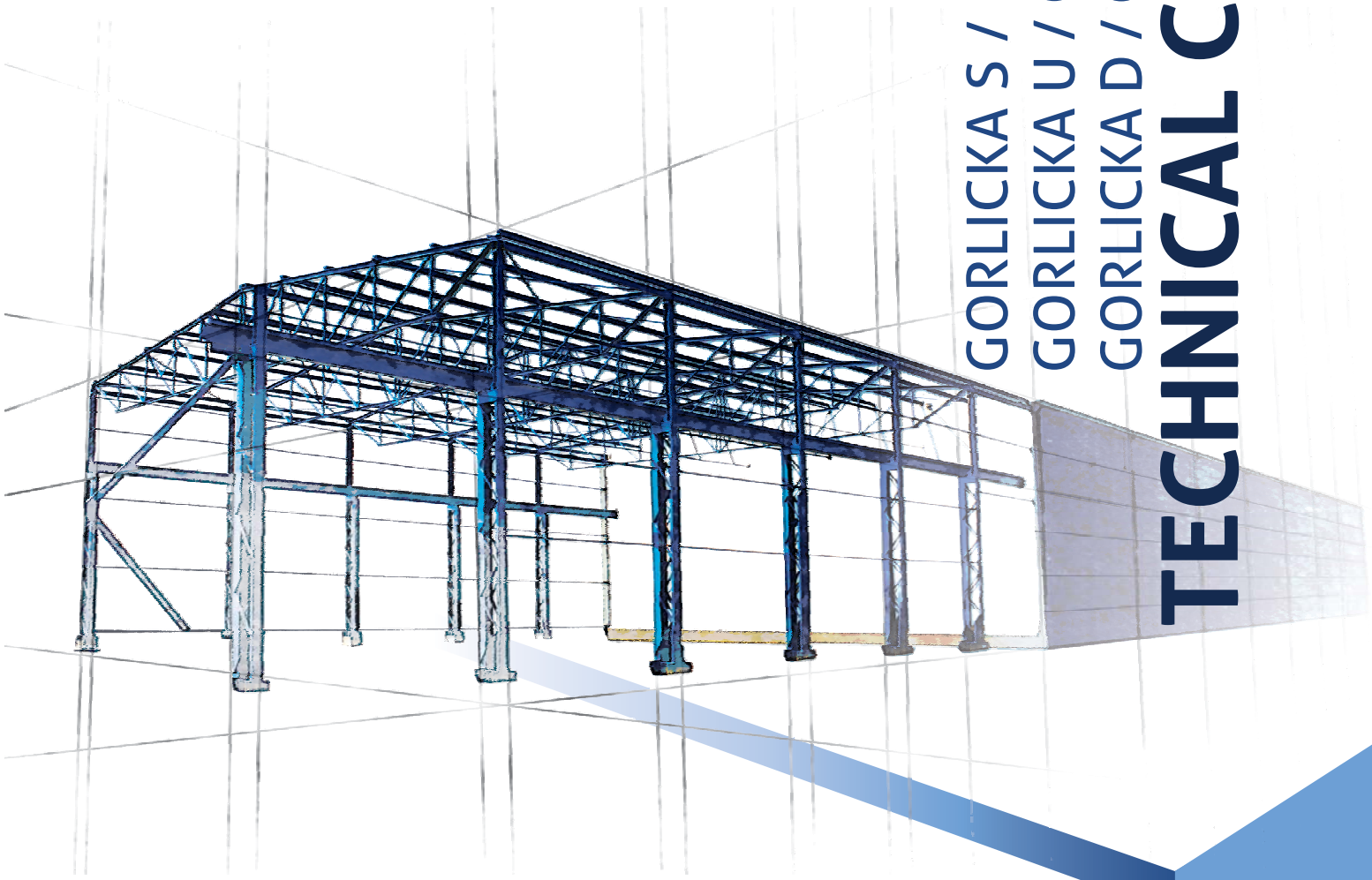
GÓR-STAL
SANDWICH PANELS

TECHNICAL CATALOGUE

GORLICKA S / GORLICKA S GS-PIR
GORLICKA U / GORLICKA U GS-PIR
GORLICKA D / GORLICKA D GS-PIR



CERTIFIED ISO 9001:2009 COMPANY

GÓR-STAL

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INTRODUCTION

This publication is intended to present an assortment and technical properties of **GORLICKA** panels to our customers. With over 12 years 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 panels. 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 panels.

ABOUT THE PRODUCT

Gór-Stal offers a wide range of modern wall, roof and coldstore sandwich panels with **polyurethane (PUR)** or **polyisocyanurate (PIR)** core. **GORLICKA** sandwich panels consist of two steel claddings and a structural insulation core of rigid, HCFC-free self-extinguishing PUR or PIR foam with very good thermal insulation. When building with composite panels, you can create an object with excellent insulation properties, with a significant reduction in the thickness and weight. Speed and ease of installation, 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 **GORLICKA** composite 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

GORLICKA sandwich panels have two types of cores of polyurethane **(PUR)** or polyisocyanurate **(PIR)** foam with a density of **40 kg/m^3**. The heat conductivity calculation value of the foam is: **λ= 0.022 W/m*K**. Bonds in PUR foams disintegrate at temperatures above **200 °C**, and carbonization during burning is approximately **20%**. PIR foams are characterized by an increased resistance to high temperatures. Isocyanurate structures of PIR foams decompose at temperatures above **325 °C**, and carbonization is approximately **50%**. The carbonized layer protects against heat transition through the panel, which in turn provides an effective protection against fire. 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 GORLICKA 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

GORLICKA sandwich panel have the following certificates and technical approvals:

- Quality Management System certificate **ISO 9001: 2009;**
- CE declaration of conformity in accordance with **EN 14509: 2013** - **GORLICKA** sandwich panels with a core of rigid **polyurethane (PUR)** or **polyisocyanurate** foam in sheet metal facing;
- **Declaration of Performance** in accordance with Regulation (EU) **No. 305/2011 CE**;
- **Hygienic Approval No. HK/B/0250/01/2012** - allowing for use in service, commercial, industrial, food processing, refrigeration facilities, residential and public buildings, including health service.

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PRODUCTION PROGRAMME

The production program for **GORLICKA** sandwich panel systems includes the following items:
Wall sandwich panels:
GORLICKA S / GORLICKA S GS-**PIR** – (standard cam-lock) – thickness: 40, 60, 80 and 100 mm;
GORLICKA U / GORLICKA U GS-**PIR** – (hidden cam-lock) – thickness: 60, 80 , 100 and 120 mm
Roof sandwich panels:
GORLICKA D / GORLICKA D GS-**PIR** – (roof cam-lock) – thickness: 40, 60, 80, 100, 120 and 160 mm;
Coldstore panels:
GORLICKA CH / GORLICKA CH GS-**PIR** – (cold storage cam-lock) – thickness: 100, 120, 160 and 200 mm;
Flashings: typical and custom made according to the client's design with a maximum length of 6m.
This publication provides detailed characteristics of GORLICKA sandwich panels.

GUIDELINES FOR TRANSPORT

GORLICKA 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:

- one forklift can be used to transport batches up to **8 m** long. Longer panels shall be unloaded with two forklifts. The space between supports of the transported batch may not exceed **4 m**.
- for unloading with a lift equipped with rope slings use spacers preventing the panels from being squeezed.

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

- free access on both sides of the trailer along its entire length.
- up to 2 batches of panels in one stake.
- the width of the loading area: minimum **2450 mm** (in case of 2 stakes of panel).
- support for the batch provided on the entire length of the load-carrying body.
- panels may not contact one another, the load-carrying body or the transportation belts.
- the vehicle must be equipped with load fixing belts; flexible separators shall be placed under the belts. Tensioned belts must not deform the panels.
- Plates indicating the number of panels in a batch are available in the technical specification of specific panels.

GUIDELINES FOR MOUNTING

The manufacturer of GORLICKA sandwich panels recommends using flashings and cam-locks supplied with the panel as part of the GORLICKA panels light housing system.

When mounting the panels, follow the guidelines provided below:

- cut the plates and flashings with a fine-toothed sawing machine or tinman's shears – do not use cut-off wheels!
- cut the panels and flashings at a properly prepared station in order not to damage the lacquer and tin coatings.
- remove the protection foil after the panels have been installed, but not later than 3 months after purchase.
- 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 pay great importance to friendly and professional service to our customers. Technical department and sales representatives provide assistance for designers, engineers and contractors in the designing, ordering and advising on the application of our products and their installation. Customers are offered active support from the design stage to installation. We provide instant technical advice and cost calculation. The process of ordering and delivery is coordinated by our **Customer Service Department**. For more information visit our website **www.gor-stal.pl**

APPLICATION

GORLICKA S/GORLICKA S GS-PIR wall panel is designed for outer screening walls and inner partition walls in structural frame buildings. Panels can be mounted in both vertical and horizontal position, as single-span or multi-span wall elements.

PHYSICAL PROPERTIES

GORLICKA S / GORLICKA S GS-PIR wall panel is produced in the four thicknesses of the core **40, 60, 80** and **100 mm.** Panels facing is made of double-sided galvanized steel sheets, 0.50 mm thick as per **PN-EN 10326:2006**, with organic polyester coating **25µm** thick. Thermal insulation core of the panels is a rigid polyurethane **(PUR)** or polyisocyanurate **(PIR)** foam with a thickness of **40 kg/m³**. The heat conductivity calculation value of the foam is: **λ= 0.022 W/m*K**. Modular width of plates is **1000 mm** or **1140 mm.** The standard panel length is between **2.0 to 12 m.** On special request we deliver panels shorter than **2 m** and longer than **12 m**, with a maximum length of **16.5 meters**. Tightness of panel joints is provided by impregnated polyurethane seals applied in the manufacturing process.

Thickness [mm]	Weight [kg/m²]	Modular width [mm]	Length: typical/available [m]	Lining standard RAL colours
40	9,38	1000 1140 - for thickness 60 mm or higher and profilation L or M	2,0 - 12,0 / 16,5	9002 9010 9006*
60	10,43			
80	11,23			
100	12,03			

*colour is inaccessible for thickness 40

Thermal insulation of panels depends on the thickness of the core characterized **by U** thermal coefficient, taking into account the impact of linear thermal bridge appearing on panel joint and point thermal bridge appearing because of connectors. **Acoustic parameters** were determined on the basis of **EN ISO 10140-3**. Coldstore plates can be used as partitions of the requirements of sound insulation no greater than those specified below. **Resistance to chemical corrosion** - **GORLICKA** sandwich panels can be used in environments with atmosphere corrosiveness category **C1, C2, C3** according to **EN ISO 12944-2**.

TECHNICAL PARAMETERS OF PUR CORE

Thickness [mm]	Heat-transfer coefficient U [W/m²*K]	Acoustic insulation	Reaction to fire	Fire resistance	NRO
	PN-EN 14509	**EN ISO 717-1**	**PN-EN 13501-1**	**PN-EN 13501-2**	**PN-B-02867:2013:06**
40	0,58	R_w = 23 dB R_{a1} = 21 dB R_{a2} = 19 dB	B-s2, d0	NPD	„NRO"
60	0,38				
80	0,28			E15, Conditions by classification	
100	0,23				

TECHNICAL PARAMETERS OF PIR CORE

Thickness [mm]	Heat-transfer coefficient U [W/m²*K]	Acoustic insulation	Reaction to fire	Fire resistance	NRO
	PN-EN 14509	**EN ISO 717-1**	**PN-EN 13501-1**	**PN-EN 13501-2**	**PN-B-02867:2013:06**
40	0,58	R_w = 23 dB R_{a1} = 21 dB R_{a2} = 20 dB	B-s2, d0	NPD	„NRO"
60	0,38		B-s1, d0		
80	0,28				
100	0,23				

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Production programme of panels **Gorlicka S / Gorlicka S GS-PIR:**

- Panel thicknesses
- Profiles of outer and inner facing

Scale
1:10
1:1

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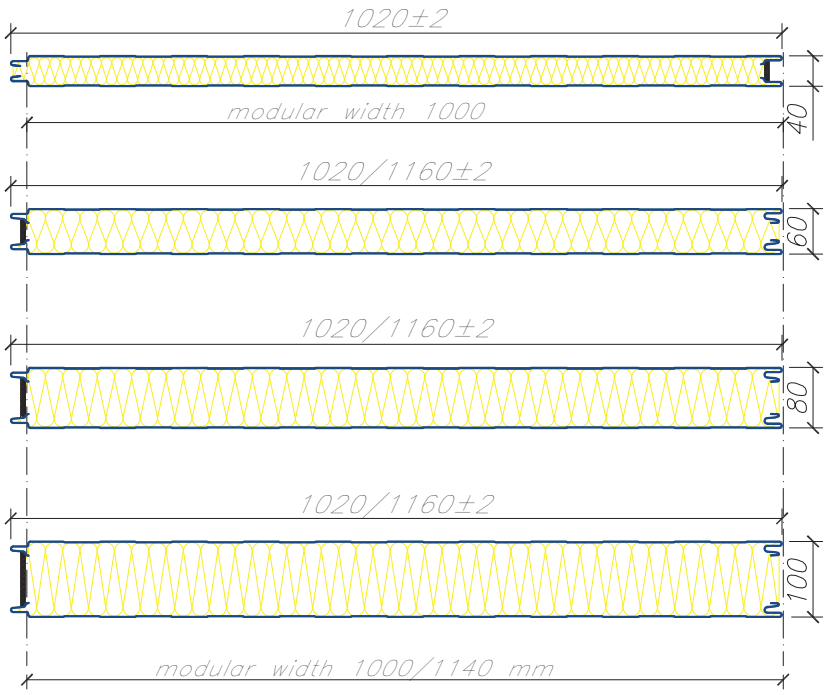
Panel thickness



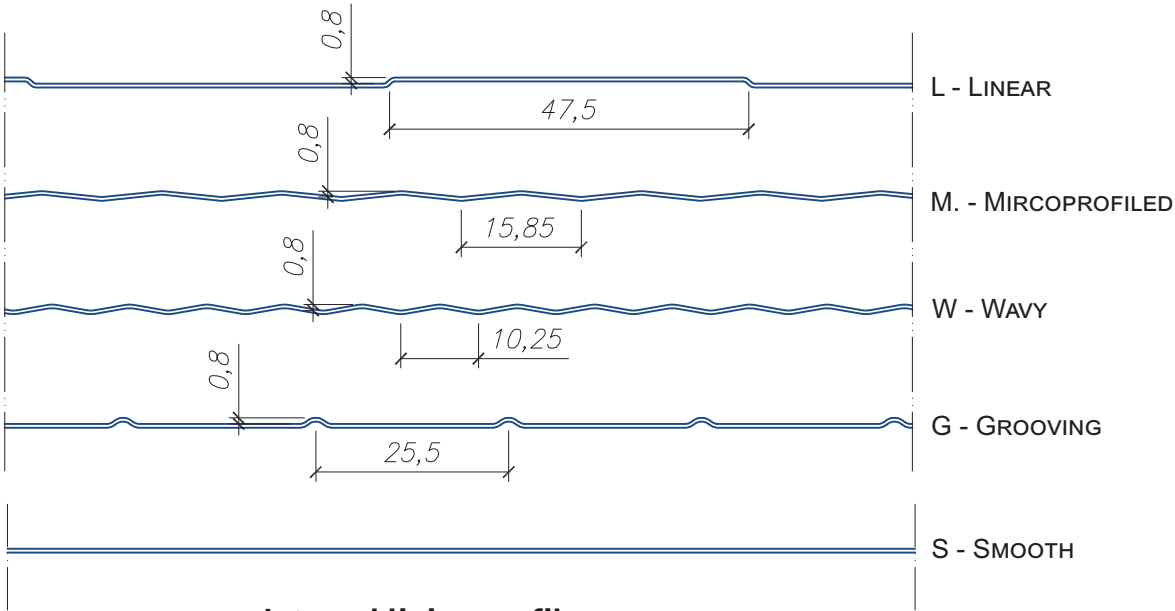
40 mm

60 mm

80 mm

100 mm

External lining profiles



L - Linear

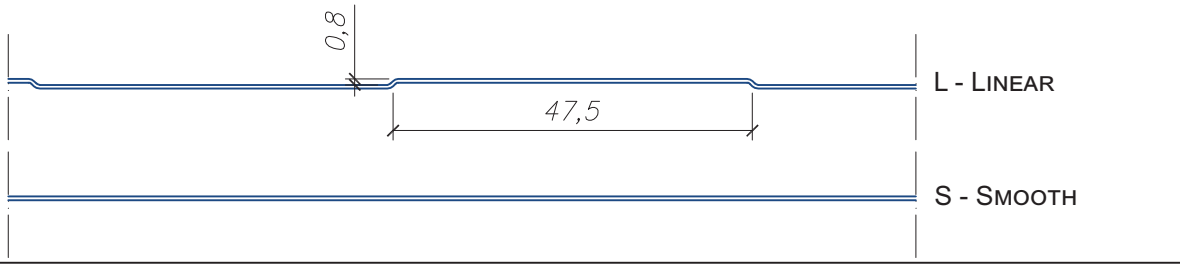
M. - Mircoprofiled

W - Wavy

G - Grooving

S - Smooth

Internal lining profiles



L - Linear

S - Smooth

LOAD SPAN TABLES FOR GORLICKA S

Table of allowed loads for **GORLICKA S** sandwich panel with **0.5 mm** facing in bright colours, mounted as a single-span element, in direction to and from support.

Panel thickness	The load due to:	The maximum load [kN/m2] 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
40	SGN (q_d)	4,232	2,908	1,845	1,274	0,932	0,711	0,560	0,453	0,373	0,313	0,266
	SGU (q_k)	3,063	2,281	1,793	1,112	0,577	0,261	0,077	-	-	-	-
60	SGN (q_d)	4,232	3,154	2,511	1,920	1,405	1,072	0,845	0,683	0,563	0,472	0,402
	SGU (q_k)	3,369	2,509	1,999	1,661	1,421	1,204	0,859	0,551	0,337	0,193	0,093
80	SGN (q_d)	4,232	3,152	2,511	2,086	1,785	1,559	1,370	1,107	0,913	0,766	0,652
	SGU (q_k	3,369	2,509	1,999	1,661	1,421	1,241	1,102	0,991	0,900	0,699	0,499
100	SGN (q_d)	4,232	3,152	2,511	2,086	1,785	1,559	1,384	1,245	1,130	0,959	0,816
	SGU (q_k)	3,369	2,509	1,999	1,661	1,421	1,241	1,102	0,991	0,900	0,825	0,761

Table of allowed loads for **GORLICKA S** sandwich panel with **0.5 mm** facing in bright colours, mounted as a multi-span element, in direction to and from support.

Panel thickness	The load due to:	The maximum load [kN/m2] 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
40	SGN (q_d)	2,562	1,878	1,501	1,111	0,777	0,569	0,435	0,344	0,279	0,231	0,195
	SGU (q_k)	2,063	1,533	1,223	1,018	0,873	0,764	0,649	0,519	0,402	0,367	0,300
60	SGN (q_d)	2,483	1,845	1,475	1,231	1,057	0,913	0,692	0,542	0,437	0,360	0,302
	SGU (q_k)	2,040	1,513	1,207	1,005	0,862	0,755	0,672	0,606	0,551	0,506	0,458
80	SGN (q_d)	2,452	1,819	1,451	1,212	1,042	0,915	0,816	0,736	0,671	0,601	0,506
	SGU (q_k)	2,012	1,495	1,192	0,993	0,853	0,747	0,666	0,600	0,546	0,502	0,464
100	SGN (q_d)	2,426	1,792	1,430	1,194	1,028	0,903	0,806	0,728	0,664	0,610	0,564
	SGU (q_k)	2,006	1,480	1,178	0,982	0,843	0,740	0,659	0,595	0,542	0,498	0,460

Load tables are prepared according to **PN-EN 14 509** for panels with PUR core, linings in bright colors and for internal temperature **T = 20°C**. Deflection condition was adopted to **L/100**. In the case of different sheet thickness, temperature, mounting or dark colors lining it is necessary to perform separate calculations.
Minimum width of the support - **40 mm** and **60 mm** (indirect). Number of connectors - **4** on the intermediate support, **3** on the extreme support. A detailed list of loads is available on the website.

PACKING AND SHIPPING

GORLICKA 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]	**40**	**60**	**80**	**100**
Maximum number of panels in one batch	25	19	14	11

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Selected details of cladding made of GORLICKA S / GORLICKA S GS-PIR sandwich panels

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Window assembly in sandwich panel – variant I – profile 36
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Window assembly in sandwich panel – variant II – profile 38
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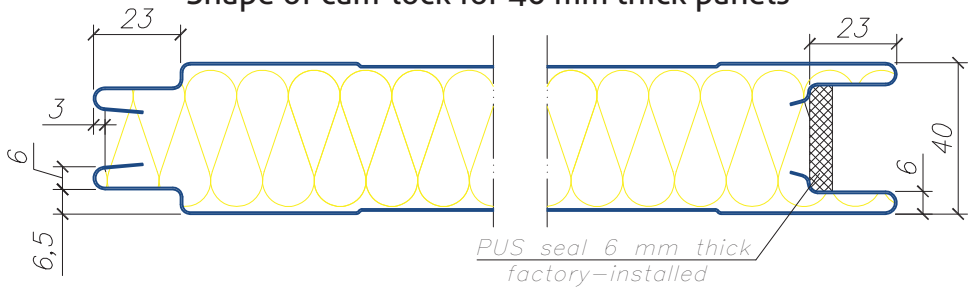
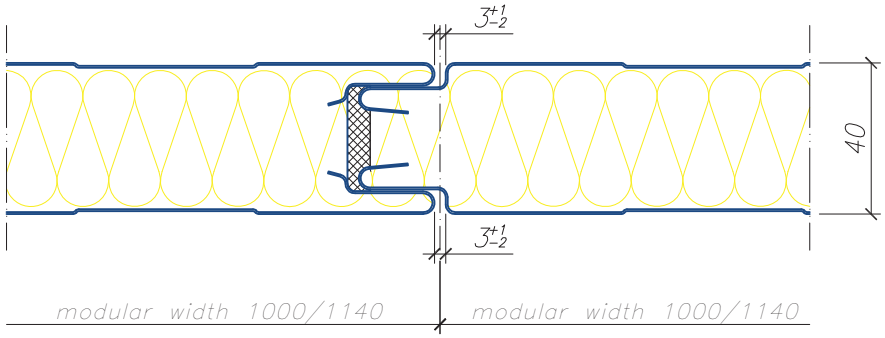
Details of cam-lock and 40 mm thick panels' connection
Details of cam-lock and 60, 80, 100 mm thick panels' connection

Scale
1:2

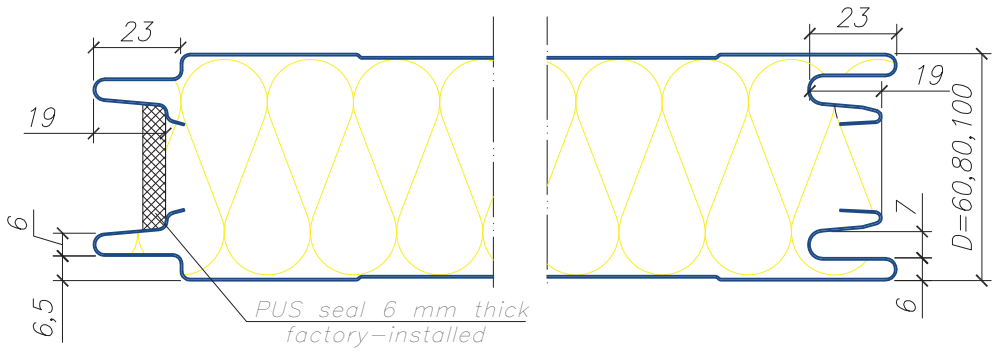
Shape of cam-lock for 40 mm thick panels



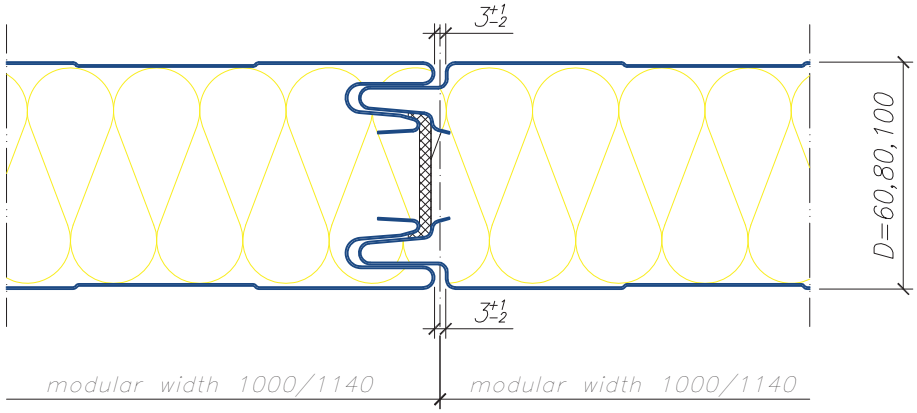
Detail of 40 mm thick panels connection



Shape of cam-lock for 60, 80 and 100 mm thick panels



Detail of 60, 80 and 100 mm thick panels' connection



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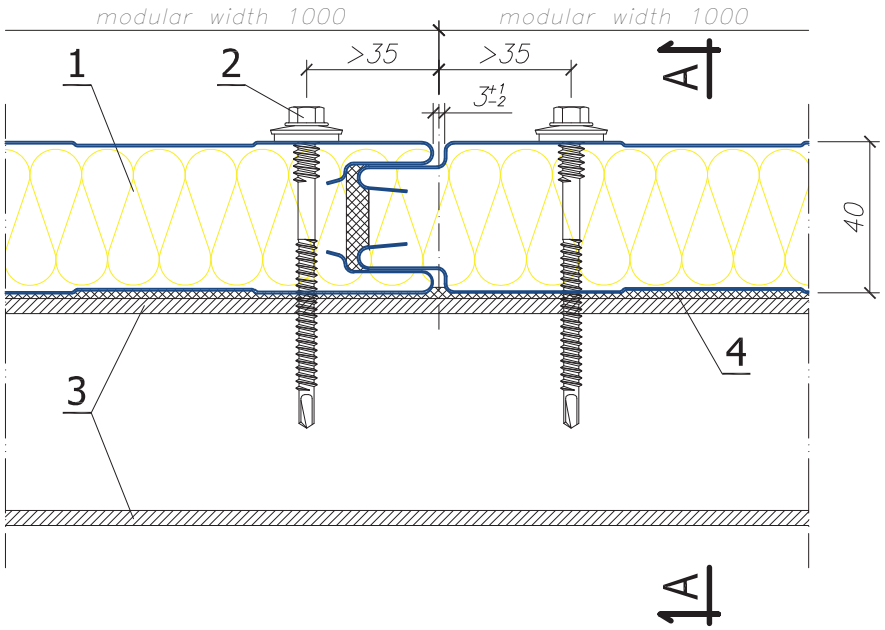
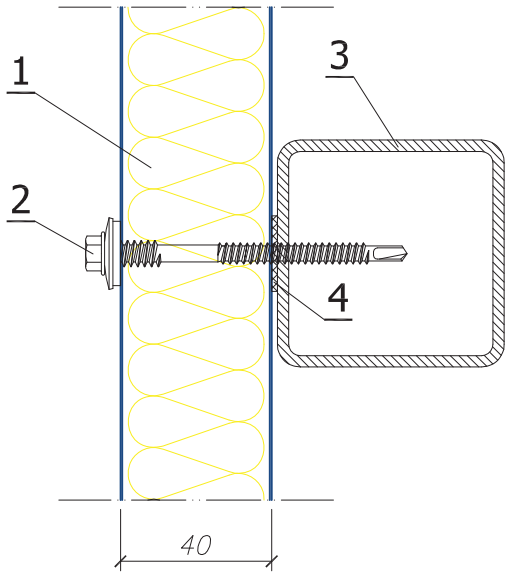
Details of 40 mm thick panels' connection



A-A cross-section

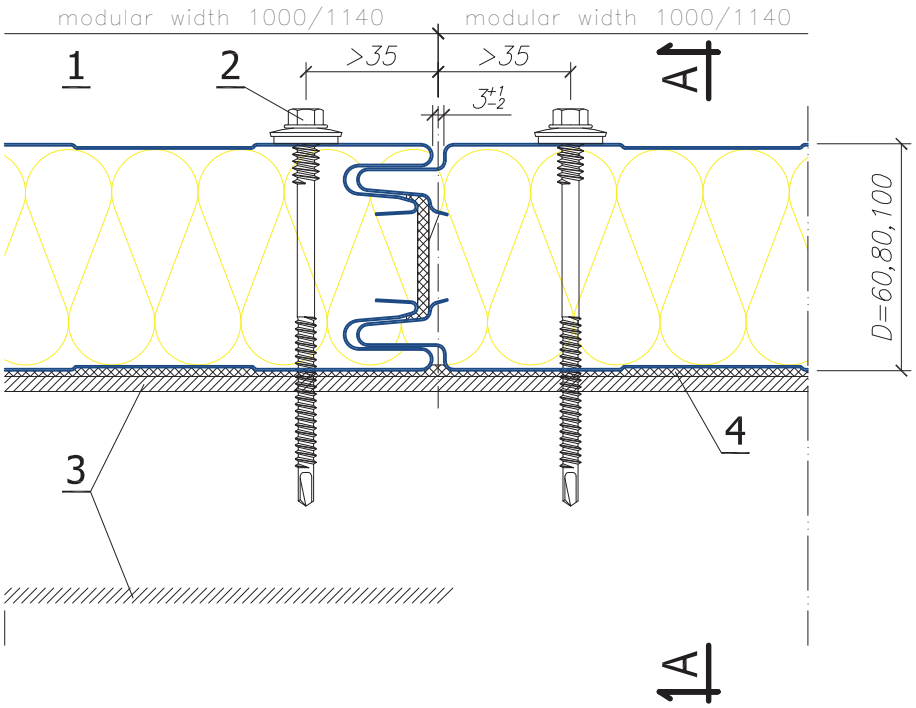


LEGEND:

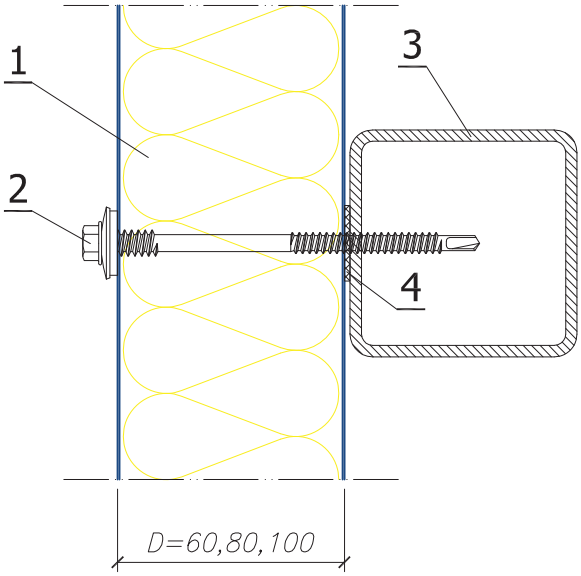
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Self-drilling connector for sandwich panels
3. Transom acc. to structure design
4. Polyethylene, self-adhesive sealing tape **(PES)**

NOTE: Every panel should be fastened to the structure with three connectors along its width

Details of 60, 80 and 100 mm thick panels' connection



A-A cross-section



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Self-drilling connector for sandwich panels
3. Transom acc. to structure design
4. Polyethylene, self-adhesive sealing tape **(PES)**

NOTE: Every panel should be fastened to the structure with three connectors along its width

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VERTICAL ARRANGEMENT of panels
Details of panel connection to grade beam
Variant I

Scale
1:3

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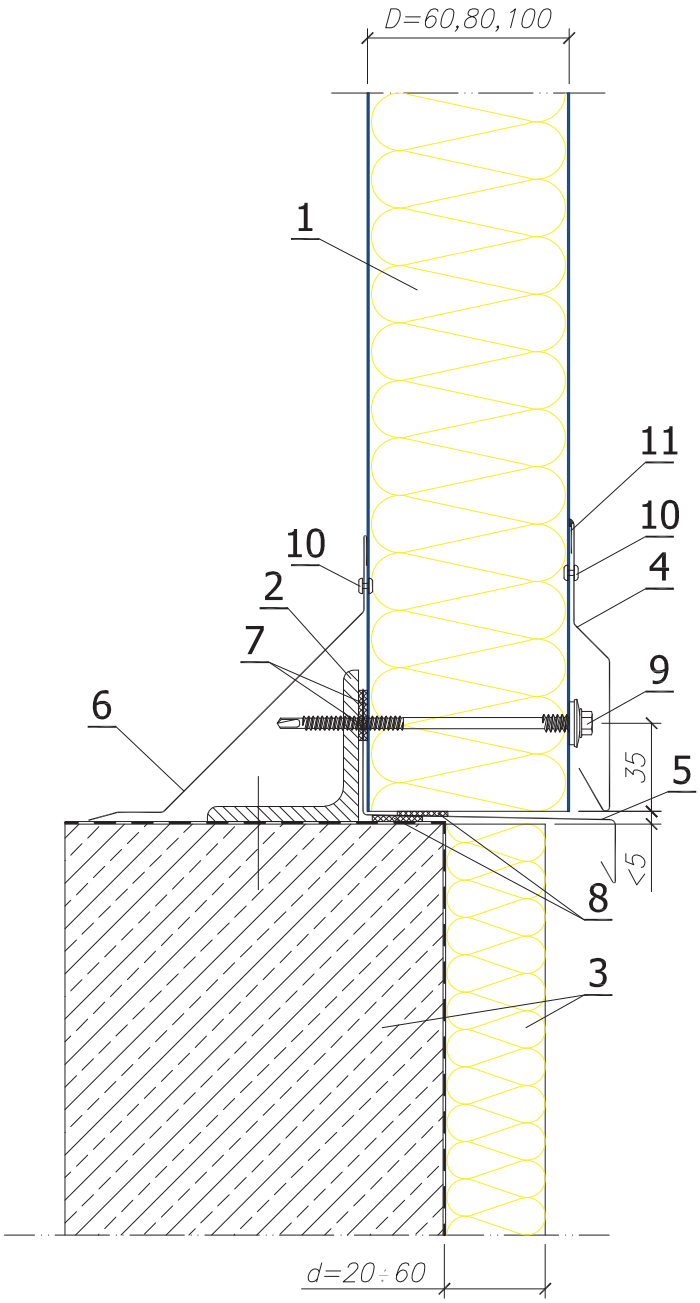
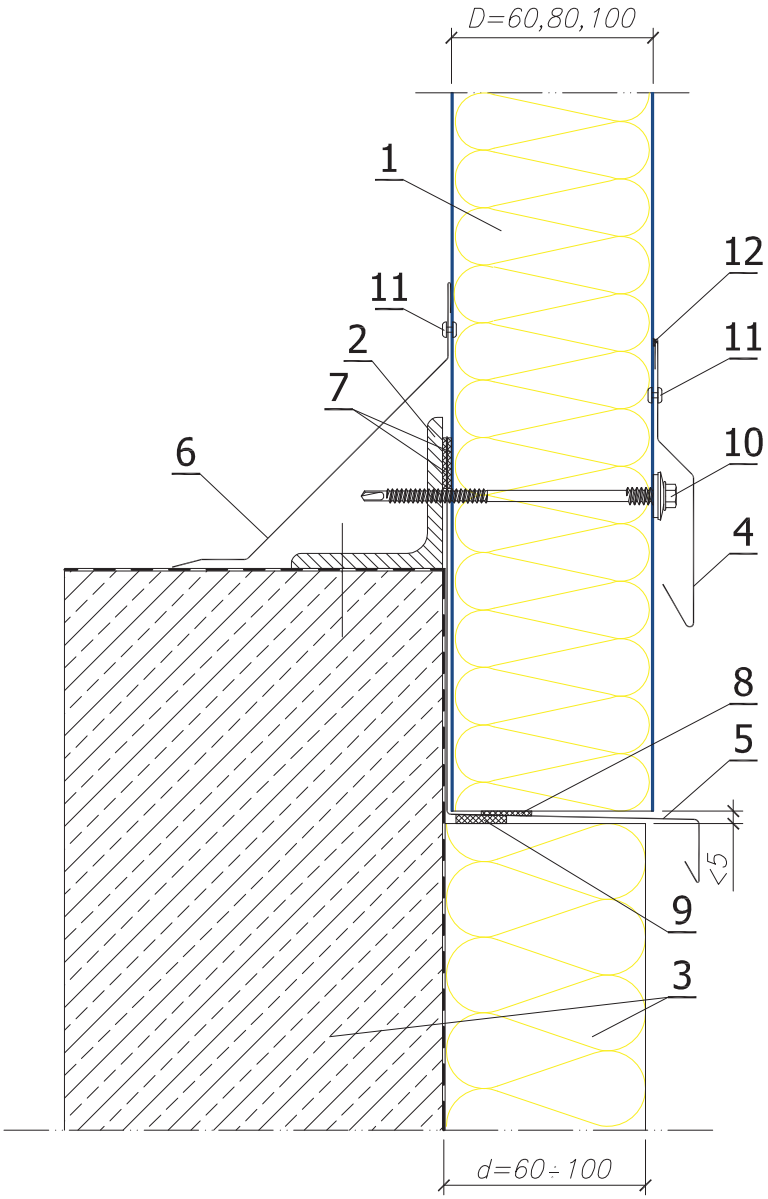


LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel section acc. to structure design
3. Grade beam with insulation and thermal insulation acc. to detailed design
4. Drip edge **OB-10** (option)
5. Eaves **OB-13**
6. Covering flashing **OB-08**
7. Polyethylene, self-adhesive sealing tape **(PES)**
8. Impregnated polyurethane seal
9. Self-drilling connector for sandwich panels
10. Tight blind rivet **4.8 x 9.5**

VERTICAL ARRANGEMENT of panels
Details of panel connection to grade beam
Variant II

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel section acc. to structure design
3. Grade beam with insulation and thermal insulation acc. to detailed design
4. Drip edge **OB-10** (option)
5. Eaves **OB-13** (extended)
6. Covering flashing **OB-08**
7. Polyethylene, self-adhesive sealing tape **(PES)**
8. Impregnated polyurethane seal
9. Self-adhesive expanding sealing tape
10. Self-drilling connector for sandwich panels
11. Tight blind rivet **4.8 x 9.5**
12. Neutral silicone sealant

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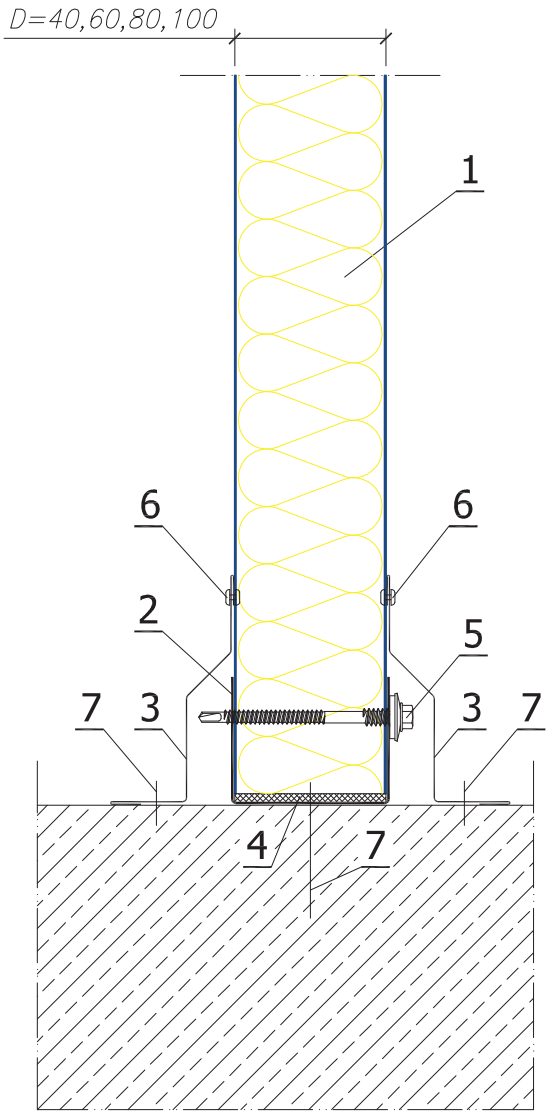
VERTICAL ARRANGEMENT of panels
Detail of panel connection to flooring

Scale
1:3

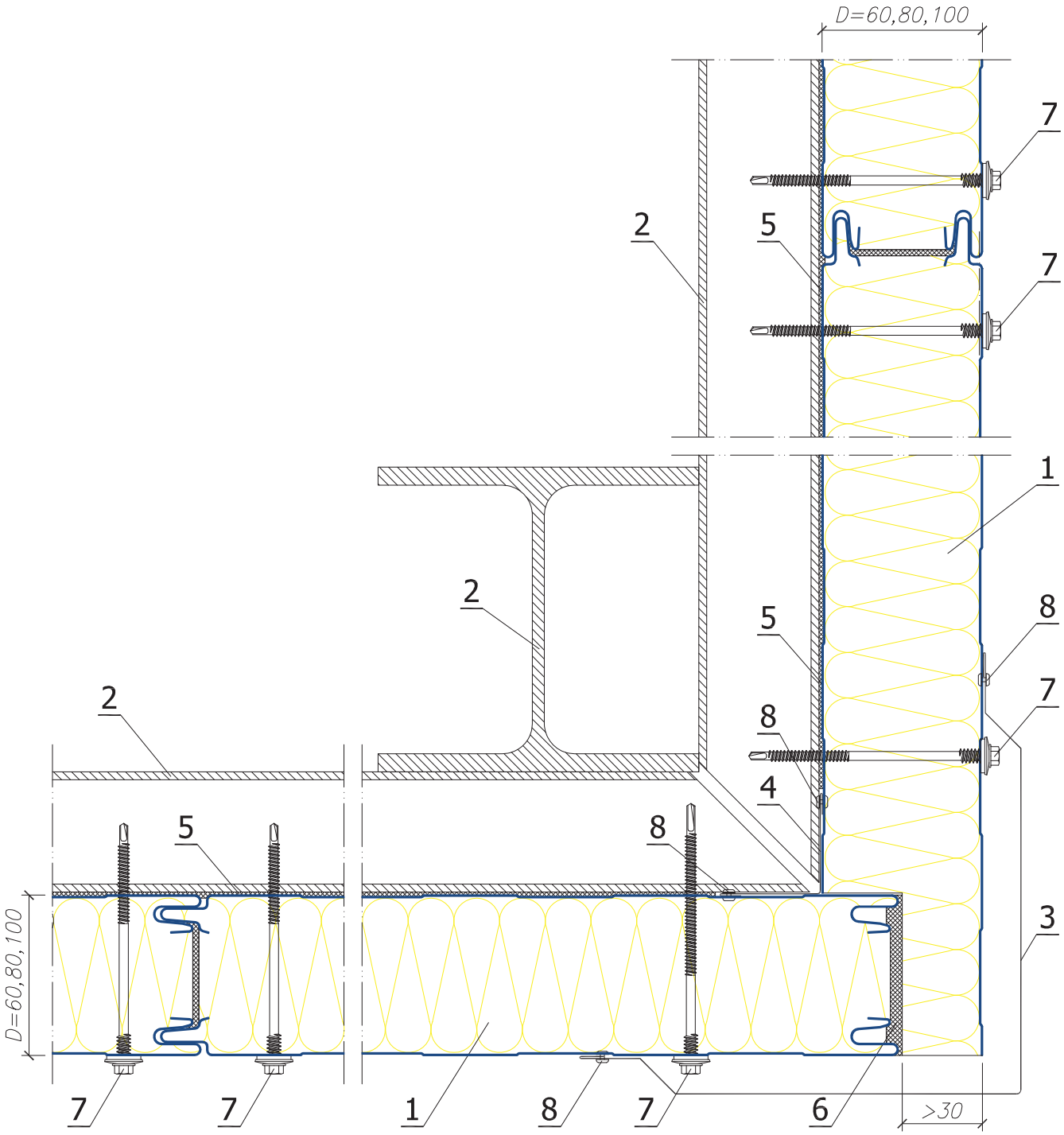
GÓR-STAL



LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Edge channel section OB-42
3. Covering flashing OB-05
4. Impregnated polyurethane seal (PURS) or caulking foam
5. Self-drilling connector for sandwich panels
6. Tight blind rivet 4.8 x 9.5
7. Steel expansion joint for fast assembly

VERTICAL ARRANGEMENT of panels
Detail of panels' connection in a corner
Variant I

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel post and transom acc. to structure design
3. Corner flashing **OB-03**
4. Corner flashing **OB-02**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Impregnated polyurethane seal **(PURS)** or caulking foam
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

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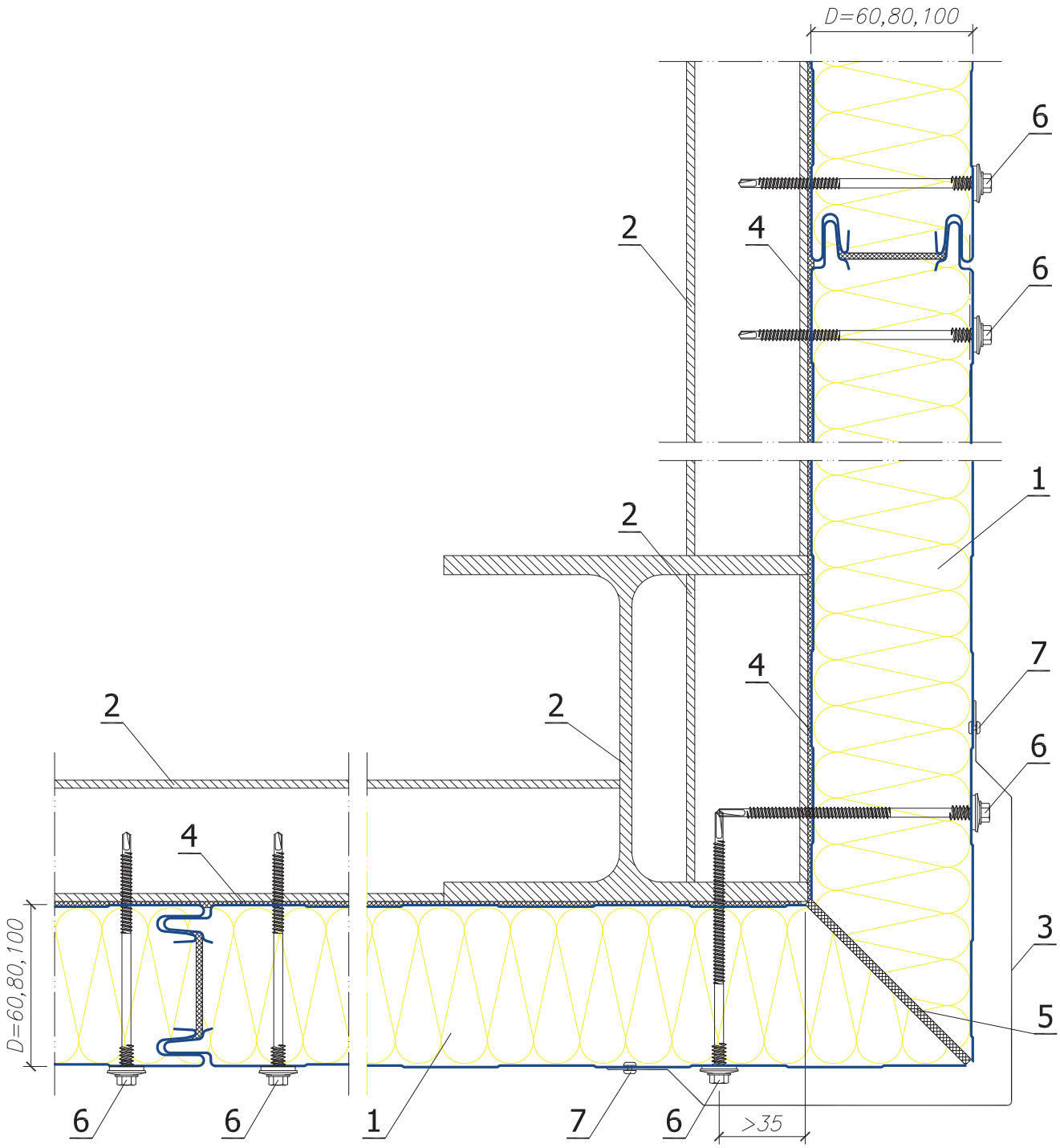
VERTICAL ARRANGEMENT of panels
Detail of panels' connection in a corne
Variant II

Scale
1:3

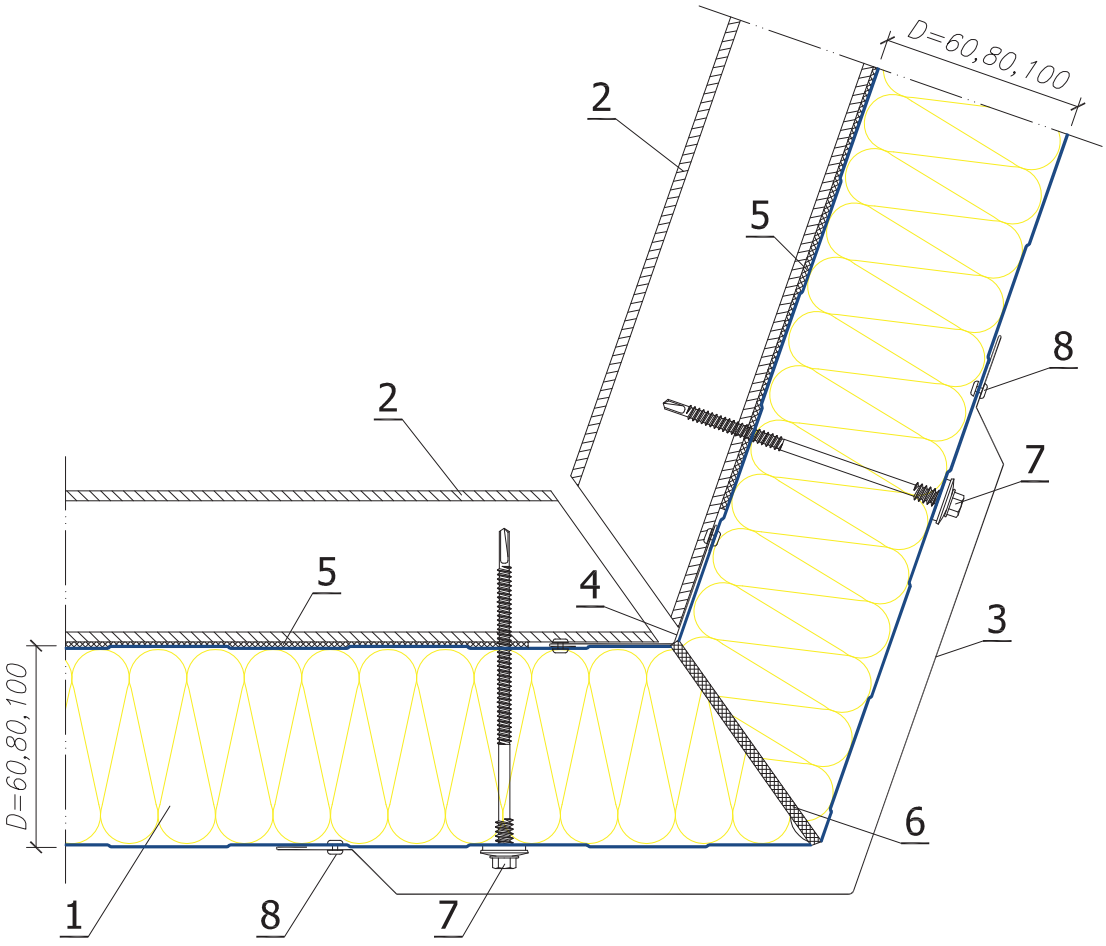
GÓR-STAL



LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel post and transom acc. to structure design
3. Corner flashing **OB-03**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Polyurethane caulking foam
6. Self-drilling connector for sandwich panels
7. Tight blind rivet **4.8 x 9.5**

VERTICAL ARRANGEMENT of panels
Detail of panels' connection in an optional angle corner

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Transom acc. to structure design
3. Corner flashing **OB-03**
4. Corner flashing **OB-02**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Polyurethane caulking foam
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

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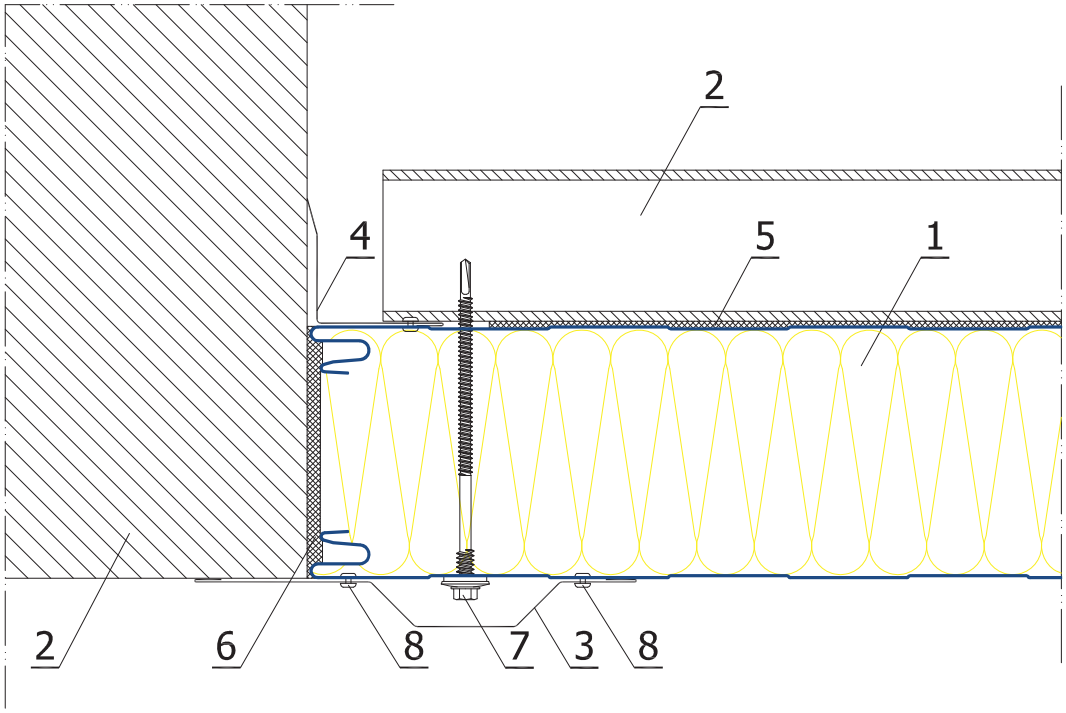
VERTICAL ARRANGEMENT of panels
Detail of panel connection to wall

Scale
1:3

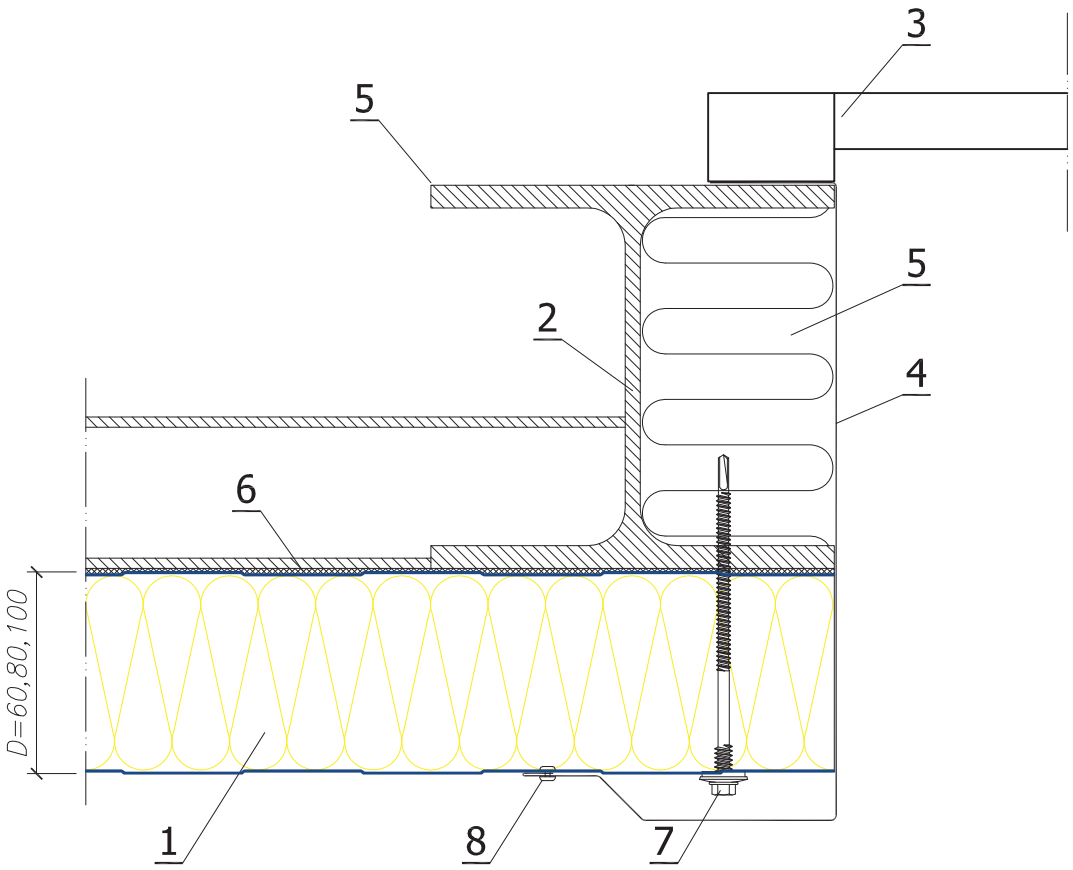
GÓR-STAL



LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Wall and transom acc. to structure design
3. Covering flashing **OB-19**
4. Inner corner flashing **OB-07**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

VERTICAL ARRANGEMENT of panels
Detail of roll-up door post

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel post and transom acc. to structure design
3. Industrial door
4. Door flashing **OB-21**
5. Thermal insulation on the fastening
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

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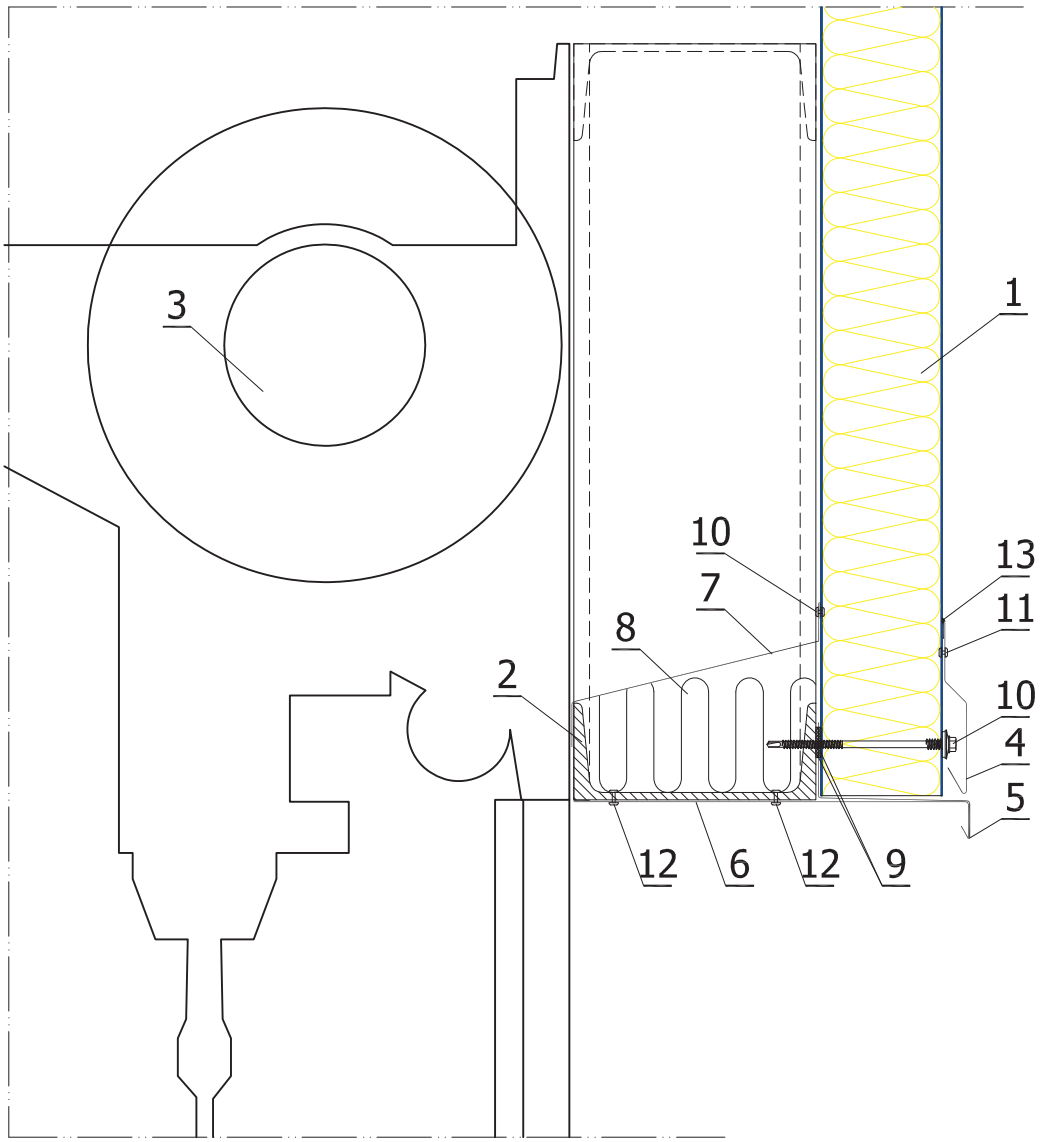
VERTICAL ARRANGEMENT of panels
Detail of roll-up door lintel

Scale
1:5

GÓR-STAL

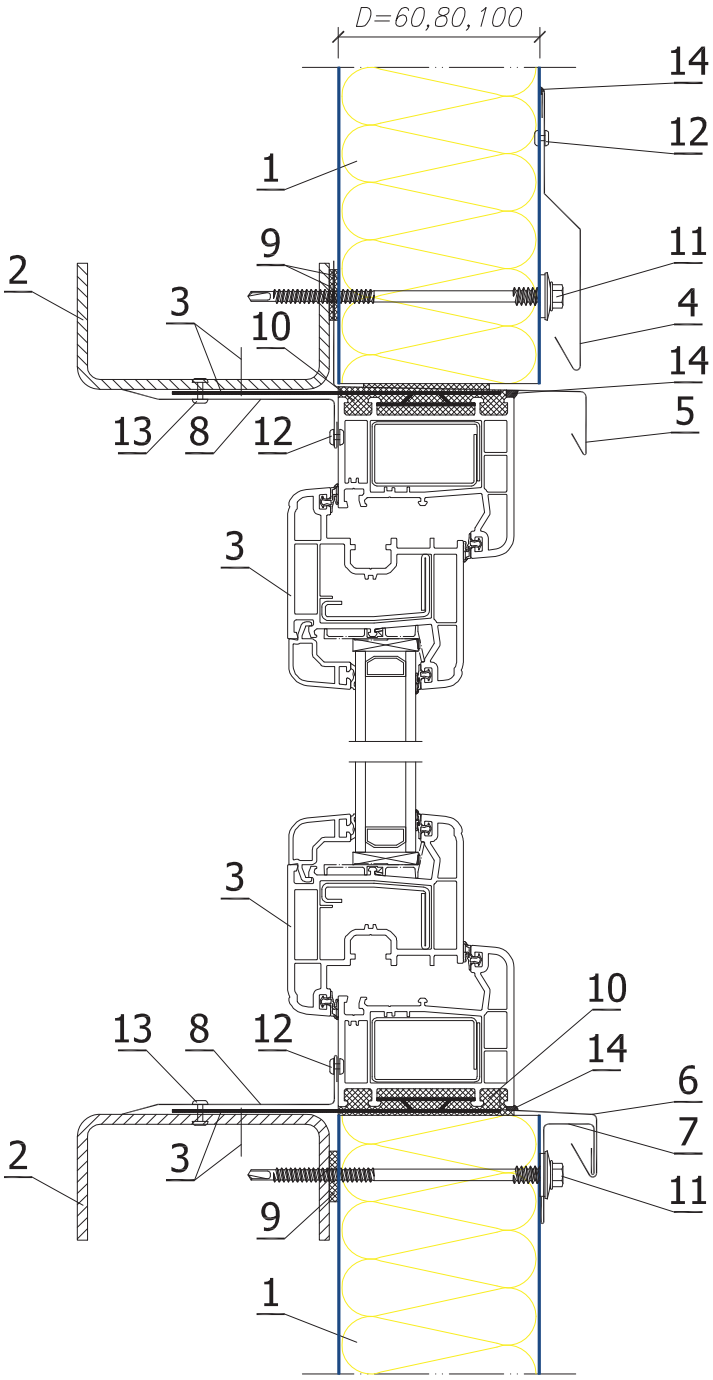


LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Transom acc. to structure design
3. Industrial door
4. Drip edge **OB-10**
5. Drip edge **OB-13**
6. Covering flashing **OB-20**
7. Individual covering flashing
8. Thermal insulation on the fastening
9. Polyethylene, self-adhesive sealing tape **(PES)**
10. Self-drilling connector for sandwich panels
11. Tight blind rivet **4.8 x 9.5**
12. Blind rivet **4.8 x 15.1** (for the structure)
13. Neutral silicone sealant

VERTICAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant I – profile

Scale
1:3



LEGEND:
1.**GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Transom acc. to structure design
3. PVC or aluminium window with a holder and connector
4. Drip edge **OB-10**
5. Drip edge **OB-13**
6. Cill **OB-37**
7. Rigid flashing **OB-16**
8. Individual inner corner
9. Polyethylene, self-adhesive sealing tape **(PES)**
10. Polyethylene caulking foam
11. Self-drilling connector for sandwich panels
12. Tight blind rivet **4.8 x 9.5**
13. Blind rivet **4.8 x 15.1** (for the structure)
14. Neutral silicone sealant

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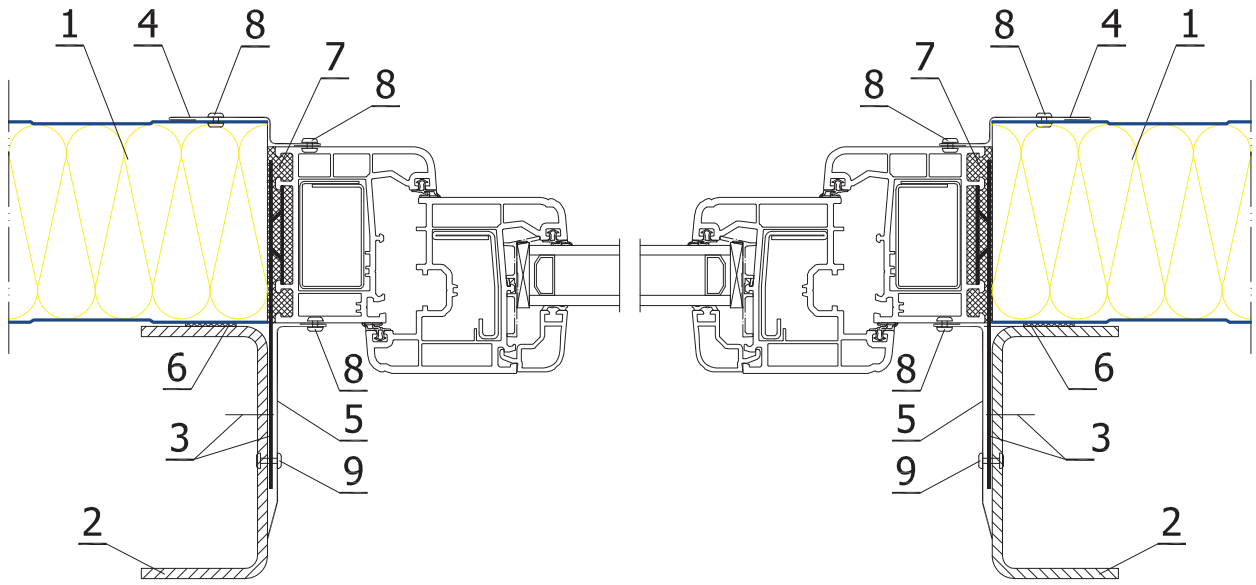
VERTICAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant I – cross-section

Scale
1:3

GÓR-STAL

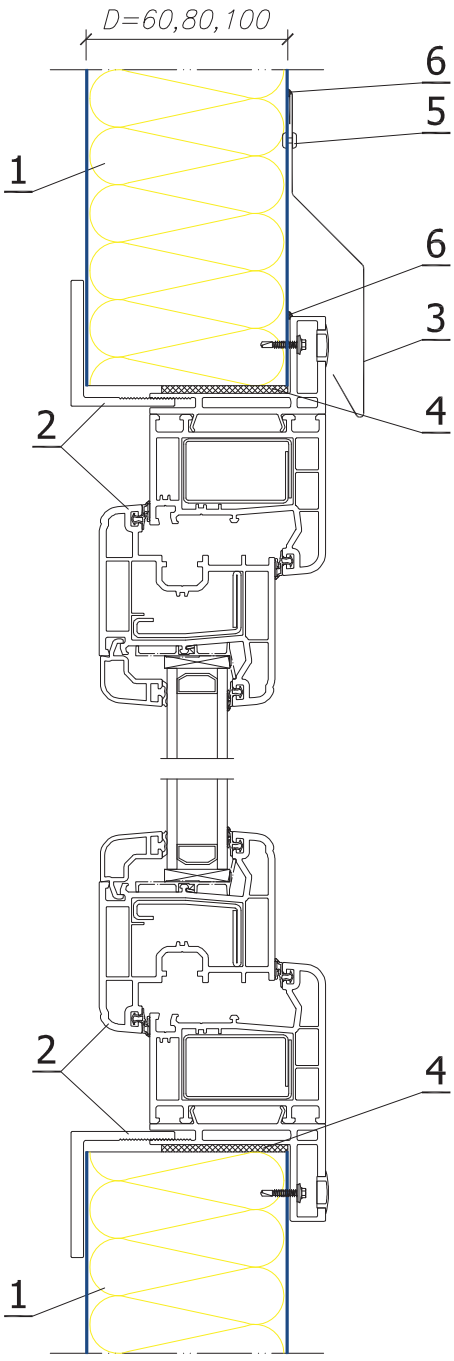


LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Transom acc. to structure design
3. PVC or aluminium window with a holder and connector
4. Individual covering flashing
5. Individual inner corner
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Polyethylene caulking foam
8. Tight blind rivet **4.8 x 9.5**
9. Blind rivet **4.8 x 15.1** (for the structure)

VERTICAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant II – profile

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. PVC or aluminium window with a fastening profile
3. Drip edge **OB-11** (option)
4. Impregnated polyurethane seal **(PURS)** or caulking foam
5. Tight blind rivet **4.8 x 9.5**
6. Neutral silicone sealant

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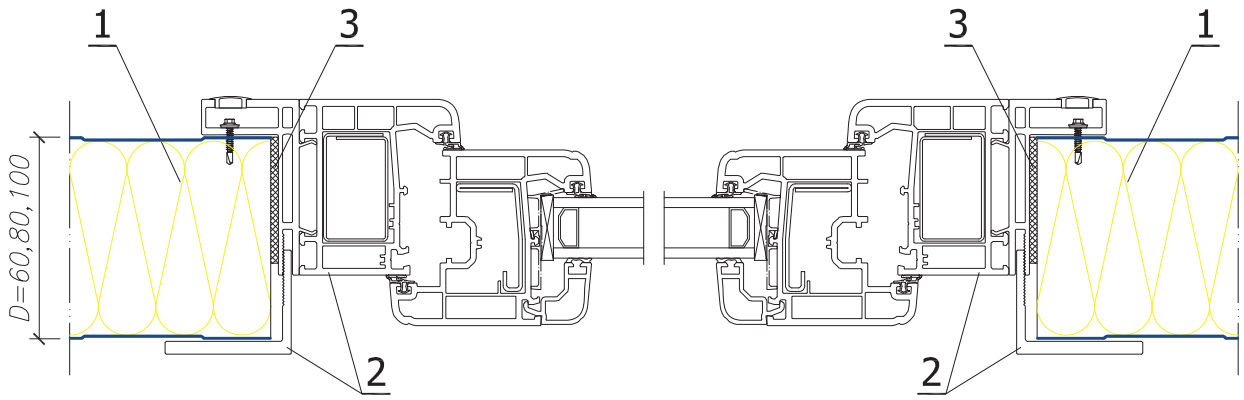
VERTICAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant II – cross-section

Scale
1:3

GÓR-STAL

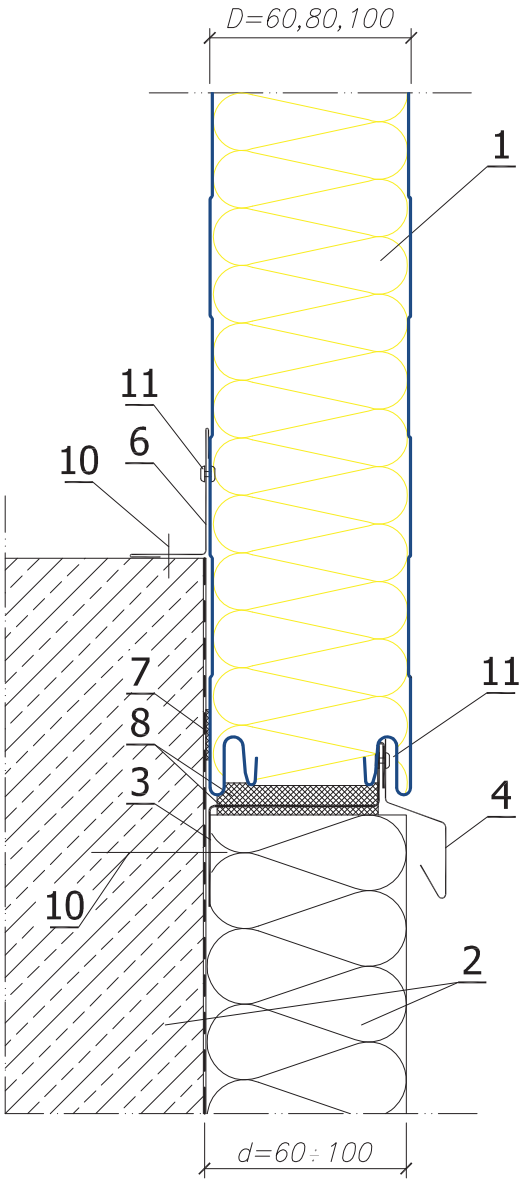


LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. PVC or aluminium window with a fastening profile
3. Impregnated polyurethane seal **(PURS)** or caulking foam

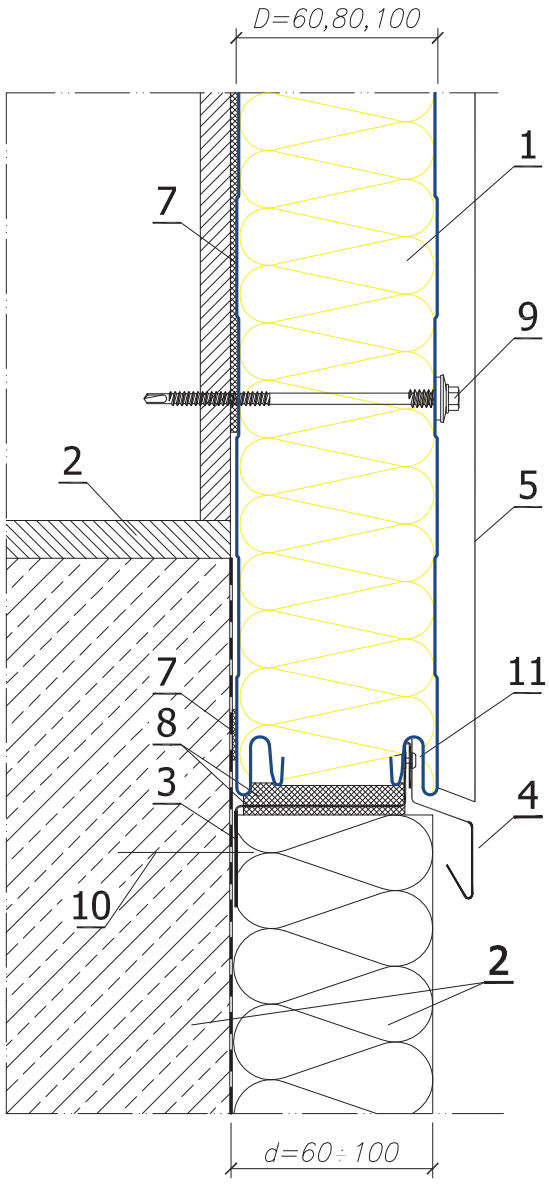
HORIZONTAL ARRANGEMENT of panels
Details of panel connection to grade beam
Variant I

Scale
1:3

In the span



On the support



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
3. Edge Z-bar **OB-38**
4. Drip edge **OB-14**
5. Covering flashing for panel junction
6. Corner flashing **OB-06**
7. Polyethylene, self-adhesive sealing tape **(PES)**
8. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
9. Self-drilling connector for sandwich panels
10. Steel expansion joint for quick assembly
11. Tight blind rivet **4.8 x 9.5**

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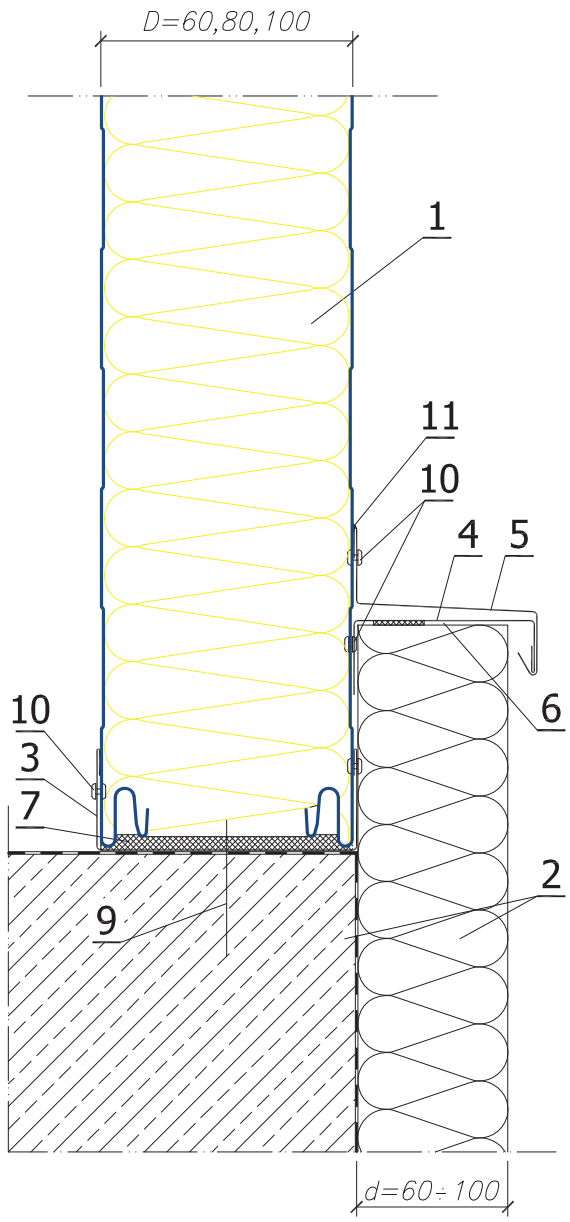
HORIZONTAL ARRANGEMENT of panels
Details of panel connection to grade beam
Variant II

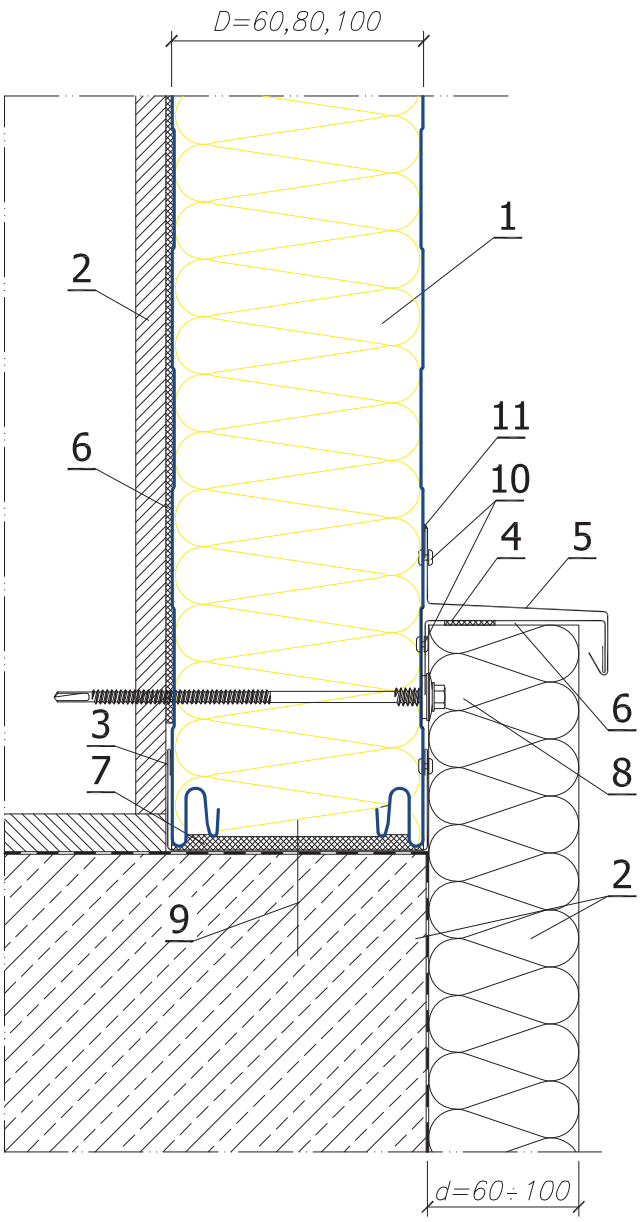
Scale
1:3

GÓR-STAL

In the span



On the support

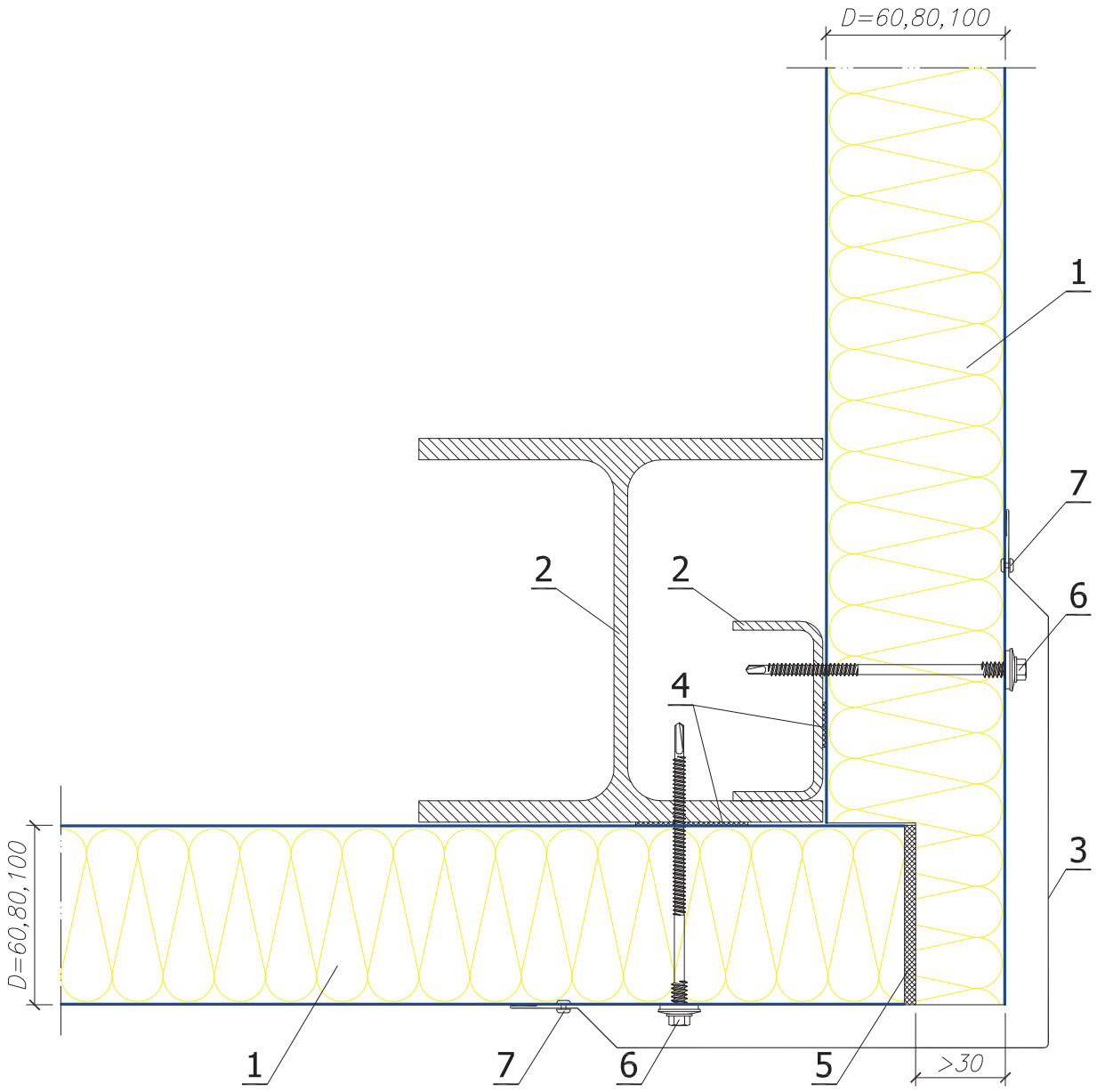


LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
3. Edge channel section **OB-36**
4. Drip edge **OB-15**
5. Rigid flashing **OB-15a**
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
8. Self-drilling connector for sandwich panels
9. Steel expansion joint for quick assembly
10. Tight blind rivet **4.8 x 9.5**
11. Neutral silicone sealant

HORIZONTAL ARRANGEMENT of panels
Detail of panels' connection in a corner

Scale
1:3



LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel post acc. to structure design
3. Corner flashing **OB-03**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Impregnated polyurethane seal **(PURS)** or caulking foam
6. Self-drilling connector for sandwich panels
7. Tight blind rivet **4.8 x 9.5**

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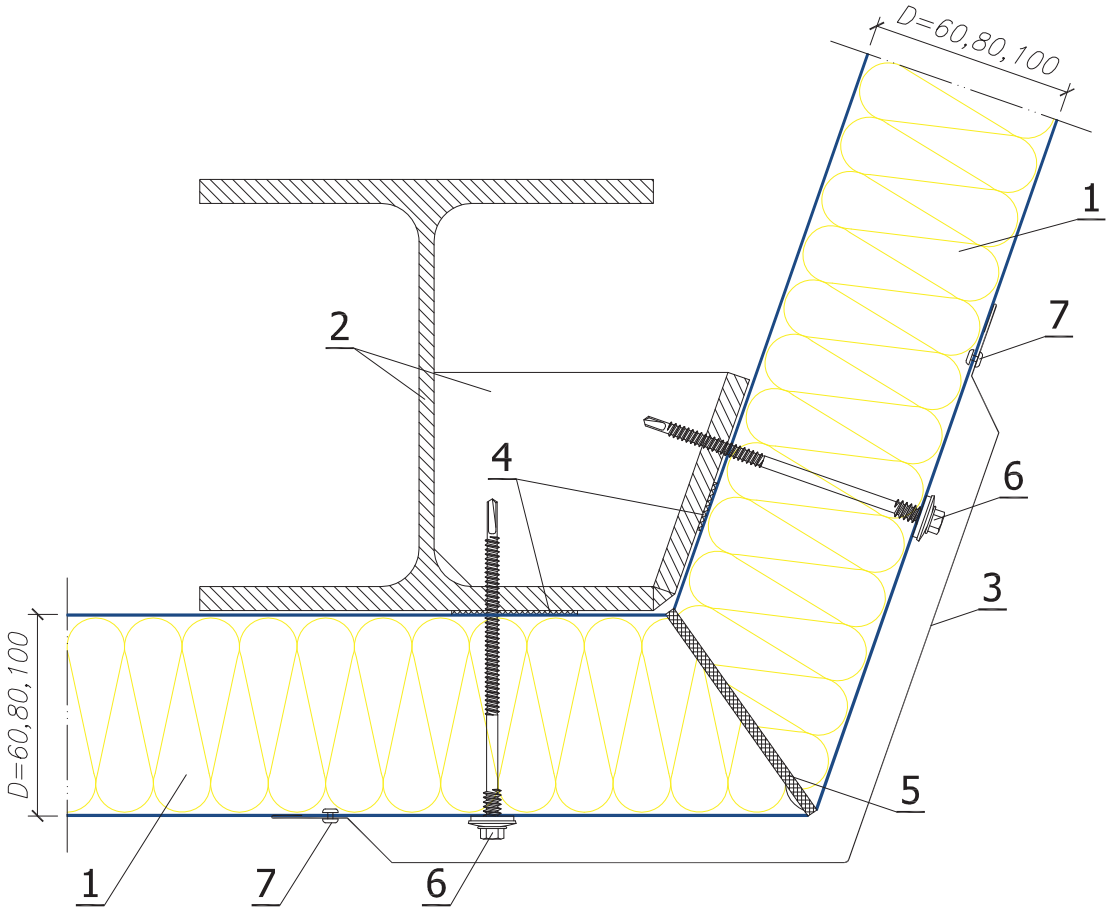
HORIZONTAL ARRANGEMENT of panels
Detail of panels' connection in an optional angle corner

Scale
1:3

GÓR-STAL

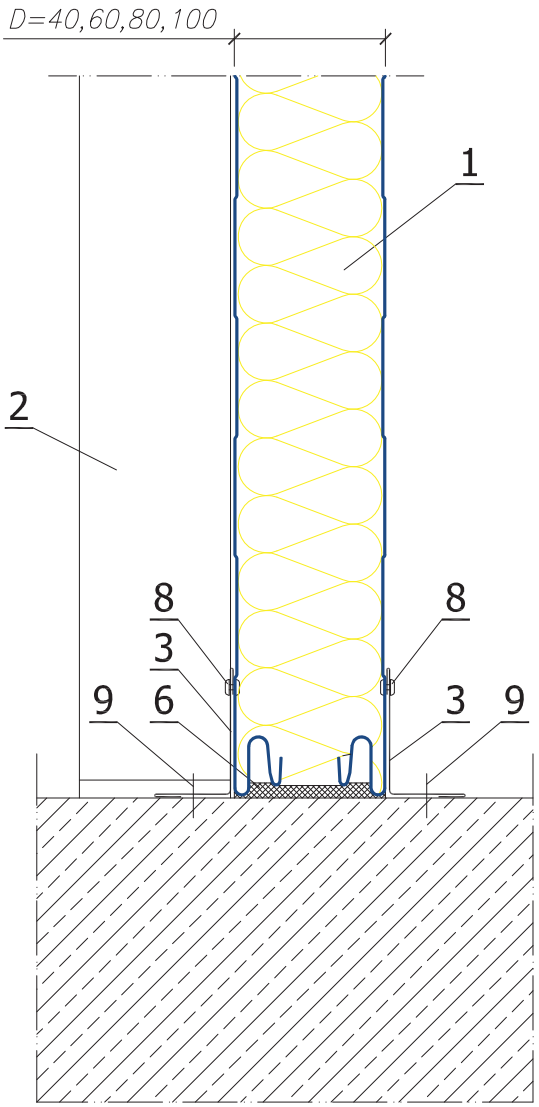


LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel post acc. to structure design
3. Corner flashing **OB-03**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Polyurethane caulking foam
6. Self-drilling connector for sandwich panels
7. Tight blind rivet **4.8 x 9.5**

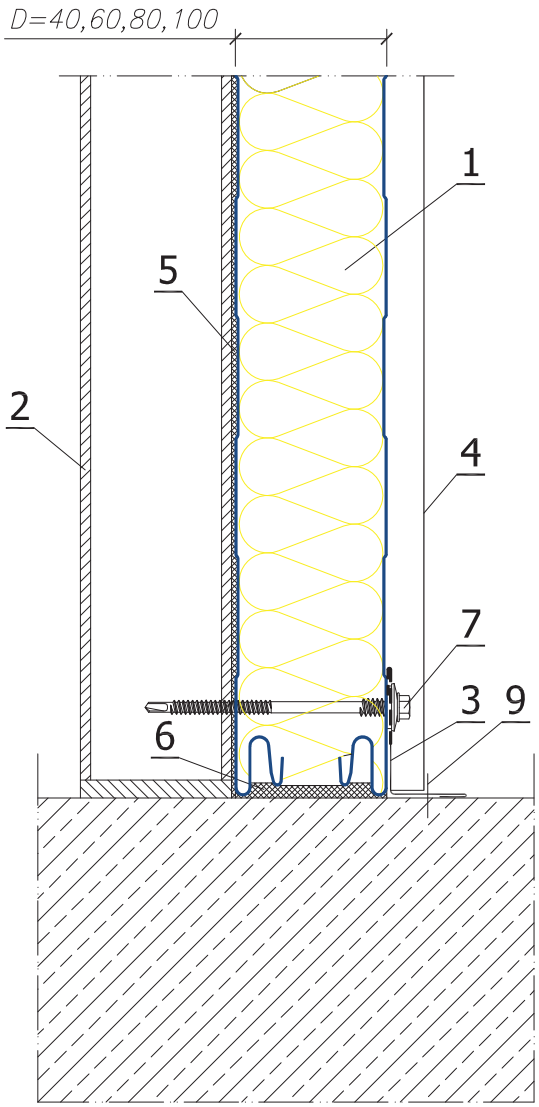
HORIZONTAL ARRANGEMENT of panels
Detail of panels connection to flooring

Scale
1:3

In the span



On the support



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel post acc. to structure design
3. Corner flashing **OB-06**
4. Covering flashing for panel junction
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**
9. Steel expansion joint for quick assembly

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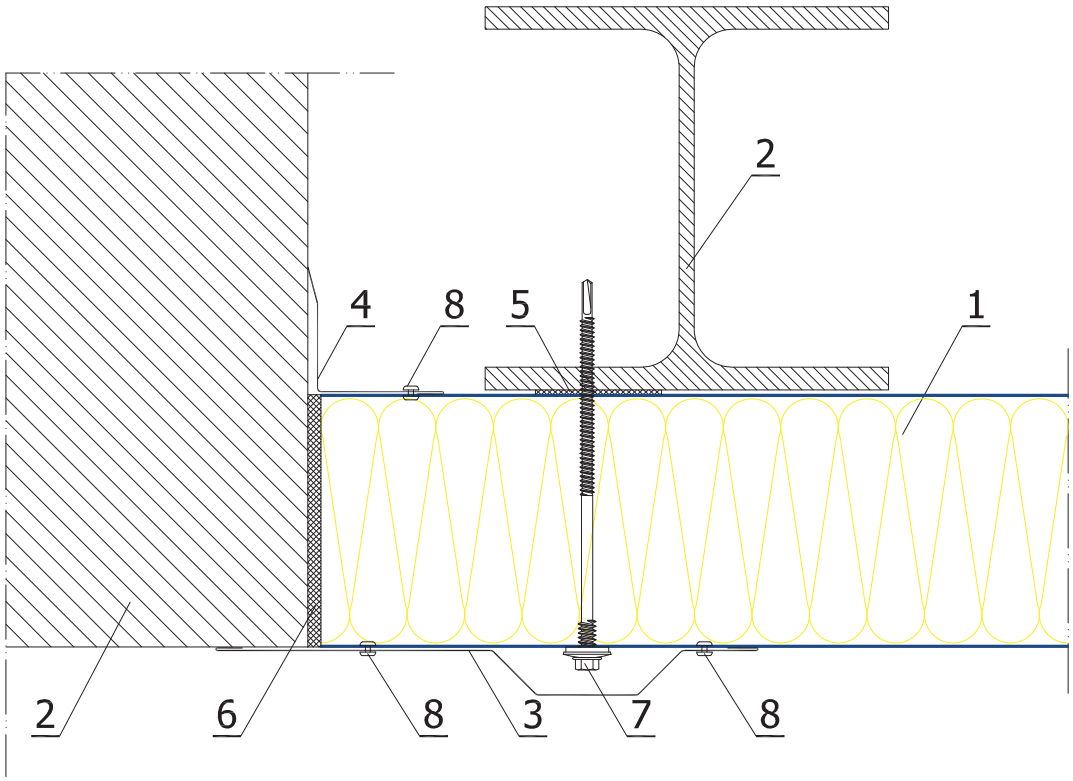
Poziomy układ płyt
Szczegół połączenia płyty z murem

Scale
1:3

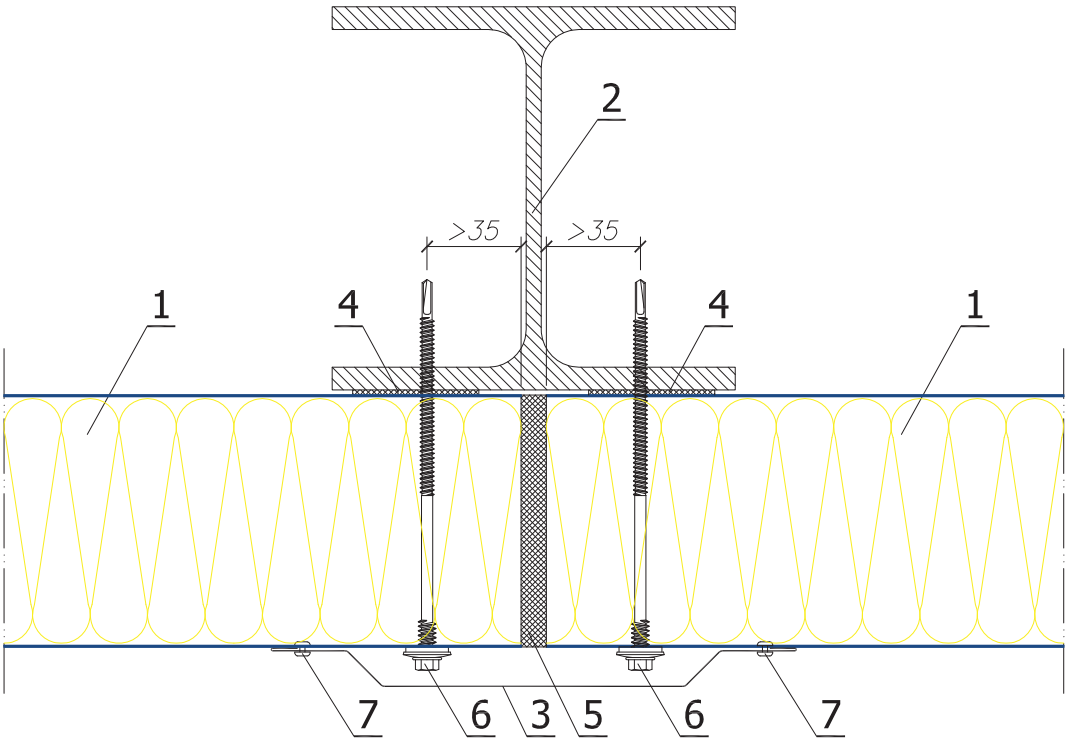
GÓR-STAL



LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Wall and post acc. to structure design
3. Covering flashing **OB-19**
4. Inner corner flashing **OB-07**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to edge support

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Post acc. to structure design
3. Covering flashing **OB-17**
4. Polyethylene, self-adhesive sealing tape **(PE)**
5. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
6. Self-drilling connector for sandwich panels
7. Tight blind rivet **4.8 x 9.5**

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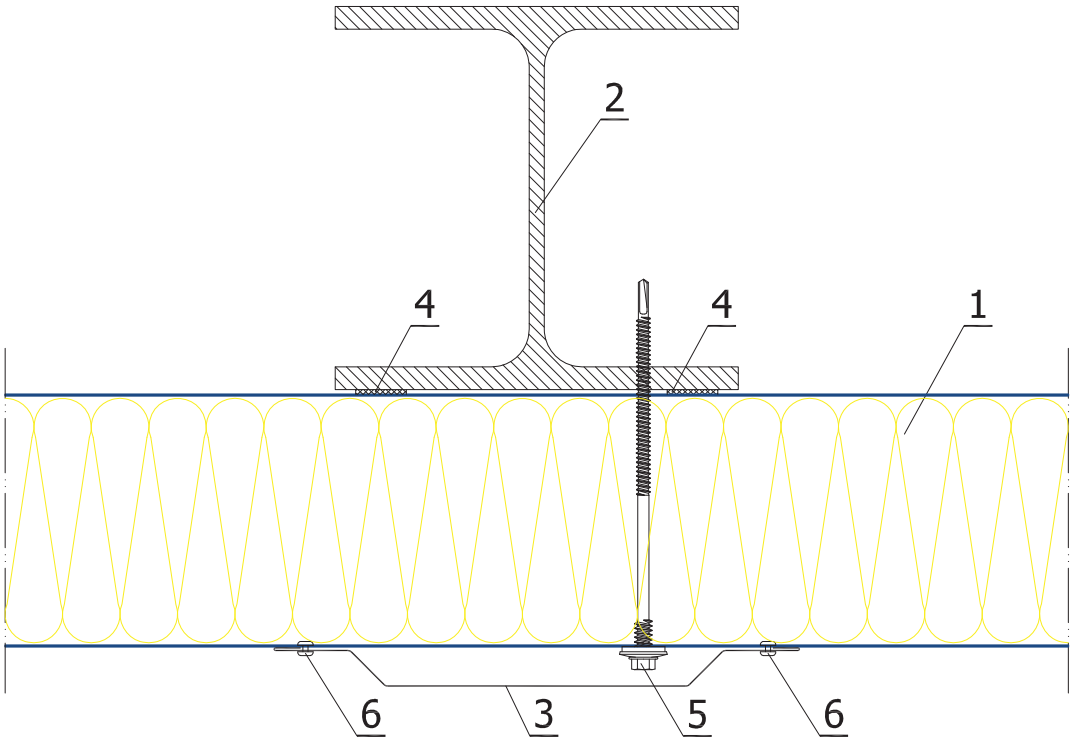
HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to intermediate support

Scale
1:3

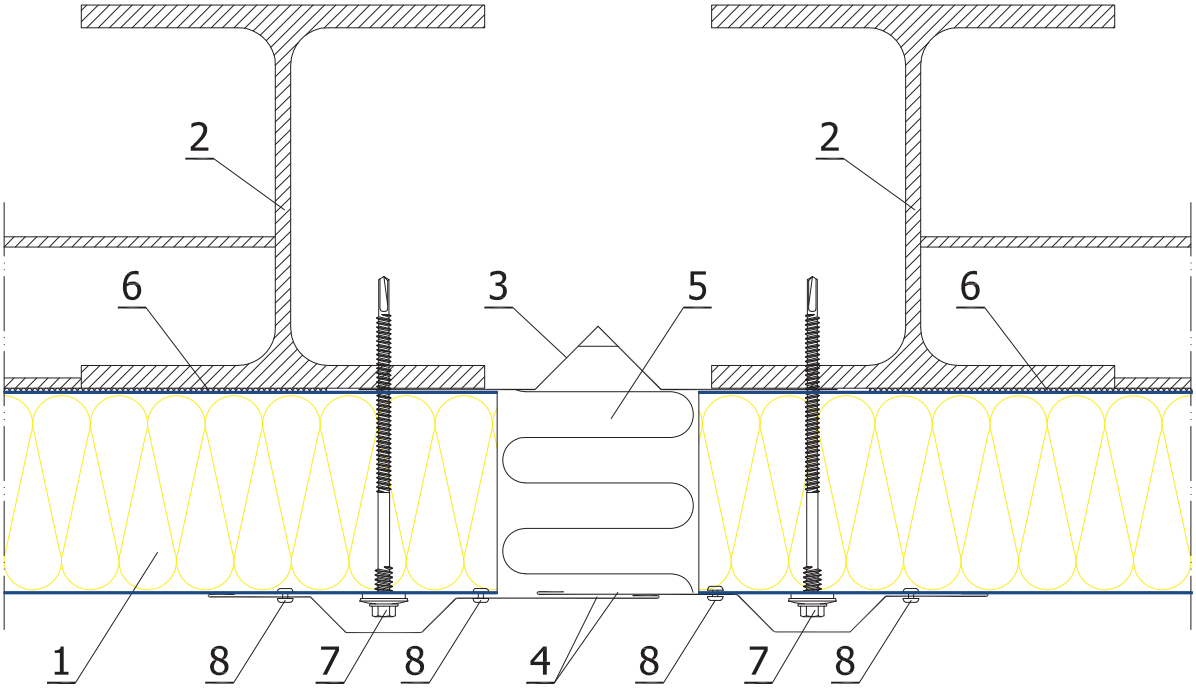
GÓR-STAL



LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Post acc. to structure design
3. Covering flashing **OB-17**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Self-drilling connector for sandwich panels
6. Tight blind rivet **4.8 x 9.5**

HORIZONTAL ARRANGEMENT of panels
Detail of building expansion joint

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel posts and transom acc. to structure design
3. Individual expansion joint flashing
4. Covering flashing **OB-09**
5. Thermal insulation on the fastening
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

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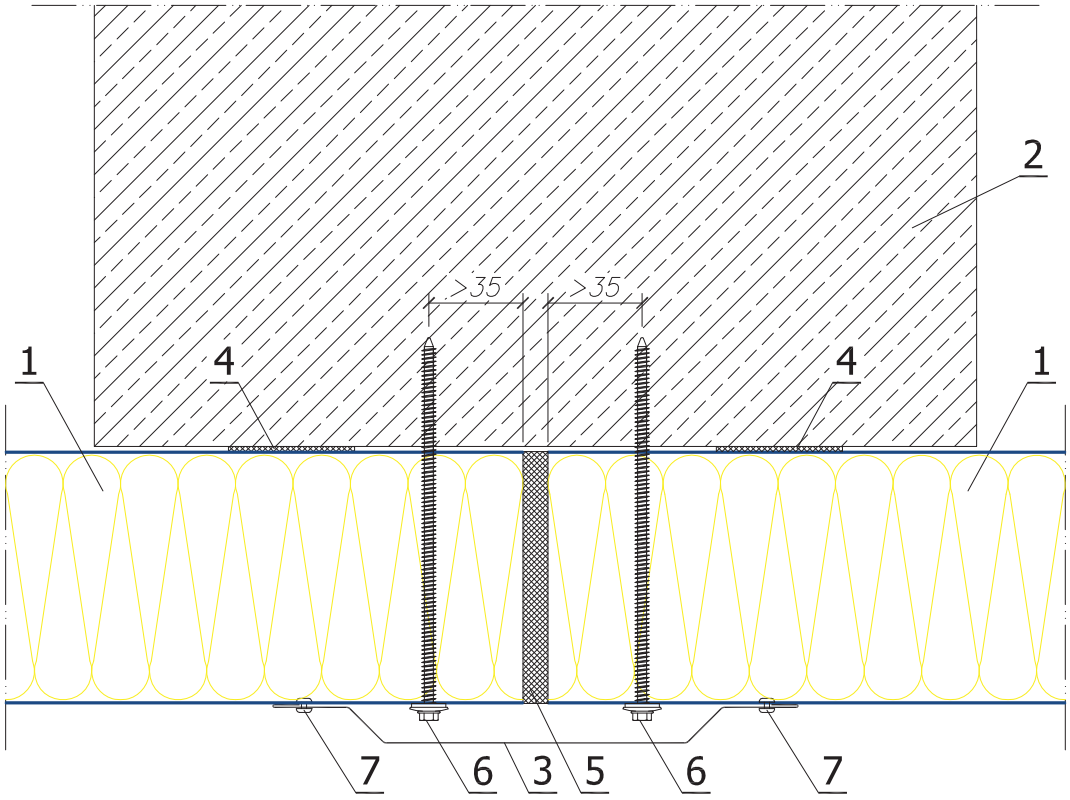
HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to reinforced concrete support

Scale
1:3

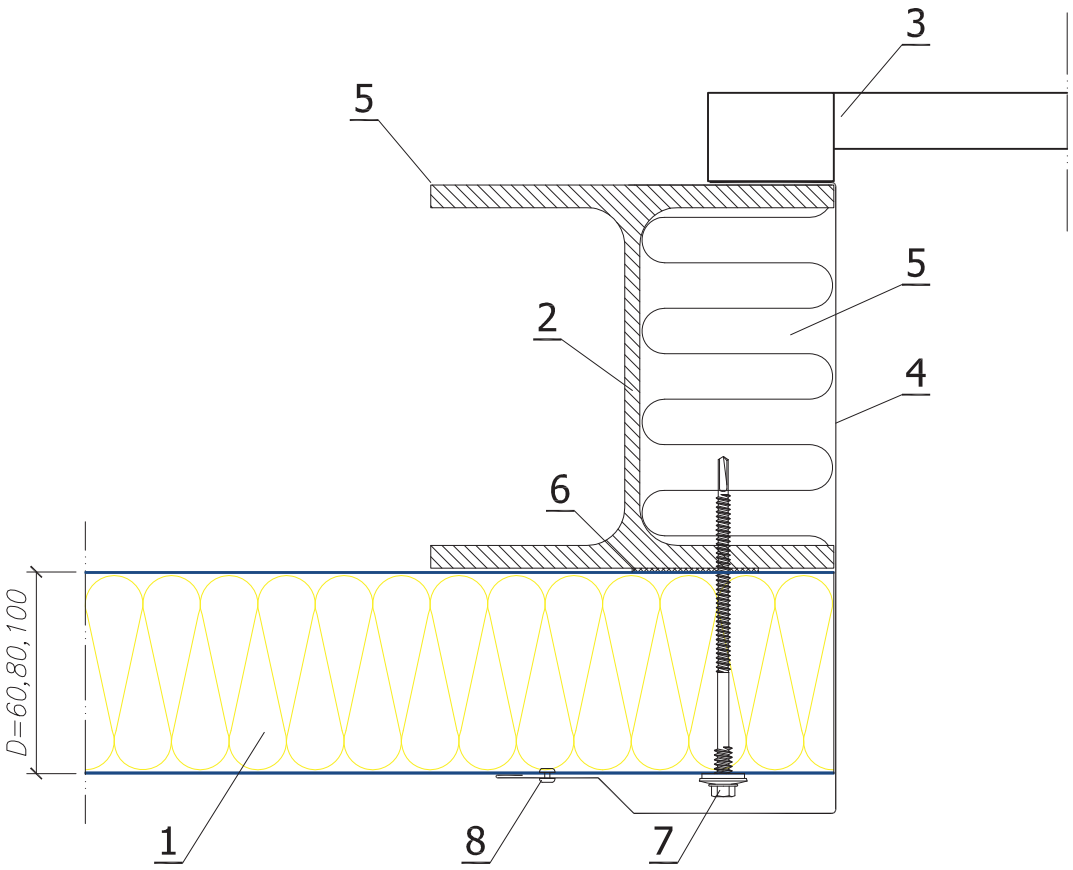
GÓR-STAL



LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Reinforced concrete post acc. to structure design
3. Covering flashing **OB-17**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
6. Connector for fastening of sandwich panels to concrete
7. Tight blind rivet **4.8 x 9.5**

HORIZONTAL ARRANGEMENT of panels
Detail of roll-up door post

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Steel post acc. to structure design
3. Industrial door
4. Door flashing **OB-21**
5. Thermal insulation on the fastening
6. Polyethylene, self-adhesive sealing tape **(PE)**
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

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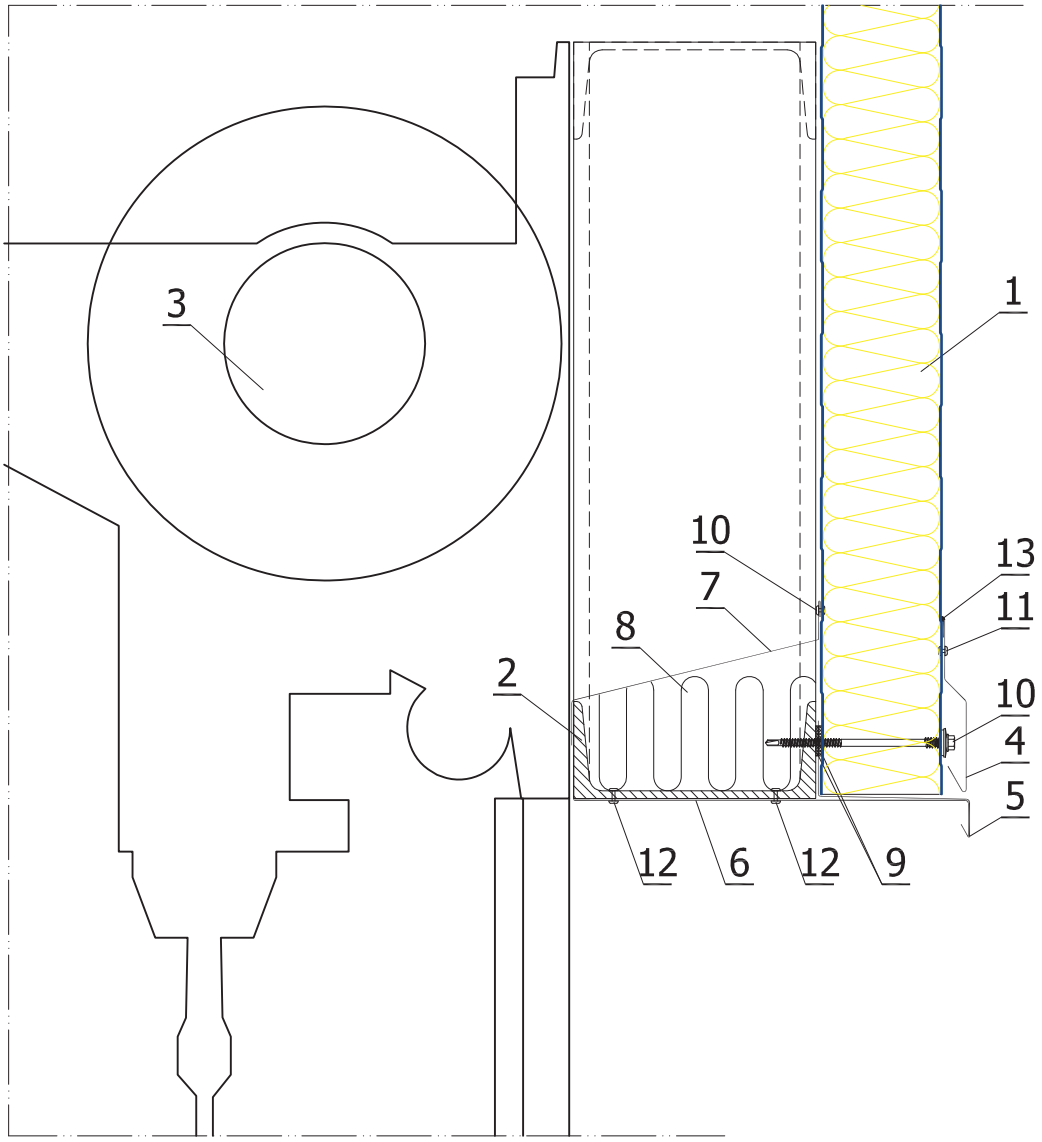
HORIZONTAL ARRANGEMENT of panels
Detail of roll-up door lintel

Scale
1:5

GÓR-STAL

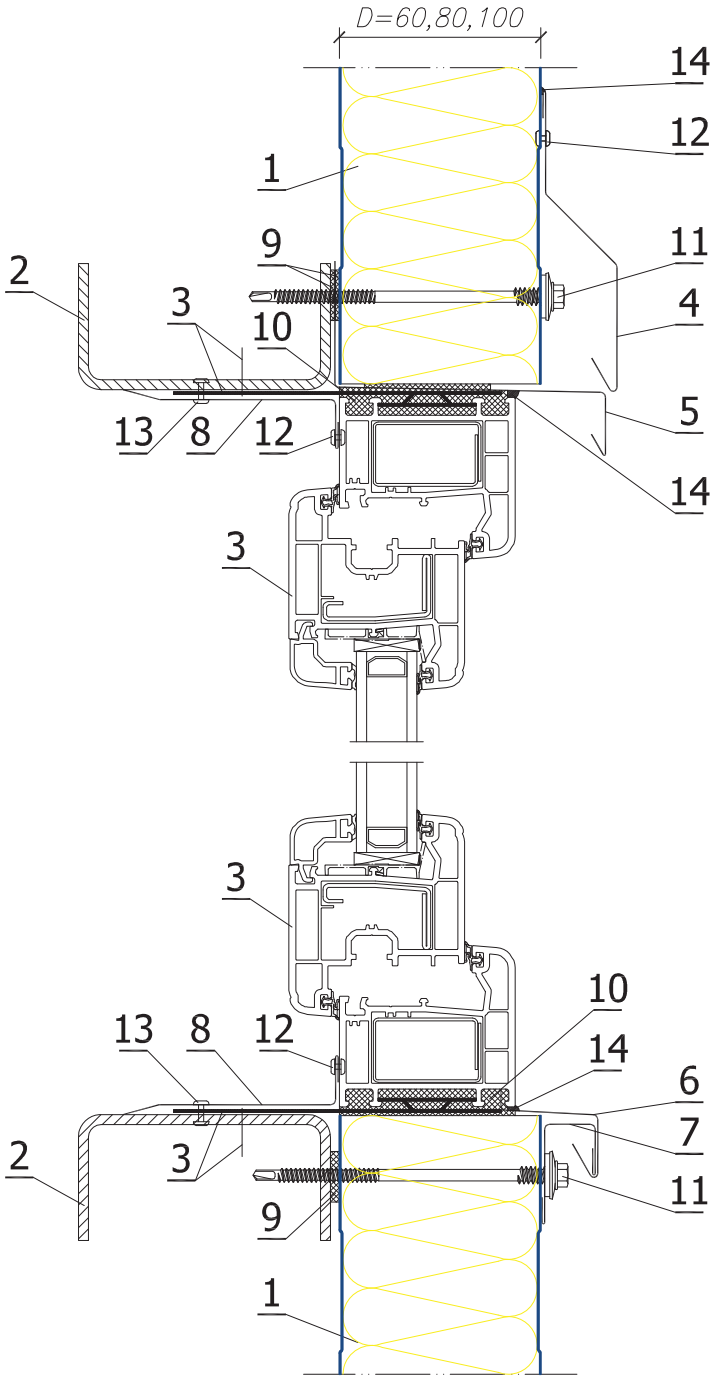


LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Transom acc. to structure design
3. Industrial door
4. Drip edge **OB-10**
5. Drip edge **OB-13**
6. Covering flashing **OB-20**
7. Individual covering flashing
8. Thermal insulation on the fastening
9. Polyethylene, self-adhesive sealing tape **(PES)**
10. Self-drilling connector for sandwich panels
11. Tight blind rivet **4.8 x 9.5**
12. Blind rivet **4.8 x 15.1** (for the structure)
13. Neutral silicone sealant

HORIZONTAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant I – profile

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Transom acc. to structure design
3. PVC or aluminium window with a holder and connector
4. Drip edge **OB-10**
5. Drip edge **OB-13**
6. Cill **OB-37**
7. Rigid flashing **OB-16**
8. Individual inner corner
9. Polyethylene, self-adhesive sealing tape **(PES)**
10. Polyethylene caulking foam
11. Self-drilling connector for sandwich panels
12. Tight blind rivet **4.8 x 9.5**
13. Blind rivet **4.8 x 15.1** (for the structure)
14. Neutral silicone sealant

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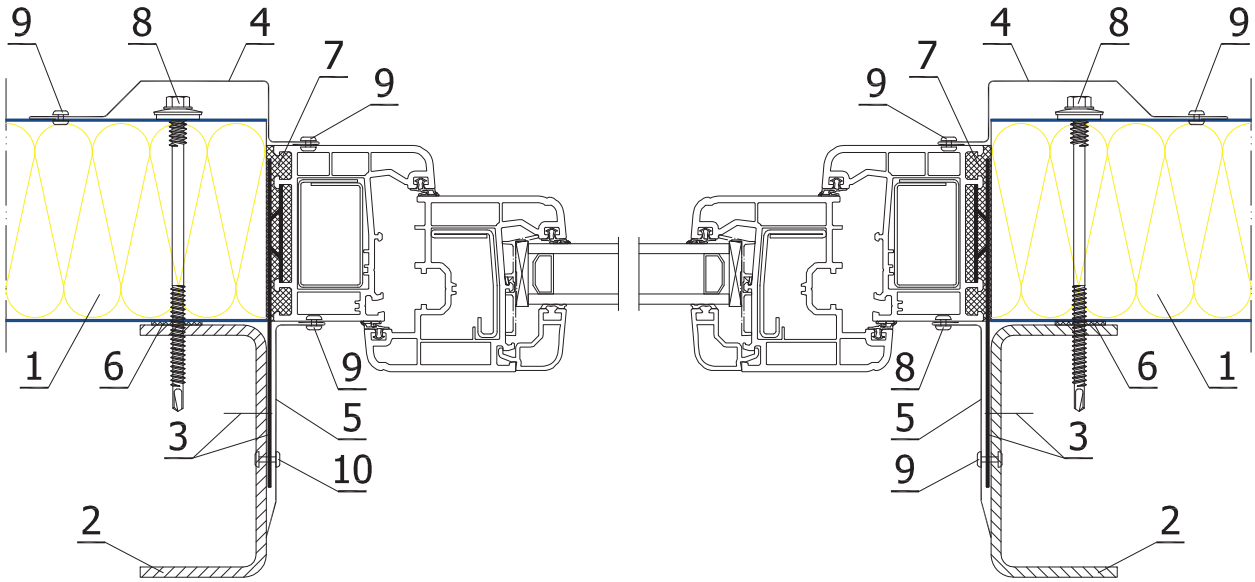
Poziomy układ płyt
Osadzenie okna w płycie warstwowej
Wariant I - przekrój boczny

Scale
1:3

GÓR-STAL

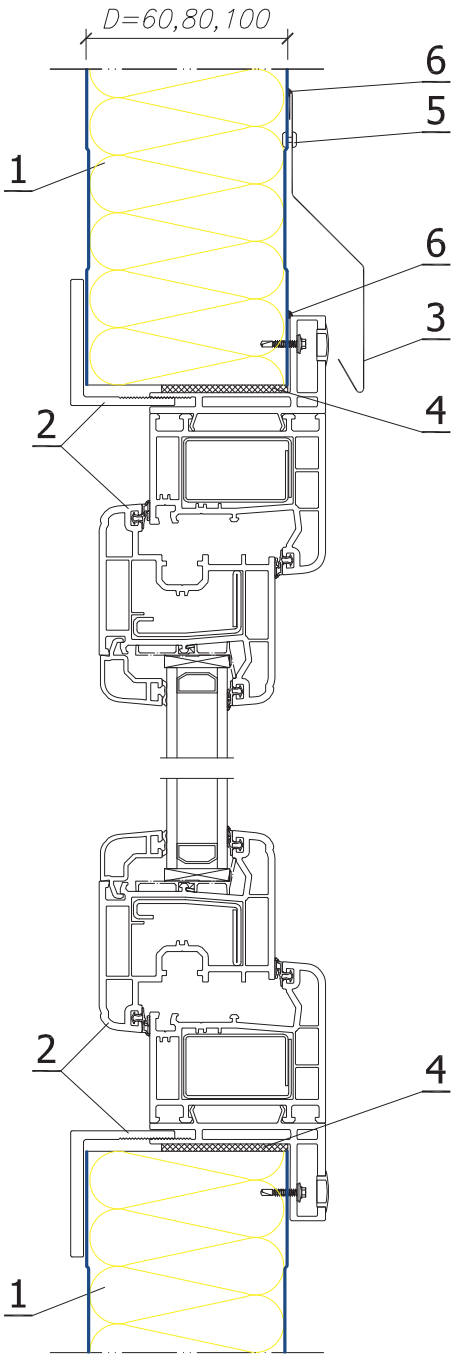


LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. Transom acc. to structure design
3. PVC or aluminium window with a holder and connector
4. Individual covering flashing
5. Individual inner corner
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Polyethylene caulking foam
8. Self-drilling connector for sandwich panels
9. Tight blind rivet **4.8 x 9.5**
10. Blind rivet **4.8 x 15.1** (for the structure)

HORIZONTAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant II – profile

Scale
1:3



LEGEND:

1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. PVC or aluminium window with a fastening profile
3. Drip edge **OB-11** (option)
4. Impregnated polyurethane seal **(PURS)** or caulking foam
5. Tight blind rivet **4.8 x 9.5**
6. Neutral silicone sealant

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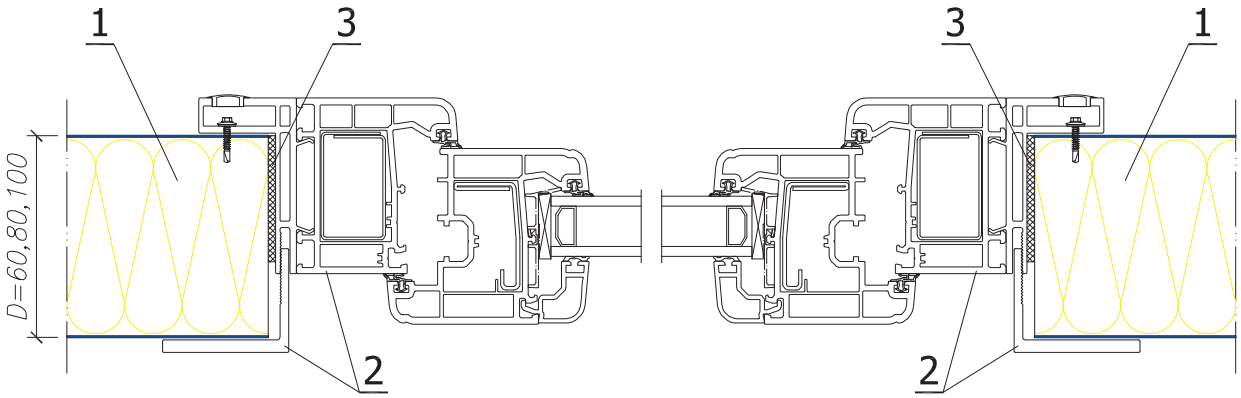
HORIZONTAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant II – cross-section

Scale
1:3

GÓR-STAL



LEGEND:
1. **GORLICKA S / GORLICKA S GS-PIR** wall panel
2. PVC or aluminium window with a fastening profile
3. Impregnated polyurethane seal **(PURS)** or caulking foam

APPLICATION

GORLICKA S / GORLICKA S GS-PIR wall panel is designed for outer screening walls and inner partition walls in structural frame buildings. Panels can be mounted in both vertical and horizontal position, as single-span or multi-span wall elements.

PHYSICAL PROPERTIES

GORLICKA U / GORLICKA U GS-PIR wall panel is produced in the four thicknesses of the core: **60 , 80, 100** and **120 mm.** Panels facing is made of double-sided galvanized steel sheets, 0.50 mm thick as per **PN-EN 10326:2006**, with organic polyester coating **25µm** thick. Thermal insulation core of the panels is a rigid polyurethane **(PUR)** or polyisocyanurate **(PIR)** foam with a thickness of **40 kg/m³**. The heat conductivity calculation value of the foam is: **λ= 0.022 W/m*K**. Modular width of plates is **1000 mm** or **1140 mm.** The standard panel length is between **2.0 to 12 m.** On special request we deliver panels shorter than **2 m** and longer than **12 m**, with a maximum length of **16.5 meters**. Tightness of panel joints is provided by impregnated polyurethane seals applied in the manufacturing process.

Thickness [mm]	Weight [kg/m²]	Modular width [mm]	Length: typical/available [m]	Lining standard RAL colours
60	10,73	1000	2,0 - 12,0 / 16,5	9002, 9010, 9006 9007, 5010, 1015 3000, 6029, 7016, 7035, 8017
80	11,53			
100	12,33			
120	13,13			

Thermal insulation of panels depends on the thickness of the core characterized **by U** thermal coefficient, taking into account the impact of linear thermal bridge appearing on panel joint and point thermal bridge appearing because of connectors. **Acoustic parameters** were determined on the basis of **EN ISO 10140-3**. Coldstore plates can be used as partitions of the requirements of sound insulation no greater than those specified below. **Resistance to chemical corrosion - GORLICKA** sandwich panels can be used in environments with atmosphere corrosiveness category **C1, C2, C3** according to **EN ISO 12944-2**.

TECHNICAL PARAMETERS OF PUR CORE

Thickness [mm]	Heat-transfer coefficient U [W/m²*K]	Acoustic insulation	Reaction to fire	Fire resistance	NRO
	PN-EN 14509	EN ISO 717-1	PN-EN 13501-1	PN-EN 13501-2	PN-B-02867:2013:06
60	0,39	R_W = 23 dB R_{a1} = 21 dB R_{a2} = 19 dB	B-s2, dO	NPD	„NRO"
80	0,29				
100	0,23			E15/EW15, Conditions by classification	
120	0,19				

TECHNICAL PARAMETERS OF PIR CORE

Thickness [mm]	Heat-transfer coefficient U [W/m²*K]	Acoustic insulation	Reaction to fire	Fire resistance	NRO
	PN-EN 14509	EN ISO 717-1	PN-EN 13501-1	PN-EN 13501-2	PN-B-02867:2013:06
60	0,39	R_W = 23 dB R_{a1} = 21 dB R_{a2} = 20 dB	B-s1, dO	NPD	„NRO"
80	0,29				
100	0,23				
120	0,19				

PACKING AND SHIPPING

GORLICKA sandwich panels are provided in packs on pallets allowing their relocation. Typical height of a pack equals approx. **1000 mm**. The table below specifies number of panels in a pack depending on panel thickness.

Panel thickness [mm]	60	80	100	120
Maximum number of panels in one batch	19	14	11	9

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Production programme of panels **Gorlicka U / Gorlicka U GS-PIR:**

- Panel thicknesses
- Profiles of outer and inner facing

Scale
1:10
1:1

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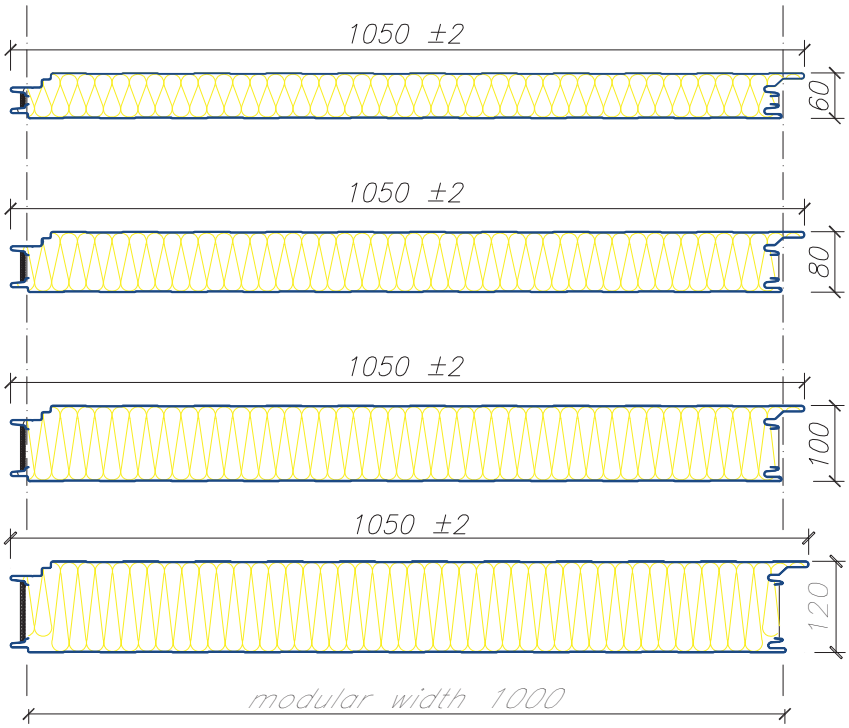
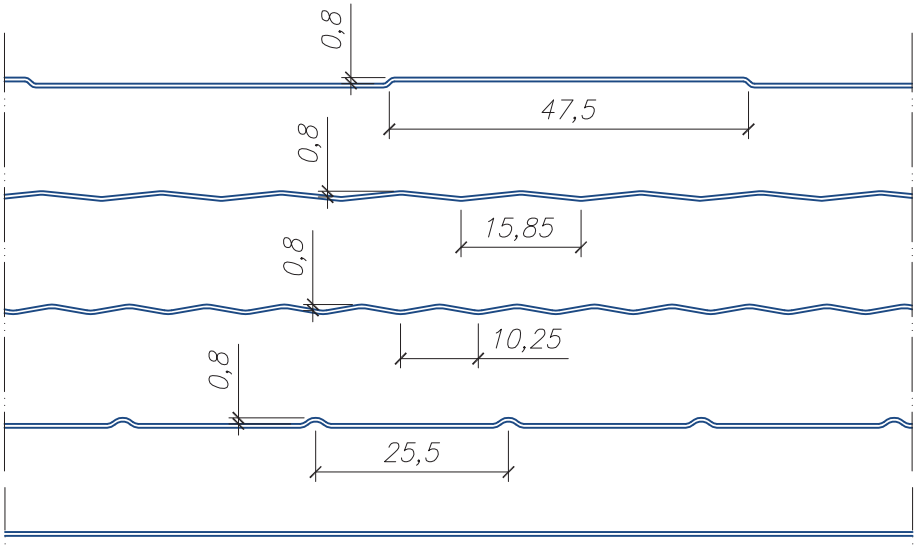
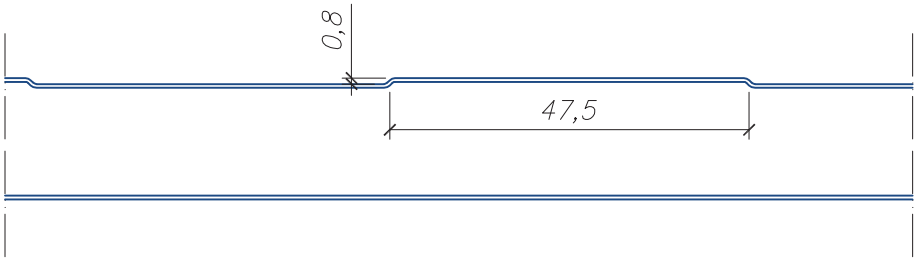
Panel thickness



External lining profiles



Internal lining profiles



LOAD SPAN TABLES FOR GORLICKA U

Load tables are prepared according to **PN-EN 14 509** for panels with PUR core, linings in bright colors with a thickness of **0,5 mm** and for internal temperature **T = 20°C**. In the case of different data it is necessary to perform separate calculations. Deflection condition was adopted to **L/100**. Minimum width of the support - **40/60 mm**. Number of connectors - 2 on support. A detailed list of loads is available on the website.

Table of allowed loads for GORLICKA U mounted as a single-span element, direction **to support**

Panel thickness	The load due to:	The maximum load [kN/m²] 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
60	SGN (q_d)	6,443	4,380	2,780	1,920	1,405	1,072	0,845	0,683	0,563	0,472	0,402
	SGU (q_k)	7,918	4,978	3,160	2,182	1,597	1,204	0,859	0,551	0,337	0,193	0,093
80	SGN (q_d)	7,030	5,236	4,171	3,1111	2,277	1,738	1,370	1,107	0,913	0,766	0,652
	SGU (q_k	8,948	6,665	5,120	3,536	2,588	1,975	1,557	1,195	0,909	0,699	0,499
100	SGN (q_d)	7,617	5,673	4,520	3,756	2,849	2,175	1,714	1,386	1,143	0,959	0,816
	SGU (q_k)	9,695	7,222	5,754	4,426	3,239	2,472	1,949	1,575	1,300	1,091	0,913

Table of allowed loads for GORLICKA U mounted as a **single-span** element, direction **from support**

Panel thickness	The load due to:	The maximum load [kN/m²] 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
60	SGN (q_d)	2,573	1,917	1,527	1,269	1,085	0,948	0,841	0,683	0,563	0,472	0,402
	SGU (q_k)	3,424	2,550	2,032	1,688	1,444	1,219	0,961	0,701	0,524	0,360	0,240
80	SGN (q_d)	2,573	1,917	1,527	1,269	1,085	0,948	0,841	0,756	0,687	0,629	0,580
	SGU (q_k	3,424	2,550	2,032	1,688	1,444	1,262	1,120	1,007	0,915	0,775	0,610
100	SGN (q_d)	2,573	1,917	1,527	1,269	1,085	0,948	0,841	0,756	0,687	0,629	0,580
	SGU (q_k)	3,424	2,550	2,032	1,688	1,444	1,262	1,120	1,007	0,915	0,838	0,773

Table of allowed loads for GORLICKA U mounted as a **multi-span** element, direction **to support**

Panel thickness	The load due to:	The maximum load [kN/m²] 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
60	SGN (q_d)	4,031	3,001	2,411	1,826	1,329	1,000	0,773	0,615	0,501	0,417	0,352
	SGU (q_k)	6,070	4,462	3,543	2,555	1,875	1,393	1,077	0,858	0,701	0,583	0,493
80	SGN (q_d)	5,316	3,918	3,108	2,580	2,132	1,563	1,197	0,947	0,769	0,638	0,537
	SGU (q_k	6,925	5,094	4,033	3,340	2,825	1,698	1,602	1,272	1,036	0,860	0,726
100	SGN (q_d)	5,872	4,319	3,422	2,727	2,426	2,120	1,787	1,444	1,191	0,999	0,842
	SGU (q_k)	7,654	5,623	4,446	3,679	3,139	2,739	2,401	1,941	1,576	1,307	1,101

Table of allowed loads for GORLICKA U mounted as a **multi-span** element, direction **from support**

Panel thickness	The load due to:	The maximum load [kN/m²] 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
60	SGN (q_d)	2,191	1,630	1,350	1,090	0,937	0,823	0,733	0,586	0,476	0,393	0,330
	SGU (q_k)	1,781	1,322	1,056	0,881	0,756	0,663	0,590	0,532	0,484	0,444	0,411
80	SGN (q_d)	2,157	1,601	1,281	1,071	0,922	0,810	0,723	0,653	0,595	0,547	0,506
	SGU (q_k	1,695	1,260	1,010	0,845	0,729	0,641	0,573	0,517	0,472	0,434	0,402
100	SGN (q_d)	2,019	1,497	1,203	1,012	0,875	0,773	0,693	0,628	0,574	0,529	0,491
	SGU (q_k)	1,670	1,236	0,990	0,829	0,715	0,630	0,563	0,510	0,466	0,428	0,397

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Selected details of cladding made of GORLICKA U / GORLICKA U GS-PIR sandwich panels

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VERTICAL ARRANGEMENT of panels

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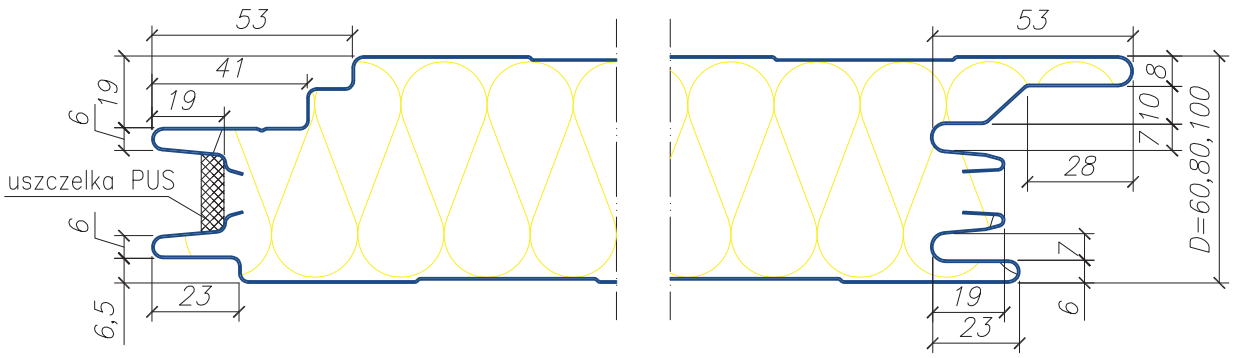
Window assembly in sandwich panel – variant II – cross-section 75

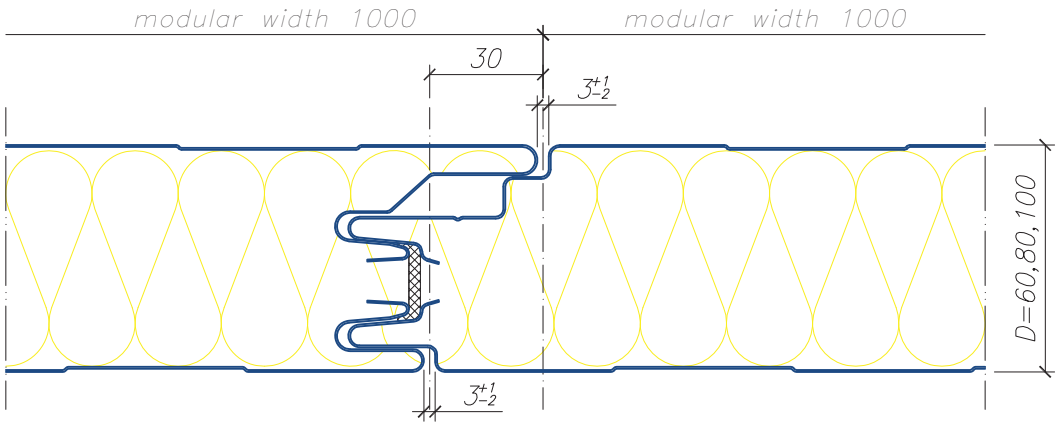
Shape of cam-lock
Details of panels' connection

Scale
1:2

Shape of cam-lock for panels



Detail of panels' connection



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Details of panels' connection
Pm1 spacer

Scale
1:2

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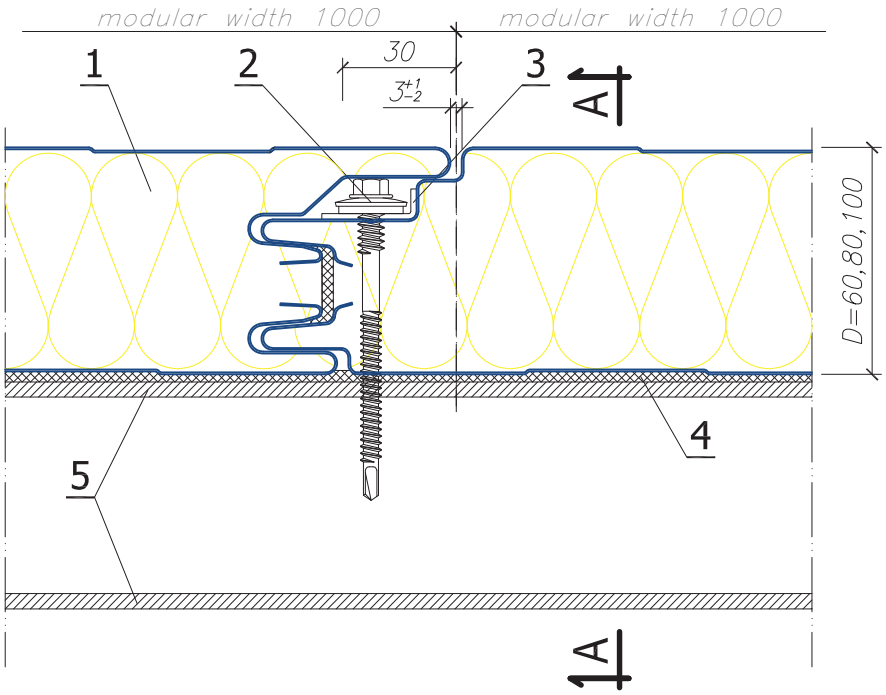
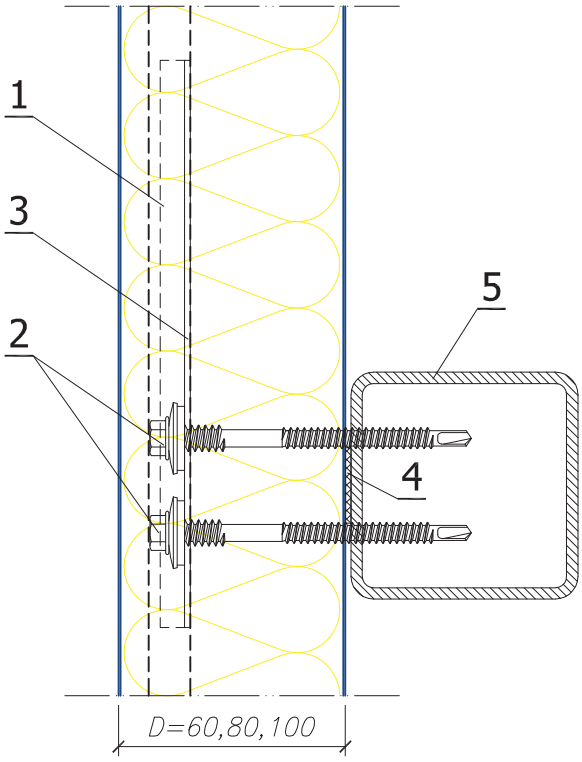
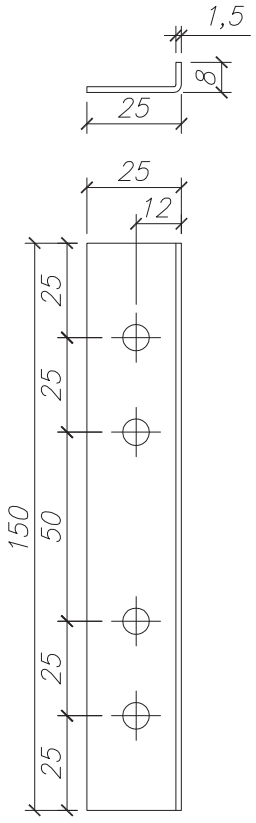
Details of panels' connection



A-A cross-section



Pm1 spacer

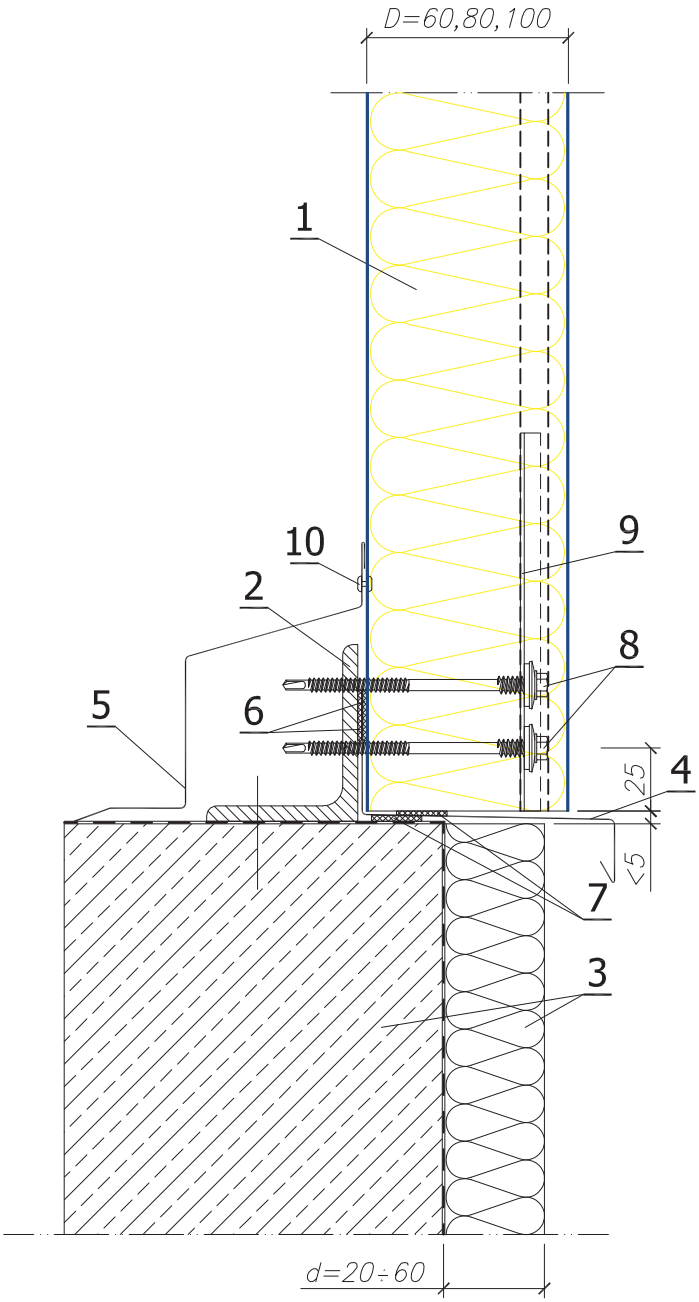


LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Self-drilling connector for sandwich panels
3. PM1 spacer
4. Polyethylene, self-adhesive sealing tape **(PE)**
5. Transom acc. to structure design

NOTE: Every panel should be fastened to the structure with two connectors

VERTICAL ARRANGEMENT of panels
Details of panel connection to grade beam
Variant I

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel section acc. to structure design
3. Grade beam with insulation and thermal insulation acc. to detailed design
4. Drip edge **OB-10**
5. Covering flashing **OB-09**
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Impregnated polyurethane seal
8. Self-drilling connector for sandwich panels
9. **PM1** spacer
10. Tight blind rivet **4.8 x 9.5**

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VERTICAL ARRANGEMENT of panels
Details of panel connection to grade beam
Variant II

Scale
1:3

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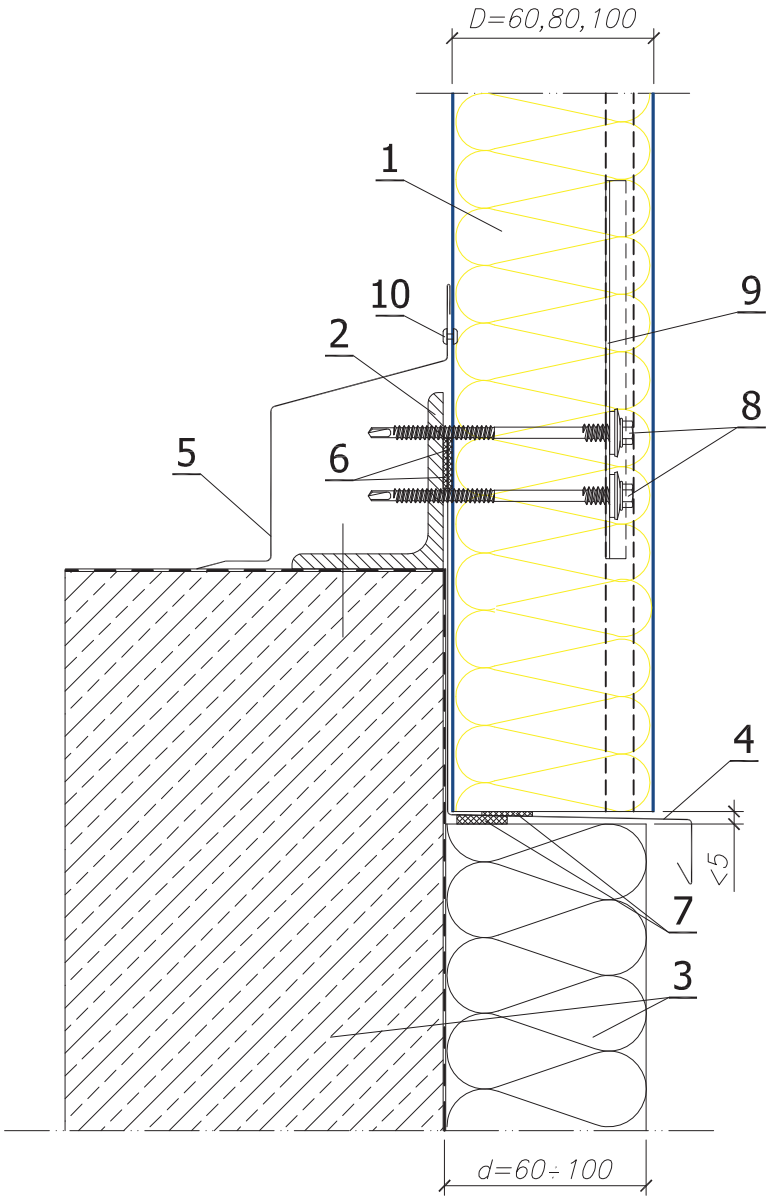
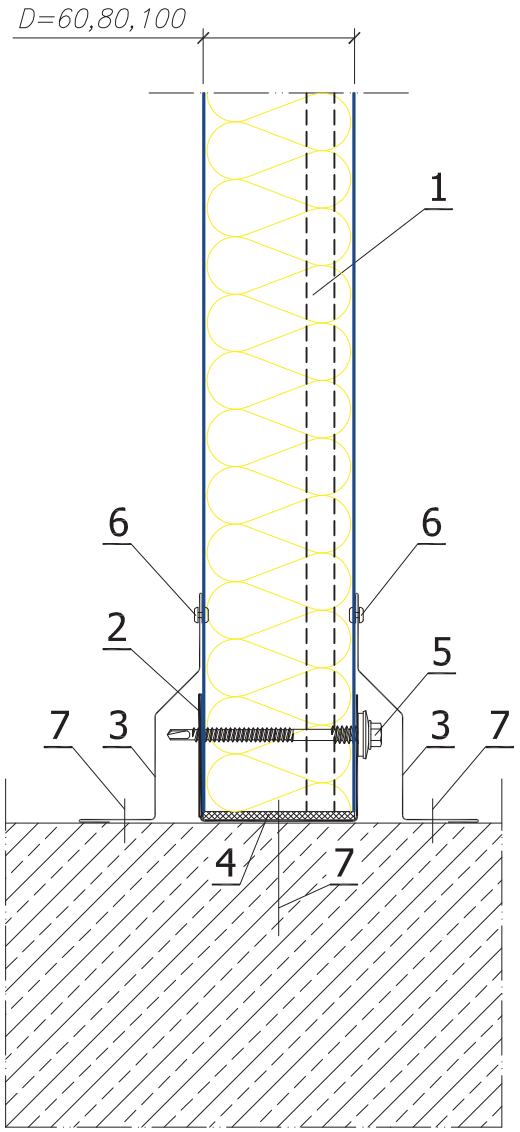


LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel section acc. to structure design
3. Grade beam with insulation and thermal insulation acc. to detailed design
4. Eaves **OB-13** (extended)
5. Covering flashing **OB-09**
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Impregnated polyurethane seal
8. Self-drilling connector for sandwich panels
9. **PM1** spacer
10. Tight blind rivet **4.8 x 9.5**

VERTICAL ARRANGEMENT of panels
Detail of panel connection to flooring

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Edge channel section **OB-42**
3. Covering flashing **OB-05**
4. Impregnated polyurethane seal **(PURS)** or caulking foam
5. Self-drilling connector for sandwich panels
6. Tight blind rivet **4.8 x 9.5**
7. Steel expansion joint for fast assembly

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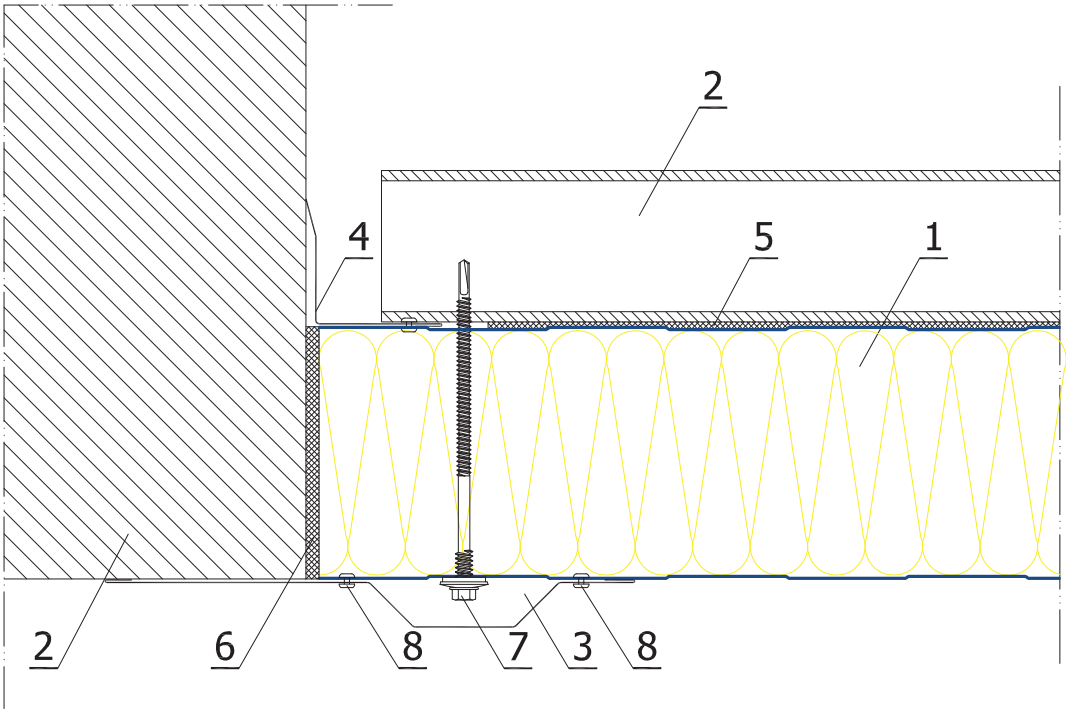
VERTICAL ARRANGEMENT of panels
Detail of panel connection to wall

Scale
1:3

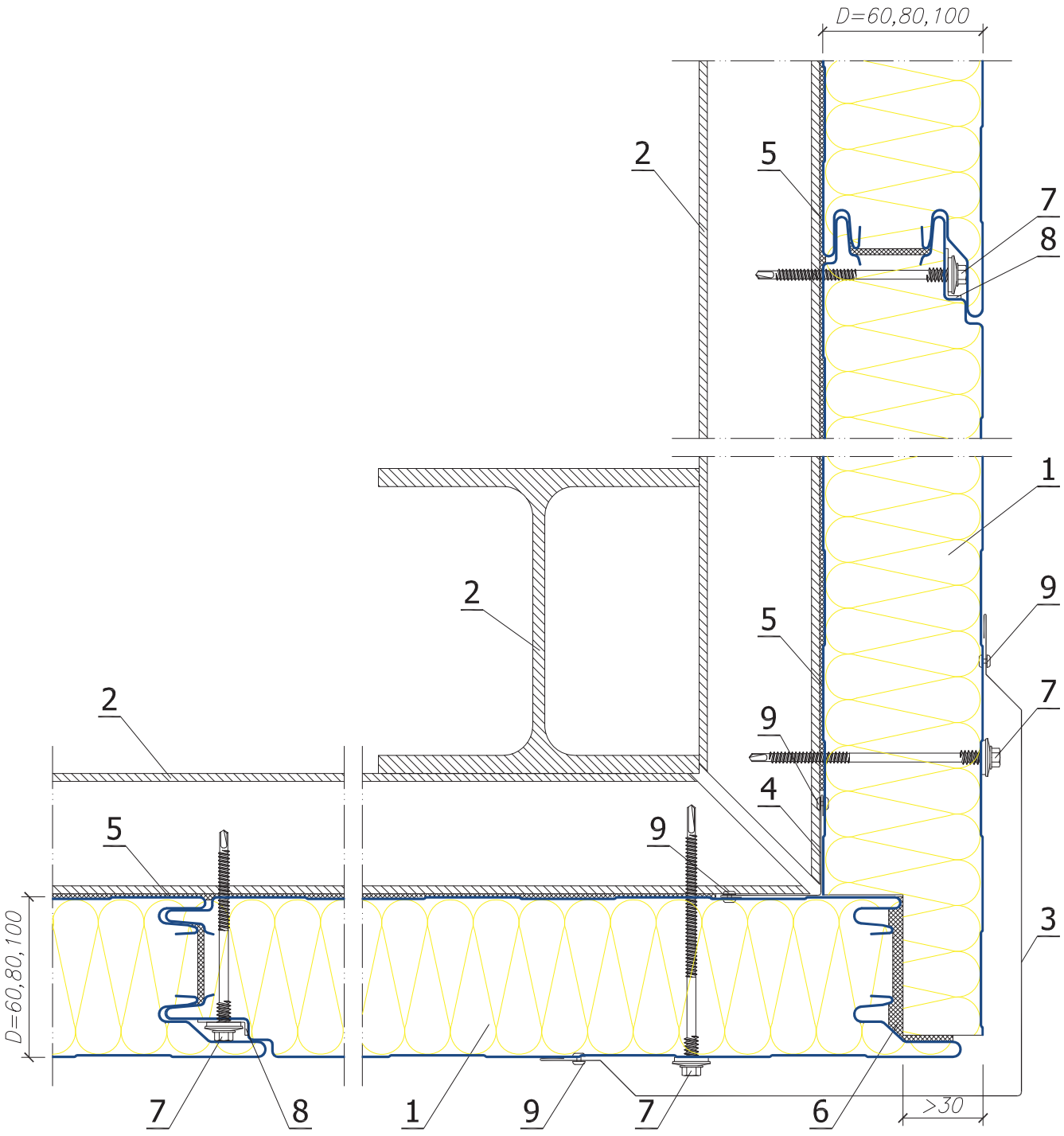
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Wall and transom acc. to structure design
3. Covering flashing **OB-19**
4. Inner corner flashing **OB-07**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

VERTICAL ARRANGEMENT of panels
Detail of panels' connection in a corner
Variant I

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel post and transom acc. to structure design
3. Corner flashing **OB-03**
4. Corner flashing **OB-02**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Impregnated polyurethane seal **(PURS)** or caulking foam
7. Self-drilling connector for sandwich panels
8. **PM1** spacer
9. Tight blind rivet **4.8 x 9.5**

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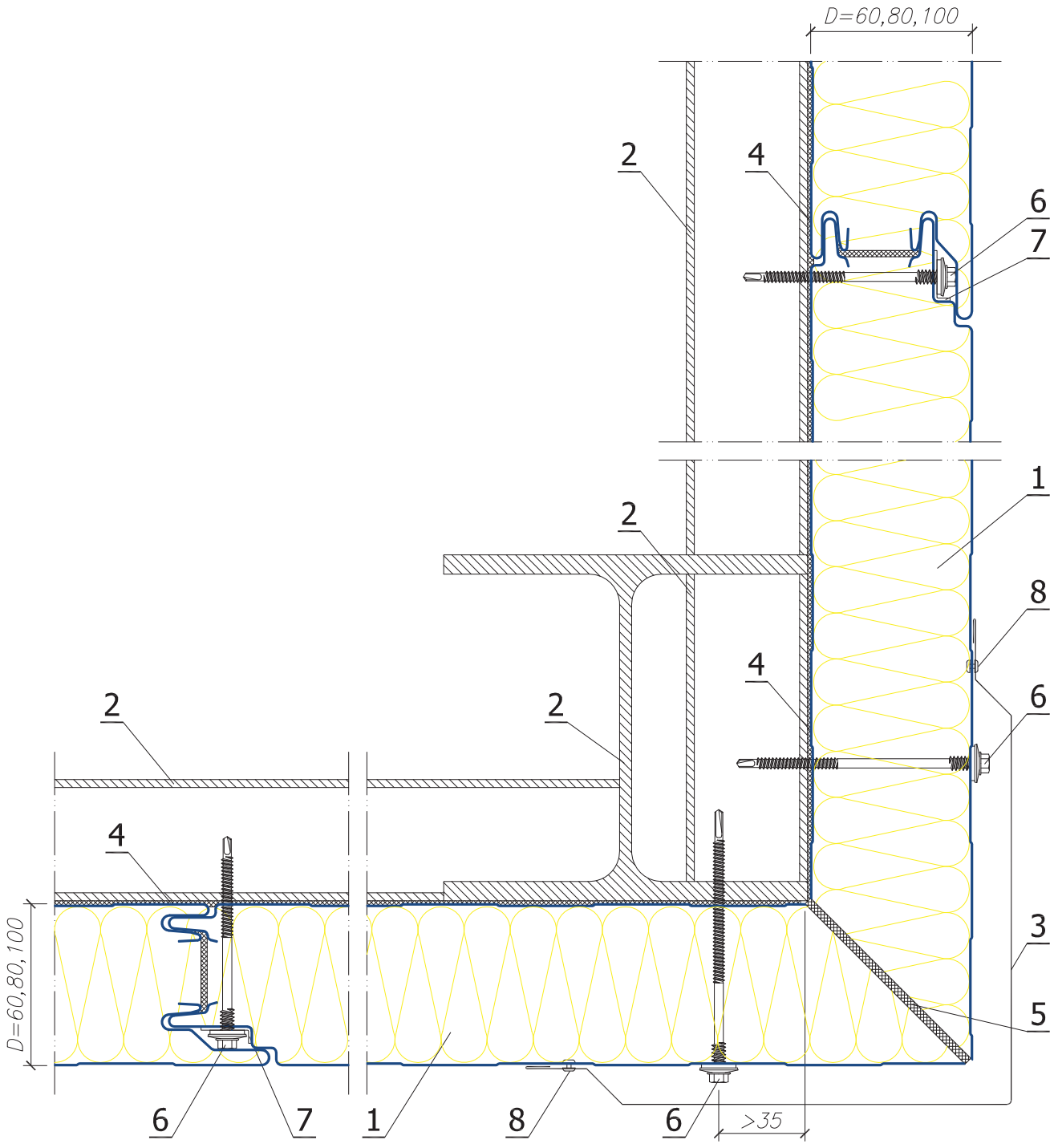
VERTICAL ARRANGEMENT of panels
Detail of panels' connection in a corner
Variant II

Scale
1:3

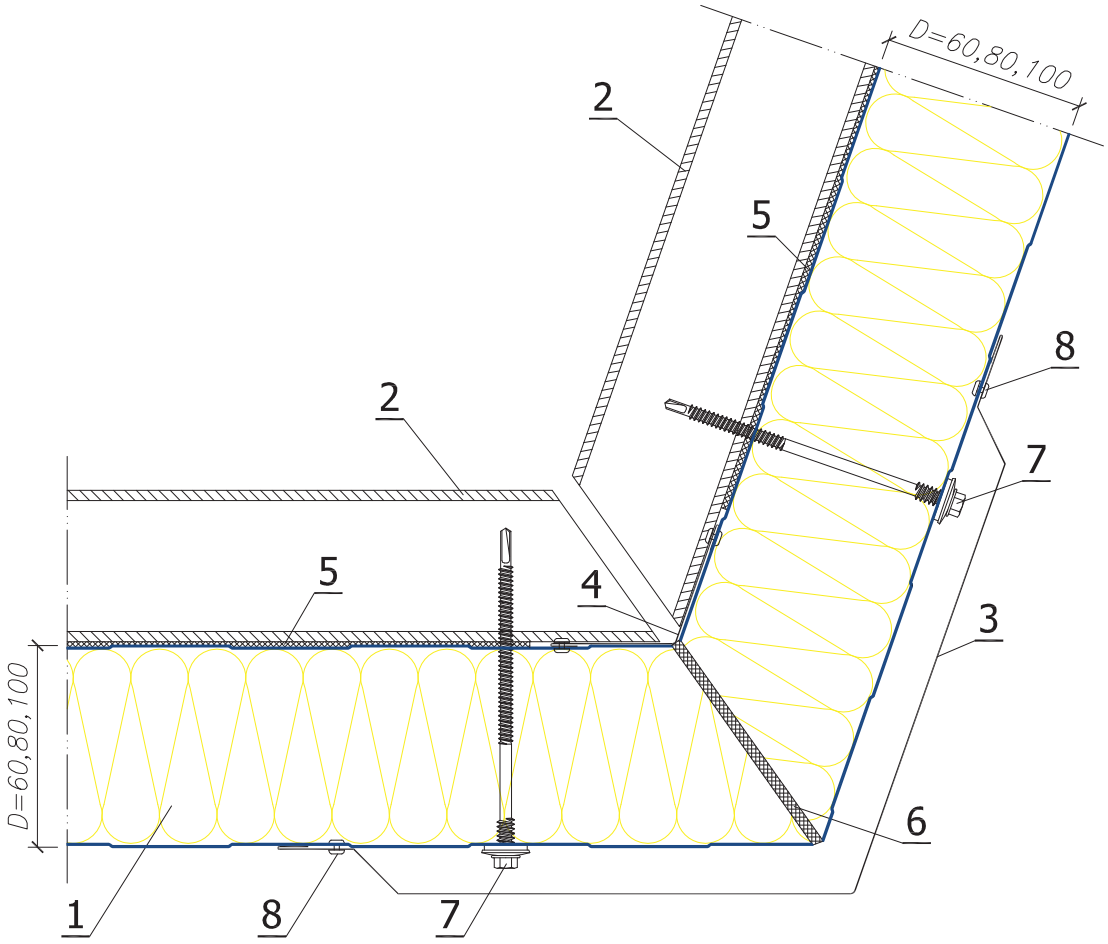
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel post and transom acc. to structure design
3. Corner flashing **OB-03**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Impregnated polyurethane seal **(PURS)** or caulking foam
6. Self-drilling connector for sandwich panels
7. **PM1** spacer
8. Tight blind rivet **4.8 x 9.5**

VERTICAL ARRANGEMENT of panels
Detail of panels' connection in an optional angle corner

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Transom acc. to structure design
3. Corner flashing **OB-03**
4. Corner flashing **OB-02**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Polyurethane caulking foam
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

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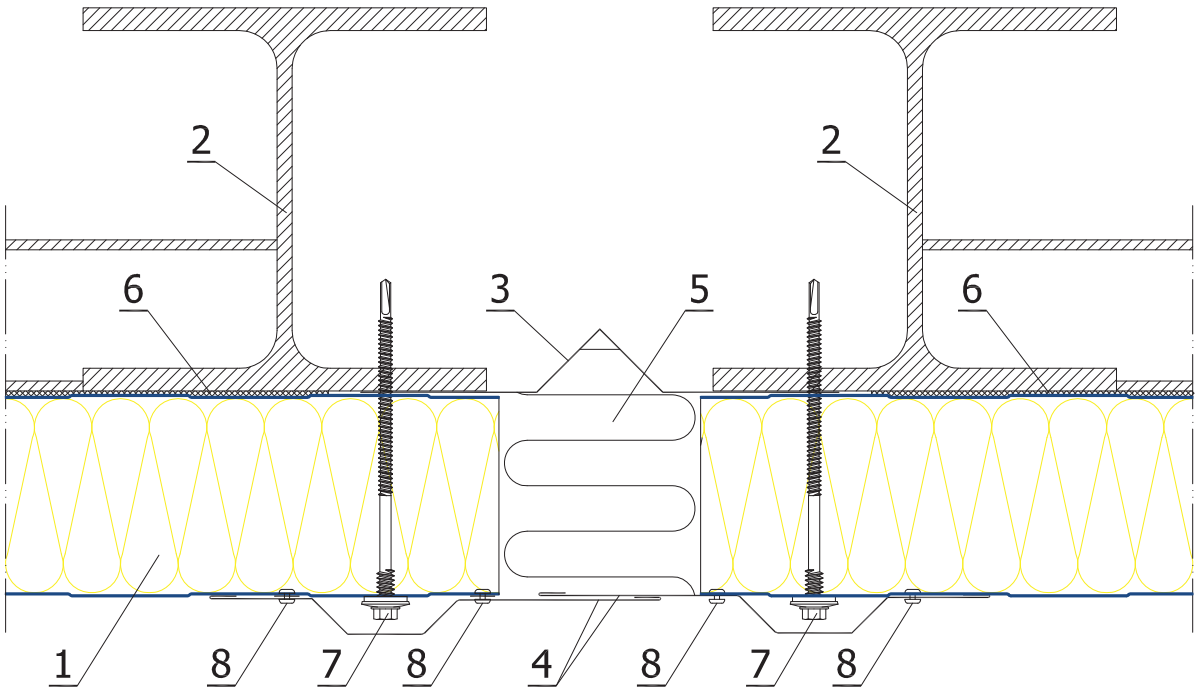
VERTICAL ARRANGEMENT of panels
Detail of building expansion joint

Scale
1:3

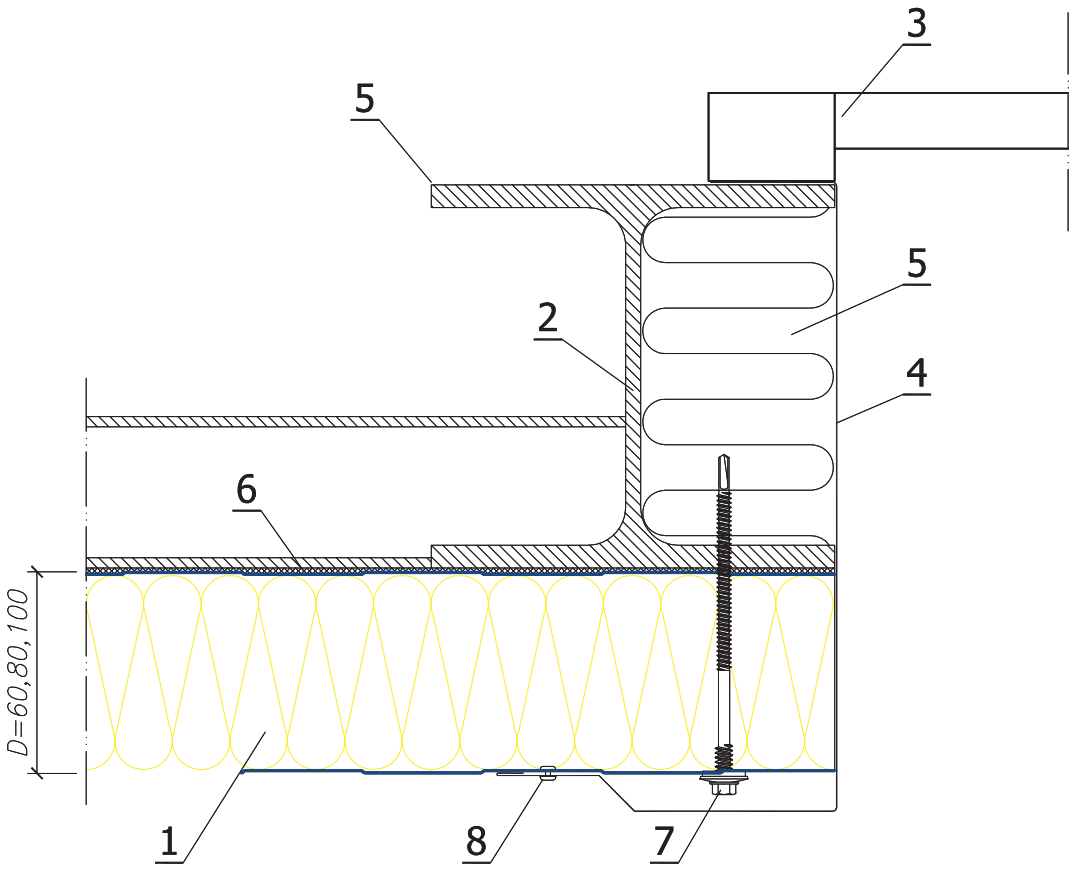
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel posts and transom acc. to structure design
3. Individual expansion joint flashing
4. Covering flashing **OB-09**
5. Thermal insulation on the fastening
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

VERTICAL ARRANGEMENT of panels
Detail of roll-up door post

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel post and transom acc. to structure design
3. Industrial door
4. Door flashing **OB-21**
5. Thermal insulation on the fastening
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**

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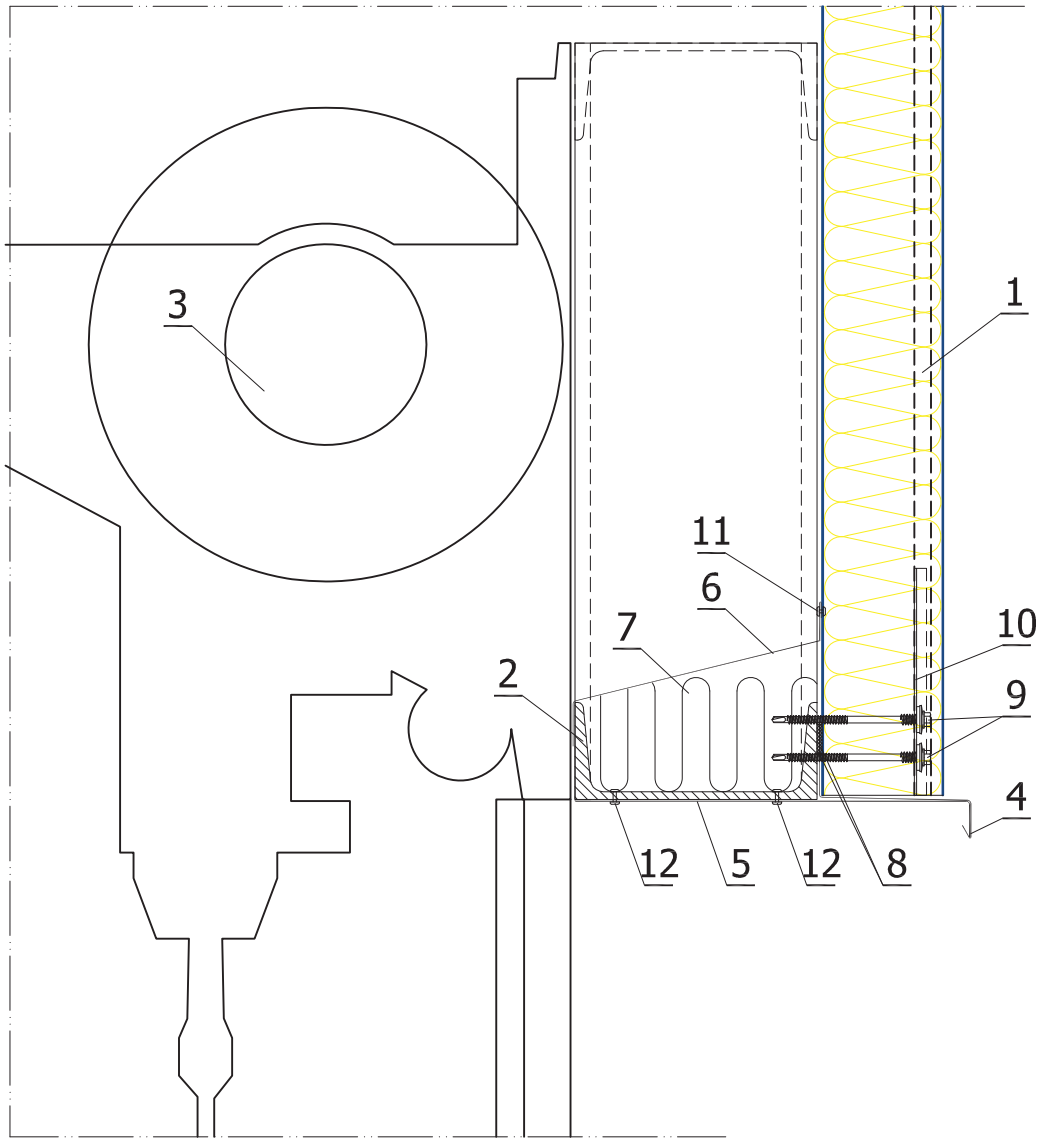
VERTICAL ARRANGEMENT of panels
Detail of roll-up door lintel

Scale
1:5

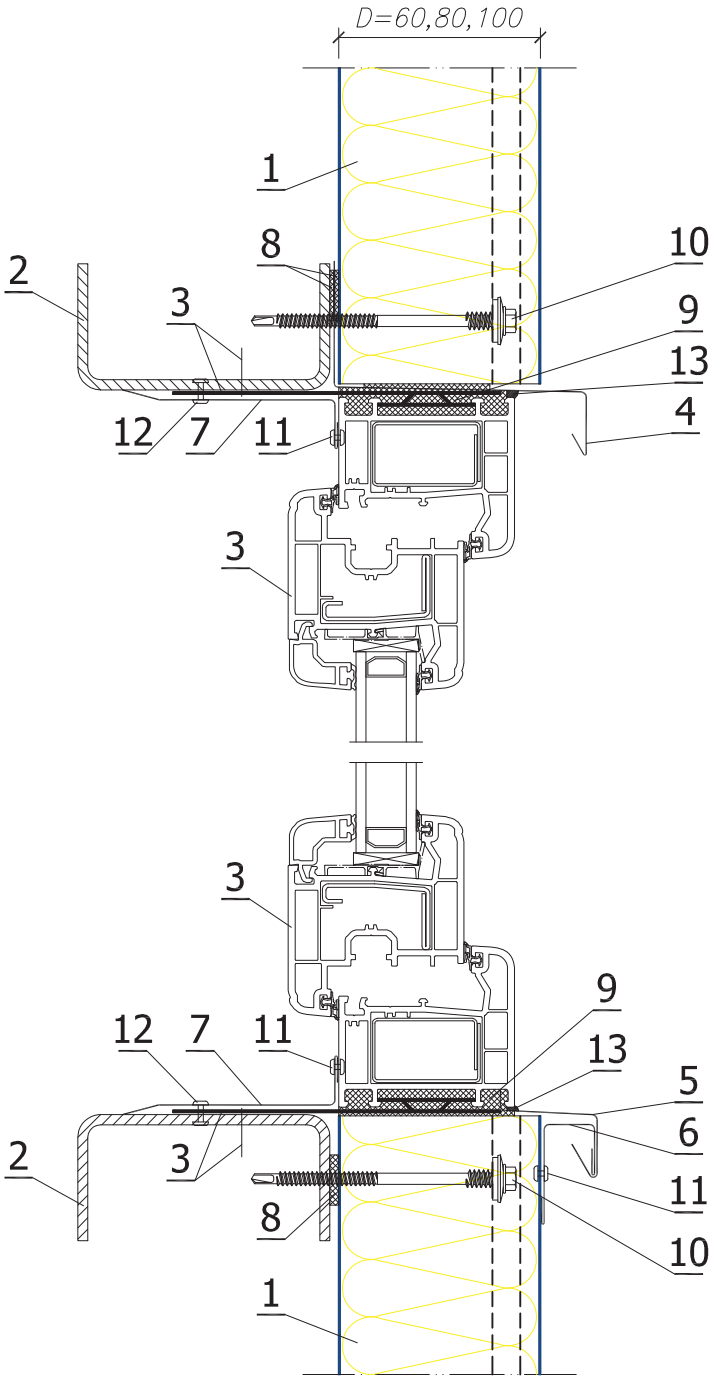
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Transom acc. to structure design
3. Industrial door
4. Drip edge **OB-13**
5. Covering flashing **OB-20**
6. Individual covering flashing
7. Thermal insulation on the fastening
8. Polyethylene, self-adhesive sealing tape **(PES)**
9. Self-drilling connector for sandwich panels
10. PM1 spacer
11. Tight blind rivet **4.8 x 9.5**
12. Blind rivet **4.8 x 15.1** (for the structure)

VERTICAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant I – profile

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Transom acc. to structure design
3. PVC or aluminium window with a holder and connector
4. Drip edge **OB-13**
5. Cill **OB-37**
6. Rigid flashing **OB-16**
7. Individual inner corner
8. Polyethylene, self-adhesive sealing tape **(PES)**
9. Polyethylene caulking foam
10. Self-drilling connector for sandwich panels
11. Tight blind rivet **4.8 x 9.5**
12. Blind rivet **4.8 x 15.1** (for the structure)
13. Neutral silicone sealant

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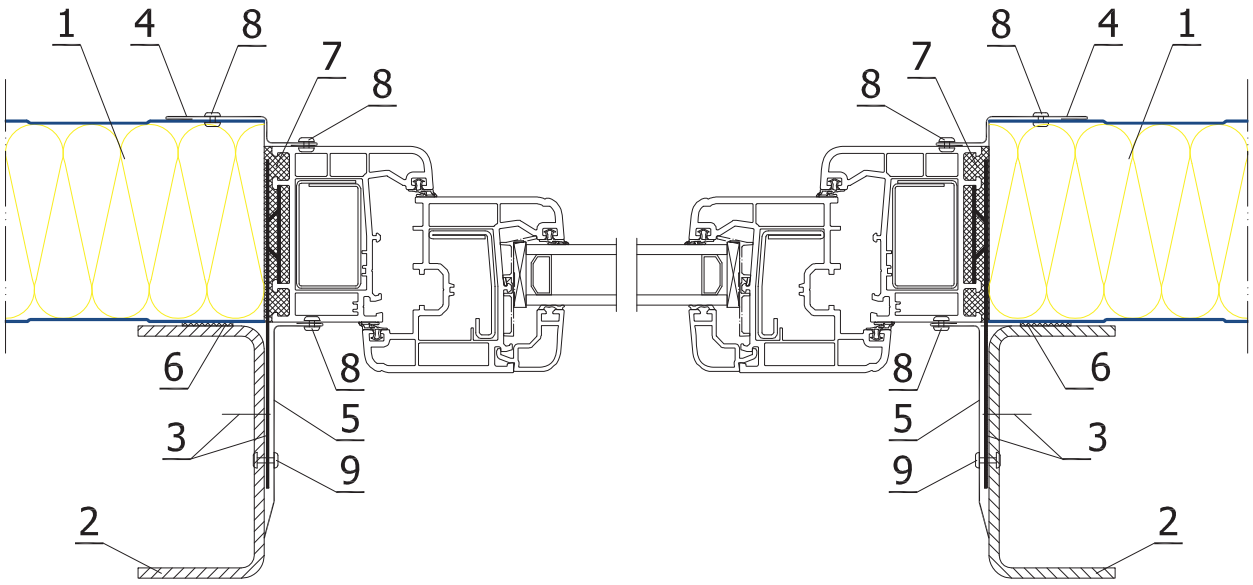
VERTICAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant I – cross-section

Scale
1:3

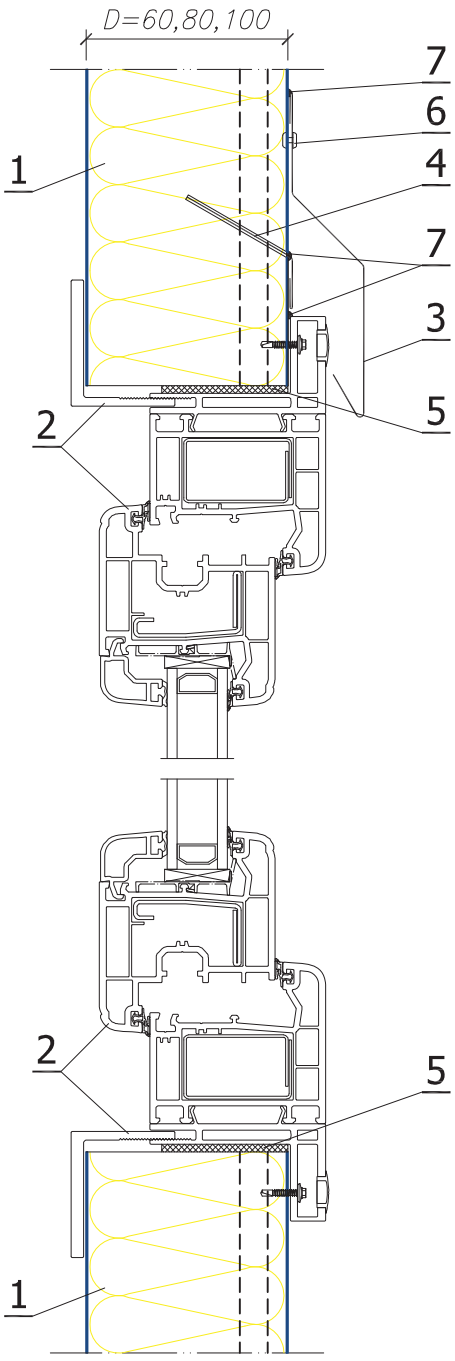
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Transom acc. to structure design
3. PVC or aluminium window with a holder and connector
4. Individual covering flashing
5. Individual inner corner
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Polyethylene caulking foam
8. Tight blind rivet **4.8 x 9.5**
9. Blind rivet **4.8 x 15.1** (for the structure)

VERTICAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant II – profile

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. PVC or aluminium window with a fastening profile
3. Drip edge **OB-11** (option)
4. Additional flashing on panels' junction
5. Impregnated polyurethane seal **(PURS)** or caulking foam
6. Tight blind rivet **4.8 x 9.5**
7. Neutral silicone sealant

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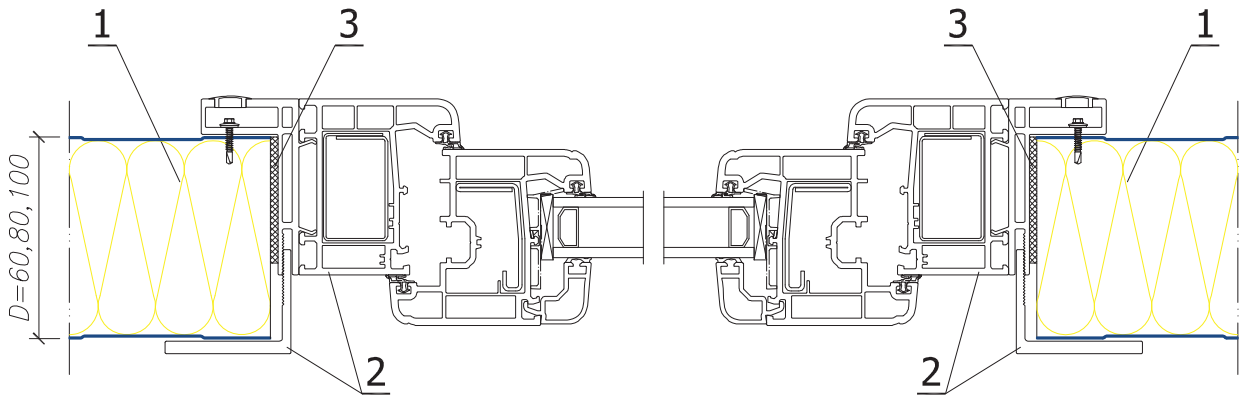
VERTICAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant II – cross-section

Scale
1:3

GÓR-STAL

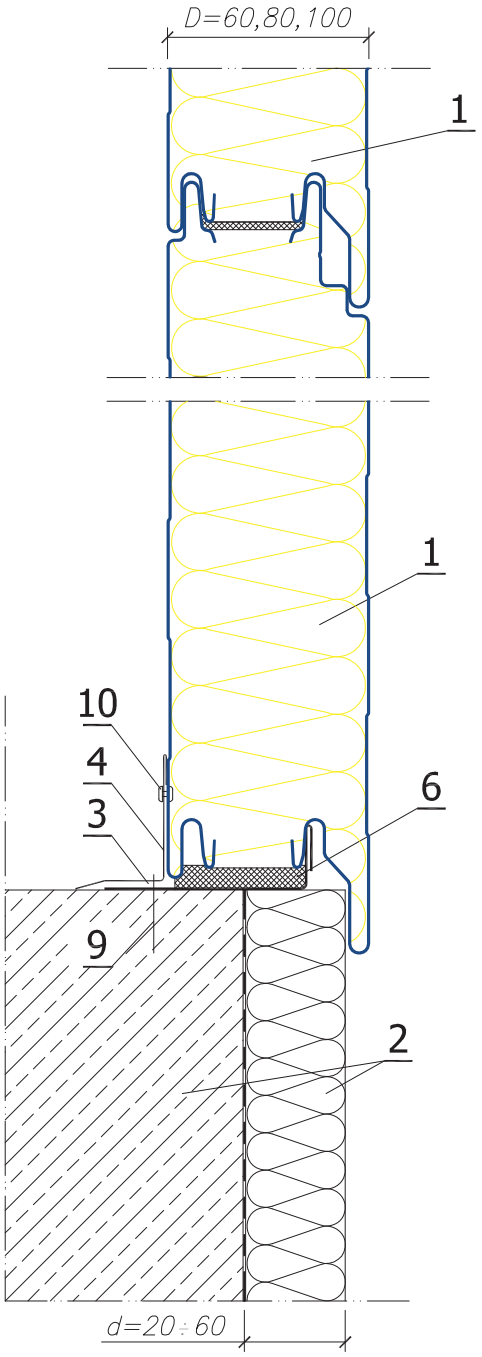


LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. PVC or aluminium window with a fastening profile
3. Impregnated polyurethane seal **(PURS)** or caulking foam

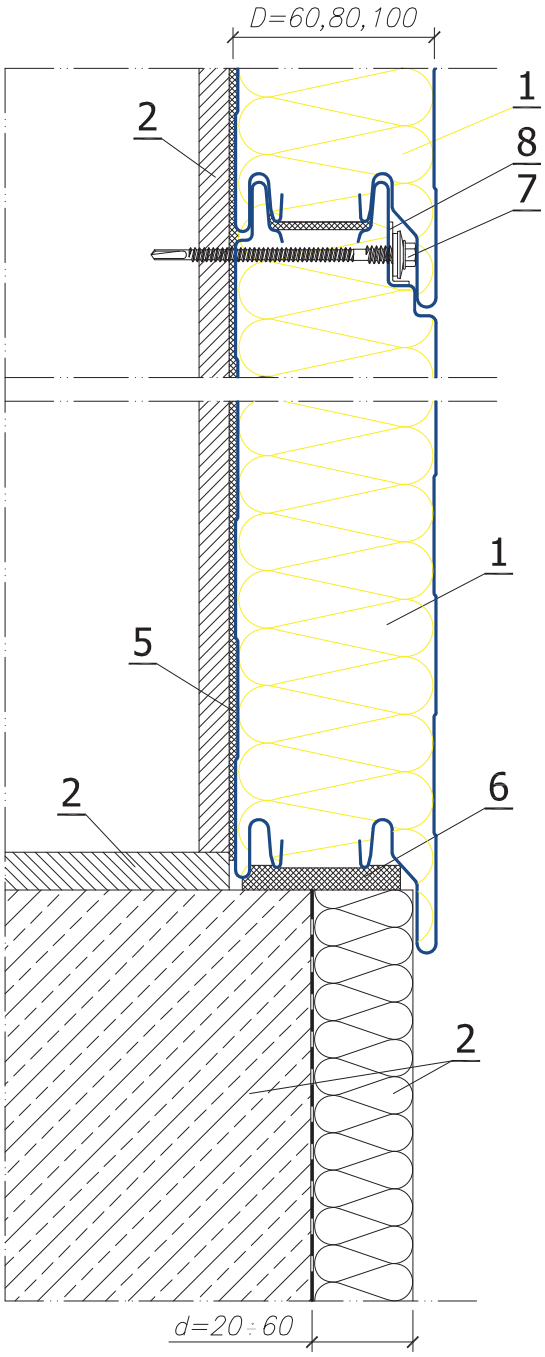
HORIZONTAL ARRANGEMENT of panels
Details of panel connection to grade beam
Variant I

Scale
1:3

In the span



On the support



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
3. Angle bar **OB-41**
4. Inner corner flashing **OB-07**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
7. Self-drilling connector for sandwich panels
8. **PM1** spacer
9. Steel expansion joint for quick assembly
10. Tight blind rivet **4.8 x 9.5**

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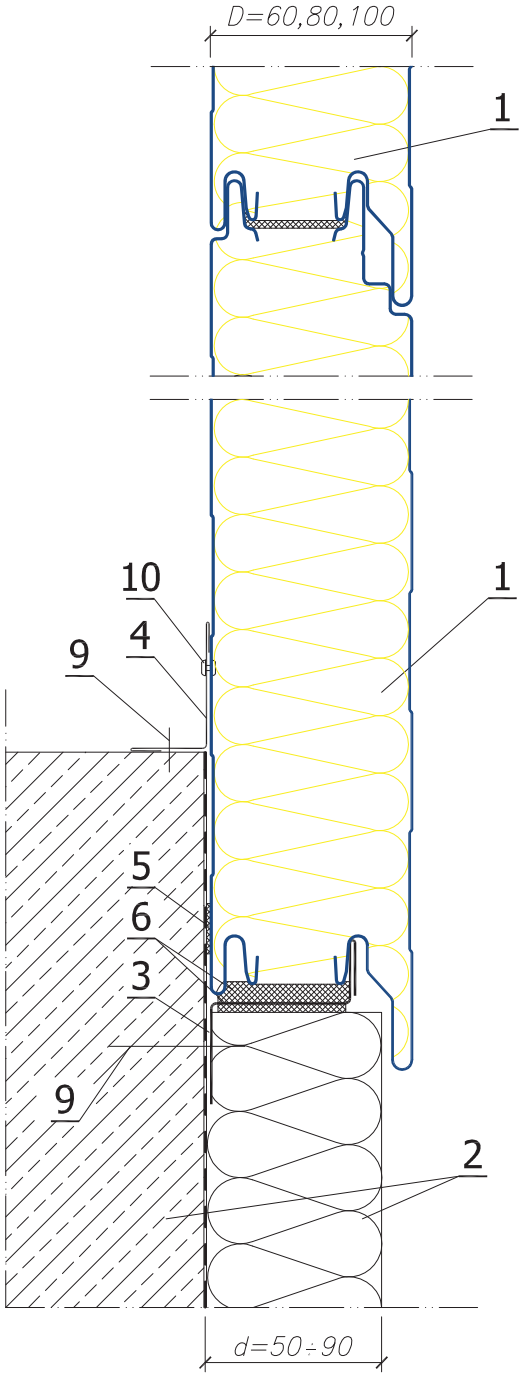
HORIZONTAL ARRANGEMENT of panels
Details of panel connection to grade beam
Variant II

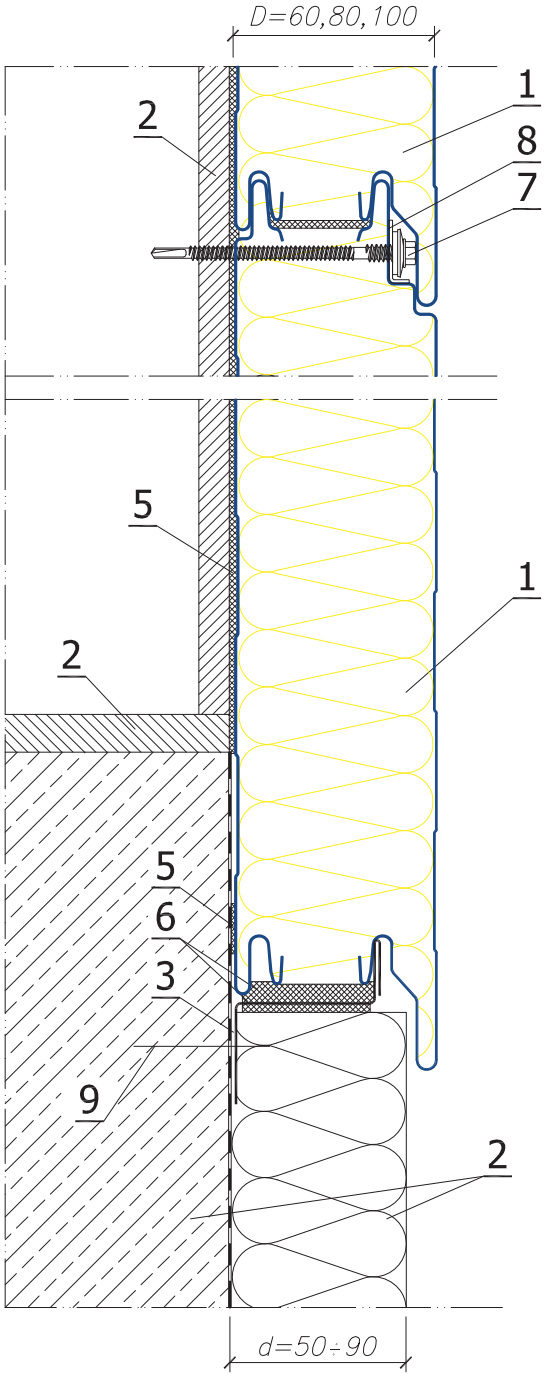
Scale
1:3

GÓR-STAL

In the span



On the support

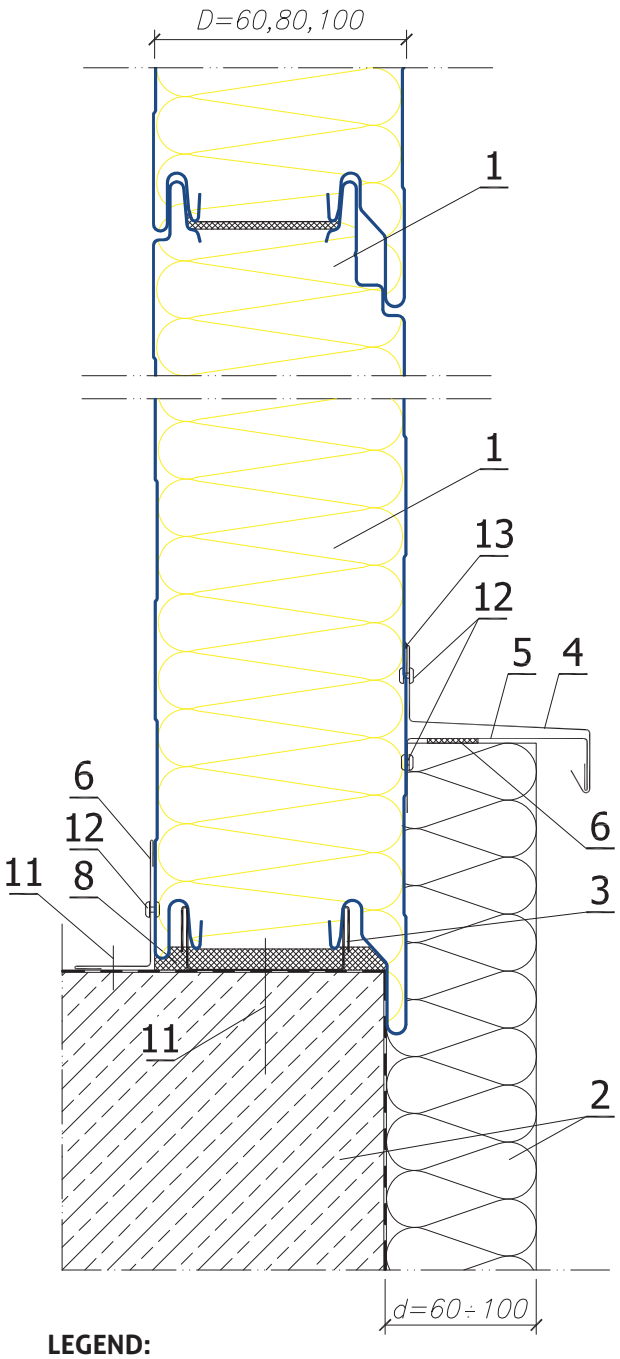


LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
3. Edge Z-bar **OB-39**
4. Inner corner flashing **OB-06**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
7. Self-drilling connector for sandwich panels
8. **PM1** spacer
9. Steel expansion joint for quick assembly
10. Tight blind rivet **4.8 x 9.5**

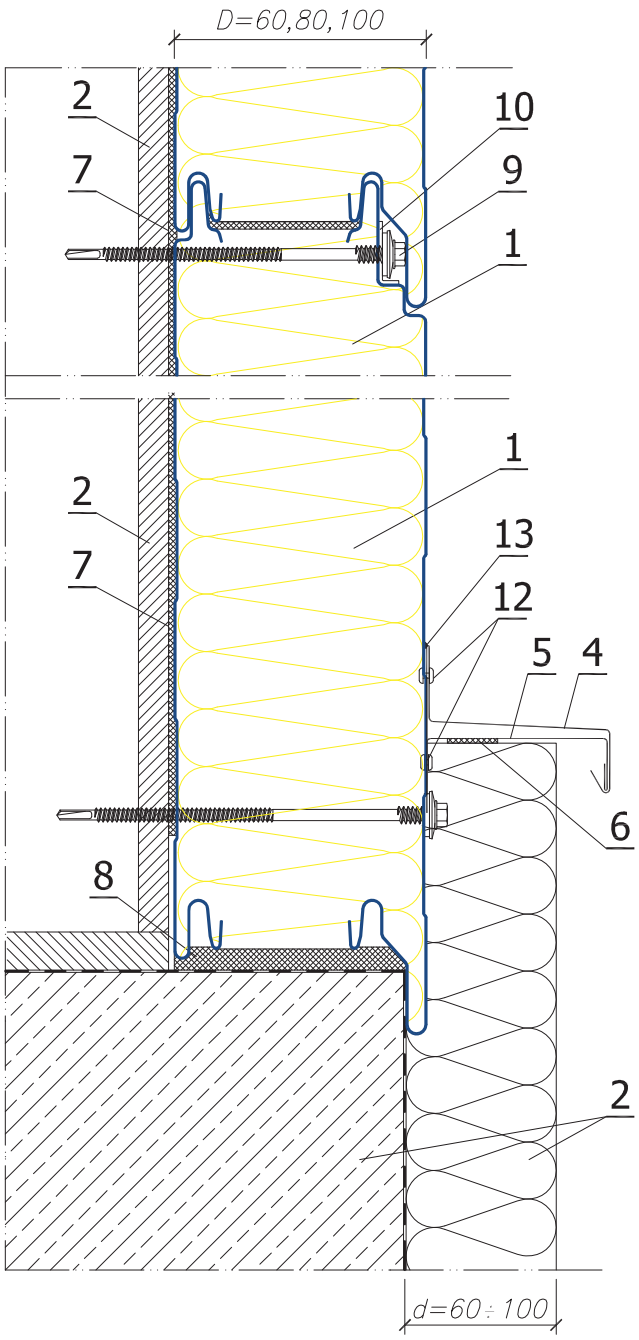
HORIZONTAL ARRANGEMENT of panels
Details of panel connection to grade beam
Variant III

Scale
1:3

In the span



On the support



LEGEND:

1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Structural elements acc. to detailed design and thermal insulation carried out after assembly of panel
3. Edge channel section **OB-40**
4. Drip edge **OB-15**
5. Rigid flashing **OB-15a**
6. Inner corner flashing **OB-06**
7. Polyethylene, self-adhesive sealing tape **(PES)**
8. Polyurethane caulking foam
9. Self-drilling connector for sandwich panels
10. **PM1** spacer
11. Steel expansion joint for quick assembly
12. Tight blind rivet **4.8 x 9.5**
13. Neutral silicone sealant

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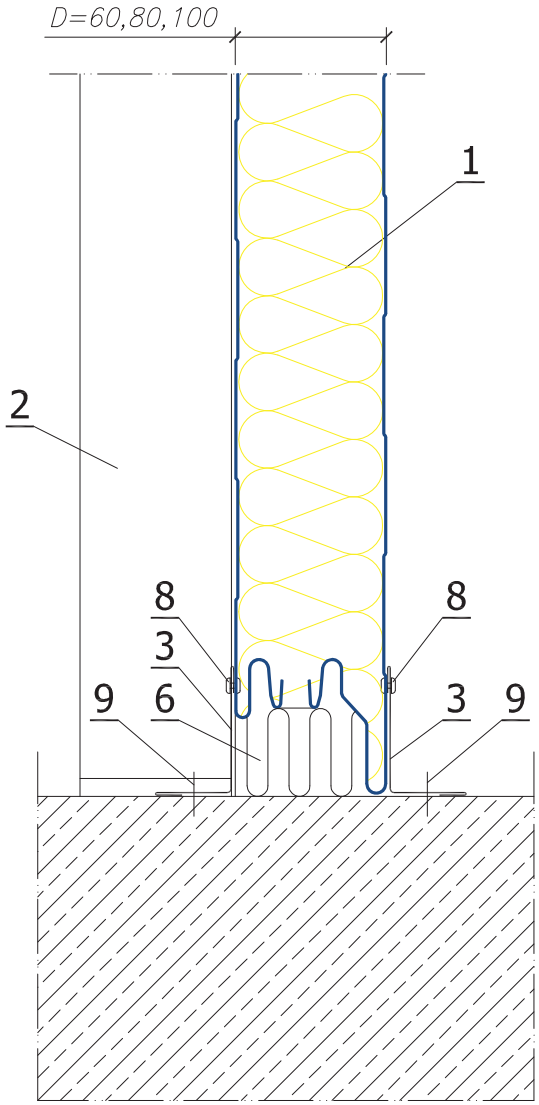
HORIZONTAL ARRANGEMENT of panels
Detail of panels connection to flooring

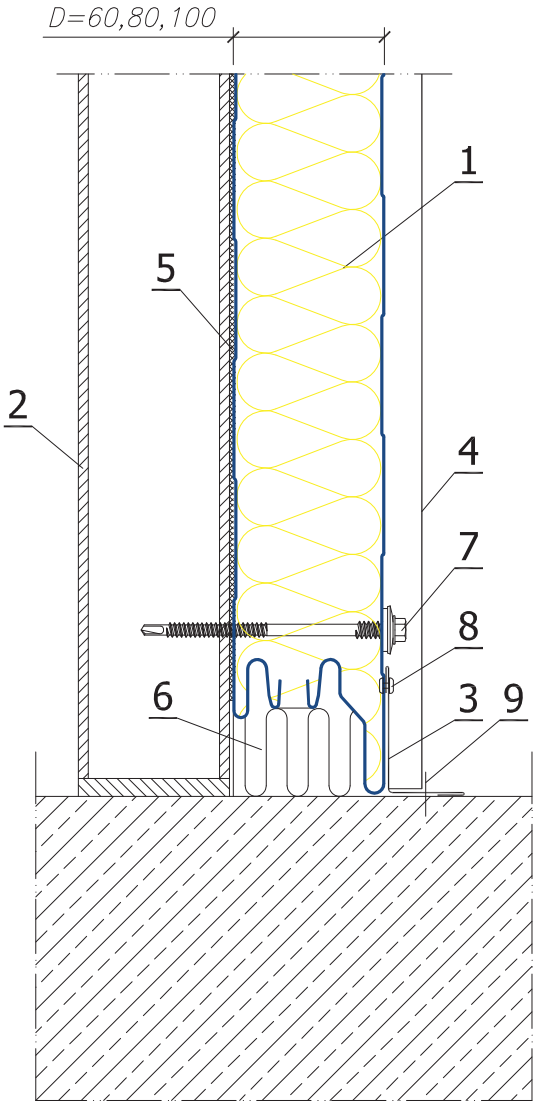
Scale
1:3

GÓR-STAL

In the span



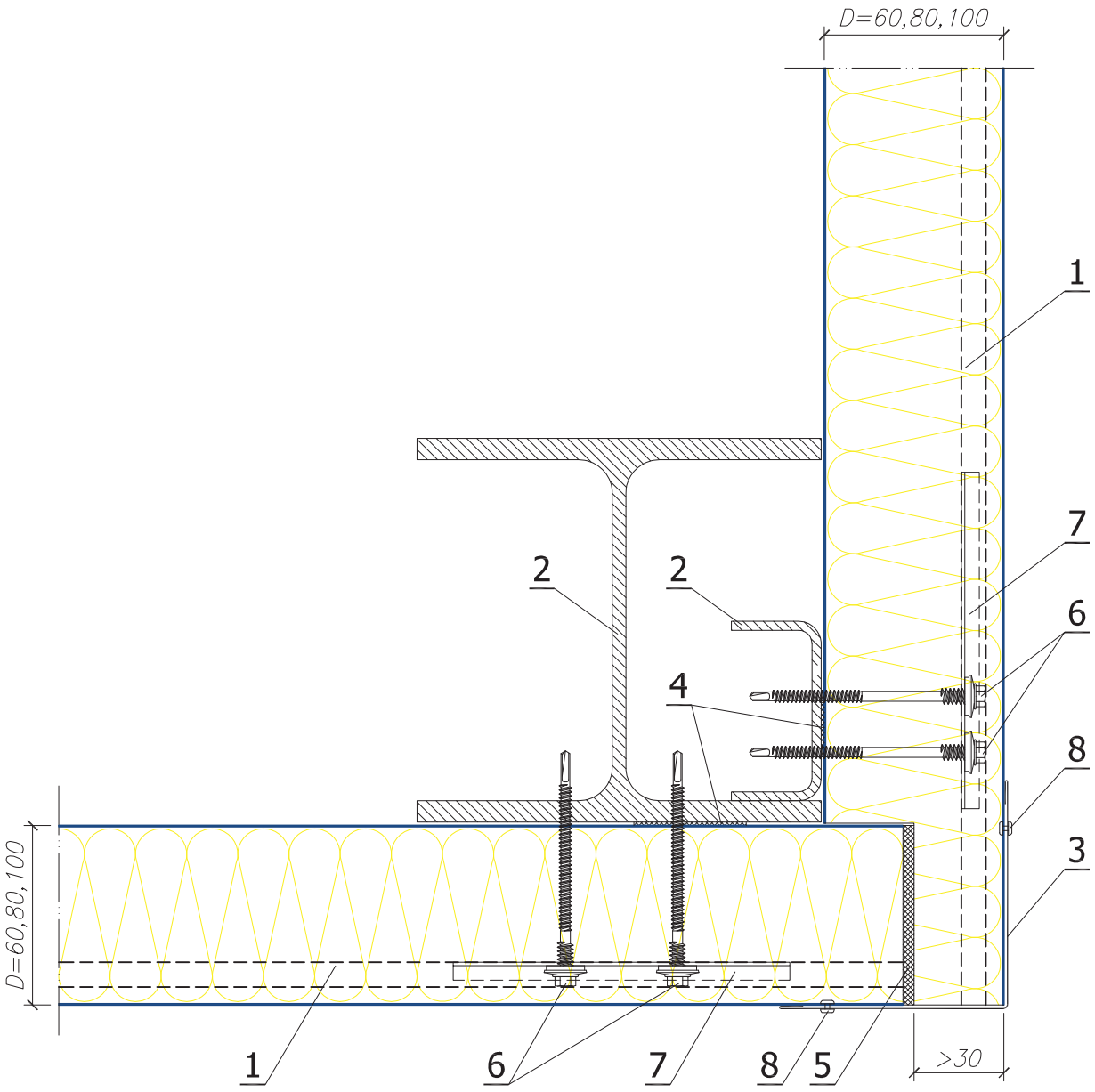
On the support



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel post acc. to structure design
3. Inner corner flashing **OB-06**
4. Covering flashing for panel junction
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Thermal insulation carried out on the fastening
7. Self-drilling connector for sandwich panels
8. Tight blind rivet **4.8 x 9.5**
9. Steel expansion joint for quick assembly

HORIZONTAL ARRANGEMENT of panels
Detail of panels' connection in a corner

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel post acc. to structure design
3. Outer corner flashing **OB-01**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Impregnated polyurethane seal **(PURS)** or caulking foam
6. Self-drilling connector for sandwich panels
7. **PM1** spacer
8. Tight blind rivet **4.8 x 9.5**

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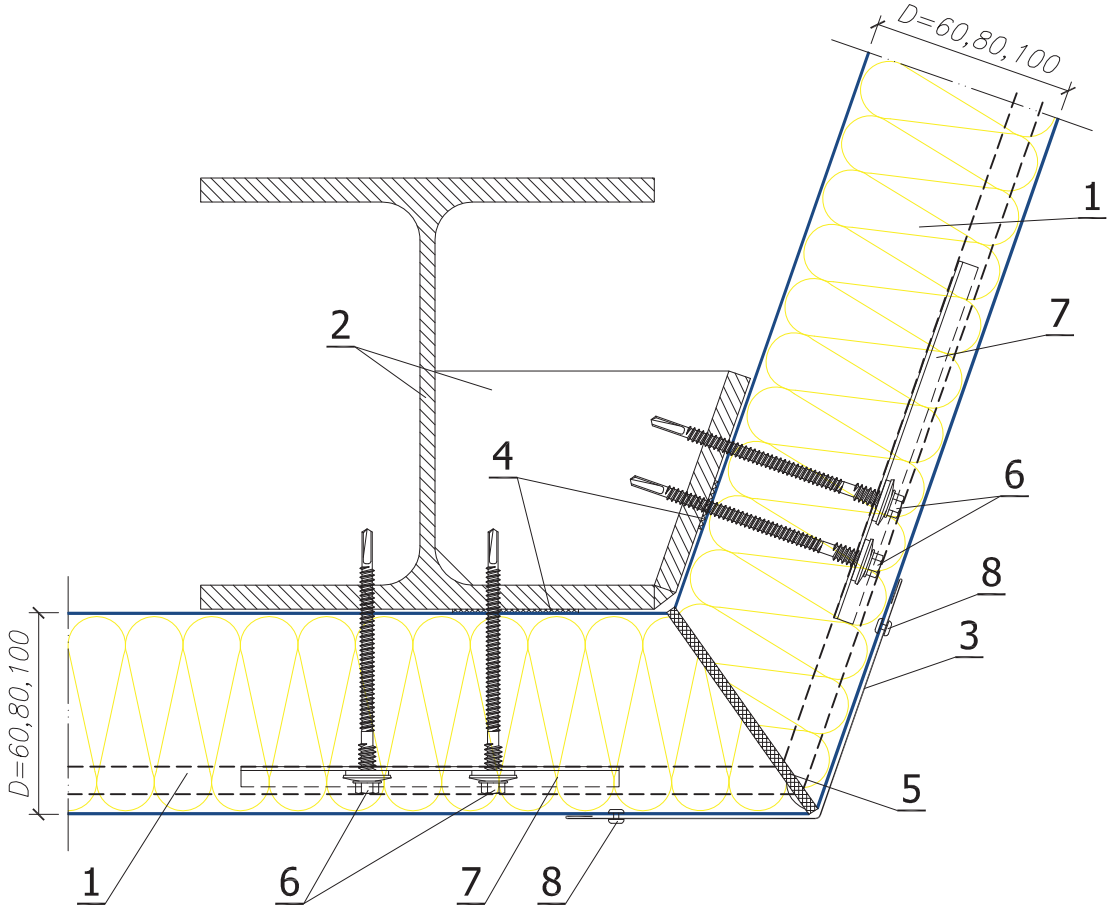
HORIZONTAL ARRANGEMENT of panels
Detail of panels' connection in an optional angle corner

Scale
1:3

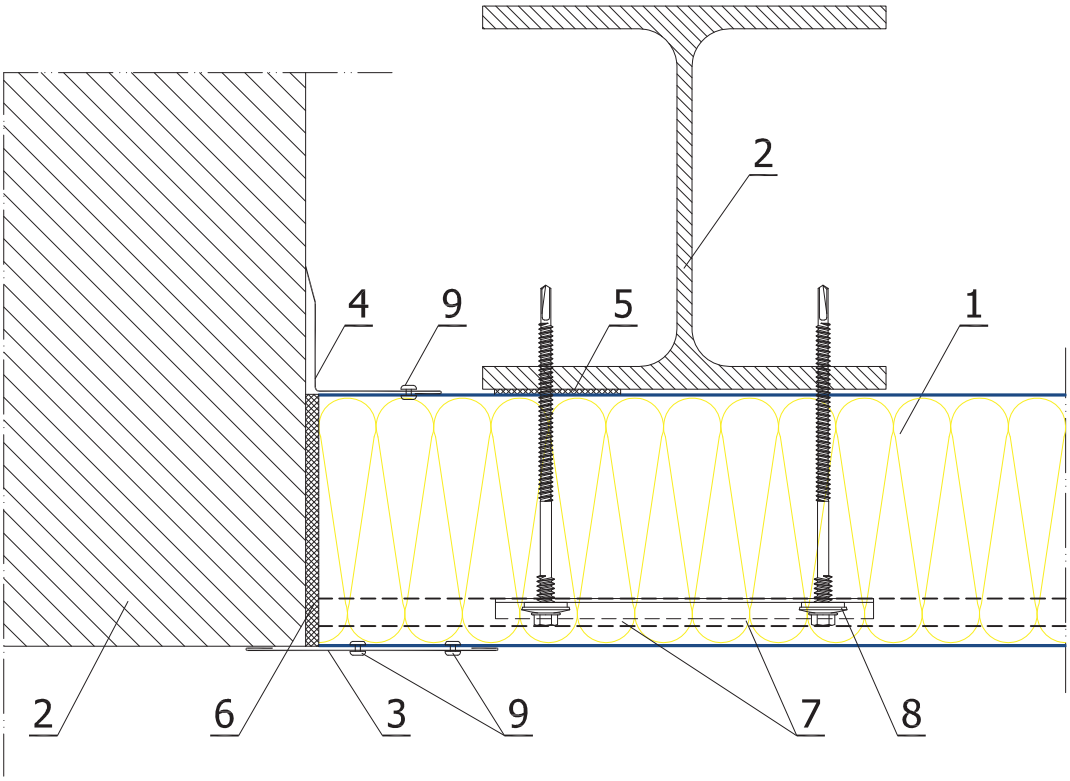
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel post acc. to structure design
3. Outer corner flashing **OB-01**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Impregnated polyurethane seal **(PURS)** or caulking foam
6. Self-drilling connector for sandwich panels
7. **PM1** spacer
8. Tight blind rivet **4.8 x 9.5**

HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to wall

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Wall and post acc. to structure design
3. Covering flashing **OB-18**
4. Inner corner flashing **OB-07**
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
7. Self-drilling connector for sandwich panels
8. PM1 spacer
9. Tight blind rivet **4.8 x 9.5**

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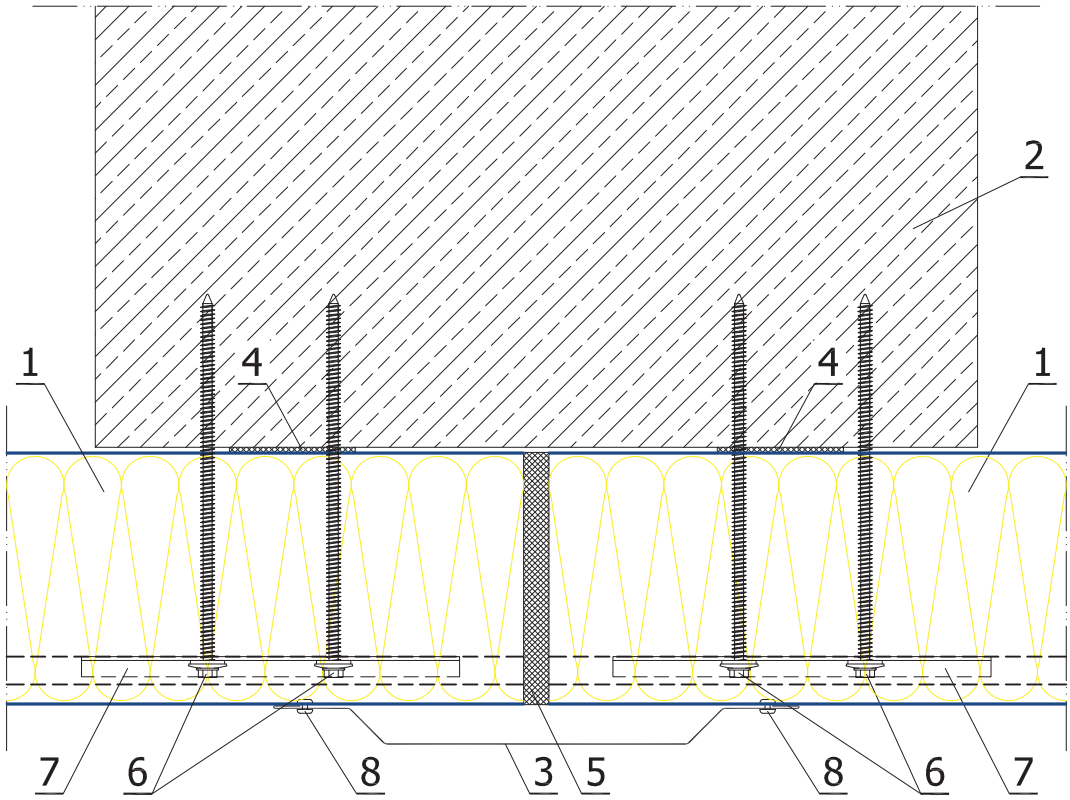
HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to reinforced concrete support

Scale
1:3

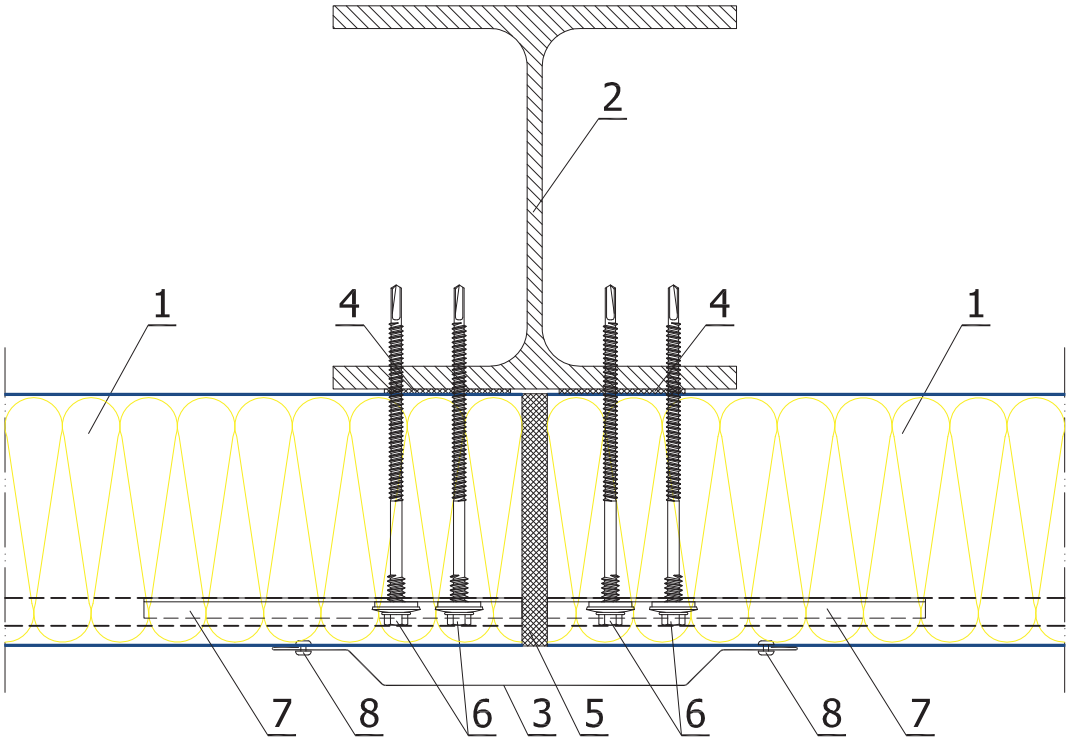
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Reinforced concrete post acc. to structure design
3. Covering flashing **OB-17**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
6. Connector for fastening of sandwich panels to concrete
7. **PM1** spacer
8. Tight blind rivet **4.8 x 9.5**

HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to edge support

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Post acc. to structure design
3. Covering flashing **OB-17**
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Impregnated polyurethane seal **(PURS)** or polyurethane caulking foam
6. Self-drilling connector for sandwich panels
7. **PM1** spacer
8. Tight blind rivet **4.8 x 9.5**

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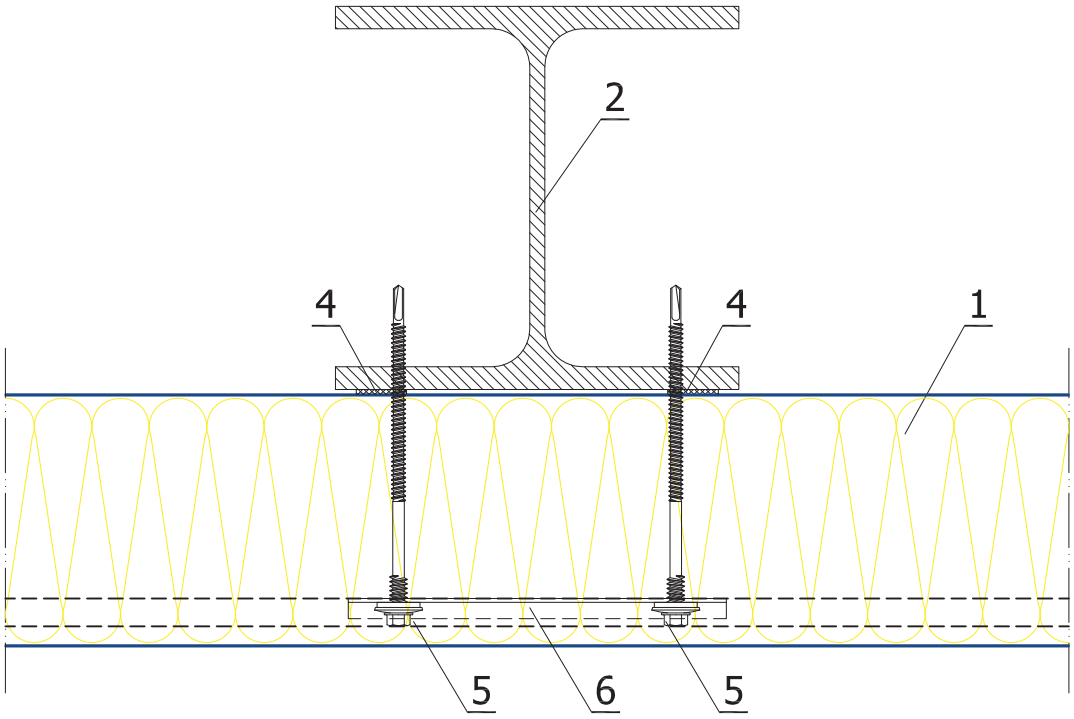
HORIZONTAL ARRANGEMENT of panels
Detail of panel connection to intermediate support

Scale
1:3

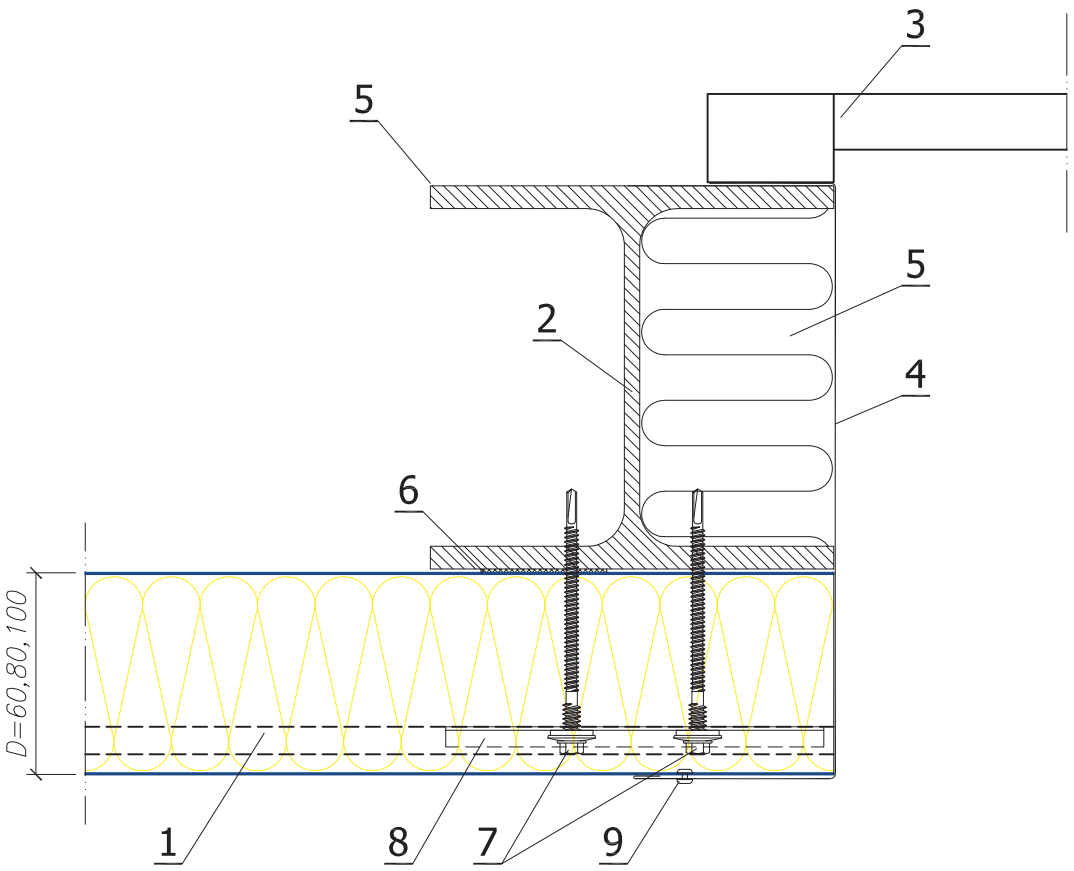
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Post acc. to structure design
3. Covering flashing
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Self-drilling connector for sandwich panels
6. Tight blind rivet **4.8 x 9.5**

HORIZONTAL ARRANGEMENT of panels
Detail of roll-up door post

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Steel post acc. to structure design
3. Industrial door
4. Individual door flashing
5. Thermal insulation on the fastening
6. Polyethylene, self-adhesive sealing tape **(PE)**
7. Self-drilling connector for sandwich panels
8. **PM1** spacer
9. Tight blind rivet **4.8 x 9.5**

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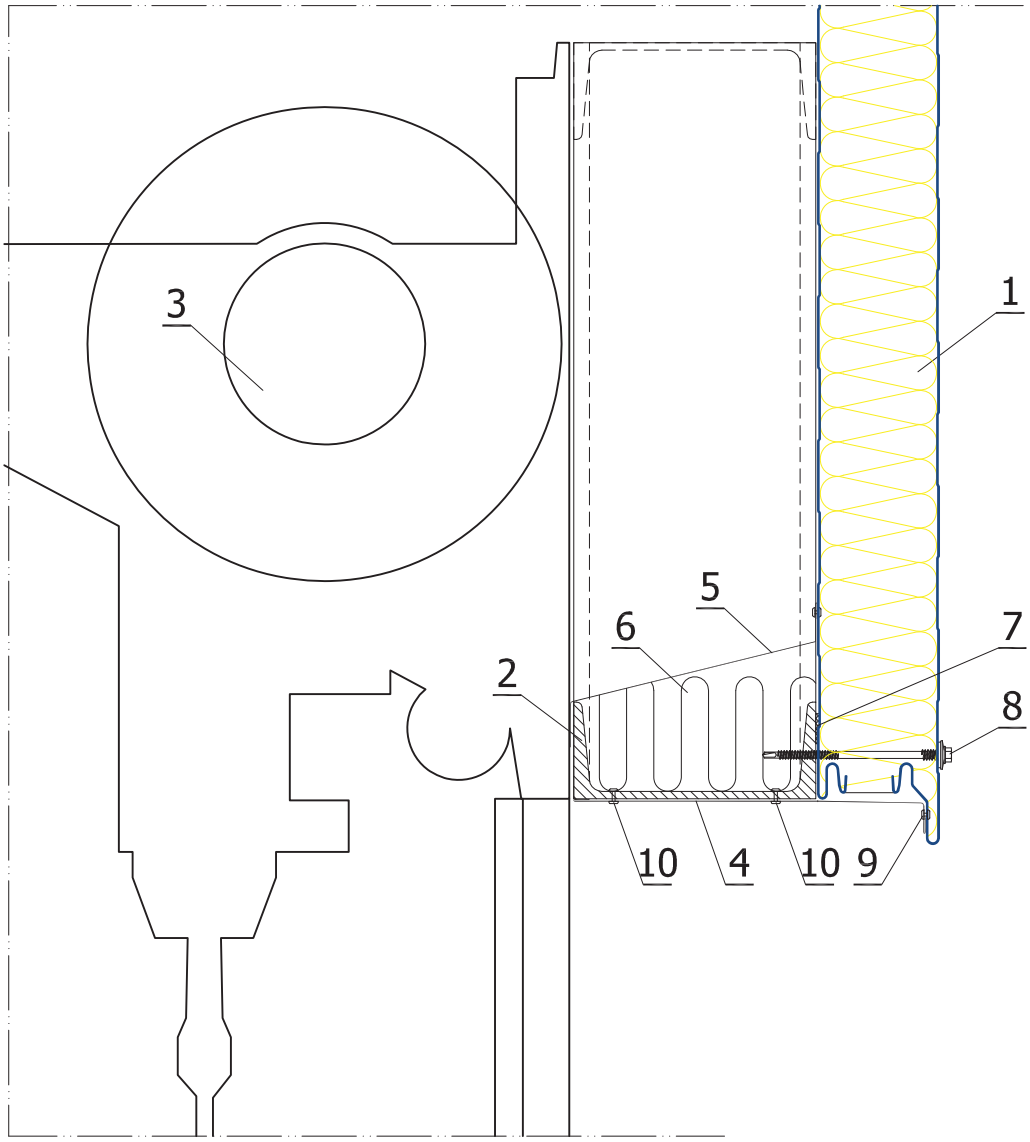
HORIZONTAL ARRANGEMENT of panels
Detail of roll-up door lintel

Scale
1:5

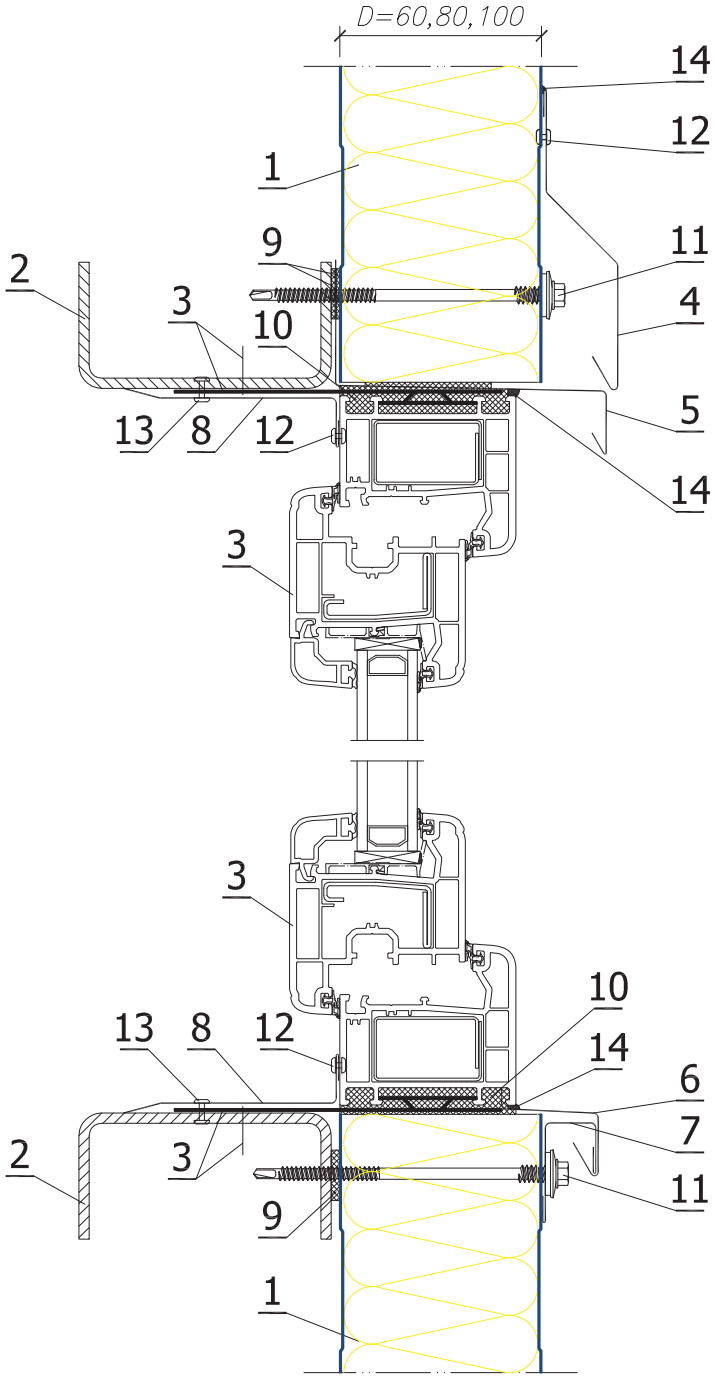
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Transom acc. to structure design
3. Industrial door
4. Individual covering flashing
5. Individual covering flashing
6. Thermal insulation on the fastening
7. Polyethylene, self-adhesive sealing tape **(PES)**
8. Self-drilling connector for sandwich panels
9. Tight blind rivet **4.8 x 9.5**
10. Blind rivet **4.8 x 15.1** (for the structure)

HORIZONTAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant I – profile

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Transom acc. to structure design
3. PVC or aluminium window with a holder and connector
4. Drip edge **OB-11** (option)
5. Drip edge **OB-13**
6. Cill **OB-37**
7. Rigid flashing **OB-16**
8. Individual inner corner
9. Polyethylene, self-adhesive sealing tape **(PES)**
10. Polyethylene caulking foam
11. Self-drilling connector for sandwich panels
12. Tight blind rivet **4.8 x 9.5**
13. Blind rivet **4.8 x 15.1** (for the structure)
14. Neutral silicone sealant

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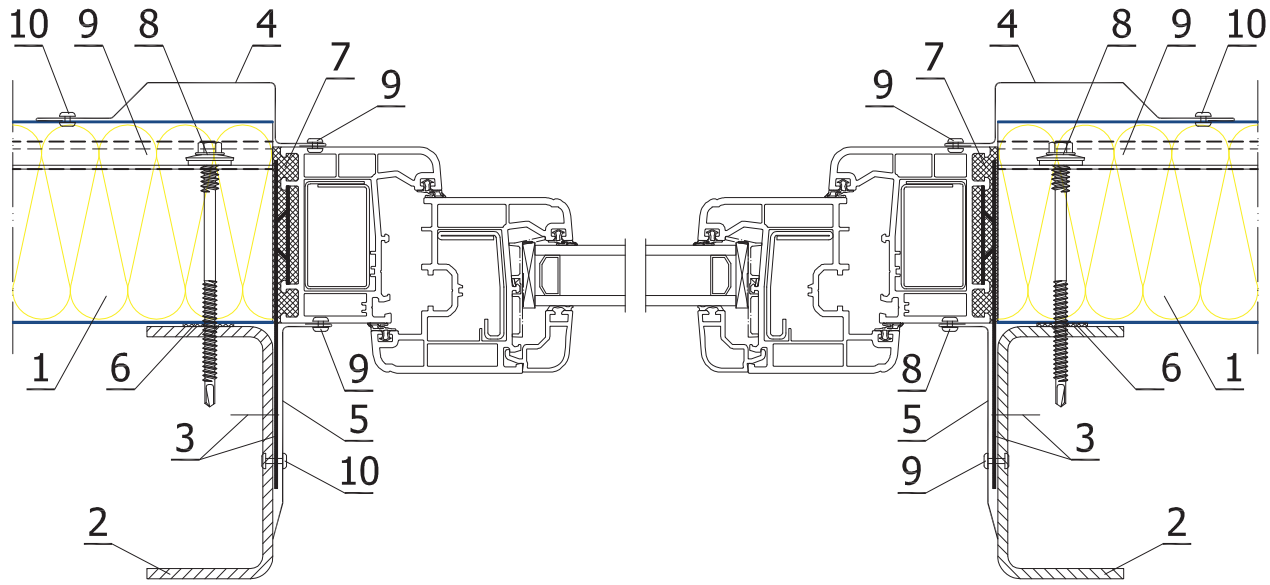
HORIZONTAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant I – cross-section

Scale
1:3

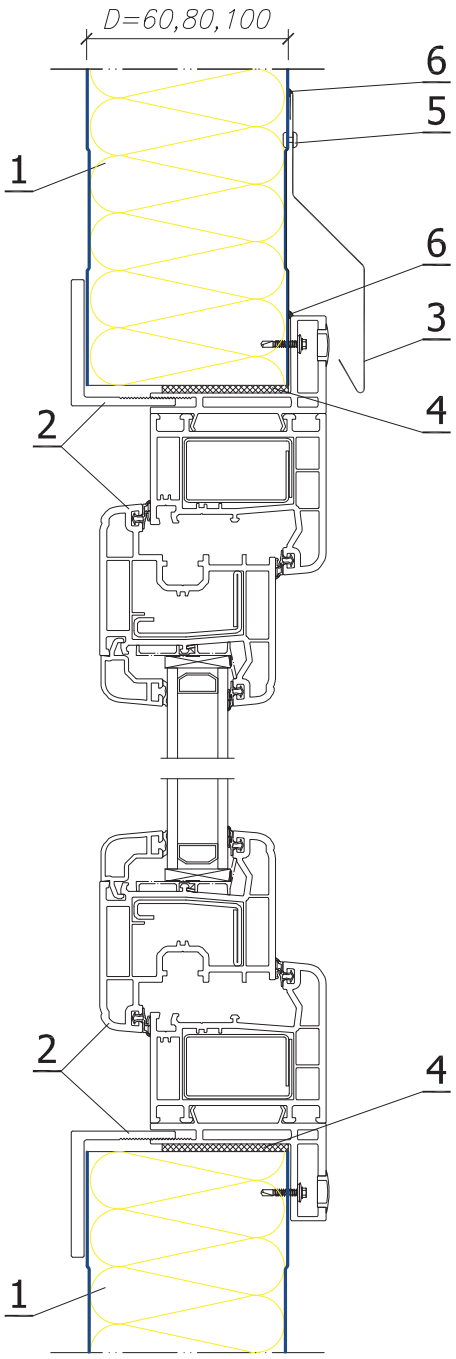
GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. Transom acc. to structure design
3. PVC or aluminium window with a holder and connector
4. Individual covering flashing
5. Individual inner corner
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Polyethylene caulking foam
8. Self-drilling connector for sandwich panels
9. **PM1** spacer
10. Tight blind rivet **4.8 x 9.5**
11. Blind rivet **4.8 x 15.1** (for the structure)

HORIZONTAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant II – profile

Scale
1:3



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR** wall panel
2. PVC or aluminium window with a fastening profile
3. Drip edge **OB-11** (option)
4. Impregnated polyurethane seal **(PURS)** or caulking foam
5. Tight blind rivet **4.8 x 9.5**
6. Neutral silicone sealant

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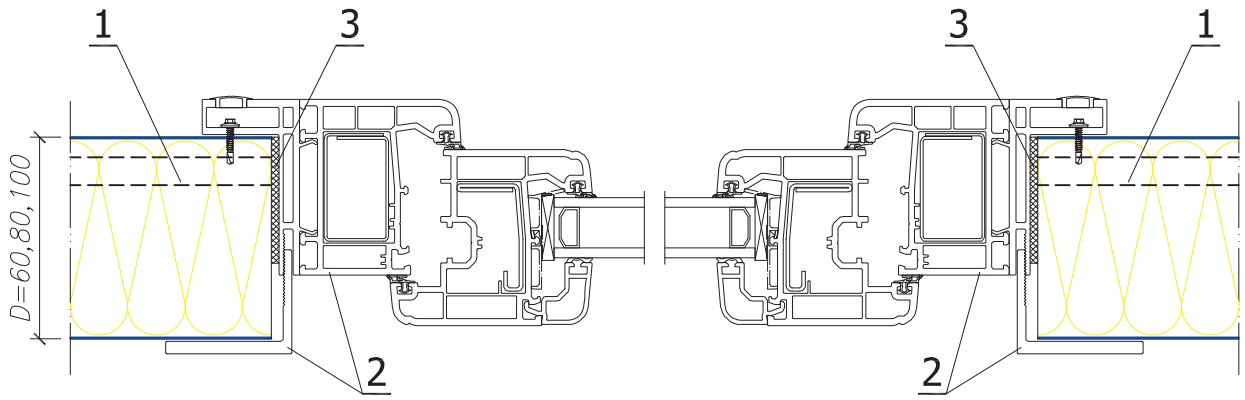
HORIZONTAL ARRANGEMENT of panels
Window assembly in sandwich panel
Variant II – cross-section

Scale
1:3

GÓR-STAL



LEGEND:
1. **GORLICKA U / GORLICKA U GS-PIR**wall panel
2. PVC or aluminium window with a fastening profile
3. Impregnated polyurethane seal **(PURS)** or caulking foam

APPLICATION

GORLICKA D / GORLICKA D GS-PIR roof panel is designed for roof covers. Panels can be fastened to wooden, steel or reinforced concrete structures with use of connectors. Recommended minimum gradient of roof slope is 3° (5,2%), for one panel cover (< 16 m), without skylights and 5° (8,7%) for cover made of panels connected along their length. Panels can also be used as the external cladding of walls.

PHYSICAL PROPERTIES

GORLICKA U / GORLICKA U GS-PIR wall panel is produced in the five thicknesses of the core: **40, 60 , 80, 100, 120** and **160 mm.** Panels facing is made of double-sided galvanized steel sheets, 0.50 mm thick as per **PN-EN 10326:2006**, with organic polyester coating **25µm** thick. Thermal insulation core of the panels is a rigid polyurethane **(PUR)** or polyisocyanurate **(PIR)** foam with a thickness of **40 kg/m³**. The heat conductivity calculation value of the foam is: **λ= 0.022 W/m*K**. Modular width of plates is **1000 mm.** The standard panel length is between **2.0 to 12 m.** On special request we deliver panels shorter than **2 m** and longer than **12 m**, with a maximum length of **16.5 meters**. Tightness of panel joints is provided by impregnated polyurethane seals applied in the manufacturing process.

Thickness [mm]	Weight [kg/m²]	Modular width [mm]	Length: typical/available [m]	Lining standard RAL colours
40	9,84	1000	2,0 - 12,0 / 16,5 **The minimum length of the roof panel with undercut** **Thickness [mm]** / **Length [m]** ≥ 80 / 2,0 60 / 2,5 40 / 3,0	9002, 9010, 9006 9007, 5010, 1015 3000, 6029, 7016 7035, 8017
60	10,64			
80	11,44			
100	12,24			
120	13,04			
160	14,64			

Thermal insulation of panels depends on the thickness of the core characterized **by U** thermal coefficient, taking into account the impact of linear thermal bridge appearing on panel joint and point thermal bridge appearing because of connectors. **Acoustic parameters** were determined on the basis of **EN ISO 10140-3**. Coldstore plates can be used as partitions of the requirements of sound insulation no greater than those specified below. **Resistance to chemical corrosion** - **GORLICKA** sandwich panels can be used in environments with atmosphere corrosiveness category **C1, C2, C3** according to **EN ISO 12944-2**.

TECHNICAL PARAMETERS OF PUR CORE

Thickness [mm]	Heat-transfer coefficient U [W/m²*K]	Acoustic insulation	Reaction to fire	Fire resistance	External fire performance
	PN-EN 14509	**EN ISO 717-1**	**PN-EN 13501-1**	**PN-EN 13501-2**	**PN-EN 13501-5**
40	0,50	R_W = 24 dB R_{a1} = 22 dB R_{a2} = 20 dB	B-s2, dO	NPD	B_{ROOF}(t1,t2,t3)
60	0,35				
80	0,27			REI15/RE30/R30 Conditions by classification	
100	0,22				
120	0,18				
160	0,14				

TECHNICAL PARAMETERS OF PIR CORE

Thickness [mm]	Heat-transfer coefficient U [W/m²*K]	Acoustic insulation	Reaction to fire	Fire resistance	External fire performance
	PN-EN 14509	**EN ISO 717-1**	**PN-EN 13501-1**	**PN-EN 13501-2**	**PN-EN 13501-5**
40	0,50	R_W = 24 dB R_{a1} = 22 dB R_{a2} = 20 dB	B-s1, dO	NPD	B_{ROOF}(t1,t2,t3)
60	0,35				
80	0,27			REI30/RE30/R30 Conditions by classification	
100	0,22				
120	0,18				
160	0,14				

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Manufacturing programme for **Gorlicka D/Gorlicka D GS-PIR** panel:
Panel thicknesses
Profiles of outer and inner facing

Scale
1:10
1:1

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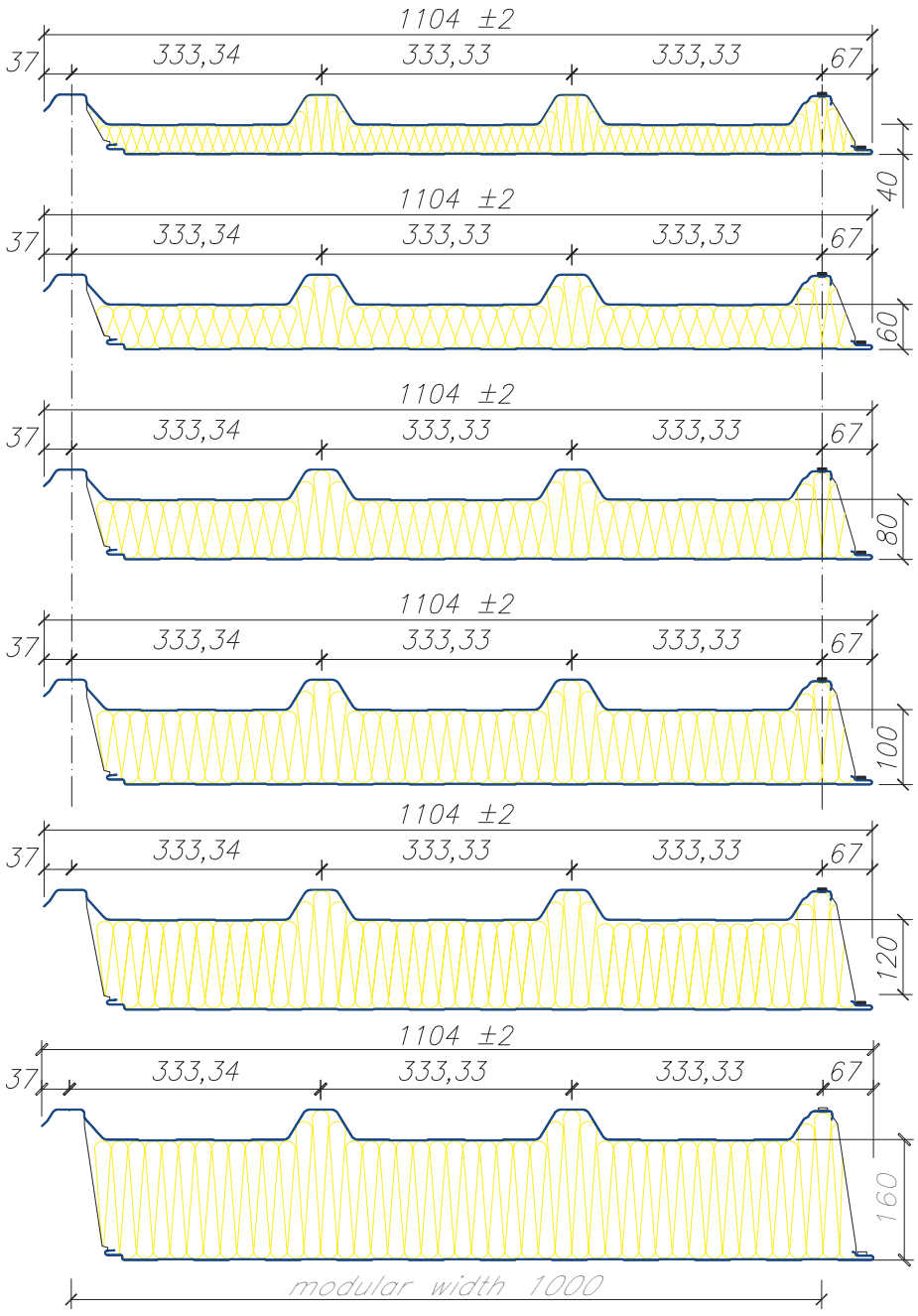
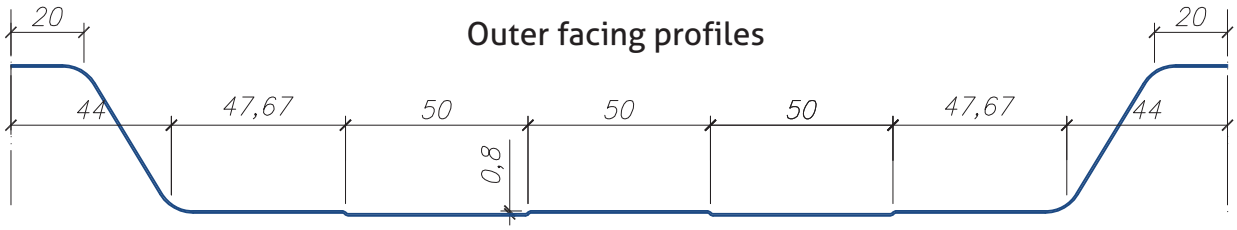
Panel thickness



40 mm
60 mm
80 mm
100 mm
120 mm
160 mm

Trapezoidal

Outer facing profiles



Inner facing profiles

Linear

Smooth

LOAD SPAN TABLES

Table of allowed loads for GORLICKA D wall sandwich panel with 0.5 mm facing in bright colours, mounted as a multi-span element, in direction to support (pressure).

Panel thickness	The load due to:	The maximum load [kN/m²] 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
40	SGN (q_d)	3,344	2,395	1,865	1,331	0,843	0,562	0,378	0,253	-	-	-
	SGU (q_k)	1,663	1,143	0,828	0,617	0,467	0,356	0,272	0,206	-	-	-
60	SGN (q_d)	4,944	3,533	2,744	2,129	1,348	0,908	0,636	0,452	0,318	-	-
	SGU (q_k)	2,620	1,830	1,356	1,040	0,814	0,645	0,514	0,411	0,329	-	-
80	SGN (q_d)	5,553	4,018	3,130	2,553	1,918	1,292	0,910	0,660	0,486	0,352	-
	SGU (q_k)	3,583	2,530	1,899	1,478	1,117	0,950	0,775	0,636	0,523	0,432	-
100	SGN (q_d)	5,868	4,242	3,301	2,690	2,263	1,713	1,207	0,879	0,656	0,494	0,366
	SGU (q_k)	4,552	3,237	2,451	1,926	1,550	1,267	1,047	0,872	0,729	0,612	0,515
120	SGN (q_d)	5,860	4,231	3,286	2,674	2,246	1,930	1,527	1,114	0,833	0,634	0,485
	SGU (q_k)	5,525	3,950	3,008	2,380	1,929	1,591	1,327	1,116	0,944	0,802	0,683

Table of allowed loads for GORLICKA D wall sandwich panel with 0.5 mm facing in bright colours, mounted as a multi-span element, in direction from support (suction).

Panel thickness	The load due to:	The maximum load [kN/m²] 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
40	SGN (q_d)	1,835	1,365	1,092	0,913	0,785	0,655	0,494	0,385	-	-	-
	SGU (q_k)	1,511	1,122	0,896	0,747	0,641	0,562	0,501	0,438	-	-	-
60	SGN (q_d)	1,792	1,330	1,065	0,891	0,768	0,675	0,603	0,545	0,455	-	-
	SGU (q_k)	1,484	1,099	0,878	0,733	0,630	0,553	0,493	0,445	0,406	-	-
80	SGN (q_d)	1,758	1,300	1,040	0,871	0,752	0,662	0,592	0,535	0,474	0,382	-
	SGU (q_k)	1,463	1,080	0,862	0,720	0,620	0,545	0,486	0,439	0,401	0,368	-
100	SGN (q_d)	1,730	1,274	1,018	0,853	0,736	0,649	0,581	0,526	0,481	0,443	0,400
	SGU (q_k)	1,445	1,064	0,848	0,708	0,610	0,536	0,479	0,433	0,396	0,364	0,337
120	SGN (q_d)	1,706	1,251	0,997	0,835	0,722	0,637	0,571	0,518	0,474	0,437	0,406
	SGU (q_k)	1,431	1,049	0,835	0,697	0,600	0,528	0,472	0,428	0,391	0,360	0,333

Load tables are prepared according to PN-EN 14 509 for panels with linings in bright colors and for internal temperature T = 20°C, which are fixed with three screws without calotte. Deflection condition was adopted to L/200 (included creep and dead weight of the panel) in the case of different sheet thickness, temperature, or dark colors lining it is necessary to perform separate calculations. The minimum width of the support 40/60 mm. A detailed list of loads is available on the website.

PACKING AND SHIPPING

GORLICKA 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]	40	60	80	100	120	160
Maximum number of panels in	14	11	9	8	7	6

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Selected details of cladding made of GORLICKA D / GORLICKA D GS-PIR sandwich panels

Detail of cam-lock and panels' connection	80
Detail of panels' fastening	81
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Detail of panel connection to reinforced concrete or masonry wall	92
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Detail of skylight in roof ridge	94
Detail of ventilation duct (max. ø = 250) penetration through roof	95

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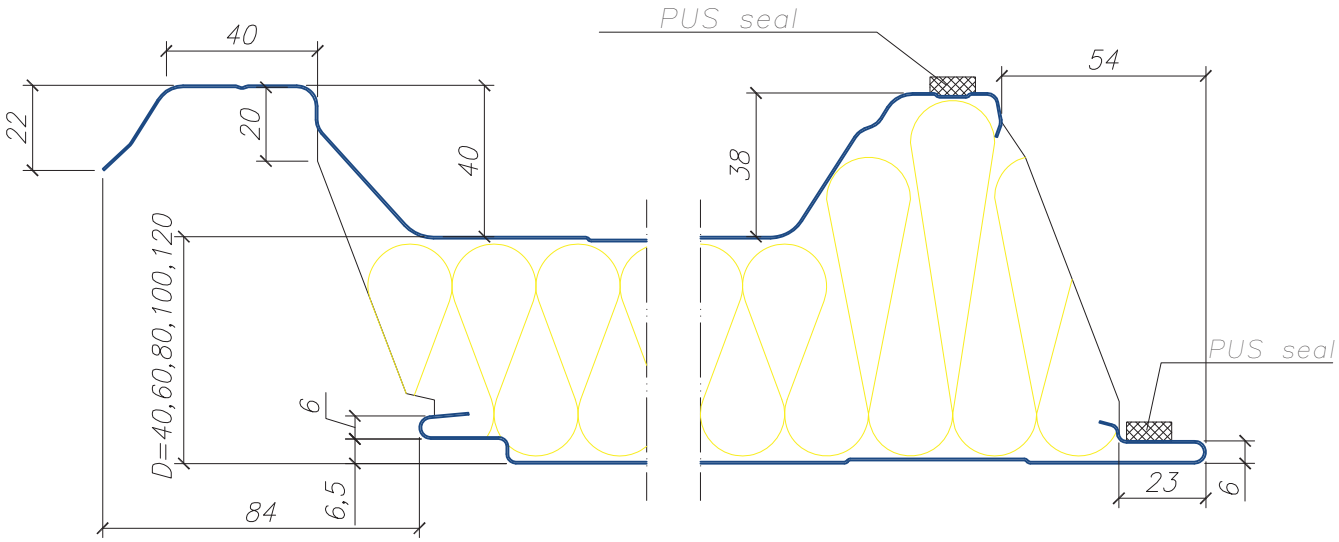
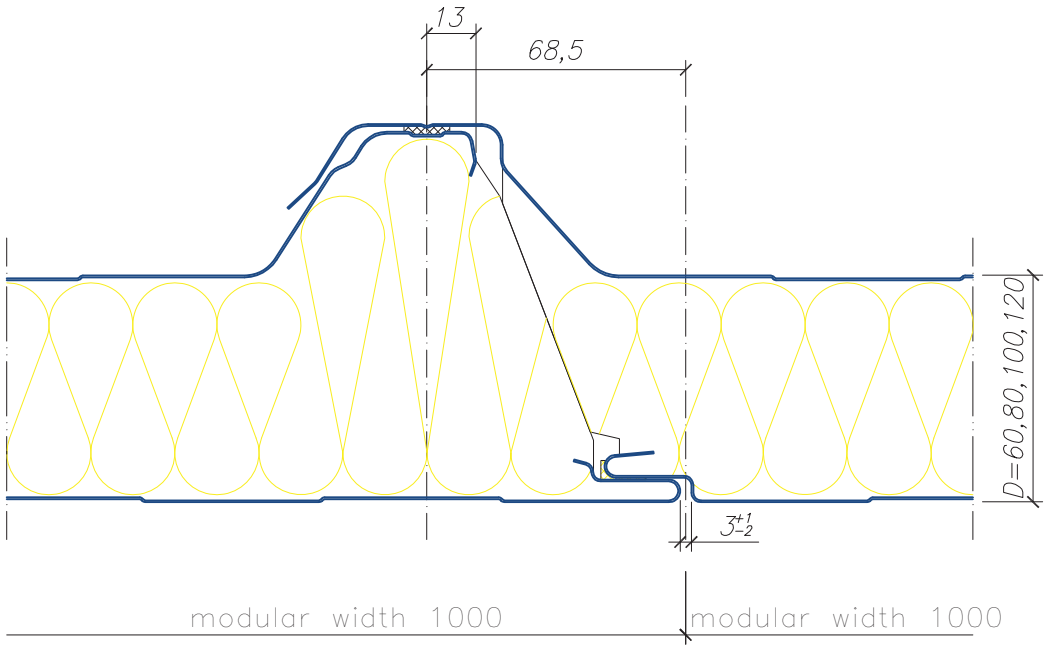
Detail of cam-lock and panels' connection

Scale
1:2

Shape of cam-lock for panels



Detail of panels' connection



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Details of **GORLICKA D / GORLICKA D GS-PIR** panels' connection

Scale 1:3

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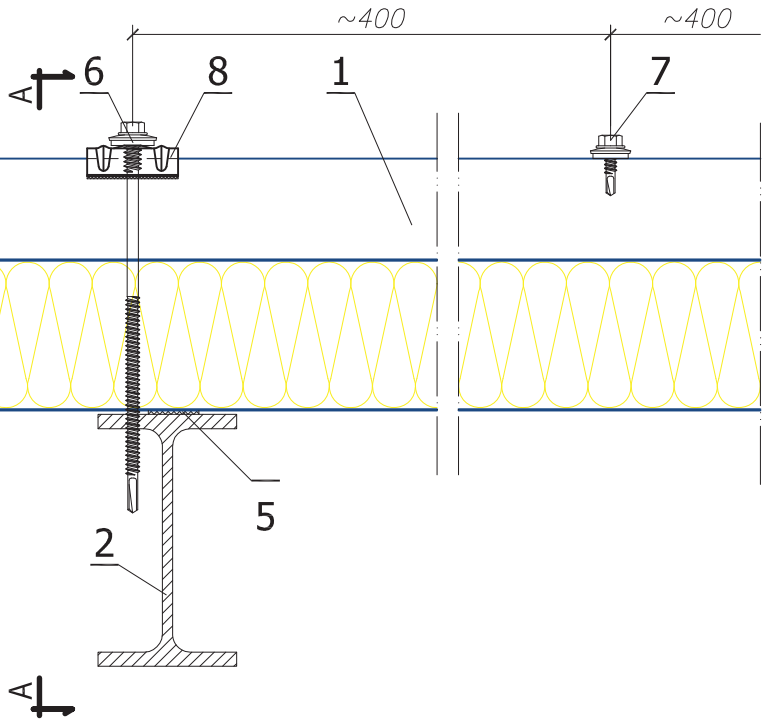
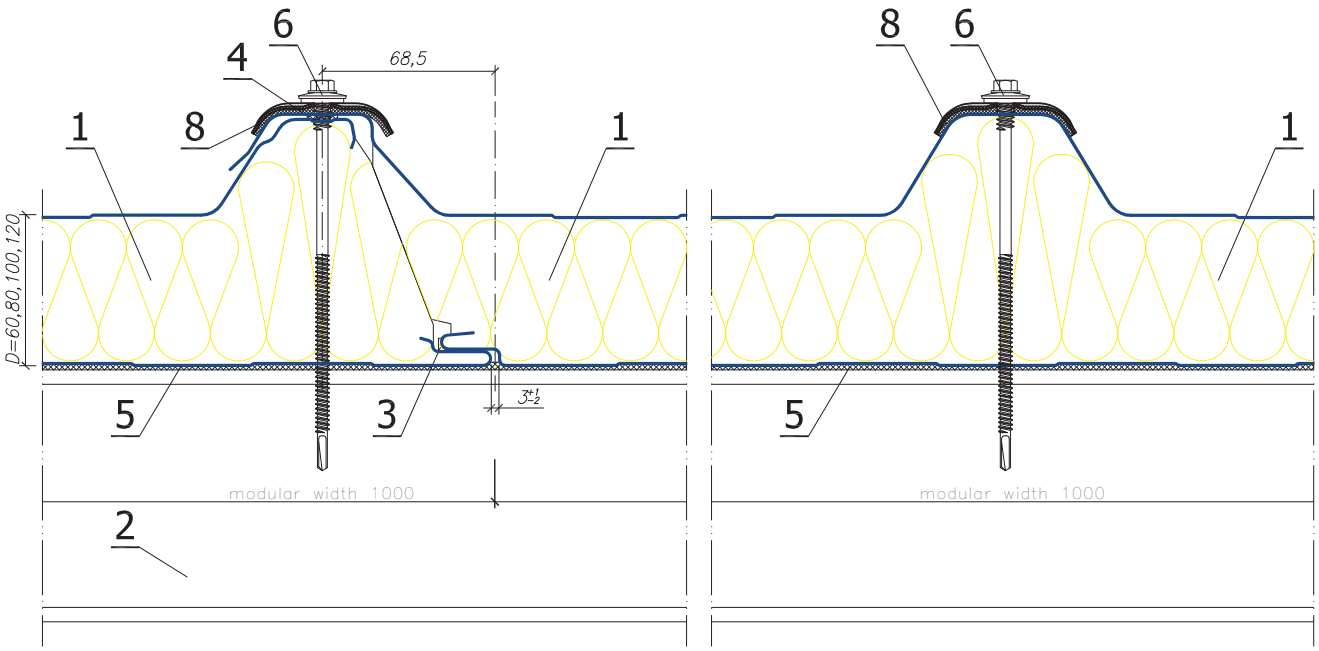


A-A cross-section



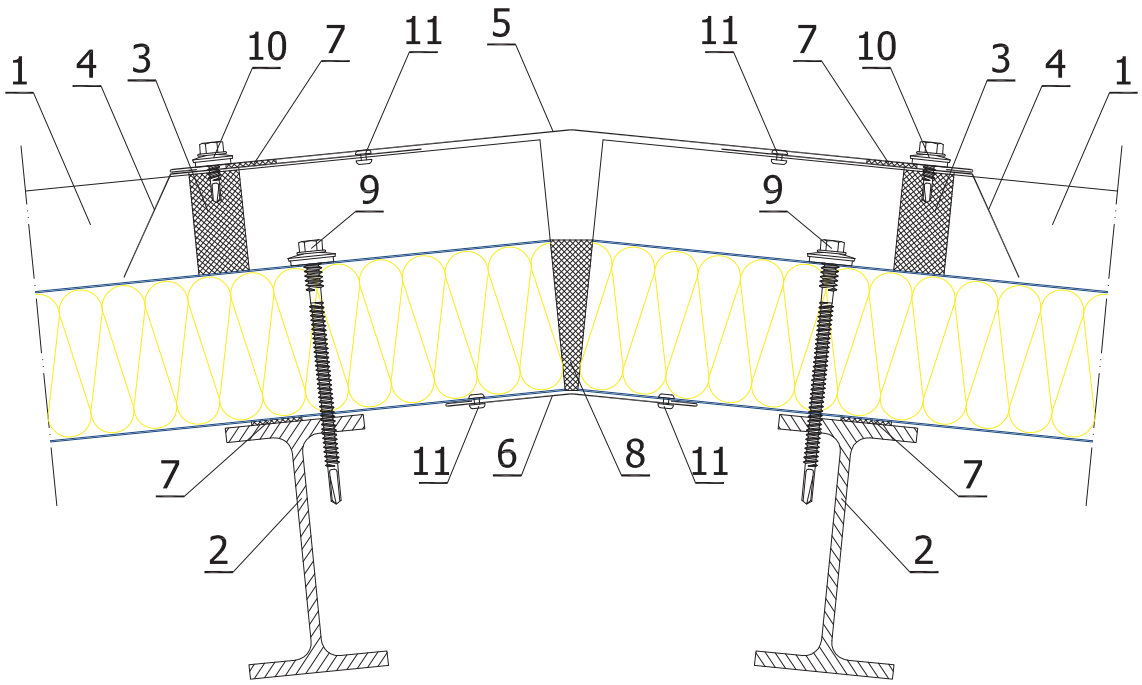
LEGEND:

1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Purlin acc. to structure design
3. Factory-installed **PUS** seal
4. **PUS** seal applied on the fastening
5. Polyethylene, self-adhesive sealing tape **(PES)**
6. Self-drilling connector for sandwich panels
7. Self-drilling connector for steel sheet
8. Calotte - spacer

NOTE: Every panel should be fastened to the structure with two connectors, and with three connectors on edges

Detail of panels' connection in roof ridge

Scale
1:3



LEGEND:
1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Purlin acc. to structure design
3. Profiled seal **(PE)**
4. Profiled flashing **OB-28**
5. Top roof ridge flashing **OB-22**
6. Bottom roof ridge flashing **OB-23**
7. Polyethylene, self-adhesive sealing tape **(PES)**
8. Polyurethane caulking foam
9. Self-drilling connector for sandwich panels
10. Self-drilling connector for steel sheet
11. Tight blind rivet **4.8 x 9.5**

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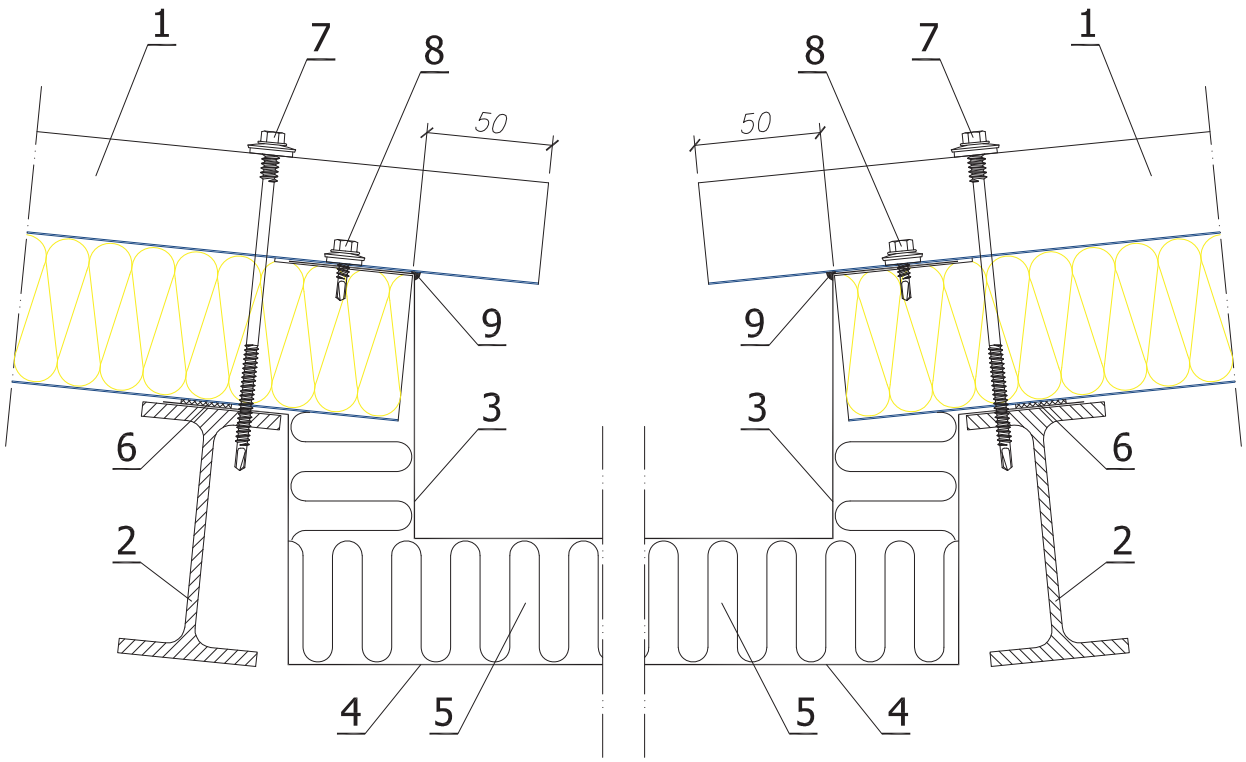
Detail of water evacuation in a valley

Scale
1:3

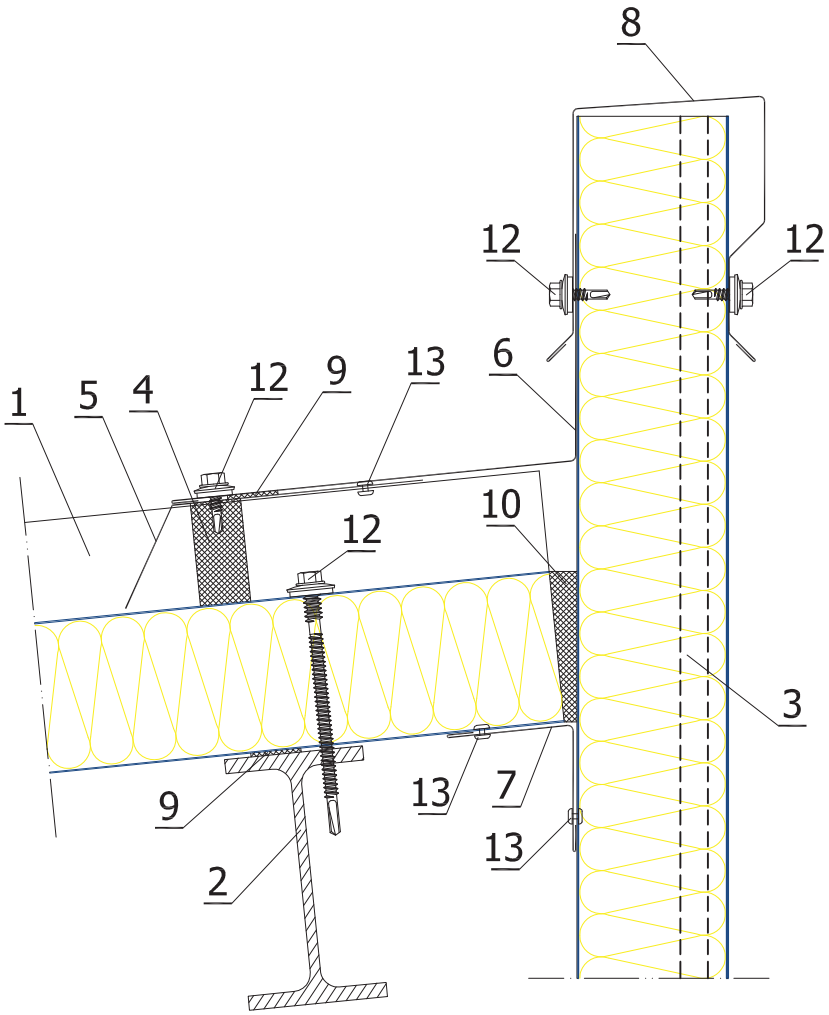
GÓR-STAL



LEGEND:
1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Purlin acc. to structure design
3. Individual inner gutter profile
4. Individual outer gutter profile
5. Thermal insulation carried out on the fastening
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Self-drilling connector for sandwich panels
8. Self-drilling connector for steel sheet
9. Butyl sealing compound

Detail of roof at attic
Slope profile

Scale
1:3



LEGEND:
1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Purlin acc. to structure design
3. **GORLICKA U/GORLICKA U GS-PIR** wall panel
4. Profiled seal **(PE)**
5. Profiled flashing **OB-28**
6. Roof covering flashing **OB-29**
7. Inner corner flashing **OB-02**
8. Attic flashing **OB-34**
9. Polyethylene, self-adhesive sealing tape **(PES)**
10. Polyurethane caulking foam
11. Self-drilling connector for sandwich panels
12. Self-drilling connector for steel sheet
13. Tight blind rivet **4.8 x 9.5**

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Detail of roof at attic
Slope cross-section

Scale
1:3

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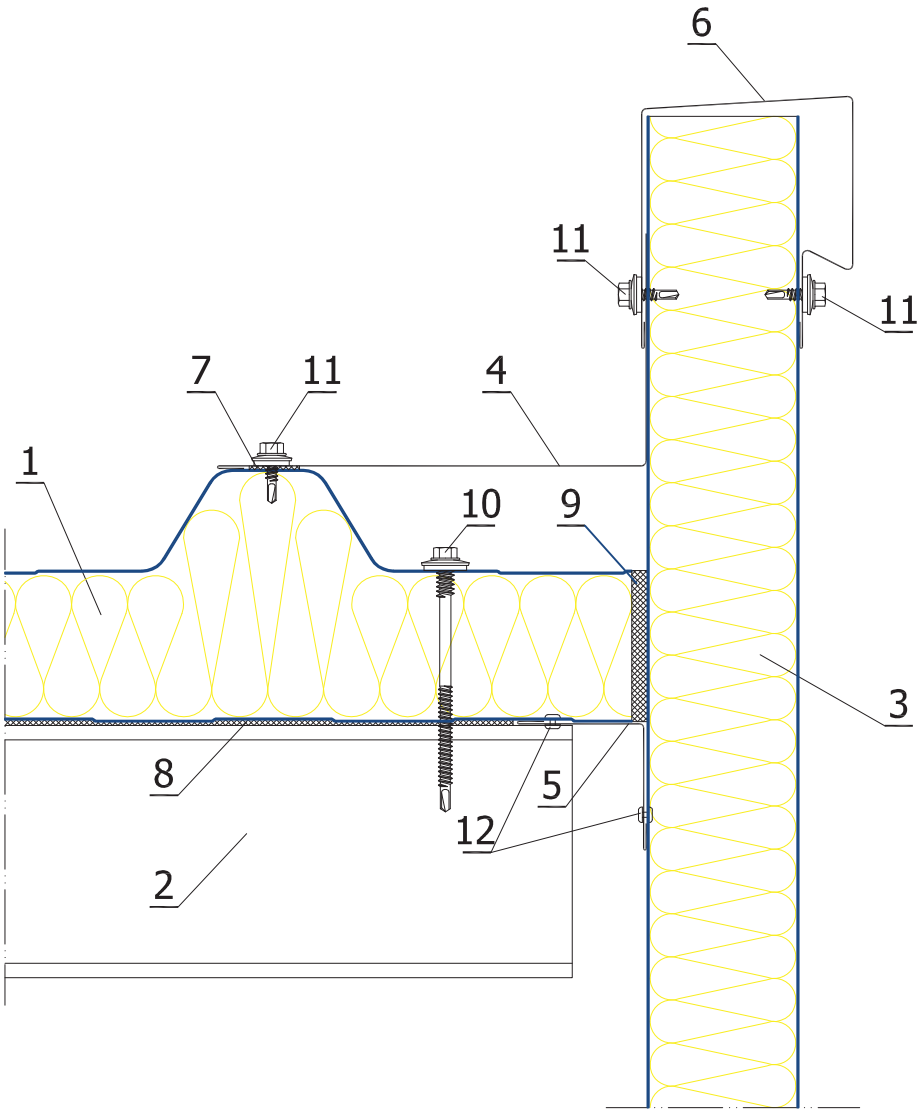
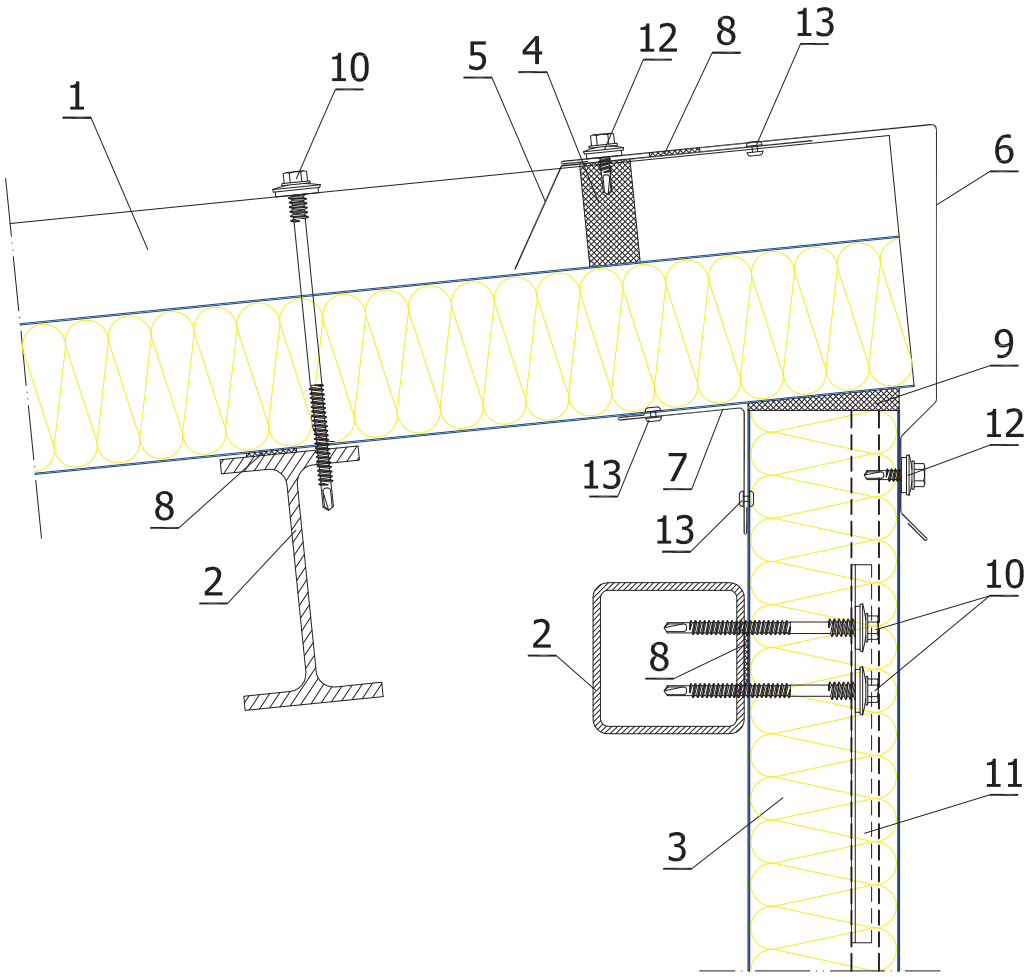


LEGEND:
1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Purlin acc. to structure design
3. **GORLICKA S/GORLICKA S GS-PIR** wall panel
4. Roof covering flashing **OB-29**
5. Inner corner flashing **OB-02**
6. Attic flashing **OB-35**
7. Butyl sealing tape
8. Polyethylene, self-adhesive sealing tape **(PES)**
9. Polyurethane caulking foam
10. Self-drilling connector for sandwich panels
11. Self-drilling connector for steel sheet
12. Tight blind rivet **4.8 x 9.5**

Detail of connection to wall in monopitch roof
Variant I

Scale
1:3



LEGEND:
1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Structure acc. to structure design
3. **GORLICKA U/GORLICKA U GS-PIR** wall panel
4. Profiled seal **(PE)**
5. Profiled flashing **OB-28**
6. Top flashing **OB-32**
7. Inner corner flashing **OB-02**
8. Polyethylene, self-adhesive sealing tape **(PES)**
9. Polyurethane caulking foam
10. Self-drilling connector for sandwich panels
11. **PM1** spacer
12. Self-drilling connector for steel sheet
13. Tight blind rivet **4.8 x 9.5**

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Detail of connection to wall in monopitch roof
Variant II

Scale
1:3

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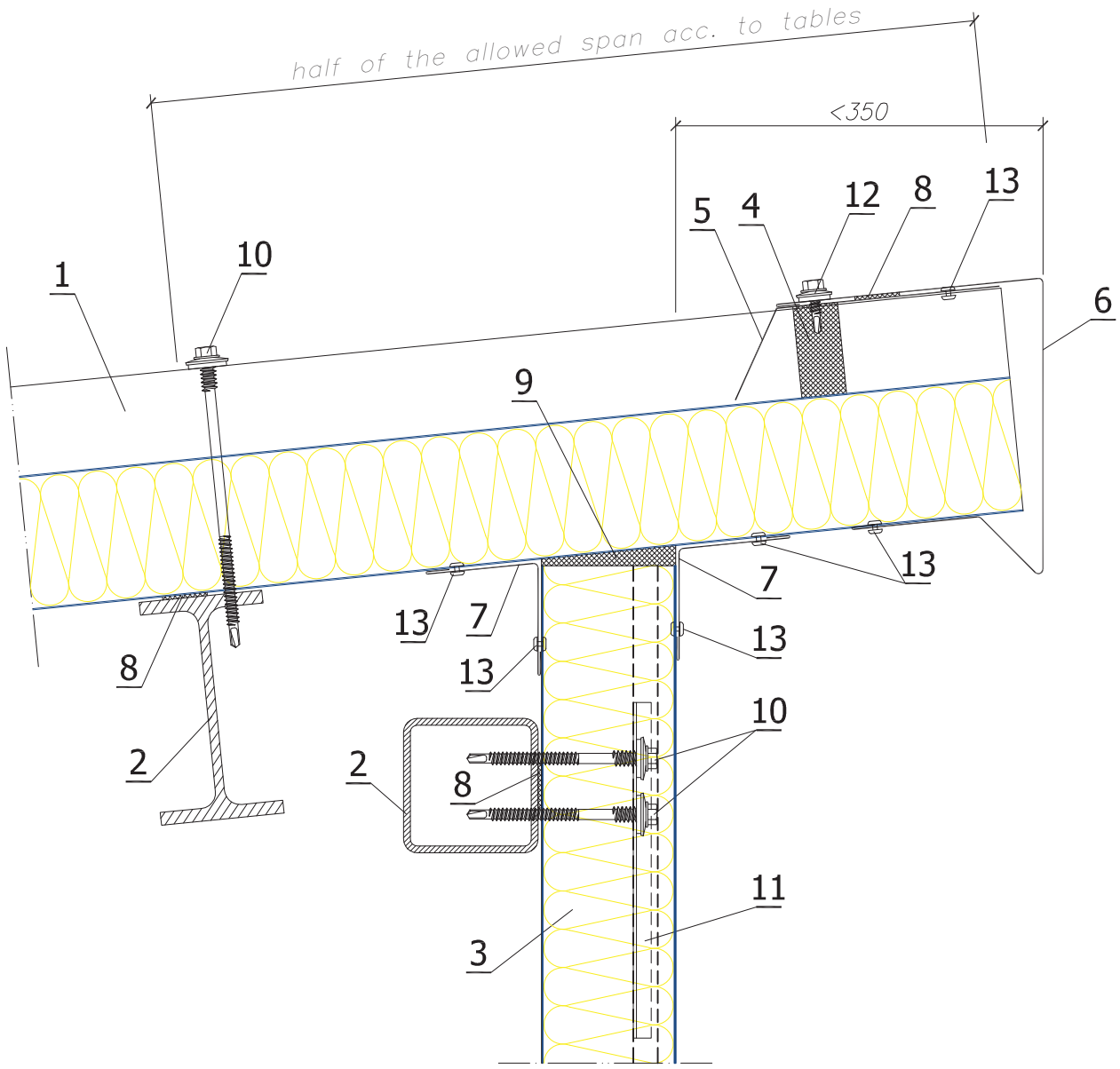
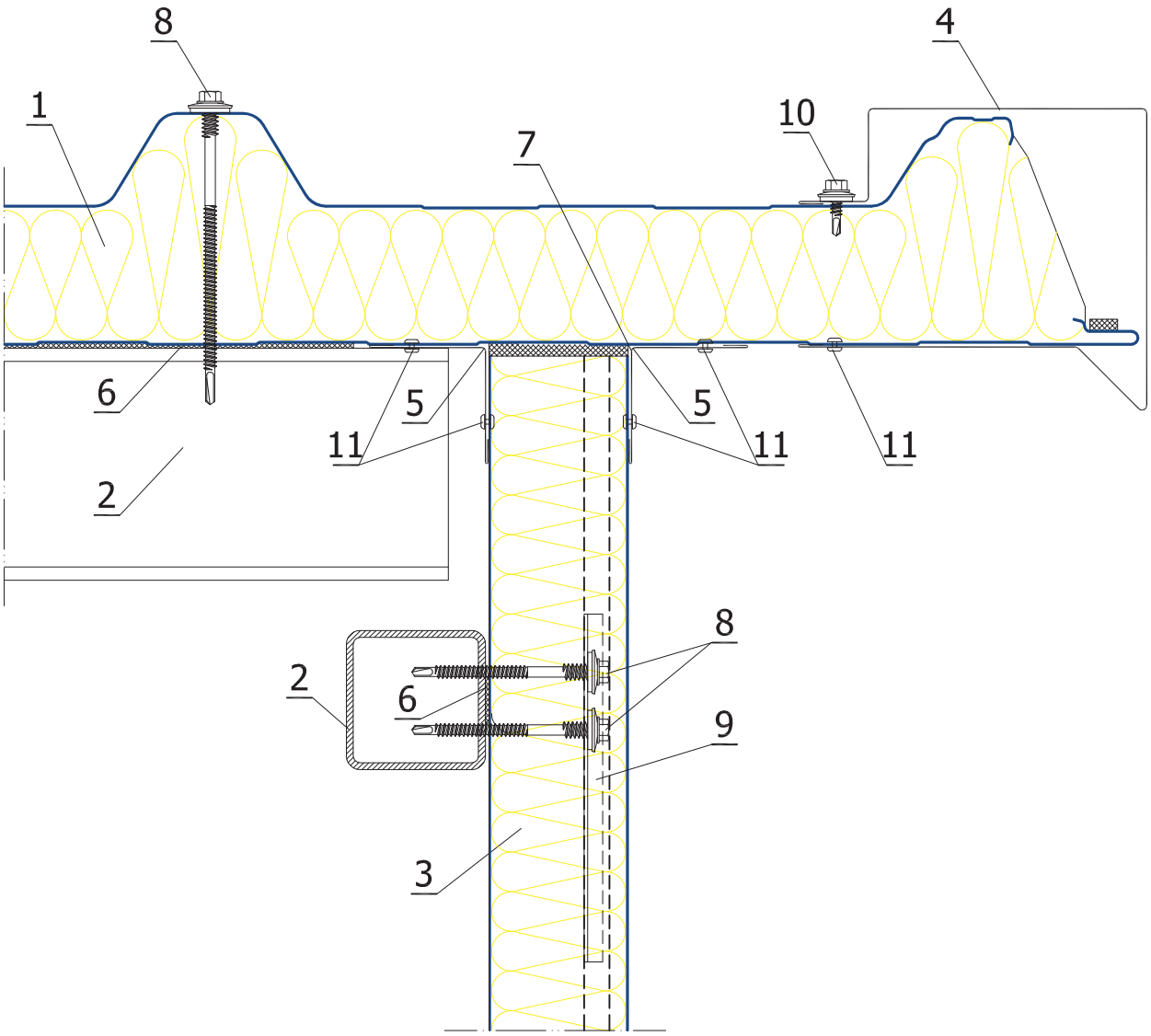


LEGEND:
1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Structure acc. to structure design
3. **GORLICKA U/GORLICKA U GS-PIR** wall panel
4. Profiled seal **(PE)**
5. Profiled flashing **OB-28**
6. Top flashing **OB-31**
7. Inner corner flashing **OB-02**
8. Polyethylene, self-adhesive sealing tape **(PES)**
9. Polyurethane caulking foam
10. Self-drilling connector for sandwich panels
11. **PM1** spacer
12. Self-drilling connector for steel sheet
13. Tight blind rivet **4.8 x 9.5**

Detail of eave cross-section
Left side

Scale
1:3



LEGEND:
1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Structure acc. to structure design
3. **GORLICKA U/GORLICKA D GS-PIR** wall panel
4. Covering flashing **OB-24**
5. Corner flashing **OB-02**
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Polyurethane caulking foam
8. Self-drilling connector for sandwich panels
9. **PM1** spacer
10. Self-drilling connector for steel sheet
11. Tight blind rivet **4.8 x 9.5**

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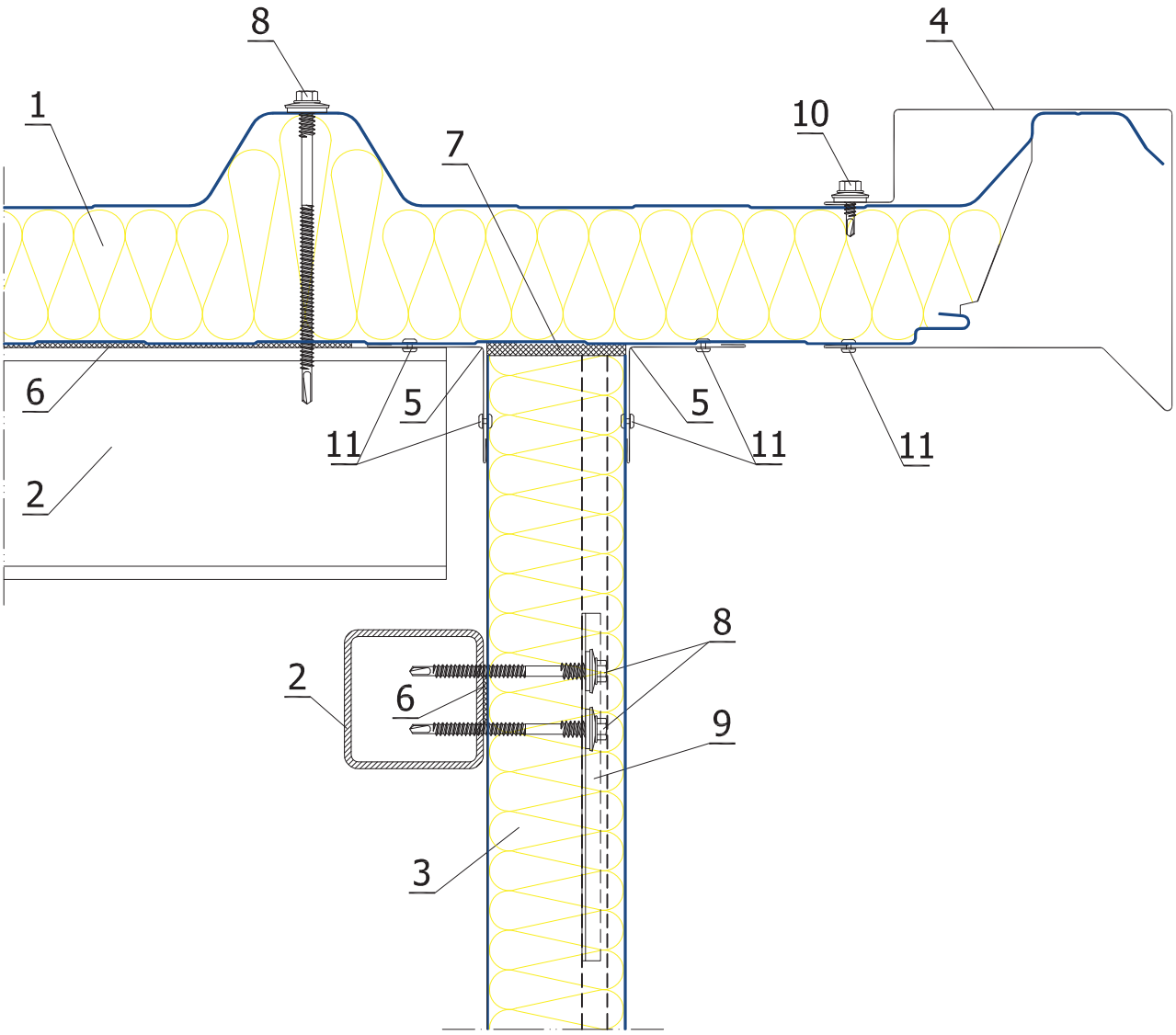
Detail of eave cross-section
Right side

Scale
1:3

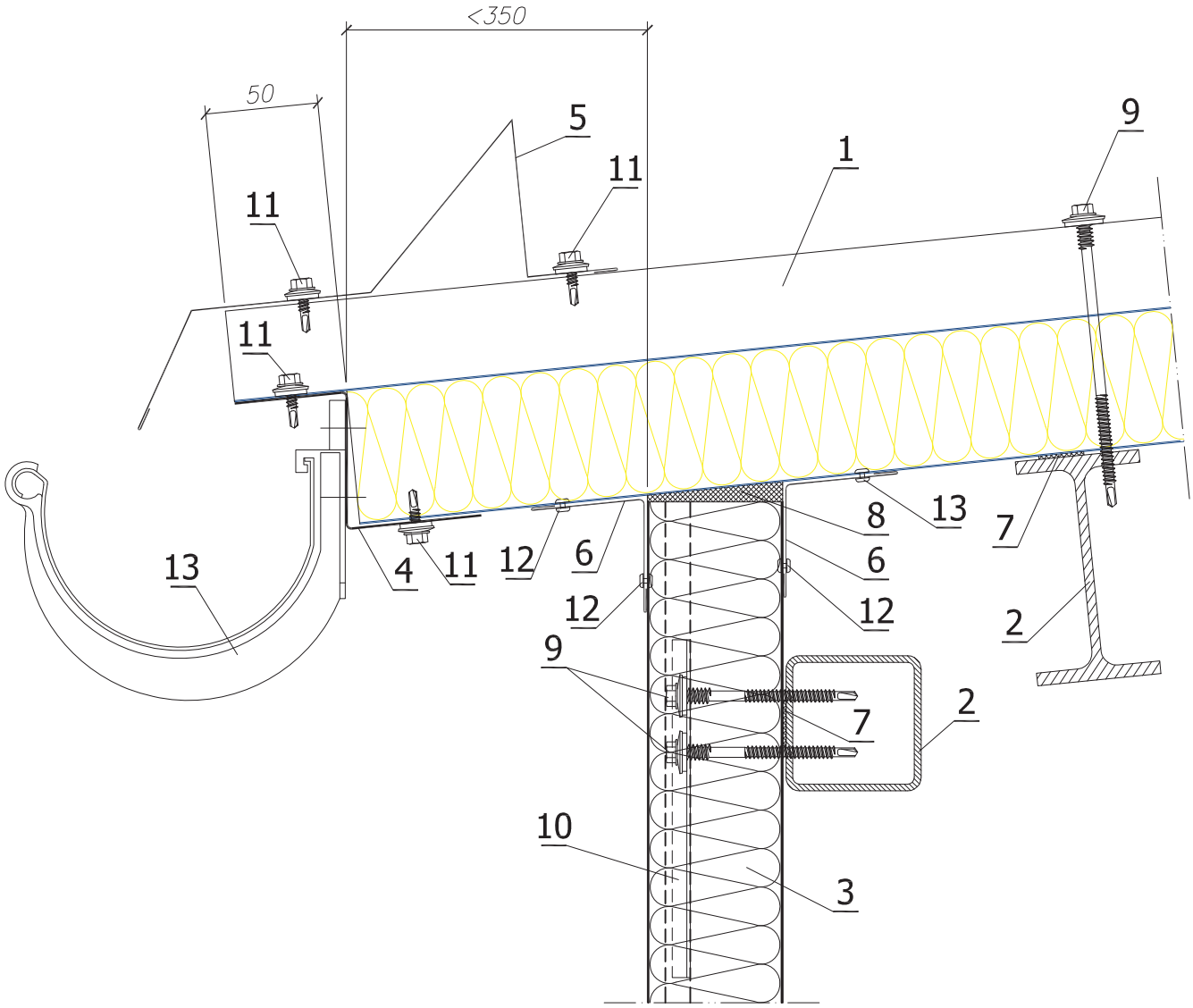
GÓR-STAL



LEGEND:
1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Structure acc. to structure design
3. **GORLICKA U/GORLICKA U GS-PIR** wall panel
4. Covering flashing **OB-24**
5. Corner flashing **OB-02**
6. Polyethylene, self-adhesive sealing tape **(PES)**
7. Polyurethane caulking foam
8. Self-drilling connector for sandwich panels
9. **PM1** spacer
10. Self-drilling connector for steel sheet
11. Tight blind rivet **4.8 x 9.5**

Detail of water evacuation to gutter
Variant I

Scale
1:3



LEGEND:

1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Structure acc. to structure design
3. **GORLICKA U/GORLICKA U GS-PIR** wall panel
4. Under-gutter Z-bar **OB-26**
5. Snow guard **OB-27**
6. Corner flashing **OB-02**
7. Polyethylene, self-adhesive sealing tape **(PES)**
8. Polyurethane caulking foam
9. Self-drilling connector for sandwich panels
10. **PM1** spacer
11. Self-drilling connector for steel sheet
12. Tight blind rivet **4.8 x 9.5**
13. Gutter

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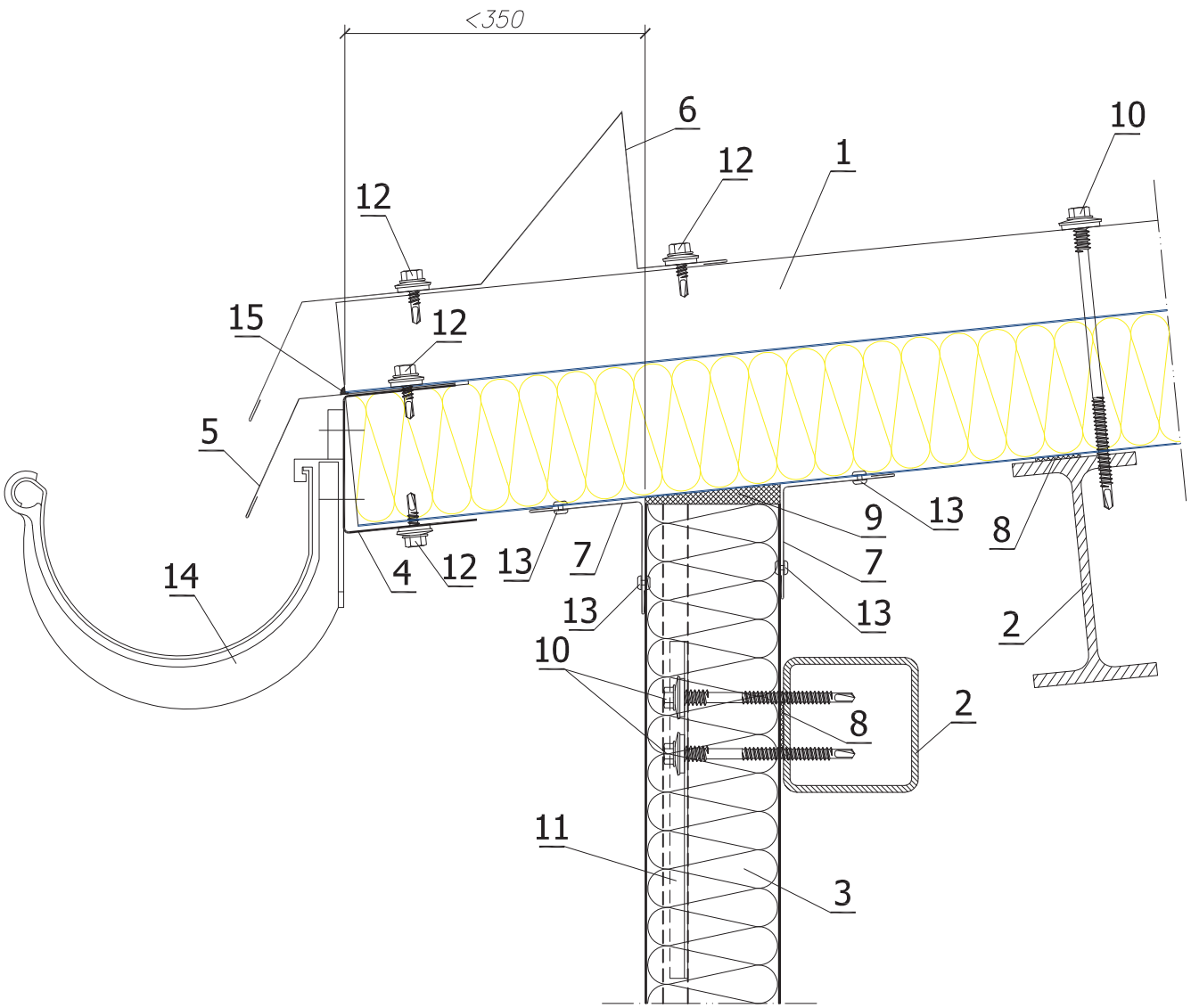
Detail of water evacuation to gutter
Variant II

Scale
1:3

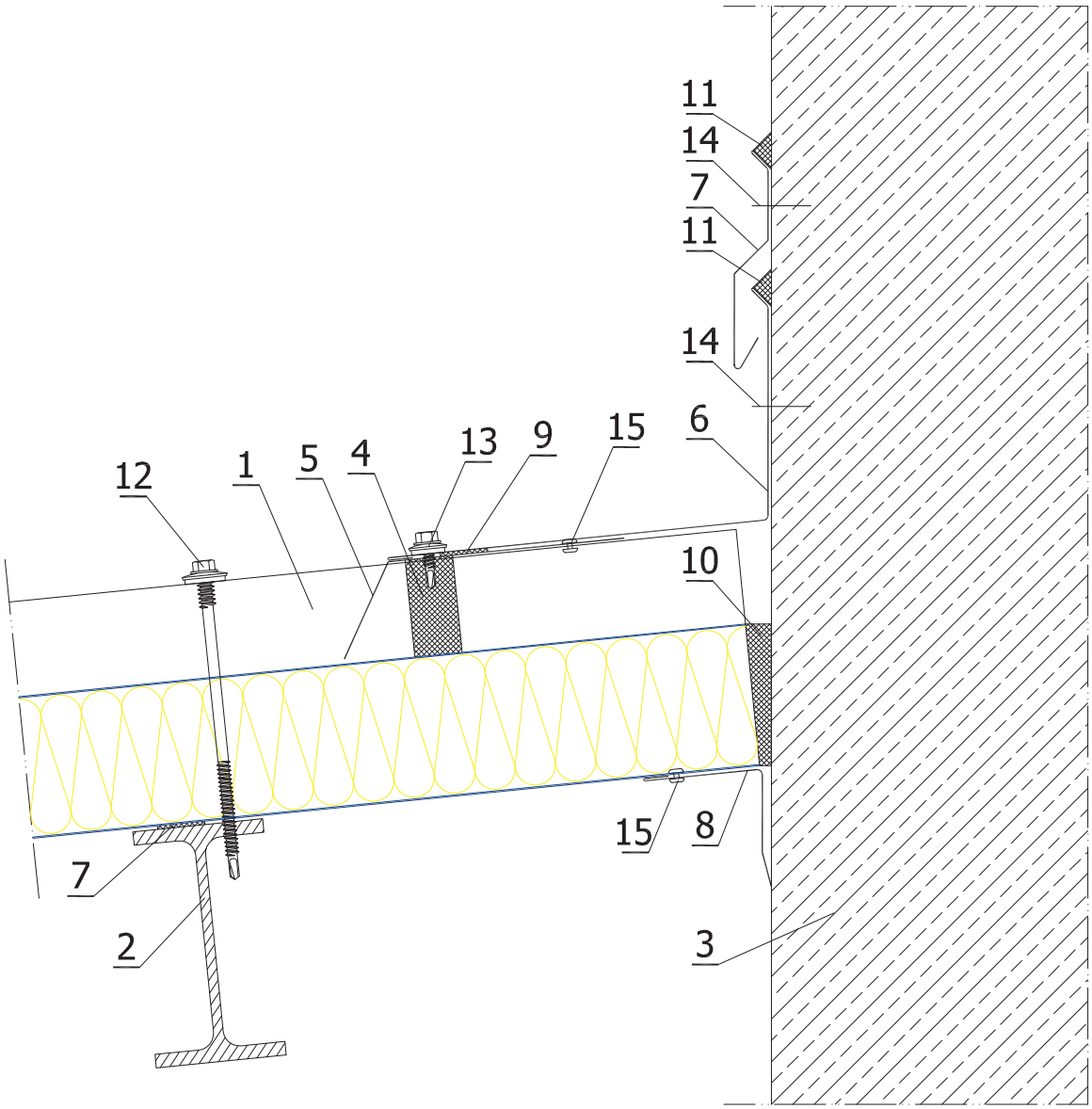
GÓR-STAL



LEGEND:
1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Structure acc. to structure design
3. **GORLICKA U/GORLICKA U GS-PIR** wall panel
4. Under-gutter channel-section **OB-25**
5. Drip edge **OB-33**
6. Snow guard **OB-27**
7. Corner flashing **OB-02**
8. Polyethylene, self-adhesive sealing tape **(PES)**
9. Polyurethane caulking foam
10. Self-drilling connector for sandwich panels
11. **PM1** spacer
12. Self-drilling connector for steel sheet
13. Tight blind rivet **4.8 x 9.5**
14. Gutter
15. Butyl sealing compound

Detail of panel connection to reinforced concrete or masonry wall

Scale
1:3



LEGEND:

1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Purlin acc. to structure design
3. Reinforced concrete or masonry fire-wall
4. Profiled seal **(PE)**
5. Profiled flashing **OB-28**
6. Roof flashing **OB-30**
7. Drip edge **OB-12**
8. Corner flashing **OB-07**
9. Polyethylene, self-adhesive sealing tape **(PES)**
10. Polyurethane caulking foam
11. Butyl sealing compound
12. Self-drilling connector for sandwich panels
13. Self-drilling connector for steel sheet
14. Steel expansion joint for quick assembly
15. Tight blind rivet **4.8 x 9.5**

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Detail of roof panels' connection along the length
Panelcut options

Scale
1:3
1:16

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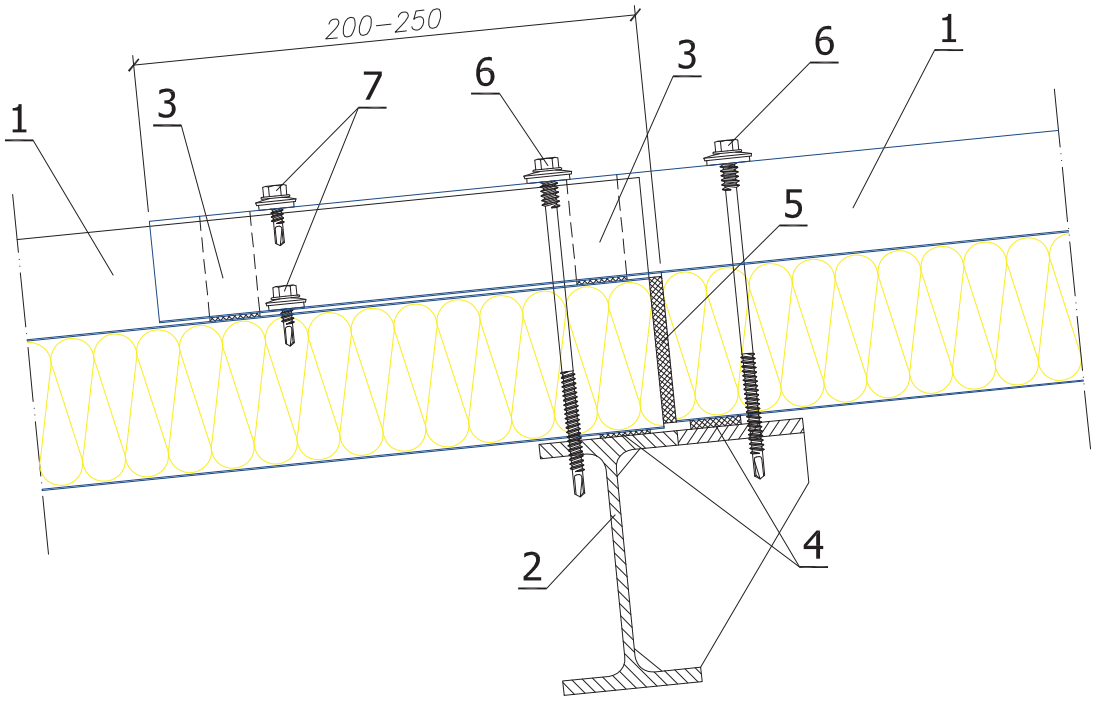
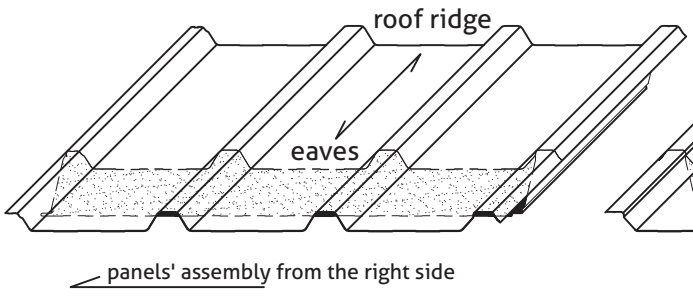
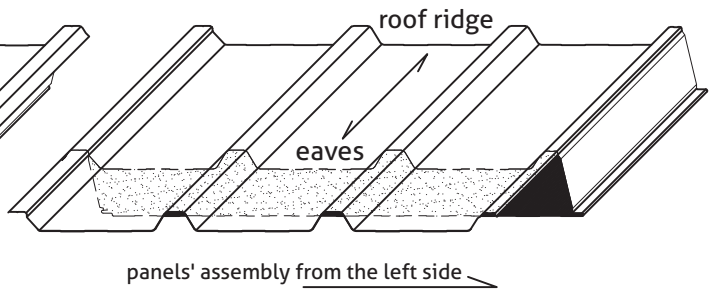


LEGEND:
1. . **GORLICKA D/GORLICKA D GS-PIR** roof panels
2. Purlin acc. to structure design
3. Butyl sealing compound
4. Polyethylene, self-adhesive sealing tape **(PES)**
5. Polyurethane caulking foam
6. Self-drilling connector for sandwich panels
7. Self-drilling connector for steel sheet

Panelcut options



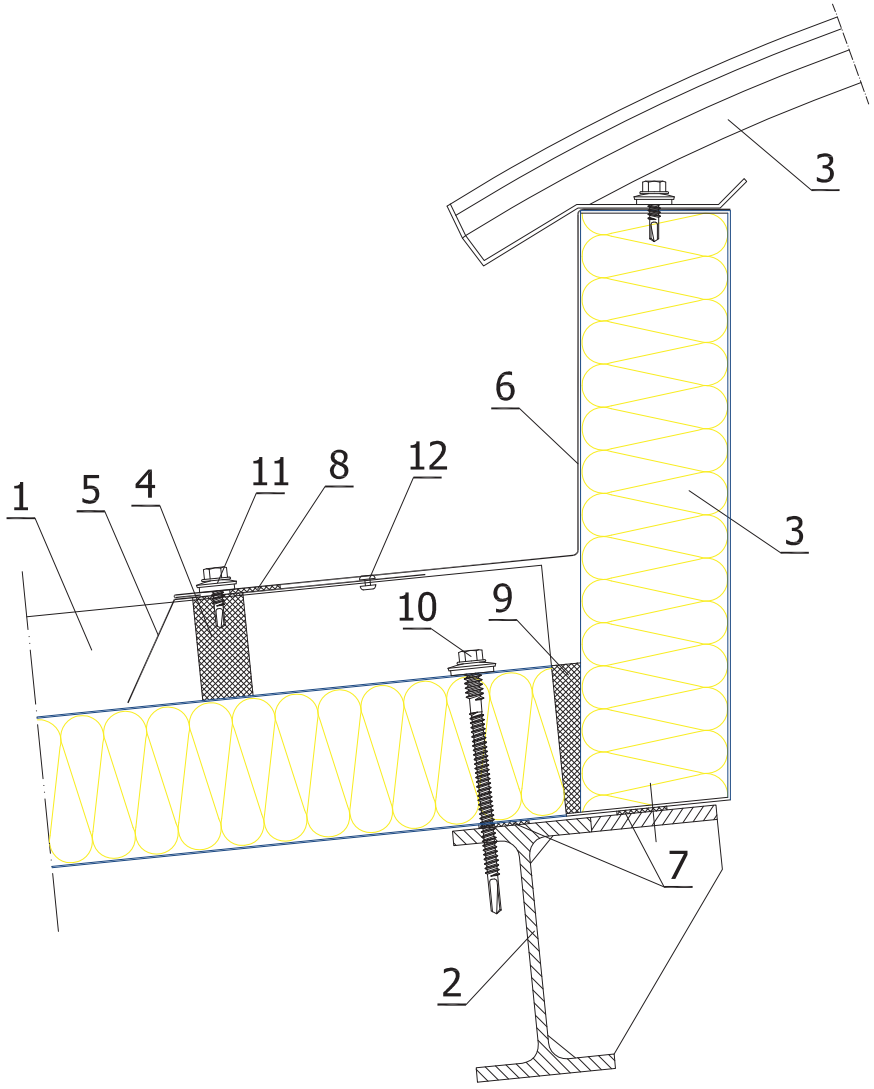
RIGHT panelcut



LEFT panelcut

Detail of skylight in roof ridge

Scale
1:3



LEGEND:

1. **GORLICKA D/GORLICKA D GS-PIR** roof panel
2. Purlin acc. to structure design
3. Skylight with base
4. Profiled seal **(PE)**
5. Profiled flashing **OB-28**
6. Individual skylight flashing
7. Polyethylene, self-adhesive sealing tape **(PES)**
8. Butyl sealing compound
9. Polyurethane caulking foam
10. Self-drilling connector for sandwich panels
11. Self-drilling connector for steel sheet
12. Tight blind rivet **4.8 x 9.5**

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Detail of ventilation duct (max. ø= 250) penetr ation through roof

Scale
1:5

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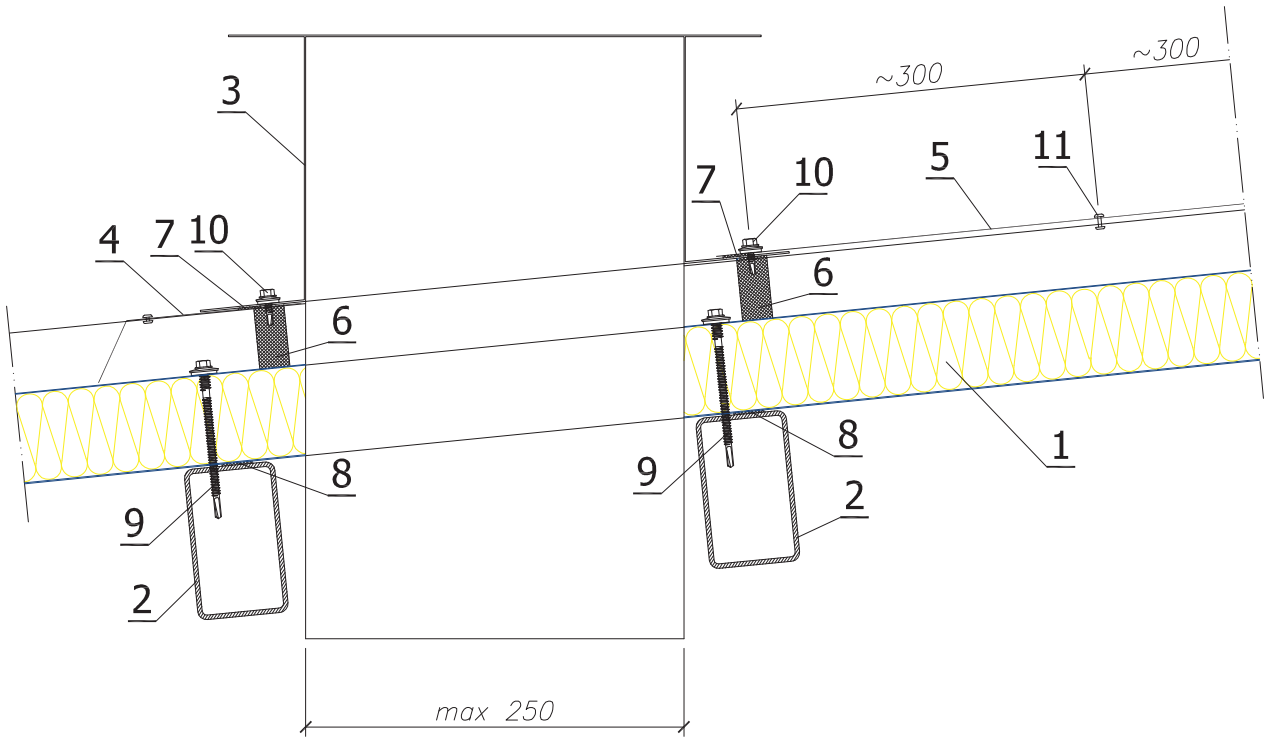

LEGEND:
1.**GORLICKA D/GORLICKA D GS-PIR**roof panel
2. Supporting structure (if necessary for strength reasons)
3. Wind-driven roof vent base (mounted in the centre of a panel)
4. Profiled flashing **OB-28**
5. Individual flashing at roof ridge flashing
6. Profiled seal **(PE)**
7. Butyl sealing compound
8. Polyethylene, self-adhesive sealing tape **(PES)**
9. Self-drilling connector for sandwich panels
10. Self-drilling connector for steel sheet
11. Tight blind rivet **4.8 x 9.5**

ACCESSORIES

The coldstore panel housing system is supplemented with flashings, fasteners, sealing tapes, suspension systems and finishing strips.

FLASHINGS

Gór-Stal is equipped with a profiler able to produce steel sheet flashings up to **1.25 mm** thick and **6 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.

Sheet thickness [mm]	Sheet weight [kg/m²]	Length of standard flashings [m]	Available length of flashings [m]	Sheet standard RAL colours
0,50	4,00	6,0	1,0 - 6,0	9002, 9010, 9006, 9007, 5010, 1015, 3000, 6029, 7016
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. Because freezer chambers are constructed as sealed rooms, it is important to avoid negative pressure when freezing and defrosting by means of pressure equalizing valves.

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 6.3/6.0 x 80-210
assembly of flashings to sandwich panel	screw 4.2 x 16-25
	tight rivet 4.8 x 9.5
assembly of flashings to thin-wall structures in a building	screw 4.8 x 19-25
	tight rivet 4.8 x 15.1
aesthetic finish	caps in panel colour

Sandwich panel type and thickness [mm]		Connector dimensions [mm]
wall panel S	40	screw 6,3/5,5 x 65-100
	60	screw 6,3/5,5 x 90-130
	80	screw 6,3/5,5 x 110-150
	100	screw 6,3/5,5 x 125-180
wall panel U	60	screw 6,3/5,5 x 65-90
	80	screw 6,3/5,5 x 90-130
	100	screw 6,3/5,5 x 125-150
	120	screw 6,3/5,5 x 150-173
roof panel D	40/80	screw 6,3/5,5 x 120-150
	60/100	screw 6,3/5,5 x 130-180
	80/120	screw 6,3/5,5 x 150-210
	100/140	screw 6,3/5,5 x 175-210
	120/160	screw 6,3/5,5 x 180-215
	160/200	screw 6,3/5,5 x 230-260

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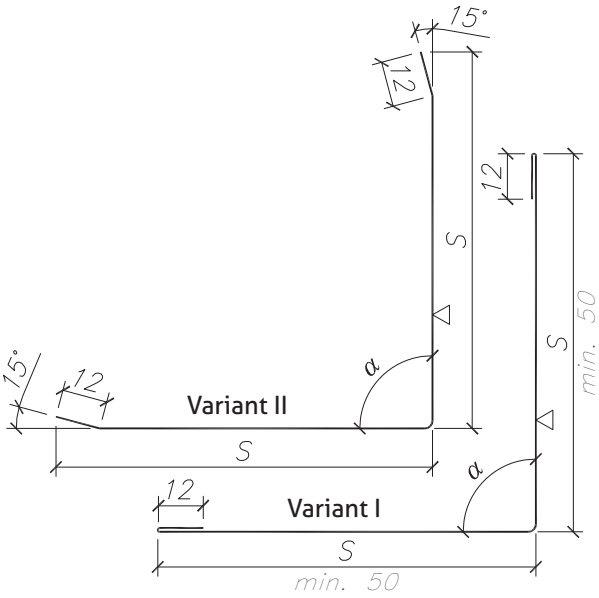
Flashing OB-01

outer corner

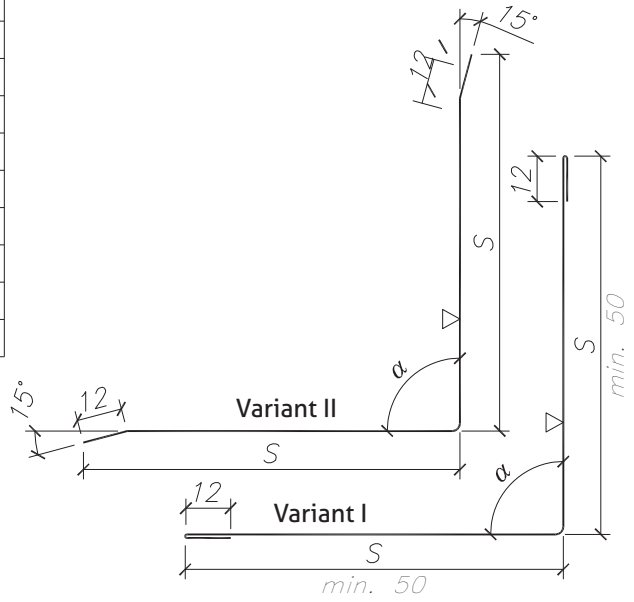
Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-01/50	50	90	6000	2,97
2	OB-01/75	75			4,17
3	OB-01/100	100			5,37
4	OB-01/150	150			7,77
5	OB-01/200	200			10,17
6	OB-01/250	250			12,57
Non-standard – steel sheet 0,5 or 0,7 mm thick					
7	OB-01/ S= ..... / α= ..... / L=.....				
8	OB-01/ S1= ..... / S2= ..... α= ..... / L=.....				



Flashing OB-02

inner corner

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-02/50	50	90	6000	2,97
2	OB-02/75	75			4,17
3	OB-02/100	100			5,37
4	OB-02/150	150			7,77
5	OB-02/200	200			10,17
6	OB-02/250	250			12,57
Non-standard – steel sheet 0,5 or 0,7 mm thick					
7	OB-02/ S= ..... / α= ..... / L=.....				
8	OB-02/ S1= ..... / S2= ..... α= ..... / L=.....				



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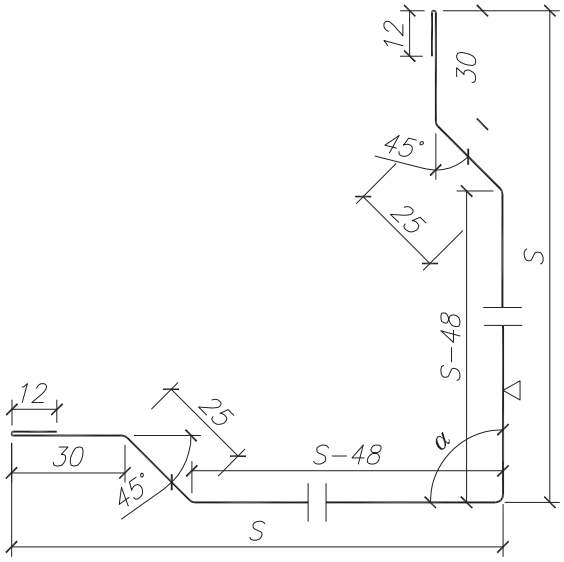
Flashing OB-03

outer corner, covering connectors

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-03/160	160	90	6000	8,59
2	OB-03/180	180			9,55
3	OB-03/200	200			10,51
4	OB-03/220	220			11,47
5	OB-03/240	240			12,43
6	OB-03/260	260			13,39
Non-standard – steel sheet 0,5 or 0,7 mm thick					
7	OB-03/ S= ..... / α= ..... / L=.....				
8	OB-03/ S1= ..... / S2= ..... α= ..... / L=.....				

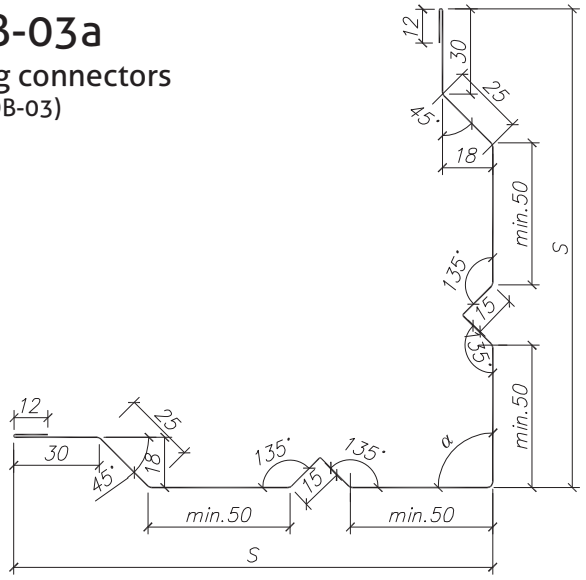


Flashing OB-03a

outer corner, covering connectors

(alternative for OB-03)

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-03a/180	180	90	6000	9,97
2	OB-03a/200	200			10,93
3	OB-03a/220	220			11,89
4	OB-03a/240	240			12,85
5	OB-03a/260	260			13,81
Non-standard – steel sheet 0,5 or 0,7 mm thick					
6	OB-03a/ S= ..... / α= ..... / L=.....				
7	OB-03a/ S1= ..... / S2= ..... α= ..... / L=.....				

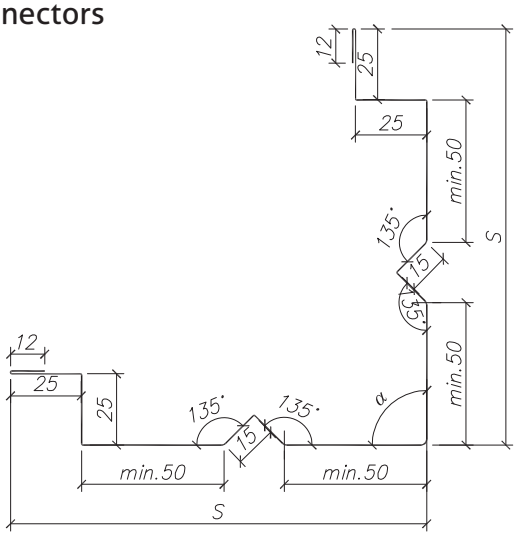


Flashing OB-03b

outer corner, covering connectors

(alternative for OB-03)

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-03b/160	160	90	6000	9,88
2	OB-03b/180	180			10,86
3	OB-03b/200	200			11,80
4	OB-03b/220	220			12,76
5	OB-03b/240	240			13,72
6	OB-03b/260	260			14,68
Non-standard – steel sheet 0,5 or 0,7 mm thick					
7	OB-03b/ S= ..... / α= ..... / L=.....				
8	OB-03b/ S1= ..... / S2= ..... α= ..... / L=.....				



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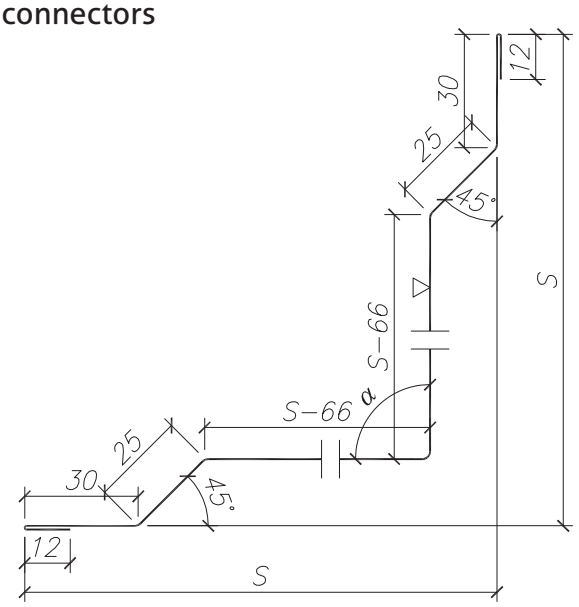
Flashing OB-04

inner corner, covering connectors

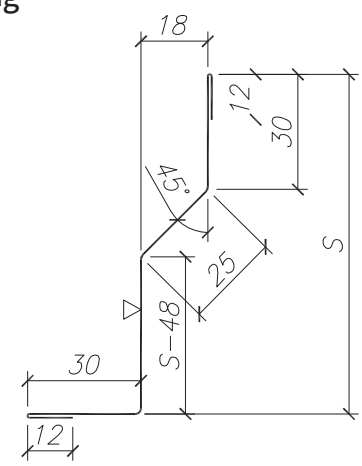
Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-04/100	100	90	6000	4,85
2	OB-04/120	120			5,80
3	OB-04/150	150			7,25
Non-standard – steel sheet 0,5 or 0,7 mm thick					
4	OB-04/ S= ..... / α= ..... / L=.....				
5	OB-04/ S1= ..... /S2= ..... / α= ..... / L=.....				



Flashing OB-05

inner corner, covering at flooring

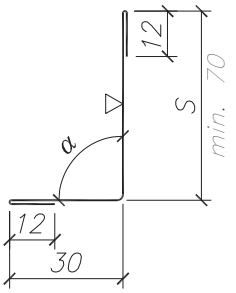
Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-05/90	90	-	6000	3,62
2	OB-05/120	120			4,34
Non-standard – steel sheet 0,5 or 0,7 mm thick					
3	OB-05/ S=..... /α=...../ L=.....				



Flashing OB-06

inner corner, covering at flooring

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1 mm thick					
1	OB-06/70	70	92	6000	2,98
Non-standard – steel sheet 0,5 or 0,7 mm thick					
2	OB-06/ S=..... /α=...../ L=.....				



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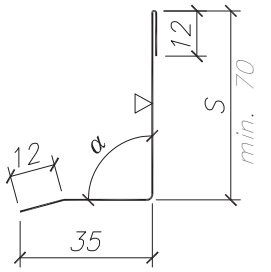
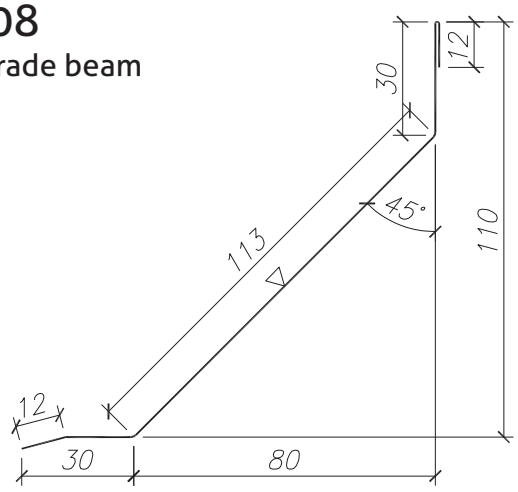
Flashing OB-07
covering corner

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-07/70	70	90	6000	2,81
Non-standard – steel sheet 0,5 or 0,7 mm thick					
2	OB-07/ S=..... /α=...../ L=.....				



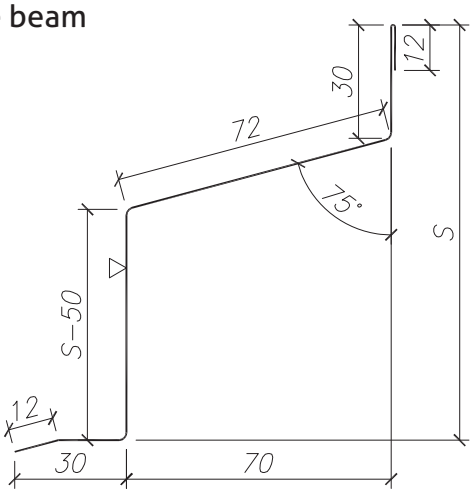
Flashing OB-08
inner corner, covering at grade beam

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-08	-	-	6000	3,72



Flashing OB-09
inner corner, covering at grade beam

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-09/110	110	-	6000	4,92
2	OB-09/150	150			5,88
Non-standard – steel sheet 0,5 or 0,7 mm thick					
3	OB-09/ S=..... / L=.....				



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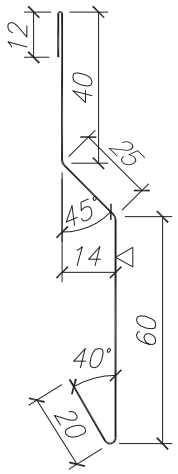
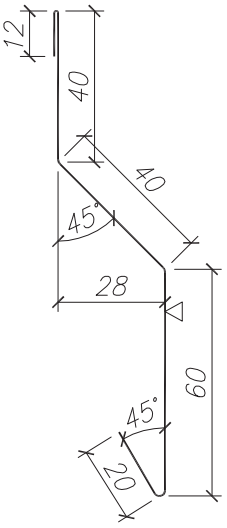
Flashing OB-10
narrow wall drip edge

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-10	-	-	6000	3,77



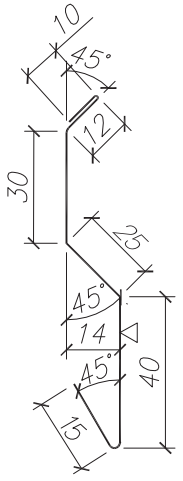
Flashing OB-11
wide wall drip edge

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-11	-	-	6000	4,13



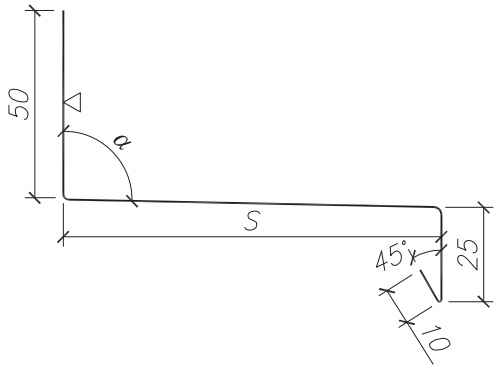
Flashing OB-12
wall drip edge

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-12	-	-	6000	3,29



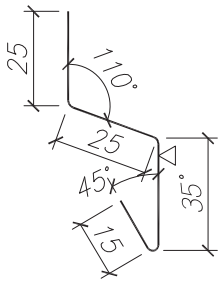
Flashing OB-13
eaves

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-13/60	60	92	6000	3,48
2	OB-13/80	80			3,96
3	OB-13/100	100			4,44
4	OB-13/120	120			4,92
Non-standard – steel sheet 0,5 or 0,7 mm thick					
5	OB-13/ S=..... /α=...../ L=.....				



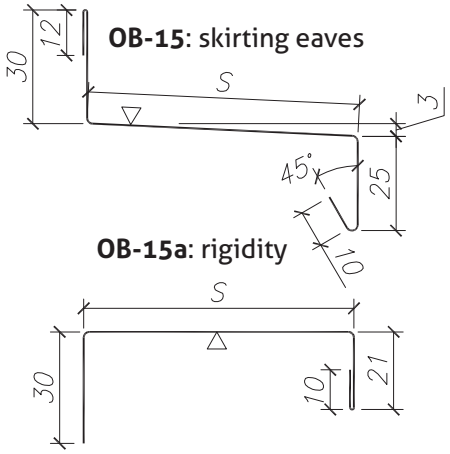
Flashing OB-14
small eaves

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-14	-	-	6000	2,28



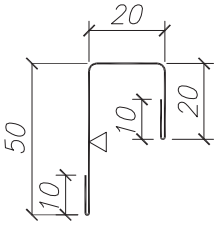
Flashing OB-15 - skirting eaves
OB-15 + Ob15a - skirting eaves with rigidity

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-15/70	70	-	6000	3,53
2	OB-15/90	90			4,00
3	OB-15/110	110			4,48
Non-standard – steel sheet 0,5 or 0,7 mm thick					
4	OB-15/ S=..... / L=.....				
Standard – steel sheet 0,5 mm thick					
5	OB-15a/70	70	-	6000	3,14
6	OB-15a/90	90			3,62
7	OB-15a/110	110			4,10
Non-standard – steel sheet 0,5 or 0,7 mm thick					
8	OB-15a/ S=..... / L=.....				



Flashing OB-16
under-gutter rigid flashing

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-16/50	50	-	6000	4,40
Non-standard – steel sheet 0,5 or 0,7 mm thick					
2	OB-07/ S=..... / L=.....				



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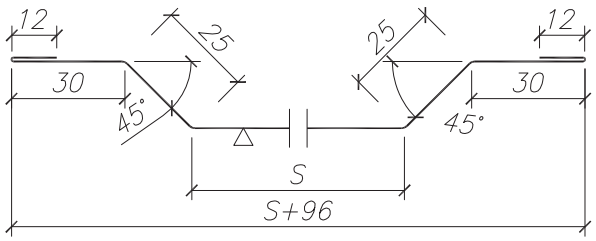
Flashing OB-17

covering panels' connection

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-17/40	40	-	6000	4,18
2	OB-17/60	60			4,66
3	OB-17/80	80			5,14
4	OB-17/100	100			5,38
5	OB-17/120	120			6,09
6	OB-17/140	140			6,57
7	OB-17/160	160			7,05
8	OB-17/180	180			7,53
Non-standard – steel sheet 0,5 or 0,7 mm thick					
9	OB-17/ S=..... / L=.....				

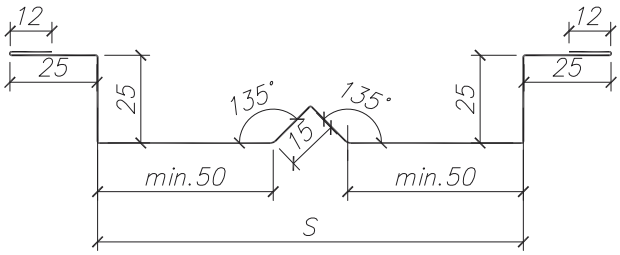


Flashing OB-17a

covering panels' connection

(alternative for OB-17)

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-17a/120	120	-	6000	6,07
2	OB-17a/140	140			6,55
3	OB-17a/160	160			7,03
4	OB-17a/180	180			7,51
Non-standard – steel sheet 0,5 or 0,7 mm thick					
5	OB-17A/ S=..... / L=.....				

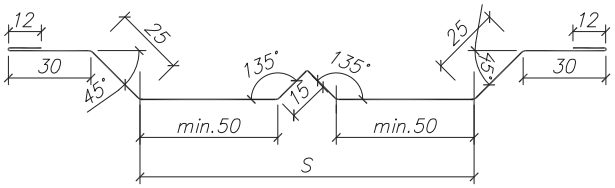


Flashing OB-17b

covering panels' connection

(alternative for OB-17)

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-17b/120	120	-	6000	6,31
2	OB-17b/140	140			7,79
3	OB-17b/160	160			7,27
4	OB-17b/180	180			7,75
Non-standard – steel sheet 0,5 or 0,7 mm thick					
5	OB-17B/ S=..... / L=.....				



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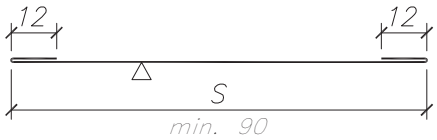
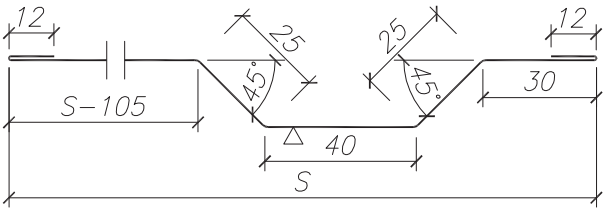
Flashing OB-18
covering

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-18/90	90	-	6000	2,74
2	OB-18/100	100			2,97
3	OB-18/120	120			3,45
Non-standard – steel sheet 0,5 or 0,7 mm thick					
4	OB-18/ S=..... / L=.....				

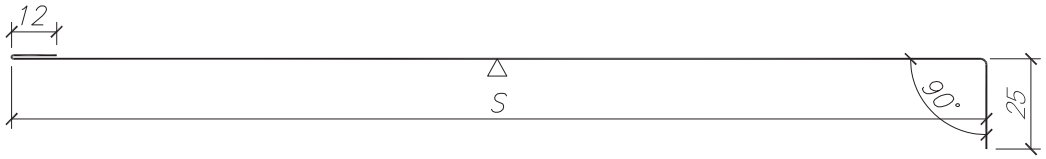


Flashing OB-19
covering

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-19/175	175	-	6000	5,13
2	OB-19/195	195			5,62
3	OB-19/215	215			6,09
Non-standard – steel sheet 0,5 or 0,7 mm thick					
4	OB-19/ S= ..... / L=.....				



Flashing OB-20
covering door lintel



Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Non-standard – steel sheet 0,5 or 0,7 mm thick					
1	OB-20/ S= ..... / L=.....				

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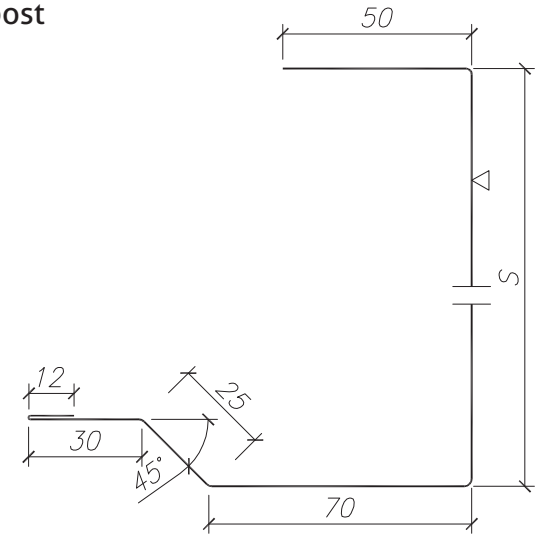
Flashing OB-21

covering door post

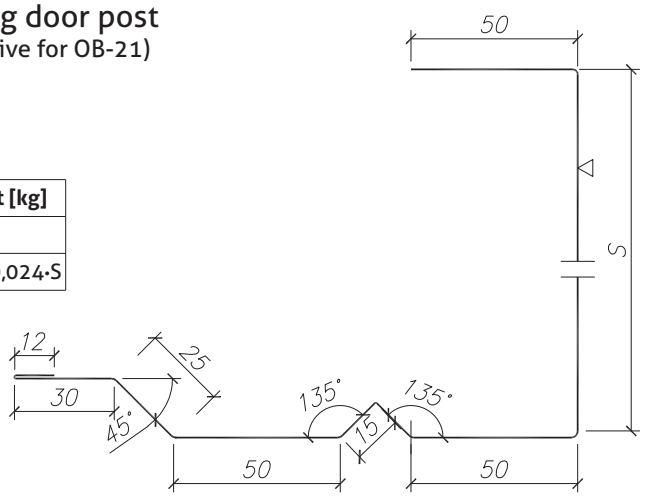
Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Non-standard – steel sheet 0,5 or 0,7 mm thick					
1	OB-21/ S= ..... / L=.....				=4,49+0,024•S



Flashing OB-21a

covering door post
(alternative for OB-21)

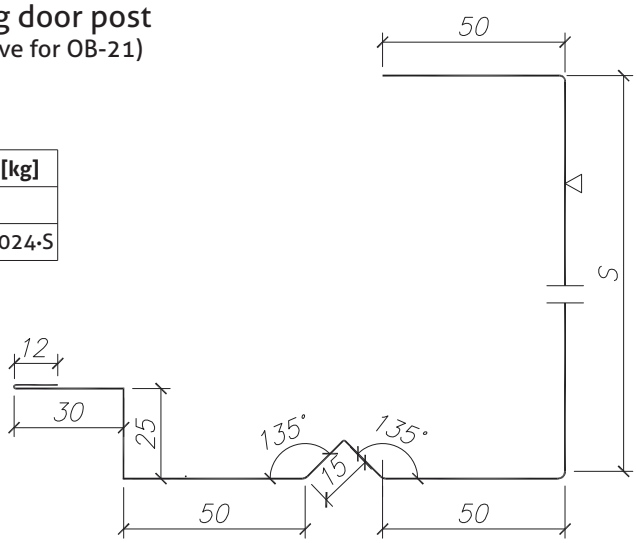
Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Non-standard – steel sheet 0,5 or 0,7 mm thick					
1	OB-21a/ S= ..... / L=6000				=5,93+0,024•S



Flashing OB-21b

covering door post
(alternative for OB-21)

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Non-standard – steel sheet 0,5 or 0,7 mm thick					
1	OB-21b/ S= ..... / L= 6000				=5,93+0,024•S



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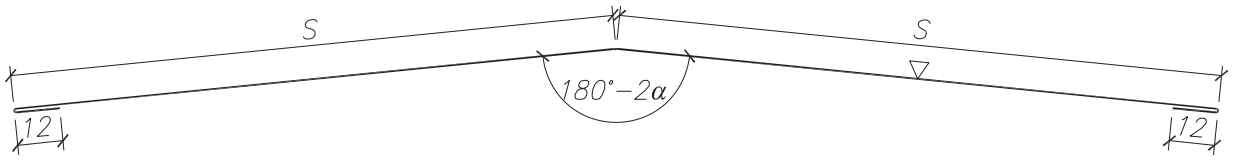
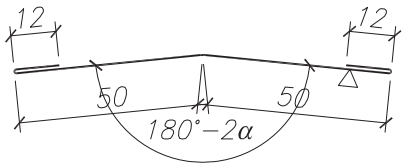
Flashing OB-22
top roof ridge



Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-22/160	160	according to the order	6000	8,25
2	OB-22/200	200			10,17
3	OB-22/250	250			12,57
Non-standard – steel sheet 0,5 or 0,7 mm thick					
4	OB-22/ S= ..... / L= 6000				

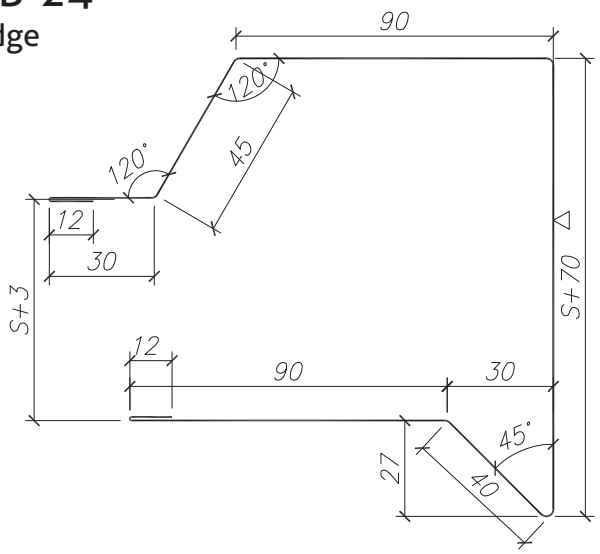
Flashing OB-23
bottom roof ridge

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-23/50	50	5,71	6000	2,97
2	OB-23/50	50	11,30		2,97
Non-standard – steel sheet 0,5 or 0,7 mm thick					
3	OB-23/ S=..... / L= 6000				



Flashing OB-24
side drip edge

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-24/40	40	-	6000	10,30
2	OB-24/60	60			10,78
3	OB-24/80	80			11,26
4	OB-24/100	100			11,74
5	OB-24/120	120			12,22
6	OB-24/160	160			13,18
Non-standard – steel sheet 0,5 or 0,7 mm thick					
8	OB-24/ S=..... / L=....				



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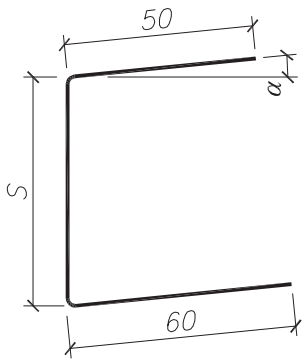
Flashing OB-25

under-gutter channel section

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1 mm thick					
1	OB-25/40	40	α	6000	7,20
2	OB-25/60	60			8,16
3	OB-25/80	80			9,12
4	OB-25/100	100			10,08
5	OB-25/120	120			11,04
6	OB-25/160	160			12,96

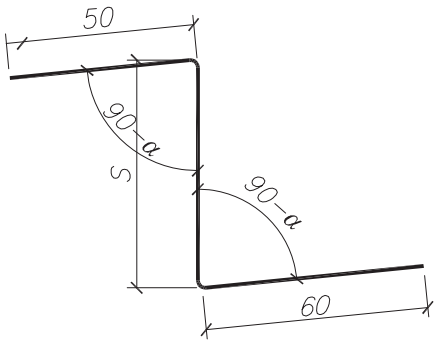


NOTE!
The steep roofs (α > 7°) need individual project

Flashing OB-26

under-gutter Z-bar

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1 mm thick					
1	OB-26/40	40	α	6000	7,20
2	OB-26/60	60			8,16
3	OB-26/80	80			9,12
4	OB-26/100	100			10,08
5	OB-26/120	120			11,04
6	OB-26/160	160			12,91

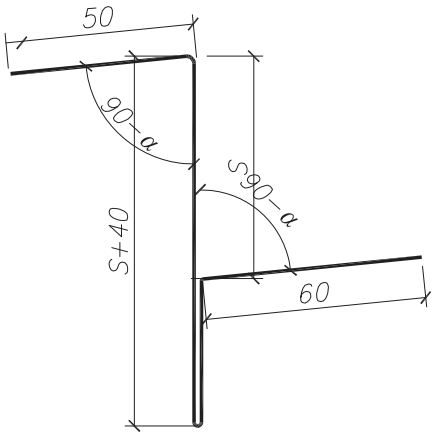


NOTE!
The steep roofs (α > 7°) need individual project

Flashing OB-26a

under-gutter Z-bar
(alternative for OB-26)

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1 mm thick					
1	OB-26a/40	40	α	6000	11,04
2	OB-26a/60	60			12,00



NOTE!
The steep roofs (α > 7°) need individual project

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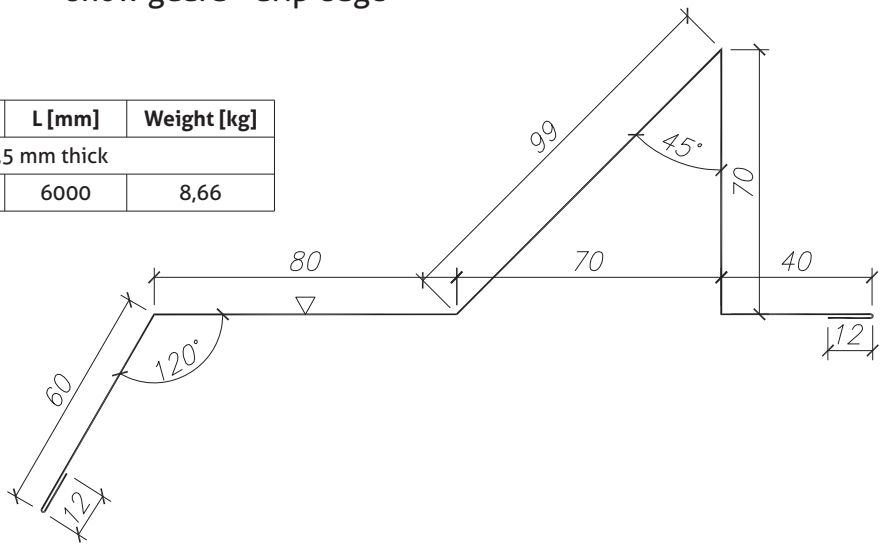
Flashing OB-27

snow guard - drip edge

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-27	-	-	6000	8,66

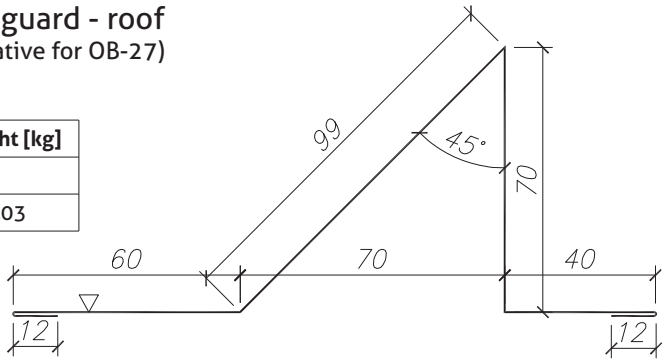


Flashing OB-27a

snow guard - roof

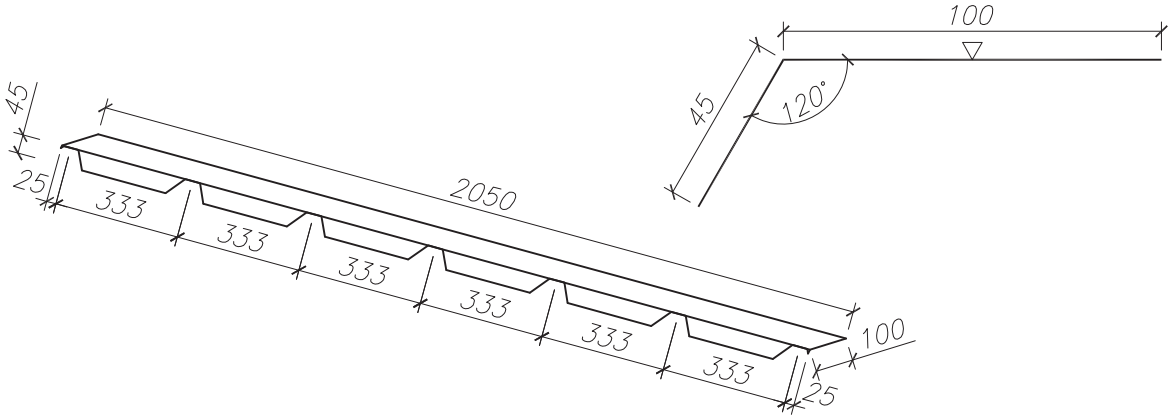
(alternative for OB-27)

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-27A	-	-	6000	7,03



Flashing OB-28

roof ridge bird spike



Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-28	-	-	2050	1,19

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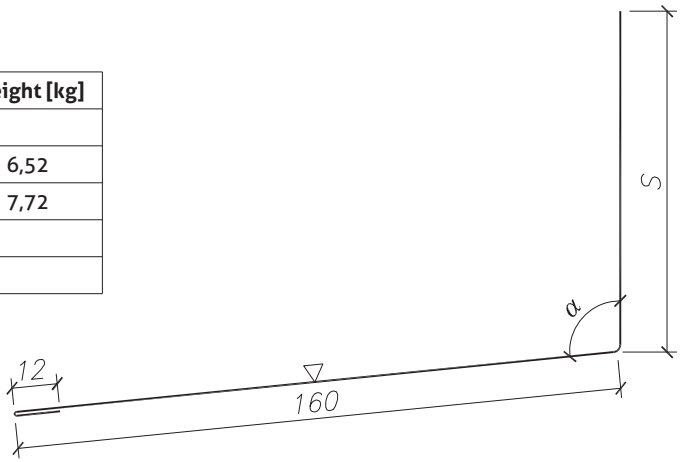
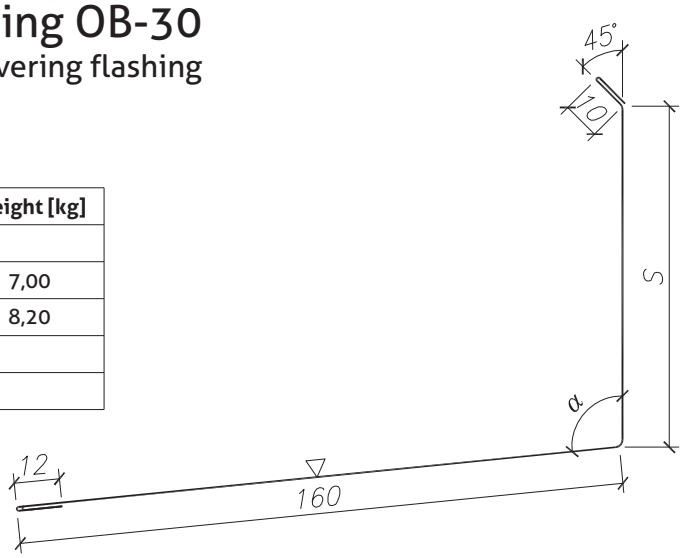
Flashing OB-29
roof covering flashing

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-29/100	100	α	6000	6,52
2	OB-29/150	150			7,72
Non-standard – steel sheet 0,5 or 0,7 mm thick					
3	OB-29/ S=...../ α= ..... / L= 6000				



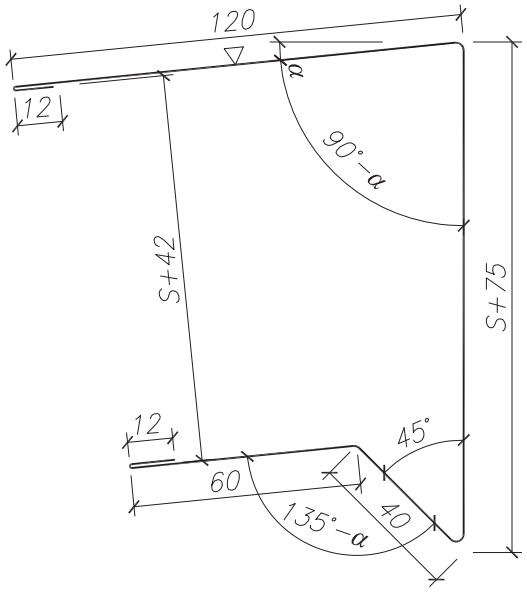
Flashing OB-30
roof covering flashing

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-30/100	100	α	6000	7,00
2	OB-30/150	150			8,20
Non-standard – steel sheet 0,5 or 0,7 mm thick					
3	OB-30/S=...../ α= ..... / L=				



Flashing OB-31
roof top

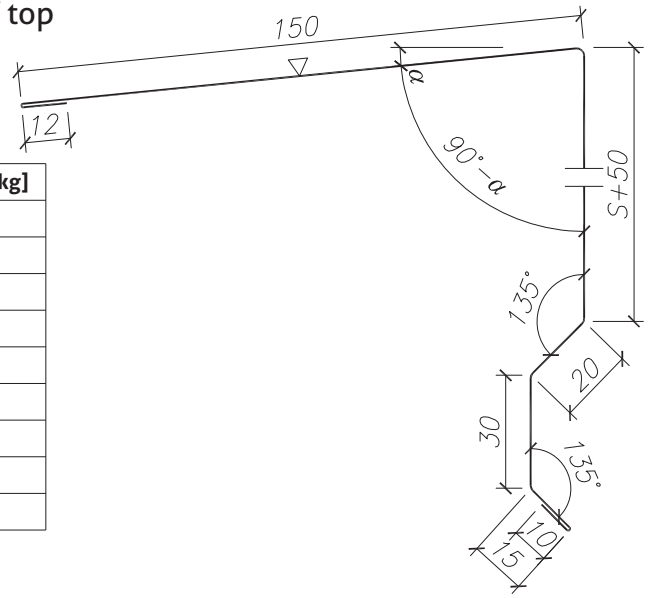
Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-31/40	40	-	6000	8,62
2	OB-31/60	60			9,10
3	OB-31/80	80			9,58
4	OB-31/100	100			10,06
5	OB-31/120	120			10,53
6	OB-31/160	160			11,50
Non-standard – steel sheet 0,5 or 0,7 mm thick					
7	OB-31/ S= ..... / α= ..... / L=.....				



NOTE!
The steep roofs (α > 7°) need individual project

Flashing OB-32

roof top



Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-32/40	40	-	6000	7,84
2	OB-32/60	60			8,32
3	OB-32/80	80			8,80
4	OB-32/100	100			9,29
5	OB-32/120	120			9,77
6	OB-32/160	160			10,73
Non-standard – steel sheet 0,5 or 0,7 mm thick					
7	OB-32/ S= ..... / α= ..... / L=.....				

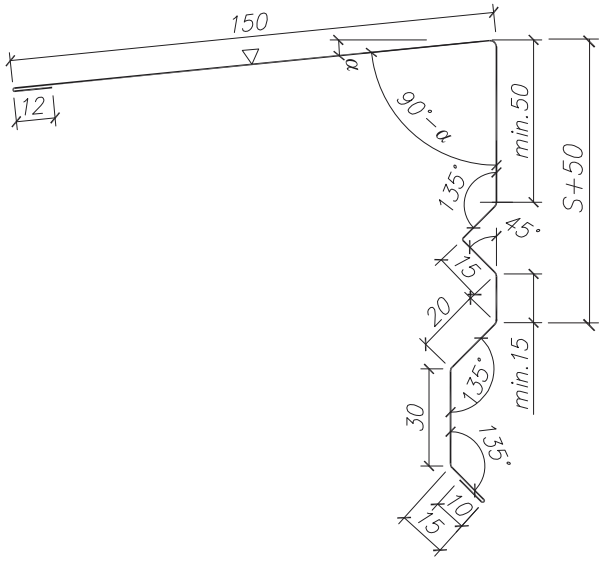
NOTE!

The steep roofs (α > 7°) need individual project

Flashing OB-32a

roof top

(alternative for OB-32)



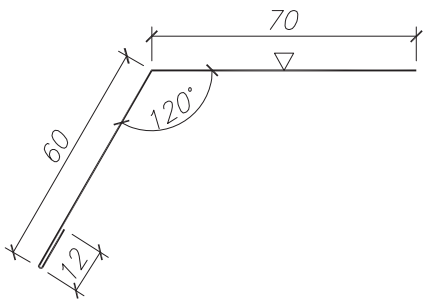
Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-32a/40	40	-	6000	8,06
2	OB-32a/60	60			8,54
3	OB-32a/80	80			9,02
4	OB-32a/100	100			9,50
5	OB-32a/120	120			9,98
6	OB-32a/160	160			10,94
Non-standard – steel sheet 0,5 or 0,7 mm thick					
7	OB-32a/ S= ..... / α= ..... / L=.....				

NOTE!

The steep roofs (α > 7°) need individual project

Flashing OB-33

drip edge



Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-33	-	120	6000	3,40
Non-standard – steel sheet 0,5 or 0,7 mm thick					
2	OB-33/ S=..... / L=.....				

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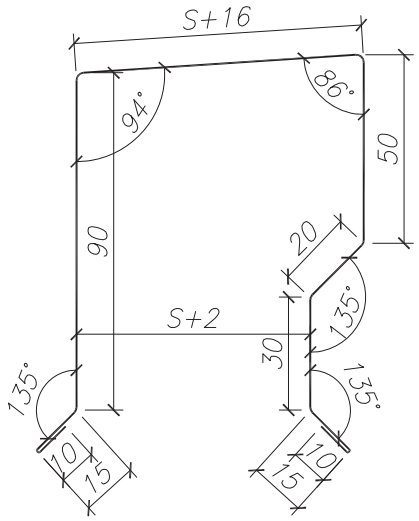
Flashing OB-34

attic – variant I

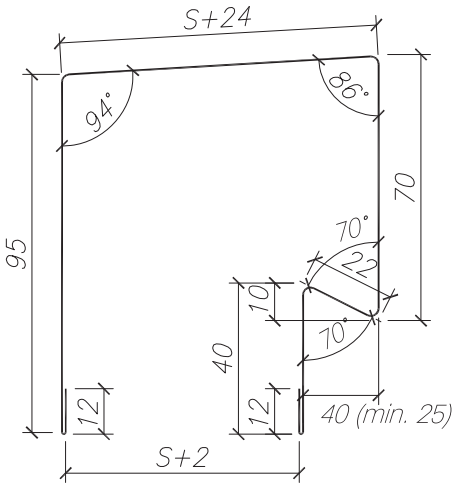
Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-34/40	40	-	6000	7,10
2	OB-34/60	60			7,58
3	OB-34/80	80			8,06
4	OB-34/100	100			8,54
5	OB-34/120	120			9,02
Non-standard – steel sheet 0,5 or 0,7 mm thick					
6	OB-34/ S= ..... / α= ..... / L=.....				



Flashing OB-35

attic – variant II

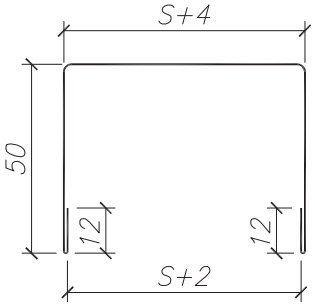
Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-35/40	40	-	6000	7,56
2	OB-35/60	60			8,04
3	OB-35/80	80			8,52
4	OB-35/100	100			9,00
5	OB-35/100	120			9,48
Non-standard – steel sheet 0,5 mm thick					
6	OB-35/ S= ..... /α = .../ L=.....				



Flashing OB-36

edge channel section

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard - steel sheet 0,5 mm thick					
1	OB-36/40	40	-	6000	4,03
2	OB-36/60	60			4,51
3	OB-36/80	80			4,99
4	OB-36/100	100			5,47
5	OB-36/120	120			5,95
6	OB-36/160	160			6,91
7	OB-36/200	200			7,87
Non-standard – steel sheet 0,5 or 0,7 mm thick					
8	OB-36/ S =..... / L = ...				



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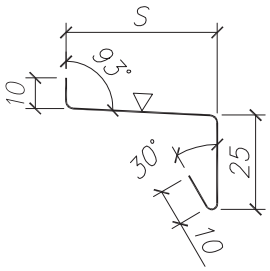
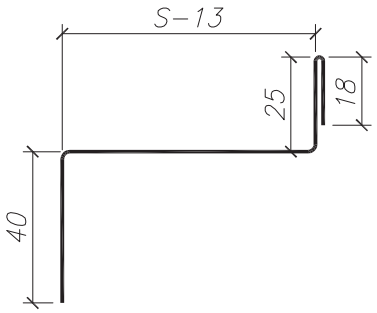
Flashing OB-37
window cill

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 0,5 mm thick					
1	OB-37/40	40	93	6000	2,04
2	OB-37/60	60			2,52
3	OB-37/80	80			3,00
4	OB-37/100	100			3,48
Non-standard – steel sheet 0,5 or 0,7 mm thick					
5	OB-37/ S= ..... / L=.....				



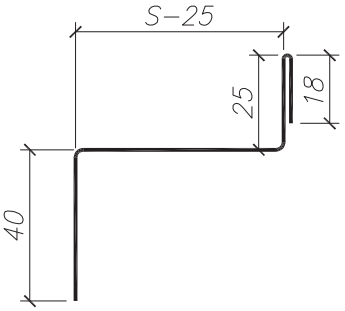
Flashing OB-38
edge bar for S panels

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1 mm thick					
1	OB-38/60	60	-	6000	6,24
2	OB-38/80	80			7,20
3	OB-38/100	100			8,16



Flashing OB-39
edge bar for U panels

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1 mm thick					
1	OB-39/60	60	-	6000	5,66
2	OB-39/80	80			6,62
3	OB-39/100	100			7,58
4	OB-39/120	120			8,54



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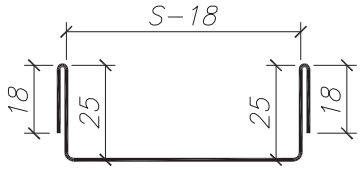
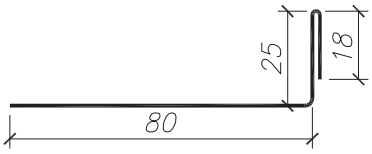
Flashing OB-40
edge bar

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1 mm thick					
1	OB-40/60	60	-	6000	6,14
2	OB-40/80	80			7,10
3	OB-40/100	100			8,06



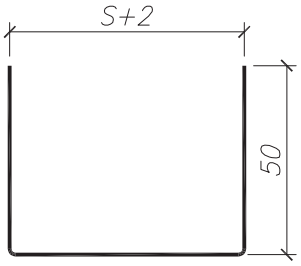
Flashing OB-41
edge bar

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard – steel sheet 1 mm thick					
1	OB-41/60	60	-	6000	4,94
2	OB-41/80	80			5,90
3	OB-41/100	100			6,86
4	OB-41/120	120			7,82



Flashing OB-42
edge channel section

Item	Symbol	S [mm]	α [°]	L [mm]	Weight [kg]
Standard - steel sheet 1 mm thick					
1	OB-42/40	40	-	6000	6,81
2	OB-42/60	60			7,77
3	OB-42/80	80			8,73
4	OB-42/100	100			9,69
5	OB-42/120	120			10,65
6	OB-42/160	160			12,57
7	OB-42/200	200			14,50
Non-standard – steel sheet 1 mm thick					
8	OB-42/ S =..... / L = ...				



GÓR-STAL

ORDER FORM of

SANDWICH PANELS

ORDER

No ..... of .....

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

Gór-Stal sp. z o.o.
ul. Przemysłowa 11
38-300 Gorlice
Phone/Fax: + 48 18 353 98 00

Account No: 79 1140 1081 0000 5859 5500 1001

Agent:

Commercial Terms

Payment method:

Advance (%): payable until:

Maturity:

Credit limit:

Remarks:

ORDERING PARY (name, company address, phone/fax, TIN)

Agent:

REMARKS:

DELIVERY PLACE (recipient, address, city, post code, phone/fax)

	Plate type:	**Plate thickness[mm]:**	**Plate profile:**		**Plate width [mm]:**	**Colour RAL**		**Quantity**		**Net price: Unit/value**	
	GORLICKA S GORLICKA U GORLICKA D GORLICKA CH GORLICKA S GS-PIR GORLICKA U GS-PIR GORLICKA D GS-PIR GORLICKA CH GS-PIR	40 60 80 100 60 80 100 120 40 60 80 100 120 160 100 120 160 200 40 60 80 100 60 80 100 120 40 60 80 100 120 160 100 120 160 200	L - Linear M - Microprofiled F - Wavy R - Grooving T- Trapezoidal S - Smooth		1000 1140						
			ext.	int.		ext.	int.	L [m]	pcs.	EUR/m^2	EUR
1.											
2.											
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											
IN TOTAL:								[m^2]:		EUR:	

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ORDER FORM of

TYPICAL FLASHING

GÓR-STAL

ORDER

No ..... of .....

TO SANDWICH PANELS ORDER

No ..... of .....

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

Gór-Stal sp. z o.o.
ul. Przemysłowa 11
38-300 Gorlice
Phone/Fax: +48 18 353 98 00

Account No: 79 1140 1081 0000 5859 5500 1001

Agent:

Commercial Terms

Payment method:

Advance (%): payable until:

Maturity:

Credit limit:

Remarks:

ORDERING PARY (name, company address, phone/fax, TIN)

DELIVERY PLACE (recipient, address, city, post code, phone/fax)

Flashing length: 6 m.
Default α = 90°
Shape of flashing acc. to technological catalogue

Ordering Party's signature

Symbol	S [mm]	α [°]	Thickness [mm]	Length [mm]	Quantity [szt.]	Total weight [kg]	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 - 17b		-					
OB - 18		-					
OB - 19		-					
OB - 20		-					
OB - 21		-					
OB - 21a		-					
OB - 21b		-					
OB - 22							
OB - 23							
OB - 24		-					
OB - 25							
OB - 26							
OB - 26a							
OB - 27	-	-					
OB - 28	-	-					
OB - 29							
OB - 30							
OB - 31							
OB - 32							
OB - 32a							
OB - 33	-	-					
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 [szt/mb]	Colour RAL	
Bolts fixing the plate to the structure	Stal GT6				
	Stal G12				
	Wood / Concrete				
Flashing bolts					
Rivets					
Rivets	PE				
Rivets	PES				
Rivets	PUS				
Rivets					
Saddle washer	35-35	-			
Washer	Pm1	-			
Covering caps	-----				
Connector	ALF				

GÓR-STAL

ORDER FORM of

INDIVIDUAL FLASHING

ORDER

No ..... of .....

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

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ul. Przemysłowa 11
38-300 Gorlice
Phone/Fax: + 48 18 353 98 00

Account No: 79 1140 1081 0000 5859 5500 1001

Agent:

DELIVERY PLACE (recipient, address, city, post code, phone/fax)

SUPPLIER (name, company address, phone/fax, TIN)

No	Plate thickness [mm]	Colour RAL	Length [m]	Quantity [pcs]

No	Plate thickness [mm]	Colour RAL	Length [m]	Quantity [pcs]

No	Plate thickness [mm]	Colour RAL	Length [m]	Quantity [pcs]

No	Plate thickness [mm]	Colour RAL	Length [m]	Quantity [pcs]

REMARK!
Flashing will be made acc. to the above drawings and their dimensions.

Ordering Party's signature

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GÓR-STAL

NARODOWY INSTYTUT ZDROWIA PUBLICZNEGO
- PAŃSTWOWY ZAKŁAD HIGIENY

NATIONAL INSTITUTE OF PUBLIC HEALTH
- NATIONAL INSTITUTE OF HYGIENE

ZAKŁAD HIGIENY KOMUNALNEJ
DEPARTMENT OF ENVIRONMENTAL HYGIENE

24 Chocimska 00-791 Warsaw • Phone (22) 5421354; (22) 5421349 • Fax (22) 5421287 • e-mail: sek-zhk@pzh.gov.pl

ATEST HIGIENICZNY

HK/B/0250/01/2012

ORYGINAŁ

HYGIENIC CERTIFICATE

Wyrób / product: **Płyta warstwowa GORLICKA GR 1000S, GR 1000u, GR 1000CH, GR 1000D z rdzeniem ze sztywnej pianki poliuretanowej w okładzinach z blachy stalowej ocynkowanej powlekanej powłokami organicznymi.**

Zawierający / containing: stal ocynkowaną, poliuretan, żywice syntetyczne i inne składniki wg dokumentacji producenta.

Przeznaczony do / destined: stosowania na ściany zewnętrzne i wewnętrzne, pokrycia dachowe w budownictwie obiektów: usługowych, handlowych, przemysłowych, branży spożywczej, chłodniczych, mieszkaniowych i użyteczności publicznej, w tym obiektach służby zdrowia.

Wymieniony wyżej produkt odpowiada wymaganiom higienicznym przy spełnieniu następujących warunków / is acceptable according to hygienic criteria with the following conditions:

W przypadku stosowania w obiektach służby zdrowia wyrób musi spełniać wymagania rozporządzenia Ministra Zdrowia z dnia 02 lutego 2011r (Dz. U. z dn. 11 lutego 2011, nr 31, poz. 158) w sprawie wymagań, jakim powinny odpowiadać pod względem fachowym i sanitarnym pomieszczenia i urządzenia zakładu opieki zdrowotnej.
Wyrób nie może być źródłem emisji lotnych związków organicznych do środowiska i wnętrz pomieszczeń.
Atest nie dotyczy bezpośredniego kontaktu wyrobu z żywnością.
Atest nie dotyczy cech użytkowych wyrobu.

Wytwórca / producer:

„GÓR-STAL" Spółka z o. o.
38-300 Gorlice
ul. Przemysłowa 11

Niniejszy dokument wydano na wniosek / this certificate issued for:

„GÓR-STAL" Spółka z o. o.
38-300 Gorlice
ul. Przemysłowa 11

Atest może być zmieniony lub unieważniony po przedstawieniu stosownych dowodów przez którąkolwiek stronę. Niniejszy atest traci ważność po 2017-03-30 lub w przypadku zmian w recepturze albo w technologii wytwarzania wyrobu.

The certificate may be corrected or cancelled after appropriate motivation. The certificate loses its validity after 2017-03-30 or in the case of changes in composition or in technology of production.

Data wydania atestu higienicznego: 30 marca 2012

The date of issue of the certificate: 30th March 2012

Kierownik
Zakładu Higieny Komunalnej
dr Bożena Krogulska

www.pzh.gov.pl

POLSKIE CENTRUM CERTYFIKACJI

CERTYFIKAT

POLSKIE CENTRUM CERTYFIKACJI

potwierdza, że:

Gór-Stal Sp. z o.o.
ul. Przemysłowa 11, 38-300 Gorlice

stosuje System Zarządzania Jakością i spełnia wymagania

PN-EN ISO 9001:2009

w zakresie:

wytwarzania płyt warstwowych z rdzeniem poliuretanowym
oraz paneli termoizolacyjnych z rdzeniem poliuretanowym.

Niniejszy certyfikat pozostaje w mocy pod warunkiem spełnienia wymagań umowy nr 51/2013 oraz załącznika nr SWC_ PW-03705-13.

Certyfikacji udzielono:	20.05.2013
Certyfikat ważny do:	19.05.2016
Nr rejestracyjny certyfikatu:	PW-03705-13
Data wydania certyfikatu:	20.05.2013

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

PCA Polskie Centrum Akredytacji CERTYFIKACJA SYSTEMÓW ZARZĄDZANIA

AC 082
QMS

Dyrektor
Mirosław Błaut

Polskie Centrum Certyfikacji Sp. z o.o. ul. Piłsudskiego 74, 50-020 Wrocław

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11 Przemysłowa Street
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Opracował: mgr. inż. Szymon Jamro, Wydanie II, Gorlice 03.2008 r.
Aktualizacja: Elżbieta Kuta, Maciej Kluba, maj 2016 r.

GÓR-STAL
SANDWICH PANELS

GÓR-STAL sp. z o.o.
ul. Przemysłowa 11, 38-300 Gorlice

www.gor-stal.pl

Factory of Sandwich Panels GORLICKA
ul. Przemysłowa 11, 38-300 Gorlice
tel./fax: +48 18 353 98 00
gorlice@gor-stal.pl

Factory of termPIR Insulation Boards
ul. Adolfa Mitery 9, 32-700 Bochnia
tel./fax: +48 14 698 20 60
bochnia@gor-stal.pl