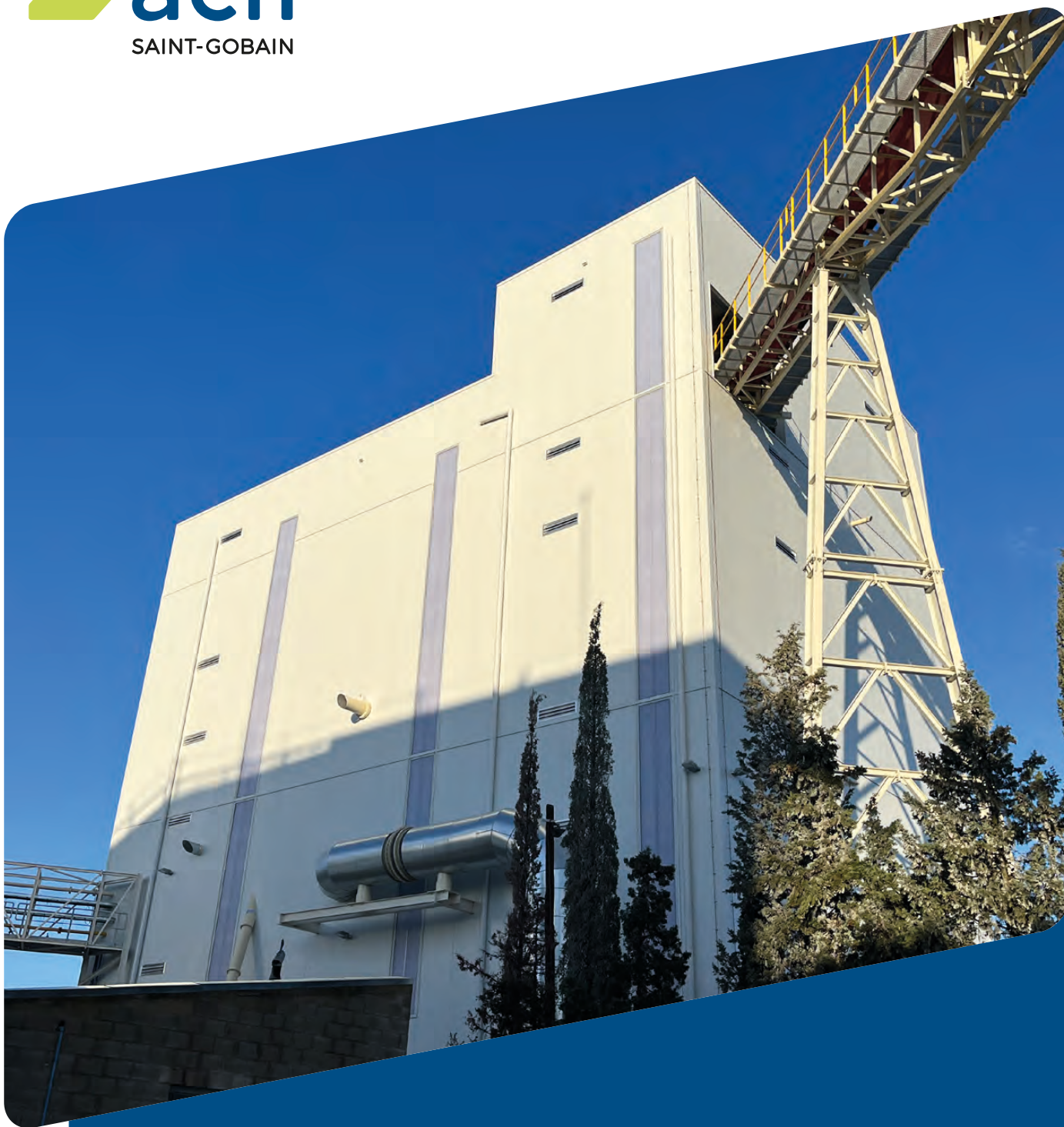




ACH PANELS

Leaders in the manufacture of rock wool metal panels, as well as the development of acoustic and fire-fighting solutions



Company	4
Sándwich Panels. ACH Mineral Wool.....	8
ACH roof panels	10
ACH Walls and Sectorization.....	14
ACH acoustic screens for roadways	22
ACH Profiled sheets	24
Natural Lighting.....	26
Trims.....	30
Vacuum lifting machines.....	33
Solar panel mounting systems.....	34
Handling and storage tips	36
ACH Terms of sale.....	38

Saint-Gobain Transformados S.A.U

At Paneles ACH, we have extensive experience in the construction industry. We manufacture top-quality, certified sandwich panels, featuring a 10-year warranty.

We are part of the Saint-Gobain Group, a world leader in Sustainable Habitats, developing, manufacturing and marketing innovative and energy efficient solutions and materials, promoting our well-being and environmental protection.

At Paneles ACH, we adapt our panels to the needs of each client. Personalization is our hallmark. The continuous manufacturing process ensures the uniformity of each and every piece and streamlines planning. This allows us to produce a wide range of panels, lengths, thicknesses and finishes. We have all the necessary accessories, which are tailored based on the climatic and environmental factors to which they will be exposed.

Our sandwich panels are adapted to the current needs of the construction sector and have multiple applications: from industrial enclosures, to dividing indoor spaces, wall and roof construction and interior partitions in a wide variety of buildings.

Our goal is to continue growing together with our customers by providing tailor-made wall and roofing solutions and quality service. All in keeping with the Saint-Gobain Group's Principles of Conduct and Operation.

Principles of conduct:

- Professional commitment
- Respect for people
- Integrity
- Loyalty
- Solidarity

Principles of operation:

- Respect for the law
- Respect for the environment
- Respect for workplace health and safety
- Respect for workers' rights

Health, Safety and the Environment

All our sandwich panels and products are manufactured according to current regulations in order to minimize their environmental impact. We are committed to quality, safety and environmental protection.

At Paneles ACH, we strive to prevent occupational safety risks for our employees, temporary workers, contractors, visitors and customers, as well as for the environment. We are committed to achieving the objectives of:

- ZERO workplace accidents.
- ZERO occupational diseases.
- ZERO environmental accidents and minimal impact of our activities.

We are also working to improve the environmental quality in the various sectors for which we build our extensive variety of sandwich panels.

Our sandwich panels are ecological, with each unit of energy used in its manufacture resulting in 25 units saved when in use.

Saint-Gobain Transformados S.A.U

Headquarters

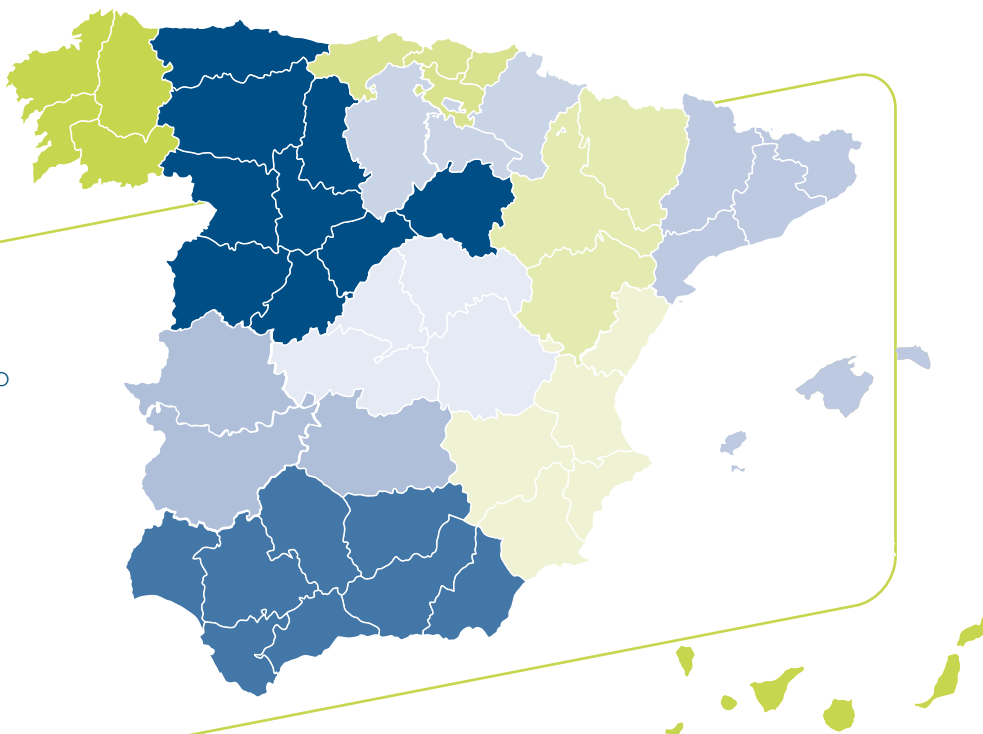
C/ Los Corrales

Plots C5 y C6

Polígono Industrial “La Ballestera”

Email: panelesach@saint-gobain.com

- Madrid, Guadalajara, Cuenca, Toledo
- Castilla y León, Asturias
- País Vasco, Cantabria
- Navarra, Burgos , La Rioja
- Galicia
- C. Valenciana, Murcia, Albacete
- Aragón, La Rioja
- Cataluña, Baleares
- Andalucía
- Extremadura, Ciudad Real
- Canarias



International presence

Our products are used in walls, enclosures, roofs, buildings and roads on every continent. We are committed to opening new markets in order to continue growing and improving every day. We ship materials anywhere in the world.



Legend



High mechanical strength



Rapid installation



High level of thermal insulation



Excellent reaction to fire (A2-s1, d0)



High level of acoustic insulation



Fire resistance



Lightweight and easy to transport



Various finishes: standard, smooth, semi-smooth, or micro-profiled



High sound absorption



CE-certified product



Wide range of colors available

General Information

ACH Panel Structure:

Steel sheets.

S220GD galvanized steel (per EN10346 standard) with a thickness between 0.5 and 1.0 mm. Organic coating

per EN10169 standard. Can be manufactured using other materials such as stainless steel, aluminum, etc.

Internal insulating core

- Made of rock wool with densities ranging from 85 to 145 kg/m².

Reaction-to-fire classification based on the panel core:

- The reaction-to-fire classification for mineral wool sandwich panels is A2-s1, d0.

*The information contained in this catalog is not exhaustive and is intended for guidance purposes only. All descriptions, illustrations, and dimensions in this brochure represent general information and do not constitute a contract. SAINT-GOBAIN TRANSFORMADOS, S.A. reserves the right to modify the content without prior notice. SAINT-GOBAIN TRANSFORMADOS, S.A. accepts no liability for errors in printing, digitization, etc. For the most up-to-date information, please visit: <https://www.panelesach.com/>

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Certificates



ER-0589/2003



GA-2013/0292

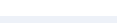


Organic coating of steel

Designation	Thickness (μm)	Corrosion resistance category*	UV radiation resistance	Salt spray test
SP25	25	RC3*	RUV2*	-
HDP-PA35	35	RC4	RUV4	500h
PU/PA	55	RC5	RUV4	700h
PUR-PA50 + 20	50+20	RC5 PLUS	RUV5	1000h
HPS	200	RC5	RUV4	1000h

With SP25 finish, to achieve RC3 and RUV2 ratings upon express customer request; always consult the manufacturer.

Finishings

Finish	Profile	Image	Inner face	Outer face
Smooth	P5G*-PF-PM		YES*	YES
Semi-smooth	P5G-PF-PM		YES*	NO
Micro-ribbed	P5G-PF-PM		YES	YES*
Micro-profiled	PF-PM		NO	YES

*For P5G, only the inner face is smooth or semi-smooth; the outer face is always micro-ribbed.

Range of colors

Standard Coating ACH Panels

**Pearl Gray
5001**



**Silver Metallic
9006**



**Pyrenees
White 1006**



**Bidasoa
Cream 2002**



**Navarre
Green 3000**



**Brick Red
7001**



Other usual colors (on request)

**RAL
9005**



**RAL
6009**



**RAL
7012**



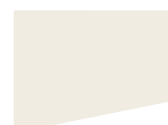
**RAL
9007**



**RAL
9002**



**RAL
9010**



**RAL
7022**



**RAL
7016**



**Lake Blue
4000**



**Coral Red
7004**



**Light Green
3001**



**RAL
1015**



Sándwich Panels

ACH Mineral Wool

ACH mineral wool sandwich panels are cold formed. Its two outer sheets are joined by a central insulating core made of mineral wool. This makes our Mineral Wool sandwich panels strong and fire resistant, which is why they are an ideal product for any sector in which this problem is a priority: industrial construction, public facilities, residential construction, naval construction, etc.

Mineral wools are inert elements that do not allow microorganisms or insects to grow. They do not serve as rodent-proof insulation and they are rot resistant. The high noise insulation properties of our sandwich mineral wool panels significantly improve environmental conditions in the industrial sector, providing truly innovative solutions.



ACH Panels are designed for building enclosures in large industrial areas or civil construction projects. They can be used interchangeably to build roofs for the following types of buildings:

- Heated premises.
- Interior noise shielding in industrial installations.
- Manufacturing premises.
- Premises where fire protection is an important requirement.
- Non-combustible enclosures: data centers, garages, hazardous material storage areas, etc.
- Buildings with variable activities, or intended for rent.

There are two types of mineral wool densities, depending on the use and application of the sandwich panels:

- L density: the panels are lighter and absorb noise very well.
- M density: the panels feature higher fire resistance, high mechanical strength and greater noise insulation.

The reaction to fire rating of the mineral wool in the core is A1.



Because the panel is prefabricated, it is easy and fast to install, and it offers a uniform, quality finish. The panels are also certified.

- **EASY TO INSTALL:** the simplicity of the sandwich panels makes the installation faster than with any other enclosure product.
- **COLOGICAL:** each unit of energy consumed in its manufacture is equivalent to 25 units saved when in use.
- **SEALING:** The surfaces of the sandwich panels are watertight and air tight. The mineral wool is waterproof thanks to its water-repellent properties.
- **ACOUSTICS:** The elasticity of the open structure gives the panels a high capacity to absorb the acoustic energy produced by noise, and avoid the coupling effect of standing waves.
- **FIRE RESISTANT AND IMPERMEABLE TO FLAMES:** Due to their inorganic nature, they do not burn or produce fumes, even at high temperatures.
- **HYGIENIC:** Mineral wools are inert elements. They do not allow microorganisms (food source for rodents) to grow and they do not rot.

ACH roof panels

ACH roof panels are formed by two sheets of steel joined to the mineral wool core by an organic adhesive. They are designed for building enclosures in large industrial or civil construction areas.

The difference between standard panels and perforated acoustic panels is that in the latter, there are micro-perforations on the inner side, and between the perforated face and the mineral wool core.

The perforated side has a glass fiber veil that helps the metal sheet adhere, and absorbs noise..

Installation recommendations:

- 7% min. slope with intermediate overlap.
- 5% min. slope with no overlap.

Fire reaction

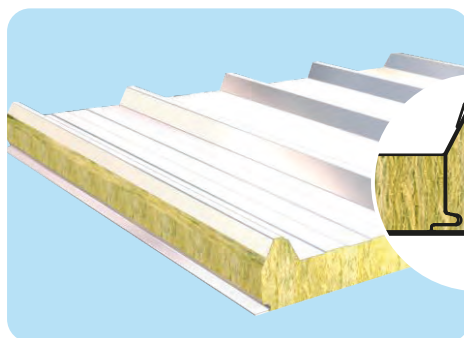
A2-s1, d0 rating as per the EN-13501-1 Standard.



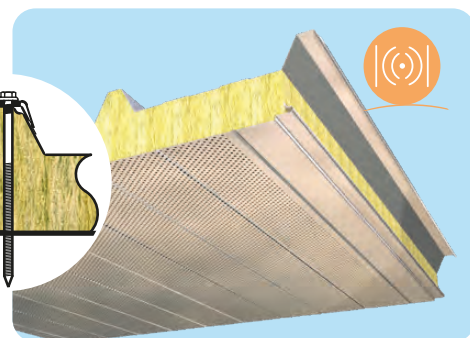
Roof panels with 5 ribs

Thanks to their multi-ribbed design, the 5-rib panels offer high mechanical strength, allowing for longer spans for the same load. They are durable, high-quality panels, guaranteeing total waterproofing, offering high fireproofing performance (up to 120 min, EI120) and a high level of thermal insulation.

Standard (not perforated)

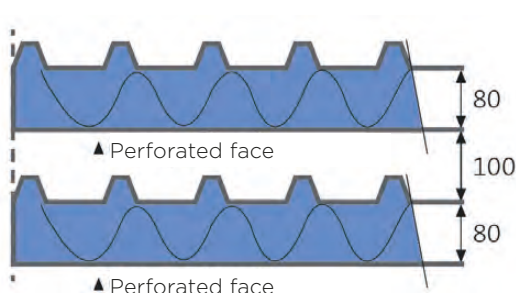


Acoustic (perforated)



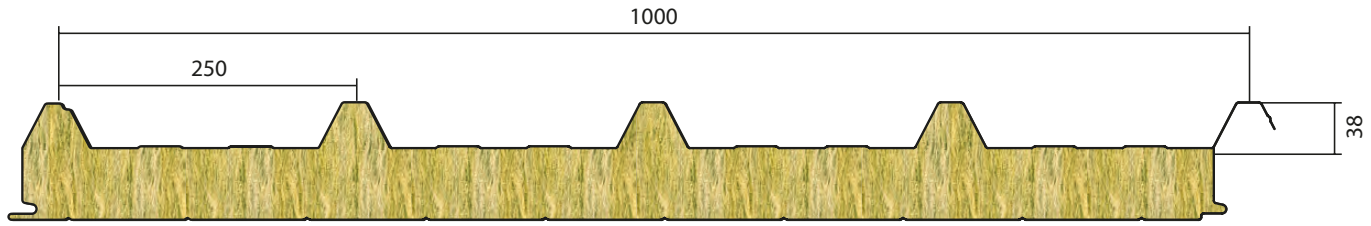
ACH 5-rib dual roof panel 80 +100 +80 mm

Acoustic solution consisting of two, 5-rib, 80-mm thick sandwich roof panels with a 100-mm thick air chamber between them. The perforated sides on the panels face towards the interior of the building or room.



**Up to
49 dB**

Roof Sandwich Panels 5 ribs



<https://www.panelesach.com/wp-content/uploads/2025/01/Comunicado-tablas-cargas-paneles-ACH-ago-21.pdf>



STANDARD										
Vain (m)	Surcharge on a simply supported panel (kg/m²)									
	80		100		120		150		200	
	L	M	L	M	L	M	L	M	L	M
30	-	3,40	-	2,90	-	2,60	-	2,21	-	1,80
40	-	3,60	-	3,10	-	2,85	-	2,35	-	1,80
50	3,25	3,96	2,90	3,42	2,65	2,98	2,20	2,50	1,40	1,92
60	3,40	4,40	3,00	3,75	2,75	3,10	2,35	2,80	1,50	2,25
80	4,10	5,76	3,80	5,16	3,50	4,48	3,11	3,66	2,35	2,77
100	5,60	6,60	5,05	5,68	3,80	4,76	3,30	3,88	2,50	2,94
120	6,00	7,50	5,30	6,10	4,00	5,15	3,50	4,41	2,70	3,12
150	*Subject to consultation with the Technical Department									
200										

- Deflection L/200. Safety coefficient: 1.80.

ACOUSTIC (PERFORATED)										
Vain (m)	Surcharge on a simply supported panel (kg/m²)									
	80		100		120		150		200	
	L	M	L	M	L	M	L	M	L	M
30	-	2,13	-	1,66	-	1,53	-	1,49	-	1,00
40	-	2,80	-	2,20	-	2,00	-	1,9	-	1,65
50	2,93	3,20	2,60	2,80	2,41	2,55	2,00	2,25	1,60	2,00
60	3,15	3,30	2,75	2,95	2,45	2,70	2,20	2,40	1,82	2,15
80	3,92	4,6	3,51	4,05	3,04	3,50	2,49	3,02	1,94	2,25
100	4,58	5,61	3,93	4,83	3,31	4,06	2,68	3,15	2,04	2,50
120	5,28	5,80	4,35	5,00	3,62	4,2	2,90	3,9	2,18	3,50
150	*Subject to consultation with the Technical Department									
200										

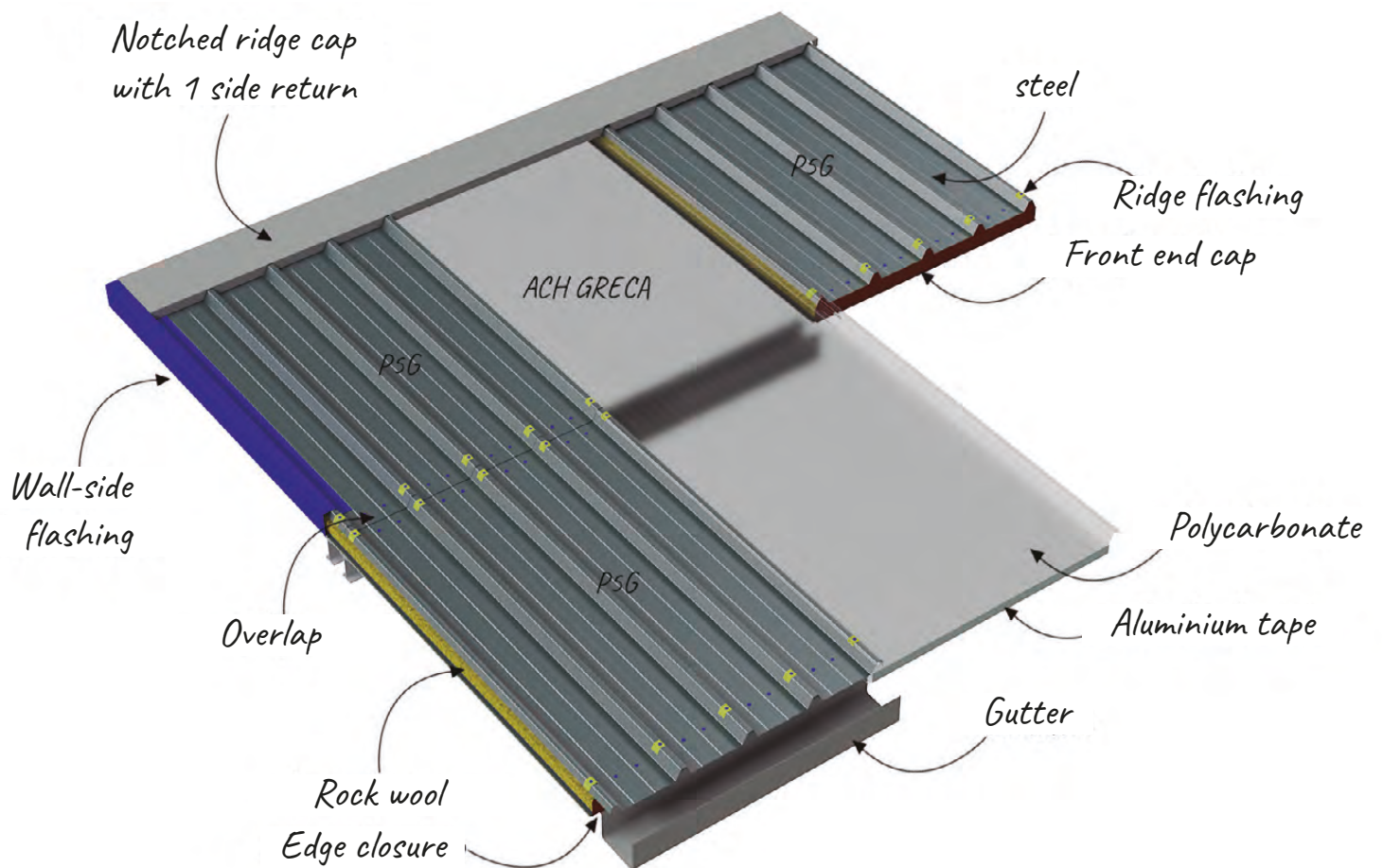
- Deflection L/200. Safety coefficient: 1.80.

Core thickness mm	Width mm	Máx. rec. Compr.				Weight Kg/m²				Therm Trans. Coeff. W/m²K	Res. to Fire EI (min)				Acoustic insulation								Absorption αw	
															Rw (dB)				Ra (dB A)					
		Standard		Acoustic		Standard		Acoustic			Standard		Acoustic		Standard		Acoustic		Acoustic					
		L	M	L	M	L	M	L	M		L	M	L	M	L	M	L	M	L	M	L	M		
30	1.000	-	8,00	-	7,00	-	13,1	-	10,9	0,990	-	PNR	-	PNR	-	≥28,0	-	≥28,0	-	≥28,0	-	≥28,0	-	0,80
40	1.000	-	8,00	-	8,00	-	14,3	-	13,2	0,789	-	PNR	-	PNR	-	≥28,0	-	≥28,0	-	≥28,0	-	≥28,0	-	0,80
50	1.000	8,00	8,00	8,00	8,00	14,4	15,5	12,9	14,4	0,661	REI30	REI45	PNR	PNR	≥31,0	≥33,0	≥31,0	≥32,0	≥30,5	≥32,5	≥30,6	≥31,6	0,90	0,80
60	1.000	9,00	9,00	8,00	8,00	14,9	16,7	13,8	15,6	0,561	PNR	REI60	PNR	PNR	≥31,0	≥33,0	≥31,0	≥32,0	≥30,5	≥32,5	≥30,6	≥31,6	0,90	0,80
80	1.000	9,00	9,00	9,00	9,00	17,3	18,3	15,6	18,0	0,436	PNR	REI60	PNR	REI120	≥31,0	≥33,0	≥33,0	≥32,0	≥30,5	≥32,5	≥32,3	≥31,6	0,85	0,80
100	1.000	9,00	9,00	9,00	9,00	19,2	21,5	17,4	20,4	0,357	PNR	REI180	PNR	REI180	≥31,0	≥33,0	≥35,0	≥35,0	≥30,5	≥32,5	≥34,7	≥34,7	0,85	0,80
120	1.000	10,00	10,00	10,00	10,00	20,3	23,9	19,2	22,8	0,302	PNR	REI240	PNR	PNR	≥31,0	≥33,0	≥35,0	≥35,0	≥30,5	≥32,5	≥34,7	≥34,7	0,85	0,80
150	1.000	10,00	10,00	10,00	10,00	23,0	27,5	21,9	26,4	0,246	PNR	REI180	PNR	PNR	≥31,0	≥33,0	≥35,0	≥35,0	≥30,5	≥32,5	≥34,7	≥34,7	0,85	0,80
200	1.000	10,00	10,00	10,00	10,00	27,5	33,5	26,4	32,4	0,187	PNR	REI240	PNR	PNR	≥31,0	≥33,0	≥35,0	≥35,0	≥30,5	≥32,5	≥34,7	≥34,7	0,85	0,80

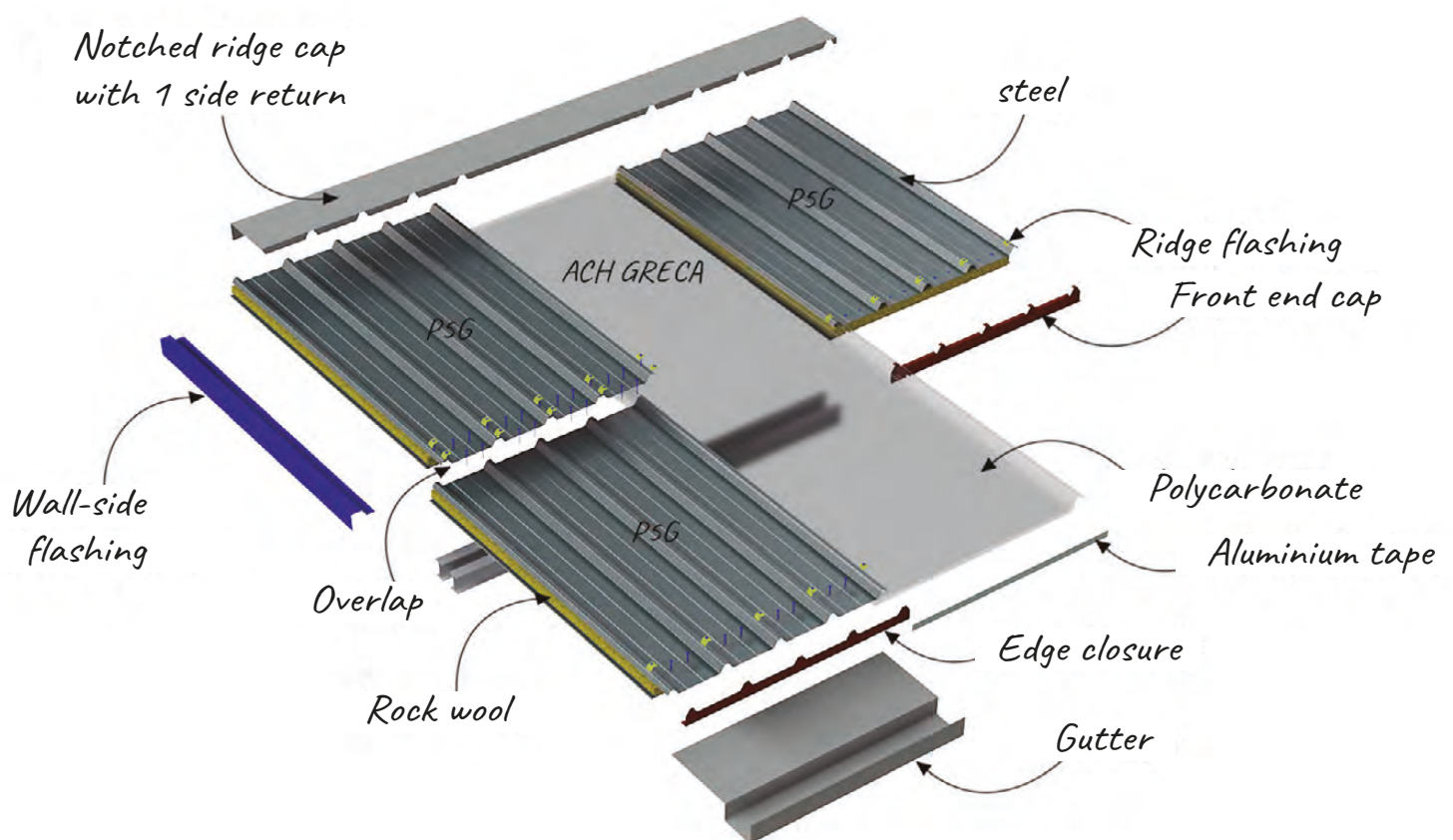
*PNR: Property not reported

• Acoustic performance: ask manufacturer about certifications

P5G Roofing Solution



P5G Roofing Solution



ACH Walls and Sectorization

ACH wall panels provide a highly cosmetic solution for vertical wall enclosures that offers excellent mechanical, thermal, acoustic, and, especially, fire resistance characteristics.

They consist of two sheets of steel joined to the mineral wool core by an organic adhesive.

They are designed for building enclosures or interior partitions in large industrial or civil construction areas.

The difference between standard panels and perforated acoustic panels is that in the latter, there are micro-perforations on the inner side.

The perforated side has a glass fiber veil that helps the metal sheet adhere, and absorbs noise.

Fire reaction

A2-s1, d0 rating as per the EN-13501-1 Standard.

Permeability under pressure as per EN 12114•

+600PA: 0.66 m•/h•m•

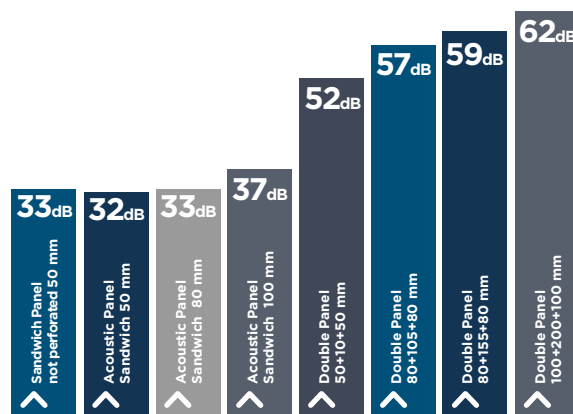
-600PA: 0.96 m•/h•m•

Resistance to driving rain under pulsating air pressure EN 12865 •.

600A rating

*Wall with invisible fastener 80mm.

Up to
62 dB

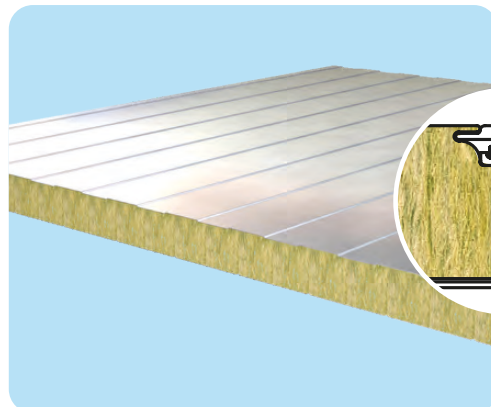




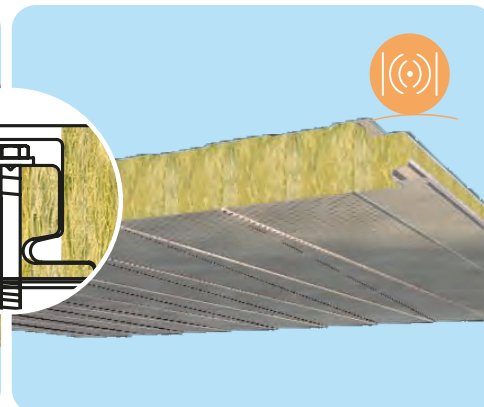
Wall with invisible fastener

Thanks to the design of their joints, the wall panels with invisible fasteners guarantee a union that is fully sealed, whether installed vertically or horizontally.

Standard (not perforated)



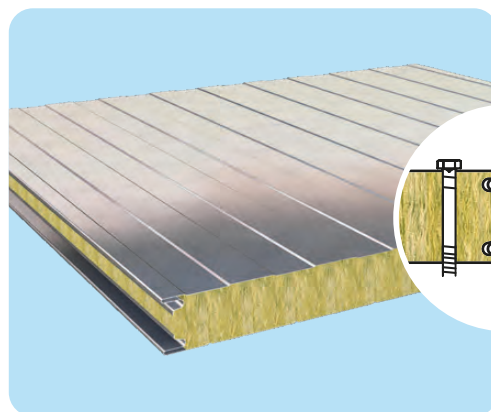
Acoustic (perforated)



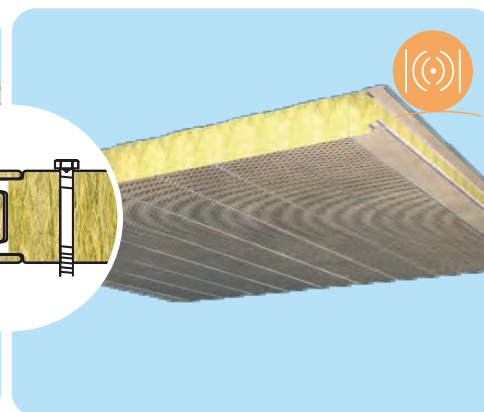
Wall with exposed fastener

ACH Sectorization panels are the ideal solution for partitioning enclosed spaces where there is a risk of fire. We offer panels with fire resistance of up to 240 minutes (EI 240).

Standard (not perforated)



Acoustic (perforated)

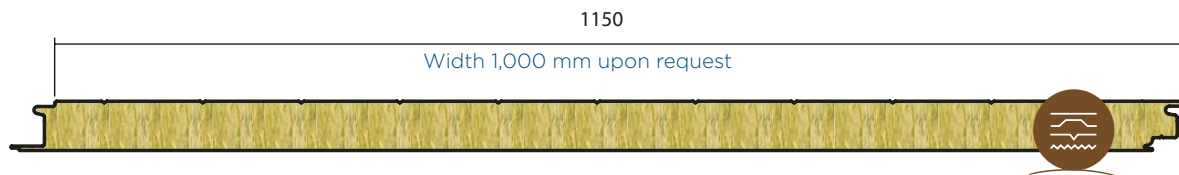


Acoustic solutions

At ACH we have numerous acoustic solutions that offer great acoustic comfort in rooms that, in addition to high levels of thermal insulation, require excellent levels of sound absorption. These solutions are tailored depending on the requirements to address different noise situations.



Wall sandwich panels with invisible fastener



<https://www.panelesach.com/wp-content/uploads/2025/01/Comunicado-tablas-cargas-paneles-ACH-ago-21.pdf>

Standard															
Span (m)		Dual-support panel overload (kg/m²)													
		30		60		80		100		120		150		200	
		L	M	L	M	L	M	L	M	L	M	L	M	L	M
Thickness (mm)	50	5,50	7,70	4,00	5,30	3,00	3,90	2,40	3,01	2,00	2,52	1,60	2,00	1,30	1,50
	60	5,50	8,15	4,00	6,10	3,00	4,20	2,40	3,50	2,00	3,02	1,60	2,40	1,30	1,90
	80	8,60	9,22	5,32	6,26	4,35	5,15	3,80	4,47	3,45	4,07	2,75	3,24	2,25	2,50
	100	10,00	11,00	6,35	7,50	5,16	6,10	4,60	5,45	4,20	5,00	3,45	4,12	2,75	3,25
	120	10,00	12,00	6,35	8,30	5,16	7,05	4,60	6,35	4,20	5,89	3,45	4,80	2,75	3,75
	150	*Subject to consultation with the Technical Department													
200															

- Deflection L/200. Safety coefficient: 1.80.

ACOUSTIC (PERFORATED)															
Span (m)		Dual-support panel overload (kg/m²)													
		30		60		80		100		120		150		200	
		L	M	L	M	L	M	L	M	L	M	L	M	L	M
Thickness (mm)	50	5,07	5,73	3,22	3,64	2,45	2,77	1,96	2,21	1,64	1,85	1,30	1,47	1,05	1,19
	60	5,25	5,93	3,40	3,84	2,75	3,11	2,50	2,83	2,06	2,33	1,60	1,81	1,20	1,36
	80	5,99	6,77	4,07	4,60	3,35	3,79	2,91	3,29	2,64	2,98	2,11	2,38	1,35	1,53
	100	7,14	8,07	4,85	5,48	3,95	4,46	3,53	3,99	3,22	3,64	2,64	2,98	1,55	1,75
	120	8,20	9,27	5,70	6,44	4,50	5,09	4,12	4,66	3,85	4,35	3,03	3,42	1,90	2,15
	150	*Subject to consultation with the Technical Department													
200															

- Deflection L/200. Safety coefficient: 1.80.

Core thickness mm	Width mm	Máx. rec. Compr.		Weight Kg/m²				Therm Trans. Coeff. W/m²K	Res. to Fire EI (min)				Acoustic insulation								Absorption αw	
													Rw (dB)				Ra (dbA)					
				Standard		Acoustic			Standard		Acoustic		Standard		Acoustic		Standard		Acoustic			
		L	M	L	M	L	M		L	M	L	M	L	M	L	M	L	M	L	M		
50	1.150	7,00	8,50	12,7	14,2	11,9	13,9	0,835	PNR	EI30	PNR	PNR	≥31,0	≥33	≥31,0	≥32,0	≥30,5	≥32,5	≥30,6	≥31,8	0,90	0,80
60	1.150	7,00	8,50	13,6	15,4	12,8	14,6	0,710	PNR	EI30	PNR	PNR	≥31,0	≥33	≥31,0	≥32,0	≥30,5	≥32,5	≥30,6	≥31,8	0,90	0,80
80	1.150	9,00	10,00	15,4	17,8	14,6	17,0	0,491	PNR	EI60	PNR	PNR	≥31,0	≥33	≥34,0	≥33,0	≥30,5	≥32,5	≥34,2	≥32,8	0,85	0,85
100	1.150	10,00	11,00	17,2	20,2	16,4	19,4	0,389	PNR	EI120	PNR	EI90*	≥31,0	≥33	≥34,0	≥37,0	≥30,5	≥32,5	≥34,2	≥36,2	0,85	0,80
120	1.150	11,00	12,00	19,0	22,6	18,2	21,8	0,323	PNR	EI120	PNR	PNR	≥31,0	≥33	≥34,0	≥37,0	≥30,5	≥32,5	≥34,2	≥36,2	0,85	0,80
150	1.150	12,00	12,00	21,7	26,2	20,9	25,4	0,261	PNR	EI120	PNR	PNR	≥31,0	≥33	≥34,0	≥37,0	≥30,5	≥32,5	≥34,2	≥36,2	0,85	0,80
200	1.150	12,00	12,00	26,2	32,2	25,4	31,4	0,194	PNR	EI120	PNR	PNR	≥31,0	≥33	≥34,0	≥37,0	≥30,5	≥32,5	≥34,2	≥36,2	0,85	0,80

*Acoustic performance: consult manufacturer certifications

*Width 1,000 mm: available upon request

*PNR: Property not reported

*Horizontal installation: consult installation instructions

Wall sandwich panels with exposed fastener



<https://www.panelesach.com/wp-content/uploads/2025/01/Comunicado-tablas-cargas-paneles-ACH-ago-21.pdf>

Standard															
Span (m)		Dual-support panel overload (kg/m²)													
		30		60		80		100		120		150		200	
		L	M	L	M	L	M	L	M	L	M	L	M	L	M
Thickness (mm)	50	4,90	7,00	2,96	4,80	2,50	3,30	2,38	2,80	2,19	2,40	2,05	2,00	1,45	1,50
	60	5,50	7,50	4,50	5,00	4,05	4,50	3,50	3,80	2,70	3,00	2,20	2,50	1,65	1,90
	80	6,30	8,00	4,70	5,50	4,10	4,80	3,65	4,30	3,10	3,40	2,45	2,90	1,90	2,30
	100	7,10	10,00	5,00	5,70	4,20	5,00	3,40	4,50	2,80	3,90	2,30	3,50	2,10	2,80
	120	9,00	12,00	5,50	6,30	4,50	5,50	3,60	4,70	4,00	4,30	2,90	3,90	2,30	3,20
	150	*Subject to consultation with the Technical Department													
	200														

- Deflection L/200. Safety coefficient: 1.80.

ACOUSTIC (PERFORATED)															
Span (m)		Dual-support panel overload (kg/m²)													
		30		60		80		100		120		150		200	
		L	M	L	M	L	M	L	M	L	M	L	M	L	M
Thickness (mm)	50	3,73	4,21	2,34	2,64	2,00	2,26	1,90	2,15	1,75	1,98	1,65	1,86	1,15	1,30
	60	3,95	4,46	2,60	2,94	2,40	2,71	2,25	2,54	2,15	2,43	1,78	2,01	1,25	1,41
	80	4,85	5,48	3,09	3,49	2,70	3,05	2,52	2,85	2,32	2,62	1,99	2,25	1,35	1,53
	100	5,87	6,63	3,60	4,07	3,03	3,42	2,79	3,15	2,53	2,86	2,17	2,45	1,50	1,70
	120	6,90	7,80	4,10	4,63	3,40	3,84	3,05	3,45	2,75	3,11	2,40	2,71	1,70	1,92
	150	*Subject to consultation with the Technical Department													
	200														

- Deflection L/200. Safety coefficient: 1.80.

Core thickness mm	Width mm	Máx. rec. Compr.		Weight Kg/m²				Therm Trans. Coeff. W/m²K	Res. to Fire EI (min)				Acoustic insulation								Absorption αw	
													Rw (dB)				Ra (dbA)					
				Standard		Acoustic			Standard		Acoustic		Standard		Acoustic		Standard		Acoustic		Acoustic	
		L	M	L	M	L	M		L	M	L	M	L	M	L	M	L	M	L	M		
50	1150	7,00	8,50	12,7	14,2	11,9	13,9	0,775	PNR	EI30	PNR	EI30	≥31,0	≥33	≥31,0	≥32,0	≥30,5	≥32,5	≥30,6	≥31,8	0,90	0,80
60	1150	7,00	8,50	13,6	15,4	12,8	14,6	0,622	PNR	EI60	PNR	EI30	≥31,0	≥33	≥31,0	≥32,0	≥30,5	≥32,5	≥30,6	≥31,8	0,90	0,80
80	1150	9,00	10,00	15,4	17,8	14,6	17,0	0,467	PNR	EI90	PNR	EI60	≥31,0	≥33	≥34,0	≥33,0	≥30,5	≥32,5	≥34,2	≥32,8	0,85	0,85
100	1150	10,00	11,00	17,2	20,2	16,4	19,4	0,376	PNR	EI120*	PNR	EI120	≥31,0	≥33	≥34,0	≥37,0	≥30,5	≥32,5	≥34,2	≥36,1	0,85	0,85
120	1150	11,00	12,00	19,0	22,6	18,2	21,8	0,315	PNR	EI240	PNR	EI120	≥31,0	≥33	≥34,0	≥37,0	≥30,5	≥32,5	≥34,2	≥36,2	0,85	0,80
150	1150	12,00	12,00	21,7	26,2	20,9	25,4	0,255	PNR	EI240	PNR	EI120	≥31,0	≥33	≥34,0	≥37,0	≥30,5	≥32,5	≥34,2	≥36,2	0,85	0,80
200	1150	12,00	12,00	26,2	32,2	25,4	31,4	0,191	PNR	EI240	PNR	EI120	≥31,0	≥33	≥34,0	≥37,0	≥30,5	≥32,5	≥34,2	≥36,2	0,85	0,80

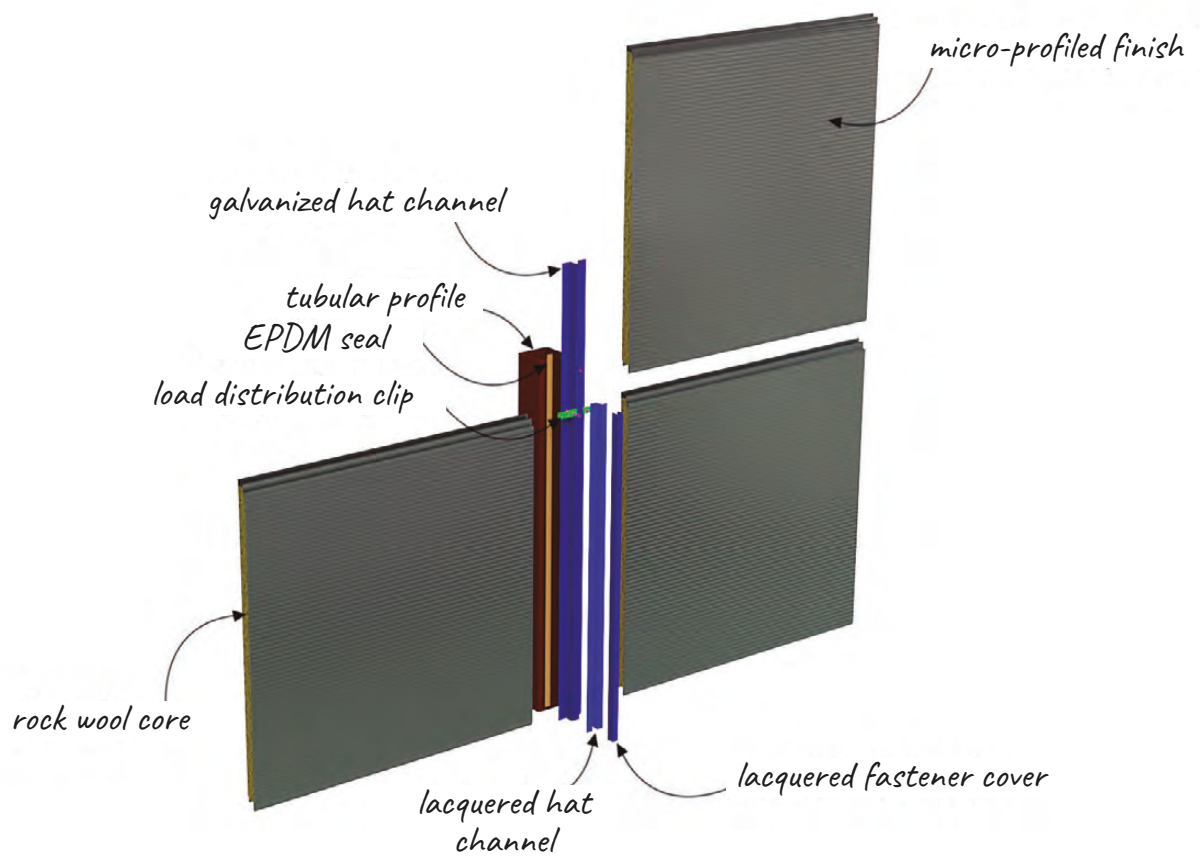
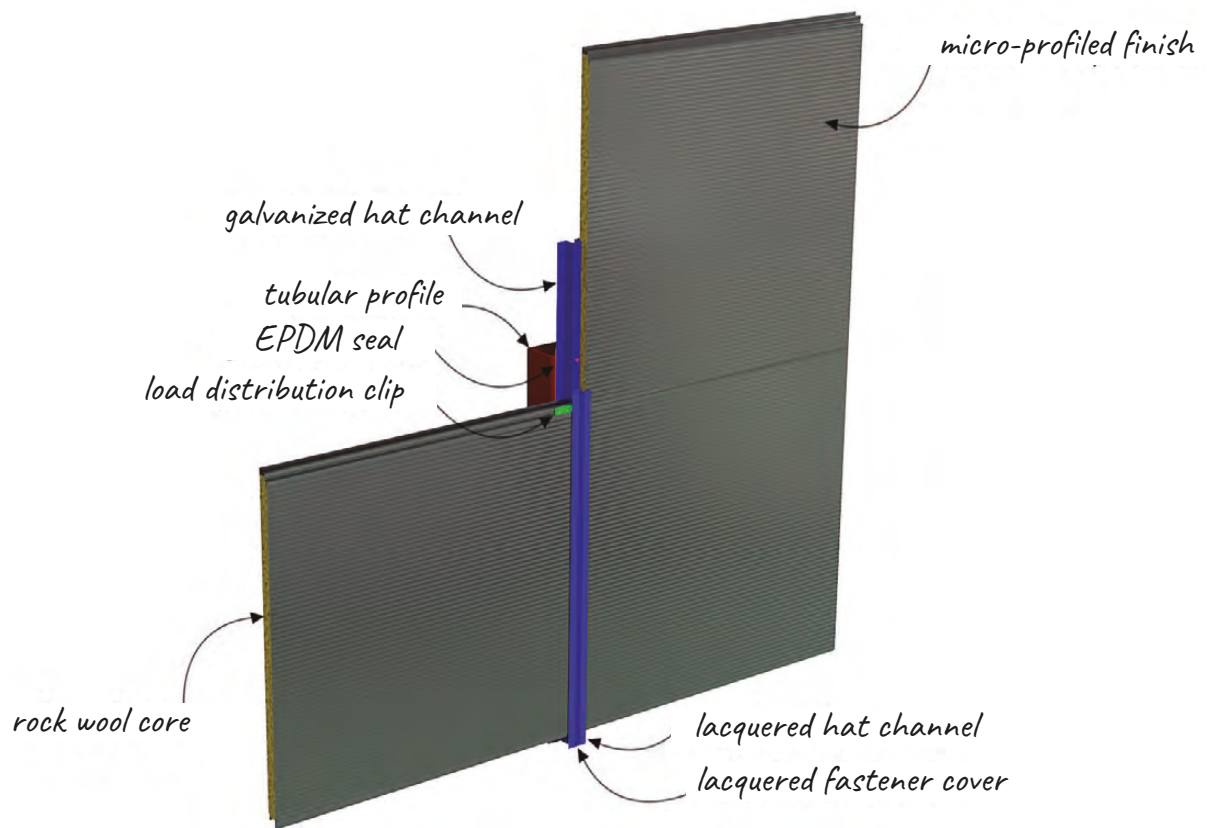
*Acoustic performance: consult manufacturer certifications

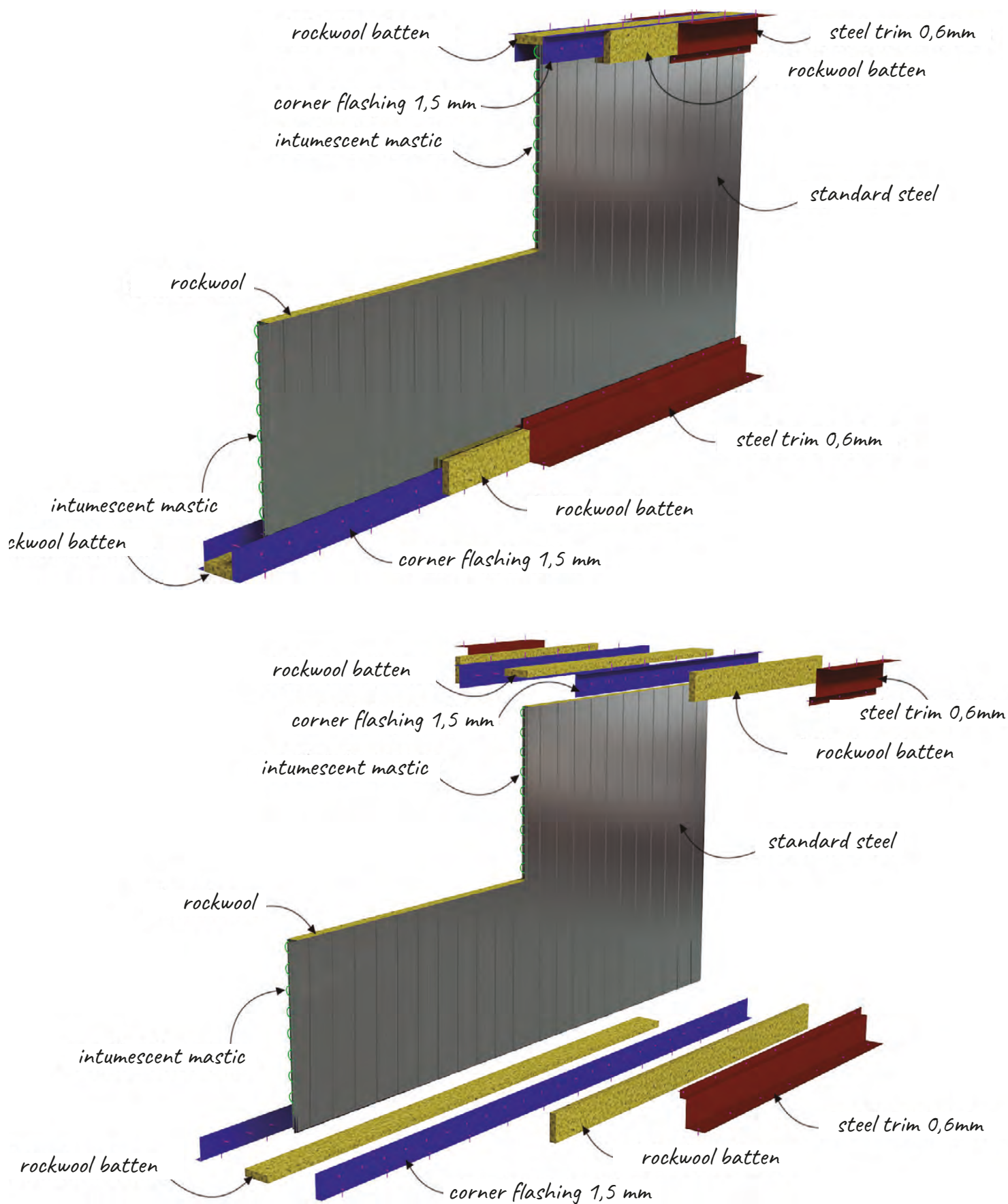
*Width 1,000 mm: available upon request

*PNR: Property not reported

*Horizontal installation: consult installation instructions

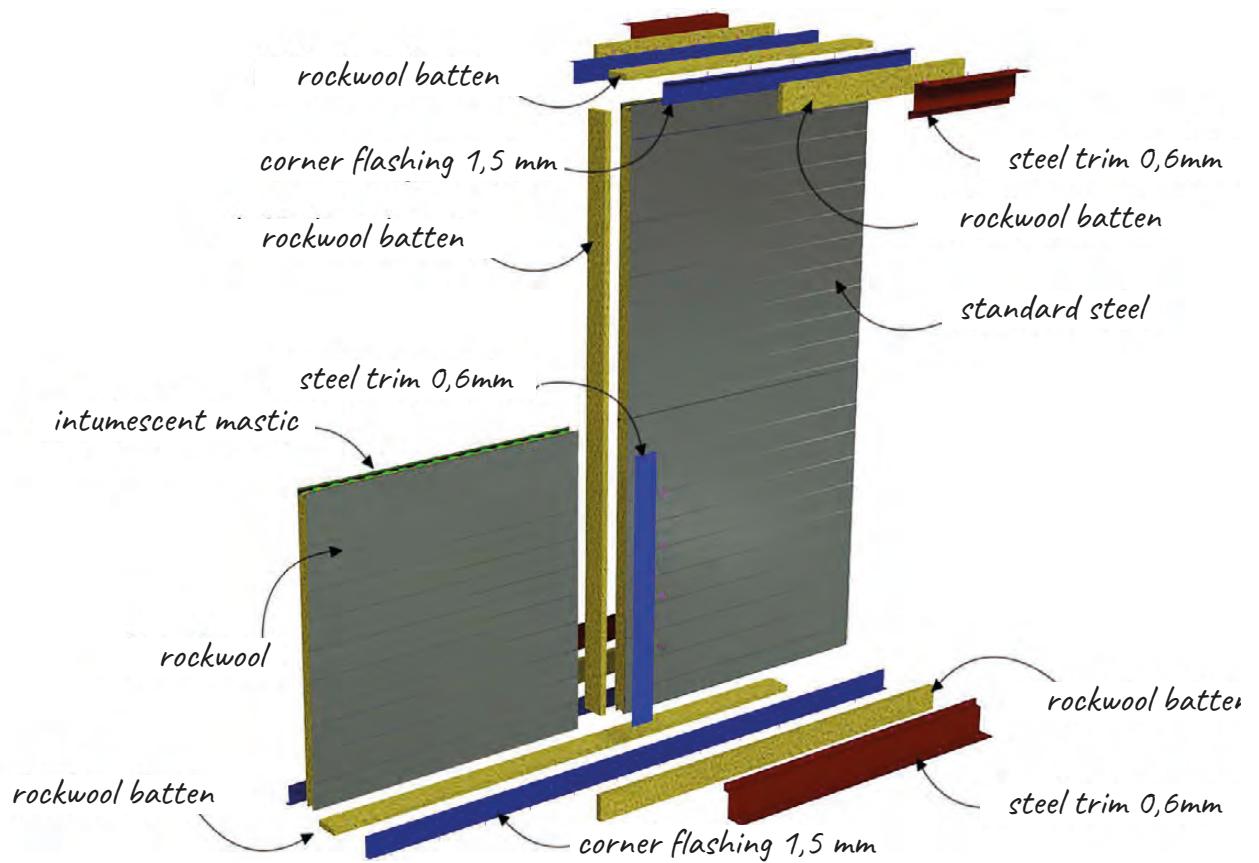
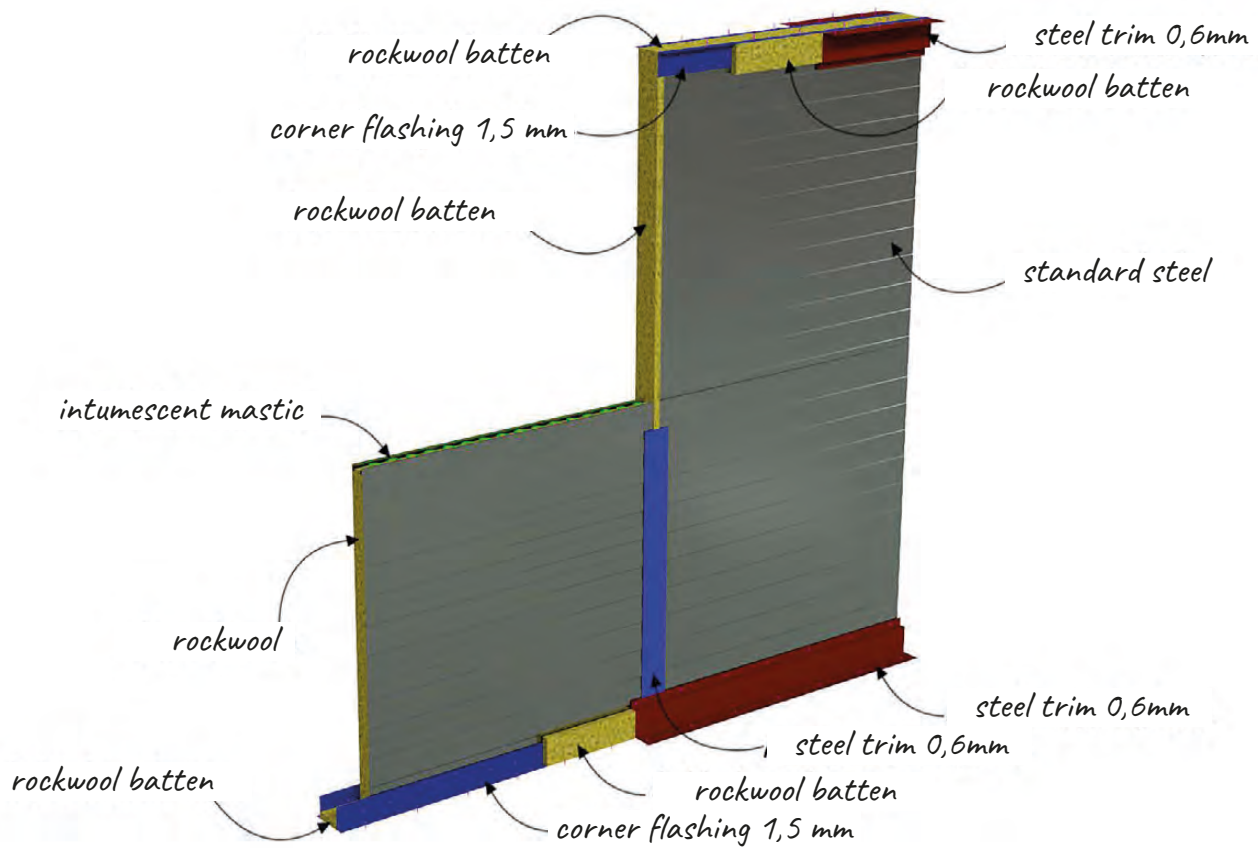
Facade Solution PF1-PFO • Horizontal Installation



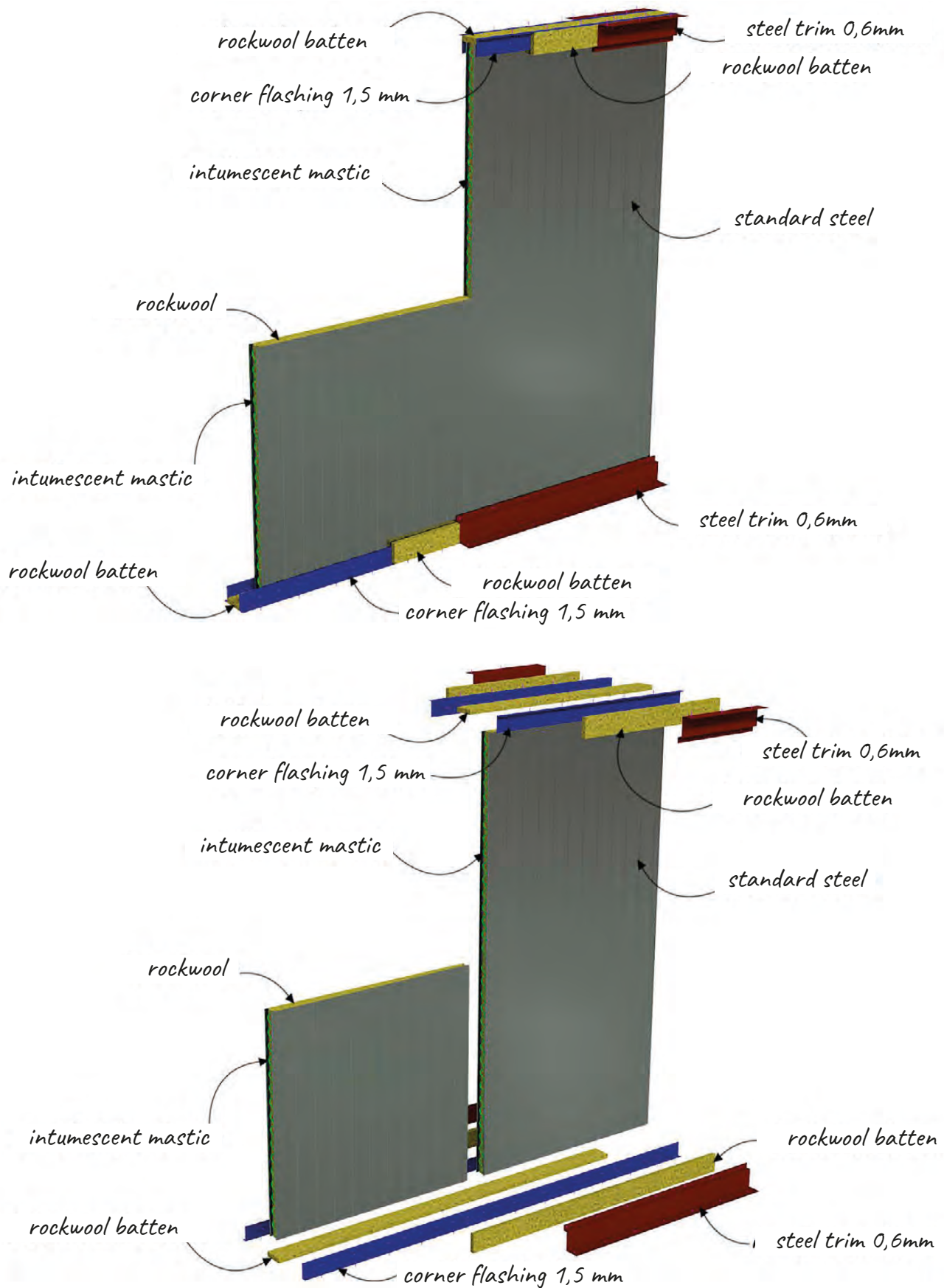


Consult assembly notes for each panel type and installation method

PM1 Partitioning • Horizontal installation with fire resistance



PM1 Partitioning • Vertical installation with fire resistance



*Always check installation notes and certifications.

ACH acoustic screens for roadways

ACH Acoustic Screens consist of sandwich panels with an insulating mineral wool core, with one face being multi-perforated to enhance noise absorption. They are specifically designed to eliminate noise pollution from noise emitting sources, both fixed and moving (road traffic), and to withstand high wind loads.

ACH Acoustic Screens have a tongue and groove joint between the panels, which avoids noise conduction to maximize the levels of insulation and sound absorption.

Noise pollution is minimized by placing the barrier between the emitter and receiver, thereby reducing the impact of harmful and annoying effects on the population.

ACH Acoustic Screens are manufactured with a 25u polyester coating (SP25). Optionally, special coatings can be applied on request to optimize durability characteristics or enable self-cleaning of the surface.

ACH Acoustic Screens offer high mechanical strength and excellent acoustic behavior.

It can be used in a wide range of applications thanks to its excellent characteristics.





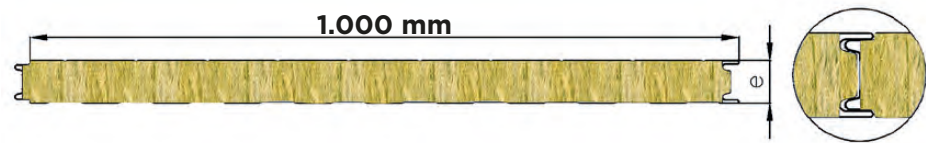
For the most extreme situations, in which the screen is exposed to high winds or turbulence, ACH offers its **Superwind** model, capable of withstanding loads of up to 525 kg/m².

Advantages of ACH screens:

- High level of noise insulation and absorption.
- High mechanical strength (up to 525 kg/m²).
- Very light.
- Fast and easy installation.
- Simple repair if vandalized.
- Safe in case of fire (non-combustible).
- High resistance to humidity.
- Environmentally friendly.
- Choice of colors.
- Easy to maintain.

**Up to
525 kg/m²**

Module and Profile



Acoustic and mechanical characteristics as per the UNE-EN 14388 Standard

Mechanical and acoustic values verified by test reports from accredited laboratories.

Model	Thickness (mm)	Weight Kg/m ²	Mechanical properties				Acoustic properties	
			Vain (m)	Overload (Kg/m ²)	Inform		Absorption classification	Isolation classification
					Number	Date		
Standard	80	18,5	3,00	40	056053-008	23/03/2016	A4 (13dB)*	B3 (31 dB)
		18,5	4,00	130	056053-006	23/03/2016		
	100	21,2	3,00	320	056053-003	15/03/2016	A4 (≥13dB)*	B3 (≥31dB)
		21,2	4,00	200	056053-002 (M1)	23/03/2016		
Superwind	80	21,1	3,00	390	056053-009	23/03/2016	A4 (13dB)*	B3 (31 dB)
		21,1	4,00	225	056053-007	23/03/2016		
	100	23,8	3,00	525	056053-005 (M1)	23/03/2016	A4 (≥13dB)*	B3 (≥31dB)
		23,8	4,00	300	056053-004 (M1)	23/03/2016		

*Also available in A3-B3. Always check certifications. Maximum permissible superimposed loads; the 1.5 design coefficient specified in standard UNE-EN 14388 has not been applied.

ACH Profiled sheets

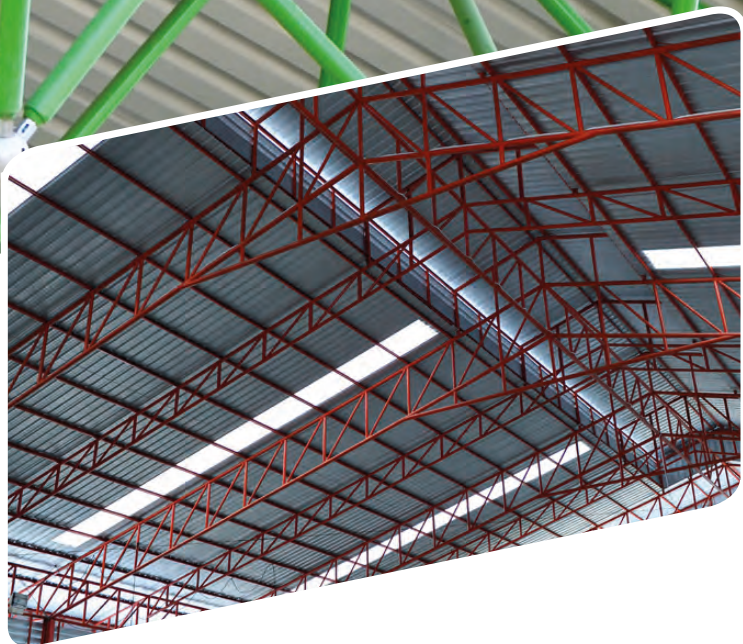
ACH Profiled Sheets are intended to provide an enclosure solution for areas of buildings where, for construction or other reasons, it is more appropriate to install a simple sheet than some other enclosure product.

For this reason, ACH sells high-quality, designed and tested sheets that provide additional features for use in environments involving high noise, low thermal load, high incombustibility and low-sloped roofs.

ACH Profiled Sheets can be either perforated and non-perforated, and offer various paint coatings and finishes using polyester SP25, PVDF, HPS200ULTRA, etc. They have excellent corrosion and durability characteristics.

Applications

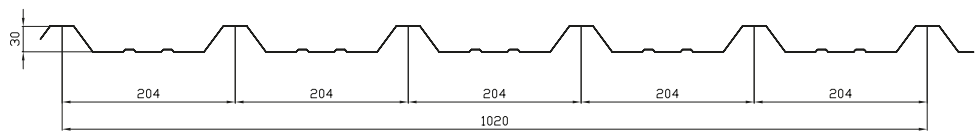
- Acoustic insulation.
- Roof decks.
- Sandwich panels in situ.
- Curtain walls.
- Roofs with dropped ceilings.
- Absorbent surfaces.



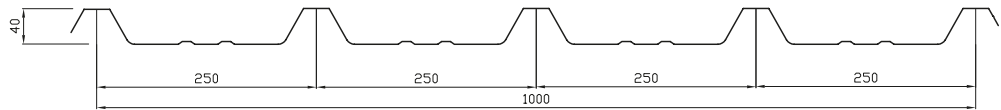


Most common profiles

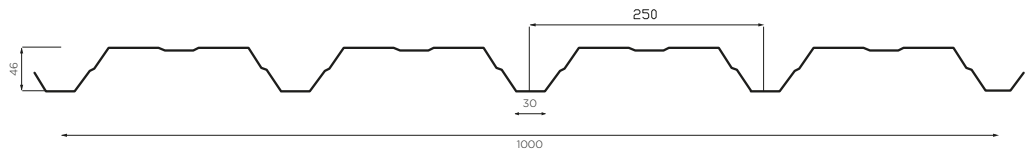
30/204 profiled sheet



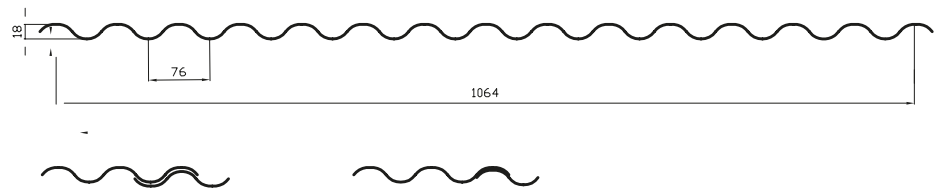
40/250 profiled sheet



46/250 profiled sheet



18 Miniwave profiled sheet



Advantages

- Easy to replace if worn or damaged.
- Quick and easy installation.
- Excellent corrosion and durability characteristics.
- Different finishes available.





ACH Natural lighting

Modular UV protected cellular polycarbonate system for translucent roofs and walls.

The ACH Polycarbonate rooflight is a modular system consisting of co-extruded cellular polycarbonate panels with 7 layers, 30 mm thick and 1,000 mm wide, for assembling flat and curved roofs, as well as vertical walls. It is used as a ridge to gutter skylight interleaved between deck sandwich panels.

A series of anchoring staples make the system both simple and safe for the various types of panels.

Advantages

- Euroclasses B-s1, do reaction to fire and thermal insulation. Not drilled (completely avoids cracking due to expansion). Easy and economic installation.
- Lets light in, solar factor. Resistant to UV rays and hail. High load resistance.
- Can be adapted to every panel on the market.

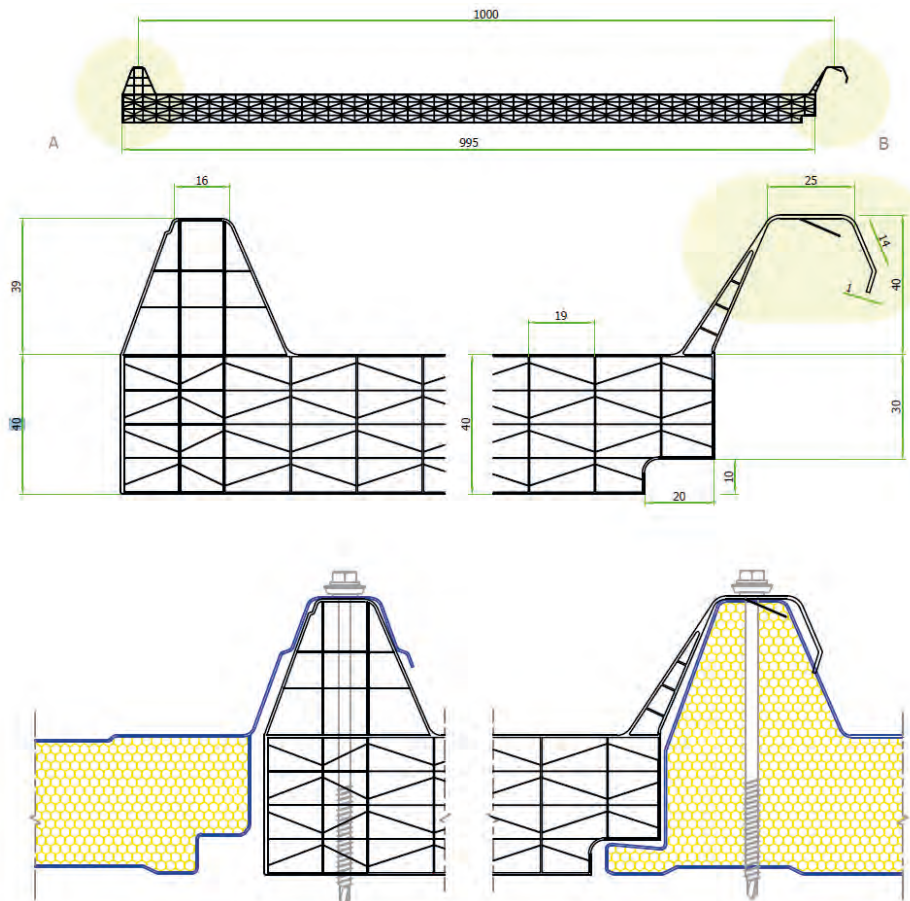


ACH Rib 30

Our panels must be installed from the ridge to the gutter with minimum gradients of 7% and not exceed a purlin distance of 2.0 lm. If the sandwich panel is thicker than the panel to be installed, this difference must be offset by adding a shim to the purlin.

The thermal expansion coefficient of polycarbonate is significantly higher than that of structures and other plastic products, so it is essential to include systems that allow the sheets to expand freely. To attach the panel, oval holes must be made in the top of the wings and ribs with a diameter as specified in the following table. A support must be placed under the rib to avoid vibrations when making the hole.

Panel Length (mm)	Oval Length (mm)
≤2000	10
>2000; ≤4000	14
>4000; ≤6000	18
>6000	18 + 2,6 mm/m



B-s1, d0



ACH Rib 40

A modular system consisting of overlapping corrugated panels for continuous translucent roofing and ridge-to-eave skylights. These are UV-protected co-extruded multiwall polycarbonate panels featuring a 40 mm profile height, a 1000 mm effective width, and a cross-section with 5 ribs and 3 walls. The material thickness is 12 mm (8 mm at the sloped sections of the ribs), resulting in a thermal transmittance (U-value) of 2.5 W/m²K. The panels are manufactured with heat-sealed ends.

Features

- Maximum effective length: 5,000 mm
- High load-bearing capacity
- Longitudinal overlap
- Transverse overlap
- Heat-sealed panels
- Light transmission
- UV and hail resistance
- Thermal insulation

ACH Rib 80

Modular corrugated multiwall polycarbonate system with UV protection for translucent wall cladding and roofing. It features a variable thickness of 8-12 mm, a corrugation height of 80 mm, and an effective module width of 990 mm (± 5 mm). It offers thermal insulation of 2.7 W/m²K.

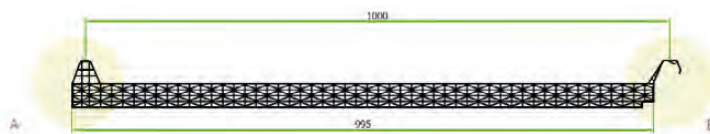
Features

- Maximum effective length: 5,000 mm
- High load resistance
- Longitudinal overlap
- Transverse overlap
- Heat-welded panels
- Light transmission
- UV and hail resistance
- Thermal insulation

ACH Rib 30

Features

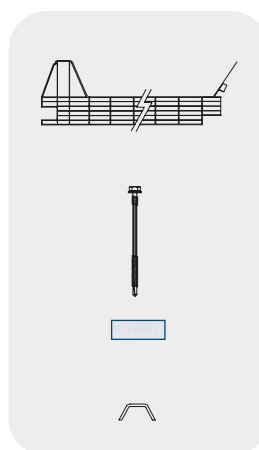
Thickness (mm)	30	40
Vertical cell spacing	24 mm	
Horizontal walls	7	
Effective panel width	1.000 mm	
Rib	with/without	
Length	custom-made	
Solar control (G-value)	Neutral 60 % Opaline 54 %	Neutral 59 % Opaline 58 %
Light transmission	Neutral 59 % Thermal insulation	Neutral 57 % Opaline 30 %
Sound insulation	1,28 w/m ² /°C	1,14 w/m ² /°C
Thermal expansion	23 - dB	
UV protection	0,065 mm/m °C	
Fire rating	outer-layer co-extrusion	
Service temperature	B-s1, d0 (UNE-EN 13501-1:2007)	
10-year warranty	-30° + 120°C	
Decenal Warranty	against hail, transmission loss, yellowing	



Load table

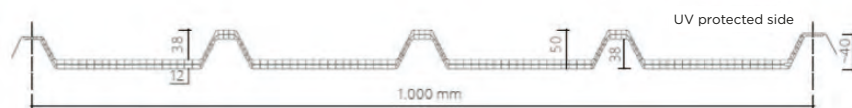
Thickness (m Distance between 3 or more supports m)	Pressure (Pa) 30	Depression (Pa) 40
1000 mm	3240	1650
1250 mm	2540	1320
1500 mm	2150	1100
1750 mm	1785	940
2000 mm	1485	825
2250 mm	980	710

Components

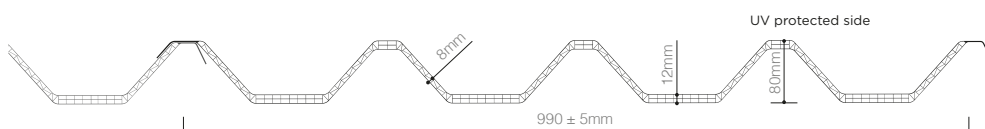


- ACH Polycarbonate GRECA 30 mm
- Fastening screw
- Spacer for panels > 30 mm
- ACH P5G EPDM ridge filler

ACH Rib 40



ACH Rib 80



- For more information on each product, you can visit <https://www.panelesach.com/categoria-producto/policarbonatos-y-placas-de-poliester/>

ACH Trims

At ACH we have a wide range of accessories and fasteners needed to install sandwich panels, profiled sheets and metal purlins.

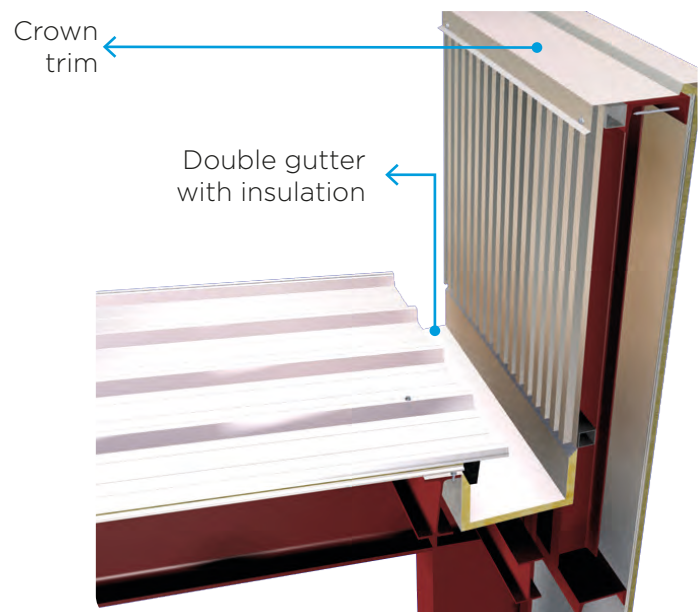
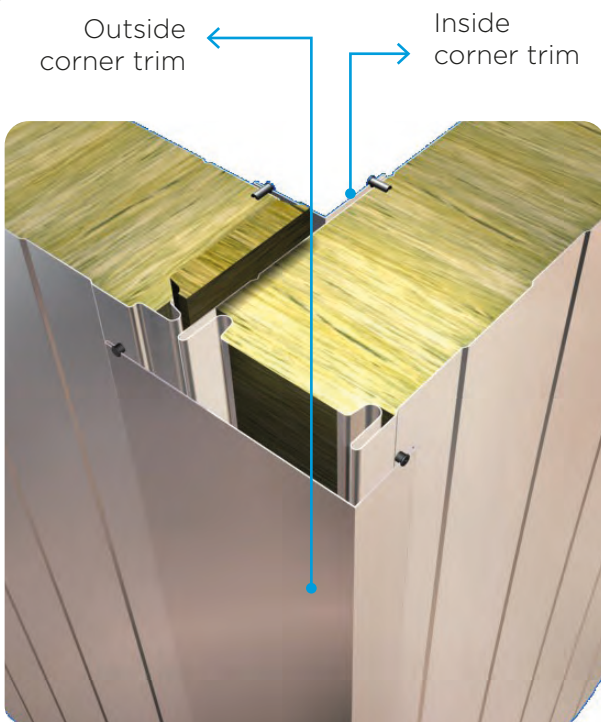
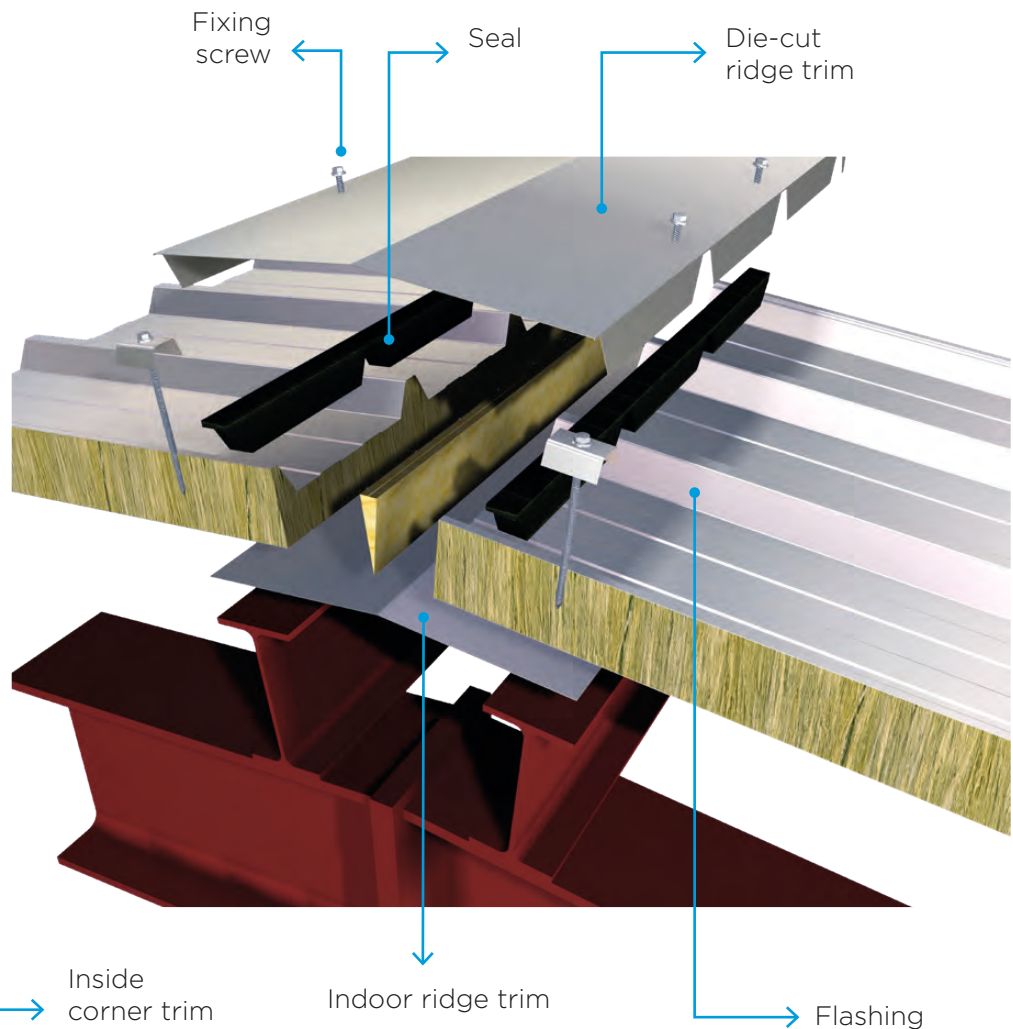
Trims

Trims are steel sheets that can have a multitude of finishes such as pre-lacquered, galvanized, aluminum, and other highly durable coatings. They are used to protect and cover joints or the insulating core of sandwich panels, and keep water or moisture from leaking in. At ACH, we have trims ranging in thicknesses from 0.50 mm to 3.00 mm.



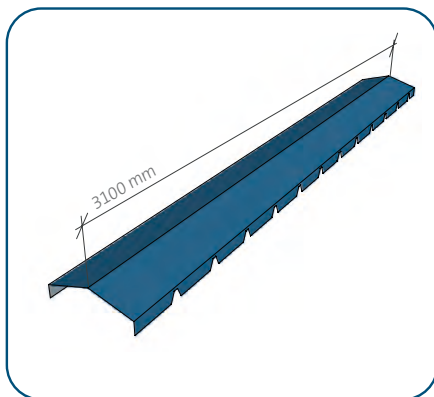
Fasteners and accessories:

We offer specific fasteners for each product type and application, as required. When installing sandwich panels or profiled sheets, the number and positioning of the fasteners are very important, as they provide resistance against external forces such as rain and wind, which can cause leaks or damage.

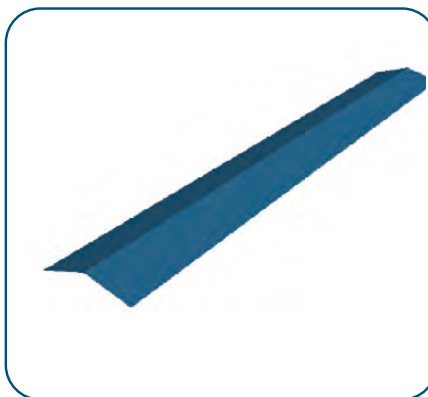


ACH Trims

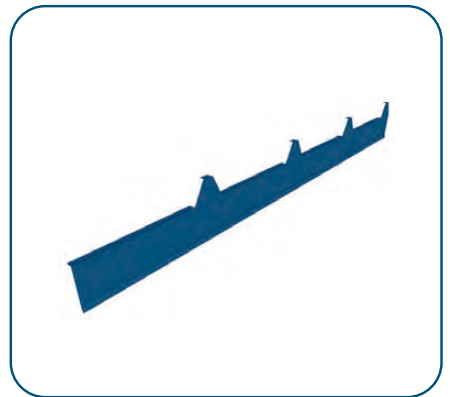
Die-cut ridge P5G



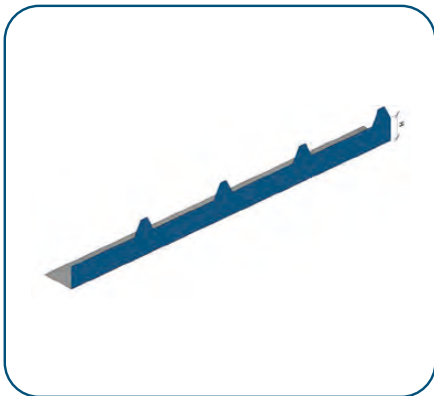
Low ridge



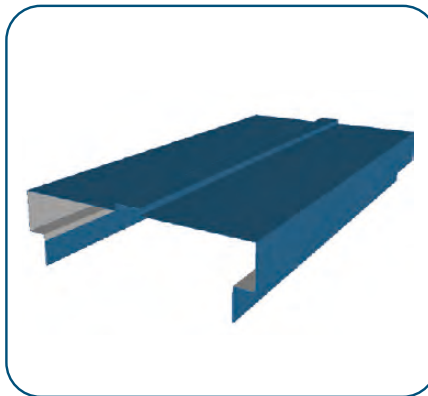
Front cover P5G



Edge closure P5G



Crown piece



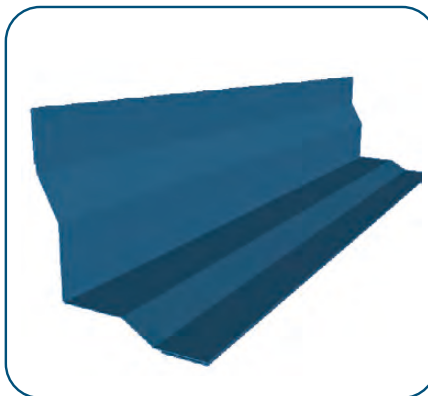
Lateral to gable



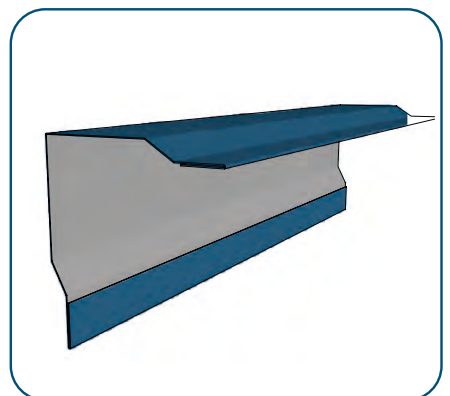
Lateral to wall



Corner



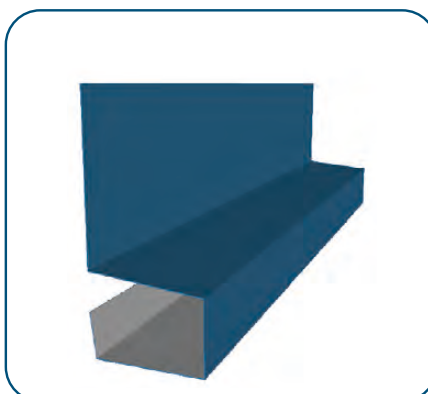
Corner



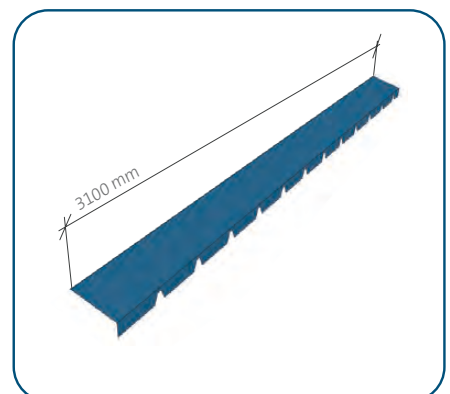
Baseboard on wall



Baseboard attached to wall



Die-cut trim P5G



Vacuum lifting machines

At ACH we have a wide variety of lifting machines for installing and handling sandwich panels.

The innovation that ACH applies to the manufacture of its products is now also evident in these cutting-edge machines, which enable our customers to easily move and handle our products. Some models even feature a remote control that can be used to operate the machine at a distance.

Depending on each project's needs, we can supply the most suitable lifting machine, ideal for quickly and safely moving sandwich panels for both walls and roofs.

All these devices have secondary safety devices as required by the EN13155 standard. The models with a dual vacuum circuit allow the panels to be installed without requiring auxiliary fastening components, such as slings.

They are designed for everyday use and on site, so they have a long service life, and can even be used in the rain.

These devices make it possible to install roof, wall or dividing panels safely and efficiently.



CE

Advantages:

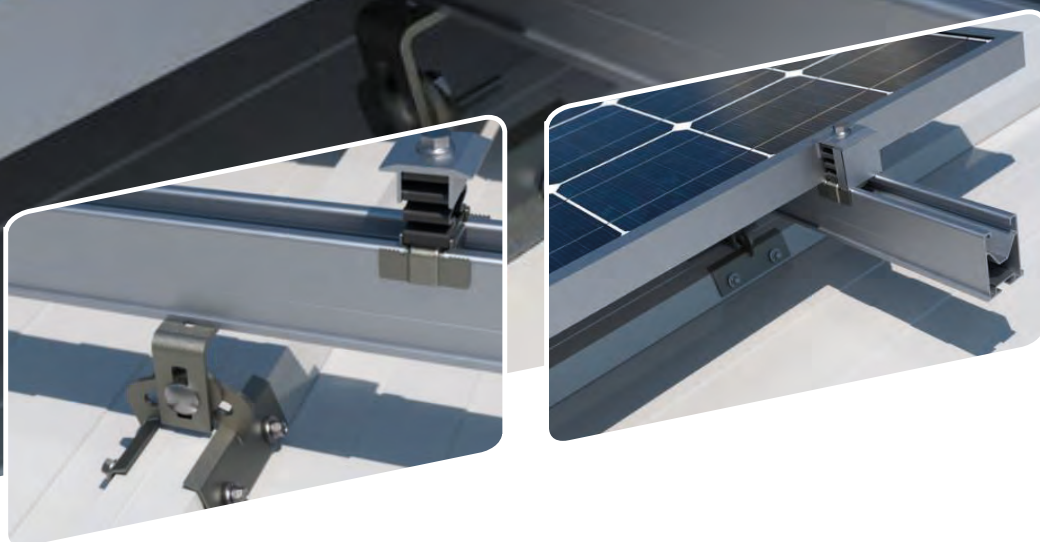
- **Quick installation:** The handling and precision of these lifting machines reduce the time it takes to install the panels. Depending on the device, they also allow roof sandwich panels up to 25 meters in length to be moved.
- **Protection:** the suction cups reduce the risk of potentially damaging the sandwich panels.
- **Safety:** the lifting machines comply with national and international regulations.

Features and benefits

There is a wide range of machines and accessories that adapt to the needs of each work or project and make it possible to safely and quickly install sandwich panels, while avoiding damage thanks to the suction cups.

In addition to the machines shown in the table, models can be configured for each need performance. The load amount can reach 800 kg, and the panels installed can be up to 25 meters long.

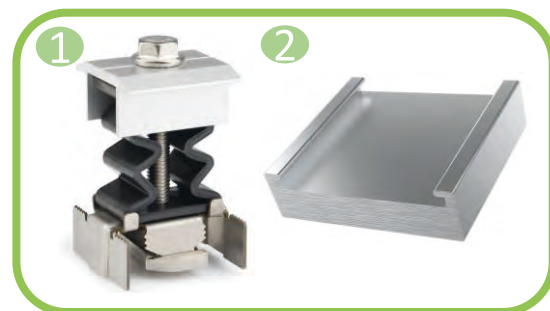
Solar panel mounting systems for corrugated roofs



Premium System

Coplanar installation: Height-adjustable mount for trapezoidal roofs + profile + quick-fastening clamps

- ① Quick-fix clamp.
- ② Aluminum gauge for perimeter clamps.
- ③ INDEXTUT solar perforated rail. Atlantis C4-M steel.
- ④ Aluminum profile for assembled mounting.
- ⑤ Cross connector for bottom mounting.
- ⑥ Height-adjustable bracket for trapezoidal profiles.
- ⑦ Atlantis C4-M self-tapping screw + EPDM vulcanized washer – A2 stainless steel.



Basic System

Direct mounting of solar panels to corrugated roofing:

Coplanar installation: **Butyl tape under the profile** + **profile and mounting hardware** + **quick-fastening clamps**

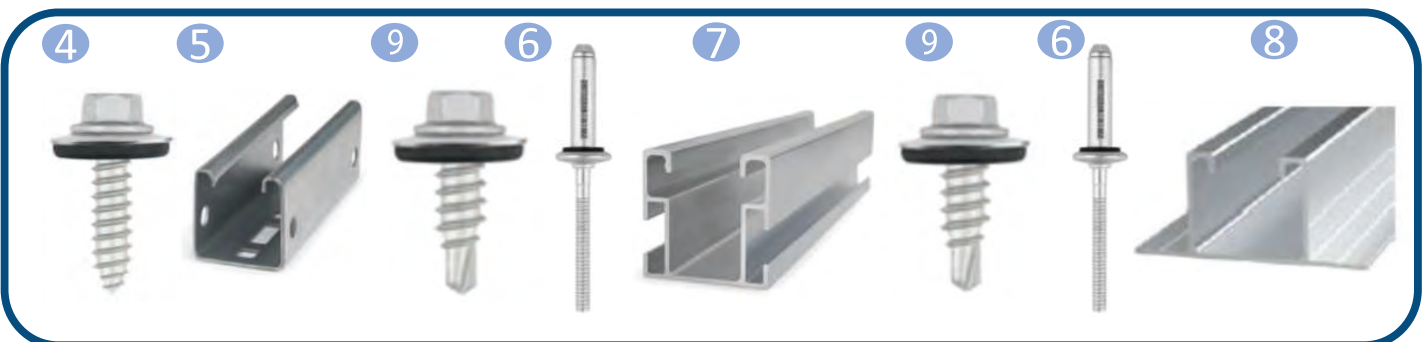


- 1 Quick-fix clamp.
- 2 Aluminum gauge for perimeter clamps.
- 3 Butyl sealing tape.
- 4 Atlantis C4-M self-tapping screw + EPDM vulcanized washer – A2 stainless steel.
- 5 INDEXTRUT solar perforated rail. Atlantis C4-M steel.
- 6 Watertight clover rivet + EPDM vulcanized washer.
- 7 Aluminum profile for side-mounted assembly.
- 8 Aluminum profile with flanges.
- 9 Self-drilling screw (for aluminum profiles).

Horizontal installation (steel profile option)



Vertical installation (only with flanged aluminum profile)



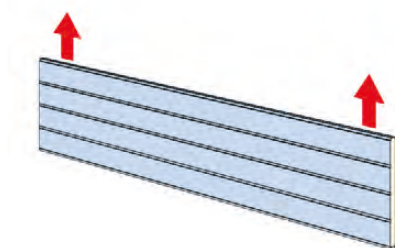
Handling and storage tips

Sandwich panels have a long service life, which is why it is necessary to take certain measures and precautions when handling, storing, transporting and installing them.

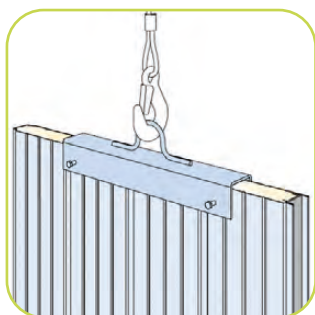
Here are some general guidelines we recommend to avoid damaging the sandwich panels before and during installation.

Transportation, handling and installation

- The panels must be well supported and their weight uniformly distributed during transport. They must be protected by the packaging and tied down on the trucks with slings. If the panels are going to be transported individually, they should be on their side, as shown in the image, to keep them from sagging under their own weight.



- To raise or move the sandwich panels, proceed as follows:
 - Lift the panel vertically, supported on a “U” profile that has previously been screwed to the panel.



- Lift the packages by means of a single or double sling beam. If a double sling beam is used, depending on the length of the panels, a minimum distance between the arms and a maximum distance between the last arm and the end of the panel will be determined. Always use straps so as not to leave marks on the panels. Forklift or pallet trucks can only be used to transport packages that have been expressly ordered with this type of packaging, and only if the panel length makes this possible.



- Sandwich panels can be installed with help from a vacuum lifter or lifting machines with suction cups, since they have a high load capacity and considerably reduce the assembly time without the need to drill the panels. The first panel to be installed has to be leveled. Vacuum lifters can be safely used by a small team to install panels up to 25 m in length.



- If a panel has to be cut, the core must not be removed until it is installed. Appropriate tools must be used if the cut is made on site.
- If sandwich panels are installed as a false ceiling, the panels must not be moved. There are systems designed for this that comply with the current regulations. When access to different areas is required, transit paths must be designed specifically for this purpose, supported in a structure specifically installed for this purpose. Where this structure cannot be installed for said paths, the panels in work or transit areas will be protected with wooden panels that are at least 6 mm thick so as to spread out the load over the panels. These boards must be attached using screws and fastening systems in areas that are not prone to leaking.
- For roof panels, and so as to preserve the warranty, the parts furthest away from the roof access area must be installed first in order to avoid walking on the panels. The installers must only walk on the gutter and, if necessary, transit areas will be reinforced by means of walkways. Installers are advised to install “NO STEP” signs on finished roofs in order to protect it.
- Before lifting the panel, place an edge guard on the bottom of the panel so as not to scratch the outer face of the next panel.

Storage

- Do not remove the protection from the package until the moment of installation. The packages will be on wooden or EPS slats spaced no more than 1 meter apart so that they are not in contact with the ground. This keeps water out if it rains and also allows air flow, preventing potential condensation.
- The packages should not be stored outside; if they are, this time should be minimized since high temperatures or changes in the weather can damage them. If rain is expected, they must be placed on a slope so that the water does not stagnate inside the panels.
- If the panels are wrapped in film, they cannot be stored outside since if they are left in the sun for a long time, the protective film will adhere to the panels and it will be very difficult to remove later.
- They must be stacked no more than 2 high if they have a mineral wool core, and 3 high if the core is made of PIR or PUR.
- The protective film must be removed before the panel is installed, since otherwise, the film may be difficult to remove. Keep in mind that, depending on the type of sandwich panel, this can occur in different phases of the process.
- Avoid storing materials on a suspended ceiling, since individual panels may appear lightweight, but grouped in packages, they can be extremely heavy. If unavoidable, some means must be used to distribute the loads.
- Polycarbonate and polyester panels must never be stored outdoors.
- When storing on a roof, do not stack the packages. Place them perpendicular to the purlins.



*Due to their uniqueness, certain sandwich panels require specific handling and installation methods. The tips provided here are general.

Terms of Sale of Saint-Gobain Transformados, S.A.U.

1. In the wording of these terms, SELLER shall refer to Saint-Gobain Transformados, S.A.U. and BUYER to the customer.

2. Any agreement, condition or term that is not expressed herein must be expressly accepted by the parties and recorded in a reliable manner for it to be valid.

3. The conditions of sale, together with the specific conditions contained in the Seller's order confirmation, and only these documents, constitute the entirety of the agreement between the Buyer and Seller, and void and replace in full any contrary term or condition proposed by the Buyer, as well as any oral or written communication not expressly contained in this document. The agreements established between the Seller or its agents and third parties shall only be valid if confirmed in writing by the Seller. Unless stipulated otherwise, documentation, catalogs and estimates are provided for information purposes only. Any offers made by the Seller are not binding. Additions or variations to the terms set forth herein, mentioned in the Buyer's order or in any other document, including shipping documents, shall not be binding on the Seller, unless expressly agreed to in writing by the Seller. The return of the order confirmation signed by the Buyer, or alternatively, the absence of rejection thereof by the Buyer within three days of its receipt, shall constitute acceptance by the Buyer of the contract contained in this document.

The sales contract shall be deemed to be finalized when the parties, aware of the content herein, enter into the corresponding contract. The seller can insure the sale by purchasing a sale credit insurance from any Insurance Company. If the seller opts to purchase this insurance and the Insurance Company refuses to insure the sale, the sales contract will be voided. In this case, the seller shall inform the buyer that the contract is voided and return any amounts received on account, with no further obligation on its part. The seller reserves the right to make any other arrangements with the buyer to finalize the purchase.

4. Ownership of the merchandise subject to the sale shall be deemed to be transferred when the seller makes it available to the buyer at the place of delivery, as specified in point 12.

5. If the seller receives and accepts an order from the buyer, this will be binding on both and it can only be canceled with the consent of both parties.

6. Once the buyer signs the original order conditions, changes can only be made if agreed by the seller. In any case, the manufacturing parameters accepted by the buyer will be firm from the time they are accepted and signed. As a result, the production of this material shall not be open to any demand for modifications that occur after signing that have not been expressly accepted by the seller.

7. The price agreed shall be for the merchandise with the exact accessories that are specified in the purchase contract. The price of transporting the materials to the destination, if not done by the buyer, shall be agreed and reflected in the sales contract.

8. The method of payment shall be determined by the parties when the sales contract is finalized.

9. The agreed purchase price may be subject to modifications by the seller from the time the sales contract is signed until the items are delivered to the buyer. Said revision to the price may

occur when the price changes unexpectedly due to: a change in the legal provisions on which it is based, further variations in the costs involving the manufacturing materials used, labor, insurance or transport, or, if the merchandise contains imported materials, due to changes in customs duties, euro exchange rates, etc.

10. The bank charges that may be applied for postponing the payment of the price agreed in the sales contract shall be calculated at the legally specified delay interest rate.

11. All taxes, fees or duties resulting from the transfer of possession and ownership of the goods shall be borne by the buyer.

12. The goods supplied shall remain the property of the seller until the buyer satisfies its payment obligations as stipulated above.

13. The transportation of the goods subject to sale is regulated by Law 16/1987 of 30 July, Title 1, Chapter III.

14. The merchandise subject to sale shall be deemed to be delivered to the buyer when it is received by the carrier hired to transport it to the destination specified by the buyer.

15. When, at the request of the buyer or for reasons attributable to it, the shipment of the goods is delayed, the delivery shall be deemed to be finalized once the seller notifies the buyer that the goods are available at its warehouse. Therefore, the seller shall not be responsible for any damage to the goods, since their prolonged exposure to the weather affects their external appearance, causes rust and modifies the physical characteristics of the removable film protecting them and the packaging material. Twenty days after the buyer is notified that the goods are available, the seller shall apply a fee for each additional day of 0.02 €/m², to be added to the price of the goods as storage costs. The seller shall not be responsible for any damage to the goods, as specified above.

16. The seller reserves the right to cancel the agreed delivery if the buyer fails to make any scheduled intermediate payments that are due between the order and delivery dates.

17. Unless otherwise expressly stipulated, delivery periods shall not be considered binding and delivery delays shall not entitle the buyer to compensation. A binding delivery period shall only entitle the buyer to compensation to the extent that the seller has been fully informed in writing at the time the contract is signed of the possible damages and losses that would result from a delay in delivery.

18. If for reasons beyond the control of the seller, the goods cannot be made available at their destination, or if they cannot be delivered or unloaded, this shall not absolve the buyer from any payment obligations it has accepted.

19. Expenses arising from the transportation and insurance of the goods shall be borne by the buyer, unless otherwise stated in the sales contract.

20. Any advice or assistance that the buyer provides to the seller involving any product supplied shall not entail any liability for the seller when said advice or assistance is not required by the sales contract.

21. If the buyer transfers ownership of or leases the products referred to in this sales contract, the buyer must obtain from the third party a statement in which it exonerates the seller

from any potential claims that may arise. Failure to obtain said statement shall in no way assign fault-based liability to the seller.

22. The seller guarantees that the products supplied are free from any legitimate third-party claim involving patent infringement in Spain or in the country of origin of the product.

23. The above article shall not apply to any product or part thereof designed by the buyer, or to the use of any product supplied in conjunction with any other product in a combination not provided by the seller. In this case, the seller assumes no responsibility, and the buyer expressly agrees to hold the seller harmless for any dispute arising from the aforementioned case.

24. Each and every one of the conditions of sale set forth herein is mandatory for any sales contract that is entered into with Saint-Gobain Transformados, S.A.U.

25. Force Majeure. The inability or delay by the seller in executing the manufacture, dispatch or delivery of the goods covered by this contract resulting, in whole or in part, from situations of war (declared or undeclared), strike, labor dispute, accident, fire, flooding, acts of God, transportation delays, material shortages, equipment failures, conditions of the facilities, laws, regulations, ordinances or decrees issued by any agency or Government body, or any cause that is reasonably beyond the control of seller, or the occurrence of a contingency that prevents the seller from carrying out its obligations, when their absence was implied as a condition for issuing this order confirmation, shall not give rise to liability for the seller.

26. In the event of a dispute, all parties expressly submit to the Courts of the city of Madrid.

27. Definitions

1. SMOOTH PANEL

The panel supplied by Saint-Gobain Transformados, S.A.U. is an industrial type panel. Therefore, it is perfectly acceptable if its surface, especially when it is smooth, exhibits slight undulations typical of the sheet metal winding process. Likewise, the tension to which the adhesive subjects the top layers can cause slight undulations and/or random concavities on its surface, especially when the surface is smooth, and therefore less supportive than if it were micro-profiled. This does not imply any manufacturing defect or deficiencies in the mechanical performance of the panels.

2. PANEL AND SHEET WITH METAL COLORS

None of the steelmakers producing pre-lacquered sheet metal guarantees the optical homogeneity of two sheets from different paint batches in the case of metallic colors (especially Silver Metallic RAL 9006). These colors may not exhibit uniform optical behavior. That is, the tone may differ from one reel (or paint batch) to another. This does not mean that they are different colors, but that the tone and the optical perception change. It is the buyer's responsibility to notify the manufacturer if a metallic-colored panel order is going to be used as an extension or continuation of a previous order. If this is not the case, given that the steelmaker does not guarantee it, there may be differences in tone between panels that are not due to negligence by Saint-Gobain Transformados S.A.U. That being said, it is highly recommended to divide the order

by walls or sides to ensure that different reels are not mixed in the same span.

3. PERFORATED PANELS

Perforated panels are not subject to cosmetic specifications. The product is designed for industrial applications in which the aesthetic is consistent with the environment in which it is applied, this determination being subjective. In addition, if the panel is drilled on both sides, during the manufacturing process the glue is applied to each sheet differently: one with (the outer sheet) and another against (inner sheet) the force of gravity. This produces a slight difference between the two sheets in terms of the overflow of adhesive through the holes. This effect from the adhesive is highlighted based on the observer's proximity to the panel and the tonality of the sheet, with darker colors contrasting more with the color of the adhesive. The sheet where the adhesive is applied in the direction of gravity can exhibit adhesive overflow that is acceptable in an industrial environment but detrimental to a cosmetic finish. These evaluations are always subjective. Complaints or claims involving the product for reasons of this nature will not be accepted.



**SAINT-GOBAIN
TRANSFORMADOS S.A.U.**
C/Los Corrales,
Parcelas C5 yC6,
Polígono Industrial "La Balletera"
19208 Alovera, (Guadalajara) - España
panelesach@saint-gobain.com
www.panelesach.com

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