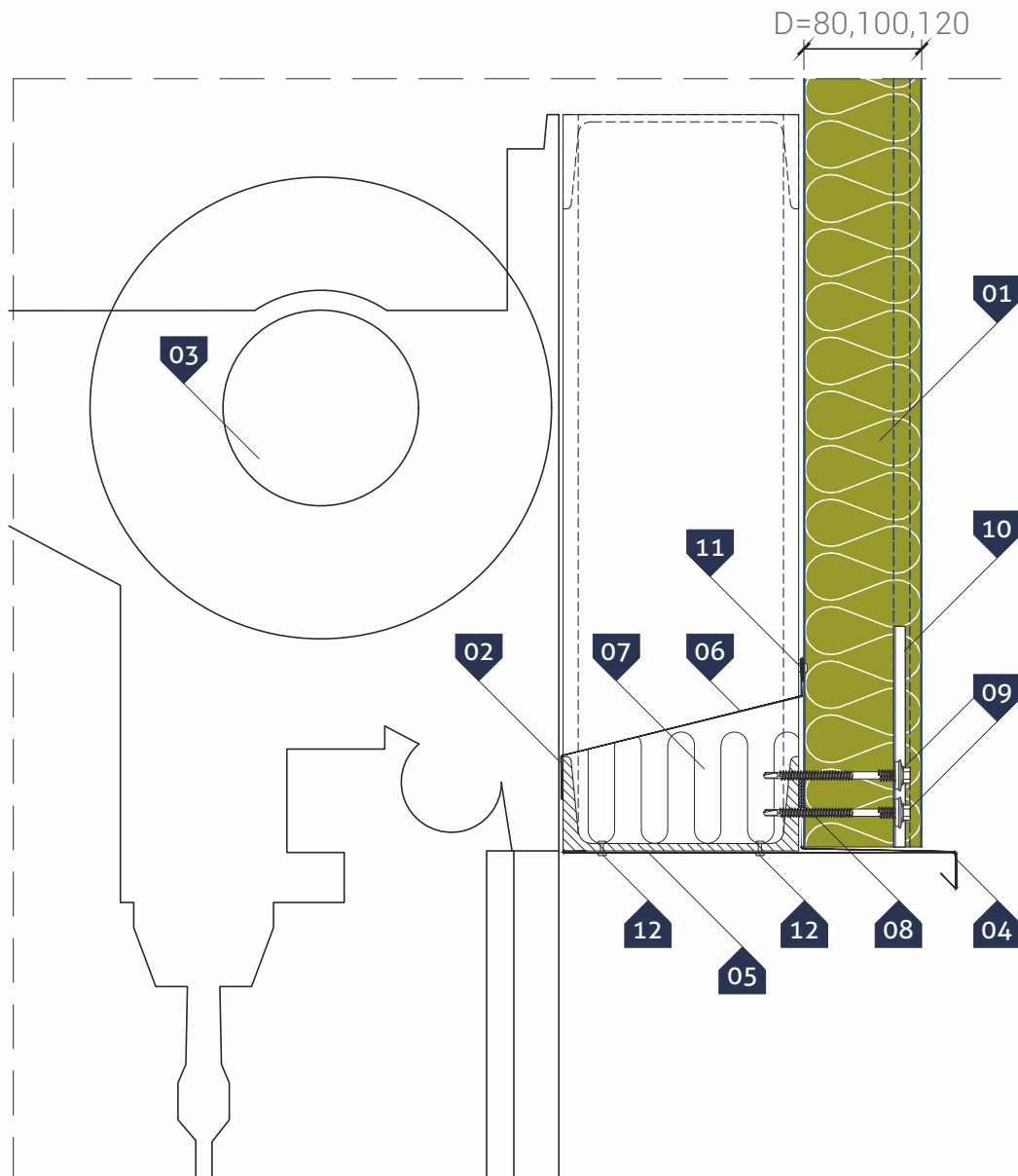
▷ KEY:

- 01. **GS MW U** wall panel (hidden fastening)
- 02. Steel post and transom acc. to structure design
- 03. Industrial door
- 04. Door flashing **OB-21**
- 05. Thermal insulation on the fastening
- 06. Polyethylene, self-adhesive sealing tape (**PES**)*
- 07. Self-drilling connector for sandwich panels
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
- Detail of roller shutter door lintel



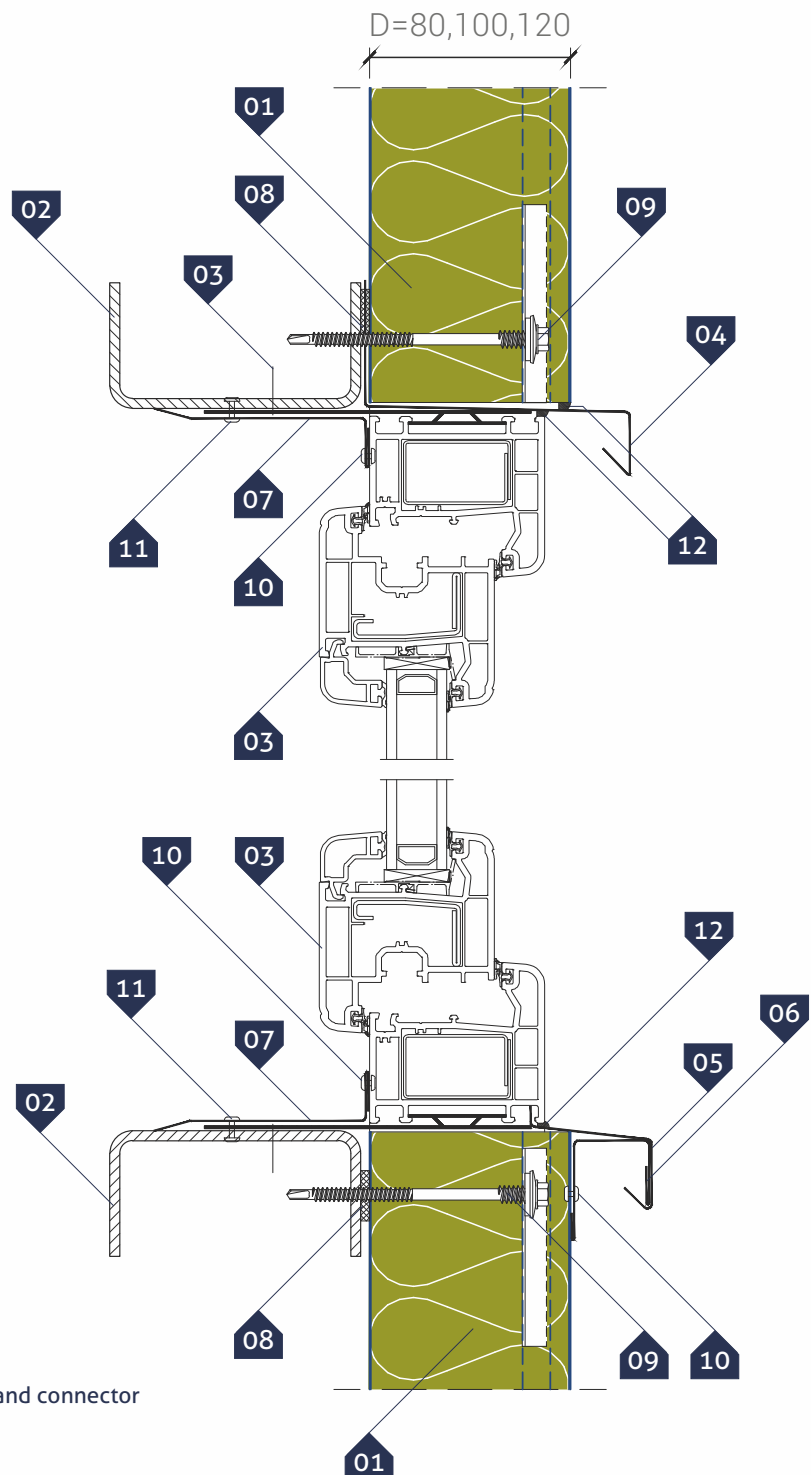
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Transom acc. to structure design
- 03. Roller shutter door
- 04. Drip edge **OB-13**
- 05. Covering flashing **OB-20**
- 06. Individual covering flashing
- 07. Thermal insulation on the fastening
- 08. Polyethylene, self-adhesive sealing tape (**PES**)*
- 09. Self-drilling connector for sandwich panels
- 10. **PM1** Podkładka montażowa
- 11. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
- 12. Blind rivet **4,8 x 15,1** (for the structure)

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
- Detail of window mounting in a sandwich panel
- Type I – vertical section



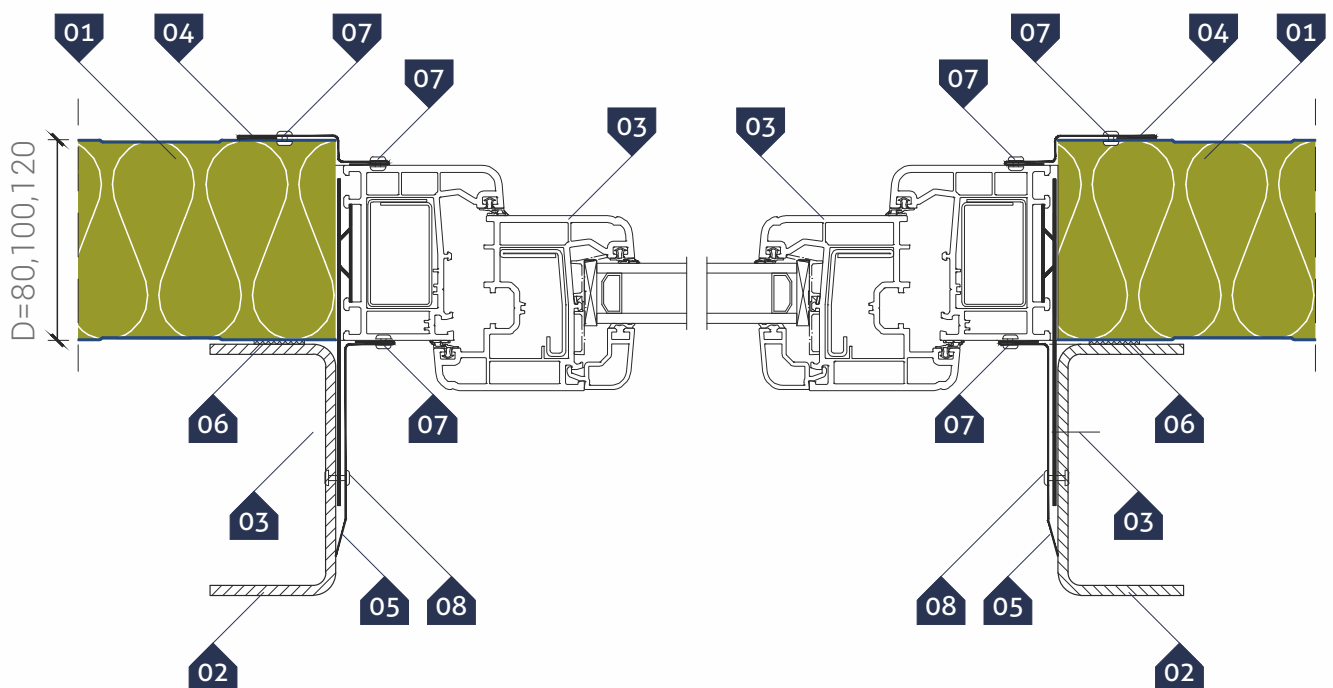
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Transom acc. to structure design
- 03. PCV or aluminium window with a holder and connector
- 04. Drip edge OB-13
- 05. Cill OB-37
- 06. Stiffening flashing OB-16
- 07. Individual internal corner
- 08. Polyethylene, self-adhesive sealing tape (PES)*
- 10. Self-drilling connector for sandwich panels
- 11. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 11. Blind rivet 4,8 x 15,1 (for the structure)
- 12. Neutral silicant

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ VERTICAL ARRANGEMENT of panels
- Detail of window mounting in a sandwich panel
- Type I – horizontal section



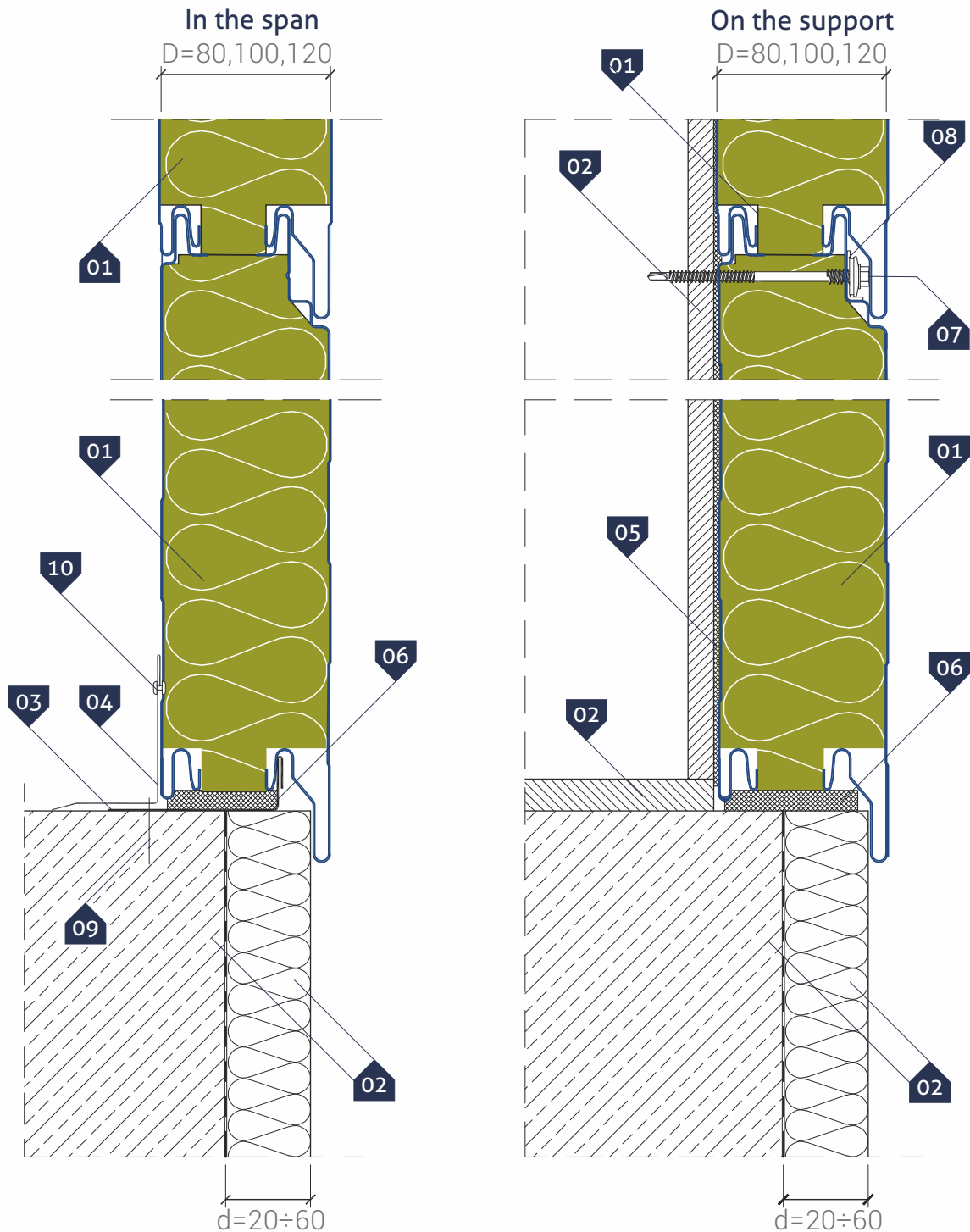
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Transom acc. to structure design
- 03. PCV or aluminium window with a holder and connector
- 04. Individual covering flashing
- 05. Individual internal corner
- 06. Polyethylene, self-adhesive sealing tape (PES)*
- 07. Polyurethane caulking foam
- 08. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 08. Blind rivet 4,8 x 15,1 (for the structure)

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Details of panel connection to ground beam
- Type I



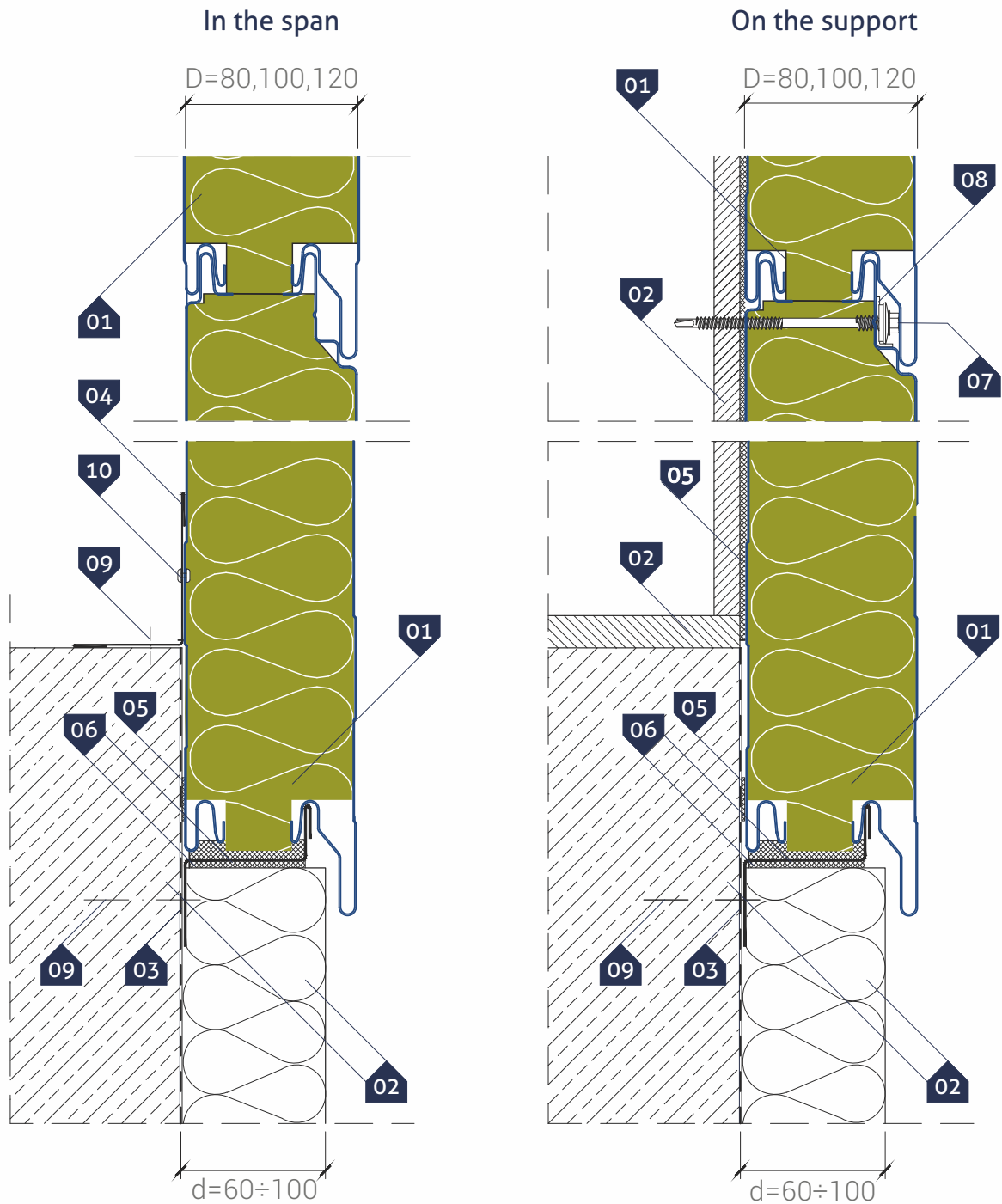
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
- 03. Starting angle **OB-41**
- 04. Inner corner flashing **OB-07**
- 05. Polyethylene, self-adhesive sealing tape (**PES**)*
- 06. Impregnated polyurethane seal (**PURS**) or polyurethane caulking foam
- 07. Self-drilling connector for sandwich panels
- 08. **PM1** spacer
- 09. Steel expansion joint for quick assembly
- 10. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Details of panel connection to ground beam
- Type II



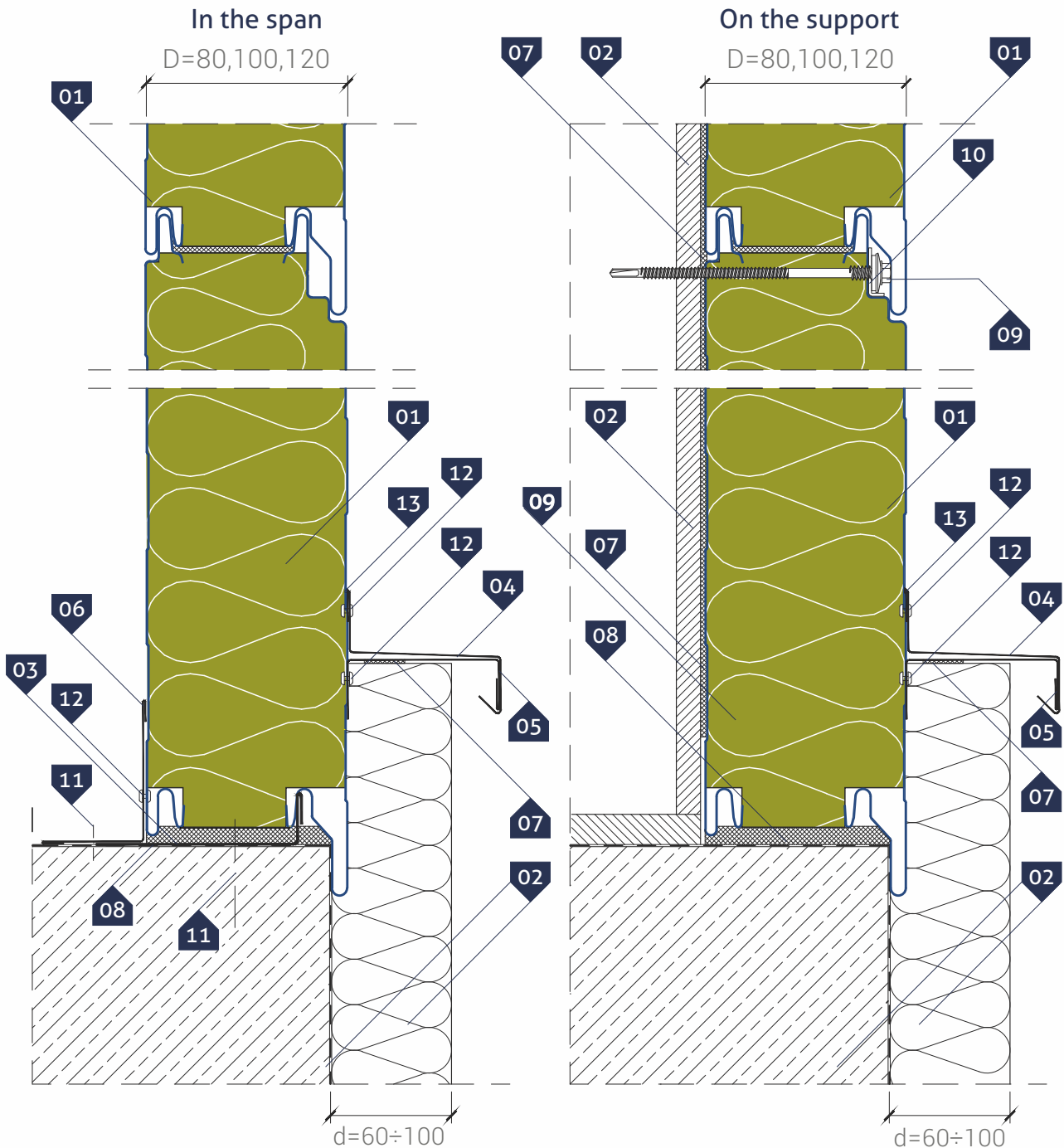
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
- 03. Edge Z-bar OB-39
- 04. Inner corner flashing OB-06
- 05. Polyethylene, self-adhesive sealing tape (PES)*
- 06. Impregnated polyurethane seal (PURS) or polyurethane caulking foam
- 07. Self-drilling connector for sandwich panels
- 08. PM1 spacer
- 09. Steel expansion joint for quick assembly
- 10. Self-drilling connector for steel sheets or rivet 4.0 X 8.0

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Details of panel connection to ground beam
- Type III



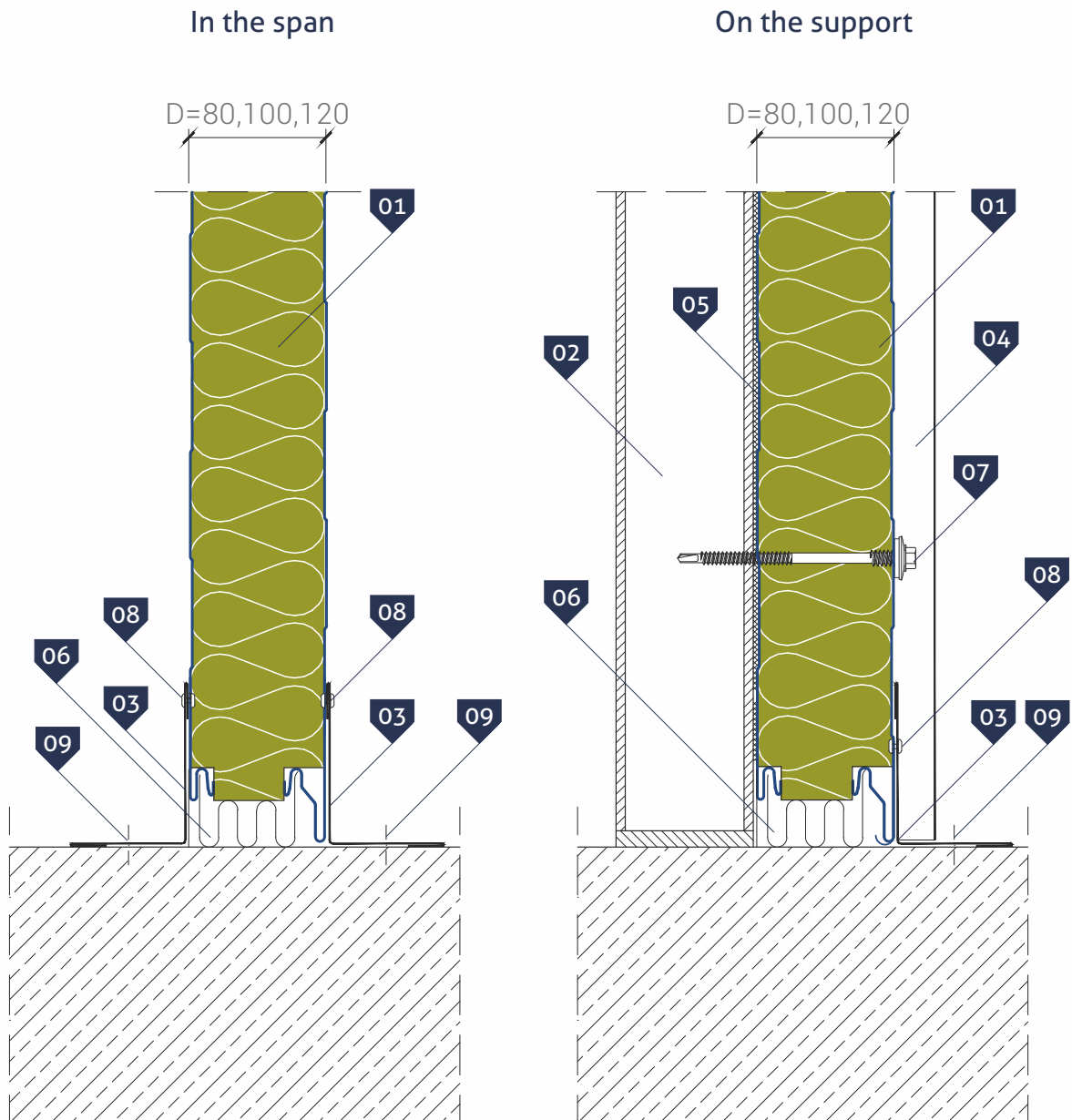
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
- 03. Starting angle **OB-41**
- 04. Drip edge **OB-15**
- 05. Rigid flashing **OB-15a**
- 06. Inner corner flashing **OB-06**
- 07. Polyethylene, self-adhesive sealing tape (**PES**)*
- 08. Impregnated polyurethane gasket (PURS) or polyurethane assembly foam
- 09. Self-drilling connector for sandwich panels
- 10. **PM1** spacer
- 11. Steel expansion joint for quick assembly
- 12. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**
- 13. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to flooring



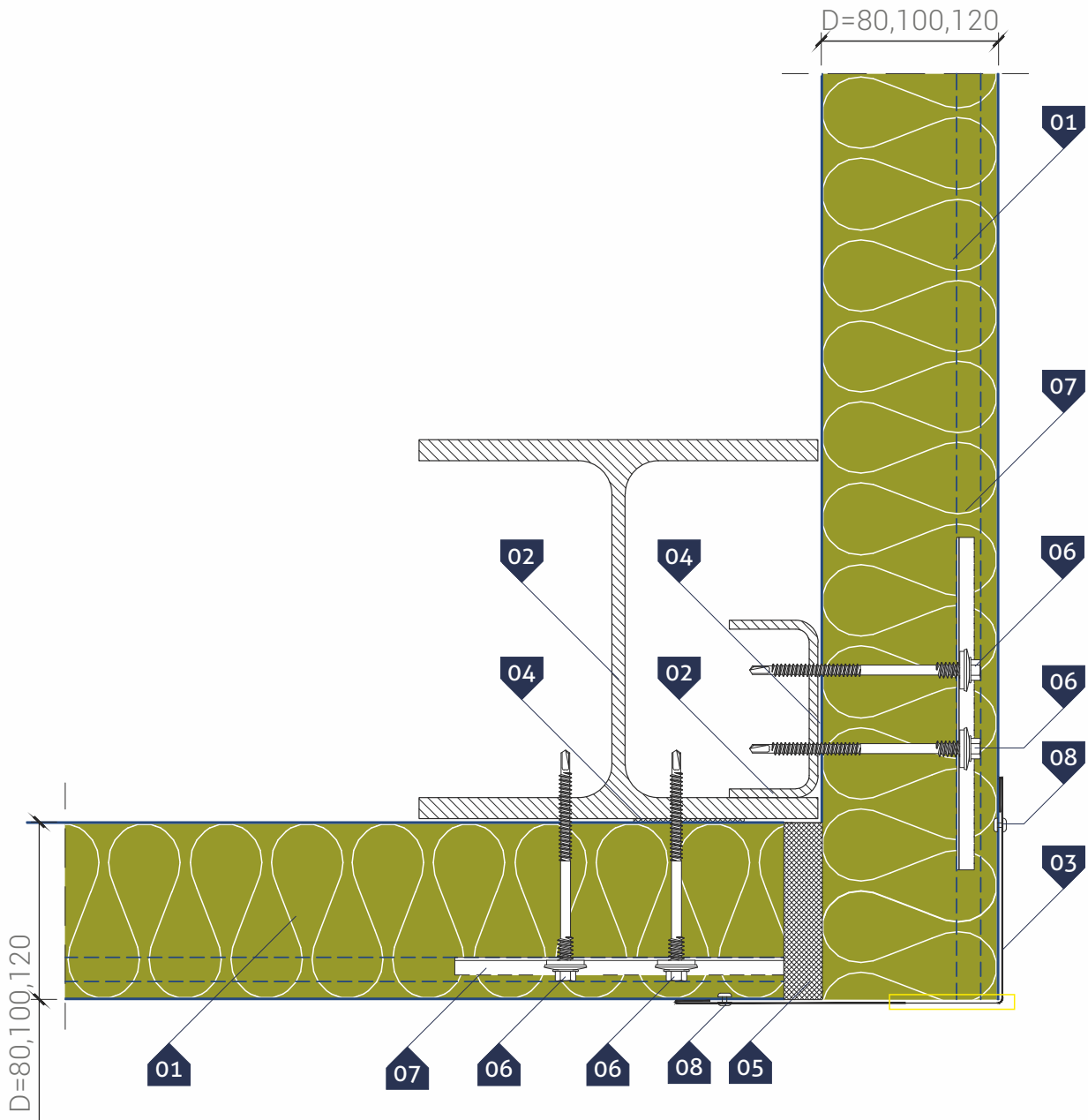
▷ KEY:

01. GS MW U wall panel (hidden fastening)
02. Steel post acc. to structure design
03. Inner corner flashing **OB-06**
04. Covering flashing for panel junction
05. Polyethylene, self-adhesive sealing tape (**PES**)*
06. Thermal insulation carried out on the fastening
07. Self-drilling connector for sandwich panels
08. Self-drilling connector for steel sheets or rivet **4.0 X 8.0**
09. Steel expansion joint for quick assembly

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of panel connection in a corner



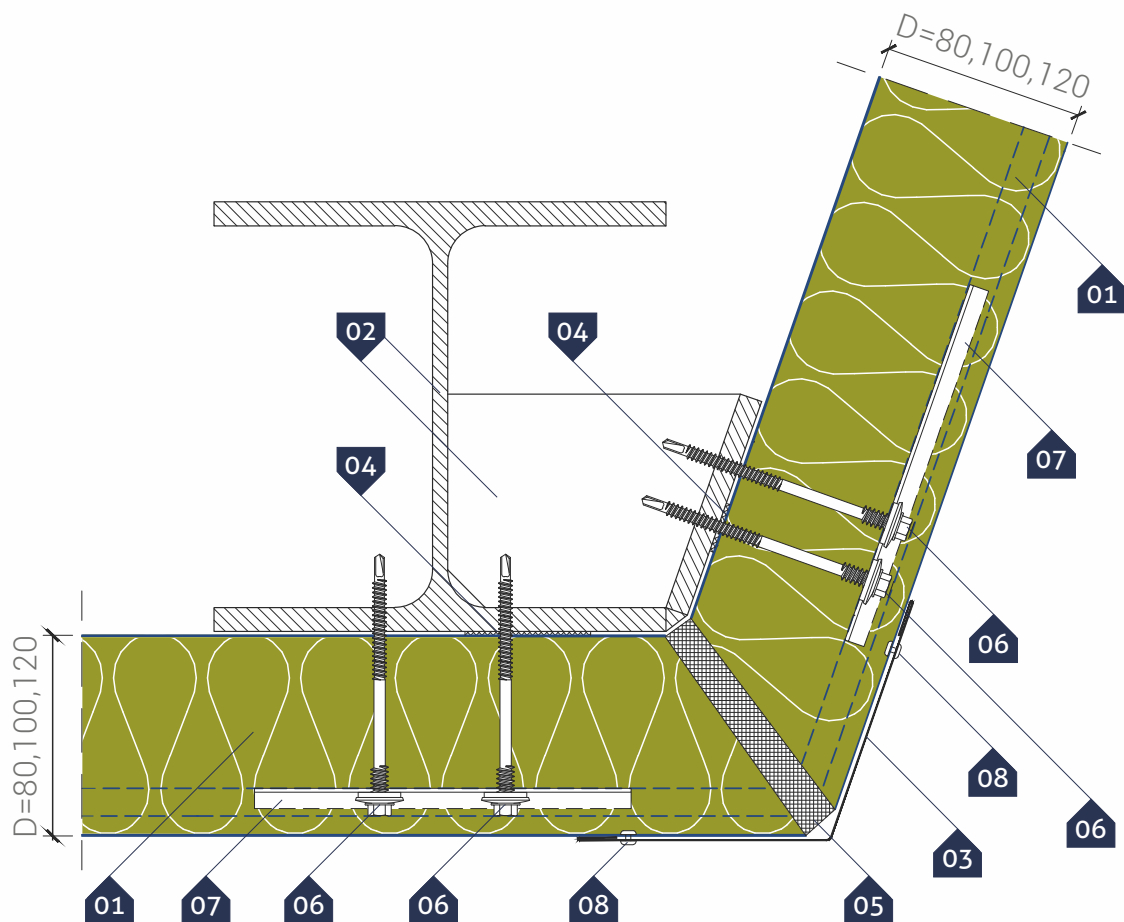
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Steel post acc. to structure design
- 03. External corner flashing OB-01
- 04. Polyethylene, self-adhesive sealing tape (PES)*
- 05. Filling with rock mineral wool
- 06. Self-drilling connector for sandwich panels
- 07. PM1 spacer
- 08. Self-drilling connector for steel sheets or rivet 4.0 x 8.0

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of panel connection in an optional angle corner



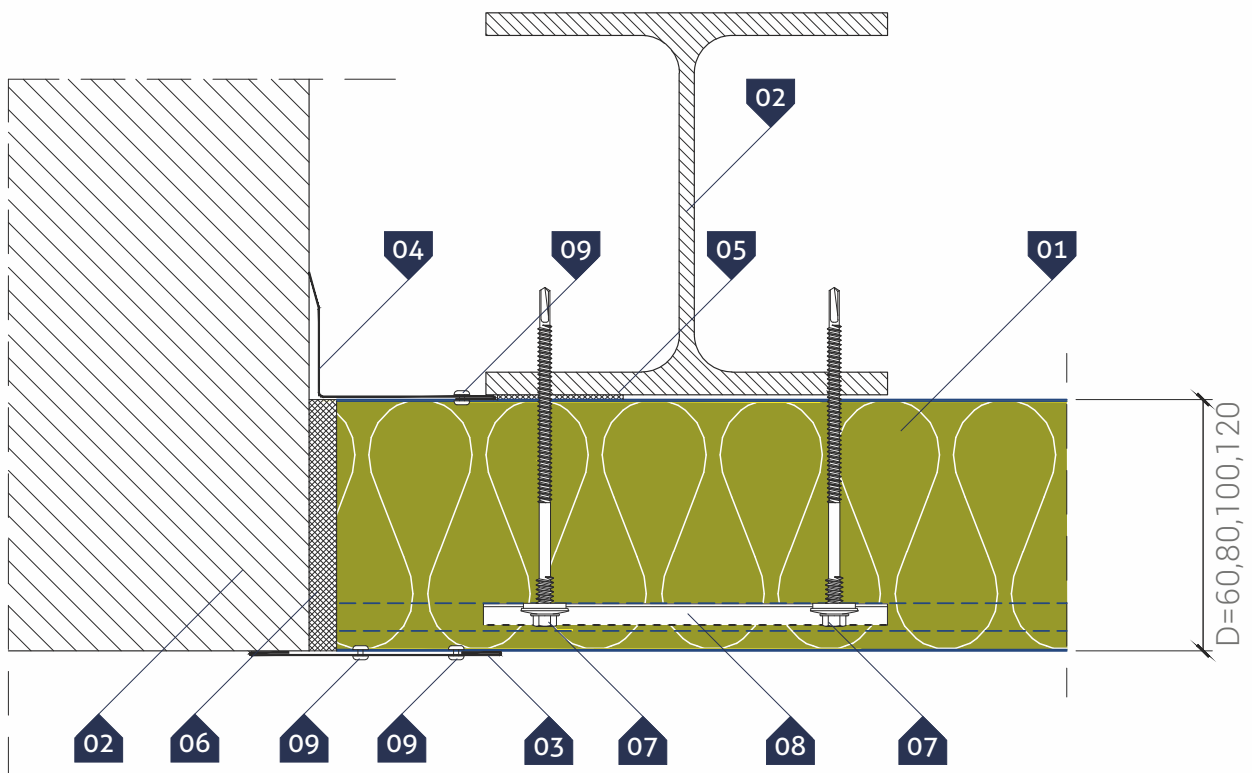
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Steel post acc. to structure design
- 03. External corner flashing **OB-01**
- 04. Polyethylene, self-adhesive sealing tape (**PES**)*
- 05. Filling with rock mineral wool
- 06. Self-drilling connector for sandwich panels
- 07. **PM1** spacer
- 08. Self-drilling connector for steel sheets or rivet **4.0 X 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to blockwall

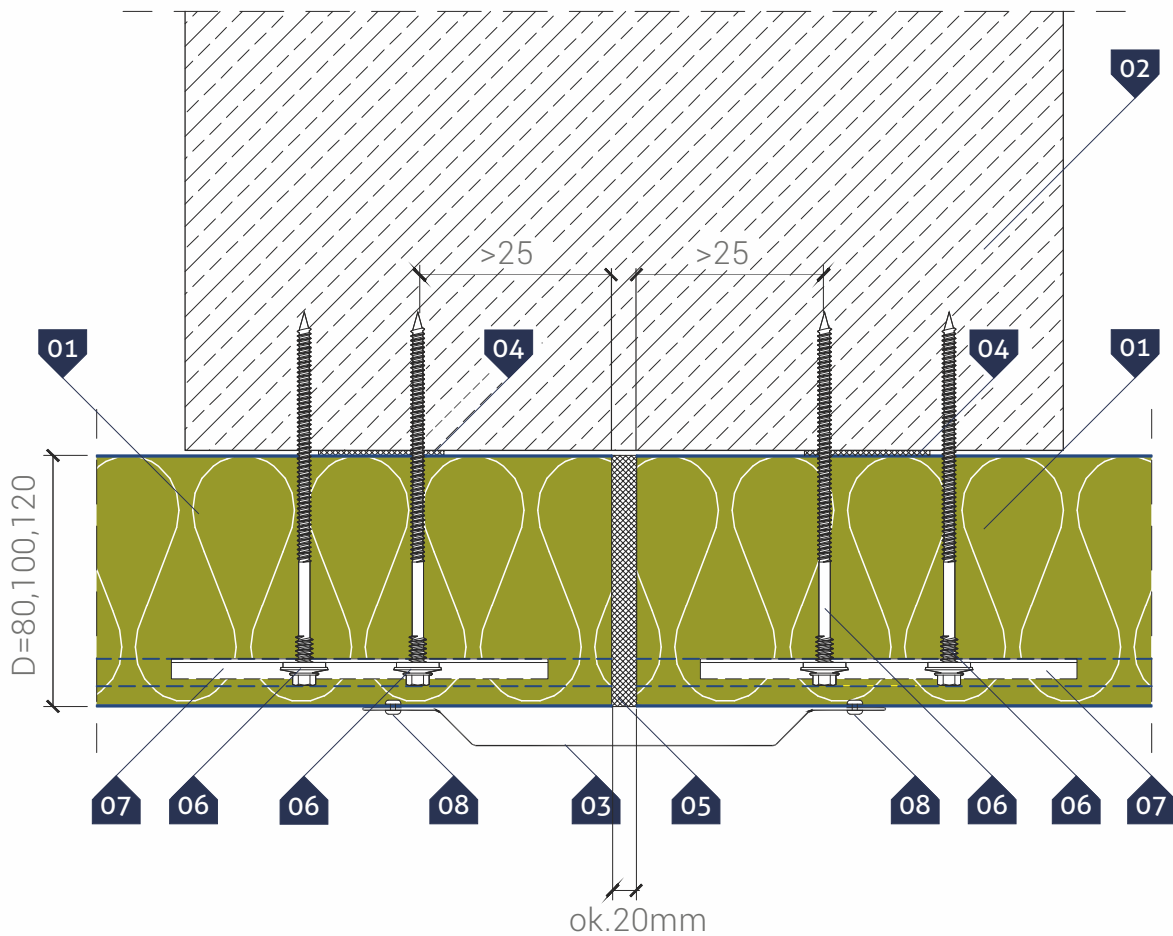


- ▷ **KEY:**
 - 01. GS MW U wall panel (hidden fastening)
 - 02. Blockwall and post acc. to structure design
 - 03. Masking treatment **OB-18**
 - 04. Inner corner flashing **OB-07**
 - 05. Polyethylene, self-adhesive sealing tape (**PES**)
 - 06. Filling with rock mineral wool
 - 07. Self-drilling connector for sandwich panels
 - 08. **PM1** spacer
 - 09. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to reinforced concrete support

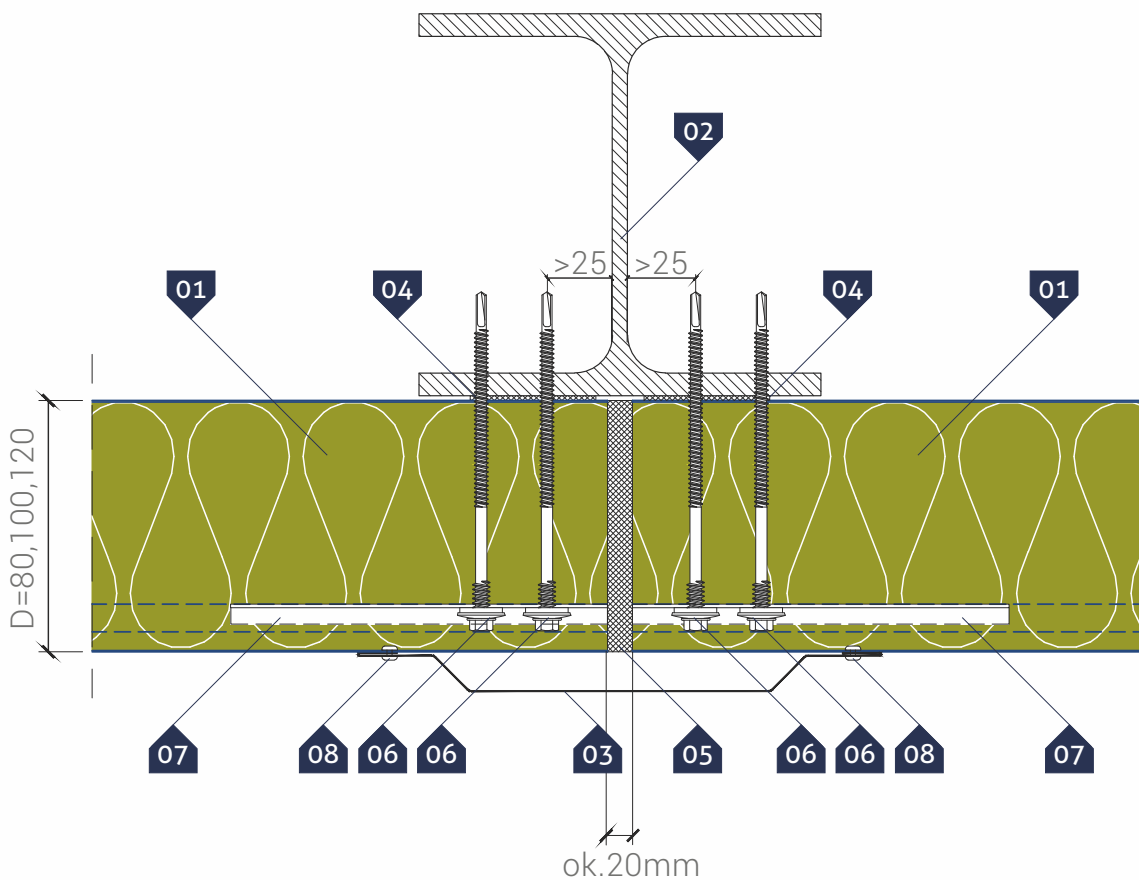


- ▷ **KEY:**
- 01. GS MW U wall panel (hidden fastening)
- 02. Reinforced concrete post acc. to structure design
- 03. Covering flashing **OB-17**
- 04. Polyethylene, self-adhesive sealing tape (**PES**)*
- 05. Filling with rock mineral wool
- 06. Self-drilling fastener for fixing sandwich panels
- 07. **PM1** spacer
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of panel connection to main support



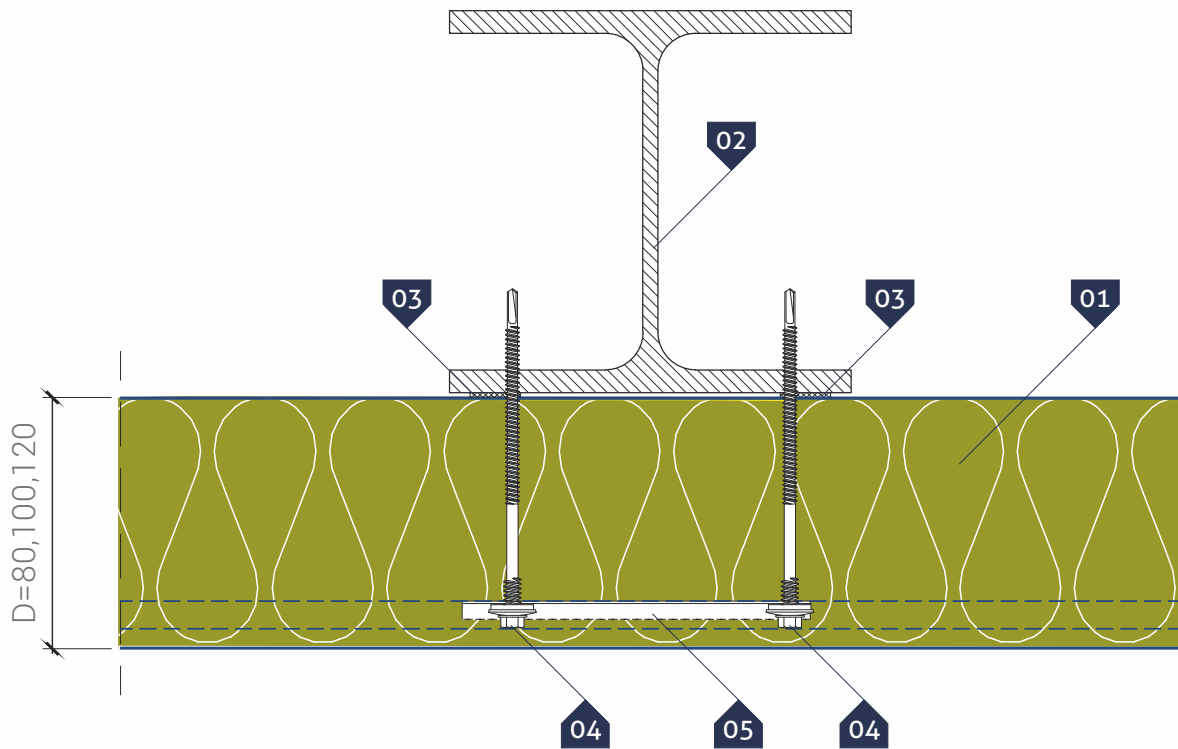
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Steel column according to structure design
- 03. Covering flashing **OB-17**
- 04. Polyethylene, self-adhesive sealing tape (**PES**)*
- 05. Filling with rock mineral wool
- 06. Self-drilling connector for sandwich panels
- 07. **PM1** spacer
- 08. Self-drilling connector for steel sheets or rivet **4.0 x 8.0**

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of panel connection to intermediate support



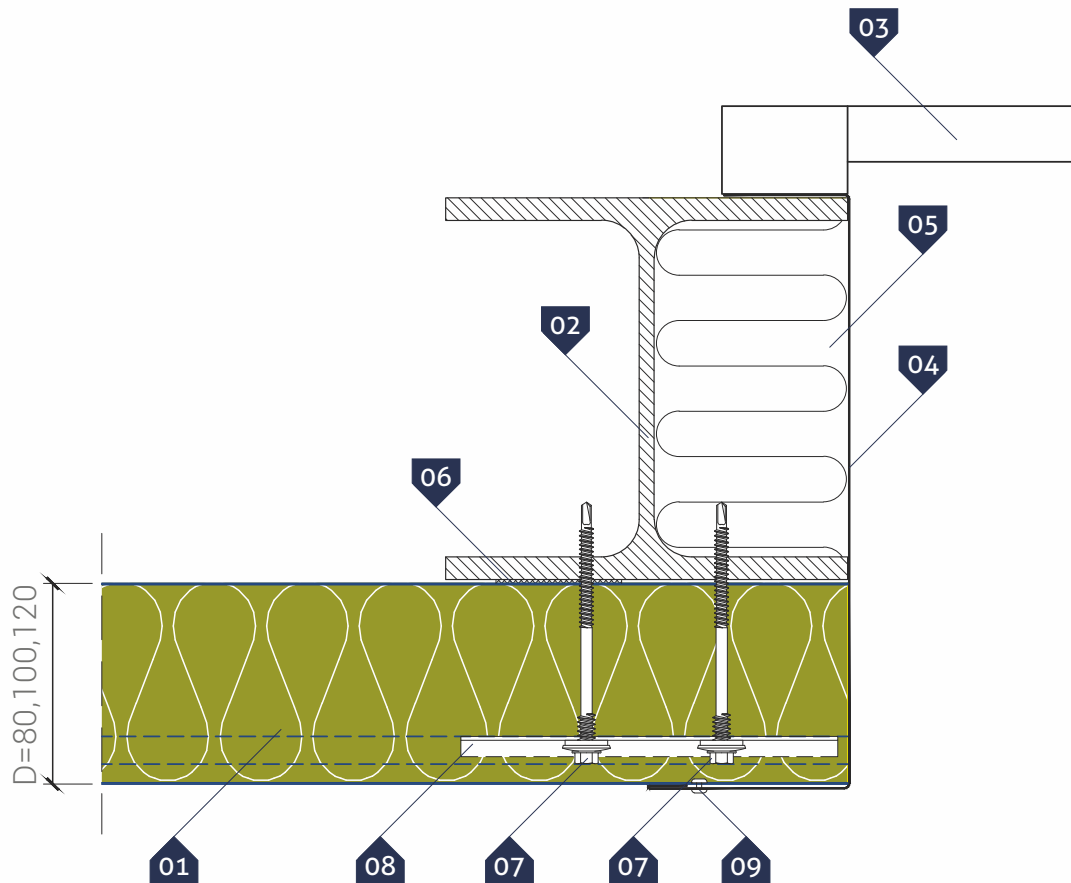
▷ KEY:

01. GS MW U wall panel (hidden fastening)
02. Steel column according to structure design
03. Polyethylene, self-adhesive sealing tape (PES)*
04. Self-drilling connector for sandwich panels
05. PM1 spacer

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
Detail of post to roller shutter door



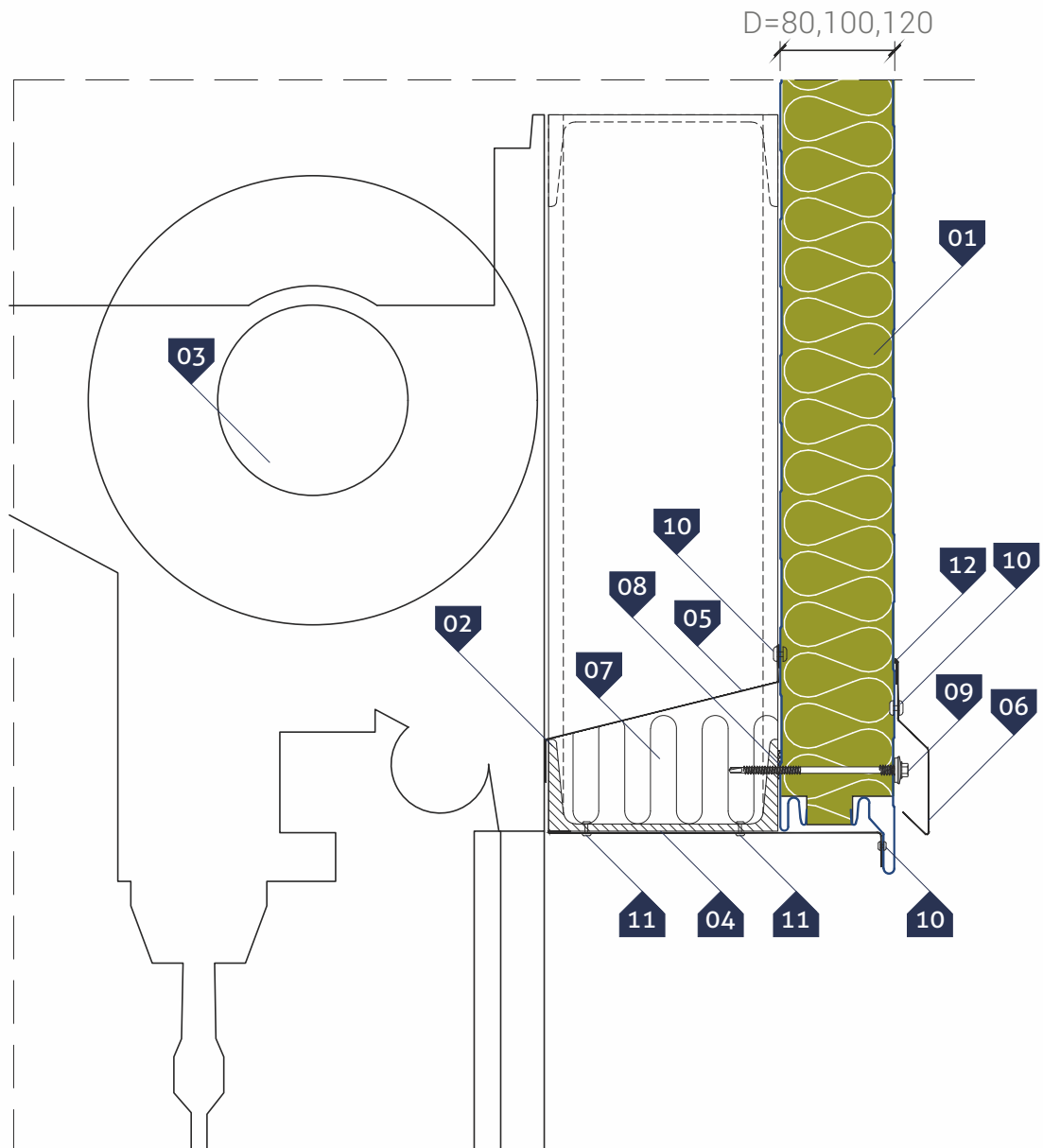
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Steel post acc. to structure design
- 03. Roller shutter door
- 04. Individual door flashing
- 05. Thermal insulation on the fastening
- 06. Polyethylene, self-adhesive sealing tape (PES)*
- 07. Self-drilling connector for sandwich panels
- 08. PM1 spacer
- 09. Self-drilling connector for steel sheets or rivet 4.0 x 8.0

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of roller shutter door lintel



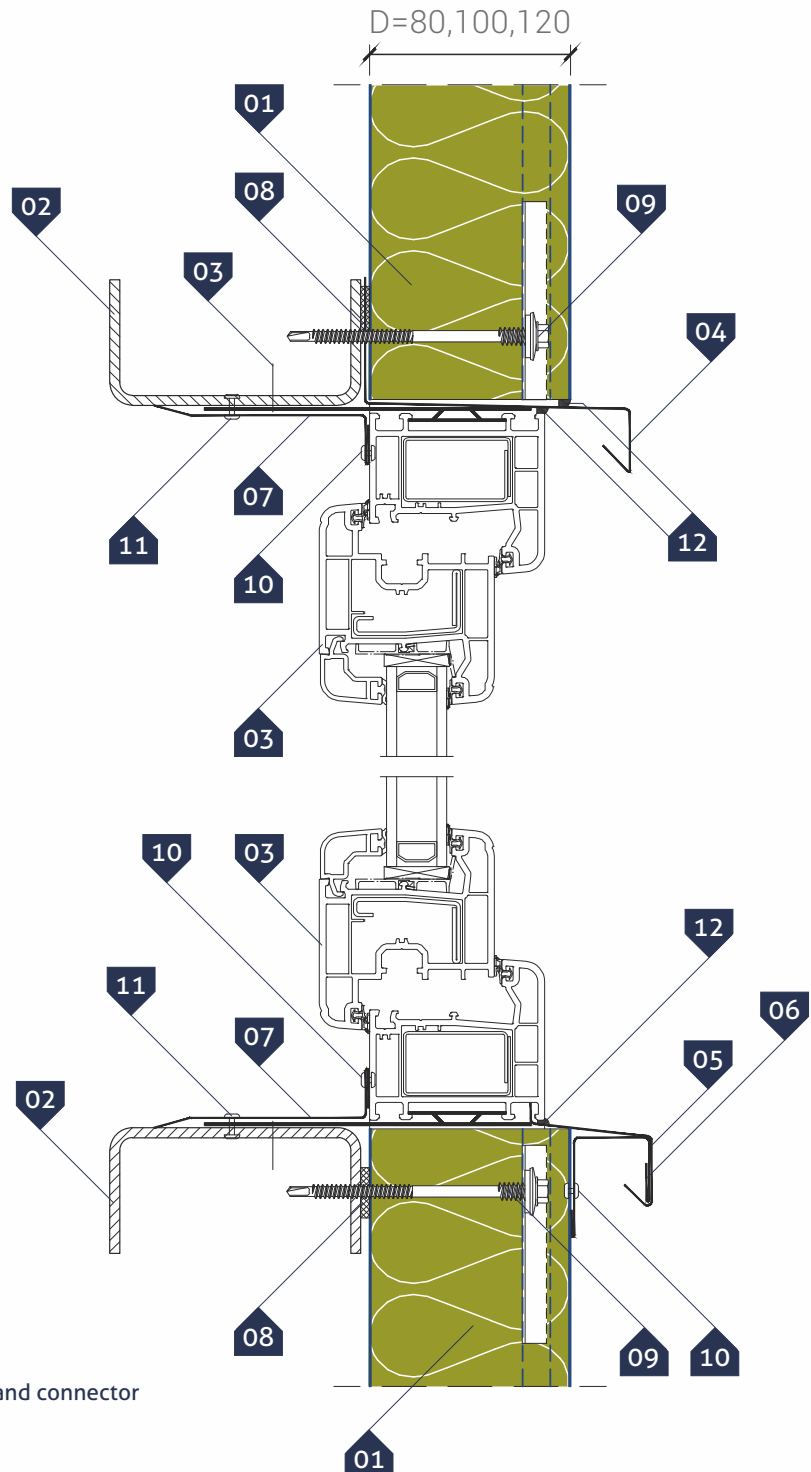
▷ **KEY:**

- 01. GS MW U wall panel (hidden fastening)
- 02. Transom acc. to structure design
- 03. Roller shutter door
- 04. Individual covering flashing
- 05. Individual covering flashing
- 06. **OB-10** drip cap
- 07. Thermal insulation on the fastening
- 08. Polyethylene, self-adhesive sealing tape (**PES**)*
- 09. Self-drilling connector for sandwich panels
- 10. Rivet **4,0 x 8,0**
- 11. Blind rivet **4,8 x 15,1** (for the structure)
- 12. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of window mounting in a sandwich panel
- Type I – vertical section



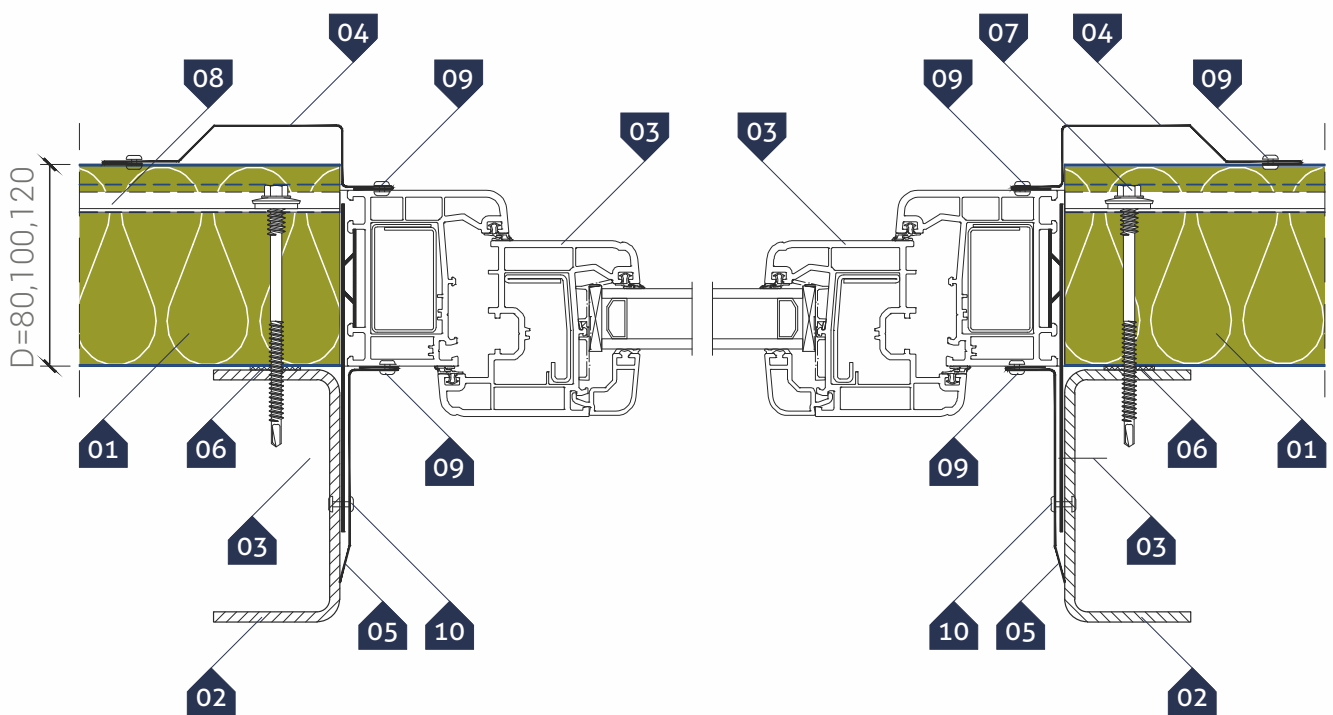
▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Transom acc. to structure design
- 03. PCV or aluminium window with a holder and connector
- 04. Drip edge OB-13
- 05. Cill OB-37
- 06. Rigid flashing OB-16
- 07. Individual internal corner
- 08. Polyethylene, self-adhesive sealing tape (PES)*
- 11. Self-drilling connector for sandwich panels
- 12. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 13. Blind rivet 4,8 x 15,1 (for the structure)
- 14. Neutral silicone sealant

* - a recommended item

Wall sandwich panel GS MW U (hidden connector)

- ▷ HORIZONTAL ARRANGEMENT of panels
- Detail of window mounting in a sandwich panel
Type I - horizontal section



▷ KEY:

- 01. GS MW U wall panel (hidden fastening)
- 02. Transom acc. to structure design
- 03. PCV or aluminium window with a holder and connector
- 04. Individual covering flashing
- 05. Individual internal corner
- 06. Polyethylene, self-adhesive sealing tape (PES)*
- 07. Self-drilling connector for sandwich panels
- 08. PM1 spacer
- 10. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 11. Blind rivet 4,8 x 15,1 (for the structure)

* - a recommended item

Sandwich panel installation

- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

▷ NOTE!

The following figures are illustrative and only show examples of machine configurations. Maximum load capacity of machines **Viavac = 1000 kg**. The machines have no restrictions on the length of the panel being lifted.

Use: for mounting roof and wall panels in vertical and horizontal layout.

The selection of a particular device from the **VIAVAC** offer depends on the type and extent of the material being lifted and the specificity of a specific installation. To eliminate the risk of damaging the panel during its transfer, always follow the instructions given by the appropriately trained technical department of the company dealing with the rental of **VIAVAC** machines. Therefore, please contact **VIAVAC** for detailed information on the selection of machines and instructions for specific installation.

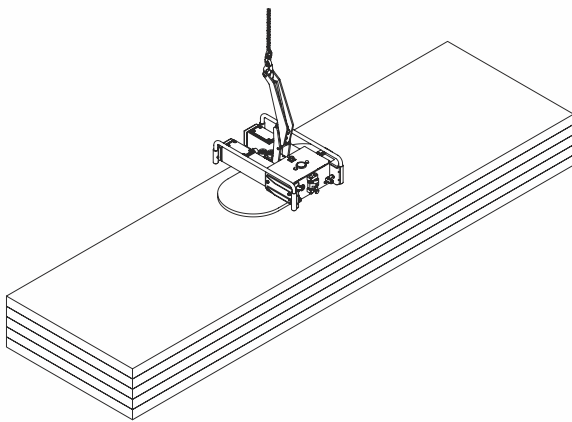
▷ Contact:

tel. +48 68 384 39 08

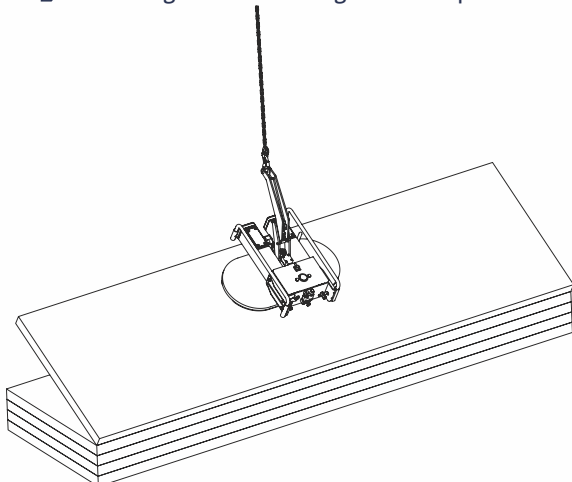
http: www.viavac.pl

▷ Scheme No. 1. Horizontal installation of a wall panel using the GlassBoy machine

- ▷ 1a. situating the machine and its attachment to the panel



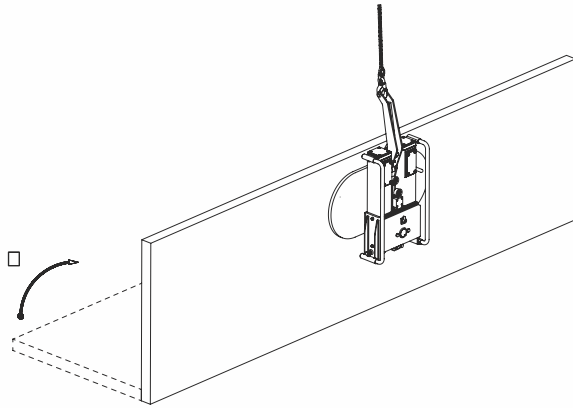
- ▷ 1b. lifting the machine together with panel



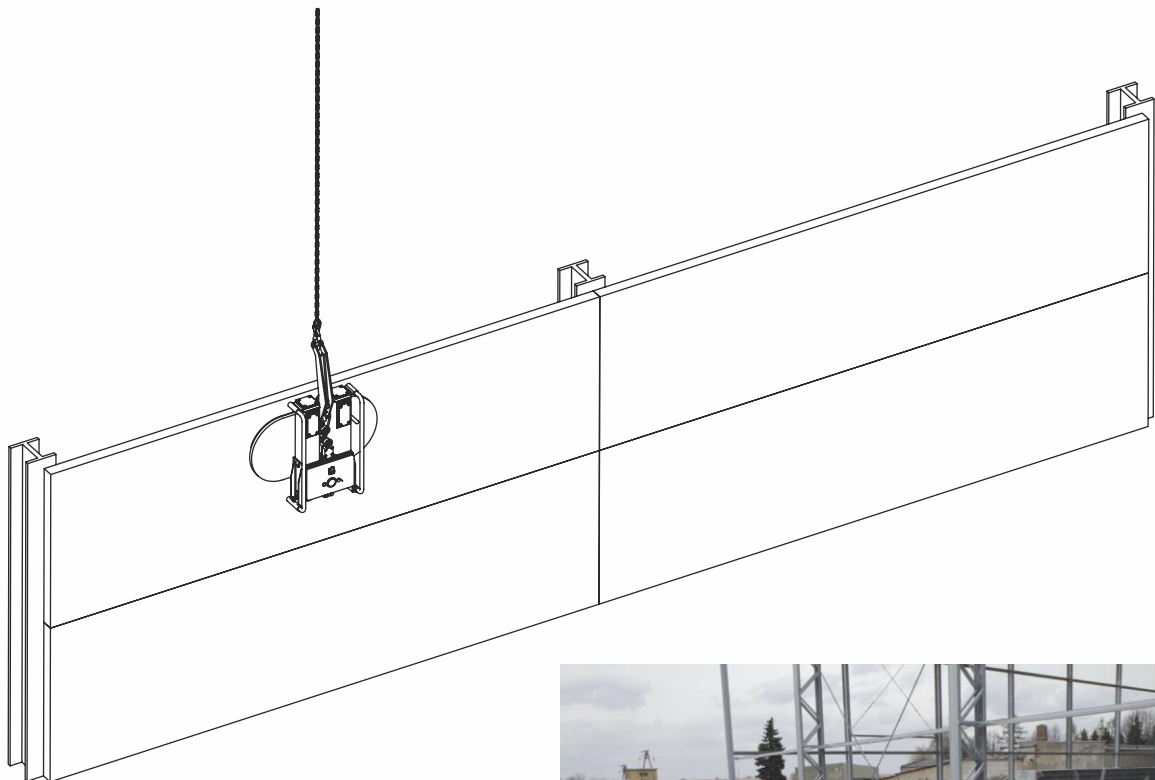
Sandwich panel installation

- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

- ▷ **1c.** changing the angle of the machine and transporting the plate to the place of installation



- ▷ **1d.** installation of panel on the wall and detachment of the machine

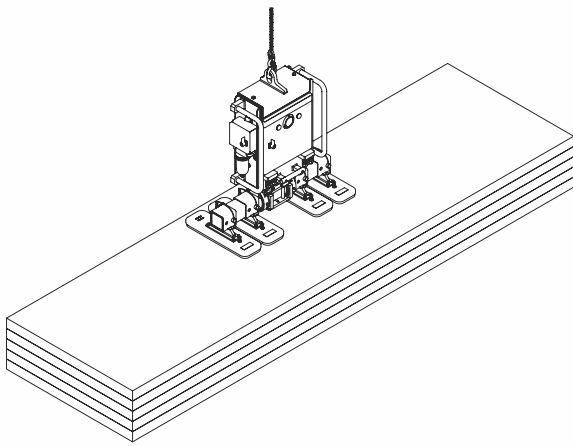


Sandwich panel installation

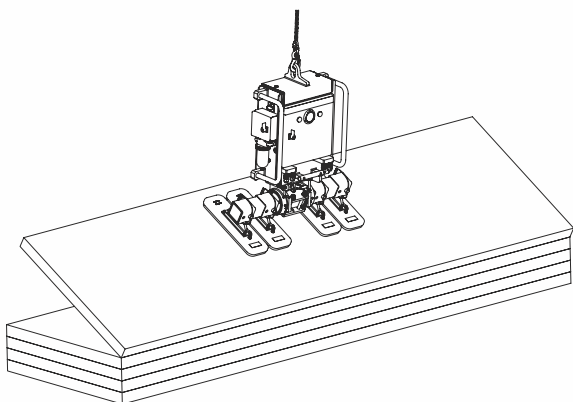
- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

▷ **Scheme No. 2.** Horizontal installation of a wall panel using the CladBoy machine

▷ **2a.** situating the machine and its attachment to the panel



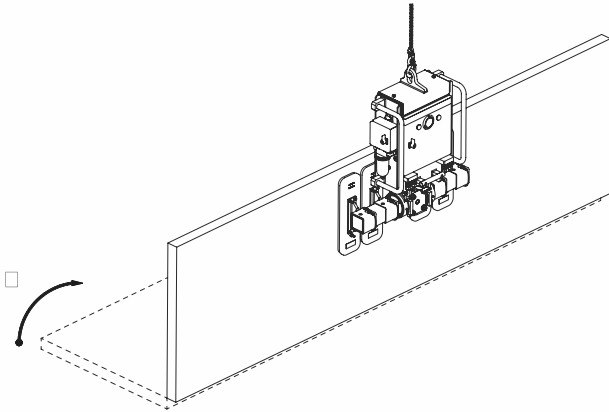
▷ **2b.** lifting the machine together with panel



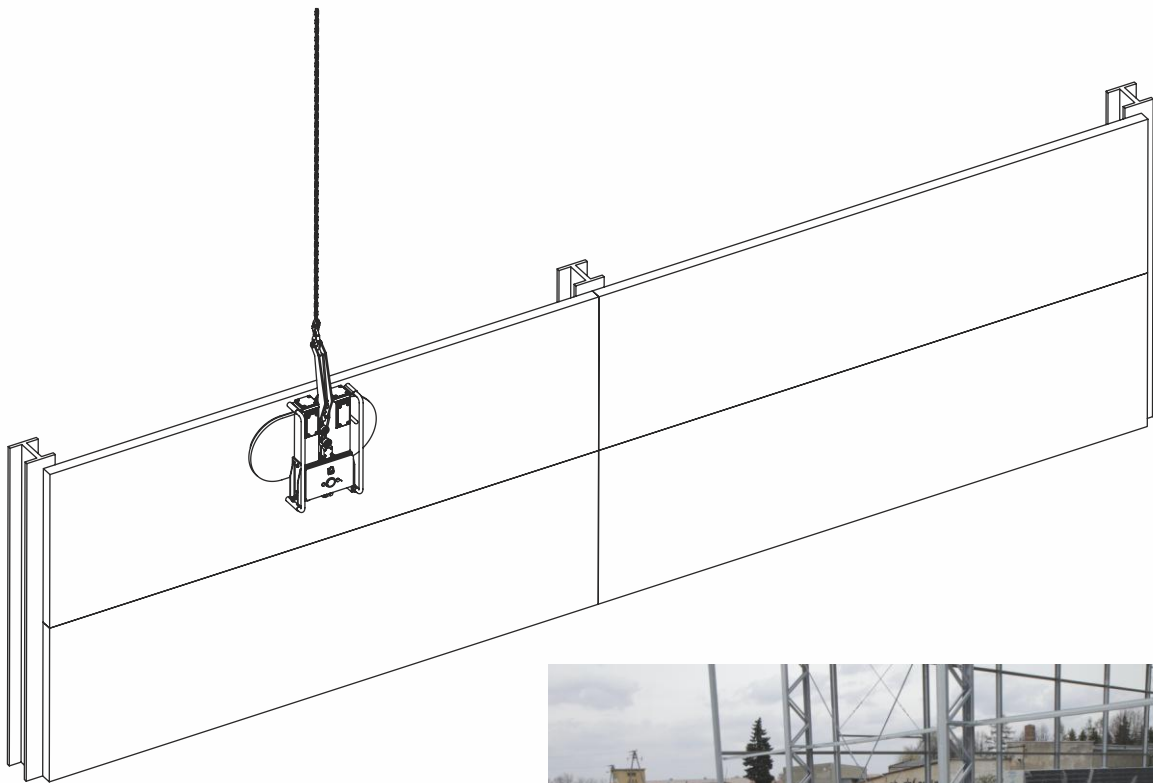
Sandwich panel installation

▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

▷ **2c.** change of the angle of the machine and transporting the panel to the place of installation



▷ **2d.** installation of panel on the wall and detachment of the machine

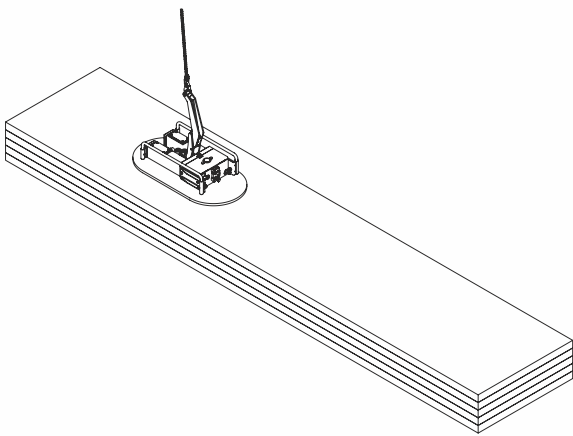


Sandwich panel installation

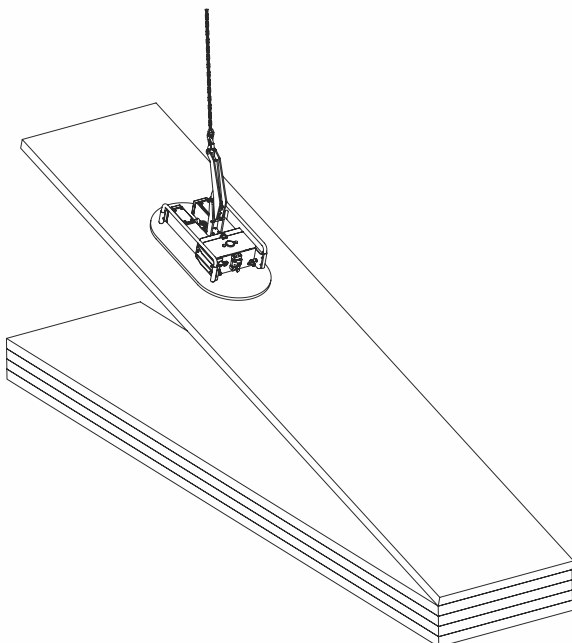
- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

▷ **Scheme No. 3.** Vertical installation of a wall panel using the **GlassBoy** machine

▷ **3a.** situating the machine and its attachment to the panel



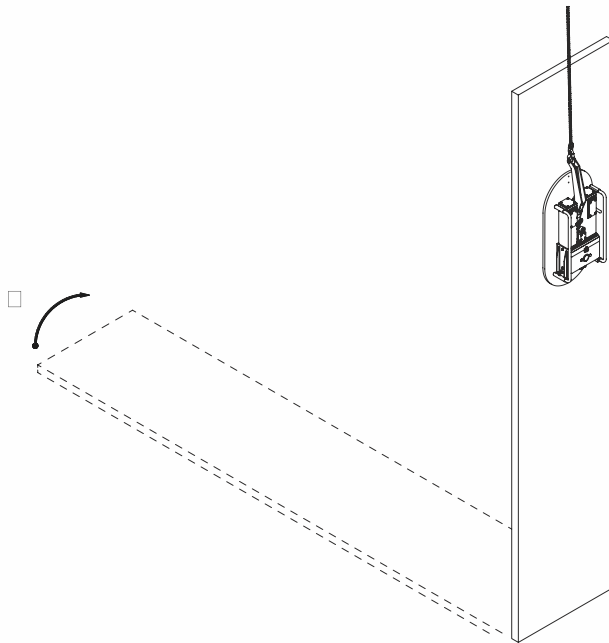
▷ **3b.** lifting the machine together with panel



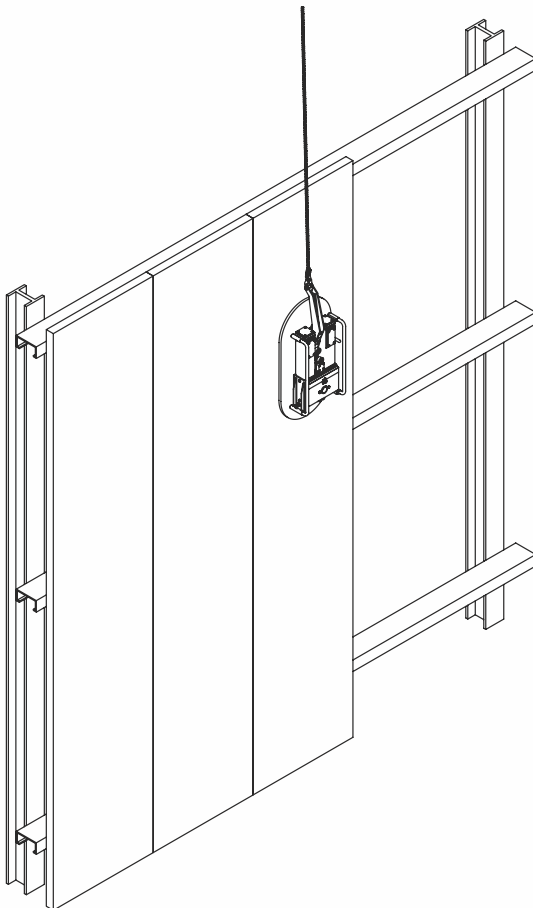
Sandwich panel installation

- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

- ▷ **3c.** changing the angle of the machine and transporting to the place of assembly



- ▷ **3d.** installation of panel on the wall and detachment of the machine

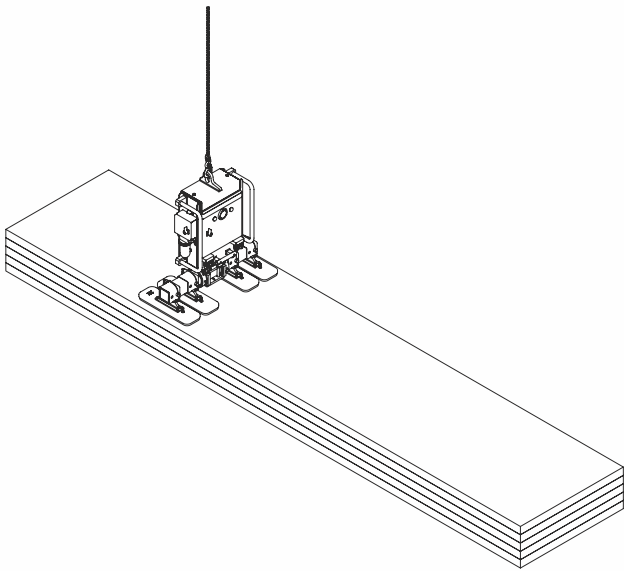


Sandwich panel installation

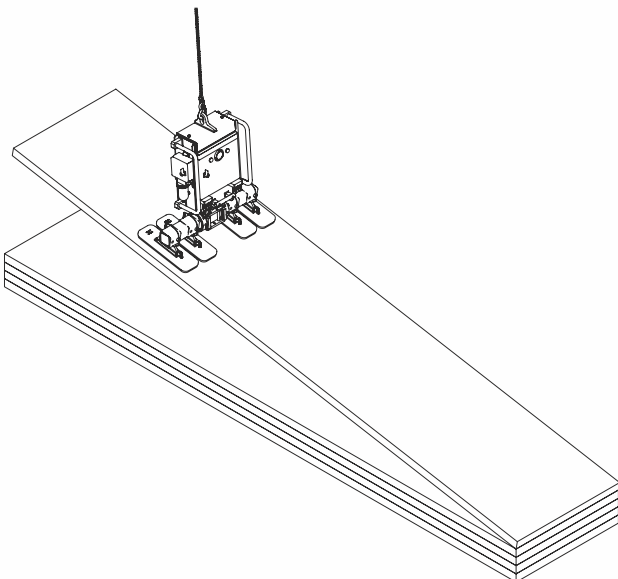
- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

▷ **Scheme No. 4.** Vertical installation of a wall panel using the **CladBoy** machine

▷ **4a.** situating the machine and its attachment to the panel



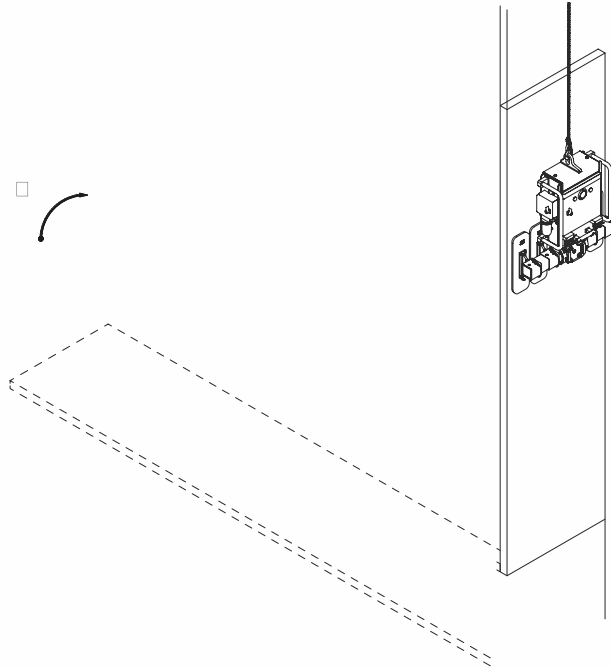
▷ **4b.** lifting the machine together with panel



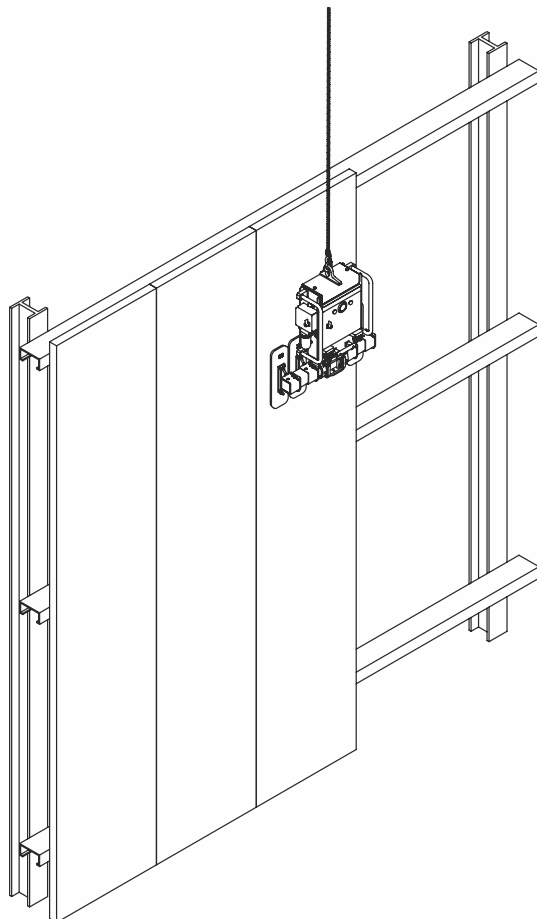
Sandwich panel installation

- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

- ▷ 4c. change of the angle of the machine and transporting the panel to the place of installation



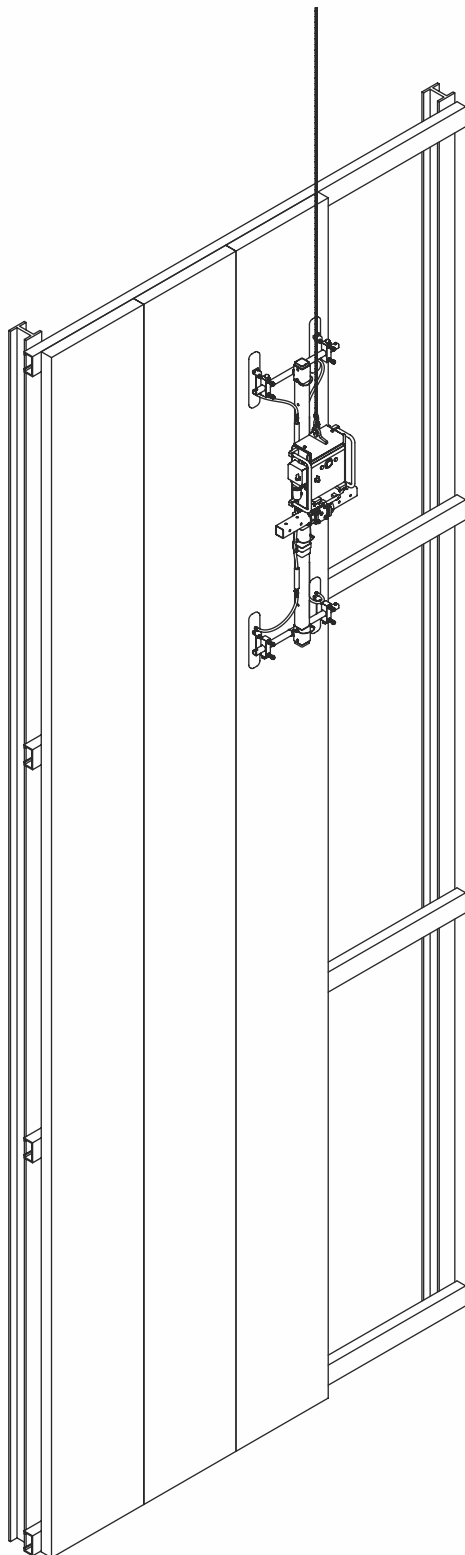
- ▷ 4d. installation of panel on the wall and detachment of the machine



Sandwich panel installation

- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

- ▷ **Scheme No. 5.** Sample configuration of **CladBoy** machine for vertical installation of long panels

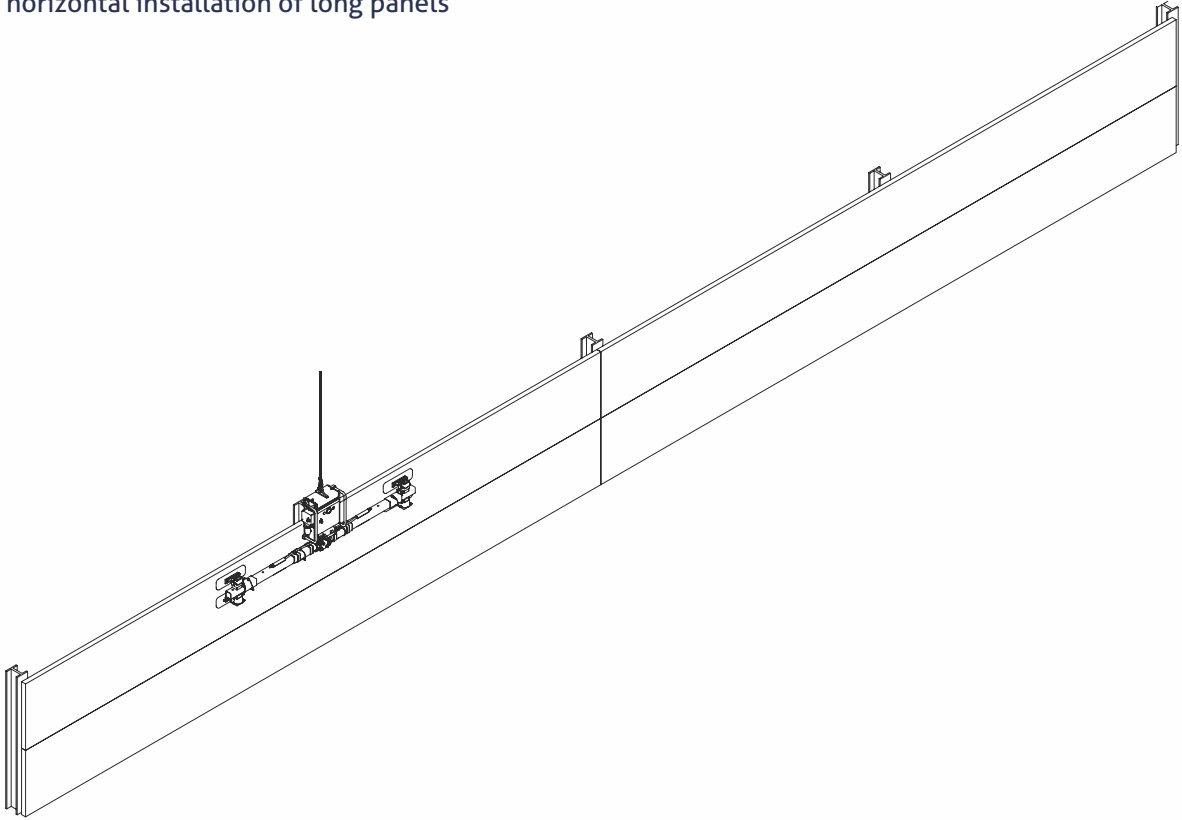


Sandwich panel installation

- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters



- ▷ **Scheme No. 6.** Sample configuration of **CladBoy** machine for horizontal installation of long panels

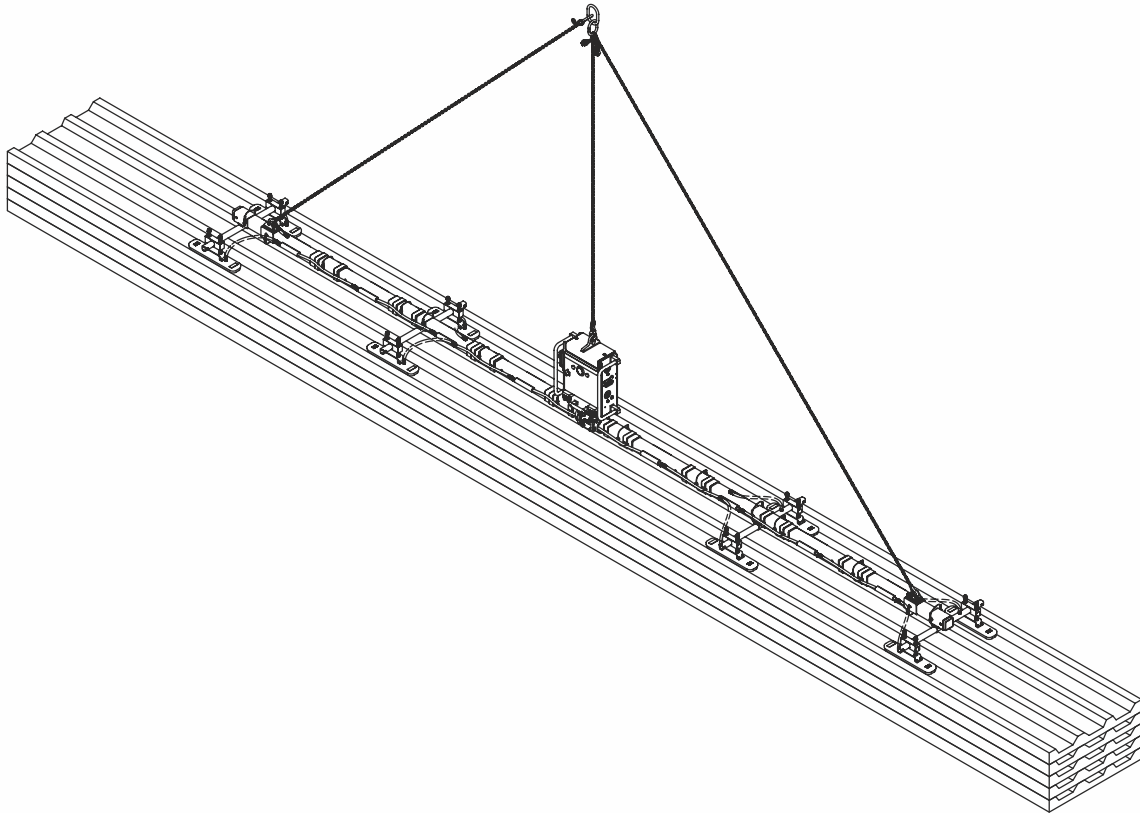


Sandwich panel installation

- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

▷ Scheme No. 7. Installation of a roof panel using CladBoy machine

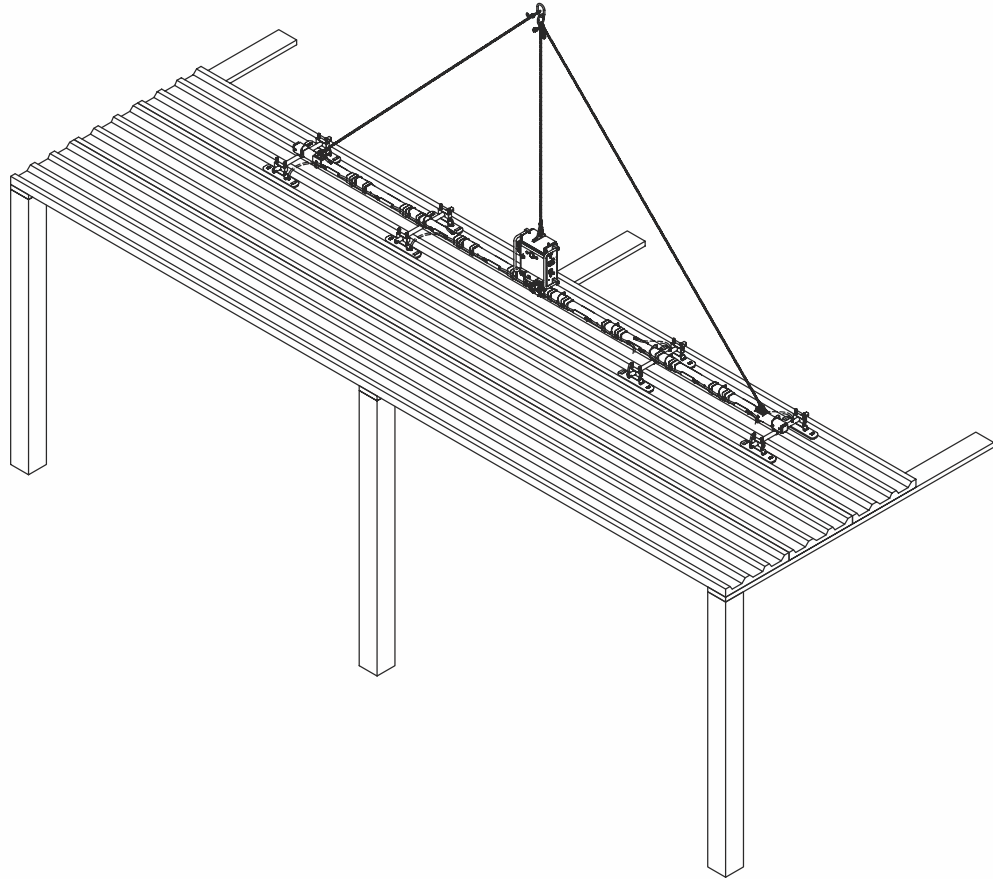
- ▷ 7a. situating the machine and its attachment to the panel



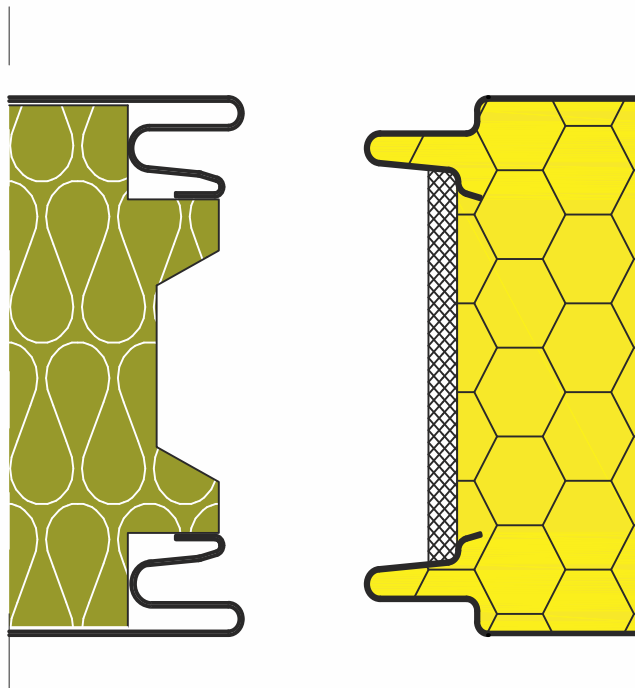
Sandwich panel installation

- ▷ Damage free installation of sandwich panels with VIAVAC vacuum lifters

- ▷ **7b.** installation of panel on the roof and detachment of the machine



▷ **1. Connecting the GS MW groove with the GS insPIRe tongue**



Draw no. 1. Comparison of combined locks.
 Due to the difference in the shape of the locks, it is recommended additional assembly steps are taken to ensure proper tightness of the connection.

▷ **1.1. Laying a strip of mineral wool in the groove of the GS MW panel**



Photo. No. 1. GS MW panel groove with a mineral wool strip laid.
 As a supplement to the lock, it is allowed to use mineral glass wool, cut to the appropriate size on the construction site. Recommended widths are shown in the table below.

Recommended widths of an additional strip of mineral wool				
Type of plate GS MW	CH 100	CH 120	CH 160	CH 200
width of the belt of mineral wool	35 mm	55 mm	95 mm	135 mm

To fix the wool strip in the groove, it is recommended to use double-sided adhesive tape applied on the construction site.

ATTENTION:

- when installed horizontally, it is allowed to replace mineral wool with low-pressure polyurethane foam

▷ **1.2. Installation of the GS insPIRe plate Photo.**

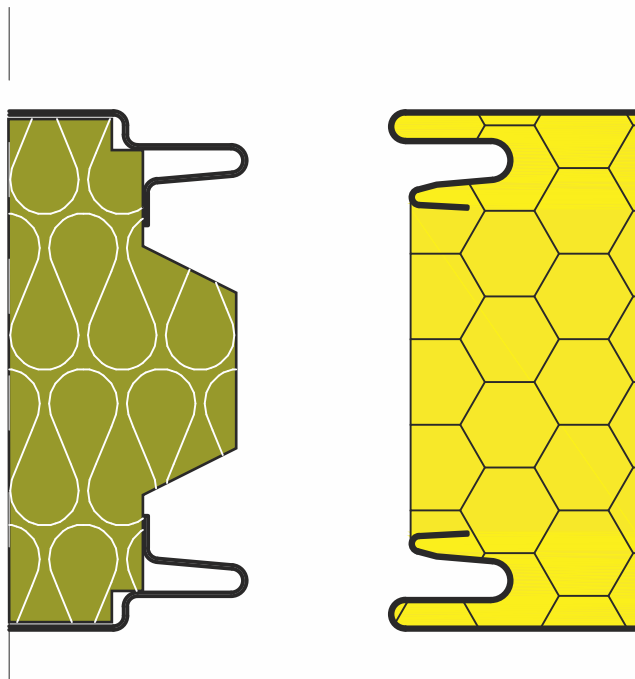


Photo. No. 2. View of the connection (overview)



Photo. No. 3. View of the connection (final version)

▷ **2. Connecting the GS insPIRe groove with a GS MW tongue**



Draw no. 2. Comparison of combined locks

Due to the difference in the shapes of the locks, it is necessary to perform additional assembly steps to ensure proper tightness of the connection.

▷ **2.1. Removal of the GS MW plate tongue**



Photo. No. 3. Suggested way to remove the GS MW plate tongue



Photo. No. 3.P Suggested way to remove the GS MW plate tongue

acceptable ways of removing the tongue:

- manually, with a wallpaper knife,
- mechanically, using an electric milling machine

▷ 2.2. Wygładzenie powierzchni zamka GS MW po usunięciu pióra



Photo. No. 5.

The treatment of "smoothing" the surface of the GS MW lock

After the tongue is removed, smooth the surface of the zipper with a light sandpaper. Particular attention should be paid during this treatment to prevent cavities in the surface of the core and no damage to the varnish coating of the board's cladding.



Photo. No. 6.

View of the lock after "smoothing"

▷ 2.2. Smoothing the surface of the GS MW lock after removing the tongue

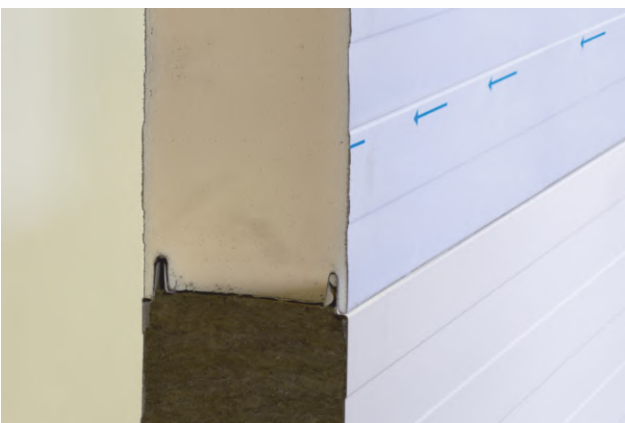


Photo. No. 7.

Connection view (final version)

▷ **ACCESSORIES**

The supplementation of the lightweight housing system from sandwich panels is made of flashings, fasteners and sealing tapes.

▷ **FLASHINGS**

Gór-Stal is equipped with a profiler able to produce steel sheet flashings up to **1,0 mm** thick and **6,0 m** long, in catalogue-typical or custom-made shapes. Available thicknesses and standard colours of the sheets are provided in the table below. The flashings are secured for transportation by means of foiling the external layer.

ATTENTION:

- it is recommended that the flashing be fastened every 30 cm with self-drilling screws to steel sheets or rivets
- possible length of non-standard flashings every 0.5 m in the range of available lengths

Sheet thickness [mm]	Csheet weight [kg/m ²]	Length of standard flashings [m]	Available length of flashings [m]	Sheet standard RAL colours
0,50	4,00	3,0 i 6,0	2,0 - 6,0	3000, 5010, 6011, 7016, 7035, 8017, 9002, 9006, 9007, 9010
0,70	6,00			
1,00	8,00			zinc coating

▷ **SEALS**

We supply sealing tapes presented in the technical solutions of this catalogue, as well as in other dimensions on the client's request: self-adhesive polyurethane (**PUS, PURS**), polyethylene (**PES**) and butyl.

▷ **FASTENERS**

Sandwich panels can be fastened to reinforced concrete, wooden and steel structures with use of appropriate connectors. System connectors are presented in tables below.

Connection	Connector dimensions [mm]
assembly of sandwich panels to steel and wooden structures	self-drilling screw with spacers – minimum length as per table below
assembly of sandwich panels to reinforced concrete structures	screws for concrete base with seals 6,4 x 100-210
assembly of flashings to sandwich panel	screw 4,8 x 20/ 4,2x16
	rivet 4,0 x 8,0
installation of flashings for thin-walled structures inside the facility	screw 4,8 x 19-25
	blind rivet 4,8 x 15,1
aesthetic finish	caps in panel colour

Sandwich panel type and thickness [mm]		Connector dimensions* [mm]
wall panel S	80	screw 5,5/6,4 x 120-140
wall panel U	80	screw 5,5/6,4 x 105-120
	100	screw 5,5/6,4 x 120-140
	120	screw 5,5/6,4 x 140-160
cold store CH	100	screw 5,5/6,4 x 140-160
	120	screw 5,5/6,4 x 160- 180
	160	screw 5,5/6,4 x 195-210
	200	screw 5,5/6,4 x 225-260
	250	screw 5,5/6,4 x 275-315

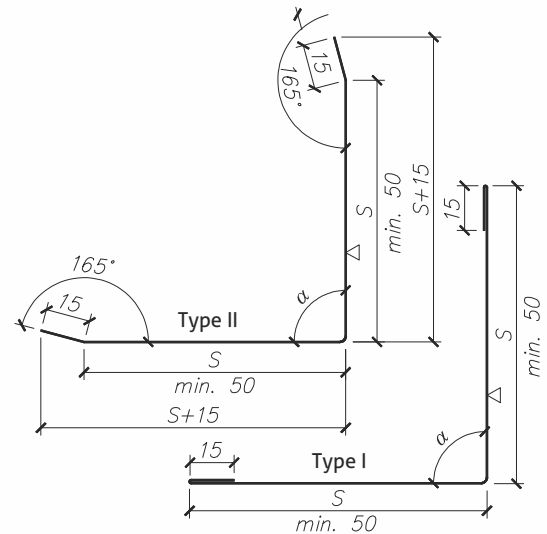
* Necessary length of fastener depends on the structure thickness (details from Sales Representative)

Additional elements

▢ Catalogue of flashings

▢ Flashing OB-01 outer corner

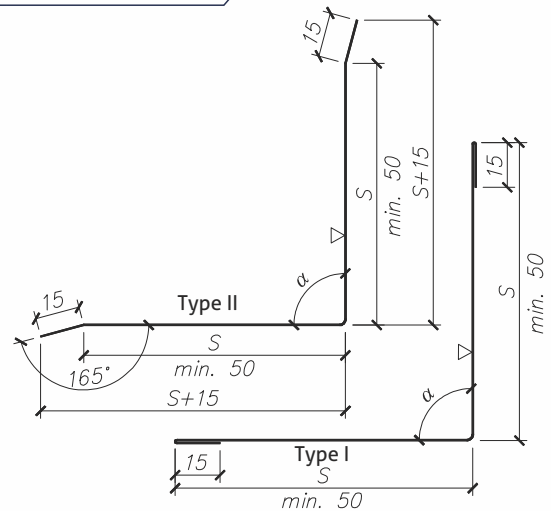
No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-01/50	50	90	6000	3,12
02	OB-01/75	75			4,32
03	OB-01/100	100			5,52
04	OB-01/150	150			7,92
05	OB-01/200	200			10,32
06	OB-01/250	250			12,72
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
07	OB-01/ S=..... / α =..... / L=.....				
08	OB-01/ S1=..... / S2=..... / α =..... / L=.....				



The use is described in detail on page 60

▢ Flashing OB-02 inner corner

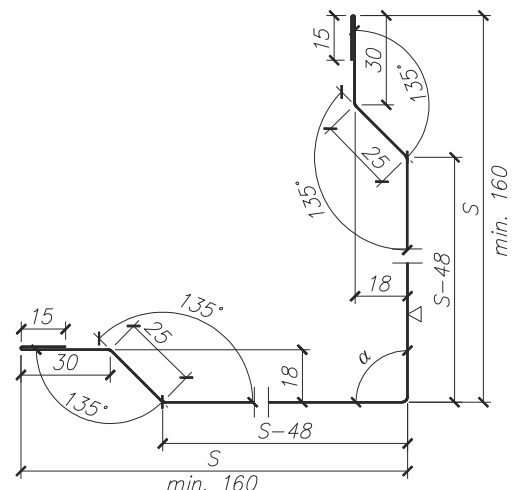
No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-02/50	50	90	6000	3,12
02	OB-02/75	75			4,32
03	OB-02/100	100			5,52
04	OB-02/150	150			7,92
05	OB-02/200	200			10,32
06	OB-02/250	250			12,72
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
07	OB-02/ S=..... / α =..... / L=.....				
08	OB-02/ S1=..... / S2=..... / α =..... / L=.....				



The use is described in detail on page 17

▢ Flashing OB-03 outer corner, covering connectors

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-03/160	160	90	6000	8,74
02	OB-03/180	180			9,70
03	OB-03/200	200			10,66
04	OB-03/220	220			11,62
05	OB-03/240	240			12,58
06	OB-03/260	260			13,54
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
07	OB-03/ S=..... / α =..... / L=.....				
08	OB-03/ S1=..... / S2=..... / α =..... / L=.....				



The use is described in detail on page 17

Additional elements

▢ Catalogue of flashings

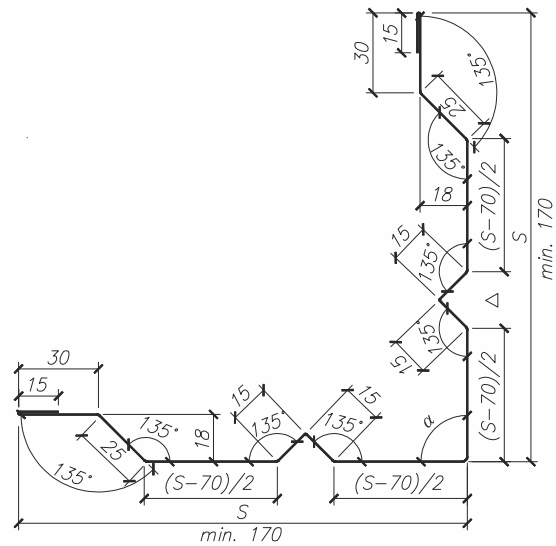
▢ Flashing OB-03a

outer corner, covering connectors
(alternative for OB-03)

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-03a/180	180	90	6000	10,08
02	OB-03a/200	200			11,04
03	OB-03a/220	220			12,00
04	OB-03a/240	240			12,96
05	OB-03a/260	260			13,92
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
06	OB-03a/ S=..... / α = / L=				
07	OB-03a/ S1=..... / S2=..... / α = / L=				

NOTE:

Not described angles should be made as a right angle.



The use is described in detail on page 17

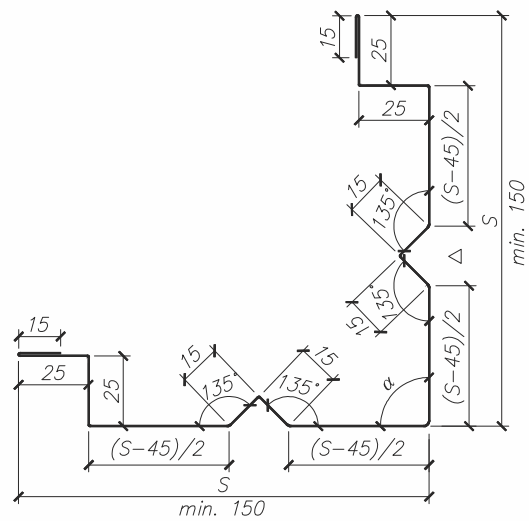
▢ Flashing OB-03b

outer corner, covering connectors
(alternative for OB-03)

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-03b/160	160	90	6000	10,08
02	OB-03b/180	180			11,04
03	OB-03b/200	200			12,00
04	OB-03b/220	220			12,96
05	OB-03b/240	240			13,92
06	OB-03b/260	260			14,88
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
07	OB-03b/ S=..... / α = / L=				
08	OB-03b/ S1=..... / S2=..... / α = / L=				

NOTE:

Not described angles should be made as a right angle.

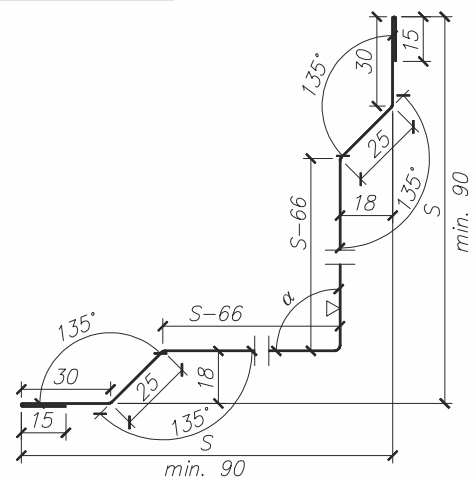


The use is described in detail on page 17

▢ Flashing OB-04

inner corner, covering connectors

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-04/100	100	90	6000	4,99
02	OB-04/120	120			5,95
03	OB-04/150	150			7,39
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
04	OB-04/ S=..... / α = / L=				
05	OB-04/ S1=..... / S2=..... / α = / L=				



The use is described in detail on page -

Additional elements

▢ Catalogue of flashings

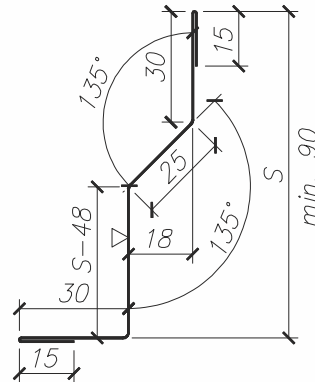
▢ Flashing OB-05

inner corner, covering at flooring

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-05/90	90	-	6000	3,77
02	OB-05/120	120	-	6000	4,49
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
03	OB-05/ S=..... / L=				

NOTE:

Not described angles should be made as a right angle.

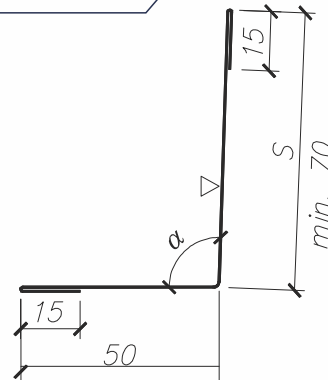


The use is described in detail on page 16

▢ Flashing OB-06

inner corner, covering at flooring

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-06/70	70	92	6000	3,60
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
02	OB-06/ S=..... / α = / L=				

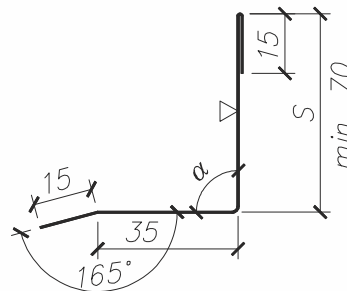


The use is described in detail on page 28

▢ Flashing OB-07

covering corner

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-07/70	70	90	6000	3,24
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
02	OB-07/ S=..... / α = / L=				

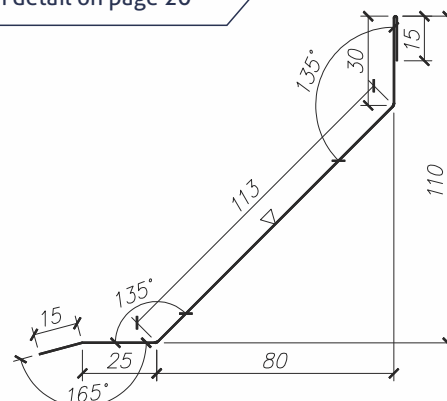


The use is described in detail on page 20

▢ Flashing OB-08

inner corner, covering at grade beam

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-08	-	-	6000	4,75



The use is described in detail on page 14

Additional elements

▢ Catalogue of flashings

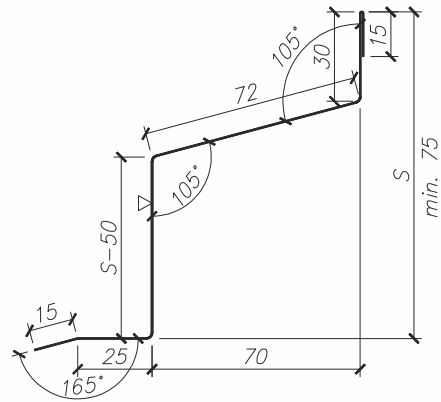
▢ Flashing OB-09

inner corner, covering at grade beam

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-09/110	110	-	6000	5,21
02	OB-09/150	150			6,17
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
03	OB-09/ S=..... / L=				

NOTE:

Not described angles should be made as a right angle.

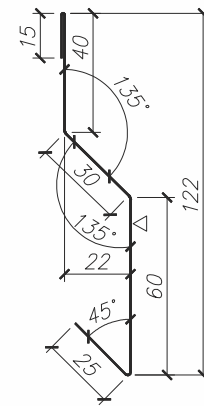


The use is described in detail on page 46

▢ Flashing OB-10

narrow wall drip edge

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-10	-	-	6000	4,08

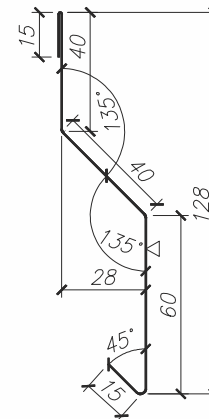


The use is described in detail on page 14

▢ Flashing OB-11

wide wall drip edge

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-11	-	-	6000	4,08

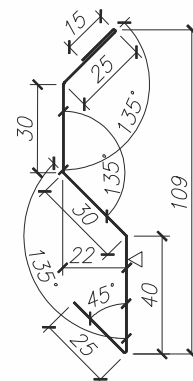


The use is described in detail on page -

▢ Flashing OB-12

wall drip edge

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-12	-	-	6000	3,96



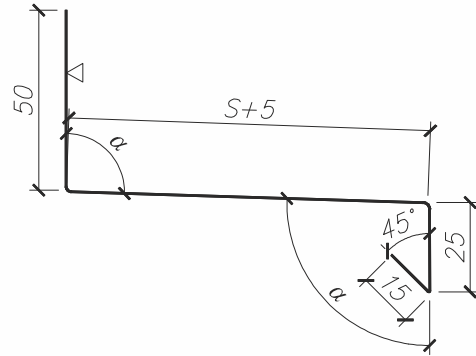
The use is described in detail on page -

Additional elements

▢ Catalogue of flashings

▢ Flashing OB-13 plinth drip tray

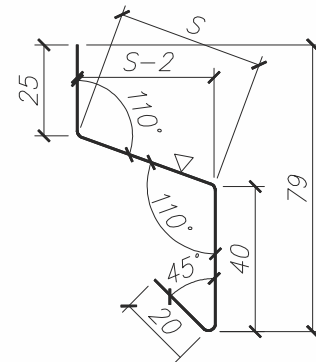
No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-13/60	60	92	6000	3,72
02	OB-13/80	80			4,20
03	OB-13/100	100			4,68
04	OB-13/120	120			5,16
05	OB-13/140	140			5,64
06	OB-13/160	160			6,12
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
07	OB-13/ S=..... / α = / L=				



The use is described in detail on page 14

▢ Flashing OB-14 small plinth drip tray

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-14/30	30	-	6000	2,76
02	OB-14/40	40			3,00



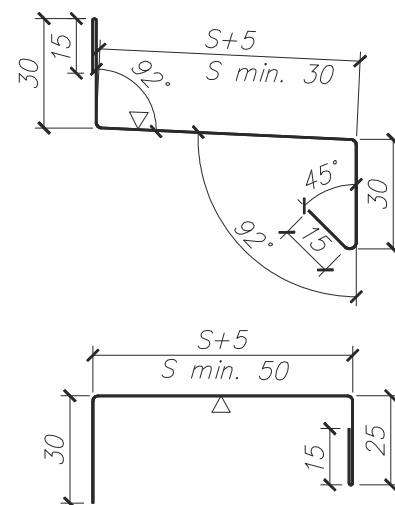
The use is described in detail on page 25

▢ Flashing OB-15 plinth drip tray with stiffening OB-15 + OB-15a

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-15/70	70	-	6000	3,96
02	OB-15/90	90			4,44
03	OB-15/110	110			4,92
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
04	OB-15/ S=..... / L=.....				
Standard – steel sheet 0,5 mm thick					
05	OB-15a/70	70	-	6000	3,48
06	OB-15a/90	90			3,96
07	OB-15a/110	110			4,44
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
08	OB-15a/ S=..... / L=.....				

NOTE:

Not described angles should be made as a right angle.



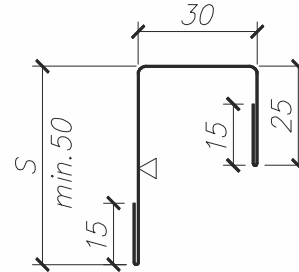
The use is described in detail on page 58

Additional elements

▢ Catalogue of flashings

▢ Flashing OB-16 under-gutter rigid flashing

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-16/50	50	-	6000	3,24
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
02	OB-16/ S=..... / L=				



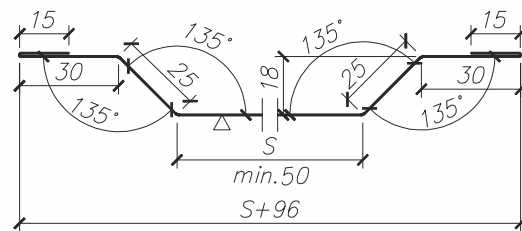
NOTE:

Not described angles should be made as a right angle.

The use is described in detail on page 23

▢ Flashing OB-17 covering panels connection

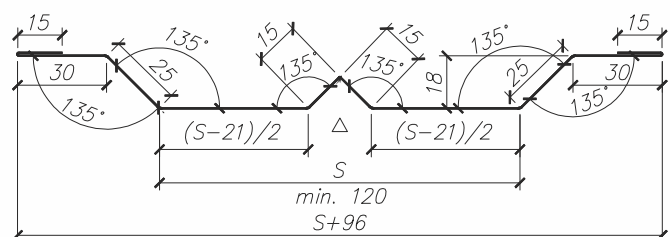
No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-17/40	40	-	6000	4,32
02	OB-17/60	60			4,80
03	OB-17/80	80			5,28
04	OB-17/100	100			5,76
05	OB-17/120	120			6,24
06	OB-17/140	140			6,72
07	OB-17/160	160			7,20
08	OB-17/180	180			7,68
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
09	OB-17/ S=..... / L=				



The use is described in detail on page 31

▢ Flashing OB-17a covering panels connection (alternative for OB-17)

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-17a/120	120	-	6000	6,46
02	OB-17a/140	140			6,94
03	OB-17a/160	160			7,42
04	OB-17a/180	180			7,90
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
05	OB-17a/ S=..... / L=				



NOTE:

Not described angles should be made as a right angle.

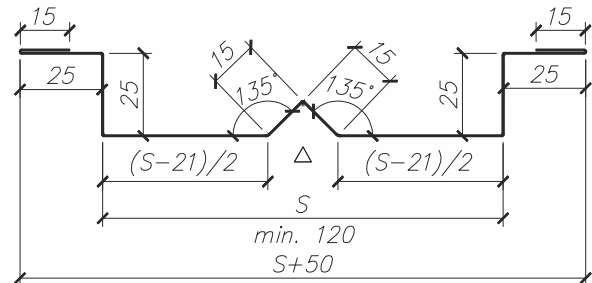
The use is described in detail on page 31

Additional elements

▢ Catalogue of flashings

▢ Flashing OB-17b covering panels connection (alternative for OB-17)

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-17b/120	120	-	6000	6,22
02	OB-17b/140	140			6,70
03	OB-17b/160	160			7,18
04	OB-17b/180	180			7,66
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
05	OB-17b/ S=..... / L=				



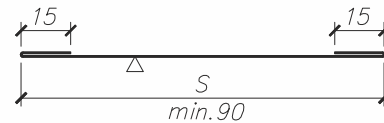
NOTE:

Not described angles should be made as a right angle.

The use is described in detail on page 31

▢ Flashing OB-18 covering

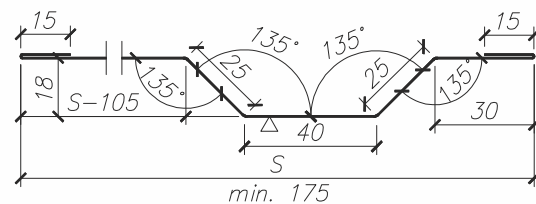
No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-18/90	90	-	6000	2,88
02	OB-18/100	100			3,12
03	OB-18/120	120			3,60
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
04	OB-18/ S=..... / L=				



The use is described in detail on page 62

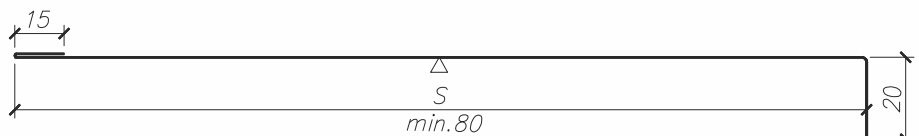
▢ Flashing OB-19 covering

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-19/175	175	-	6000	5,28
02	OB-19/195	195			5,76
03	OB-19/215	215			6,24
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
04	OB-19/ S=..... / L=				



The use is described in detail on page 19

▢ Flashing OB-20 covering door lintel



No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
01	OB-20/ S=..... / L=.....				

NOTE:

Not described angles should be made as a right angle.

The use is described in detail on page 22

Additional elements

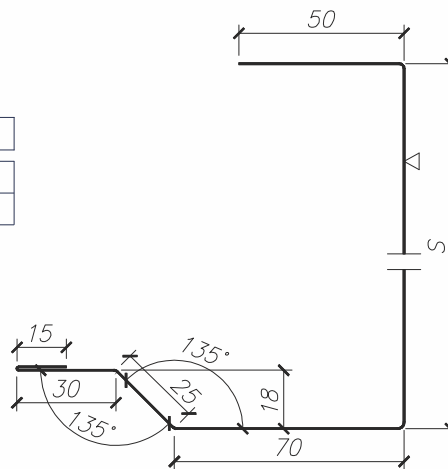
▢ Catalogue of flashings

▢ Flashing OB-21 covering door post

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
01	OB-21/ S=..... / L=.....				

NOTE:

Not described angles should be made as a right angle.



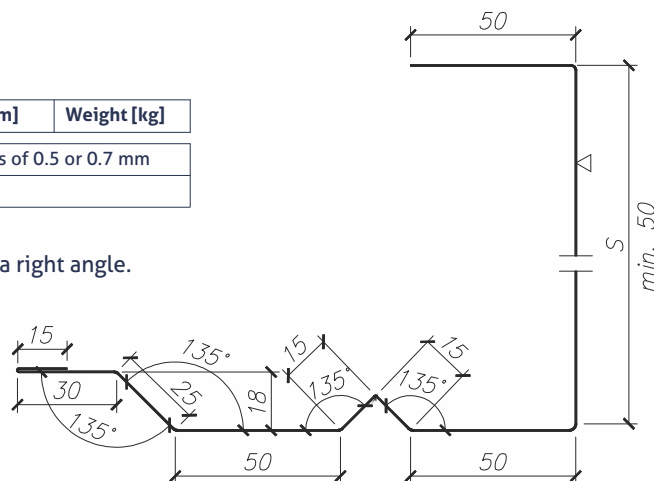
The use is described in detail on page 21

▢ Flashing OB-21a covering door post (alternative for OB-21)

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
01	OB-21a/ S=..... / L=.....				

NOTE:

Not described angles should be made as a right angle.



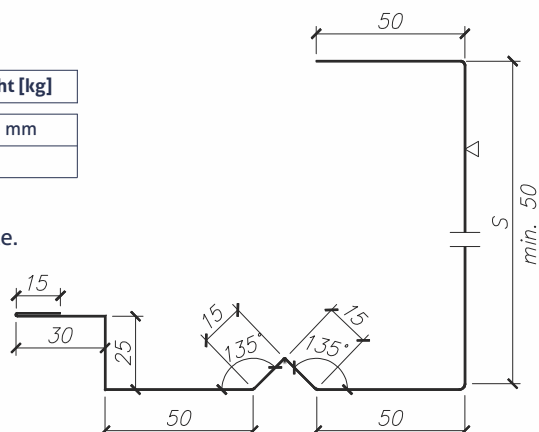
The use is described in detail on page 21

▢ Flashing OB-21b masking junction of panels (alternative for OB-21)

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
01	OB-21b/ S=..... / L=.....				

NOTE:

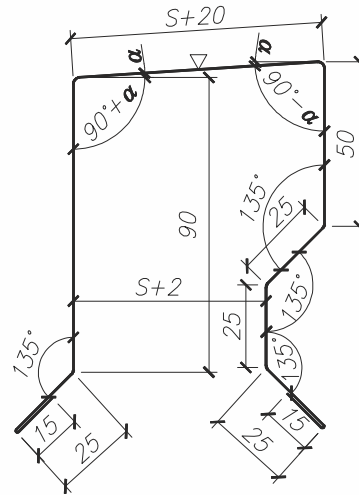
Not described angles should be made as a right angle.



The use is described in detail on page 21

▷ Flashing OB-34
attic wall - type I

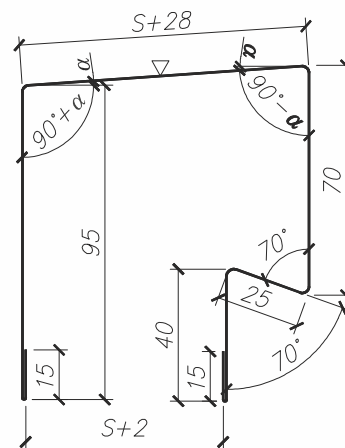
No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-34/40	40	according to the order	6000	7,92
02	OB-34/60	60			8,40
03	OB-34/80	80			8,88
04	OB-34/100	100			9,36
05	OB-34/120	120			9,84
06	OB-34/140	140			10,32
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
07	OB-34/ S=..... / α = / L=				



The use is described in detail on page -

▷ Flashing OB-35
attic wall - type II

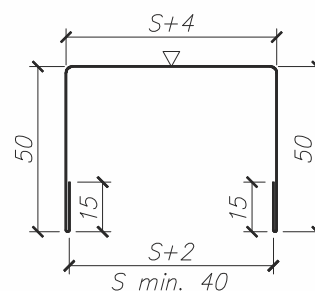
No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-35/40	40	according to the order	6000	7,87
02	OB-35/60	60			8,35
03	OB-35/80	80			8,83
04	OB-35/100	100			9,31
05	OB-35/120	120			9,79
06	OB-35/140	140			10,27
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
07	OB-35/ S=..... / α = / L=				



The use is described in detail on page -

▷ Flashing OB-36
U channel section

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-36/40	40	-	6000	4,18
02	OB-36/60	60			4,66
03	OB-36/80	80			5,14
04	OB-36/100	100			5,62
05	OB-36/120	120			6,10
06	OB-36/160	160			7,06
07	OB-36/200	200			8,02
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
08	OB-36/ S=..... / L=				



NOTE:

Not described angles should be made as a right angle.

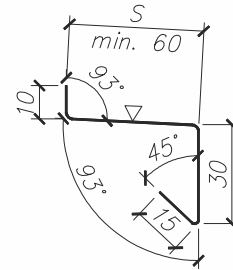
The use is described in detail on page -

Additional elements

▢ Catalogue of flashings

▢ Flashing OB-37 window cill

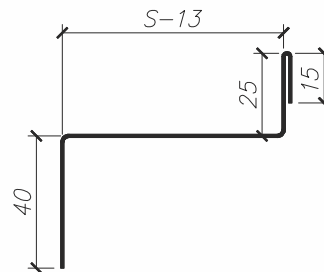
No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
01	OB-37/60	60	-	6000	2,76
02	OB-37/80	80			3,24
03	OB-37/100	100			3,72
Unusual from sheet metal with a thickness of 0.5 or 0.7 mm					
04	OB-37/ S=...../ L=				



The use is described in detail on page 24

▢ Flashing OB-38 edge bar for S panels

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1,0 mm thick					
01	OB-38/60	60	-	6000	6,10
02	OB-38/80	80			7,06
03	OB-38/100	100			8,02



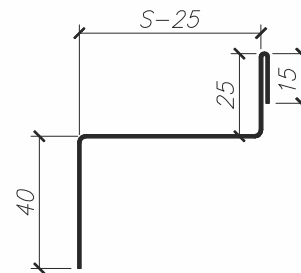
NOTE:

Not described angles should be made as a right angle.

The use is described in detail on page 25

▢ Flashing OB-39 edge bar for U panels

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1,0 mm thick					
01	OB-39/60	60	according to the order	6000	5,52
02	OB-39/80	80			6,48
03	OB-39/100	100			7,44
04	OB-39/120	120			8,40
05	OB-39/140	140			9,36



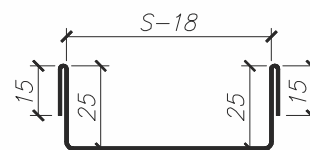
NOTE:

Not described angles should be made as a right angle.

The use is described in detail on page 57

▢ Flashing OB-40 starting

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1,0 mm thick					
01	OB-40/60	60	-	6000	5,86
02	OB-40/80	80			6,82
03	OB-40/100	100			7,78
04	OB-40/120	120			8,74
05	OB-40/160	160			10,66
06	OB-40/200	200			12,58



NOTE:

Not described angles should be made as a right angle.

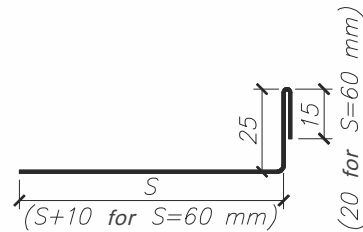
The use is described in detail on page -

Additional elements

▷ Catalogue of flashings

▷ Flashing OB-41 edge bar

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1,0 mm thick					
01	OB-41/60	60	-	6000	5,52
02	OB-41/80	80			5,76
03	OB-41/100	100			6,72
04	OB-41/120	120			7,68
05	OB-41/140	140			8,64



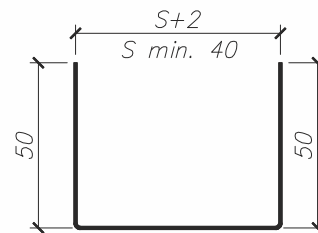
NOTE:

Not described angles should be made as a right angle.

The use is described in detail on page 56

▷ Flashing OB-42 edge bar

No.	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1,0 mm thick					
01	OB-42/40	40	-	6000	6,82
02	OB-42/60	60			7,78
03	OB-42/80	80			8,74
04	OB-42/100	100			9,70
05	OB-42/120	120			10,66
06	OB-42/160	160			12,58
07	OB-42/200	200			14,50
Unusual from sheet metal with a thickness of 1.0					
08	OB-42/ S=..... / L=				



NOTE:

Not described angles should be made as a right angle.

The use is described in detail on page 16

▷ Flat metal sheets

width [mm]	available thicknesses [mm]	typical lengths [mm]	panel used **		available colours
			external facing	internal facing	
1073	0,5 i 0,7*	3000 i 6000	S thickness 40 mm module 1000	S thickness 40 mm module 1000	compatible with plate tables
1108			S (apart from a thickness of 40 mm) modut 1000, CH modut 1000	S (apart from a thickness of 40 mm) module 1000, U, CH module 1000	
1183			U	-	
1250			S module 1140, CH module 1140	S module 1140, CH module 1140	

*- offered upon special order

** - to avoid the difference in colour, it is recommended to choose metal sheet width appropriate to the kind of panel used

Documentation

Order form of
SANDWICH PANELS



Order: No _____ of _____

Supplier: (name, company address, phone/fax, TIN)

Gór-Stal sp. z o.o.

No. 11 Przemysłowa st.
38-300 Gorlice, Poland
Tel./Fax: + 48 18 353 98 00
Account No: 79 1140 1081 0000 5859 5500 1001

Agent: _____

Commercial Terms:	
Payment method:	
Advance (%): _____	payable until: _____
Full payment:	
Credit limit:	
Remarks:	

Ordering party: (name, company address, phone/fax, TIN)

Agent:
Remarks:

Delivery place: (recipient, address, city, post code, phone/fax)

L.P.	Plate type: GS MW S GS MW CH GS MW U	Thickness [mm]: 80 100 120 160 200 250 80 100 120	Panel profiling:		Plate width [mm]: 1000 1140	Colour RAL:		Quantity:		Net price Unit/value:	
			ext.	int.		ext.	int.	L. [m]	pcs.	EUR/m ²	EUR
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											
11											
12											
13											
14											
15											
In total:								[m²]:	[EUR]:		

Party's Signature Ordering: _____

Documentation

Order form of INDIVIDUAL FLASHING



Order: no _____ of _____

To sandwich panels order: No _____ of _____

Supplier: (name, company address, phone/fax, TIN)

Gór-Stal sp. z o.o.

No. 11 Przemysłowa st.
38-300 Gorlice. Poland
Tel./Fax: + 48 18 353 98 00
Account No: 79 1140 1081 0000 5859 5500 1001

Commercial Terms:

Payment method:

Advance (%): _____ payable until: _____

Full payment:

Credit limit:

Remarks:

Ordering party: (name, company address, phone/fax, TIN)

Delivery place: (recipient, address, city, post code, phone/fax)

Flashing length: 6 m.
Default $\alpha = 90^\circ$
Shape of flashing acc. to technological catalogue

Ordering Party's signature:

Symbol	S [mm]	α [°]	Thickness [mm]	Length [mm]	Quantity [szt.]	Total weight	Colour RAL
OB-01							
OB-02							
OB-03							
OB-03a							
OB-03b							
OB-04							
OB-05		-					
OB-06							
OB-07							
OB-08	-	-					
OB-09	-	-					
OB-10	-	-					
OB-11	-	-					
OB-12	-	-					
OB-13							
OB-14	-	-					
OB-15							
OB-15a		-					
OB-16	-	-					
OB-17		-					
OB-17a		-					
OB-21		-					
OB-21a		-					
OB-21b		-					
OB-34	-	-					
OB-35		-					
OB-36		-					
OB-37		-					
OB-38		-					
OB-39		-					
OB-40		-					
OB-41		-					
OB-42		-					
Total:							
Net price:							
Net value:							

ACCESSORIES	Type	Size [mm]	Quantity [pcs./Lm]	Colour RAL
Bolts fixing the plate to the structure	Steel GT6			
	Steel G12			
	Wood / Concrete			
Screws for flashings				
Rivets				
Gasket	PE			
Gasket	PES			
Gasket	PUS			
Gasket				
Saddle washer	35-35	-		
Washer	Pm1	-		
Covering caps	-----			
Connector	ALF			

Documentation

Order form of

INDIVIDUAL FLASHING



Order: No _____ of _____

Supplier: (name, company address, phone/fax, TIN)

Gór-Stal sp. z o.o.

No. 11 Przemysłowa st.

38-300 Gorlice

Tel./Fax: + 48 18 353 98 00

Account No: 79 1140 1081 0000 5859 5500 1001

Agent: _____

Ordering party: (name, company address, phone/fax, TIN)

Delivery place: (recipient, address, city, post code, phone/fax)

No.	Sheet thickness [mm]:	Colour RAL:	Length [m]:	Quantity:

Nr.	Sheet thickness [mm]:	Colour RAL:	Length [m]:	Quantity:

Remark:

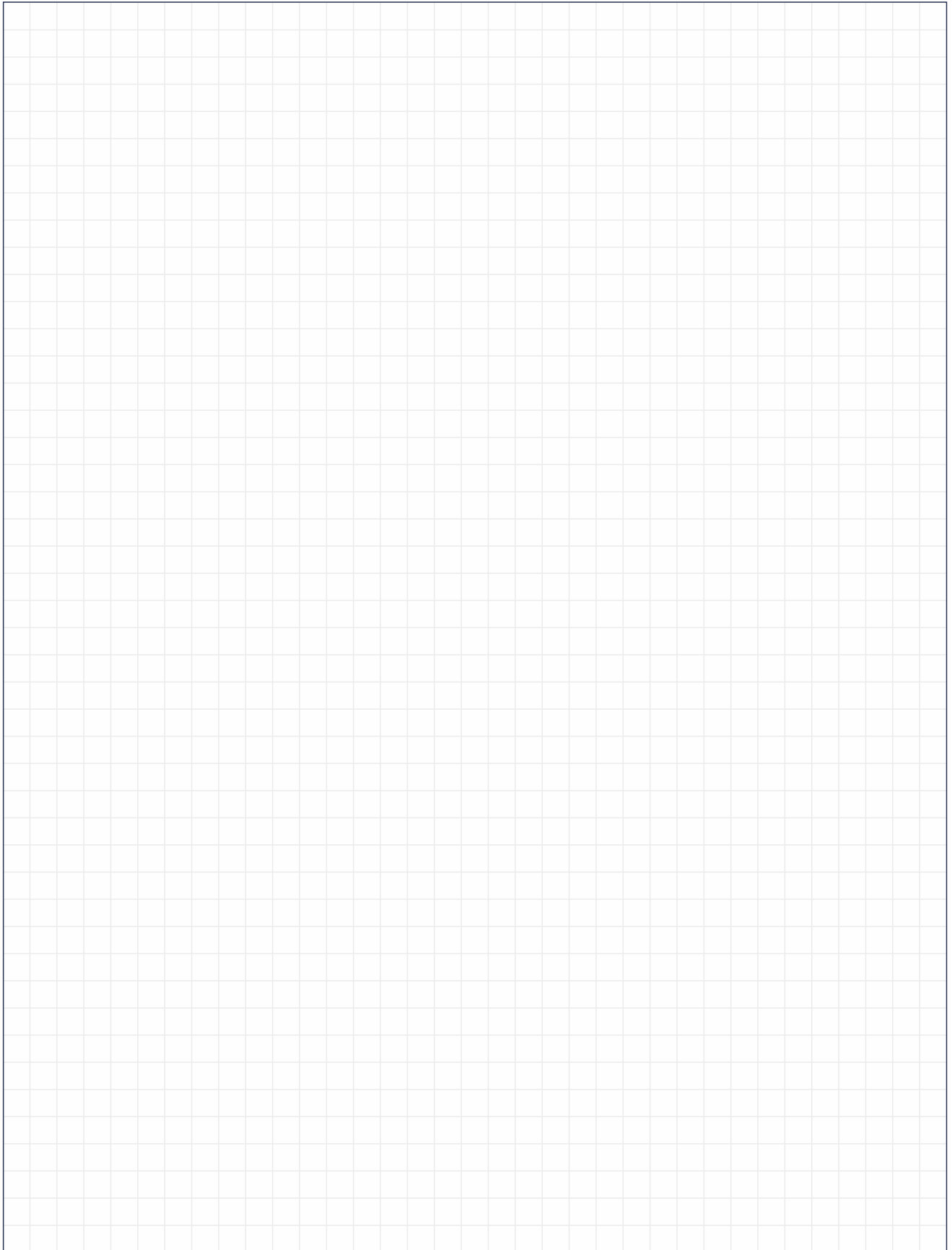
01. Boundary conditions:

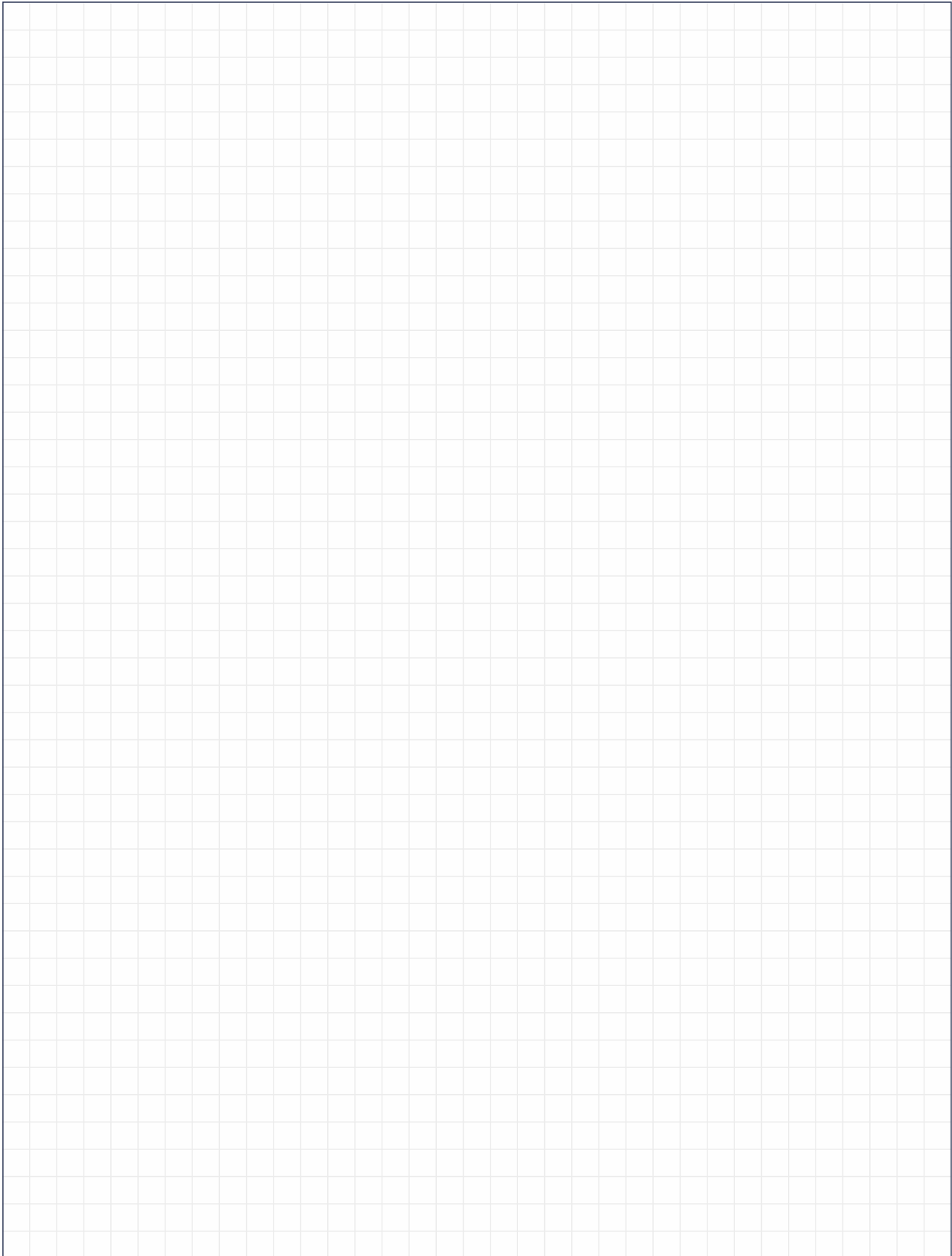
- unfolding -> min 114 mm
- shelf width -> min 25 mm
- width of the notching/bend -> min 15 mm
- bending angle -> min 45°
- with an unfolding of above 350 mm, it is recommended to shorten the processing to 3.0 mb.

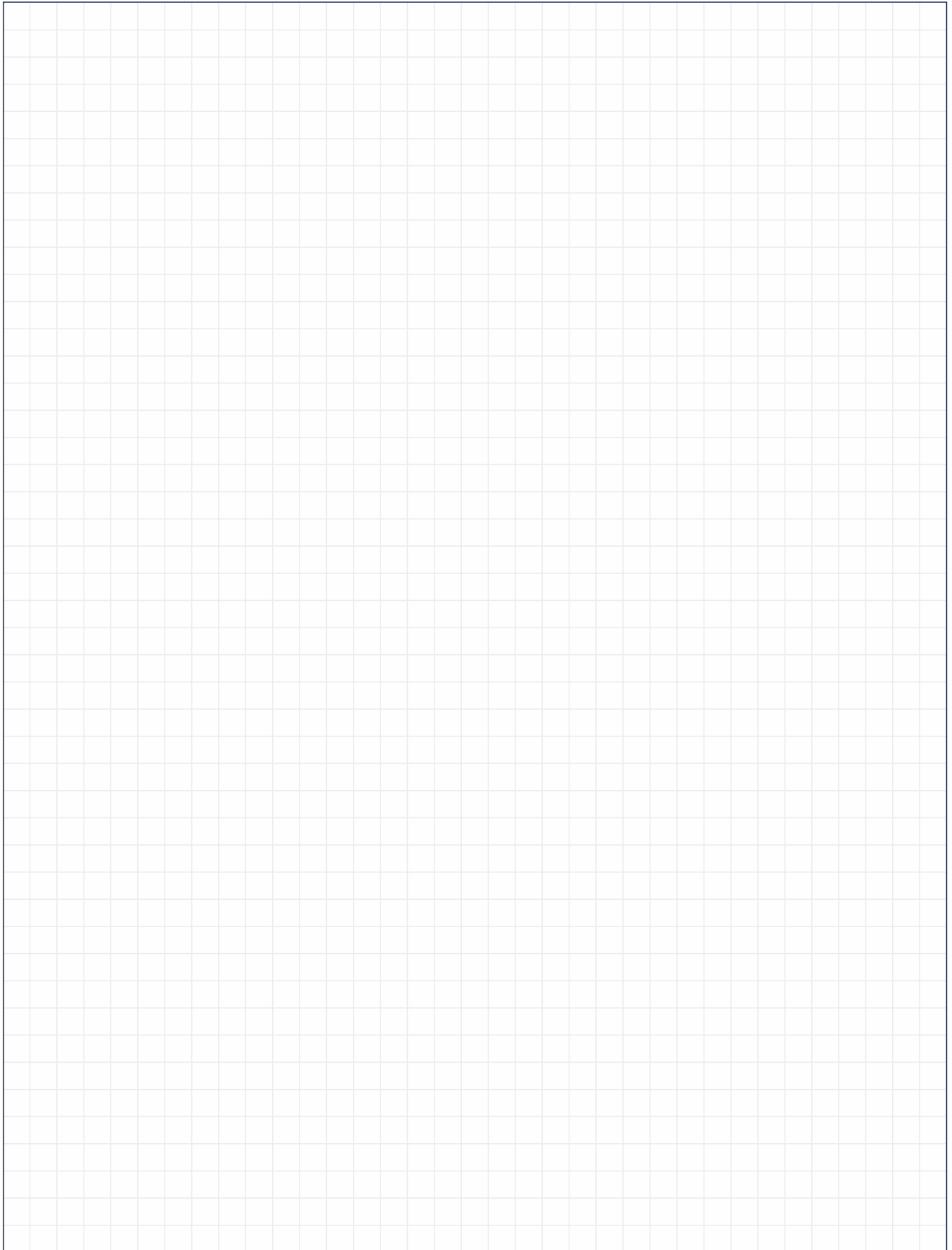
02. The flashings will be made in accordance with the above drawings and their dimensions.

Remark:

Ordering Party's signature:



A large rectangular area filled with a light gray grid pattern, intended for taking notes or drawing technical diagrams. The grid consists of small, uniform squares.



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Update: 23.03.2022



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