

TECHNICAL SOLUTIONS CATALOGUE – CONTENTS



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TECHNICAL SOLUTIONS CATALOGUE – GENERAL INFORMATION



□ INTRODUCTION

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

D ABOUT THE COMPANY

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

PRODUCTS

Gór-Stal® offers a wide range of modern wall, roof and coldstore sandwich panels with polyisocyanurate (PIR) core. Sandwich panels consist of two steel claddings and a structural insulation core of rigid, HCFC-free self-extinguishing PIR foam with very good thermal insulation. When building with sandwich panels, you can create a building with excellent insulation parameters, with a significant reduction in the thickness and weight. Speed and ease of assembly, possibility of carrying out the work even in difficult weather conditions, low cost of implementation and ease of wall cleaning, modernity and versatility of the system make sandwich panels the best building material. A wide range of colors and varied shape of panels profiles allow for the implementation of ambitious architectural projects. Gór-Stal® owes its leader position in the production of sandwich panels to high technological advancement of production lines, well-qualified team of employees and special attention to the quality of the products.

□ STRUCTURE OF PANELS

Sandwich panels have one type of core ie. polyisocyanurate (PIR) foam with a density of 37,5 kg/m³ (+/-10%) and thermal conduction coefficient λ =0,022 W/m·K. (for 2020 new panels will be available ie. MAX with a core and a coefficient of λ =0,019 W/m·K). Isocyanurate structures of PIR foams decompose at temperatures above 300 °C. 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 sandwich panels. Due to the increased anticorrosion requirements, it is possible to make panels with metal plate dedicated for environments C4 and C5, and the prevailing aggressive environments inside the buildings. It is possible to use stainless steel 1.4301 coating. Panels are protected against mechanical damage that may occur during transport or installation with a protective foil.

CERTIFICATES

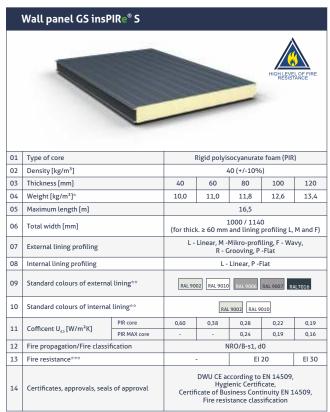
Sandwich panel have the following certificates and technical approvals:

- · Quality Management System certificate,
- CE declaration of conformity in accordance with EN 14509,
- Certificate of Constancy of Performance EN 14509, according to Regulation (EU) No 305/2011,
- · Classifications: fire resistance rating, reaction to fire, fire retardancy,
- Hygienic Approval allows for use in, commercial, industrial, food processing, refrigeration facilities, residential
 and public buildings, including health services.

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

TECHNICAL SOLUTIONS CATALOGUE – GENERAL INFORMATION





,	Wall panel GS insP	IRe® U							
						HIGHLEVE	EL OF FIRE		
01	Type of core			Rigid polyis	ocyanurat	e foam (PIR	l)		
02	Density [kg/m³]				0 (+/-10%	5)			
03	Thickness [mm]		60	80	100	120	140		
04	Weight [kg/m²]*		11,3	12,1	12,9	13,7	14,5		
05	Maximum length [m]		16,5						
06	Total width [mm]		1000						
07	External lining profiling		L - Linear, M -Mikro-profiling, F - Wavy, R - Grooving, P - Flat						
08	Internal lining profiling			L-	Linear, P -	Flat			
09	Standard colours of externa	l lining**	RAL 9002 RAL 9010 RAL 9006 RAL 9007 RAL 5010 RAL 7035 RAL 3000 RAL 6011 RAL 7016 RAL 8017						
10	Standardowe kolory okładzi wewnętrznej**	ny		RA	L 9002 RAL 9	010			
11	Cofficent U _{ds} [W/m²K]	PIR core	0,44	0,29	0,23	0,19	0,16		
11	Connectit O _{dS} [W/III K]	PIR MAX core	-	0,26	0,20	0,16	0,14		
12	Fire propagation/Fire classif	ication		N	RO/B-s1, c	10			
13	Fire resistance***		-	EI 15	EI	30			
14	Certificates, approvals, seals	Certif	Hygi icate of Bus	enic Certif	tinuity EN 1				

Coldstore Panel GS insPIRe® CH more information in the Coldstore panels Catalogue or at www.gor-stal.pl Rigid polyisocyanurate foam (PIR) 01 Type of core 02 Density [kg/m³] 40 (+/-10%) 03 Thickness [mm] 100 120 160 200 04 Weight [kg/m²]* 12,6 16,6 05 Maximum length [m] 16,5 1000 / 1140 (for thick. ≥ 60 mm and lining profiling L, M and F) Total width [mm] 07 External lining profiling L - Linear, M -Mikro-profiling, F - Wavy 08 Internal lining profiling L - Linear, P - Flat 09 Standard colours of external lining** RAL 9002 RAL 9010 RAL 9006 RAL 9007 RAL7016 10 Standard colours of internal lining** RAL 9002 RAL 9010 PIR core 0.22 0.18 0.14 0,11 11 Cofficent U_{ds} [W/m²K] PIR MAX core 0.19 0.16 0.12 0.10 12 Fire propagation/Fire classification NRO/B-s1, d0 Fire resistance*** 13 EI 30 DWU CE according to EN 14509, Hygienic Certificate, Certificate of Business Continuity EN 14509, 14 Certificates, approvals, seals of approval Fire resistance classification



Roof Panel GS PIR D

^{*} panels with claddings 0,5/0,5 mm

^{**} available colors depending on the thickness of the cladding, panels thicknesses and modular widths (details from the Sales Representative) RAL 9002, 9010 colours are defined by Gór-Stal as white

^{***} conditions according to fire resistance classification



PROFILATIONS



M - Mikro-profiling



L - Linear



F - Wavy

TECHNICAL SOLUTIONS CATALOGUE – GENERAL INFORMATION



▶ PRODUCTION PROGRAM

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

Wall sandwich panels:

GS insPIRe $^{\circ}$ S (standard cam-lock) - thickness: 40, 60, 80, 100 i 120 mm GS insPIRe $^{\circ}$ U (hidden cam-lock) - thickness: 60, 80, 100, 120 i 140 mm

Roof sandwich panels:

GS PIR D (roof cam-lock) - thickness: 40/80, 60/100, 80/120, 100/140, 120/160, 150/190 and 160/200 mm

Coldstore panels:

GS insPIRe® CH (cold storage cam-lock) - thickness: 100, 120, 160 i 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 sandwich panels.

D GUIDELINES FOR TRANSPORTATION

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

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

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

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

D GUIDELINES FOR MOUNTING

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

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

Typical panel mounting solutions are presented farther in this publication.

D TECHNICAL SUPPORT

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

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



APPLICATION

GS insPIRe CH / **GS insPIRe** CH MAX coldstore panel is intended to build the walls and ceilings in rooms with low temperature or in cold storage (t>0 °C) and freezers (t<0 °C), and other facilities with controlled temperature and humidity. Panels can be used to erect freestanding objects and cold rooms or freezers inside existing buildings. Panels can be assembled both vertical and horizontal, as single and multi-span elements.

PHYSICAL PROPERTIES

GS insPIRe® CH / GS insPIRe® CH MAX coldstore panel is produced in the four thicknesses of the core 100, 120, 160 and 200 mm. Panel facings are made of sheet metal galvanised on both sides according to EN 10346 with organic polyester coating 25 μ m thick. Thermal insulation core of the panels is a rigid polyisocyanurate (PIR) foam with a density of 37,5 kg/m³ (+/-10%). The heat conductivity calculation value of the foam is: λ =0,022 W/m·K (for 2020 new panels will be available MAX with a core and a coefficient of λ =0,019 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. Water and air tightness of panel joints is assured by impregnated polyurethane seals (PUS) applied in the manufacturing process.

Thickness [mm]	Weight [kg/m²]		Modular width [mm]	Length: typical/available [m]	Lining standard RAL colours		
	facings 0,5/0,5 mm**	facings 0,5/0,4 mm**			external linings*	internal linings*	
100	12,5	11,6	1000	2,0 - 12,0/16,5	7016, 9002,	9002, 9010	
120	13,3	12,4	1140 - for profilation	2,0 12,0/10,5	9006, 9007,		
160	14,8	13,9	L, M, F i P.		9010		
200	16,3	15,5					

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

Thermal performance of panels depends on the thickness of the core and is expressed as a coefficient of heat transfer through a space dividing element (shown in the table below). Acoustic parameters were determined on the basis of **EN ISO 10140-3** and **EN-ISO 354**. Coldstore plates can be used as partitions of the requirements of sound insulation no greater than those specified below. Resistance to chemical corrosion - sandwich panels can be used in environments with atmosphere corrosiveness category C1, C2, C3 according to **EN ISO 12944-2**.

□ TECHNICAL PARAMETERS OF PIR CORE

Thickness [mm]	Heat-transfer coefficient U _{d,s} [W/m²·K]	Acoustic insulation	Reaction to fire	Fire resistance	NRO
	EN 14509	EN ISO 717-1	EN 13501-1	EN 13501-2	PN-B-02867
100	0,22*/ 0,19**		B-s1, d0		
120	0,18*/ 0,16**	$R_{w} = 23 \text{ dB}$ $R_{s1} = 21 \text{ dB}$	B-s2, d0 (with	Ei30 (Conditionsaccording to	"NRO"
160	0,14*/ 0,12**	$R_{a1} = 21 \text{ dB}$ $R_{a2} = 20 \text{ dB}$	gasket EPDM)	classification)	"NKO
200	0,11*/ 0,10**	20 05			

 $^{^{\}star}$ U-factor for panels with conventional cores with coefficient $\lambda\text{=}0,022$ W/m·K

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

^{**} U-factor for panels with conventional PIR MAX cores with coefficient $\lambda = 0,019 \; W/m \cdot K$



D PANEL THICKNESS SELECTION

Panel thickness suitable for the facility is chosen by the designer depending on the temperature difference inside and outside the room.

The following table shows the values of heat flux for each sandwich panel. The recommended maximum heat flux density value for cold storage is 10 W/m².

An example of panel selection:

Internal temperature: -15 °C External temperature: +35 °C

 $\Delta t = 50 \,^{\circ}C$

Panel suitable for covering an object with an internal temperature of -15°C is GS insPIRe® CH / GS insPIRe® CH MAX with a thickness of 120 mm, for which the heat flux density is 9,24 W/m²

_			Panel type and	thickness [mm]								
Temperature difference	GS ins	PIRe S / GSinsPIRe	S MAX	GS insPI	Re CH / GSinsPIRe	СН МАХ						
Δt [°C]	60	80 100		120	160	200						
	Heat flux density [W/m²]											
10	3,73	2,78	2,22	1,85	1,38	1,11						
15	5,59	4,18	3,33	2,77	2,08	1,66						
20	7,46	5,57	4,44	3,70	2,77	2,21						
25	9,32	6,96	5,56	4,62	3,46	2,76						
30	11,19	8,35	6,67	5,55	4,15	3,32						
35	13,05	9,75	7,78	6,47	4,84	3,87						
40	14,92	11,14	8,89	7,39	5,53	4,42						
45	16,78	12,53	10,00	8,32	6,23	4,97						
50	18,64	13,92	11,11	9,24	6,92	5,53						
55	20,51	15,32	12,22	10,17	7,61	6,08						
60	22,37	16,71	13,33	11,09	8,30	6,63						
65	24,24	18,10	14,44	12,02	8,99	7,19						
70	26,10	19,49	15,56	12,94	9,69	7,74						
75	27,97	20,89	16,67	13,87	10,38	8,29						
80	29,83	22,28	17,78	14,79	11,07	8,84						
85	31,69	23,67	18,89	15,71	11,76	9,40						
90	33,56	25,06	20,00	16,64	12,45	9,95						
95	35,42	26,46	21,11	17,56	13,14	10,50						

D PACKING

Sandwich panels are packed in packages on pallets to allow their transport. A typical height of such package is **1000 mm** to **1120 mm**. The number of panels in each package depends on their thickness. Details in the table below.

Panel thickness [mm]	100	120	160	200
Maximum number of panels in one pack	11	9	7	5

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□ TABLE OF ALLOWED LOADS FOR GS insPIRe® CH / GS insPIRe® CH MAX SANDWICH PANEL

The load capacity tables have been prepared in accordance with EN 14509 for PIR core panels with facings of thickness 0.5 mm in light colors for an indoor temperature according to the table. The adopted deflection limit is L/100. In the case of a different sheet thickness, limit deflections, temperatures, fastening or dark colors of the cladding, separate calculations must be made. The minimum width of the supports is 40 mm and 60 mm (intermediate). Number of fasteners necessary for intermediate supports - 4, for extreme supports - 3. Detailed tables of permissible loads are available on the website.

Table of maximum permissible loads for GS insPIRe® CH/GS insPIRe® CHMAX in a single span, in support direction (pressure)

Panel	Internal	The load			The	maximum l	oad [kN/m	²] on the s	oan length	[m]:		
thickness	temperature [st. C]	due to:	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
100	20	SGN (q_d)	10,18	7,64	6,11	5,33	3,92	3,00	2,37	1,92	1,59	1,33
100	20	SGU (q_k)	11,82	7,68	5,23	3,67	2,63	1,92	1,43	1,07	0,82	0,63
120	0	SGN (q_d)	12,41	9,31	7,44	6,40	4,71	3,61	2,84	2,31	1,91	1,60
120	0	SGU (q_k)	15,51	10,46	7,40	5,41	4,04	3,07	2,37	1,86	1,47	1,18
160	-15	SGN (q_d)	13,44	10,08	8,06	6,72	6,28	4,81	3,80	3,08	2,54	2,13
100	-15	$SGU(q_k)$	17,31	12,23	9,11	7,01	5,50	4,39	3,55	2,90	2,39	1,98
200	-25	SGN (q_d)	18,13	13,60	10,88	10,69	7,85	6,02	4,75	3,85	3,18	2,67
200	-25	SGU (q _k)	25,53	18,15	13,61	10,54	8,33	6,69	5,44	4,47	3,71	3,10

Table of maximum permissible loads for **GS insPIRe** CH / GS insPIRe CH MAX in a single span, in non-support direction (suction)

Panel	Panel Internal temperature	The load		The maximum load [kN/m²] on the span length [m]:										
thickness	[st. C]	due to:	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0		
100	20	SGN (q_d)	10,18	7,77	5,30	3,68	2,70	2,07	1,63	1,32	1,10	0,92		
100	20	SGU (q_k)	12,14	7,97	5,48	3,89	2,83	2,09	1,57	1,20	0,93	0,73		
120 160	0	SGN (q_d)	10,36	7,77	6,22	4,41	3,24	2,48	1,96	1,58	1,31	1,10		
200	-25	$SGU(q_k)$	14,36	9,40	6,46	4,57	3,29	2,41	1,79	1,35	1,02	0,78		

Table of maximum permissible loads for **GS insPIRe® CH / GS insPIRe® CH MAX** in a single span, in non-support direction (suction)

Panel	Internal	The load			The	maximum l	oad [kN/m	²] on the sp	oan length	[m]:		
thickness	temperature [st. C]	due to:	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
100	20	SGN (q_d)	7,57	5,66	3,66	2,34	1,61	1,17	0,88	0,69	0,56	0,46
100	20	$SGU(q_k)$	12,57	8,71	6,43	4,90	3,79	2,97	2,36	1,90	1,55	1,26
120	0	SGN (q_d)	8,24	6,20	4,98	3,87	2,77	2,08	1,62	1,29	1,06	0,88
120		$SGU(q_k)$	16,08	11,30	8,45	6,56	5,17	4,14	3,35	2,75	2,27	1,89
160	-15	SGN (q_d)	6,91	5,18	4,15	3,46	2,96	2,60	2,31	2,08	1,80	1,51
100	-13	$SGU(q_k)$	17,54	12,60	9,63	7,65	6,23	5,18	4,33	3,65	3,12	2,67
200	-25	SGN (q_d)	7,58	5,69	4,55	3,79	3,25	2,84	2,52	2,27	2,06	1,89
200	-25	SGU (q _k)	25,78	18,60	14,25	11,35	9,28	7,74	6,50	5,52	4,71	3,51

Table of maximum permissible loads for **GS insPIRe® CH / GS insPIRe® CH MAX** in a multiple span, in support direction (pressure)

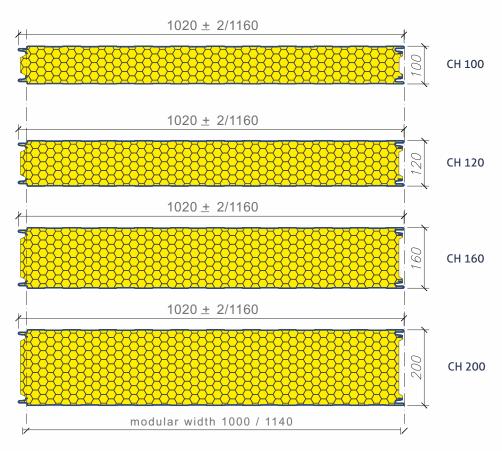
Panel Internal		The load	The maximum load [kN/m²] on the span length [m]:										
thickness	temperature [st. C]	due to	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	
100	20	$SGN(q_d)$	4,14	3,11	2,49	2,07	1,52	1,11	0,85	0,67	0,54	0,45	
100	20	SGU (q _k)	12,82	8,91	6,59	5,04	3,91	3,08	2,46	1,99	1,62	1,34	
120	0	$SGN(q_d)$	4,14	3,11	2,49	1,52	0,92	0,59	0,39	0,27	0,200	0,15	
120		SGU (q_k)	15,16	10,55	7,82	6,04	4,72	3,74	2,99	2,42	1,98	1,63	
160	15	$SGN(q_d)$	4,14	3,11	2,49	1,94	1,10	0,60	0,32	0,15	-	-	
100	-15	$SGU(q_k)$	16,05	11,31	8,51	6,67	5,39	4,45	3,66	3,05	2,55	2,15	
200	25	SGN (q _d)	4,14	3,11	2,49	1,68	0,81	0,38	-	-	-	-	
200	-25	SGU (q _k)	23,63	16,71	12,61	9,92	8,04	6,65	5,53	4,62	3,89	3,30	

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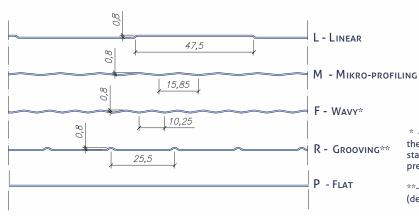
- ☐ GS insPIRe® CH/ GS insPIRe® CH MAX panel manufacturing program:
 - panel thicknesses
 - profiles of outer and inner facing



PANEL THICKNESS



External lining profiles



- * Profiling used for new orders as of February 2020. In the case when ordering panels for existing casings, please state this fact when placing the order and provide the previous order number as a reference.
- **- for module 1140 performed after prior arrangement (details from Sales Representative)

Internal lining profiles





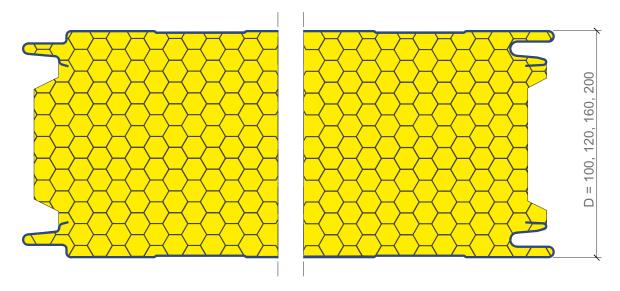
Example details of cooling and production rooms constructed with sandwich panels GS insPIRe® CH / GS insPIRe® CH MAX

Lock and cam-lock of coldstore panels	011
Mounting of cold store panels. Rooms with positive temperature	012
Corner of the cold store wall. Option I	013
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Assembly detail of the partition wall by the floor	018
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Detail of the cold storage door assembly - Horizontal review	020
Detail of the cold storage door assembly - Vertical review	021

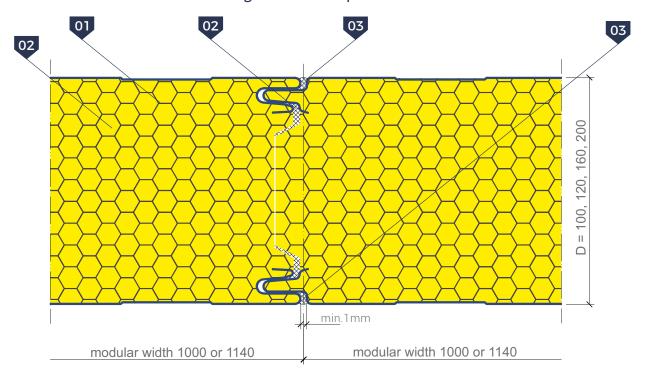
□ Lock and cam-lock of coldstore panels



Shape of the coldstore panel lock



Joining the coldstore panels



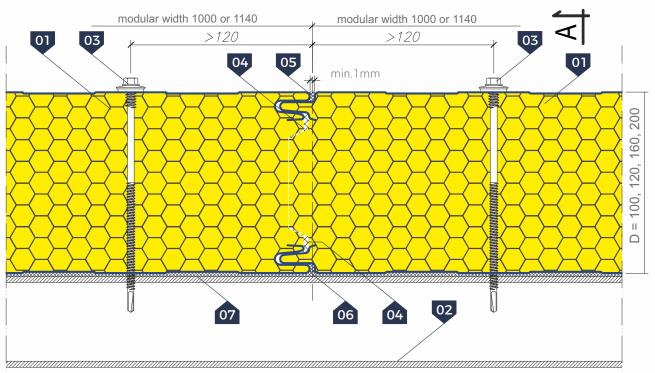
□ LEGEND:

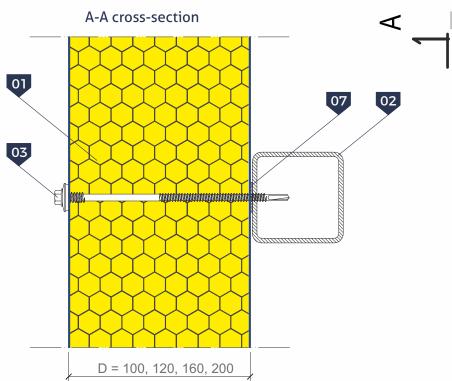
- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Polyurethane mounting foam (applied on assembly)
- 03. Permanently plastic mass (applied during assembly)

SCALE 1:2 // PAGE: 11

Mounting the coldstore panels Rooms with positive temperature







□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Supporting structure
- 03. Stainless steel self-drilling fastener for mounting sandwich panels
- 04. Polyurethane mounting foam
- 05. Permanently plastic sealing compound
- 06. Permanently plastic sealing compound
- 07. Polyethylene, self-adhesive sealing tape (PES)
- NOTE: fasten each panel along its length to a structure with a minimum of three cam-locks (this applies to full-width panels).

STRONA: 12 // SCALE 1:2.5

Corner of the cold store wall Option I





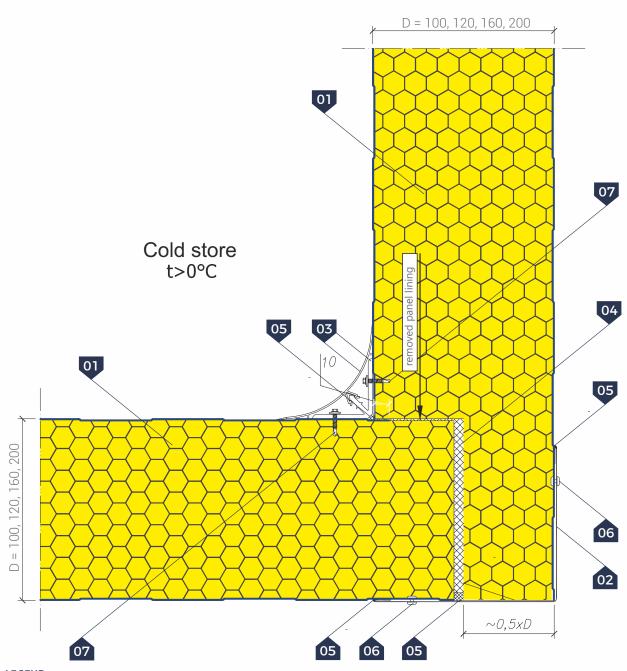
LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Masking flashing
- 03. **PVC** corner profile
- 04. Polyurethane mounting foam
- 05. Permanently plastic sealing compound06. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 07. Self-drilling stainless fastener with seal

PAGE: 13 SCALE 1:2.5

Corner of the cold store wall Option II

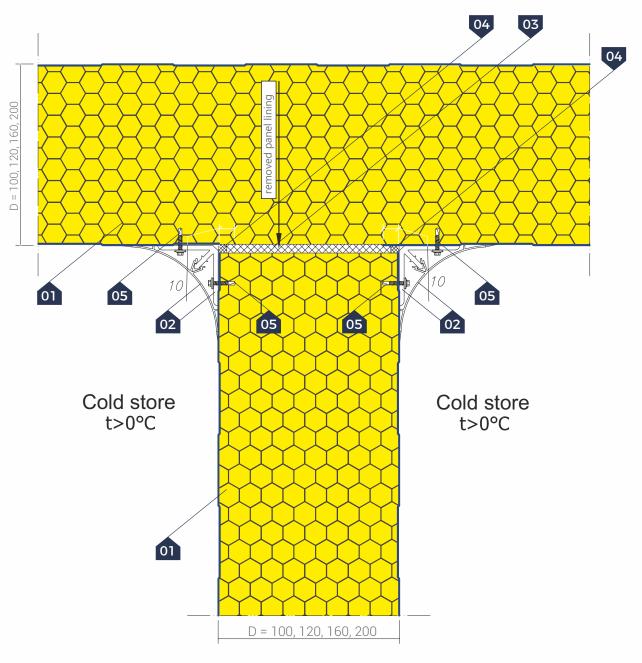




- □ LEGEND:
 - 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
 - 02. Masking flashing
 - 03. **PVC** corner profile
 - 04. Polyurethane mounting foam
 - 05. Permanently plastic sealing compound
 - 06. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
 07. Self-drilling stainless fastener with seal

D Joining the partition wall with the external wall





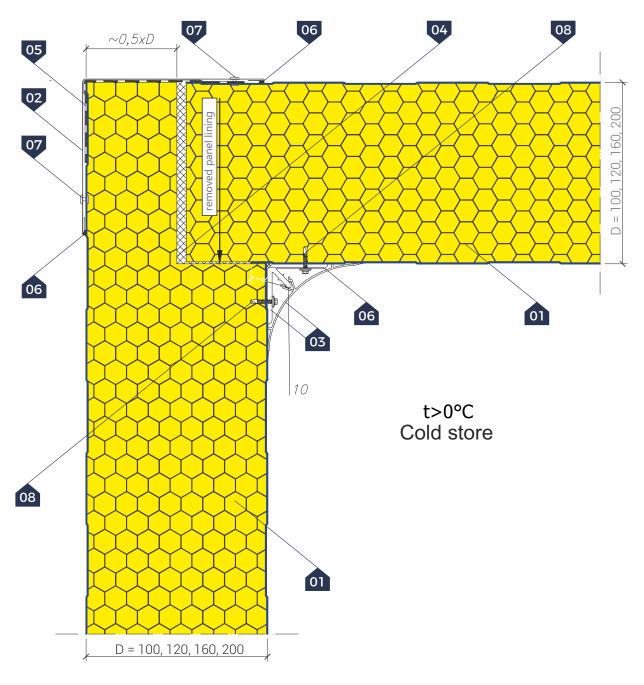
□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. **PVC** corner profile
- 03. Polyurethane mounting foam (applied on assembly)
- 04. Permanently plastic sealing compound
- 05. Self-drilling stainless fastener with seal

SCALE **1:2.5** PAGE: **15**

Corner of the wall panel and the roof panel





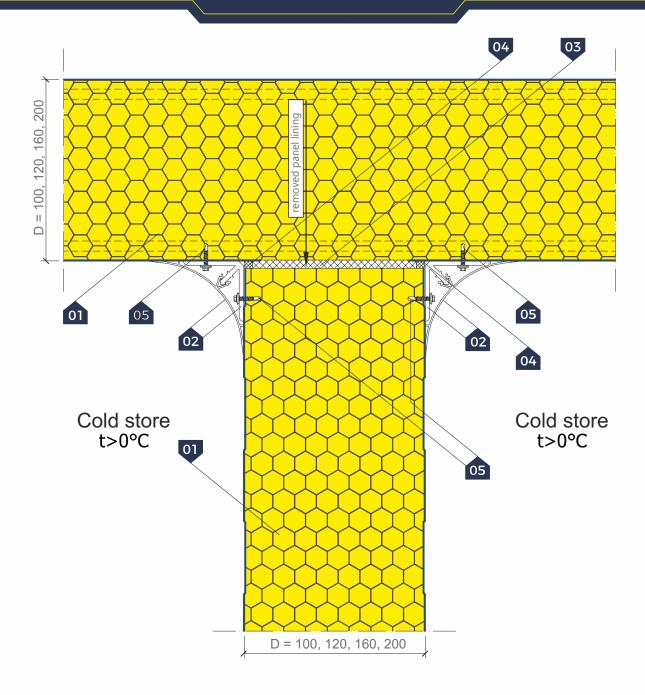
□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Masking flashing
- 03. **PVC** corner profile
- 04. Polyurethane mounting foam
- 05. Vapour control layer bitumen tape or polyethylene foil
- 06. Permanently plastic sealing compound
- 07. Self-drilling connector for steel sheets or rivet 4.0 x 8.0
- 08. Self-drilling stainless fastener with seal

PAGE: **16** // SCALE **1:2.5**

Corner of the wall panel and the roof



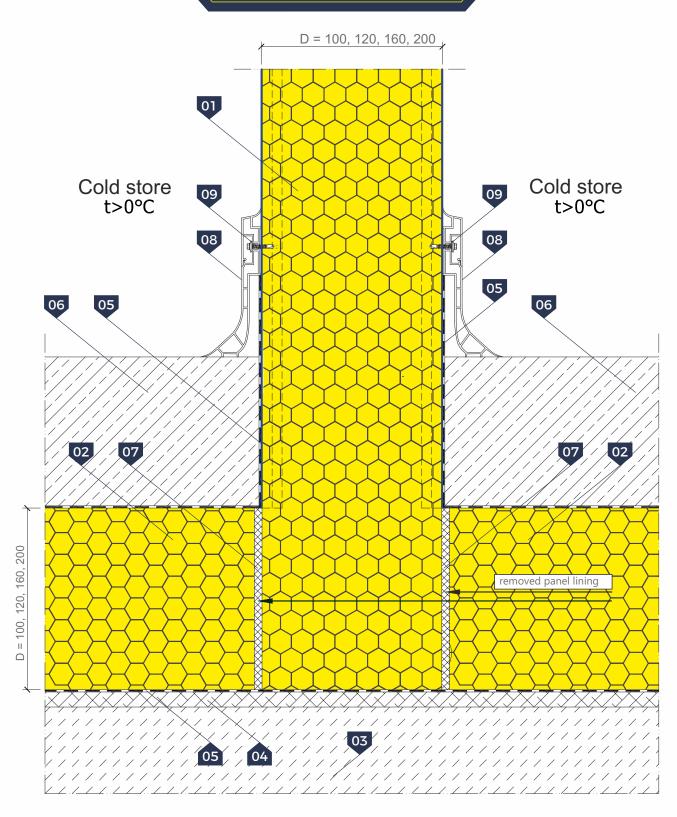


- **□ LEGEND**:
 - 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
 - 02. **PVC** corner profile
 - 03. Polyurethane mounting foam
 - 04. Permanently plastic sealing compound
 - 05. Self-drilling stainless fastener with seal
- igtriangle NOTE: The cladding is removed only when the wall runs perpendicular to the locks of the floor slab

SCALE 1:2.5 PAGE: 17

Partition wall at the floor





□ LEGEND:

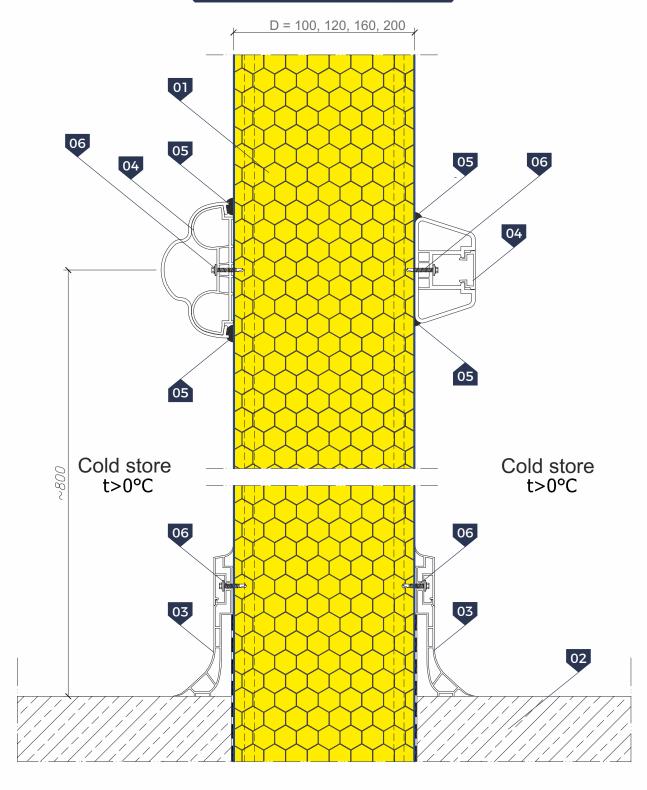
- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. termPIR inulation boards
- 03. Concrete floor plate
- 04. Cement levelling layer
- 05. Vapour control layer felt or PE foil

- 06. Concrete floor acc. to architectural design
- 07. Polyurethane mounting foam
- 08. PVC baseboard
- 09. Self-drilling stainless fastener with seal

PAGE: 18 // SCALE 1:2.5

Profiles securing the wall panel



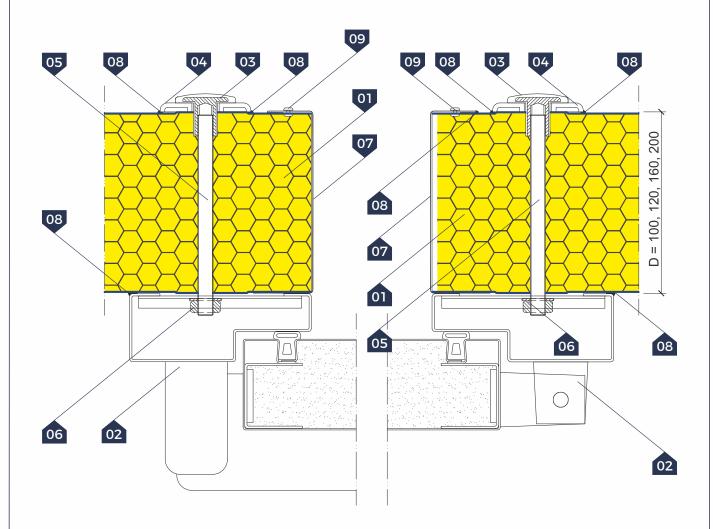


□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Concrete floor acc. to architectural design
- 03. PVC baseboard
- 04. **PCW** bumper strip
 05. Permanently plastic sealing compound
- 06. Self-drilling stainless fastener with seal

Mounting of the cold store door Horizontal cross-section



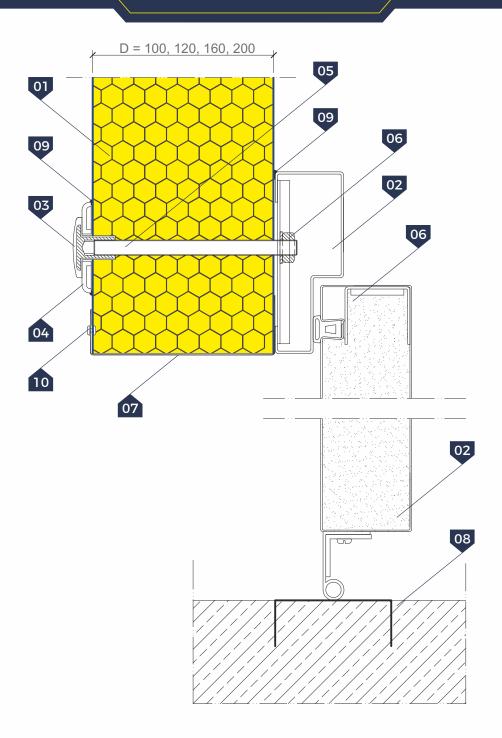


□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Cold store door
- 03. **PVC** insulation ring with steel insert
- 04. **PVC** mounting washer
- 05. Steel galvanized threaded bar Ø 10
- 06. Steel galvanized nut M10 with washer Ø 21 / Ø 10.5
- 07. Closing flashing
- 08. Permanently plastic sealing compound
- 09. Self-drilling connector for steel sheets or rivet 4.0 x 8.0

Mounting of the cold store door Vertical cross-section





□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Cold store door
- 03. **PVC** insulation ring with steel insert
- 04. **PVC** mounting washer
- 05. Steel galvanized threaded bar Ø 10
- 06. Steel galvanized nut M10 with washer Ø 21 / Ø 10.5
- 07. Closing flashing
- 08. Concrete floor acc. to architectural design
- 09. Permanently plastic sealing compound
- 10. Self-drilling connector for steel sheets or rivet 4.0 x 8.0

SCALE **1:2.5** // PAGE: **21**



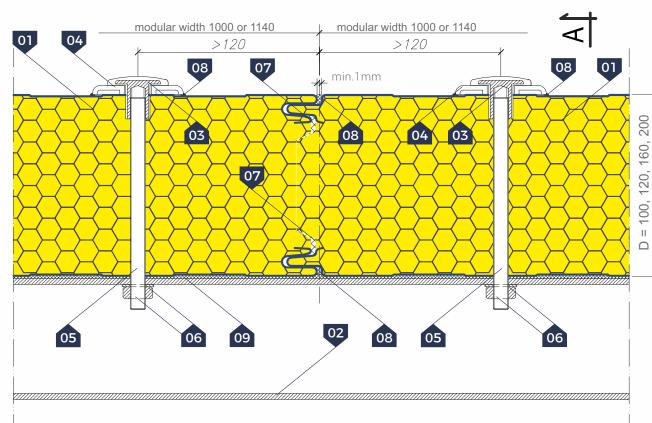
Example details of freezers and warehouse rooms constructed with sandwich panels **GS insPIRe**® **CH / GS insPIRe**® **CH MAX**

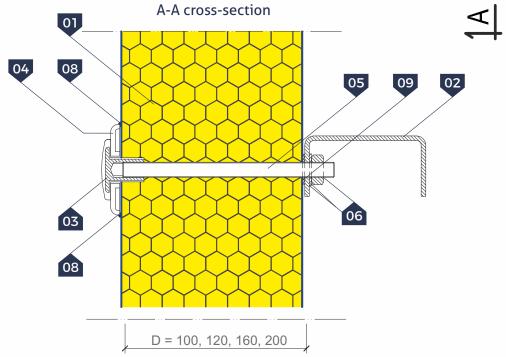
Mounting the coldstore panels. Rooms with negative temperature	023
Corner of the freezer wall. Option I	024
Corner of the freezer wall. Option II	025
Joining chambers with different temperatures	026
Corner of the wall panel and the roof panel	027
Mounting the coldstore panels to the roof support	028
Suspension of coldstore panels. Option I	029
Suspension of coldstore panels. Option II	030
Joining the partition wall with the roof	031
Freezer at the socle of the external wall. Option I	032
Freezer at the socle of the external wall. Option II	033
Partition wall at the floor. Option I	034
Partition wall at the floor. Option II	035
Mounting the freezer door. Horizontal cross-section	036
Mounting the freezer door. Vertical cross-section	037

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Mounting the coldstore panelsRooms with negative temperature







□ LEGEND:

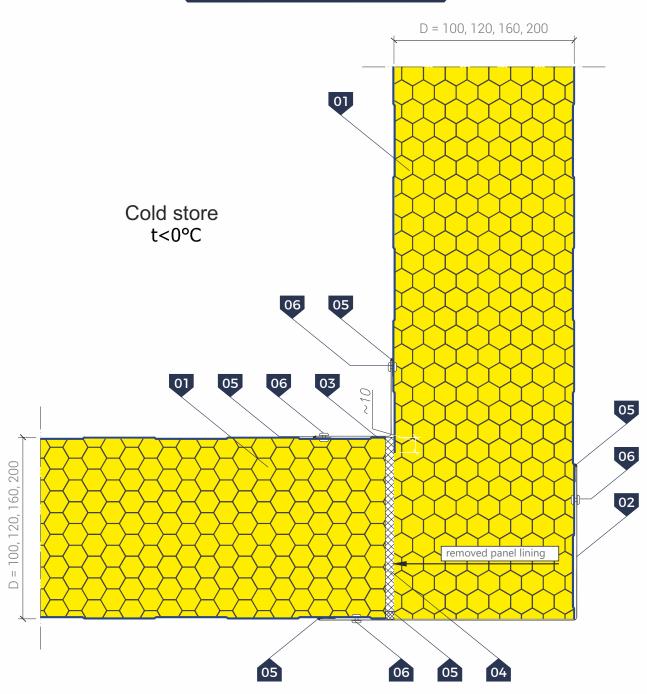
- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Supporting structure
- 03. **PVC** insulation ring with steel insert
- 04. PVC mounting washer
- 05. Steel galvanized threaded bar Ø 10

- 06. Steel galvanized nut M10 with washer Ø 21 / Ø 10.5
- 07. Polyurethane mounting foam
- 08. Permanently plastic sealing compound
- 09. Polyethylene, self-adhesive sealing tape (PES)

SCALE **1:2.5** PAGE: **23**

Corner of the freezer wall Option I





□ LEGEND:

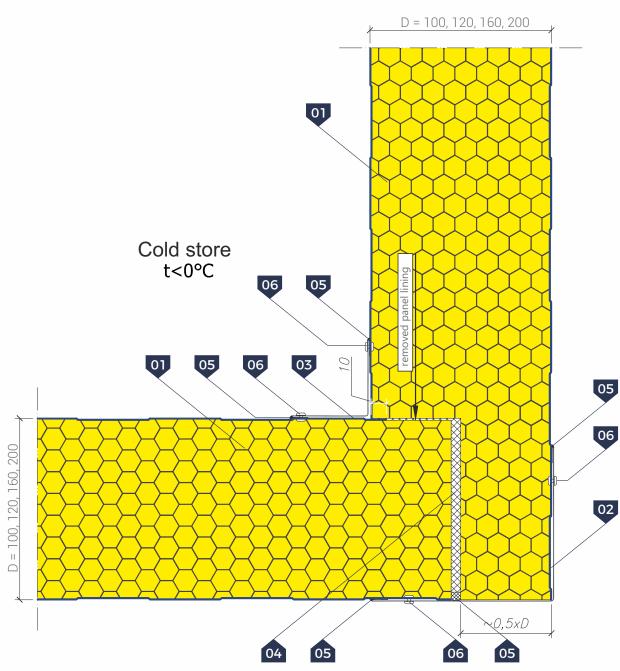
- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX

- 02. Flashing external corner 03. Flashing internal corner 04. Polyurethane mounting foam
- 05. Permanently plastic sealing compound
- 06. Self-drilling connector for steel sheets or rivet 4.0 x 8.0

PAGE: 24 **SCALE 1:2.5**

Corner of the freezer wall Option II





□ LEGEND:

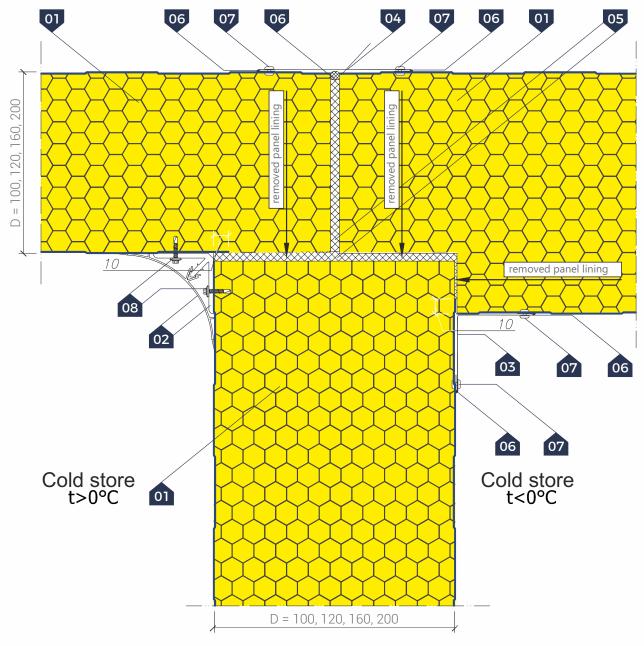
- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX 02. Flashing external corner 03. Flashing internal corner

- 04. Polyurethane mounting foam
- 05. Permanently plastic sealing compound
- 06. Self-drilling connector for steel sheets or rivet 4.0 x 8.0

SCALE 1:2.5 PAGE: **25**

Dining chambers with different temperatures





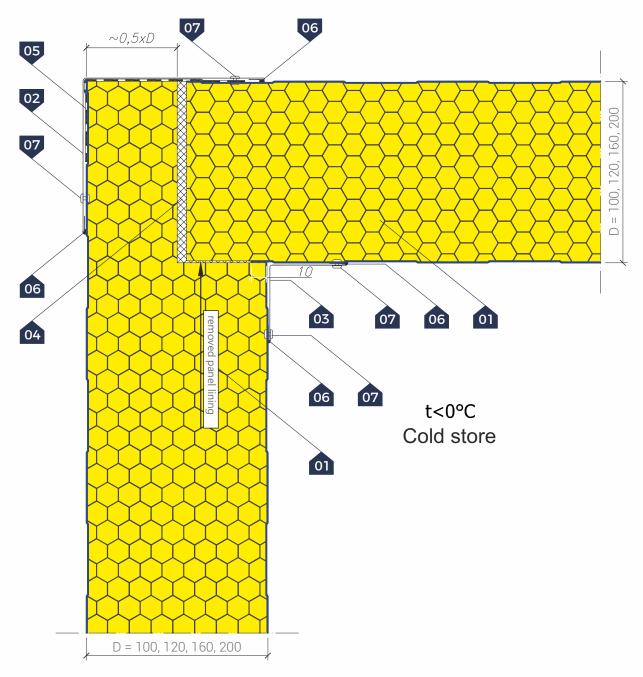
LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. **PVC** corner profile
- 03. Flashing internal corner 04. Masking flashing
- 05. Polyurethane mounting foam
- 06. Permanently plastic sealing compound
- 07. Self-drilling connector for steel sheets or rivet **4.0** x **8.0**
- 08. Self-drilling stainless fastener with seal

PAGE: 26 SCALE 1:5

Corner of the wall panel and the roof panel





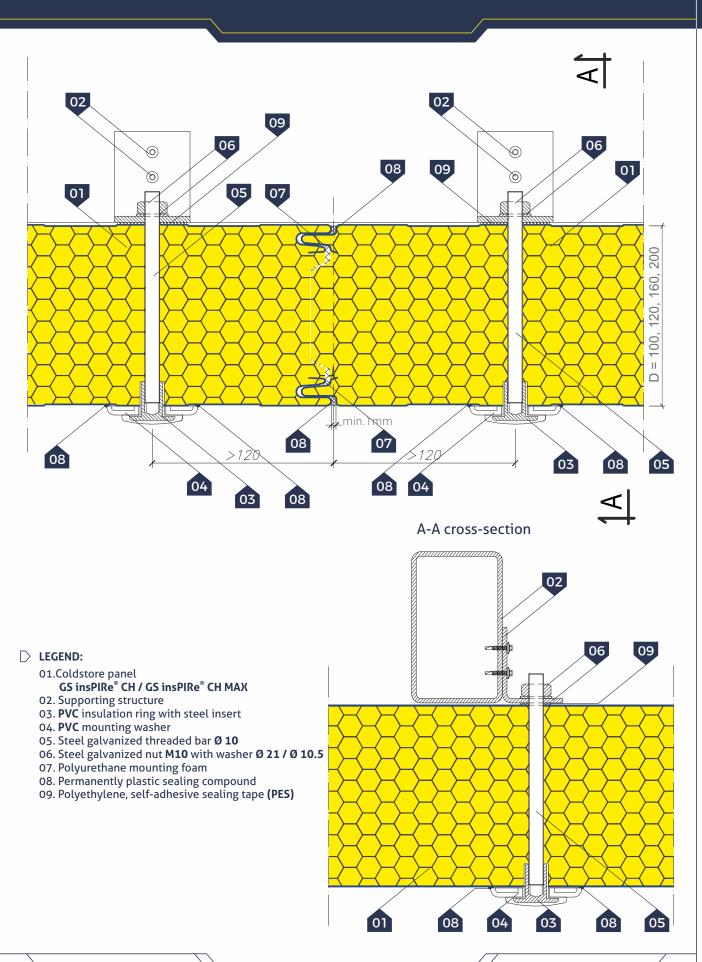
LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Flashing external corner
- 03. Flashing internal corner
- 04. Polyurethane mounting foam
- 05. Vapour control layer bitumen tape or polyethylene foil
- 06. Permanently plastic sealing compound
- 07. Self-drilling connector for steel sheets or rivet 4.0×8.0

SCALE **1:2.5** // PAGE: **27**

Mounting the coldstore panels to the roof support



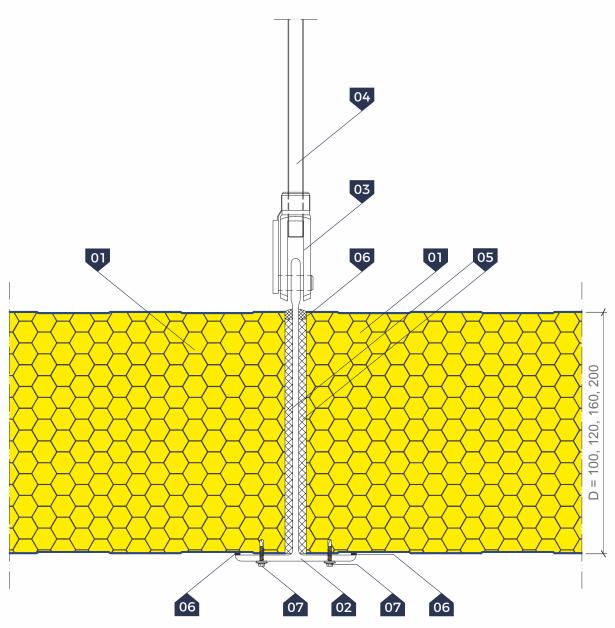


PAGE: 28

SCALE 1:2.5

Suspension of coldstore panels Option I





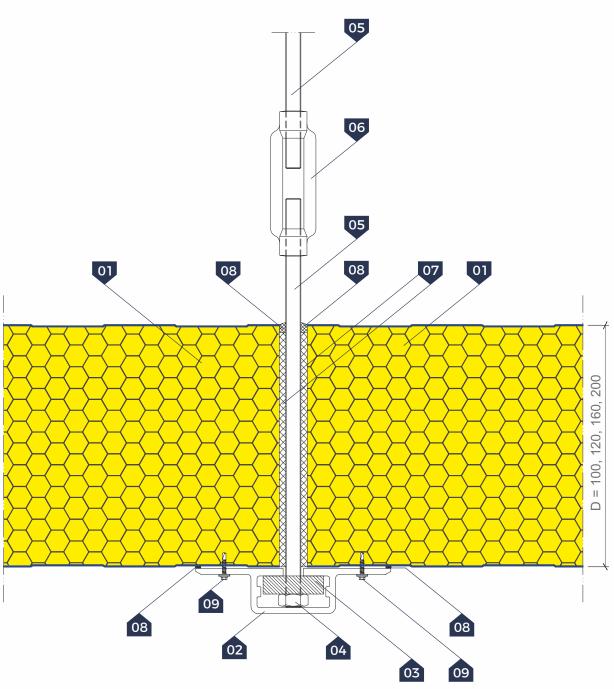
□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Polyester **T**-profile of the roof suspension 03. Steel mounting slings for **T**-profiles
- 04. Sling steel threaded bar Ø10
- 05. Polyurethane mounting foam
- 06. Permanently plastic sealing compound
- 07. Self-drilling stainless fastener with seal

SCALE 1:2.5 PAGE: 29

Suspension of coldstore panels Option II



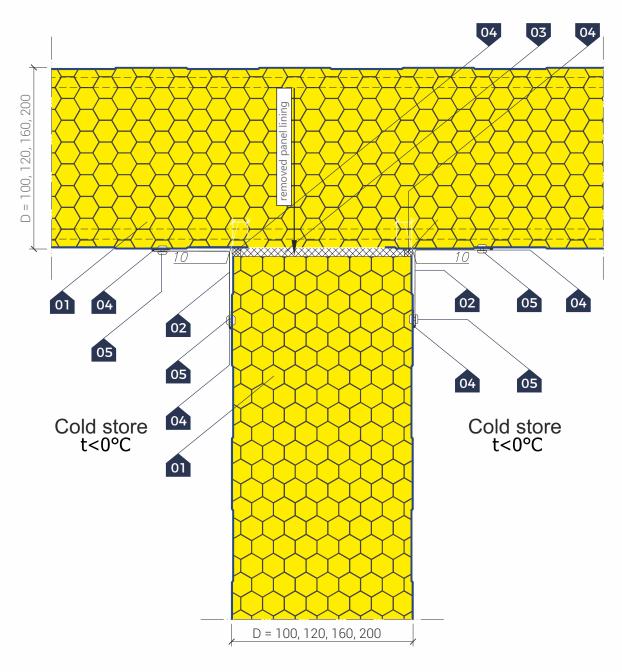


□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Polyester Ω -profile of the roof suspension
- 03. Steel spacer washer
- 04. Steel galvanized nut M10
- 05. Sling steel threaded bar Ø10
- 06. Steel tension nut
- 07. Polyurethane mounting foam
- 08. Permanently plastic sealing compound
- 09. Self-drilling stainless fastener with seal

D Joining the partition wall with the roof



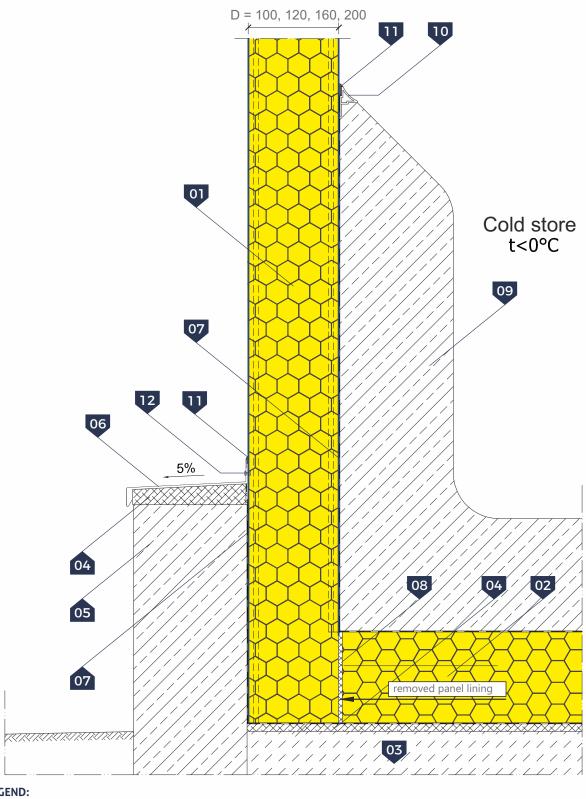


- **□ LEGEND**:
 - 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
 - 02. Flashing internal corner
 - 03. Polyurethane mounting foam
 - 04. Permanently plastic sealing compound
 - 05. Self-drilling connector for steel sheets or rivet 4.0×8.0
- NOTE: The lining is removed only if the wall is perpendicular to the locks of the roof panel

SCALE 1:2.5 PAGE: 31

Freezer at the socle of the external wall Option I





\triangleright LEGEND:

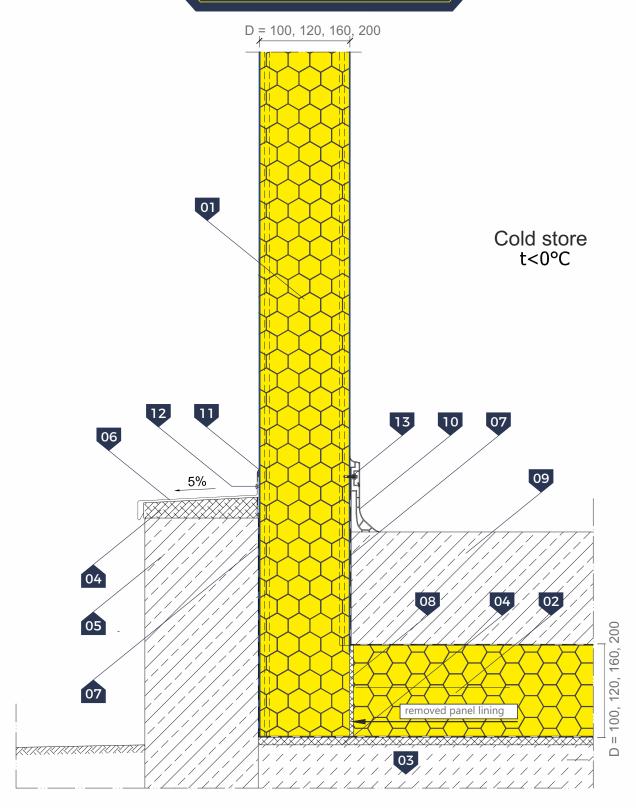
- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. termPIR inulation boards
- 03. Concrete floor plate
- 04. Cement levelling layer
- 05. Socle acc. to architectural design
- 06. Socle flashing

- 07. Vapour control layer felt or PE foil
- 08. Polyurethane mounting foam
- 09. Concrete floor with socle
- 10. Concrete socle PVC profile
- 11. Permanently plastic sealing compound
- 12. Self-drilling connector for steel sheets or rivet 4.0 x 8.0

PAGE: 32 // SCALE 1:5

Freezer at the socle of the external wall Option II





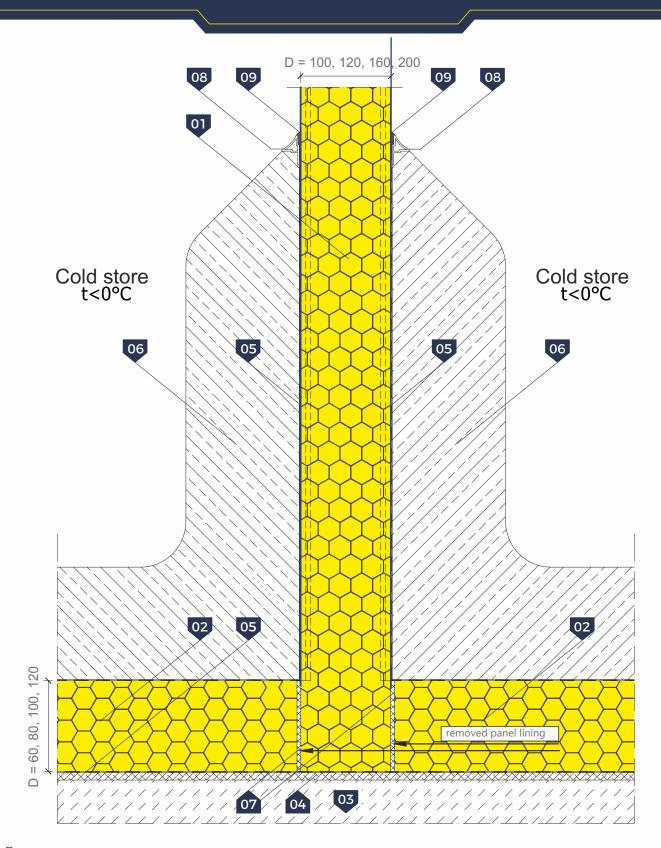
- □ LEGEND:
 - 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
 - 02. termPIR inulation boards
 - 03. Concrete floor plate
 - 04. Cement levelling layer
 - 05. Socle acc. to architectural design
 - 06. Socle flashing

- 07. Vapour control layer felt or PE foil
- 08. Polyurethane mounting foam
- 09. Concrete floor
- 10. **PVC** baseboard
- 11. Permanently plastic sealing compound
- 12. One-side rivet **4.8** x **9.5**
- 13. Self-drilling stainless fastener with seal

SCALE **1:5** // PAGE: **33**

Partition wall at the floor Option I





□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. termPIR inulation boards
- 03. Concrete floor plate
- 04. Cement levelling layer
- 05. Vapour control layer felt or PE foil

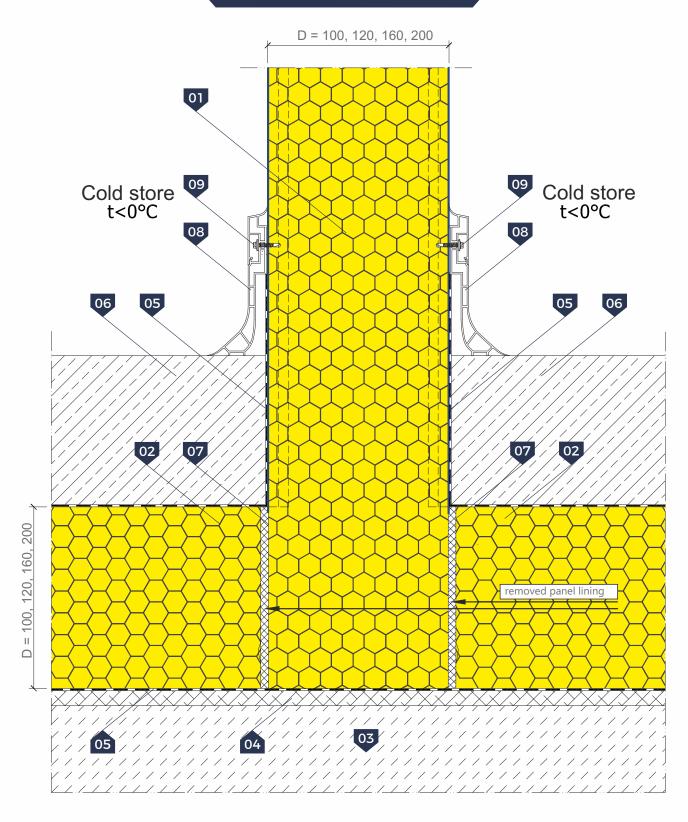
- 06. Concrete floor with socle
- 07. Polyurethane mounting foam
- 08. Concrete socle PVC profile
- 09. Permanently plastic sealing compound

PAGE: **34**

Coldstore sandwich panel GS insPIRe® CH / GS insPIRe® CH MAX

Partition wall at the floor Option II





□ LEGEND

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. termPIR inulation boards
- 03. Concrete floor plate
- 04. Cement levelling layer
- 05. Vapour control layer felt or PE foil

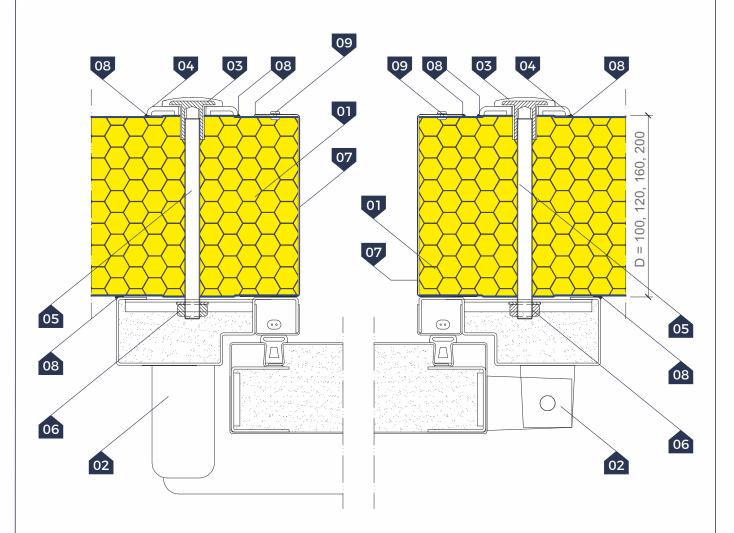
- 06. Concrete floor acc. to architectural design
- 07. Polyurethane mounting foam
- 08. PVĆ baseboard
- 09. Self-drilling stainless fastener with seal

SCALE **1:2.5**

Coldstore sandwich panel GS insPIRe® CH / GS insPIRe® CH MAX

Mounting the freezer door Horizontal cross-section





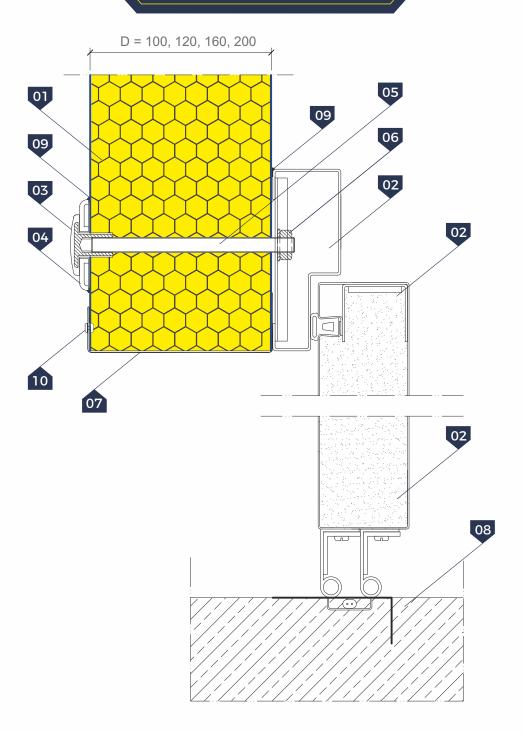
□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Freezer door
- 03. **PVC** insulation ring with steel insert
- 04. **PVC** mounting washer
- 05. Steel galvanized threaded bar Ø 10
- 06. Steel galvanized nut M10 with washer Ø 21 / Ø 10.5
- 07. Closing flashing 08. Permanently plastic sealing compound
- 09. Self-drilling connector for steel sheets or rivet 4.0×8.0

Coldstore sandwich panel GS insPIRe® CH / GS insPIRe® CH MAX

Mounting the freezer door Vertical cross-section





□ LEGEND:

- 01. Coldstore panel GS insPIRe® CH / GS insPIRe® CH MAX
- 02. Freezer door
- 03. PVC insulation ring with steel insert
- 04. **PVC** mounting washer 05. Steel galvanized threaded bar Ø **10**
- 06. Steel galvanized nut M10 with washer Ø 21 / Ø 10.5
- 07. Closing flashing 08. Floor acc. to architectural design
- 09. Permanently plastic sealing compound10. Self-drilling connector for steel sheets or rivet 4.0 x 8.0

SCALE 1:2.5 PAGE: 37

Damage free installation of sandwich panels with VIAVAC vacuum lifters



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

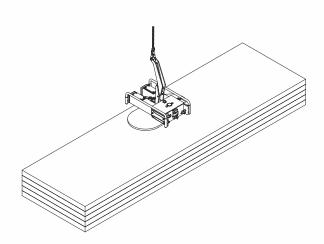
Use: for mounting roof and wall panels in vertical and horizontal layout.

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

Contact:

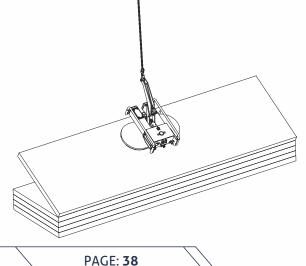
tel. **+48 68 384 39 08** http: www.viavac.pl

- Scheme No. 1. Horizontal installation of a wall panel using the GlassBoy machine
 - 1a. situating the machine and its attachment to the panel





1b. lifting the machine together with panel

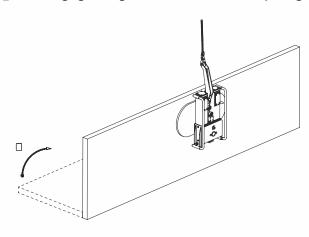




Damage free installation of sandwich panels with VIAVAC vacuum lifters

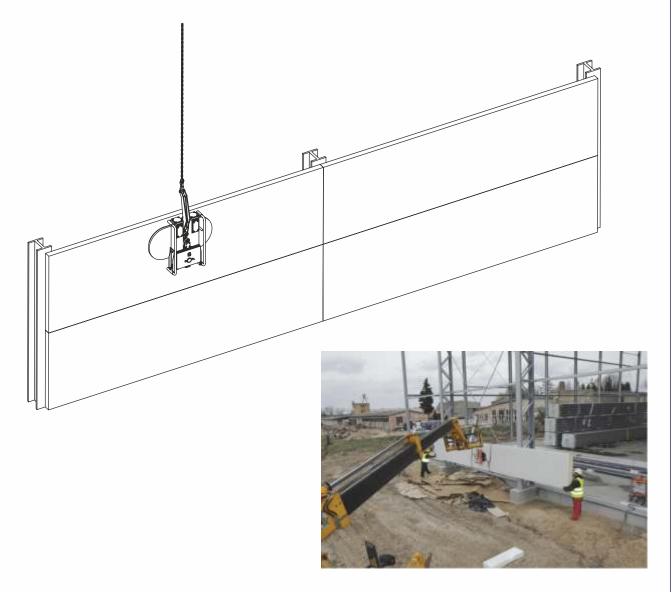


D 1c. changing the angle of the machine and transporting the plate to the place of installation





igcirc 1d. installation of panel on the wall and detachment of the machine

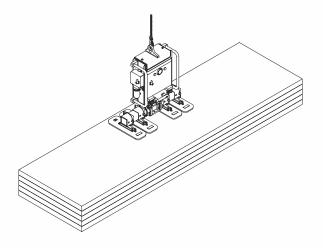


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Damage free installation of sandwich panels with VIAVAC vacuum lifters

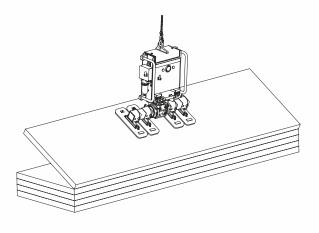


- Scheme No. 2. Horizontal installation of a wall panel using the CladBoy machine
 - igtriangleq 2a. situating the machine and its attachment to the panel





2b. lifting the machine together with panel

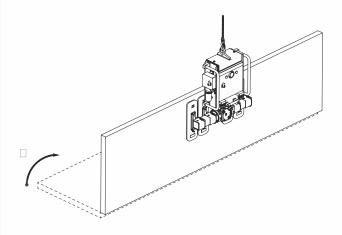




Damage free installation of sandwich panels with VIAVAC vacuum lifters

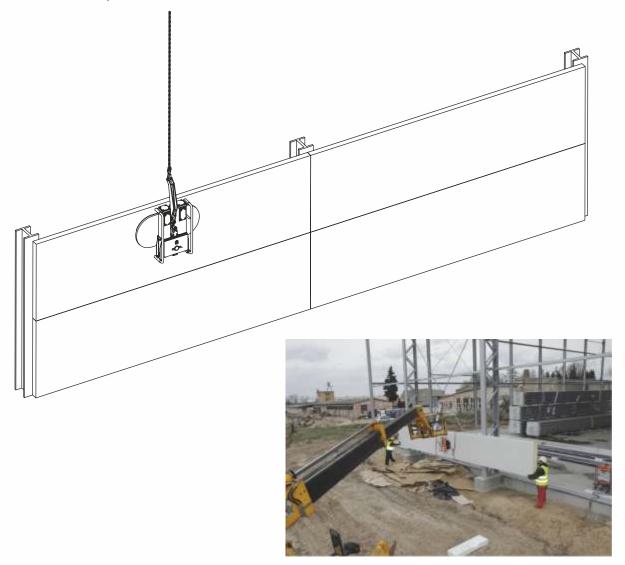


2c. change of the angle of the machine and transporting the panel to the place of installation





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

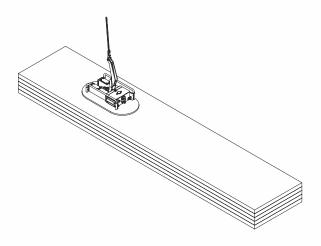


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Damage free installation of sandwich panels with VIAVAC vacuum lifters

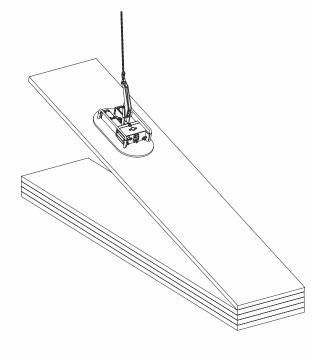


- Scheme No. 3. Vertical installation of a wall panel using the GlassBoy machine
 - D 3a. situating the machine and its attachment to the panel





3b. lifting the machine together with panel

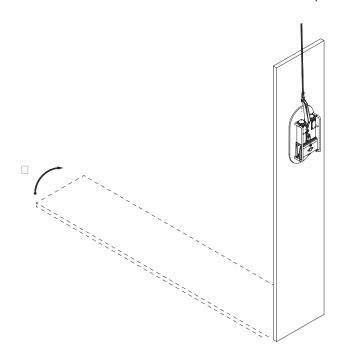




Damage free installation of sandwich panels with VIAVAC vacuum lifters

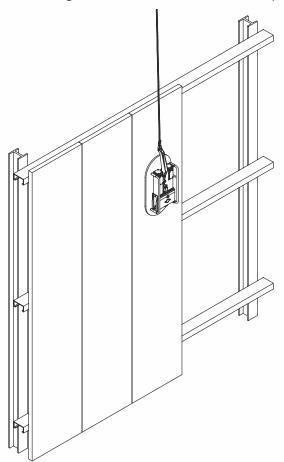


○ Scheme No. 3. Vertical installation of a wall panel using the GlassBoy machine





D 3a. situating the machine and its attachment to the panel



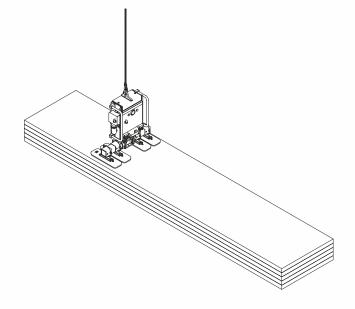


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Damage free installation of sandwich panels with VIAVAC vacuum lifters

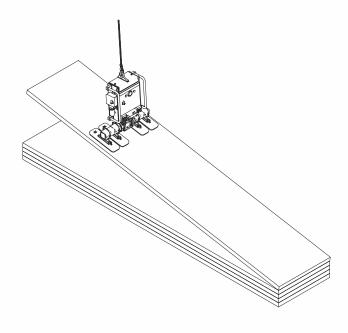


- Scheme No. 4. Vertical installation of a wall panel using the CladBoy machine
 - D 4a. situating the machine and its attachment to the panel





igcap 4b. lifting the machine together with panel

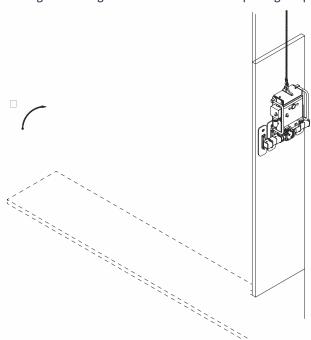




Damage free installation of sandwich panels with VIAVAC vacuum lifters

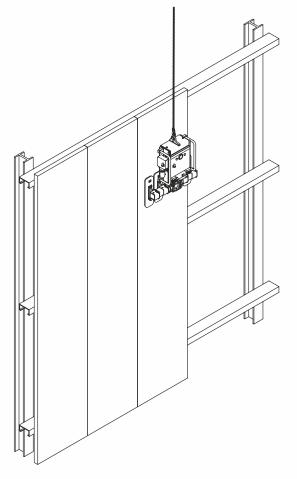


2 4c. change of the angle of the machine and transporting the panel to the place of installation





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



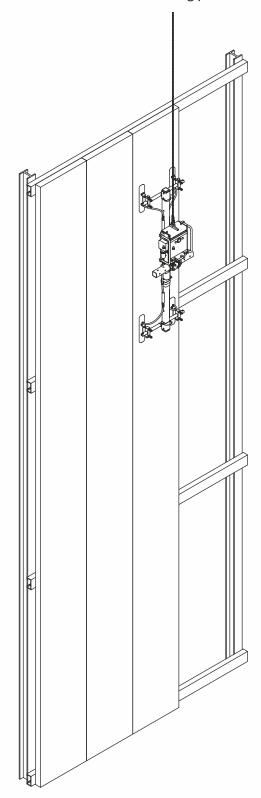


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Damage free installation of sandwich panels with VIAVAC vacuum lifters



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

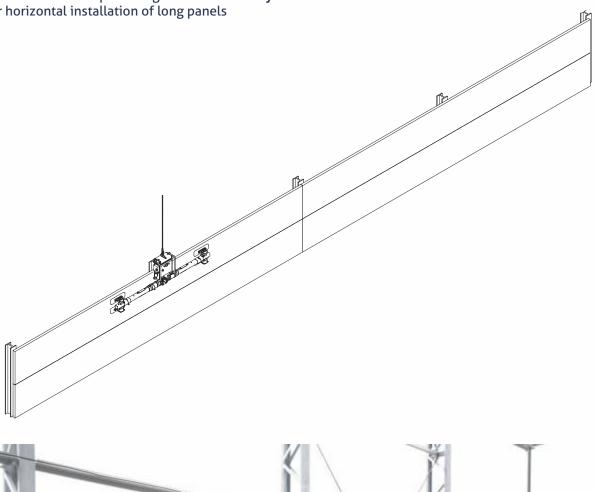




Damage free installation of sandwich panels with VIAVAC vacuum lifters



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



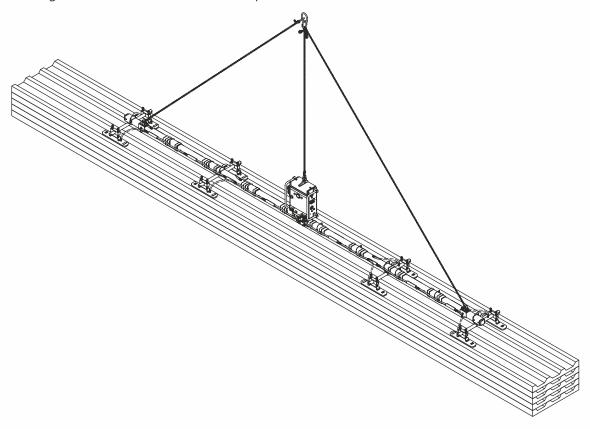


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Damage free installation of sandwich panels with VIAVAC vacuum lifters



- Scheme No. 7. Installation of a roof panel using CladBoy machine
 - 7a. situating the machine and its attachment to the panel

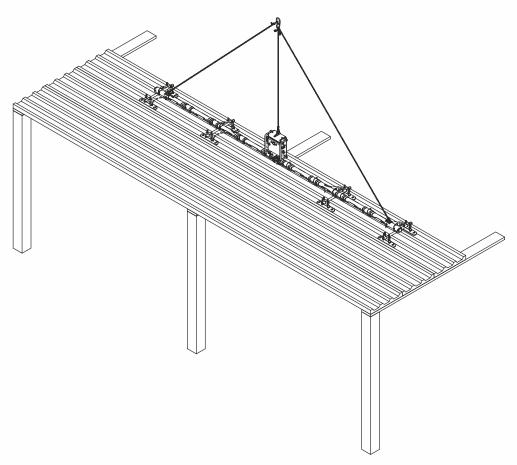




Damage free installation of sandwich panels with VIAVAC vacuum lifters



igtriangledown 7b. installation of panel on the roof and detachment of the machine





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□ ACCESSORIES

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

□ FLASHINGS

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

ATTENTION

- it is recommended that the flashing be fastened every 30 cm with self-drilling screws to steel sheets or rivets

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			3000, 5010, 6011, 7016, 7035, 8017, 9002, 9006,
0,70	6,00	3,0 and 6,0	2,0 - 6,0	9007, 9010
1,00	8,00			zinc coating

○ SEALS

We supply sealing tapes presented in technical solutions in this catalog and in other dimensions at the customer's special request: self-adhesive polyurethane (PUS, PURS), polyethylene (PES) and butyl. As the freezing chambers are made as sealed rooms, it is necessary to prevent negative pressure during freezing and defrosting by installing pressure equalizing valves.

D FASTENERS

GS insPIRe® CH / **GS** insPIRe® CH MAX sandwich panels can be attached to steel, reinforced concrete and wooden structures with the use of dedicated fasteners. In the case of cold rooms (t> 0 ° C), stainless steel self-drilling screws can be used. In freezing chambers, it is necessary to use connectors to prevent freezing and condensation. **PVC** nuts with steel bolts, polyamide bolts or screws and the plastic suspension system are suitable for this purpose.

System connectors are presented in the tables below.

Sandwich par	nel type and thickness [mm]	Fastener					
	stainless steel self-o	drilling screws					
	100	stainless screw 5,5/6,3x150					
Coldstore panel GS insPIRe CH	120	stainless screw 5,5/6,3x170- 175					
/ GS insPIRe CH MAX	160	stainless screw 5,5/6,3x 195-210					
	200	stainless screw 5,5/6,3x225-250					
	thermo-insulating mo	unting elements					
Coldstore panel	PVC mounting	nut with washer - M8, M10, M12					
GS insPIRe CH	PVC mounting nut with	PVC mounting nut with steel insert and washer - M8, M10, M12					
/ GS insPIRe CH MAX	polyamide	mounting screw - M10, M12					

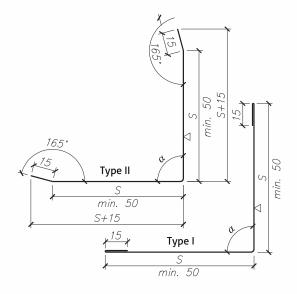
Additional elements

Catalogue of flashings



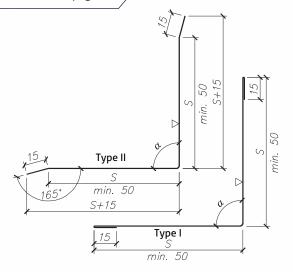
□ Flashing OB-01 outer corner

No.	Symbol	S [mm]	α [°]	L[mm]	Weight [kg]					
Standard – steel sheet 0,5 mm thick										
01	OB-01/50	50			3,12					
02	OB-01/75	75			4,32					
03	OB-01/100	100	00		5,52					
04	OB-01/150	150	90	6000	7,92					
05	OB-01/200	200			10,32					
06	OB-01/250	250			12,72					
	Unusual from s	heet meta	with a thi	ickness of 0.	5 or 0.7 mm					
07	7 OB-01/ S= / α= / L=									
08	OB-01/ S1= / S2= / α= / L=									



The use is described in detail on page -

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



The use is described in detail on page -

No.	Symbol	S [mm]	α [°]	L[mm]	Weight [kg]				
Standard – steel sheet 0,5 mm thick									
01	OB-18/90	90			2,88				
02	OB-18/100	100	-	6000	3,12				
03	OB-18/120	120			3,60				
	Unusual from sheet metal with a thickness of 0.5 or 0.7 mm								
04	4 OB-18/ S= / L=								

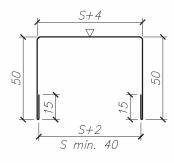


The use is described in detail on page -



Flashing OB-36 U channel section

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



NOTE:

Not described angles should be made as a right angle.

The use is described in detail on page -

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

^{*-} offered upon special order ** - to avoid the difference in colour, it is recommended to choose metal sheet width appropriate to the kind of panel used

Documentation

Order form of

SANDWICH PANELS



١	Order: No Agent:	of		Gór-Stal No. 11 Przer 38-300 Gorl Tel./Fax: + 4 Account No:	sp. z (nysłowa ice, Pola 8 18 353	D.O. st. nd 3 98 00					
Co	ommercial Terms	5:			Ordering pa	ary: (nan	ne, company	address	, phone/	fax, TIN)	
Pa	yment method:										
Ad	vance (%):	payable unt	il:								
Fu	ll payment:										
Cro	edit limit:										
Re	marks:										
Ag	gent:				Delivery pla	ace: (red	ipient, addre	ess, city,	post cod	de, phone	/fax)
Re	marks:										
No.	Plate type: GS insPIRe® S GS insPIRe® S MAX GS insPIRe® U GS insPIRe® U MAX GS PIR D GS PIR D MAX GS insPIRe® CH	Thickness [mm]: 440, 60, 80, 100, 120 60, 80, 100, 120, 140 40/80, 60/100, 80/120 120/160, 150/190, 160/200 100, 120, 160, 200	Plate produced L - Linear M - Micros F - Wavy R - Groove T - Trapez P - Flat	filtered	Plate width [mm]: 1000 1140 Colour RAL:		RAL:	Quantity: Net pri Unit/va		ice alue:	
	GS insPIRe® CH MAX		ext.	int.		ext.	int.	L. [m]	pcs.	EUR/m ²	EUR
01											
02											
03											
04											
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11											
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14											
14 15											

Documentation

Order form of

INDIVIDUAL FLASHING



○ Order: no of					panels o				
110	01	NO				. 01			
Supplier: (name, company	adduage whom (fact TIM)	Symbol	S [mm]	α [°]	Thickness [mm]	Longth [mm]	Quantity [crt]	Total weight	Colour RAL
Supplier. (name, company	address, phone/fax, TIN)		2 [mm]	αιι	Thickness [mm]	Length [mm]	Quantity [SZL.]	Total weight	Cotour RAL
Gór-Stal sp. z o.o.		OB-01 OB-02							
No. 11 Przemysłowa st.		OB-18		-					
38-300 Gorlice. Poland		OB-36		-					
Tel./Fax: + 48 18 353 98 0	0	L-01 L-02	+	-					
Account No: 79 1140 1081		L-03	-	-					
/(ccodile (10.7) 11 10 1001	2 0000 3037 3300 1001	L-04	-	-					
		P-01		-					
Commercial Terms:		P-02 W-01	+	-					
		N-01							
Payment method:	1								
Advance (%):	payable until:								
Full payment:									
Credit limit:									
Remarks:									
Ordering pary: (name, con	npany address, phone/fax, TIN)								
			+						
Delivery place: (recipient, phone/fax	, address, city, post code,								
phone/fax	к)		+						
			+						
			+						
			+						
Flashing length: 6 m. Defaultα = 90°									
Shape of flashing acc. to tech	nological catalogue								
Chape of hashing acc. to tech	nological catalogue								
Ordering Party's signature:						Total:			
						Net price:			
						Net value:			
		ACCESSORIES	5	Туре		Size [mm]	Quantity [pcs./l.m]	Colour RAL	
		Bolts fixing th	ne plate	Steel G1					
		to the structu			Concrete				
		Screws for fla	shings						
		Rivets							
		Gasket		PE PES					
		Gasket		PUS					
		Gasket							
		Saddle washe	er	35-35		-			
		Washer Covering can	c	Pm1		-			
		Covering cap	3	ALF					

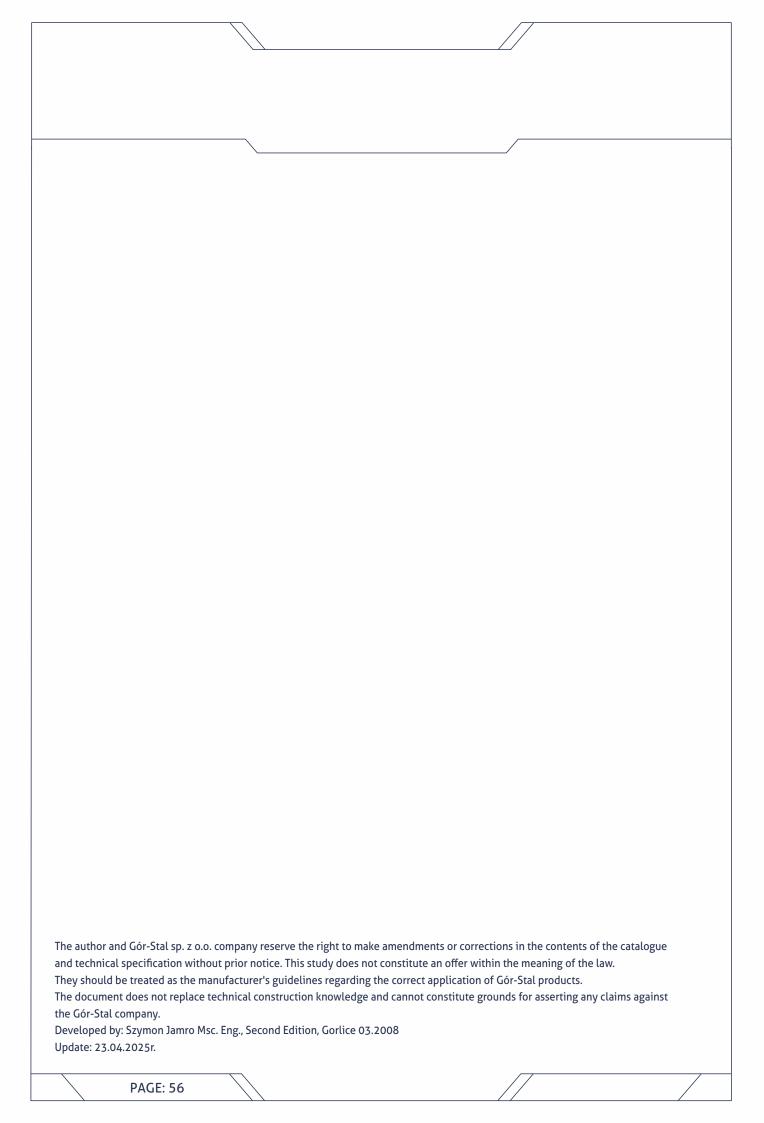
Documentation

Order form of

INDIVIDUAL FLASHING



> A	order: lo gent: dering pary: (n			/fax, TIN)	Gó No. 38- Tel. Acc	r-Stal sp. z o 11 Przemysłowa 300 Gorlice /Fax: + 48 18 353 ount No: 79 1140	98 00 1081 0000	5859 5500 10	01
No.	Sheet thickness [mm]:	Colour RAL:	Length [m]:	Quantity:	Nr.	Sheet thickness [mm]:	Colour RAL:	Length [m]:	Quantity:
01. F	Boundary condition unfolding -> min 1 shelf width -> min width of the notch bending angle -> n with an unfolding shorten the proces	14 mm 25 mm ing/bend -> m nin 45° of above 350 i sing to 3.0 mb	mm, it is recomm).		Ren	nark:			
					Ord	dering Party's sign	ature:		





GÓR-STAL sp. z o.o. No. 11 Przemysłowa st., 38-300 Gorlice, Poland

www.gor-stal.pl

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Insulation Boards Factory

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