sab profiel

A Tata Steel Enterprise

Product selector

Metal roof and wall systems

Sandwich panels, profiled cladding, purlins and flashings as ready-made solutions for the construction of modern and high quality industrial buildings, sport centres, offices and homes.

BEFORE YOU START BROWSING

Thank you very much for taking an interest in SAB-profiel roof and wall systems. Our extensive product range is available in a variety of metals and a wide range of coatings and colours, enabling you to create individual buildings.

Reliability comes with experience

SAB-profiel began operating in the market for roof and wall solutions in 1973 when we were the sole manufacturer of steel profiled cladding in Holland. Since then we have developed into a leading supplier of roof and wall systems. We are now part of the Tata Steel network, and operate throughout Europe.

Quality assured

SAB-profiel has an ISO 9001, ISO 14001, FM and BES 6001 certification and continues to endeavour to improve on quality and sustainability. In order that SAB-profiel can continue to achieve the quality our customers would expect, we maintain close links with major research institutes in the Netherlands and abroad. We are members of several trade associations including the Netherlands Association Metalen Dak- en Gevelmaterialen (MDG) and the European Association for Panels and Profiles (PPA Europe / EPAQ). Our close links with Tata Steel and fellow suppliers and noted institutes allows us to enjoy extensive research and development facilities.

SAB-profiel recognises the importance of good service

SAB-profiel uses its vast knowledge not only to develop new products but also to provide unrivalled support for our existing product range. Our Product Services department is always on hand to provide clear and knowledgeable advice. Furthermore, we can offer you delivery on site.

Ordering

We have devised simple but detailed order forms, which provide full specifications along with your order thus enabling swift processing. These forms can be found at www.sabprofiel.com. Our General Terms & Conditions provide further information on how best to meet your specific order requirements.

Queries or comments?

If you have any queries about our products or services, please call us on +31 30 68 79 700 or e-mail us at info@sabprofiel.nl. After all, two heads are usually better than one. Together we make the difference.

What else can SAB-profiel offer?

Besides this product selector, -SAB-profiel's literature -includes technical information, -calculation software, colour charts and -several product specific brochures. You can find us on the Internet at www.sabprofiel.com, which offers downloads of a wide range of -useful up-to-date documents and several reference projects. Should you require further -information, please do not hesitate to call us on: +31 30 68 79 700.

CONTENTS

1. SANDWICH PANELS

In this section you will find a comprehensive list of our extensive range of sandwich panels. These panels are available for both roof and wall applications and in a wide range of core materials. When selecting sandwich panels, please take load factor, safety factor and deflection requirements into consideration. For further technical data, please contact our Product Services department. Should you choose to exceed the recommended maximum lengths, please contact our Sales department.

Characteristics of sandwich panels

- Since they are factory assembled they allow swift easy installation thus minimising risks on site.
- Lightweight: 10 to 40 kg/m^2 (depending on thickness and model), enabling the use of a lighter structure and foundations.
- Excellent insulation properties.
- Available in a wide range of coatings and colours.
- Panels with an apparently smooth surface finish, thanks to special ribbing patterns.
- Guaranteed fire resistance characteristics.
- Convenient and simple connection to the load-bearing structure enabling for easy and relatively -inexpensive subsequent modifications or expansions of the - building.

Applications for sandwich panels

- Walls
- Firewalls
- Roofs

Insulation sandwich panels

The exterior and interior skins of a sandwich panel do not touch one another, thus eliminating cold-bridging and giving superior thermal insulation properties. Also the sound insulation properties are at 26dB, which is excellent. Standard sandwich panels are fitted with a compactable seal in the joint.

Protective film on sandwich panels

All sandwich panels are delivered with a protective film applied to the exterior skin as standard.

Coding:

W	**B**	**F**	**100**	**.**	**1000**	**M8**	**L**

W ⟶ Application (W = wall/ D = roof)

B ⟶ Fixing (B = secret fixed)

F ⟶ FM approval

100 ⟶ Overall thickness in mm

1000 ⟶ Cover width in mm

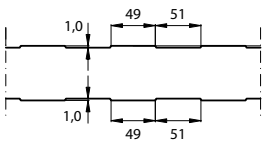
M8 ⟶ Exterior ribbing

L ⟶ Interior lining

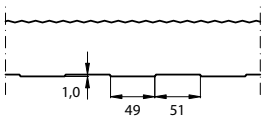
A ⟶ A side

B ⟶ B side

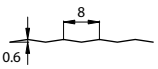
LL



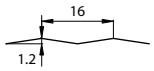
ML



M8



M16



1a. PIR-foam wall panels

The PIR-foam panels supplied by SAB-profiel are distinguished by a combination of high insulation characteristics and low weight. The heat insulation value of the panels was established in accordance with EN 14509. The seal in the joint can be easily compacted, and produces an excellent airtight seal under even the slightest compression. This greatly benefits the insulation value.

- All SAB PIR foam wall panel types have an sound insulation value of 26 dB.
- All PIR-foam panels supplied by SAB-profiel are free of fiber and hydro chlorofluorocarbons (HCFC's).
- PIR-foam sandwich elements fall into category B-s2,d0 according to the EN 13501-1 standard.
- Fire-resistance is 30 minutes for SAB WB EW30 and SAB W EI30.
- The WB and W range (page 6-7) of SAB-profiel is also available with FM approval.

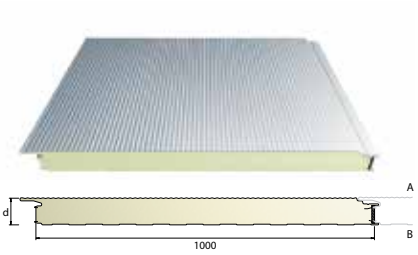
Sandwich panels / PIR / Wall / Secret fixed

Secret fixed sandwich panels can be used vertically and horizontally. No screws are visible with this type of panel, as a result of invisible mountings are used. This creates an uncluttered façade that is aesthetically appealing to the eye. SAB WB 80.1000 en SAB WB 100.1000 are also available in the special EW30 version. The secret fixed sandwich panels are available in different ribbed designs.

FM APPROVED

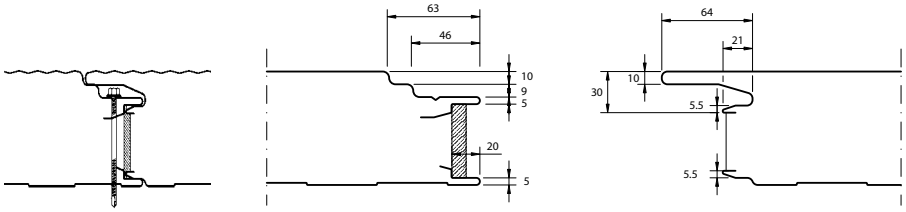
FM Global is the largest insurer of industrial buildings worldwide. In order to limit the risk of damage, FM has its own test facilities in the United States to assess and certify construction products e.g. on wind, hail and fire properties. SAB can supply the WB and W panels in ML and LL with an FM approval for: FM standards 4880 and 4881.

SAB WB 60-80-100-120



Type	Ribbing			Thickness	Weight •	Rc	U	Max. length
	LL	M8L	M16L	mm	kg/m²	m²K/W	W/m² K	m
SAB WB 60.1000	o	o	o	60	11,45	2,62	0,36	12,0 ••
SAB WB 80.1000	o	o	o	80	12,25	3,60	0,26	12,0 ••
SAB WB 100.1000	o	o	o	100	13,05	4,55	0,21	13,8 ••
SAB WB 120.1000	o	o	o	120	13,85	5,50	0,18	13,8 ••

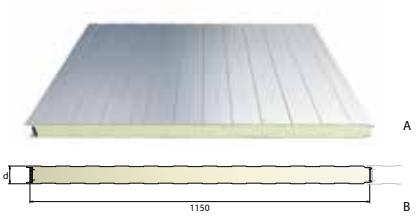
•) Weight with steel exterior and interior skins with gauges of 0.55 and 0.45mm respectively, other gauges are also possible.
••) Recommended maximum length, greater lengths may be available on request.



Sandwich panels / PIR / Wall / Through fix and special

The through fix sandwich panels are available in many different thicknesses. In this case the screws in the panels are visible. Through fix sandwich panels can be used vertically and horizontally and are available in different ribbings. The W 120-150 are suitable for use in cold rooms and the conditioned food industry. The seal in the joint can be easily compressed and will provide an excellent airtight seal under the slightest compression. The special TL and SL sandwich panels with a trapezoidal and wave profile are ideal for combining with the corresponding profile plates of this type (see section 3).

SAB W 40-60-80-100-120-150



Type	Ribbing			Thickness	Weight •	Rc	U	Max. length
	LL	M8L	M16L	mm	kg/m²	m²K/W	W/m² K	m
SAB W 40.1150	o	o		40	9,93	1,81	0,50	9,0 ••
SAB W 60.1150	o	o		60	10,73	2,77	0,34	12,0 ••
SAB W 80.1150	o	o		80	11,53	3,70	0,26	12,0 ••
SAB W 100.1150	o	o	o	100	12,33	4,65	0,21	13,8 ••
SAB W 120.1150	o	o	o	120	13,13	5,59	0,17	13,8 ••
SAB W 150.1150	o	o	o	150	14,33	6,98	0,14	13,8 ••

•) Weight with steel exterior and interior skins with gauges of 0.55 and 0.45 mm respectively, other gauges are also possible.
••) Recommended maximum length, greater lengths may be available on request.

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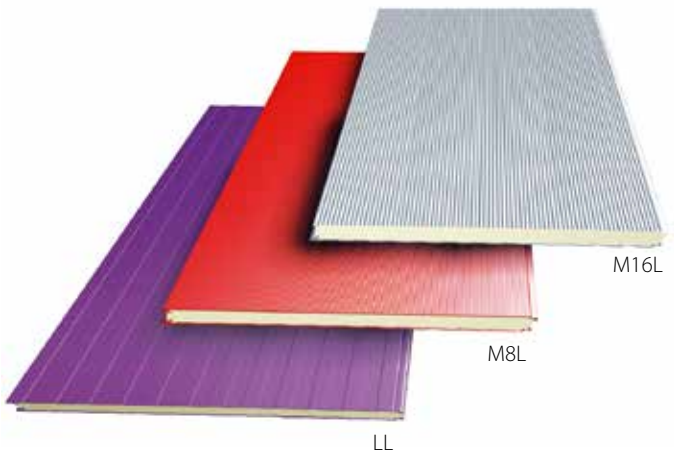
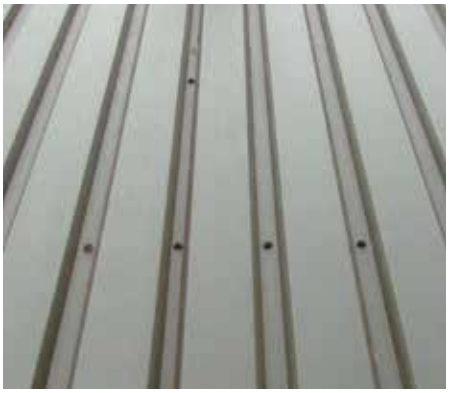
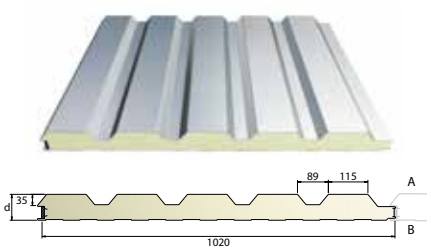
FM Global is the largest insurer of industrial buildings worldwide. In order to limit the risk of damage, FM has its own test facilities in the United States to assess and certify construction products e.g. on wind, hail and fire properties. SAB can supply the WB and W panels in ML and LL with an FM approval for: FM standards 4880 and 4881.





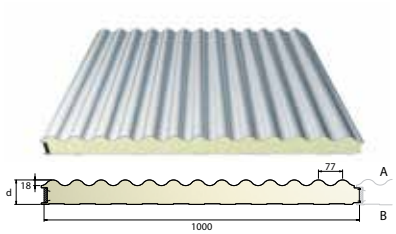
SAB W 95-135 TL



Type	Ribbing	Thickness	Weight •	Rc	U	Max. length
	TL	mm	kg/m²	m²K/W	W/m² K	m
SAB W 95.1020 TL	o	95	12,36	3,48	0,27	15,0 ••
SAB W 135.1020 TL	o	135	13,53	5,39	0,18	15,0 ••

•) Weight with steel exterior and interior skins with gauges of 0.55 and 0.45 mm respectively, other gauges are also possible.
••) Recommended maximum length, greater lengths may be available on request.

SAB W 100-120 SL



Type	Ribbing	Thickness	Weight •	Rc	U	Max. length
	SL	mm	kg/m²	m²K/W	W/m² K	m
SAB W 100.1000 SL	o	100	14,10	3,81	0,25	16,0 ••
SAB W 120.1000 SL	o	120	14.70	4,59	0,21	16,0 ••

•) Weight with steel exterior and interior skins with gauges of 0,63 and 0,50 mm respectively.
••) Recommended maximum length, greater lengths may be available on request.

Sandwich panels / PIR / Wall / Fire-resistance

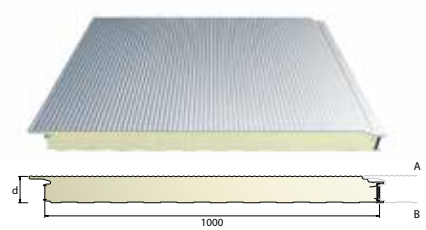
Fire resistant sandwich panels are particularly suitable for use in new build and refurbishment projects requiring a high fire resistance grading. This is particularly beneficial in circumstances where the walls of a building are located close to the boundary wall and in situations where reaction to fire is very important such as the escape routes and partion walls between compartments in a building. All panels have been tested in the fire laboratory of an independent organisation called Efectis.

Overview fire resistance SAB sandwich panels

Type	Thickness (mm)	Standard	WBDBO	Result	Max. loadspan	Fireclassification	Report
SAB WB EW30	80-100-120	EN 13501	> 60 minutes	Fire resistance from inside to outside > 30 minutes	4000 mm	B-s2,d0	2010-Efectis-R0814
SAB W EI30	120-150	EN 13501	> 60 minutes	Fire resistance from inside to outside > 30 minutes and also from outside to inside > 30 minutes	4000 mm	B-s2,d0	2011-Efectis-R0090
SAB W EI15	95-135	EN 13501	> 30 minutes	Fire resistance from inside to outside > 15 minutes	4000 mm	B-s2,d0	2012-Efectis-R0382b

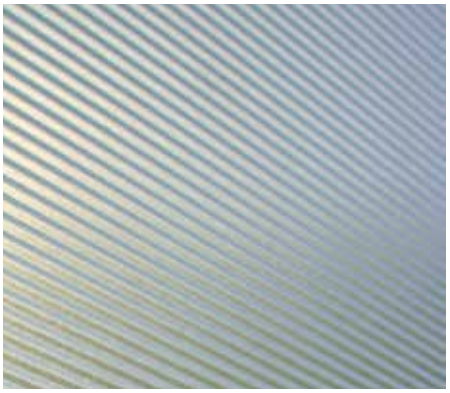
SAB WB 80-100-120 EW30

The EW30 sandwich panels have a fire-resistance of 30 minutes, but have the same ribbing possibilities and properties as the standard SAB WB series.



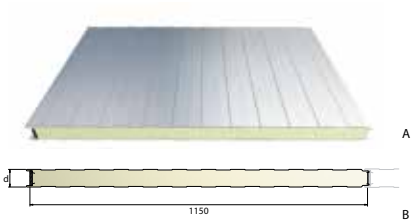
Type	Ribbing			Thickness	Weight •	Rc	U	Max. length
	LL	M8L	M16L	mm	kg/m²	m²K/W	W/m² K	m
SAB WB 80.1000 EW30 •••	o	o	o	80	13,43	3,60	0,26	12,0 ••
SAB WB 100.1000 EW30 •••	o	o	o	100	14,23	4,55	0,21	13,8 ••
SAB WB 120.1000 EW30 •••	o	o	o	120	15,03	5,50	0,18	13,8 ••

•) Weight with steel exterior and interior skins with gauges of 0,63 and 0,50 mm respectively.
••) Recommended maximum length, greater lengths may be available on request.
•••) Joint stitching every 100 mm.



SAB W 120-150 EI30

To get a fire-resistance of 30 minutes from the inside to the outside and also from the outside to the inside you can use the sandwich panel SAB W 120 or 150 EI30. This can also be used as an inside wall.



Type	Ribbing			Thickness	Weight •	Rc	U	Max. length
	LL	M8L	M16L	mm	kg/m²	m²K/W	W/m² K	m
SAB W 120.1150 EI30 •••	o	o	o	120	14,21	5,59	0,17	13,8 ••
SAB W 150.1150 EI30 •••	o	o	o	150	15,41	6,98	0,14	13,8 ••

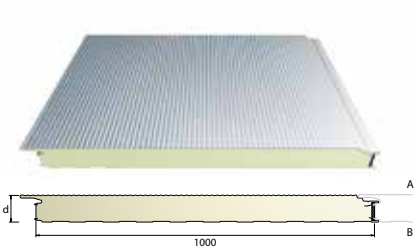
•) Weight with steel exterior and interior skins with gauges of 0,63 and 0,50 mm respectively.
••) Recommended maximum length, greater lengths may be available on request.
•••) Joint stitching every 500 mm.

Also available: SAB W 95-135 EI15
For more information, see SAB website.

Sandwich panels / PIR / Wall /Carrier

SAB-Carrier panels are sandwich panels that act as a supporting wall for rainscreen systems. They offer the best solution for ease of construction and aesthetic variety. Other products and systems are possible in consultation with SAB. With SAB-Carrier panels a new building that is well insulated, windproof and waterproof can quickly be constructed. Following this a beautiful and varied appearance can be created by installing a variety of rainscreen systems. The SAB-Carrier panels are produced with increased foam adhesion and a thicker gauge of the external skin. A good fixing of the SAB rail system on the sandwich panels is obviously important. A number of SAB-Carrier panels are also available in special EW30 and EI30, which have a fire resistance of 30 minutes.

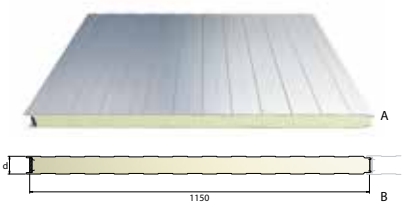
SAB-Carrier WB 80-100-120



Type	Ribbing	Thickness	Weight •	Rc	U	Max. length
	M8L	mm	kg/m²	m²K/W	W/m² K	m
SAB-Carrier WB 80.1000	o	80	13,01	3,60	0,26	12,0 ••
SAB-Carrier WB 100.1000	o	100	13,81	4,55	0,21	13,8 ••
SAB-Carrier WB 120.1000	o	120	14,61	5,50	0,18	13,8 ••

•) Weight with steel exterior and interior skins with gauges of 0,63 and 0,45 mm respectively.
••) Recommended maximum length, greater lengths may be available on request.

SAB-Carrier W 80-100-120-150



Type	Ribbing	Thickness	Weight •	Rc	U	Max. length
	M8L	mm	kg/m²	m²K/W	W/m² K	m
SAB-Carrier W 80.1150	o	80	12,19	3,70	0,26	12,0 ••
SAB-Carrier W 100.1150	o	100	12,99	4,65	0,21	13,8 ••
SAB-Carrier W 120.1150	o	120	13,79	5,59	0,17	13,8 ••
SAB-Carrier W 150.1150	o	150	14,99	6,98	0,14	13,8 ••

•) Weight with steel exterior and interior skins with gauges of 0,63 and 0,45 mm respectively.
••) Recommended maximum length, greater lengths may be available on request.

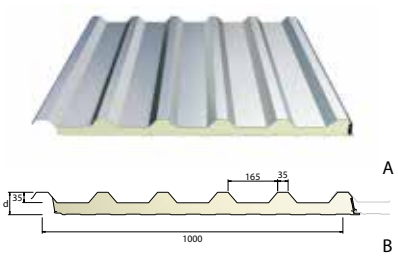
Also available: SAB-Carrier W 95-135 TL
For more information, see SAB website.

1b. PIR-foam roofing panels

The properties of the PIR panels make them ideal materials to be used on the roofs. They can be delivered with a thickness of 75 mm to 135 mm, depending on the insulation that you desire. The thicker the panel, the more energy-efficient the building.

When using pre-finished steel panels in roofing applications, SAB-profiel recommends the following:
- A roof pitch of at least 10 degrees
- A coating system with a nominal thickness of at least 35 µm

SAB D 75-95-115 -135



Type	Ribbing	Thickness	Weight •	Rc	U	Max. length
	TL	mm	kg/m²	m²K/W	W/m² K	m
SAB D 75.1000	o	75	11,22	2,07	0,45	12,5 ••
SAB D 95.1000	o	95	12,02	3,02	0,31	15,0 ••
SAB D 115.1000	o	115	12,82	3,97	0,24	15,0 ••
SAB D 135.1000	o	135	13,62	4,93	0,20	15,0 ••

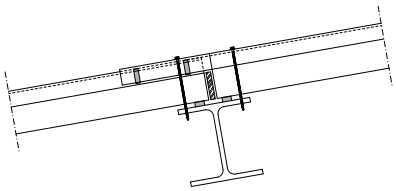
•) Weight with steel exterior and interior skins with gauges of 0.55 and 0.45 mm respectively, other gauges are also possible.
••) Recommended maximum length, greater lengths may be available on request.

2. ADDITIONAL PROCESSING OF SANDWICH PANELS

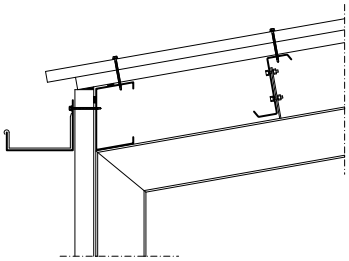
Saw cut and cutback on roofing panels

In some cases, it may necessary to remove some of the foam and the interior skin from the end of a roofing panel, i.e. when there is an overlap due to the roof slope exceeding the maximum length of the panel, or for drainage into the gutter. To meet the customer requirements, SAB-profiel can apply a saw cut to a roofing panel anywhere between 80 and 250 mm from the end of the panel. A cutback (foam and interior skin removed, max. 200 mm) can also be applied in the factory.

Transverse overlap on roofing panels



Gutter with cutback



Stacking of panels in a pack

The standard stacking of wall panels is A/A/A/A. This is for through fix and secret fix panels in PIR. Only the wall panels W 95 TL, W 100 SL en W120 SL and W 100 SL will be packed as A/B/A/B. The standard stacking of roofing panels in a pack is A/B/A/B, also for roofing panels with a clear overlap. An alternative for all roofing panels is to stack them A/A/A/A in a vacuum pad pack. For a total overview of the maximum number sandwich panels per type per pack please see the SAB website.

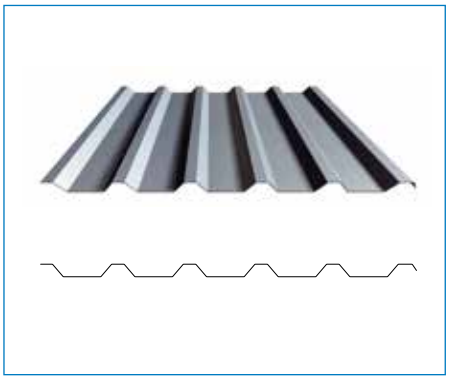
Please note: Fewer panels are contained in an A/A/A/A stack. When ordering, please indicate whether there is a different stack than default is desired.

Pack of A/B/A/B stacked D 75: 18 in a pack

Pack of A/A/A/A stacked D 75: 14 in a pack

Top plate

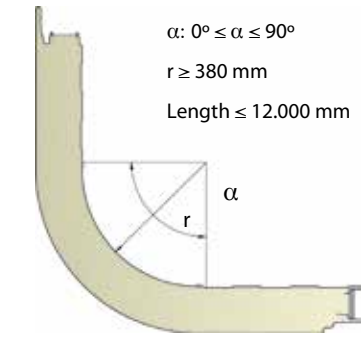
In addition, SAB-profiel can supply a top plate made of a single sheet of steel, which fits the upper surface of roofing panels D 75 to D 135 inclusive. This top plate can also be folded for use as a ridge piece for example.



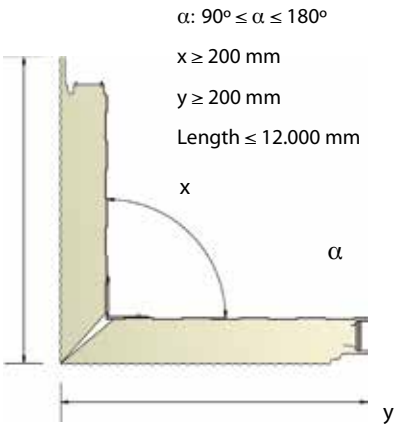
Bending and folding sandwich panels

Modifications can also be made to our wall panels for specific applications.
A number of popular options are listed below:

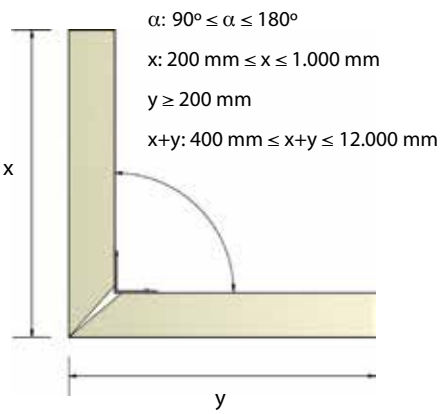
Curve of 90 degrees



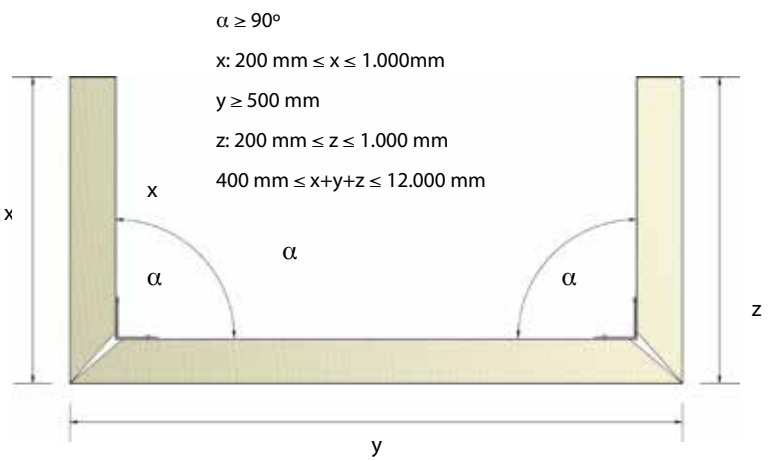
Angle of between 90 and 180 degrees



Angle of between 90 and 180 degrees perpendicular to the longitudinal axis of the panel



Two angles perpendicular to the longitudinal axis of the panel



3. PROFILED CLADDING AND STRUCTURAL LINER TRAYS

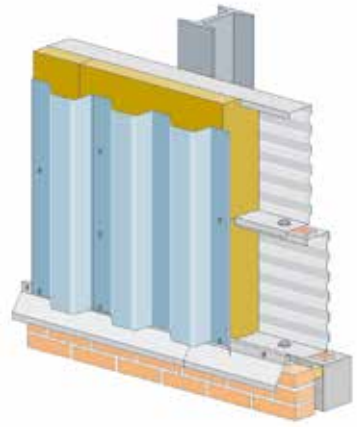
This chapter contains a list of our extensive range of profiled cladding, categorised according to their applications. When selecting profiled wall cladding, structural liner trays or roof cladding, please take load factor, safety factor and deflection requirements into consideration. For more information, please consult our Sales department.

Explanation icons:

S Steel	Fully perforated (P vol)	condensation-inhibbeting foil
ALU Aluminium	Web perforated broad (P L-B)	Sealing tape liner tray
RVS RVS	Web perforated narrow (P L-S)	
Folding	Pan perforated (P ZZ)	
Curving	Embossed	**A** —→ A side **B** —→ B side

3a. Profiled wall cladding

Built-up system with vertical wall cladding
Structural liner tray, (mineral wool /glass wool) insulation, wall cladding



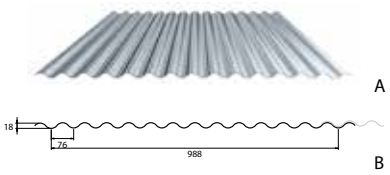
Built-up system with horizontal wall cladding
Structural liner tray, (mineral wool /glass wool) insulation, vertical omega-profile, wall cladding

Profiled cladding / Wall / Sinusoidal

The sinusoidal profiles are available in three designs in heights of 18, 27 and 42 mm. The large variety of colours and coatings makes the sinusoidal profile a popular choice for industrial constructions, offices and houses. It is often used horizontally, but vertical usage is also possible.

SAB 18/988 (2 overlaps)

S ALU RVS

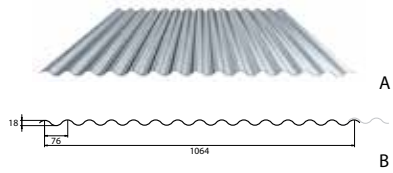


mm	kg/m²
0,63	6,26
0,75	7,45
0,88	8,74
1,00	9,93

Recommended maximum length: 12 m

SAB 18/1064 (1 overlap)

S ALU RVS

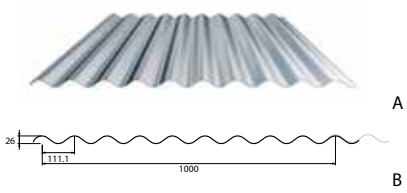


mm	kg/m²
0,63	5,81
0,75	6,92
0,88	8,12
1,00	9,22

Recommended maximum length: 12 m

SAB 27/1000

S ALU RVS

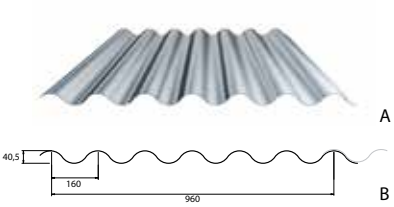


mm	kg/m²
0,63	6,18
0,75	7,36
0,88	8,64
1,00	9,81

Recommended maximum length: 12 m

SAB 42/960

S ALU RVS



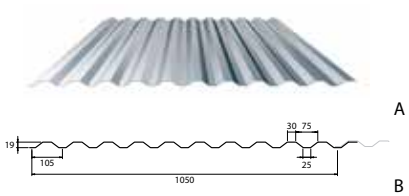
mm	kg/m²
0,75	7,67
0,88	8,99
1,00	10,22

Recommended maximum length: 12 m

Profiled cladding / Wall / Trapezoidal

SAB-profiel supplies various types of trapezoidal profile. From plain traditional, such as the 35 profile, to more modern variants such as the 19 or 45 profile. The number of options is even greater if you choose the B-side as the colour side.

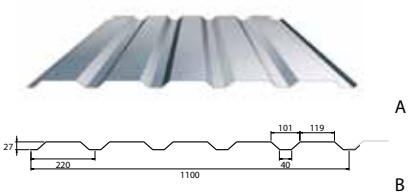
SAB 19/1050



mm	kg/m²
0,63	5,89
0,75	7,01
0,88	8,22
1,00	9,35

Recommended maximum length: 12 m

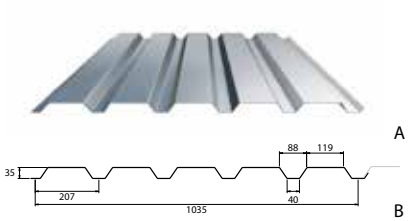
SAB 30/1100



mm	kg/m²
0,63	5,62
0,75	6,69
0,88	7,85
1,00	8,92

Recommended maximum length: 12 m

SAB 35/1035

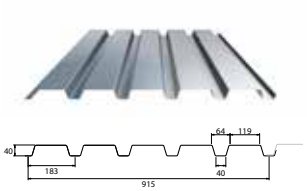


mm	kg/m²
0,63	5,97
0,75	7,11
0,88	8,34
1,00	9,48

Recommended maximum length: 12 m

Profiled cladding / Wall / Trapezoidal

SAB 40/915



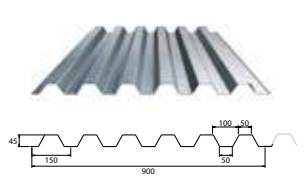
A

B

mm	kg/m²
0,63	6,76
0,75	8,04
0,88	9,44
1,00	10,72

Recommended maximum length: 12 m

SAB 45/900



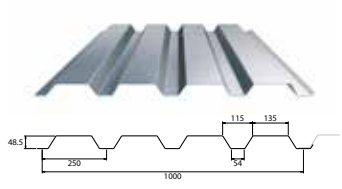
A

B

mm	kg/m²
0,63	6,87
0,75	8,18
0,88	9,59
1,00	10,90

Recommended maximum length: 12 m

SAB 50/1000



A

B

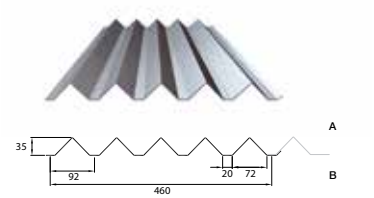
mm	kg/m²
0,63	6,18
0,75	7,36
0,88	8,64
1,00	9,81

Recommended maximum length: 12 m

Profiled cladding / Wall / Pyramid

The profiles of the SAB-Pyramid line are available as standard in heights of 19, 37 or 50 mm in many colours. All are available with continuous V grooves or with a flat piece in-between. There is also a V-profile, the SAB-Diamond®, with a double V of 40 and 19 mm high. There are therefore many profile possibilities for use in a façade with uncluttered V grooves and a beautiful play of lines.

SAB-Pyramid 37/460

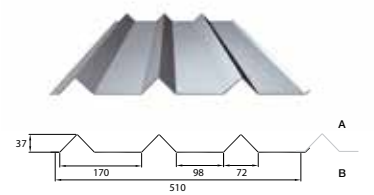


S ALU

mm	kg/m²
0,75	8,00
0,88	9,39

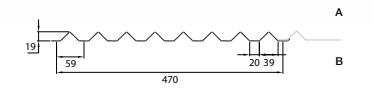
Recommended maximum length: 7 m

SAB-Pyramid 37/510

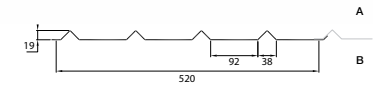


For more information and for the weights of other SAB Pyramid products, please see the website.

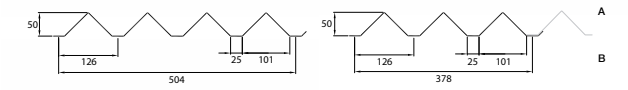
SAB-Pyramid 19/470



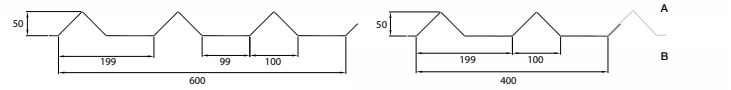
SAB-Pyramid 19/520



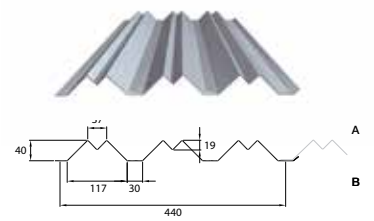
SAB-Pyramid 50/882 (504-378)



SAB-Pyramid 50/1000 (600-400)



SAB-Diamond® 40/440



S ALU

mm	kg/m²
0,75	8,36
0,88	9,81

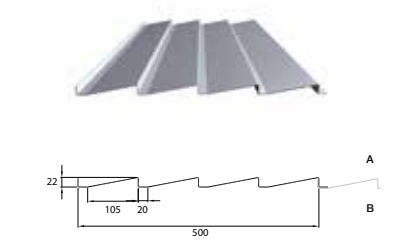
Recommended maximum length: 7 m

Alternative geometric profiles available on request. The range of possibilities include the adjacent profiles.

Profiled cladding / Wall / Special

In addition to the Pyramid profiles, more special aesthetic solutions are available from SAB. For example, SAB supplies a profile plate SAB-PD 22/500 (traditionally also called a rabat profile) and there is a successful combination of a panel and profile, the SAB-Pagode® 40/450. In addition, there is the SAB-Twin 33/1000 façade panel, which is quite different than the other products. That is because of the circular profilings in combination with the wide flat micro-lined parts. With that you create a sharp image that at the same time provides a serene aesthetic. Finally the FC aluminum façade system with its flat panels is unique because of its vario-system-mounting with individually interchangeable panels creating the maximum design freedom.

SAB-PD 22/500

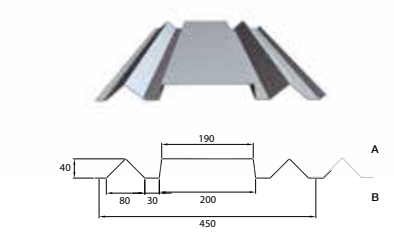


S ALU

mm	kg/m²
0,75	7,36
0,88	8,64

Recommended maximum length: 7 m

SAB-Pagode® 40/450

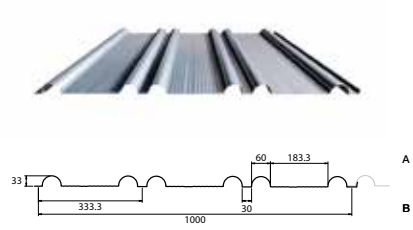


S ALU

mm	kg/m²
0,75	8,18
0,88	9,59

Recommended maximum length: 7 m

SAB-Twin 33/1000



S ALU

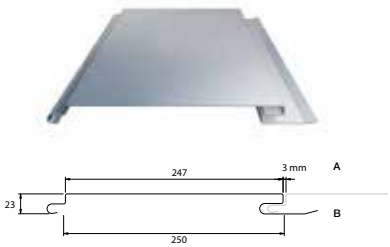
mm	kg/m²
0,75	7,36
0,88	8,64

Recommended maximum length: 12 m

Profiled cladding / Wall / Plank profiles

For a façade with modern tight lines, plank profiles are ideal. With the PO types, the mountings are concealed for an aesthetically beautiful end result. The PZ 40/300 has a visible joint in which the fixing is applied. The PO 23/250 and the PZ 40/300 can be supplied with a micro-rib profiling.

SAB-PO 23/250

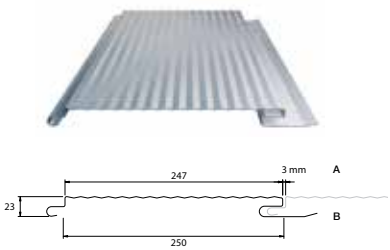


S

mm	kg/m²
0,75 (1)	9.81
0,88 (2)	11,51

Minimum length: 1 m
Recommended maximum length: 7 m

SAB-PO 23/250 micro

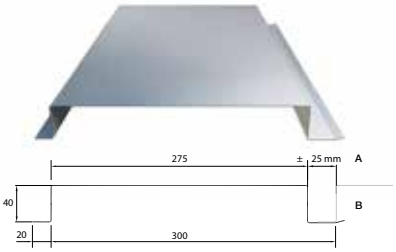


S

mm	kg/m²
0,88 (2)	11,51

Minimum length: 1 m
Recommended maximum length: 7 m

SAB-PZ 40/300

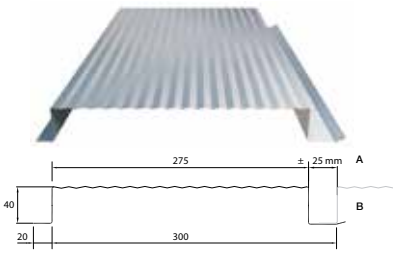


S

mm	kg/m²
0,75 (1)	8.18
0,88 (2)	9,59

Minimum length: 1 m
Recommended maximum length: 7 m

SAB-PZ 40/300 micro



S

mm	kg/m²
0,88 (2)	9,59

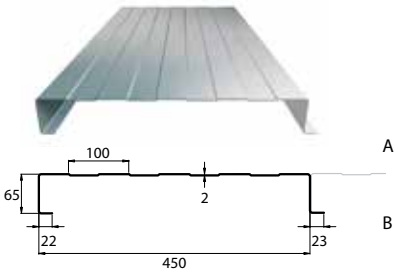
Minimum length: 1 m
Recommended maximum length: 7 m

(1) 0,75 mm only possible with Colorcoat HPS200 Ultra®
(2) 0,88 mm in limited colour range available, ask the sales department for more information.

Profiled cladding / Wall / Structural liner trays

Working with structural liner trays when constructing a building has many advantages. They offer a great deal of freedom when choosing and mounting exterior plating and are very fire-resistant if used with glass wool or rock wool insulation material. In this case, structural liner trays also strengthen the sound insulation where the option of perforation further improves the acoustic properties. Structural liner trays are supplied as standard galvanized or with an interior coating of 15 mu Colorcoat® PE 15 in the colour RAL 9002 (grey-white). Colour RAL 9010 (white) is possible at a surcharge. Other colours and/or pre-finished steel products are also available on request.

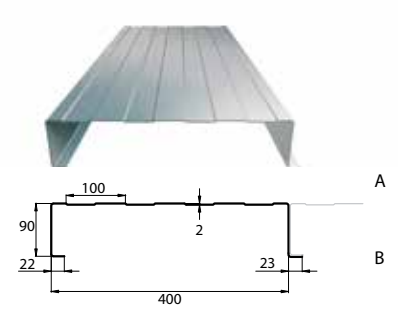
SAB B65/450



mm	kg/m²
0,75	8,18
0,88	9,59
1,00	10,90
1,13	12,32
1,25	13,63
1,50	16,35

Minimum length: 1,8 m / Maximum length: 18 m

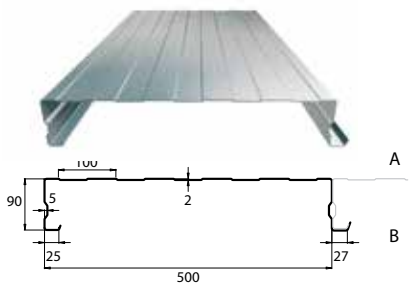
SAB B90/400



mm	kg/m²
0,75	9,20
0,88	10,79
1,00	12,27
1,13	13,86
1,25	15,33
1,50	18,40

Minimum length: 1,8 m / Maximum length: 18 m

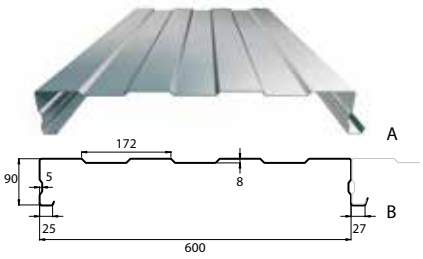
SAB B90/500



mm	kg/m²
0,75	8,83
0,88	10,36
1,00	11,78
1,13	13,31
1,25	14,72
1,50	17,66

Maximum length: 18 m

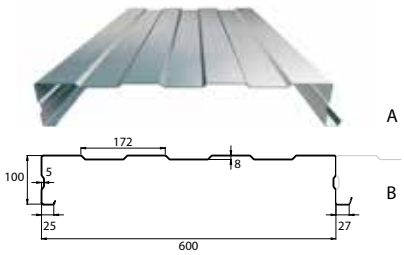
SAB B90/600



mm	kg/m²
0,75	8,48
0,88	9,95
1,00	11,30
1,13	12,77
1,25	14,13
1,50	16,96

Minimum length: 1,8 m / Maximum length: 18 m

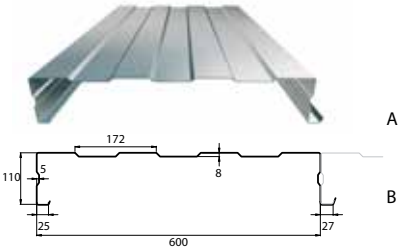
SAB B100/600



mm	kg/m²
0,75	8,67
0,88	10,18
1,00	11,57
1,13	13,07
1,25	14,46
1,50	17,35

Minimum length: 1,8 m / Maximum length: 18 m

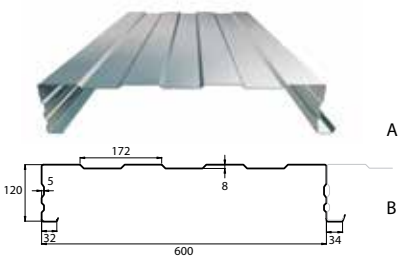
SAB B110/600



mm	kg/m²
0,75	8,87
0,88	10,41
1,00	11,83
1,13	13,36
1,25	14,78
1,50	17,74

Minimum length: 1,8 m / Maximum length: 18 m

SAB B120/600

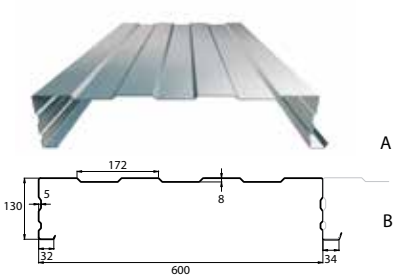


mm	kg/m²
0,75	9,22
0,88	10,82
1,00	12,30
1,13	13,90
1,25	15,37
1,50	18,45

Minimum length: 1,8 m / Maximum length: 18 m

Alternative dimensions are available on request.

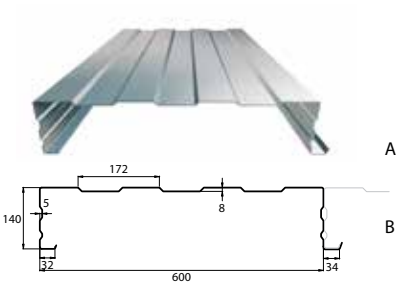
SAB B130/600



mm	kg/m²
0,75	9,42
0,88	11,05
1,00	12,56
1,13	14,19
1,25	15,70
1,50	18,84

Minimum length: 1,8 m / Maximum length: 18 m

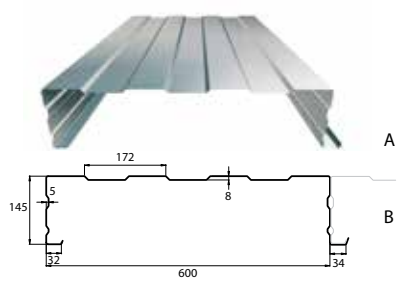
SAB B140/600



mm	kg/m²
0,75	9,71
0,88	11,40
1,00	12,95
1,13	14,64
1,25	16,19
1,50	19,43

Minimum length: 1,8 m / Maximum length: 18 m

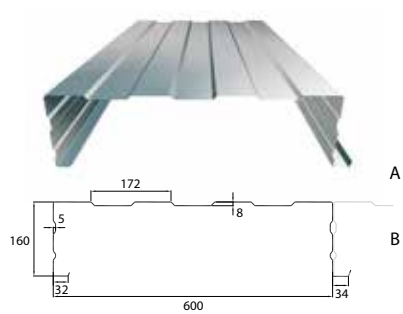
SAB B145/600



mm	kg/m²
0,75	9,71
0,88	11,40
1,00	12,95
1,13	14,64
1,25	16,19
1,50	19,43

Minimum length: 1,8 m / Maximum length: 18 m

SAB B160/600



mm	kg/m²
0,75	10,01
0,88	11,74
1,00	13,35
1,13	15,08
1,25	16,68
1,50	20,02

Minimum length: 1,8 m / Maximum length: 18 m

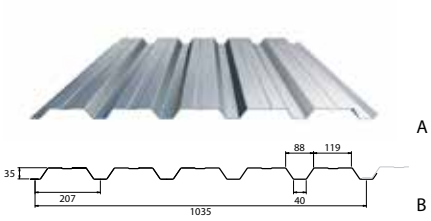
Alternative dimensions are available on request.

3b. Profiled roof cladding

Profiled cladding / Warm roof / Trapezoidal

The term 'warm roof' refers to the profiles used as supporting plates for insulated roofs. They are available in numerous designs (from the best known SAB 106R+/750 to the lesser known SAB 200R/750) and lengths, up to maximum 24,5 metres. Warm roof cladding is supplied as standard galvanized or with an interior coating of 15 µm Colorcoat® PE 15 in the colour RAL 9002 (grey-white). With this colour less lighting is needed so you save on your energy bill. Other colours and/or pre-finished steel products are also possible on request.

SAB 35R/1035

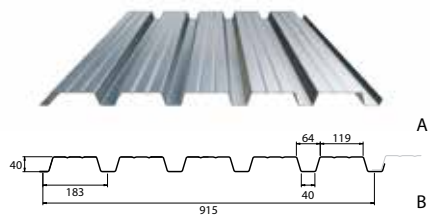


S ALU RVS

mm	kg/m²
0,75	7,11
0,88	8,34
1,00	9,48
1,13	10,71
1,25	11,85

Recommended maximum length: 12 m

SAB 40R/915

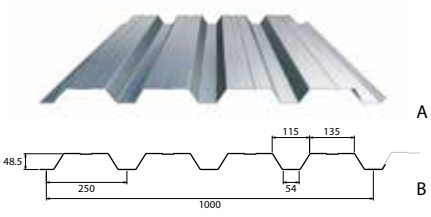


S

mm	kg/m²
0,75	8,04
0,88	9,44
1,00	10,72
1,13	12,12
1,25	13,41

Recommended maximum length: 12 m

SAB 50R/1000

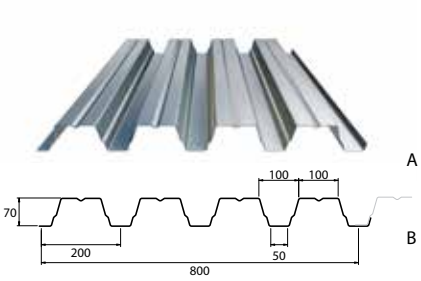


S

mm	kg/m²
0,75	7,36
0,88	8,64
1,00	9,81
1,13	11,09
1,25	12,27

Recommended maximum length: 12 m

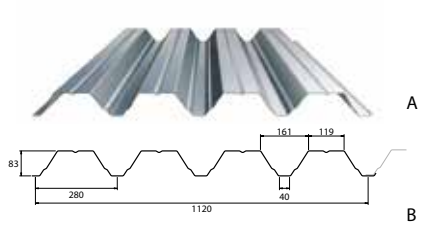
SAB 70R/800



mm	kg/m²
0,75	9,20
0,88	10,79
1,00	12,27
1,13	13,86
1,25	15,33

Maximum length: 24,5 m

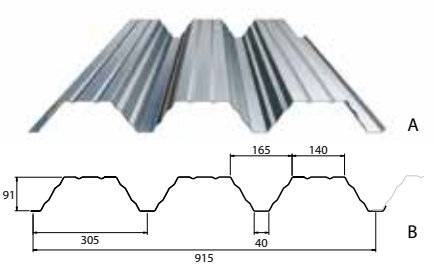
SAB 85R/1120



mm	kg/m²
0,75	7,89
0,88	9,25
1,00	10,51
1,13	11,88
1,25	13,14
1,50	15,77

Maximum length: 22 m

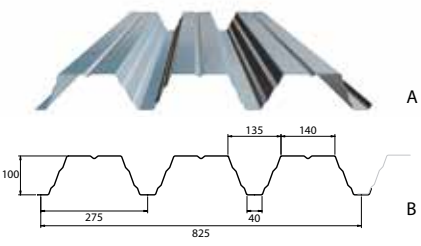
SAB 89R/915



mm	kg/m²
0,75	8,04
0,88	9,44
1,00	10,72
1,13	12,12
1,25	13,41

Maximum length: 21,9 m

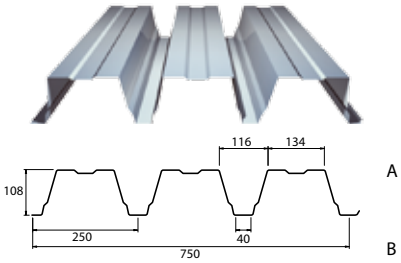
SAB 100R/825



mm	kg/m²
0,75	8,92
0,88	10,47
1,00	11,89
1,13	13,44
1,25	14,87

Maximum length: 21,9 m

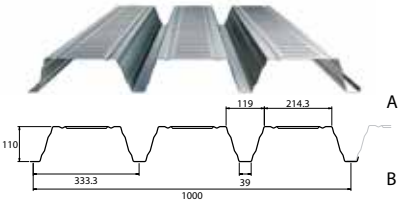
SAB 106R+/750



mm	kg/m²
0,75	9,81
0,88	11,51
1,00	13,08
1,13	14,78
1,25	16,35
1,50	19,63

Maximum length: 24,5 m

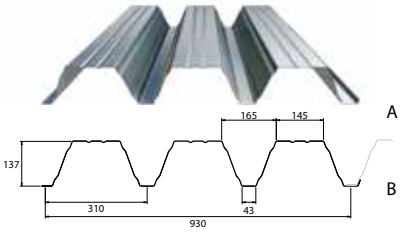
SAB 110R/1000



mm	kg/m²
0,75	8,83
0,88	10,36
1,00	11,78

Maximum length: 24,5 m

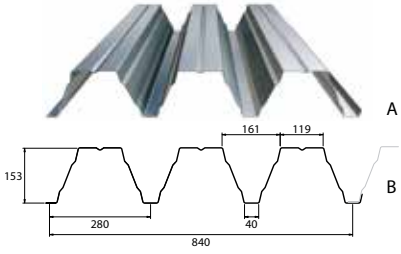
SAB 135R/930



mm	kg/m²
0,75	9,50
0,88	11,14
1,00	12,66
1,13	14,31
1,25	15,83
1,50	18,99

Maximum length: 22 m

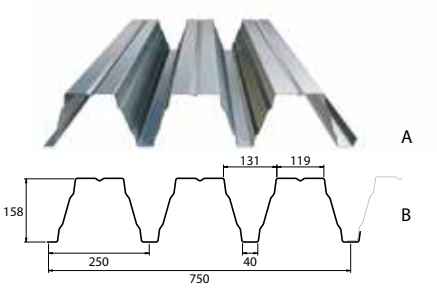
SAB 153R/840



mm	kg/m²
0,75	10,51
0,88	12,34
1,00	14,02
1,13	15,84
1,25	17,52
1,50	21,03

Maximum length: 24,5 m

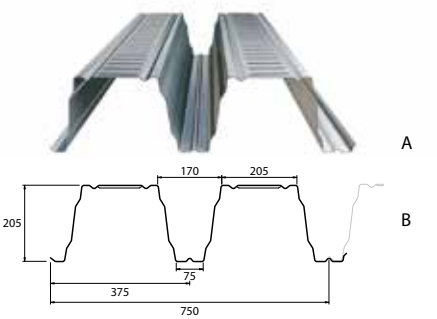
SAB 158R/750



mm	kg/m²
0,75	11,78
0,88	13,82
1,00	15,70
1,13	17,74
1,25	19,63
1,50	23,55

Maximum length: 24,5 m

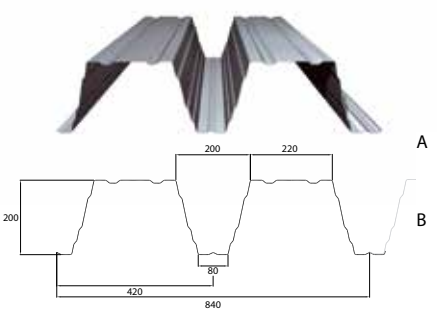
SAB 200R/750



mm	kg/m²
0,75	11,78
0,88	13,82
1,00	15,70
1,13	17,74
1,25	19,63
1,50	23,55

Maximum length: 24,5 m

SAB 200R/840



mm	kg/m²
0,75	10,51
0,88	12,34
1,00	14,02
1,13	15,84
1,25	17,52
1,50	21,03

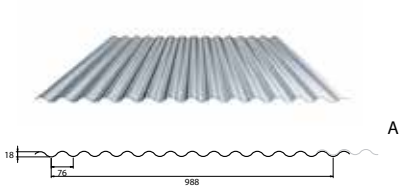
Maximum length: 24,8 m

Profiled cladding / Cold roof / Sinusoidal

If you are working on an application for which heat insulation is not required, then SAB-profiel also has the right cold roof cladding for you. They are designed to mount on inclined and round roofs.

When using in cold roof applications (sinusoidal and trapezoidal profiles), SAB-profiel recommends the following:
- A roof pitch of at least 10 degrees.
- A coating system with a nominal thickness of at least 35 µm.

SAB 18/988

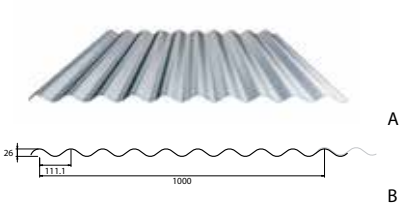


S ALU RVS

mm	kg/m²
0,63	6,26
0,75	7,45
0,88	8,74
1,00	9,93

Recommended maximum length: 12 m

SAB 27/1000

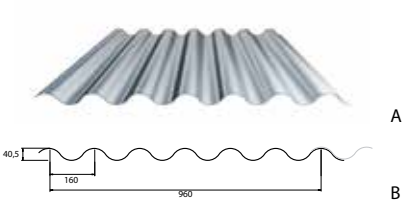


S ALU RVS

mm	kg/m²
0,63	6,18
0,75	7,36
0,88	8,46
1,00	9,81

Recommended maximum length: 12 m

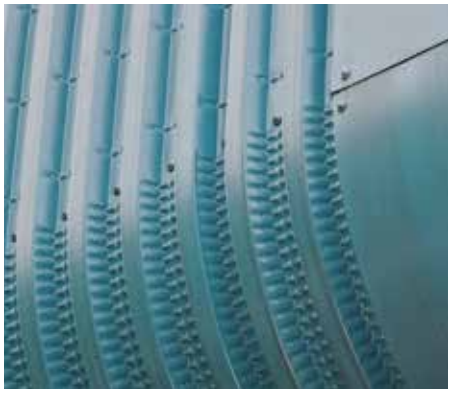
SAB 42/960



S ALU RVS

mm	kg/m²
0,75	7,67
0,88	8,99
1,00	10,22

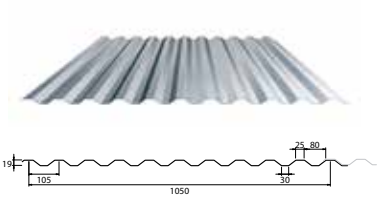
Recommended maximum length: 12 m



Profiled cladding / Cold roof / Trapezoidal

The trapezoidal cold roof cladding often has wide valleys for the rapid and easy runoff of water. Because cold roof cladding is usually applied singularly without insulation, it is fitted on the inside with an anti-condensation membrane to prevent the dripping down of condensation (see page 37).

SAB 19KD/1050



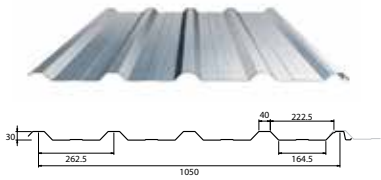
A

B

mm	kg/m²
0,63	5,89
0,75	7,01
0,88	8,22
1,00	9,35

Recommended maximum length: 12 m

SAB 30KD/1050-S



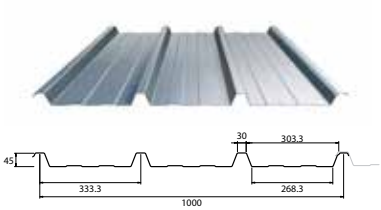
A

B

mm	kg/m²
0,63	5,89
0,75	7,01
0,88	8,22
1,00	9,35

Recommended maximum length: 12 m

SAB 45KD/1000



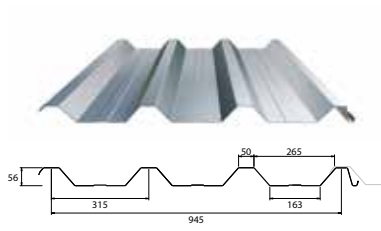
A

B

mm	kg/m²
0,63	6,18
0,75	7,36
0,88	8,64
1,00	9,81

Recommended maximum length: 12 m

SAB 58KD/945-S



A

B

mm	kg/m²
0,63	6,54
0,75	7,79
0,88	9,14
1,00	10,38

Maximum length: 15 m


HOLLANDIA

4. ADDITIONAL PROCESSING OF PROFILED CLADDING

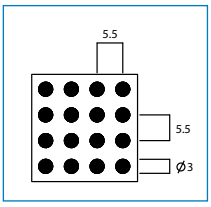
Additional processing of profiled cladding / Perforating

Perforating

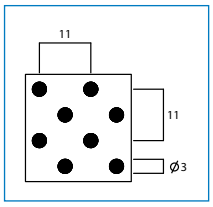
In the event that a building is subject to additional acoustic requirements, a perforated pattern can be applied to the profiled roof & wall cladding and structural liner trays. You may, of course, also opt for perforation purely on the basis of its aesthetic properties. Should you opt for perforation, however, please bear in mind that this alters the permissible load and the deflection of the materials. SAB-profiel will emboss most of the perforated profiles to remove the perforation stress from the material.

Degree of perforation

SAB-profiel supplies two standard perforated patterns: Perfo 3 and Perfo 4 (which have open areas of perforation of 23,4% and 11,7% respectively). In the case of substantial quantities, however, SAB-profiel can apply virtually any perforated pattern you may require.



Perfo 3

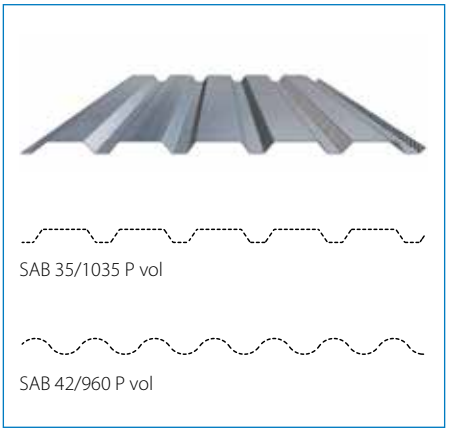


Perfo 4

Additional processing of profiled cladding / Perforating / Wall

Profiled wall cladding

Sinusoidal	P3 vol	P3 vol
SAB 18/988	o	o
SAB 27/1000	o	o
SAB 42/960	o	o
Trapezoidal	**P3 vol**	**P3 vol**
SAB 19/1050	o	o
SAB 30/1100	o	o
SAB 35/1035	o	o
SAB 40/915	o	o
SAB 45/900	o	o
SAB 50/1000	o	o
Special	**Web perforated**	
SAB-Pyramid series	o	
SAB-Diamond® 40/440	o	



SAB 35/1035 P vol

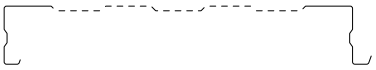
SAB 42/960 P vol

Additional processing of profiled cladding / Perforating / Structural liner trays

Structural liner trays

	P3 vol	P4 vol	P3 ZZ	P4 ZZ
SAB B90/400	o	o		
SAB B65/450	o	o		
Remaining liner trays			o	o

SAB B90/500 P ZZ



SAB B100/600 P ZZ

Additional processing of profiled cladding / Perforating / Roof

Warm roof ladding

	P3 vol	P4 vol	P3 L-B	P3 L-S	P4 L-B
SAB 35R/1035	o	o			
SAB 40R/915	o	o			
SAB 50R/1000	o	o			
SAB 70R/800			o		o
SAB 85R/1120			o		o
SAB 89R/915			o		o
SAB 100R/825			o		o
SAB 106R+/750			o		o
SAB 110R/1000			o		o
SAB 135R/930				o	o
SAB 153R/840				o	o
SAB 158R/750				o	o
SAB 200R/750				o	o
SAB 200R/840				o	o

SAB 106R+/750 P L-B

SAB 158R/750 P L-S

Due to stress in the pan, SAB-profiel advises to order perforated pattern L-B to the profiled cladding types SAB 110R/1000 to SAB 200R/840 inclusive with a minimum thicknesses of 0.88 mm.

In view of the fixings and mechanical properties, SAB-profiel recommends only web perforated sheeting to be applied to the warm roof cladding. In terms of acoustic characteristics, there is little difference between this and full perforation.

Other perforation patterns are available on request.

Additional processing of profiled cladding / Crimp and smooth curving

In the case of minor differences in the height of the supports (less than 1/350 of the span) it is acceptable to allow the panels to self-curve.

Should the height difference between the girders exceed 1/350 of the span, then we can neither guarantee that the longitudinal joints fit tightly nor that the cladding will remain stress-free. In such cases, it is advisable to have SAB-profiel factory curve the cladding sheets (bending the panel along its strongest axis).

Crimp

Crimping entails bending a panel at a certain point to create an angle. Each crimp creates an angle of between 1 and 5 degrees. The spacing between the crimps must be at least 32 mm. The panel has to remain straight for at least 150 mm on either end before the first crimp.

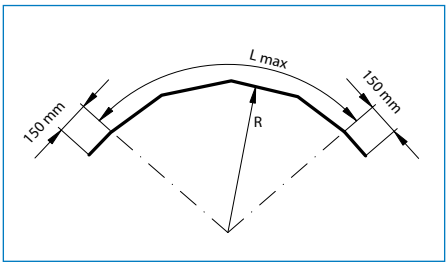
Please note:

In the event that transverse and/or longitudinal overlaps are applied on a roof, a seal should always be fitted.

Profiled cladding

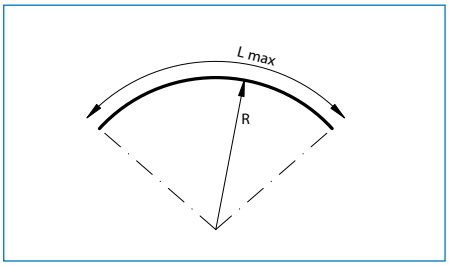
Sinusoidal	R_{min} (mm)	L_{max} (mm)
SAB 42/960	1.000	6.000
Trapezoidal		
SAB 19/1050	350	6.000
SAB 35/1035	350	6.000
SAB 40/915	450	6.000
SAB 45/900	450	6.000
SAB 50/1000	350	6.000
Cold roof		
SAB 19KD/1050	350	6.000
SAB 30KD/1050	350	6.000
SAB 45KD/1000	350	6.000
SAB 58KD/945	350	6.000
Sandwich roof top plate	350	3.000
Warm roof		
SAB 106R+/750	1.500	6.000

Other possibilities are available on request.



Smooth curving

Smooth curving entails rolling the sheet into a continuous curve. Smooth curving can only be applied along the entire length of a sheet.



The following table indicates the minimum radius (R) in metres

Profile	Material	Thickness	Sheet length (L) in metres									
		mm	1,5	2	3	4	5	6	7	8	9	10
Sinusoidal												
SAB 18/988	steel	0,63	2,0	2,0	2,0	2,5	3,2	4,5	-	-	-	-
		0,70	2,0	2,0	2,0	2,5	3,2	4,5	-	-	-	-
		0,75	2,0	2,0	2,0	2,5	3,2	4,5	-	-	-	-
		0,88	2,0	2,0	2,0	2,5	3,2	4,5	-	-	-	-
		1,00	2,0	2,0	2,0	2,5	3,2	4,5	-	-	-	-
SAB 27/1000	steel	0,75	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,5	7,5	-
		0,88	4,0	4,0	4,0	4,0	4,0	4,5	5,5	6,5	7,5	-
		1,00	4,0	4,0	4,0	4,0	4,0	4,5	5,5	6,5	7,5	-

Additional processing of profiled cladding / Anti-condensation foil

Cold roof cladding (but also façade cladding and warm roof cladding) can be fitted on the inside with an anti-condensation foil to prevent condensation dripping down. Anti-condensation foil is especially intended for inside use. It is not suitable for use in humid rooms or in rooms with a permanently high humidity, where there is no ventilation and/or where the absorption surface cannot dry. Anti-condensation foil is also suitable for canopies exposed to (reduced) humidity. The light-grey anti-condensation membrane comprises fibres that clasp together, but which provide sufficient space to absorb condensation. When the temperature rises and there is ventilation, the moisture absorbed is released to the air. Apart from the good moisture-absorbing properties, the membrane also offers extra sound absorption. For headed overlap and ends above the drain (over a width of 200 mm), it is important that profile plates with anti-condensation foil on the building are finished with an air drier. The heating causes the membrane to deform, which prevents the sucking in of water from outside.
If you would like to know more about the anti-condensation foil and for which profiles this is possible, then you can download a special brochure from the SAB website.

Additional processing of profiled cladding / Protective film

Protective film protects the surface from damage. The film can be applied to all pre-finished steel and aluminium, and is applied as standard to stainless steel and the exterior skin of sandwich panels. SAB-profiel firmly recommends the application of protective film to all smooth products, such as polyester and PVDF, to reduce damage during transportation and installation. This film needs to be removed either immediately prior to or following the installation. Contact us for advice on the optimum film for particular paint types and applications.

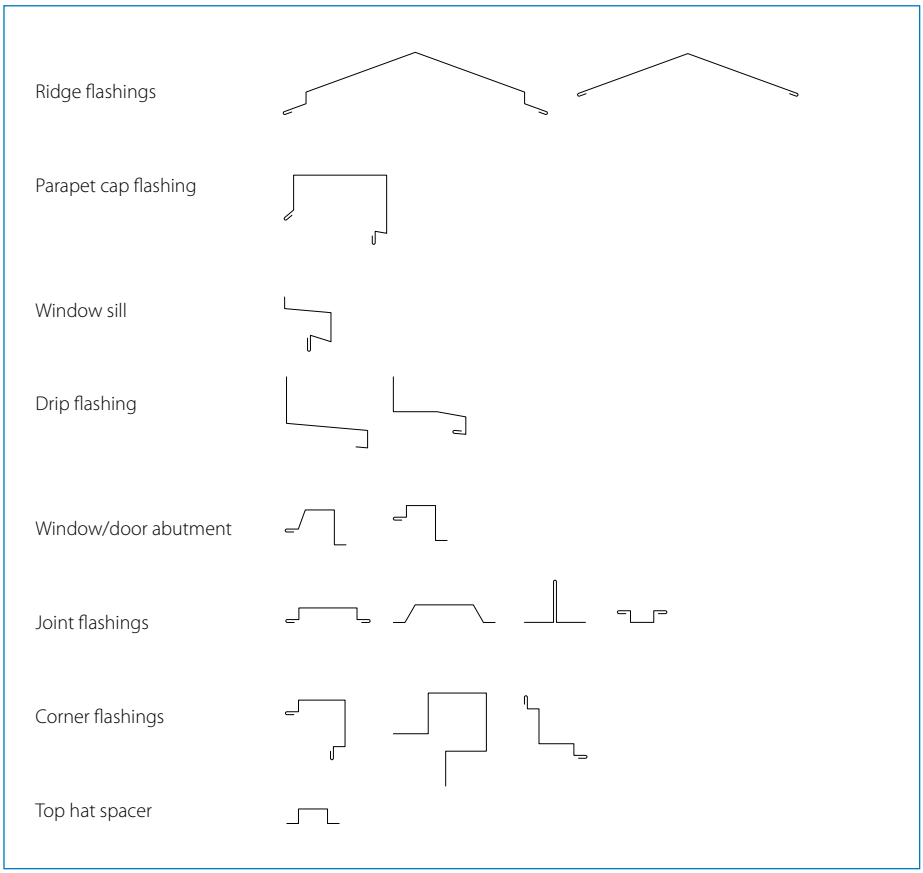
5. FLASHINGS & FLAT SHEET

Flashings really provide the finishing touch to your projects. So it is good to know that SAB-profiel has its own fabrication shop, which has access to the same stock of materials that we use for all our other products, in a vast range of thicknesses, coatings and colours. Flashings are normally available in lengths of up to 6 metres, with a maximum width of 1.000 mm and maximum sheet thickness of 2 mm. Flashing longer than 6 meters or width above 1.000 mm on request. With a view to facilitating transportation and installation, it is advisable not to exceed lengths of 6 metres for flashings in thin gauge material (0,63 and 0,75 mm). The use of butt straps enables you to create neat joints.

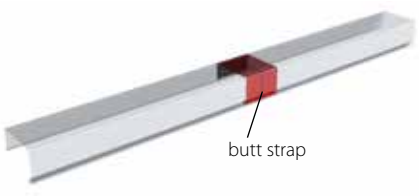
We can even supply the butt straps on request. Flashings with a coating are supplied with a transparent protective film. Although you can specify the shape and dimensions of the particular flashings you require a list of popular shapes is given below.

Flat sheet

SAB-profiel has its own machinery for the production of flat sheet, and can therefore utilise the same wide range of materials we use for all our products. SAB-profiel can supply flat sheet in lengths from 2 to 6 metres. The standard widths available are 1.240 and 1.500 mm.



Parapet cap flashing with butt strap



6. MATERIALS & COLORCOAT®

Materials

Our products are available in galvanized steel, stainless steel or aluminium, either with or without a coating.

Galvanized steel

The basis for all types of pre-finished steel is the steel substrate and metallic coating. As the basic material, SAB-profiel uses continuously galvanized steel, MagiZinc®, Aluzink and Zinc-Aluminium (Galvalloy™). The steel varieties can be supplied in qualities S280GD and S320GD. Depending on the quality selected, the zinc layer varies between 70 and 275 gr/m^2. SAB-profiel supplies these materials in accordance with NEN-EN standards 10143 and 10346.

Please note:
Uncoated galvanized material (or with an interior coating only) is not suitable for exterior applications, with exception of Aluzink 185 gr/m^2!

Stainless steel

Stainless steel is available as standard in the thicknesses 0.70 and 0.80 mm in the quality 14301. This quality is solely available with a 2B-finish. Protective film is applied to both sides of the material. Just a limited number of profile sheet products are made in stainless steel (see the S icon for these products). The stainless steel complies with the EN 10088-2 standards. Other thicknesses and alloys may be supplied on request.

Aluminium

Aluminium is available in 0.80 mm standard thickness and is supplied in the form of EN AW-3105 alloy (AlMn 0.5 Mg 0.5). Aluminium will be supplied with a polyester coating in the colour RAL 9006 (see our coatings). The aluminium complies in accordance with the applicable European EN 485 standard. Other coatings, colours and thicknesses may be supplied on request.

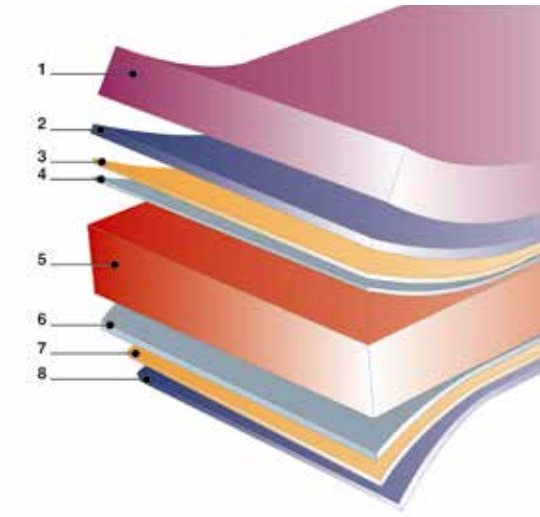
Colorcoat®

SAB-profiel can supply most products in a wide range of pre-finished steel. The finishes are applied under factory controlled conditions. The Colorcoat® brand stands for recognised quality and expertise in the field of architectural pre-finished steel, exclusively from Tata Steel. Continuing to build on more than 50 years of experience in the development of innovative products and the use of strict test procedures and outstanding production methods, Colorcoat® offers an extensive range of pre-finished steel products. These products come with a comprehensive package of services, including the Confidex® Guarantee with a duration of up to 40 years, plus colour matching, advice and guidance from experts in the field of architectural steel cladding design.

SAB-profiel supplies pre-finished steel that complies with the applicable European standard NEN-EN 10169. All the pre-finished steel products outlined below are available in a range of different colours. For full details refer to our colour charts and our website www.sabprofiel.com.

Colorcoat® PE 15

Colorcoat® PE 15 (also known as KID or DU) is polyester-based, and is supplied with a nominal organic coating thickness of 15 microns.

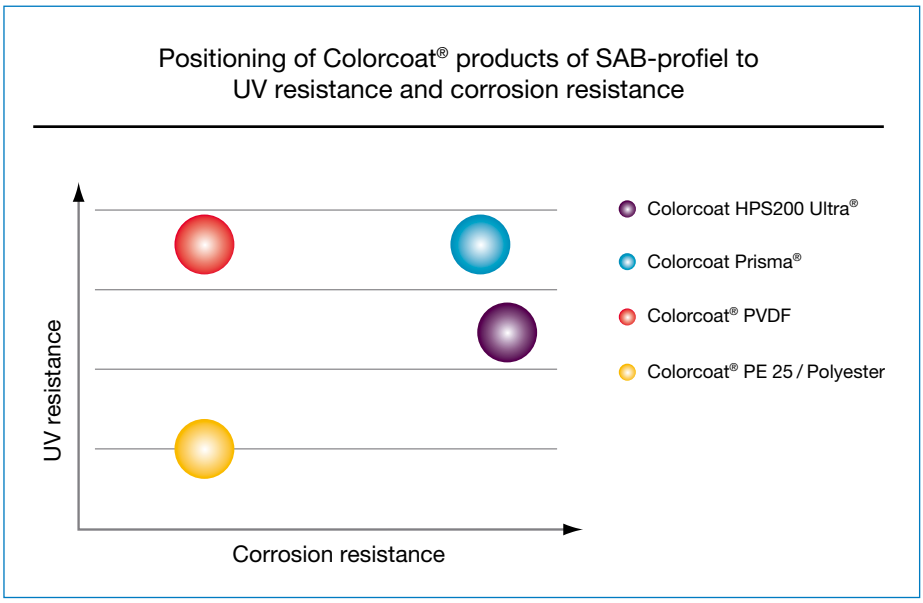


1 Topcoat
2 Corrosion resistant primer
3 Pre-treatment
4 Eutectic alloy
5 Steel
6 Eutectic alloy
7 Pre-treatment
8 Backing coat

The colour is comparable to RAL 9002 or 9010. A light-coloured backing coat of approx 10 µm thick is applied to the opposite side. In view of the limited layer thickness involved, SAB-profiel cannot guarantee that individual coils will all be exactly the same colour. Interior coating is almost solely used for indoor applications, such as the interior of sandwich panels, on the facing side of structural liner trays and on profiled roof cladding. Interior coating is not suitable for external use, due to weathering and corrosion which can affect it within a very short period of time.

Colorcoat® PE 25

Colorcoat® PE 25 is a smooth pre-finished steel product, which is solely intended for use in non-corrosive environments. SAB-profiel supplies this product on a cladding system which has a nominal organic coating thickness of 25 µm. A light coloured backing coat approx 10 µm thick is always applied to the opposite side. Guarantees are limited and only for application as façade. Colorcoat® PE 25 is available in 18 solid colours and 2 metallic colours as standards.



Colorcoat® PVDF

Colorcoat® PVDF is a pre-finished steel consisting of polyvinyl difluoride and other binding agents, also intended for use in non-corrosive environments. The properties of this sort of product can be largely attributed to the quantity of polyvinyl difluoride it contains. To ensure that it maintains an attractive appearance, the PVDF product supplied by SAB-profiel offer sufficient elasticity and mechanical strength, while remaining suitably resistant to solvents, chemicals and UV radiation. This product is often chosen for facades where colour fastness is important. Colorcoat® PVDF is supplied with a nominal organic coating thickness of 25 µm as standard, while a light coloured backing coat (approx 10 µm thick) is applied to the opposite side. Colorcoat® PVDF guarantees are limited and granted only for wall cladding applications. Colorcoat® PVDF is available in 5 solid colours and 2 metallic colours.

Colorcoat® SDP 35 for a durable protection

Colorcoat® SDP 35 is a pre-finished steel product with a nominal organic coating thickness of 35 microns. The most important benefits are the better corrosion resistance, robustness and colourfastness. Colorcoat® SDP 35 is suitable for situations in which standard 25 µm coating based products are not sufficient, such as cold roof profiles, roof panels or as wall cladding in coast areas. For external roof cladding, SAB-profiel recommends the use of pre-finished steel systems with a minimum nominal organic coating thickness of 35 µm as this provides greater abrasion and damage resistance that could lead to corrosion. Guarantees of up to

10 years are available on request depending on location climate and application.

Colorcoat Prisma® high-performance pre-finished steel with aesthetic appeal

Three layer Colorcoat Prisma® is an optimised pre-finished steel product that pushes the boundaries of UV and corrosion performance. Its revolutionary clear coat technology, in-built corrosion resistance and outstanding UV protection offers superior colour performance, enhanced aesthetics, and long term durability for building envelope applications. Colorcoat Prisma® offers a superior lifespan thanks to the Galvalloy™ metallic substrate (95% zinc and 5% aluminium). Colorcoat Prisma® has the exclusive Confidex® Guarantee for up to 40 years, including factory cut edges. Colorcoat Prisma® is available as standard in 10 metallic colours, 10 solid colours, 5 Element colours and 4 Matt colours. Other colours are available starting from approx. 5,000 m^2 or in consultation with our sales division. For further information and for full details of the standard colours see the special Colorcoat Prisma® colour brochure, which is available on request.

Colorcoat HPS200 Ultra® the superdurable pre-finished steel with a 40 year Confidex® Guarantee

Colorcoat HPS200 Ultra®, a pre-finished steel product with a nominal organic coating thickness of 200 µm coating is the most superdurable pre-finished steel product from Tata Steel and offers unrivalled performance. Colorcoat HPS200 Ultra® is produced as standard with a unique Scintilla® emboss on the facing side, while a durable backing coat is applied to the reverse face. Depending on the size of the order, a smooth top side is also possible. The metallic coating is Galvaloy™ (95% zinc and 5% aluminium). This provides the additional protection that make the exclusive and extensive Confidex® Guarantee duration of up to 40 years possible, including factory cut edges. Confidex® is for the weatherside of industrial and commercial buildings and does not require inspection or maintenance to maintain its validity. Colorcoat HPS200 Ultra® is ideal for outdoor applications in marine and industrial environments, and comes in 35 standard solid colours and 5 Matt colours. Colorcoat HPS200 Ultra® is also available in many solid colours via the Repertoire® colour consultancy, starting from approx. 2.500 m^2 or in consultation with our sales division. For further information and for full details of the standard colours see the special Colorcoat HPS200 Ultra® colour brochure, which is available on request.

Advantica® L Control

Advantica® L Control is a smooth, hard laminated PVC with a layer thickness of 150 µm on one side and is available in the colour RAL 9010. The reverse side is finished off with a light coloured primer coating. Advantica® L Control has been specially developed for use in the controlled environments sector, such as production facilities for foodstuffs, processing areas for meat and fish and cold storage of fruit and vegetables. This product is not suitable for outdoor applications. Other foodsafe options are available on request.

Colorfarm® more than just for agricultural buildings

Colorfarm® is a pre-finished steel which provides excellent corrosion resistance and a specific resistance against ammonium and agricultural chemicals. A special application area of Colorfarm® is the cladding of buildings in which animals are held or in which biomass is processed. Colorfarm® has a nominal organic coating thickness of 35 microns whilst the unexposed side is supplied with a backing coat that is also used with Colorcoat HPS200 Ultra® and Colorcoat Prisma®. Colorfarm® is ideal for use in sandwich panels inside farm buildings particularly those with high levels of ammonia. A 15 year internal functional performance statement can be requested. SAB-profiel offers Colorfarm® in the most popular colour, Chalk White (RAL 9002), that contributes to a bright interior. On request (> 2.500 m^2) Seven other colours (Goosewing Grey, Reseda Green (RAL 6011), Juniper Green, Light Ivory (RAL 1015), Slate Grey (RAL 220 3005), Slate Blue (RAL 5008), Millstone Brown) are available on request from 2.500 m^2.

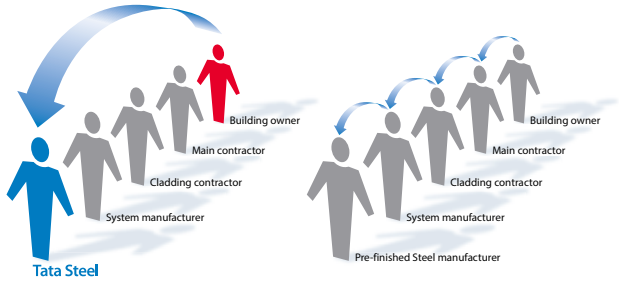
Other coatings

On request and depending on order size, practically all profiles and panels can be produced with other coatings and laminates.

Avoiding colour discrepancies

Extra attention should be given to the so-called metallic versions (such as RAL 9006 and 9007) as aluminium particles give a special gloss and colour effect that differs per production batch. When using these coatings, SAB-profiel recommend that you clearly specify the various wall sections in your order (preferably accompanied by a floor plan) so that these can be made from one and the

With Confidex® registration **Without Confidex® registration**



same production batch. Most metallics also have an arrow marking on the reverse side or on the protective film of the metallic coating. When using sandwich panels with metallic coatings on one wall section, SAB-profiel advises against using panels of different widths, given that different widths are always made from different production batches, meaning that tint discrepancies are then unavoidable. SAB-profiel accepts no liability whatever for colour discrepancies between SAB-profiel products mutually or between SAB-profiel products and products obtained elsewhere. This applies to all colours and to all pre-finished steel products. SAB-profiel recommends that Colorcoat® PE 25 and Colorcoat® PVDF should always be ordered with protective film.

Cleaning and maintenance

Cleaning is desirable or necessary as the case may be, with a view to:

- Retaining the aesthetic quality
- Retaining and extending the durability

The recommendation is that cleaning should be carried out a minimum of 1 to 3 times a year (for Colorcoat HPS200 Ultra® and Colorcoat Prisma® this is not mandatory for the purpose of retaining the guarantee). For the methods to be used for maintenance please refer to www.colorcoat-online.com.

Characteristics	Colorcoat HPS200 Ultra®	Colorcoat Prisma®	Colorcoat® SDP 35	Colorcoat® PVDF	Colorcoat® PE 25 / Polyester	Colorcoat® PE 15 / Interiorcoating
Nominal total dry film thickness in µm	200	65 [5,6] 40 [7]	35	25	25	15
Gloss (60°)	20 - 40% < 10% [5]	25 - 35% [6] 30 - 40% [7] < 10% [5]	20 - 40%	15 - 40%	30 - 50%	30 - 50%
Flexibility T-Bend test without cracking	0T	0,5T	1,5T	2T	3T	5T
Corrosion resistance[1]	RC5	RC5	RC4	RC3	RC3	CPI 2
Max. continuous operating temp.	60°C	90°C	90°C	100°C	90°C	90°C
Pencil hardness[1]	4	3	3	2	2	1
UV-resistance[1]	Ruv4	Ruv4	Ruv4	Ruv4	Ruv3	Ruv1
Chemical resistance[1] anorganic/organic[2]	3/4	4/4	3/3	3/4	2/3	2/2
MMax. guarantee period wall (years)[3]	40	40 [4]	15	12	10	-
Max. guarantee period roof (years)[3]	40[4]	35 [4]	15	☎	☎	-

[1] 4 = excellent, 3 = good, 2 = sufficient, 1 = acceptable
[2] Can strongly deviate for specific chemicals.
[3] Maximum guarantee period is for inland. Coast area on request, depending on coating type.
[4] Maximum guarantee period depends on colour group.
[5] Matt colours.
[6] Solid, Metallic and Matt colours.
[7] Elements colours.

7. ACCESSOIRES & SERVICES

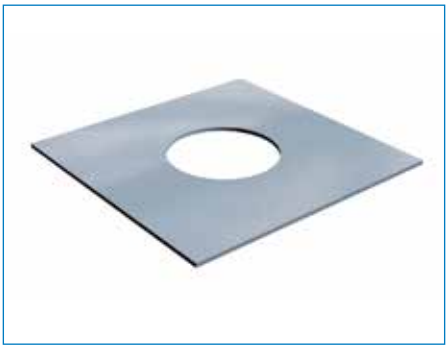
Translucent cladding and panels

For many of our profiles there are translucent cladding in a range of qualities polyester, PVC or polycarbonate. When installing these products it is important to ensure a minimum pitch of 10 degrees and a watertight seal at the overlaps. Contact our sales department for more information.

Also for our sandwich roofing panels SAB D 75 to D 135 there are matching double-walled panels in polyester, PVC or polycarbonate.

Roof duct panel

A duct panel is a flat steel plate with a thickness of 1,50 mm, measuring approx. 600 x 600 mm with a hole of maximum 300 mm diameter.



Fall protection systems

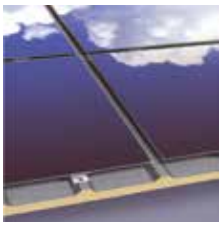
Special anchors have been developed for the roof products of SAB-profiel. These anchors are part of a cable-supported fall arrest system, which offers continuous protection for people working at heights. The system has been tested and approved for the processing of both warm and cold roof profiled cladding and sandwich roofing panels. Contact our sales department for further information.

Fasteners

Fasteners are the mechanical links between the parts of the façade and roof construction and the supporting construction, or between these parts of the constructions themselves. There are two types of links: Primary fixings and secondary fixings . The most important types of attachments are self-tapping screws (for steel plates on the construction or brick work) and drive screws (between steel plates, sandwich panels and build-up system). Ask our sales department for more information.

PV panels

A solar panel or a PV panel (photovoltaic) is a panel that solar energy convert into electricity. Electricity from sunlight is durable, because in the production of electricity there is no release of gas and harmful substances. Contact our sales department for further information.

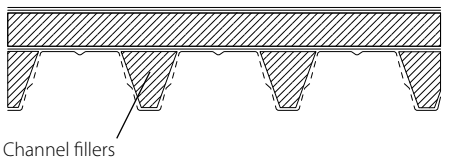


Fillers

There are several fillers in the market. Contact our sales department for further information.

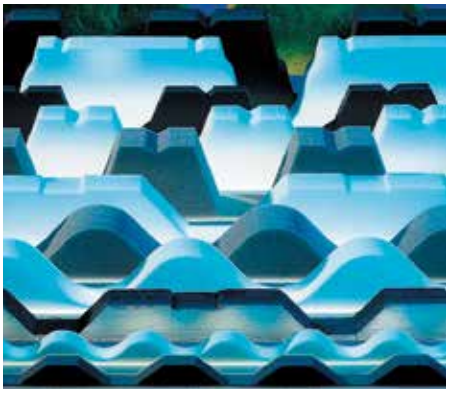
Channel fillers

Channel fillers are used for channels of perforated warm roof cladding to improve sound absorption and airborne sound insulation.



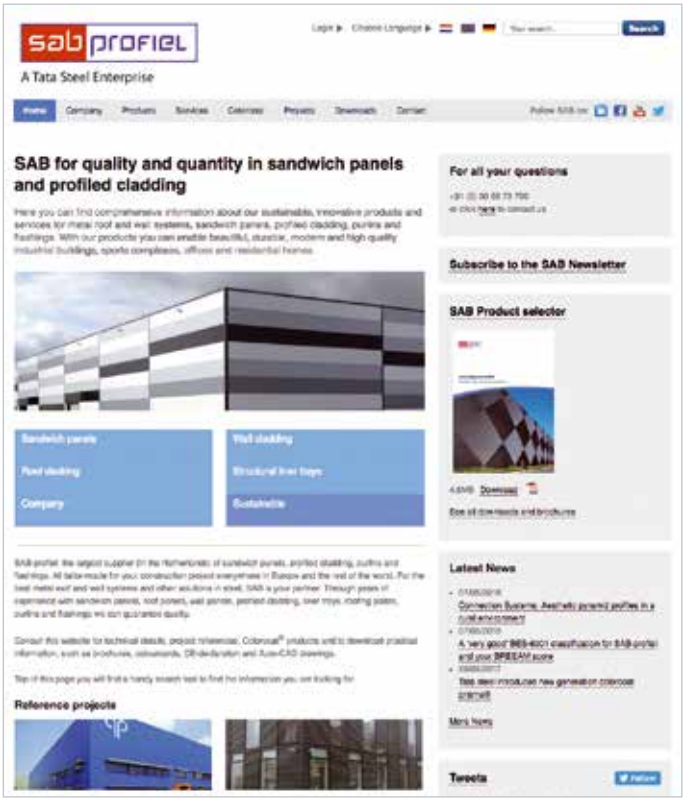
Profile fillers

Profile fillers are used to seal off channels of profiled cladding on ridge pieces and gutters and where profiled wall cladding connects with flashings.



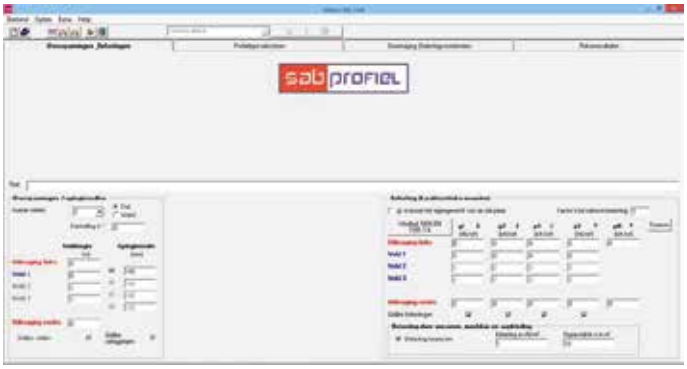
Website

For the latest information,
please check www.sabprofiel.com or
www.tatasteelconstruction.com.



Calculation programs online

For some applications SAB-profiel has
developed own calculation programs.
Ask your own login through the contact
page on the website www.sabprofiel.com.



Source: Viavac vacuum lifting B.V.- Lopik (NL)

Devices to assemble

The use of cranes and vacuum lifting devices is recommended when assembling sandwich panels, profiles roof and wall cladding. There are several suppliers who have such equipment for hire and for sale. Contact our sales department for further information.

www.sabprofiel.com

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