



A Tata Steel Enterprise

Product Overview

Metal roof and facade systems



The new sandwich panel production facility in Geldermalsen alongside the A15 motorway. The building is visible from far away. You can find all of the products we make here in the new experience room. Please feel welcome to drop in for a cup of coffee.



A fresh start in a new factory

2019, a year marked by our new panel production facility in Geldermalsen. Creating something new increased our desire to freshen up everything including our brochures. This product overview provides you with not only all of the information about our new products, we hope that it will also inspire you to design more new projects with steel roof and facade cladding.

SAB producer of steel profile sheets and sandwich panels

Every day we improve the process and develop new products. And we are continually surprised about the creativity with which developers employ our products and the craftsmanship of the roofers and facade cladders who install them.

Allow yourself to also be surprised by the ingenuity with which architects and structural engineers employ our materials. These pages show a host of ways in which steel is used on facades and roofs: a selection of attractive buildings that have been built and, of course, an overview of all our products.

SAB stands ready to support roof and facade specialists.

As such a specialist, you purchase the materials you use every day. It is very important to have a reliable supplier. Fast and correct quotes, reliable technical advice, clear information and short delivery times. Materials that are delivered at the agreed times and, if something occasionally goes wrong, you want a fast and professional solution. That is what SAB offers you.

Professional knowledge is required when using steel roof and facade cladding. Knowledge that you and also SAB have. Where required, together with our technical specialists, we ensure that every project is well thought through. Always the right knowledge at the right moment. We are pleased to share this knowledge with you as a sparring partner.

SAB offers designers inspiring environments with an enduring appearance.

In recent years architects have discovered the aesthetics of steel facade cladding. The wide variation in colour and profiles repeatedly gives a surprising effect and leads to the most creative designs. Take for instance the spectacular patterns of the Pyramid profiles architect Marie Wastiau designed for distribution centres. Or the unorthodox use of gold coloured cold roof decking in Colorcoat Prisma® Ephyra for the roof and facade cladding of a primary school. Whether you design a school, a distribution centre or a golf club, profiled steel sheeting guarantees just that extra touch when creating a stylish, playful, clean, futuristic or serene atmosphere.

This product overview shows you what is possible with steel facade cladding. Would you like to be inspired or get some advice? Please contact one of our consultants. We would like to help you and would be pleased to visit you to show you our materials and to participate in the design process.

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 info@sabprofiel.nl

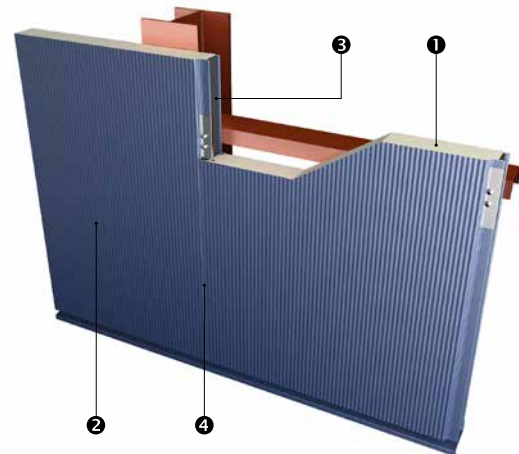
Quickstart metal facade cladding

Find your way quickly around facade cladding. This overview of the mounting systems for metal facade cladding gives you a flying start. Three systems that each offer their own advantages. Have you made your choice? Then quickly leaf through to the inspiration or specification pages where you will find all of the products.

Sandwich panels - PIR

An insulated, watertight facade with inner and outer sheeting in a single pass. That's what sandwich panels are all about. Thanks to a high-quality expanding sealant, an airtight construction is easily achievable. The optional FM approval guarantees fire safety.

Leaf through to page 6 for attractive examples of facades clad with SAB sandwich panels. For the technical specifications, see page 54.



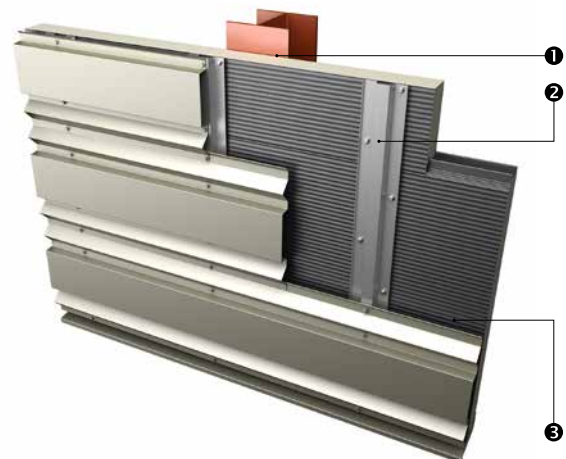
- 1) Installation of the panels directly on the load-bearing construction.
- 2) Panels can be installed both horizontally and vertically.
- 3) No thermal bridges: the inner and outer sheets are not in contact. This prevents heat loss.
- 4) Optically smooth appearance due to special lining.

Carrier construction with an aesthetic curtain wall

Rapid construction, the ultimate insulation and complete aesthetic freedom. The carrier construction offers it all. Pre-fab SAB-Carrier sandwich panels ensure easy installation and a building that is quickly wind and watertight. Every conceivable aesthetic layer can be installed on this load-bearing building shell. The perfect surface on which to install SAB profiled sheets.

Are you looking for inspiration?
Then quickly leaf through to page 10 for reference projects.

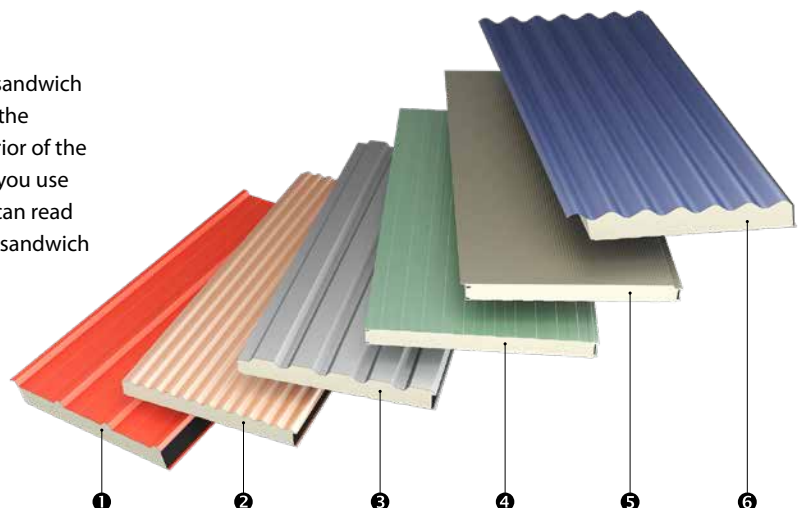
Do you want to know all of the technical details? On page 54 you can read all of the specifications.



- 1) Direct installation of the SAB carrier panel on the load-bearing construction.
- 2) Omega profiles for the installation of the curtain wall on the SAB carrier panel.
- 3) Profiled sheets can be installed in every possible orientation.

Lining and profiles

What does a facade clad with SAB sandwich panels look like? That depends on the lining and the coating on the exterior of the panel. It also makes a difference if you use a visible or blind attachment. You can read everything about these aspects of sandwich panels on page 8.

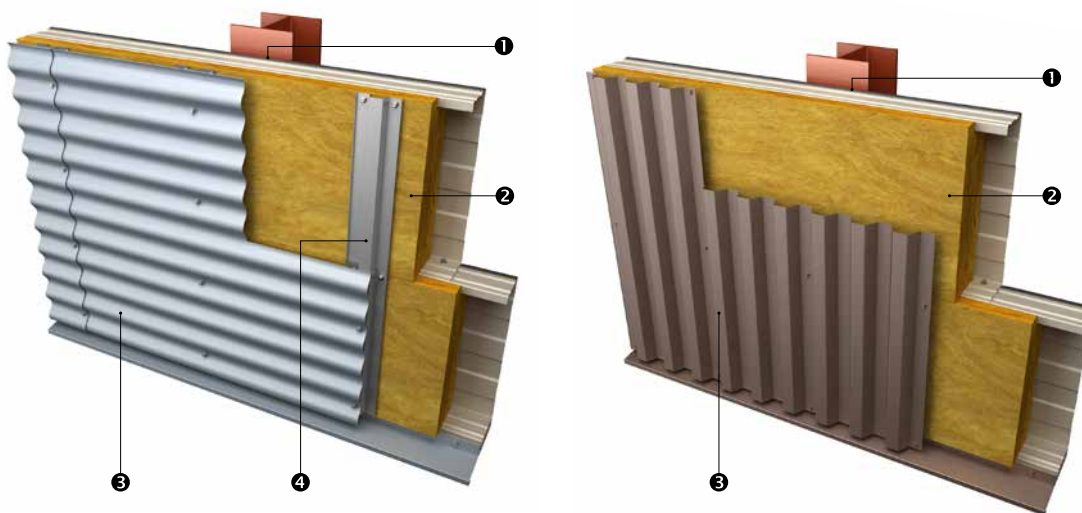


- 1) SAB sandwich roof panel TL
- 2) SAB sandwich wall panel SL
- 3) SAB sandwich wall panel TL
- 4) SAB sandwich wall panel LL
- 5) SAB sandwich wall panel ML
- 6) SAB sandwich roof panel SL

Construction using structural liner trays and a profiled sheet

Choose to use a construction with structural liner trays, insulation and an outer sheet if high requirements are placed on acoustics, fire safety or on an industrial, flexible and demountable installation.

You can also find inspirational examples of facades with profiled sheets on page 12. Leaf through to page 57 for all of the technical specifications of structural liner trays and profiled sheets.



- 1) Installation of the structural liner tray on the load-bearing construction.
- 2) Mineral wool for insulation, acoustics and fire resistance.
- 3) Profiled sheets can be installed horizontally or vertically and are available in many versions and colours.
- 4) An omega profile is used to mount the profiled sheets horizontally.

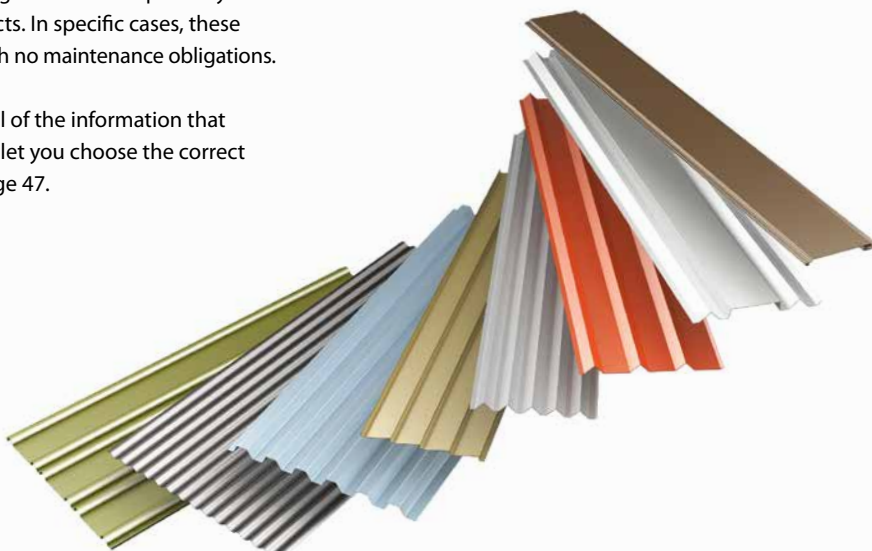
Colours and coating systems

What is the expected life of steel facade cladding and under which conditions is the cladding suitable? That depends heavily on the chosen coating. SAB-profil supplies products for a wide range of circumstances, consider here food, maritime or agricultural. Ask about the guarantees of up to 40 years for SAB products. In specific cases, these even apply with no maintenance obligations.

You can find all of the information that you require to let you choose the correct coating on page 47.

SAB profiled sheets

When a construction system or SAB carrier panels are used, profiled sheets determine the appearance of the facade. Select from the extensive range of profiles and colours that will give your building its identity.



SANDWICH PANELS FOR THE FACADE



Wind and water tight in a single pass

Sandwich panels are ideal if you want to build quickly or if high insulation values are important. They are an economic choice, score highly on sustainability and their light weight make them suitable for many types of application. From the aesthetic point of view, SAB sandwich panels offer you numerous opportunities. They are available in many shapes, coatings and colours. Carrier panel versions of SAB sandwich panels can even be used as an insulating, water tight and structural base for various curtain walls.

Sandwich panels in brief:

- Excellent insulation values due to the lack of thermal bridges.
- Prefab building elements: fast and problem-free installation with minimum risk on the building site.
- Circular construction due to removable attachments.
- Wind and water tight in a single pass, with both an interior and exterior finish.
- Optimally air tight due to high-quality joint sealant.
- Fire safe due to the use of state-of-the-art PIR technology.
- Light weight: 10 to 16 kg/m² (dependent on thickness and version). Therefore, both the structure and foundation can be light in weight.
- Sound insulation value of 26dB
- Smooth exterior, available in many coatings and colours.

Project: SAB-profiel Geldermalsen

- › Architect: Convex architecten
- › Contractor: Bouwbedrijf Vrolijk
- › Installation: Cladding Partners
- › Products: SAB-Carrier WB100 ML, SAB Pyramid 19/470, Colorcoat Prisma® Ephyra and Kronos

Sandwich panels - visible or blind fixing

It is not for nothing that designers of large halls and distribution centres almost always choose to use steel sandwich panels with PIR insulation in the core. They are practical and can be installed quickly and safely. With SAB sandwich panels, you create a clean and well-insulated facade. The panels have both an inside and outside finish. If desired, you can choose to use a Wall Blind (WB), then the screws are hidden in the joint.

- Can be installed both vertically and horizontally.
- With the blind (invisible) fixing (WB), the screws are invisible.
- The interior finish is lined (L) and as standard has an interior coating.
- Choice of exterior finish: lined (L), micro ribbed (M8 or M16), sinus (S) or trapezium (T).
- Can be finished in all conventional coating systems and colours. For Colorcoat® go to page 46.

With SAB Sandwich panels you also build in a fire-safe way. You can read everything about this important subject on page 36.





GLP Europe developed a sustainable 35,000 m² distribution centre in 2025 at the Medel industrial estate in Tiel. AG Logistics Services will use the green building, which has a BREEAM Excellent certificate. The façades of the building incorporate SAB WB sandwich panels with FM approval. The exterior features Colorcoat® SDP 50 in three grey RAL colours: 7011, 7016 and 7042.



Project: DC GLP / AG Logistics Services Tiel
 › Contractor: Roozen van Hoppe
 › Installation: Cladding Partners
 › Products: SAB WB FA M16L, SAB 135R/930

SAB-Carrier as a load-bearing sandwich panel

For those with additional aesthetic requirements, SAB supplies the load-bearing SAB-Carrier sandwich panels. These panels make it possible to create a building with more or less any conceivable appearance. Consider, for instance, aluminium curtain walls, composite, wooden lattice, expanded metal, or the SAB profiled sheets. This allows you to combine the advantages of insulated panels with complete design freedom.

- Ease of construction with sandwich panels; the insulated SAB-Carrier panels make the building wind and watertight quickly and easily.
- The panels serve as a load-bearing construction allowing an additional (curtain) wall to be installed with an attractive and varied appearance.
- The foam of the SAB-Carrier panels has a stronger bond and the steel of the outer sheet is thicker.
- To be able to guarantee the entire system, SAB provides the calculations for the panels and the attachment of the rail system on them.
- SAB supplies the SAB-Carrier panels as standard including the premium finish with Colorcoat HPS200 Ultra®, Colorcoat Prisma® or Colorcoat® SDP 50.
- The TL wall panels are also available in a Carrier version and are a good option to serve as the basis for a curtain wall.



SAB-Pyramid panels installed in the pattern shown here is not something you see every day. The Belgian architect bureau Wastiau & Co designed this pattern for the wall of the T-port Logistic Campus in Almelo. The pattern refers to the history of textile production in the Dutch province of Twente. The structures with a saddle roof refer to the rural surroundings in which the logistic hotspot stands. The project's size is also striking. The total complex covers 180,000 square metres, which is equal to more than 28 football fields.



Project: T-port Logistic Campus Almelo

- › Architect: Wastiau & Co
- › Commissioning party: Heylen Warehouses
- › Installation: Habemo Building Partner bvba
- › Products: SAB-Carrier WB100 ML, SAB-Pyramid 50/882, Colorcoat Prisma® Kronos

PROFILED SHEETS FOR THE FACADE

Project: Saman Groep

- › Architect: Erik van den Bos
- › Contractor: Bouwbedrijf Bijkerk
- › Installation: Cladding Partners B.V.
- › Products: SAB 45/900, SAB B1 10/600 perfo,
SAB 106R+/750, Colorcoat Prisma® Orion and Kronos

Profiled sheets

As a reputable and honest product, the steel profiled sheet hardly needs any introduction. They are liked for both their functional value and the way that they can be used. The traditional sinusoidal profiles and trapezium profiles are invariably appreciated for their functionality. Newer aesthetic profiles have also found a place in the architectural world. They give a clean appearance and extraordinary lines, which is in keeping with the image of a durable building. This is increasingly important for many people. The profiled steel sheets can be effectively combined with many other building materials, making them suitable for every environment. Install the facade cladding on structural liner trays on page 20 or on the SAB Carrier panels on page 10

- Very extensive choice in many shapes and colours.
- Excellent price / quality ratio.
- Suitable for Industrial Flexible and Demountable buildings.
- Has a high BREEAM certification score.
- High fire resistance and good acoustic properties.
- The panels are still mostly installed horizontally or vertically, but other directions can give a spectacular effect.
- Confidex® Guarantee for up to 40 years for the weatherside of industrial and commercial buildings with no inspection or maintenance to maintain its validity except when used on a roof or wall that has a Photovoltaic (PV) installation.

Profiled sheets Trapezium and Sinusoidal

Two traditional profiles that also have modern variants. The trapezium profile is the profile most frequently used. The shape has been developed over many years, it offers good bearing strength and a large span. Select one of the six different variants: Purely traditional, such as SAB 35/1035, modern, such as SAB 19/1050 or symmetrical and robust, such as SAB 45/900. The possibilities are even greater if you install them 'bottom side up'.

Due to their characteristic appearance, sinusoidal profiles are popular in industrial buildings, offices and homes. The ability to choose different heights (SAB 18, SAB 27 or SAB 42) in combination with different materials, gives the possibility to create innovative architecture.

Tip: sandwich panels with a trapezium (T) or a sinusoidal (S) exterior profile have a comparable appearance to the popular SAB 18/988 or SAB 35/1035 profiled sheets.



A chequered pattern of sinusoidal profiles in different soft shades of Colorcoat HPS200 Ultra®: Alaska Grey, Albatros, Ice Blue, Meadowland and Moorland. SAB Carrier panels make the distribution centre building Traveller VIII airtight in accordance with the BREEAM requirements.

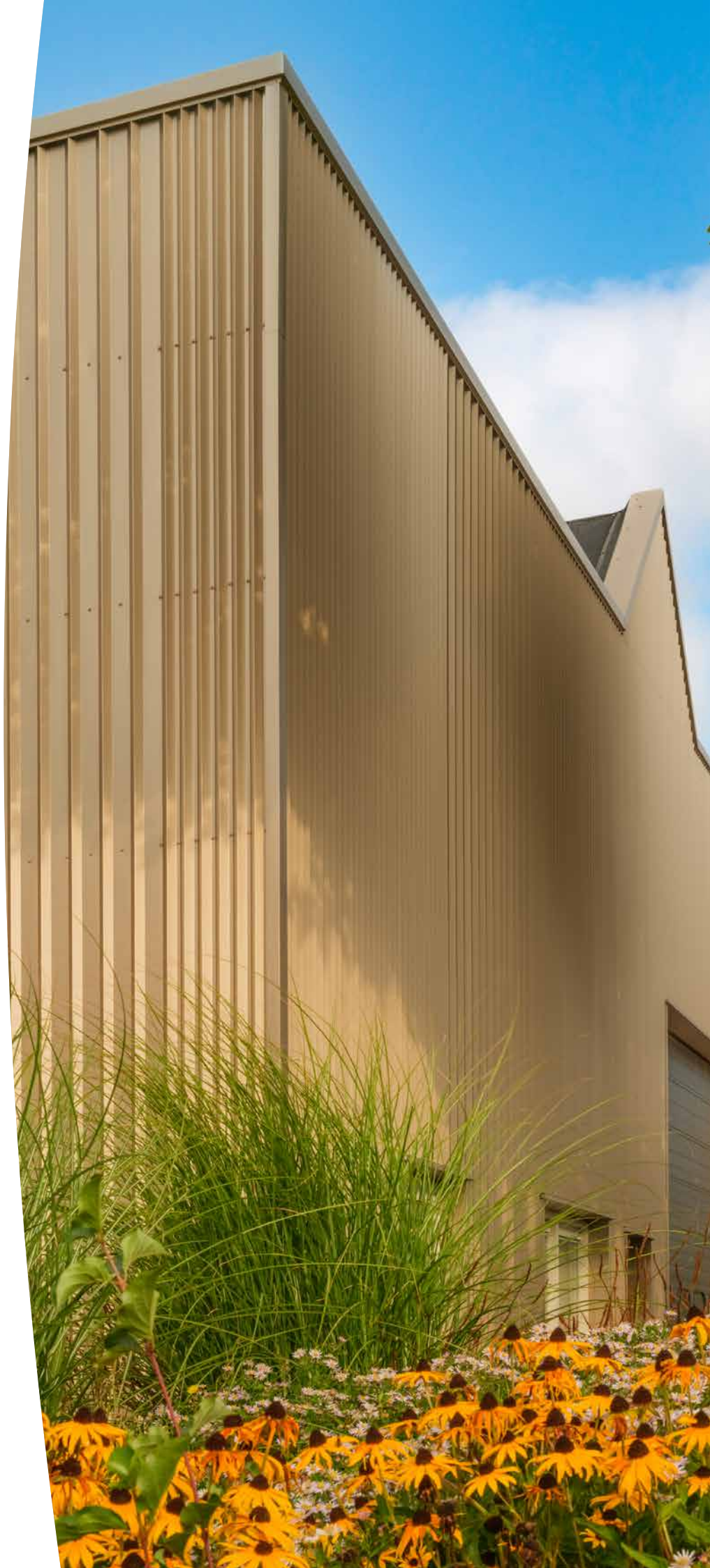


Project: Traveller VIII distribution centre, Venlo

- › Architect: Janssen Wuts Architecten
- › Contractor: H. Van den Boogaard Projecten / VDR Bouwgroep
- › Installation: Kempen Cladding b.v.
- › Products: SAB-Carrier WB 100 ML, SAB 18/988, Colorcoat HPS200 Ultra®

Pyramid profiles

Among architects, this is our most popular profile as it offers spectacular effects. When a project attracts attention and everybody is talking about it within SAB, it is usually a project that uses cladding from the SAB-Pyramid and SAB-Diamond line. In recent years, architects have designed facades with pyramid profiles, the appearance of which outclass each other. They have experimented with the incidence of light, the direction the cladding is mounted, the combination of various types of Pyramid profiles and the combination with other materials. There is no end in sight to this inventiveness, so we want to challenge you to design something that is even more sensational. We will be pleased to help you realise this.





Sun, clouds, rain — a weather pattern with varying light conditions is characteristic of the Netherlands. For the renovation of SAB's own production hall in IJsselstein, two different SAB-Pyramid profiles were chosen. The building has truly become a showcase.

For the exterior façade, the sustainable Colorcoat® SDP 50 in the gold-coloured metallic shade Dubai Desert was selected. In sunlight, it creates a beautiful sparkle, which is further accentuated by the lines of the various SAB-Pyramid profiles.



Project: Production hall IJsselstein

- › Installation: Metal Bouwconsort
- › Products: SAB B140/600, SAB-Pyramid 37/460 and 37/510 in Colorcoat® SDP 50 Dubai Desert

Design Profiles

SAB's design profiles are true eye-catchers for any façade and also elevate interior spaces to a higher level. Each design profile has a unique shape that, when combined with light, creates a special visual effect. By choosing pyramid profiles, block profiles, or another special design, a façade or interior gains its own distinct character.

In addition to the basic Essential line, which includes our Pyramid profiles and SAB-Tribune, SAB offers two more design profile collections: Allure (distinctive design profiles such as SAB-Block, SAB-Merlon, and SAB-Robusta) and Architect (exclusive concepts such as SAB-Pagode and SAB-Diamond). Visit our [website](#) for more information.



Moreover, combining various types of facade products in a variety of colours can create a coherent whole.



Project: Flexible housing Befe Utrecht

- › Architect: RoosRos Architecten
- › Contractor: Daiwa House Modular
- › Installation: Metal Bouwconsort
- › Products: SAB-Merlon 30/415-100 in Colorcoat Prisma® Ephyra

Structural liner trays

They are frequently used as the basis for a well-insulated metal facade, in particular when fire resistance and acoustics play a major role. The combination of glass wool or rock wool insulation with a structural liner tray (whether or not perforated) guarantees optimum performance. The U-shaped, self-supporting building elements can be attached - usually horizontally - directly to the steel structure. Using screws to do this makes the entire facade demountable and reusable. For the outside, you can select from almost all of our profiled sheets. On the inside of the building, the structural liner trays, if desired perforated for better acoustics in the room, provide a neat finish. Our structural liner trays are available in various sizes. Here you can choose to use sendzimir galvanised steel or galvanised steel with a Colorcoat® PE 15 interior coating. This coating lightens the appearance of the space appreciably.





An elegant brick facade, that was the original idea of Architect Frans van Roy for the Multifunctional Accommodation Hart van Meerdervoort. He finally decided to use the steel SAB-Pyramid 19/470 and SAB-Pyramid 19/520 profiles. These let him achieve the desired appearance. They also had a more favourable price-quality ratio and the material is suitable for light and demountable building.



Project: MFA Hart van Meerdervoort

- › Architect: Frans van Roy
- › Contractor: Van Wijnen Dordrecht BV
- › Installation: Metal Bouwconsort b.v.
- › Products: SAB-Pyramid 19/470, SAB-Pyramid 19/520, SAB B90/500, SAB 106R+/750, Colorcoat Prisma® Ephyra

Quickstart metal roofing

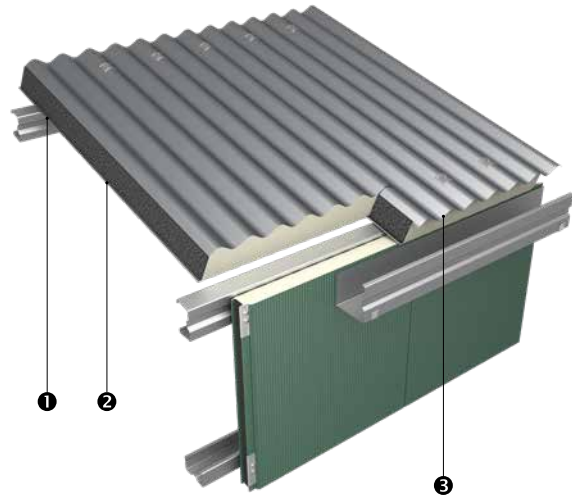
Roof panels, deep decks or cold roof decking. You can choose between many different metal roofing products to clad roofs. Which product suits which roof? SAB sets out the various systems for you, with a quickstart guide and appealing projects on the following pages. You can also go directly to the specification pages that show all of the products.

Sandwich panels for the roof

Choose SAB sandwich roofing panels for an insulated inclined roof. The prefabricated PIR panels can be installed in a single pass, which means you build quickly. The insulation keeps out the heat in the summer and the cold in the winter. Sealant guarantees an airtight joint between the panels.

Are you looking for inspiration?
Take a look at the projects on page 26.
Do you want to know all of the technical details?
Page 67 gives you all specifications.

The inner and outer sheets of the panel are separated. This prevents heat leaking away through thermal bridges.
Our advanced PIR foam ensures fire safety.

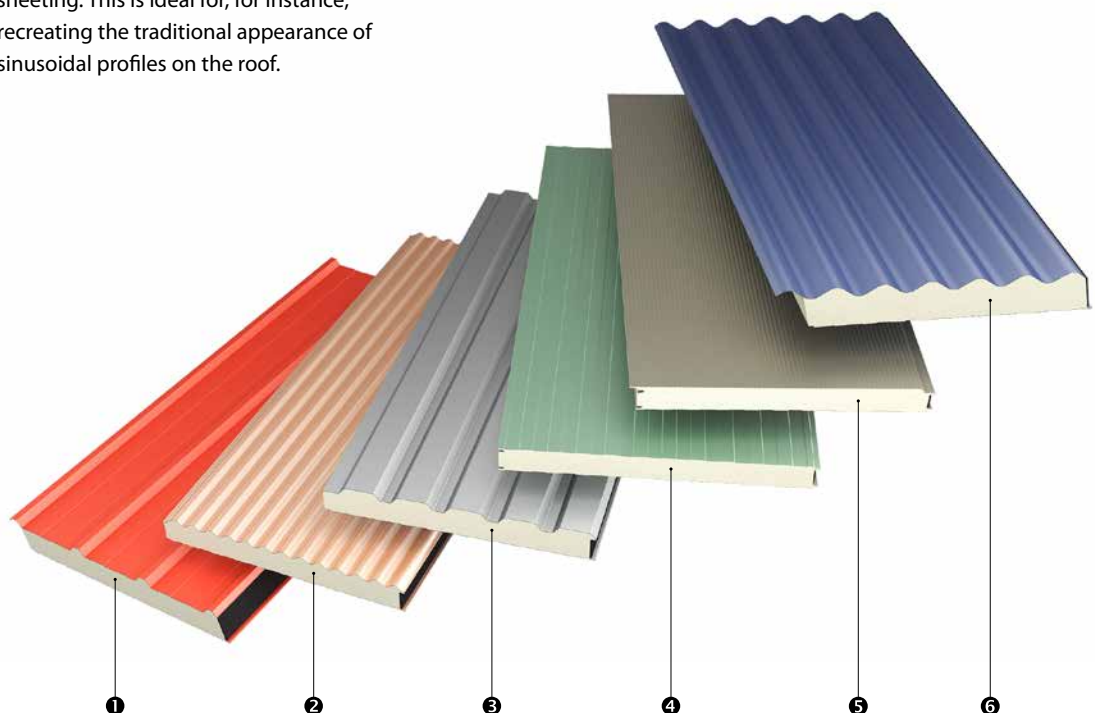


- 1) Installation of the SAB roofing panels on the purlins.
- 2) No condensation formation.
- 3) The cutback makes any after treatment on site redundant.

Profiling of sandwich panels

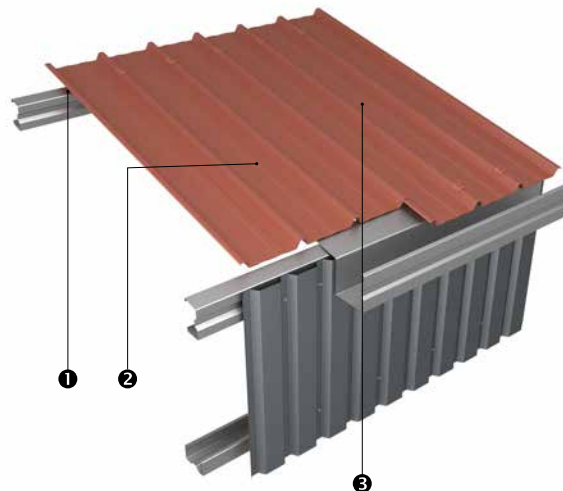
Inclined roofs stand out in the landscape. No wonder that the requirements placed on their appearance are often specific. Therefore, the SAB sandwich panels are not only available with a trapezium outer sheet, but there is also a variant with sinusoidal sheeting. This is ideal for, for instance, recreating the traditional appearance of sinusoidal profiles on the roof.

- 1) SAB sandwich roof panel TL
- 2) SAB sandwich wall panel SL
- 3) SAB sandwich wall panel TL
- 4) SAB sandwich wall panel LL
- 5) SAB sandwich wall panel ML
- 6) SAB sandwich roof panel SL



Single skin sheeted roof

Are you creating an open bicycle shed, a canopy or an unheated hall? Then insulation is superfluous. SAB roof decking profiles offer the appropriate solution. It is cheap and quickly provides a wind and waterproof roof. The many colours and profiles can give the roof the appearance you desire. You can prevent condensation dripping by using condensation-inhibiting foil. And you can create a curved roof using curved cold roof decking. Moreover, cold roof decking can be effectively used as the top finish of a double-shelled roof.



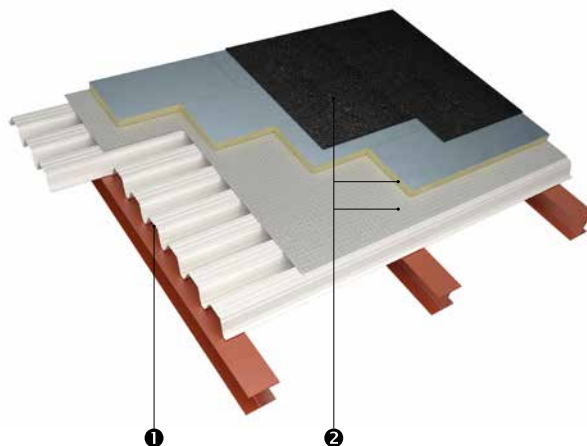
On page 28 you can see attractive examples of the use of cold roof decking. For the technical specifications, see page 69.

- 1) Installation of the SAB roofing panels on the purlins.
- 2) Good drainage due to special profiling.
- 3) Long life due to premium coating.

Flat insulated roofs

The SAB deep decks are the solution for flat roofs. These load-bearing elements can handle large spans, up to more than 10 metres. This is why they appeal to hall constructors. The technical specifications determine the choice for one of the many versions. In recent years, architects have used deep decks more often visibly in buildings.

You can find all of the versions and their specifications on page 71. You can see examples of the deep deck panel as an aesthetic element on page 30.



- 1) Installation of the deep deck profiled sheet on the steel construction.
- 2) Vapour barrier, insulation and roofing make the roof complete.

Colour and protection: the coating system

Aesthetic and functional requirements determine the colour of the roof. This can be important for both the inside and the outside. On the inside of deep decks, the extra white colour RAL 9010 provides for a lighter room. For cold roof decking and sandwich panels, the coating system determines the life of the roof. SAB-profiel supplies sandwich panels with coating systems for diverse conditions, including

maritime environments, the food industry or agricultural applications. Dependent on the application, a maintenance-free guarantee of up to 40 years is given, including the cut edges!

You can find all of the information you require to choose the appropriate coating on page 46.

A STEEL ROOF: ROBUST, SELF- SUPPORTING, DURABLE

Roof panels and profiles

Steel for the roof, you can hardly avoid it. As soon as requirements are placed on bearing capacity, span, weight, costs or durability, steel rapidly wins from other building materials. From the largest sports stadium to the smallest shed, from special architectural solutions to purely functional applications, they all use steel in the roof.

With SAB roof products, you choose for robust material, which can be rapidly installed and offers a wide variety of colours. In addition, the elements are self-supporting and steel is 100% recyclable.

SAB Geldermalsen, coil hall under construction.

Roof panels

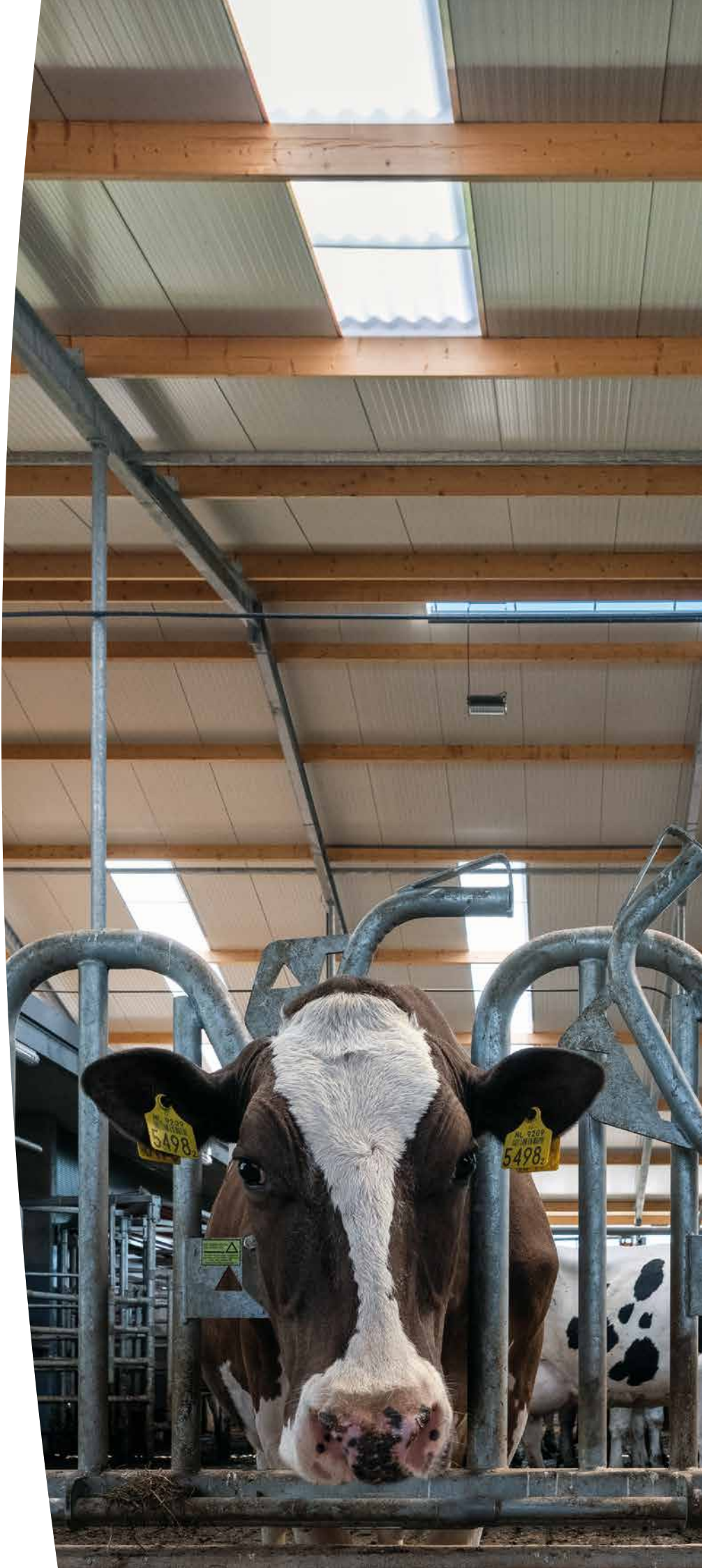
New construction or renovation, for every hall, shed or stable with an inclined roof, sandwich roof panels are the ideal solution. The design of the new production facility in Geldermalsen is completely optimised. The new panels combine the best properties of existing sandwich roof panels:

- With 3 crown trapezoidal, or 40 mm sinusoidal sheeting on the outside.
- Panels up to 25 metres long.
- A thick core of fire-resistant PIR foam provides the perfect insulation.
- Improved joint: A prefabricated element without thermal bridges and with sealant in the joint guarantees an Rc value exceeding 6.0.
- Suitable for airtight construction.
- A cutback at the end that is 100% free of foam.
- An ECO variant including embossed aluminium on the inside.

And of course

- Colorcoat HPS200 Ultra®, Colorcoat Prisma® and Colorcoat SDP 50® pre-finished steel for a free choice in colours and a roof that lasts for decades.
- Strong and lightweight, making it possible to make savings in the steel construction.
- Rapid and simple installation.
- Extremely suitable for both new and renovated (to remove asbestos) buildings.

Asbestos renovation improves the living environment of cows.





Room for all machines under a single roof. A clean look that merges perfectly in Groningen's panoramic agricultural landscape. Sandwich panels that provide insulation and fire safety. In short, a hall that meets all of today's requirements.



Project: Schoenmaker Agri B.V., Vlagtwedde

- › Contractor: Klussenbedrijf en Timmerfabriek H. Loning
- › Installation: BV Metaalbouw TSV
- › Products: SAB D115 TL, SAB WB80 ML, SAB W120 EI30, SAB 35/1035, Colorcoat HPS200 Ultra®, Goosewing Grey and Anthracite

Single skin roof decking

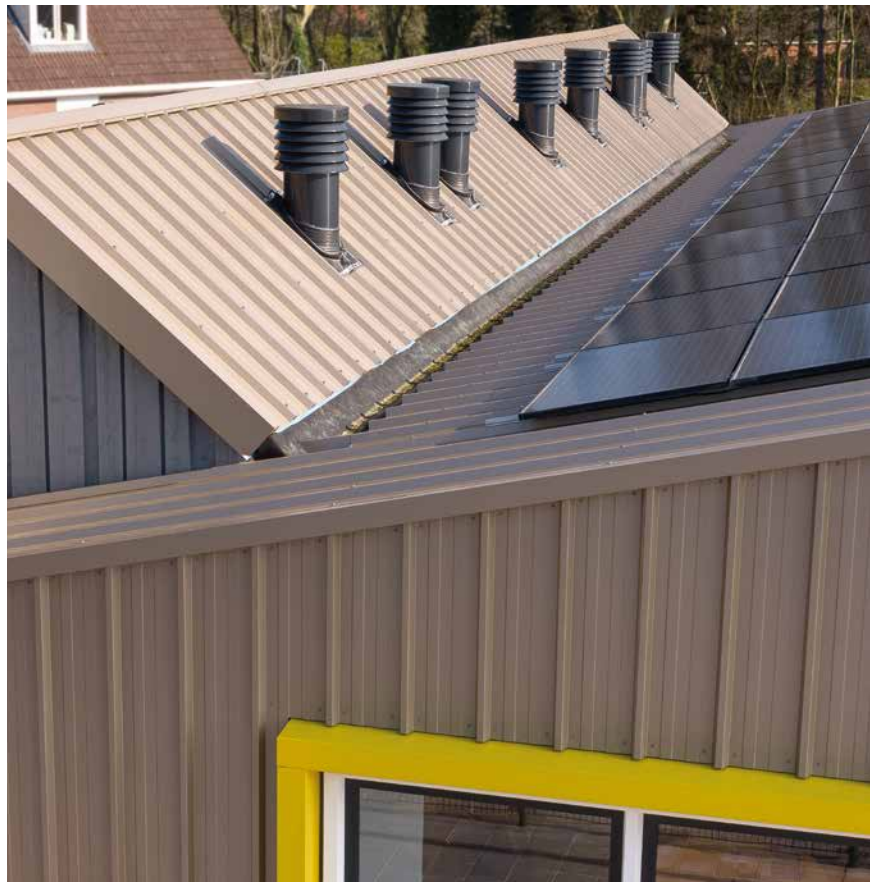
Strong, economic and very durable. Single skin roof decking provides the perfect finish for an unheated roof and is also appreciated for the exterior shell of a double-shelled roof. We can supply it with a trapezium profile or as sinusoidal sheeting. The trapezium single skin roof decking has wide channels for rapid and easy drainage. By curving a sinusoidal sheet, you can even create curved roofs.

Installed on the facade it gives a completely different effect. To prevent condensation dripping, condensation inhibiting foil can be attached to the inside. Go to page 69 for all single skin roof deck profiles.





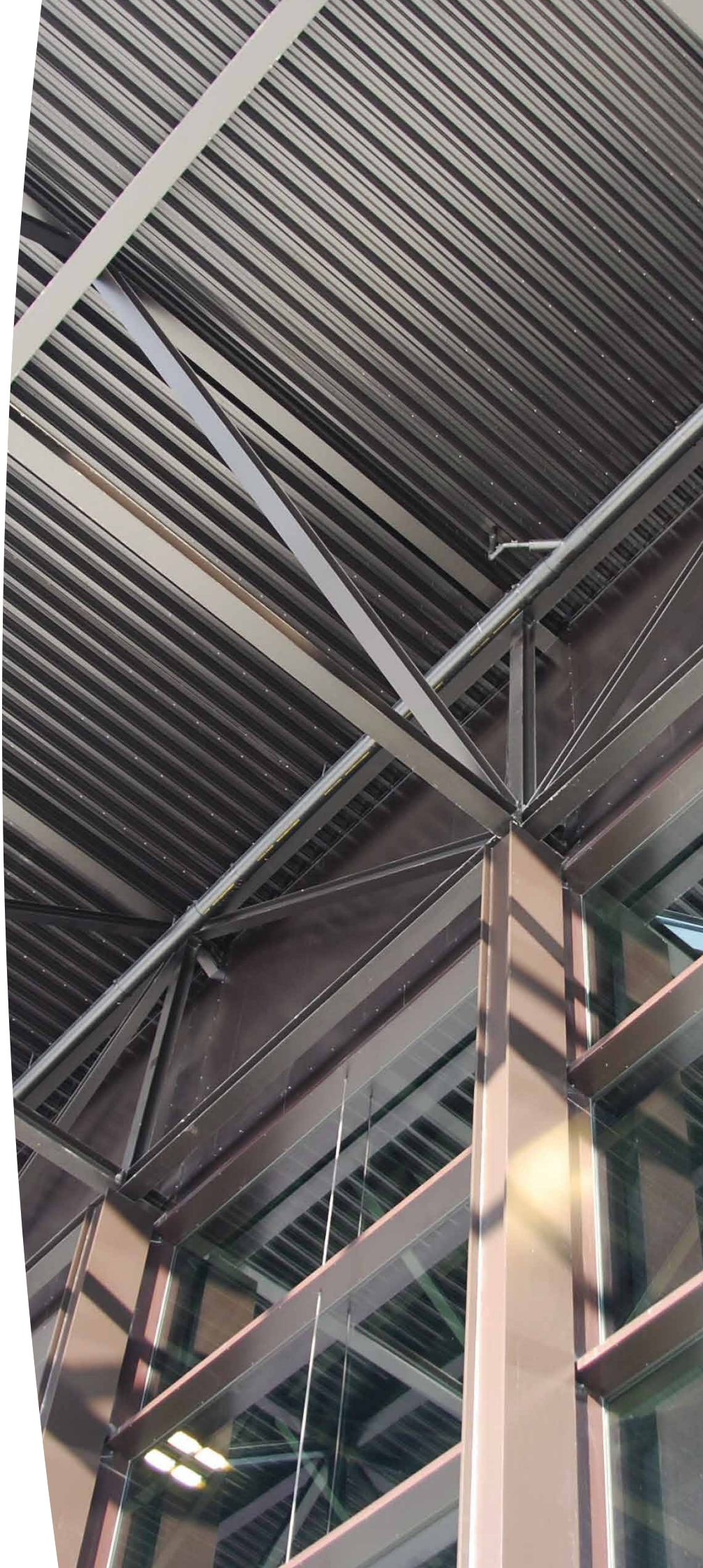
The objective in Bedum, Groningen, is to make all schools in the municipality earthquake proof. The Horizon was the first school to be rebuilt in this process. A steel structure with special stability elements provides security in earthquakes.



- Project: Primary school 'GBS De Horizon' in Bedum**
- › Architect: Architectenburo Klamer
 - › Contractor: BAM
 - › Installation: BV Metaalbouw TSV
 - › Products: SAB 45KD/1000 in Colorcoat Prisma® Ephyra

Deep decks

As a load-bearing element for insulated roofs, deep decks mainly have a structural function. The profiles make large spans possible, in excess of 10 metres if necessary. In addition, deep decks are becoming increasingly seen in modern architecture: They make a major contribution in numerous sensational buildings, for instance in the National Military Museum Soesterberg, where everyone also looks at the roof. At SAB you can find deep decks in a wide range of heights, from 35 mm, through the standard SAB 106 to 205 mm. For better acoustics in the room, we can supply perforated roof decking and in addition to sendzimir galvanised, you can also choose for a Colorcoat® PE 15 interior coating, which ensures more light inside.





One of the most striking flat roofs in the Netherlands: the roof of the National Military Museum in Soesterberg. The surface area of almost 32,000 m² is covered with SAB 158R/750 deep decks, the majority of which are perforated for good acoustics in the museum. The numerous airplanes suspended from the construction stand out well against the special RAL 8022 colour on the inside of the roof. Due to the use of SAB 18/988 sinusoidal profiles, the watchtower and the associated museum depot remind visitors of the old military Romney sheds that had to make way for the museum.

Project: Military Museum Soesterberg

- › Architect: Felix Claus Dick Van Wageningen Architecten
- › Contractor: Heijmans
- › Installation: Nedicom dak- en geveltechniek
- › Products: SAB 158R/750 (Perfo), SAB 18/988, Colorcoat Prisma®

Services

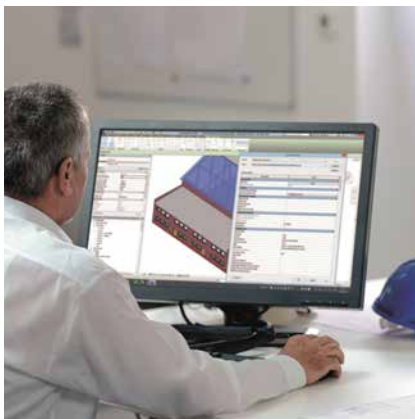
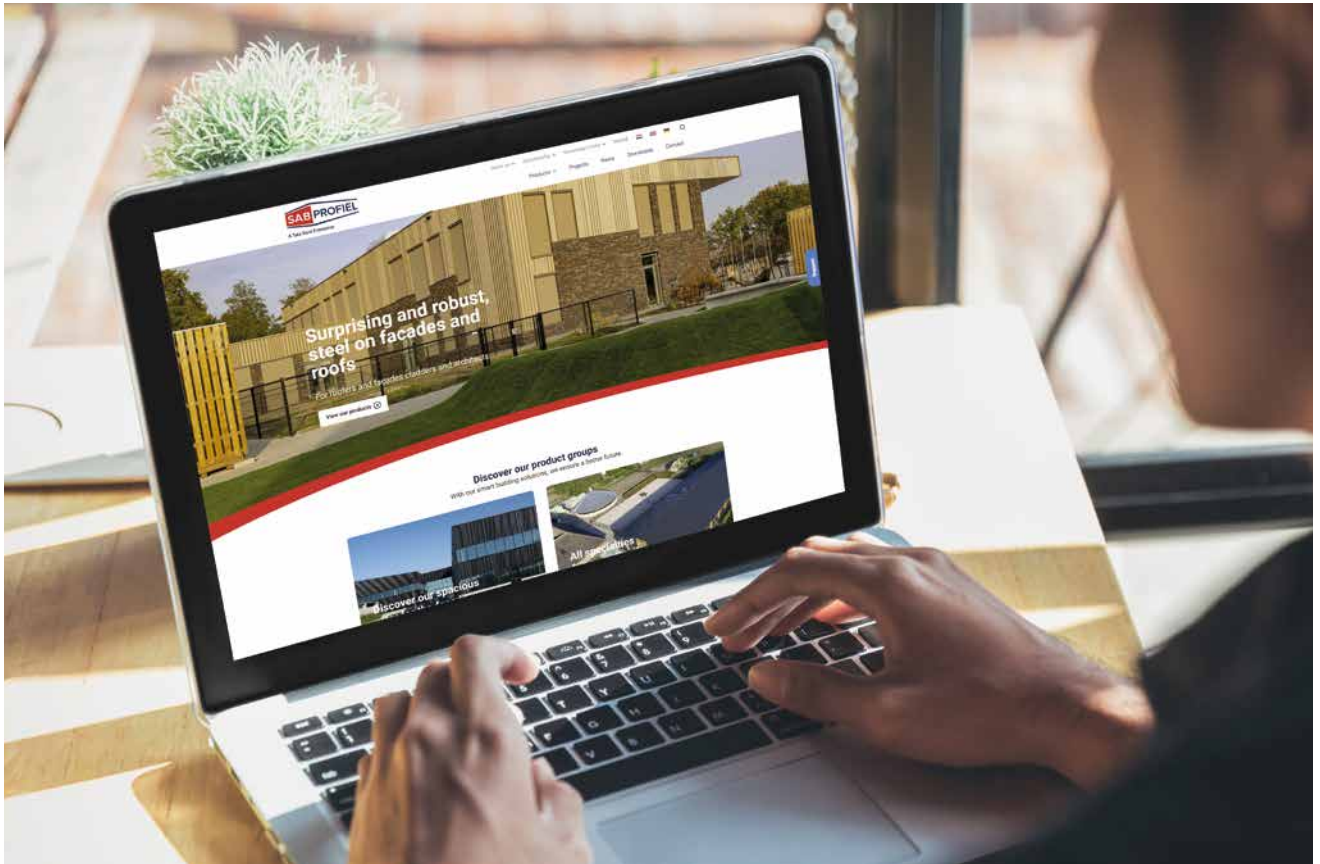
SAB supports you in all stages of the construction process. Whether you are an architect, structural engineer or mechanic, our experts are available to answer your questions. From specification texts and static calculations through to advice related to fire, acoustics, insulation, airtight construction, detailing, instructions for correct installation and of course maintenance tips that guarantee a long life of our products.

Especially for architects, SAB has new business developers who contribute and provide advice on the aesthetics of the design. We are also available to answer any questions after completion of the construction process.

Have you doubts about the choice of profile or colour?

Ask for a free product or colour sample,
call: +31 (0) 30 68 79 700 or email:
info@sabprofiel.nl





The SAB website helps you to realise your construction plans with:

- the extensive BIM 3D models
- a project database in which you can search, among other things, on product and colour
- everything about our carriage paid deliveries
- our specification service
- downloads of all documentation, product drawings and certificates
- installation tips
- the free SAB calculation program for profiled sheets and structural liner trays
- requests for product and colour samples

Subscribe to the newsletter to avoid missing any of these tips.

MySAB

Do you regularly order products from SAB? Then it is handy to be able to access your MySAB account. This online environment lets you see your order history and monitor the status of your orders. It also makes it possible to enter your orders or to specify them in more detail. Whenever it suits you best. Via smartphone, tablet or computer.

A list of all the advantages of MySAB:

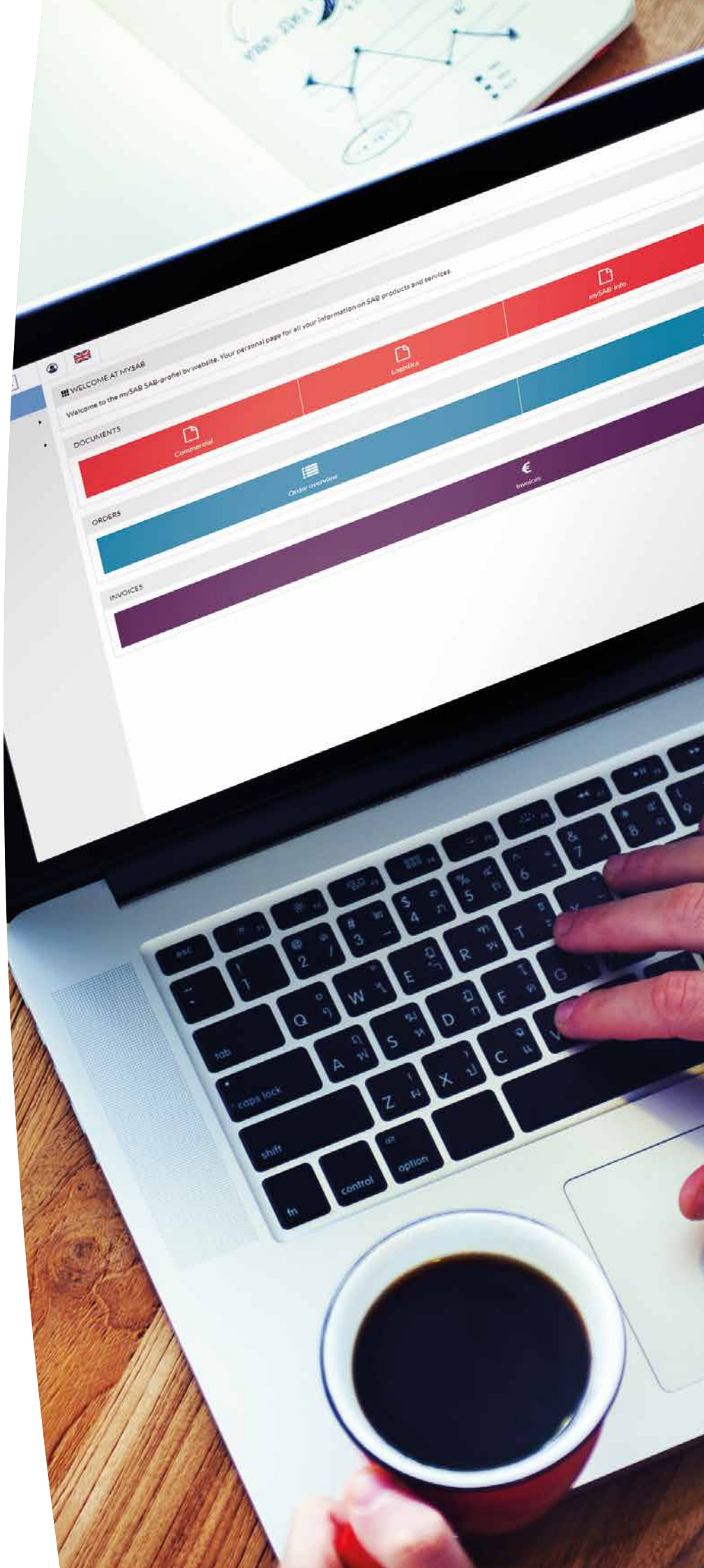
- Order status: Check the status of your orders when it suits you best. 24 hours a day.
- Entering and changing orders: Enter your order yourself online. Quickly and simply. Do you want to book an order and specify the details, including lengths, later? That is also possible simply and quickly via MySAB.
- Order history: in your MySAB account you can access your complete order history. A handy database in which you can find everything you have ordered from us in the past. Everything together in a single system.

Request

Every SAB customer can access MySAB. Request an login code via mysab.nl. Then you can log in via the browser in the online environment. After making your request, you will receive the MySAB instruction manual. This lets you quickly get going.

Would you prefer a personal explanation? That is also possible!

On request, an SAB employee will pay you a visit to demonstrate MySAB. Please contact our sales department to request a visit.



BIM 3D Models

SAB-profiel supports you in the design process with the webportal www.3dfindit.com that contains BIM 3D models of the SAB products.

The BIM objects are available in all common BIM-software formats, including Autodesk Revit, ARCHICAD and Trimble SketchUp or as an IFC file. For architects, structural engineers, installation companies and facility managers.



Step 1: Log in

- Go to www.3dfindit.com, subscribe (no charge) and log in.

Step 2: Select

- The search program and the filters help you to choose the right product.

Step 3: 3D

- Select the level of detail for the 3D model.
- Your object is now available!

Step 4: Download

- Create your unique object in real time and have it sent directly to your desktop.
- More than 20 native file formats, including Revit, Allplan, ArchiCAD.

BIM: as you would like it

Fire safety

Fire in your building. Whether you are a user, builder or designer, fire is something you really do not want to have anything to do with. So it is logical that there are many requirements designed to prevent fires starting and to limit their consequences if they do start. Here, facades and roofs play an important role. The choice of material is also important for fire-safe building. Here is a list of the main terms.

Reaction to fire classes

EN 13501-1 defines 7 Euro Fire classes, being: A1, A2, B, C, D, E and F. Class A1 (incombustible) is the highest and with it the safest class. Fire classes E and F are very combustible and are not allowed to be used in the Netherlands. There are three smoke classes defined: s1, s2 and s3. Smoke class s1 gives the least smoke. When d0 is appended, it means that no burning droplets will be released.

The basic requirement in the Netherlands is class D. However, facades higher than 13 metres must meet at least class B, which is also the case for the bottom 2.5 metres of facades, if the hall has a floor at a height greater than 5 metres. In the Netherlands, the maximum smoke class is s2 for the inside of buildings.

We have good documentation and certificates for the SAB products, so it is immediately clear which products you can choose for which fire class.

- SAB sandwich panels are classified as B-s2, d0 and therefore meet the requirements for almost every application.
- A system of SAB structural liner trays, mineral wool and a steel profiled cladding even meets non-combustibility (Class A).



Resistance to fire SAB PIR panels, vertically tested as façade (unless stated otherwise)

SAB panel type	Vertical/ Horizontal	Type of fire	Maximum ¹ span in mm				Joint stitching
			3000	4000	5000	6000	
SAB WB ≥100 mm	V	o > i	EI20-ef, EW90-ef	EI20-ef, EW90-ef	EW60-ef	EW60-ef	a
SAB WB ≥100 mm	V/H	i > o	EI20, EW30	EI20, EW30	EW30	EW30	a
SAB WB ≥120 mm	V	o > i	EI30	EI30	EI20	EI20	g
SAB WB ≥120 mm	V	i > o	EI20, EW30	EI20, EW30	EI15, EW20	EI15, EW20	g
SAB WB ≥120 mm	V	o > i	EI20, EW60	EI20, EW60	EI15, EW60	EI15, EW60	-
SAB WB ≥120 mm	V	i > o	EI20, EW30	EI20, EW30	EW20	EW20	-
SAB WB ≥140 mm	V/H	o > i	EI30-ef, EW90-ef	EI30-ef, EW90-ef	EI30-ef, EW60-ef	EI30-ef, EW60-ef	a
SAB-Carrier WB ≥100 mm	V	i > o	EI20, EW90	EI20, EW90	EI15, EW60	EI15, EW60	a + f
SAB W ≥120 mm	V	i < > o	EI20, EW60	EI20, EW45	EI15, EW30	EI15, EW30	b
SAB W ≥150 mm	V	i < > o	EI20, EW60	EI20, EW60	EI15, EW60	EI15, EW60	-
SAB W95 en W135.1000 TL	V	i > o	EI15	EI15	-	-	c
SAB D ≥ 90 mm TL	V	i > o	EI15, EW45	EI15, EW45	EW30	EW30	e
SAB D ≥ 130 mm TL	V	o > i	EI30-ef, EW90-ef	EI30-ef, EW90-ef	EI20-ef, EW60-ef	EI20-ef, EW60-ef	d + e

1: also check maximum span for the wind loads present

Type of fire

i > o Tested from inside to outwards

o > i Tested from outside to inwards

i < > o in both directions

Classification:

ef Reduced fire curve due to external fire

Execution joint

a Firesafe screws c.t.c. 333 mm

b Stich c.t.c. 333 mm

c Stich inner sheet c.t.c. 1000 mm

d Stich inner sheet c.t.c. 333 mm

e Regular stitching outer sheet c.t.c. 500 mm

f Hat profile with rain screen made of steel

g Factory applied intumescent sealant

FM Approved

FM Global is the world's largest insurer of industrial buildings. To limit the risk of loss, FM Global has its own test facilities in America. Here building materials are certified with respect to wind, hail and fire. For insured safety, you can combine SAB sandwich panels with SAB deep decks, both including an FM-approval.



The sandwich panels SAB WB-FA and SAB W-FA are certified for FM standards 4880 and 4881.

The roofpanels SAB D-FA are certified for FM standards 4880, 4881 and 4471.

The deep decks SAB FA 135R/930, SAB FA 153R/840, SAB FA 158R/750, and SAB FA 200R/750 comply to FM standard 4451 (but not valid for Perfo).

UL(C) Approval

Our UL(C) certificate is according to the following safety standards:

- ANSI/UL 723, Standard Test for Surface Burning Characteristics of Building Materials
- CAN/ULC-S101, Standard Methods of Fire Endurance Tests of Building Construction and Materials
- CAN/ULC-S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
- UL 790, Standard Test Methods for Fire Tests of Roof Coverings
- CAN/ULC-S107, Standard for Impact Resistance of Prepared Roof Covering Materials



The sandwich panels SAB WB 60 80 100 120 140, SAB W 40 60 80 100 120 150, SAB D TL 70 90 110 130 160 and SAB VL are certified for UL(C).

Fire resistance

The resistance to fire penetration of the facade is the degree to which the facade can stop the spread of fire from inside to outside or from outside to inside for a certain time.

- **EW-30** means a resistance to fire penetration of 30 minutes.
- **EI-30** means a resistance to fire penetration of 30 minutes including a temperature criterion.

This is important to prevent fire spreading from outside to inside.

Acoustics

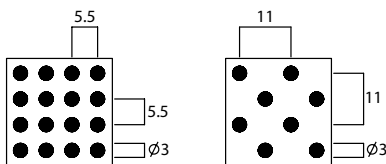
Perforation

If additional requirements are imposed on the acoustics of a building, the profiled roof and facade sheets and structural liner rays can be provided with a perforation pattern. You can of course also order perforation if you are mainly concerned with the aesthetic properties. If you opt for perforation, keep in mind that the permissible load and deflection will change. Many SAB perforated sheets are provided with an embossing to roll away perforation stresses in the material.

Percentage open space

SAB supplies two standard perforated patterns: Perfo 3 and Perfo 4 (perforation of 23.4% and 11.7%). For larger quantities, however, SAB can offer and supply some conceivable perforation pattern.

Due to tension in the upstanding sides, SAB recommends using the deep decking profiles SAB 200R/840 with perforation pattern (L-B) from 0.88 mm. Not required for perforation pattern L-S.

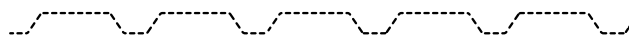
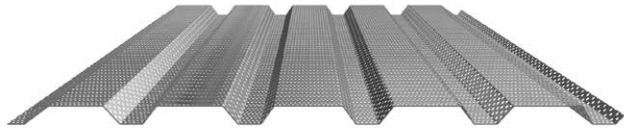


Perfo 3

Perfo 4

SAB advises in connection with the fasteners and the static properties to allow deep deck roof profiles to be perforated only in the body. Acoustically, the difference with full perforation is small. Other perforation options on request.

Additional edits Wall cladding/ Perforation / Wall



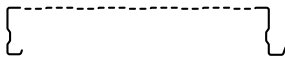
SAB 35/1035 P full



SAB 42/960 P full

	P3 full	P4 full
SAB 18/988	o	o
SAB 27/1000	o	o
SAB 42/960	o	o
SAB 19/1050	o	o
SAB 30/1100	o	o
SAB 35(R)/1035	o	o
SAB 40(R)/915	o	o
SAB 45/900	o	o
SAB 50(R)/1000	o	o
SAB-Pyramid	o	
SAB-Designprofiles		o

Additional edits / Perforation / Liner trays



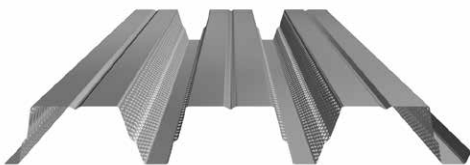
SAB B90/500 P ZZ



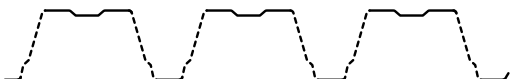
SAB B110/600 P ZZ

	P3 ZZ	P4 ZZ
SAB B90/500	o	o
SAB B90/600	o	o
SAB B100/600	o	o
SAB B110/600	o	o
SAB B120/600	o	o
SAB B130/600	o	o
SAB B140/600	o	o
SAB B145/600	o	o
SAB B160/600	o	o
SAB B180/600	o	o

Additional edits Roof decking/ Perforation / Roof



SAB 70R/800 P full



SAB 106R+/750 P L-B



SAB 158R/750 P L-S

	P3 full	P4 full	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 135R/930				o	
SAB 153R/840				o	
SAB 155R/840				o	
SAB 158R/750				o	
SAB 160R/750				o	
SAB 200R/750				o	o
SAB 200R/840				o	o

Sustainability

SAB-ICO₂N®

Sustainable entrepreneurship is, with an eye on the future, a license to operate. Sustainable building systems are the future. To accelerate that transition, we developed SAB-ICO₂N®.

It is SAB-profiel's answer to the demand for tailor-made solutions that enable CO₂-neutral or circular construction. In addition, corporate social responsibility also plays an important role. For us, this means paying attention to the interests of our customers, as well as those of our employees, our surroundings, and society as a whole.



Durable material

Steel is one of the few materials to truly have a closed recycling cycle. So steel is not consumed but can be reused time and time again, without deteriorating in quality and strength. This makes steel the ideal material for sustainable construction.

All SAB products leave the factory with specified dimensions. So hardly any construction waste is created. When the panels are installed using screws, they can be easily demounted. During its life, a building can be adapted to another function using relatively simple resources. This increases the entire life of the building. Due to the low weight of sandwich panels and profiled cladding, both the foundation and the construction can be made light in weight and before our roof and facade cladding is recycled, it is often first reused.

Certification

SAB products are appropriate in every sustainability philosophy, including cradle-to-cradle, Industrial Flexible Demountable (IFD) and the circular economy. SAB is ISO 9001, ISO 14001, ISO 45001, EN 1090, BS 6001 and CO2 Performance Ladder certified.

BES 6001:2008

BES 6001 is a certification method developed by BRE England that focuses on the responsible sourcing of materials. For producers of construction material, this is the

generally accepted standard for assessing sustainability. It is therefore about our own operational processes, such as purchasing and production, but also about the sustainability of the chain. This can be compared to the more familiar FSC for wood. Aspects including Corporate Social Responsibility also count here. The results of the BES 6001 standard underpin the sustainability calculations for buildings, including BREEAM. SAB-profiel achieved the score of 'good' in this method, which scores additional points in a BREEAM application.

You can download the SAB-profiel's BES 6001 certificate from sabprofiel.com.

BREEAM

To obtain a BREEAM certificate, it is not only the BES 6001 certificate that scores additional points. The Environmental Product Declarations (EPDs) are also important. The most recent EPD can be downloaded from our website. BREEAM is promoted by the Dutch Green Building Council (DGBC) organisation.

You can also find extensive information on sustainability via the sector organisation, 'Bouwen met Staal'.

CO2 Performance ladder

As a company that takes social responsibility, we like to be transparent about our sustainable performance. That is why SAB uses the CO2 Performance Ladder. The CO2 Performance Ladder is a tool that is used to measure how much CO2 companies emit. Here at SAB, we are doing our best to reduce our CO2 emissions and our ambition is to be CO2 neutral.

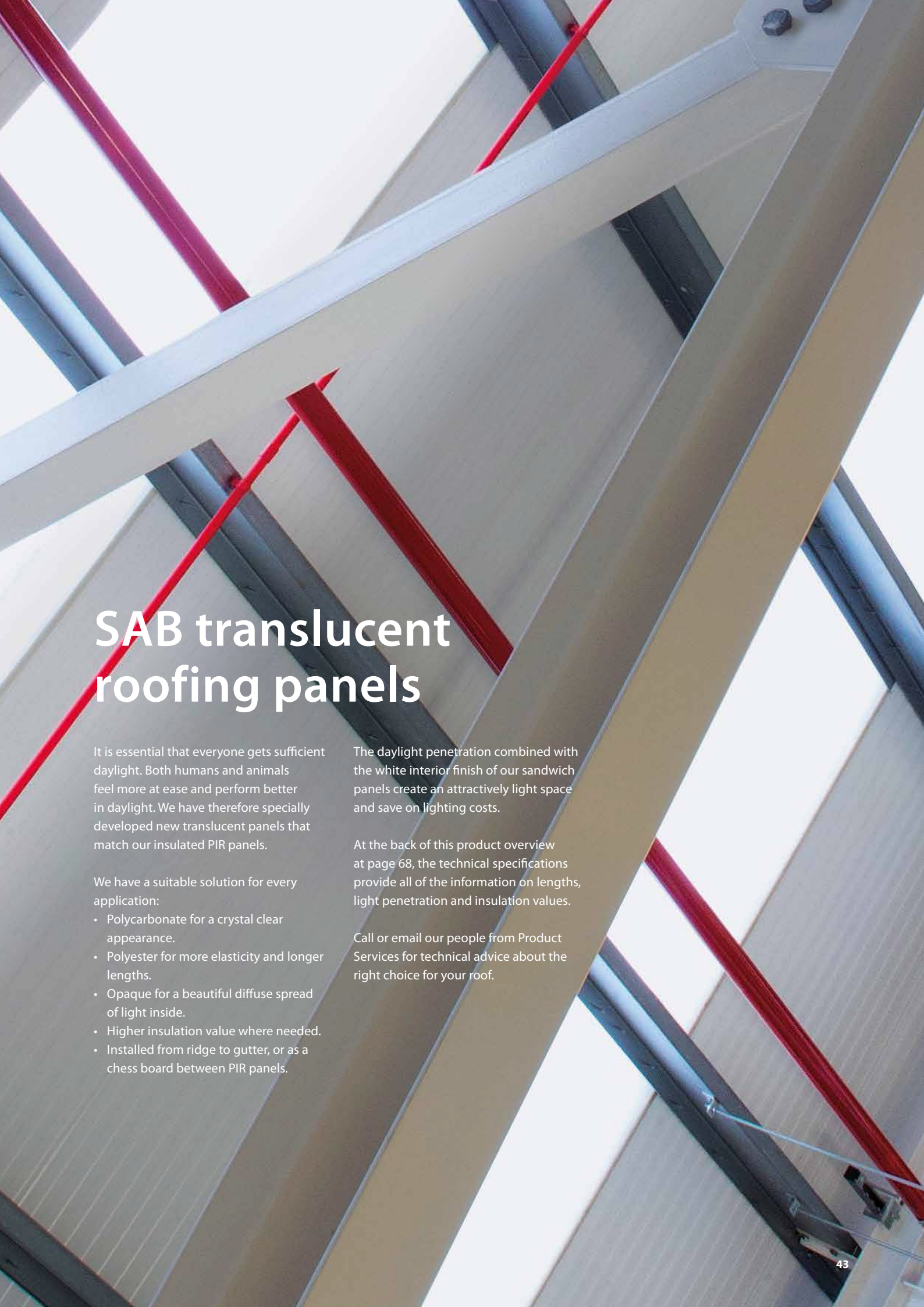
By working with the CO2 performance ladder, we have also been able to formulate concrete sustainability objectives: compared to 2019, we want to reduce our CO2 emissions by more than 90% by 2025. By the end of 2024, we had already achieved 89%.



Project: City district yard Amsterdam South

- › Architect: BDG Architecten
- › Contractor: Bouwbedrijf van Grootheest
- › Installation: Olthof beplatingen
- › Products: SAB 45/900, SAB 158R/750 perfo, SAB 200R/750 perfo, Colorcoat HPS200 Ultra® Pure Grey and Hamlet

DAYLIGHT



SAB translucent roofing panels

It is essential that everyone gets sufficient daylight. Both humans and animals feel more at ease and perform better in daylight. We have therefore specially developed new translucent panels that match our insulated PIR panels.

We have a suitable solution for every application:

- Polycarbonate for a crystal clear appearance.
- Polyester for more elasticity and longer lengths.
- Opaque for a beautiful diffuse spread of light inside.
- Higher insulation value where needed.
- Installed from ridge to gutter, or as a chess board between PIR panels.

The daylight penetration combined with the white interior finish of our sandwich panels create an attractively light space and save on lighting costs.

At the back of this product overview at page 68, the technical specifications provide all of the information on lengths, light penetration and insulation values.

Call or email our people from Product Services for technical advice about the right choice for your roof.

Materials

SAB-profiel produces products from galvanised steel, aluzinc, stainless steel or aluminium, whether or not with a coating.

Colorcoat® pre-finished steel

Pre-finished steel offers you freedom of choice in colours and the best protection against the weather. Colorcoat® offers a range of pre-finished steel products for a wide range of applications. At SAB-profiel you can select from all of these products.

The following pages provide you more information about these quality products.



Galvanised steel

The basis of every precoated steel product is the steel itself. As the basic material SAB-profiel uses continuously galvanised steel, MagiZinc®, Aluzinc and Zinc-Aluminium (Galvalloy®). SAB-profiel supplies these types of steel in the 280, 320 and 350 N/mm² qualities. Dependent on the chosen quality, the thickness of the zinc layer varies between 70 and 275 gr/m².

Note: Uncoated galvanised material (or only coated with an interior coating) is unsuitable for outdoor applications. Aluzinc 185 gr/m² is an exception to this.

Stainless steel

SAB-profiel supplies stainless steel in the thicknesses 0.80 mm in the quality 1.4307. This quality is only available with a 2B-finish and with protective film on both sides.

Project: Chiropractie Staphorst

- › Architect: Courage Architecten
- › Contractor: PHB Deventer
- › Facade Installation: Catsburg Dak-en Gevelbekleding B.V.
- › Products: SAB-Pyramid 50/882, Colorcoat Prisma® Ephyra

Project: Het Anker, Zwolle

- › Architect: MoederscheimMoonen Architects
- › Contractor: VDR bouwgroep Deventer
- › Facade Installation: Olthof Dak & Wandbeplating
- › Products: SAB-Pyramid 50/882, Colorcoat Prisma® Ephyra

Colorcoat®

Colorcoat® precoated steel

The Colorcoat® brand represents quality and expertise in the area of steel building cladding, exclusively from Tata Steel. Colorcoat® offers an extensive range of precoated steel products that build on more than 50 years of experience in developing innovative products and using stringent test procedures and excellent production methods. This precoated steel comes with an extensive package of services, including transferable guarantees of up to 40 years, colour matching and advice and expert guidance in the area of designing steel building cladding.

On www.sabprofiel.nl you can find extensive documentation of each of the Colorcoat® products.

Colorcoat HPS200 Ultra®

Even in maritime and industrial environments, the durability of Colorcoat HPS200 Ultra® is guaranteed. Tata Steel developed the exclusive cladding technology, keeping in mind durability and maximum retention of colour and gloss. The result is the most durable precoated steel product on the market, with unprecedented performance for which 40 years of guarantee is provided.

- Excellent corrosion resistance.
- Unique Scintilla®-embossing, which gives it a modern appearance and ensures an authentic product.
- Available in 35 solid colours and 5 matte colours.
- Based on Repertoire® Colour Consultancy, available in almost every uni colour, from app. 5,000 m².

More information in the Colorcoat HPS200 Ultra® Colour chart.





Project: Jumbo Nieuwegein

- › Architect: Da Vinci Vastgoed bv
- › Contractor: Bouwbedrijf van de Ven
- › Facade installation: Nedicom dak- en geveltechniek
- › Products: Trapezoidal profile SAB 45/900, Sandwich panels SAB W and WB LL and ML, different colours Colorcoat Prisma®, partly via Repertoire®: Orion, Graphite, Ephyra, Bernaise, Signal Yellow, Slate Grey, Cream, Oriole

Colorcoat Prisma®

Guaranteed the most aesthetic solution for facades and roofs. The thickness and the structure of the coating make Colorcoat Prisma® extremely suitable for both facades and roofs. Colorcoat Prisma® offers the best combination of aesthetic quality, long-term performance and durability. Colorcoat Prisma® is the only coating that has a 20-year colour guarantee for all standard colours.

- Excellent corrosion resistance.
- Choose from 27 modern colours, including special metallic colours and matt colours for combinations in the degree of gloss.
- Confidex® guarantee for up to 40 years dependent on inland or coastal or roof or wall with no inspection or maintenance to maintain its validity except when used on a roof or wall that has a Photovoltaic (PV) installation.
- Supports BREEAM & LEED certification.
- The back is marked, to trace its origin.

More information in the Colorcoat Prisma® Colour chart.

Every colour with Repertoire®

As an additional service, Colorcoat® can create a unique colour for your building, for instance, for a striking appearance or if the building must blend in more with the surroundings. Through our Repertoire® colour advice service, Repertoire® can match more or less all uni colours for facade and roofing cladding with each other; when ordering at least 5,000m² we can produce colours based on samples or colour references.

Colorcoat® SDP 50

Colorcoat SDP 50 is a sustainable coating with aesthetic and durable performance. Ideal for many wall and roof applications, such as wall and roof panels, cold roof sheets, or façade cladding.

- Excellent corrosion resistance.
- Available in many solid colours, metallics, and matt colours.
- Outstanding non-diminishing warranty of up to 25 years.



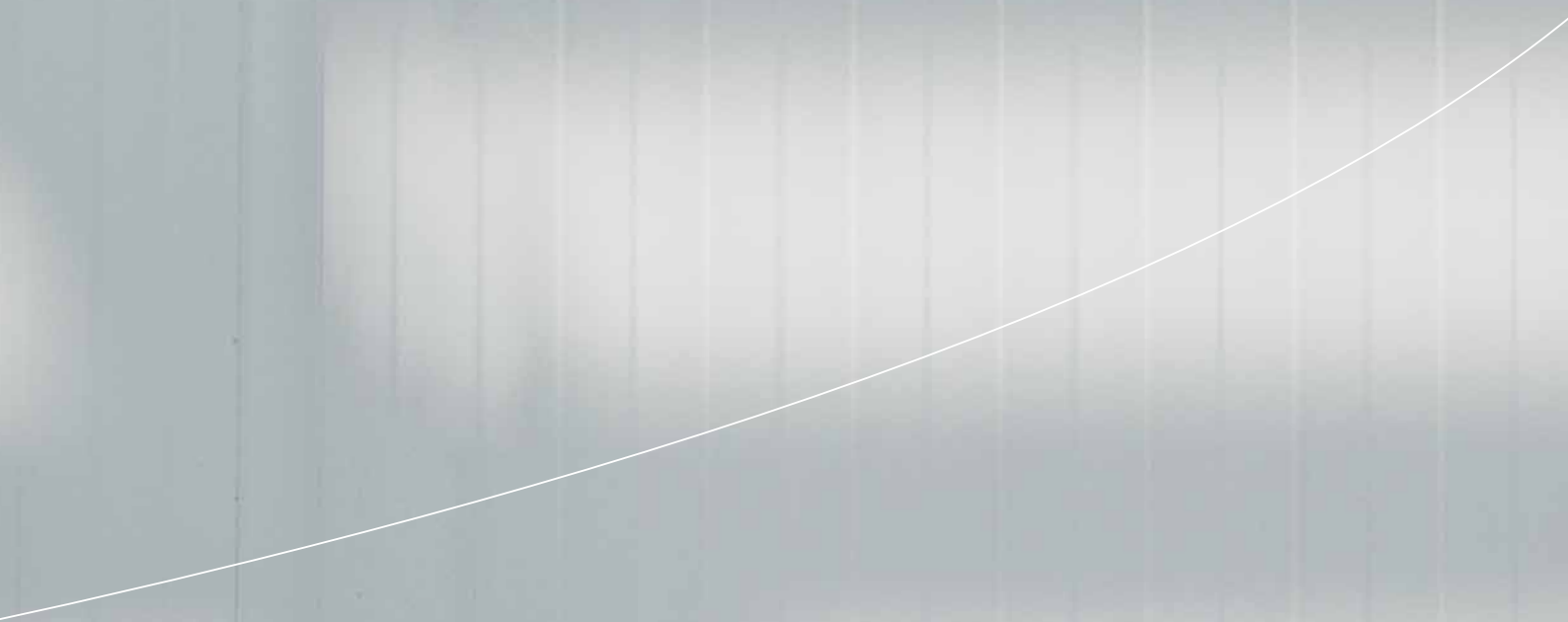
Coatings in brief

On www.sabprofil.com you can find extensive documentation about each of the products.

Product	Application	Properties	Material and layer thickness	Guarantee ¹
Colorcoat HPS200 Ultra®	Extremely suitable for exterior applications, also in maritime and industrial environments.	Durability and maximum retention of colour and gloss, superior robustness and optimum corrosion resistance. Corrosion resistance: RC5 ⁺ UV resistance: Ruv4	Thickness: 200 µm	Exclusive, up to 40-year, Confidex Guarantee, factory cut edges, for industrial and commercial buildings.. Maintenance free during the guarantee period: no annual inspection required.
Colorcoat Prisma®	Extremely suitable for both facades and roofs. Fully supports BREEAM & LEED certification.	The best combination of aesthetic quality, long-term performance and durability. Corrosion resistance: RC5 ⁺ / CPI5 UV resistance: Ruv5	Thickness: 65 µm or 40 µm Basis: Revolutionary 3-layer coating system	Exclusive, up to 40-year, Confidex Guarantee, factory cut edges, for industrial and commercial buildings.. Maintenance free during the guarantee period: no annual inspection required Colour guarantee on standard colours for a maximum of 20 years
Colorcoat® SDP 50	For roof decking, or as facade cladding (when 25 µm systems are insufficiently durable or scratch proof)	Corrosion resistance: RC5 ⁺ UV resistance: Ruv4	Thickness: 50 µm Basis: High Durable Polyester	Guarantee up to 25 years, dependent on location, climate and application
Colorcoat® SDP 35	For single skin roof decking, or as facade cladding in coastal areas (when 25 µm systems are insufficiently durable or scratch proof)	Corrosion resistance: RC4 UV resistance: Ruv4	Thickness: 35 µm Basis: High Durable Polyester	Guarantee up to 12 years, dependent on location, climate and application
Digital Prints	For facade cladding	Corrosion resistance: RC3 UV resistance: Ruv3	Thickness: 30-35 µm Basis: Polyester	Guarantee up to 15 years, dependent on location, climate and application
Colorcoat® PE 25	Facades in non-aggressive outdoor environments.	Smooth coating Corrosion resistance: RC3 UV resistance: Ruv3	Thickness: 25 µm Basis: Polyester	Limited and only for use as exterior facade.
Colorcoat® PE15 Interior coating / KID / DU	Inside: in particular on the inside of sandwich panels and on the visible side of structural liner trays and deep decks.	Due to the coated surface, imperfections are less visible and due to the light colour (when compared to galvanised), you need less lighting and save on the energy bill. Corrosion resistance: n.a.	Thickness 15 µm Basis: Polyester	No guarantee that colours of coils will always be the same
Foodsafe (Advantica® L Control)	In the conditioned food industry: production areas for food, processing areas for meat and fish and in the cold store for fruit and vegetables	Hard, more or less smooth, coating Corrosion resistance: n.a. UV resistance: n.a. Scratch resistance: 4000 g	Thickness: 120 or 150 µm Basis: Laminated hard PVC	
Colorfarm®	Especially for the inside of buildings in which animals are held or in which biomass is processed	Very high corrosion resistance and specific resistance to ammonia and agricultural chemicals Corrosion resistance: RC5 UV resistance: Ruv3	Thickness: 35 µm Basis: High Durable Polyester	15-year guarantee

¹) All guarantees on request

TECHNICAL PRODUCT SPECIFICATIONS





Read this explanation before continuing

In this chapter, you will find the technical specifications of our extensive range of sandwich panels and profiled sheets, classified into application. When choosing the products, take account of aspects including load, safety factors and deformation requirements. For technical information, consult the SAB-profiel Technical Handbook in Dutch or call the Product Services department at +31 (0)30 68 79 700.



Meaning of icons

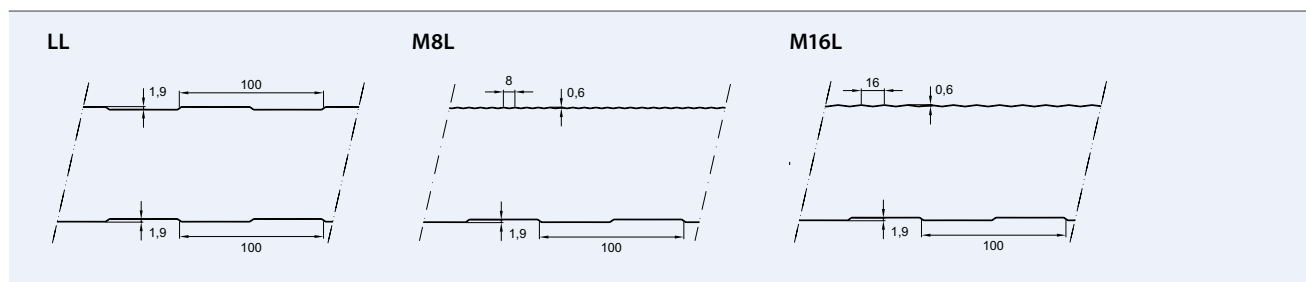
 Steel	 Web perforated broad (P L-B)	 Embossed
 Stainless steel	 Web perforated narrow (P L-S)	 Condensation inhibiting foil
 Fully perforated (P vol)	 Pan perforated (P ZZ)	 Sealant for structural liner tray

Naming convention

W	B	FA	100	.	1000	M8	L	FR
W	—	Application (W = wall/ D = dak (roof))						
B	—	Attachment (B=blind/invisible fixing)						
FA	—	FM Approved						
100	—	Total thickness (mm)						
1000	—	Cover width (mm)						
M8	—	Lining of outer sheet						
L	—	Lining of inner sheet						
FR	—	FR Fire resistance (more information on SAB website)						

A — A side profile

B — B side profile



Load distribution plate

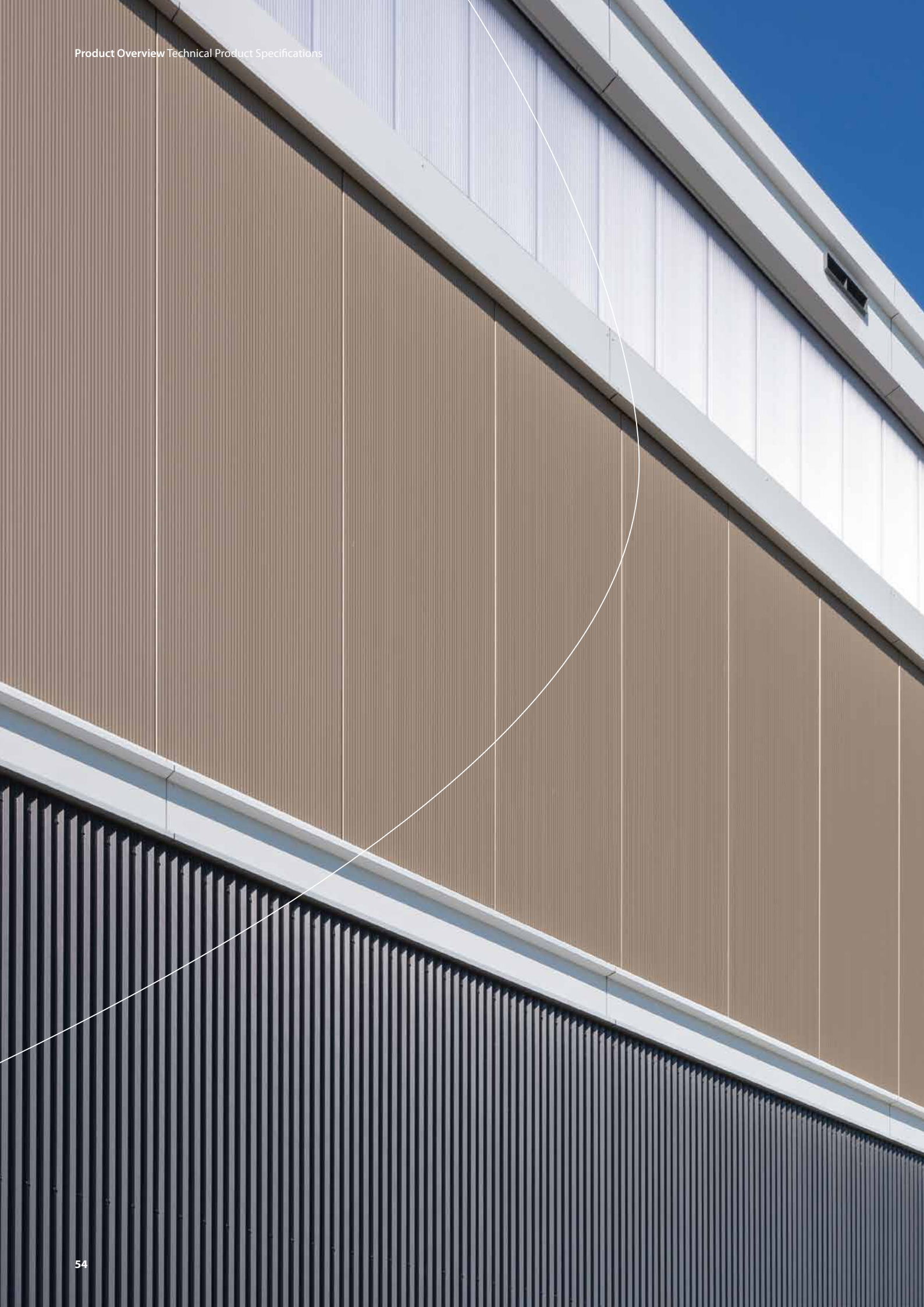
Blind fixing sandwich panels must almost always be installed using at least 2 screws and a load distribution plate on the (intermediate) supporting points. Our technical tables are based on the SAB-profiel load distribution plate. Specify the required numbers so that we can deliver them with the panels to the site.



FM Approved

FM Global is the world's largest insurer of industrial buildings. To limit the risk of loss, FM Global has its own test facilities in America. Here building materials are certified with respect to wind, hail and fire.





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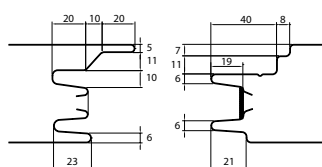
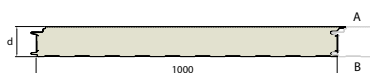
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Facade / Wall panels / Blind fixing



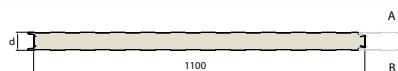
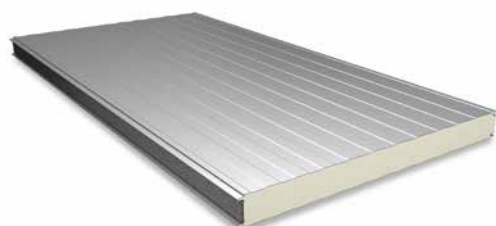
Type	Lining			Thickness	Weight •	U	Max. length
	LL	M8L	M16L	mm	kg/m ²	W/m ² K	m
SAB WB(-FA) 60.1000	o	o	o	60	10.5	0.36	16.0
SAB WB(-FA) 80.1000	o	o	o	80	11.3	0.27	16.0
SAB WB(-FA) 100.1000	o	o	o	100	12.1	0.21	16.0
SAB WB(-FA) 120.1000	o	o	o	120	12.9	0.18	16.0
SAB WB(-FA) 140.1000	o	o	o	140	13.7	0.15	16.0
SAB WB 100.1000 FR**	o	o	o	100	12.1	0.21	16.0
SAB WB 120.1000 FR**	o	o	o	120	12.9	0.18	16.0
SAB WB 140.1000 FR**	o	o	o	140	13.7	0.15	16.0
SAB-Carrier WB 60.1000		o		60	11.7	0.36	16.0
SAB-Carrier WB 80.1000		o		80	12.5	0.27	16.0
SAB-Carrier WB 100.1000		o		100	13.3	0.21	16.0
SAB-Carrier WB 120.1000		o		120	14.1	0.18	16.0
SAB-Carrier WB 140.1000		o		140	14.9	0.15	16.0
SAB-Carrier WB 100.1000 FR**	o			100	13.3	0.21	16.0
SAB-Carrier WB 120.1000 FR**	o			120	14.1	0.18	16.0
SAB-Carrier WB 140.1000 FR**	o			140	14.9	0.15	16.0

•) Weight with steel sheet thicknesses 0.50/0.40 or 0.63/0.40 (Carrier) mm. Other thicknesses also possible.

**) For FR explanation and possibilities see SAB website.

***) Only offered in Benelux countries.

Facade / Wall panels / Through fixing



SAB W 40 - 100



SAB W 120 - 150

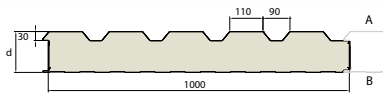
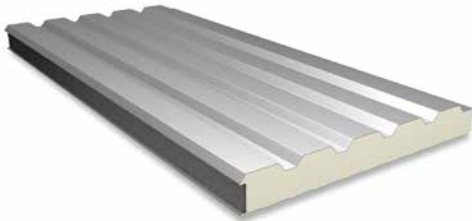
Type	Lining			Thickness	Weight •	U	Max. length
	LL	M8L	M16L	mm	kg/m ²	W/m ² K	m
SAB W(-FA) 40.1100	o	o	o	40	9.1	0.51	16.0
SAB W(-FA) 60.1100	o	o	o	60	9.9	0.34	16.0
SAB W(-FA) 80.1100	o	o	o	80	11.0	0.26	16.0
SAB W(-FA) 100.1100	o	o	o	100	11.8	0.21	16.0
SAB W(-FA) 120.1100	o	o	o	120	12.6	0.17	16.0
SAB W(-FA) 150.1100	o	o	o	150	13.8	0.14	16.0
SAB W 100.1100 FR**	o	o	o	100	11.8	0.21	16.0
SAB W 120.1100 FR**	o	o	o	120	12.6	0.17	16.0
SAB W 150.1100 FR**	o	o	o	150	13.8	0.14	16.0
SAB-Carrier W 40.1100		o		40	10.2	0.51	16.0
SAB-Carrier W 60.1100		o		60	11.0	0.34	16.0
SAB-Carrier W 80.1100		o		80	12.1	0.26	16.0
SAB-Carrier W 100.1100		o		100	12.9	0.21	16.0
SAB-Carrier W 120.1100		o		120	13.7	0.17	16.0
SAB-Carrier W 150.1100		o		150	14.9	0.14	16.0

•) Weight with steel sheet thicknesses 0.50/0.40 or 0.63/0.40 (Carrier) mm. Other thicknesses also possible.

**) For FR explanation and possibilities see SAB website.

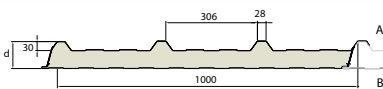
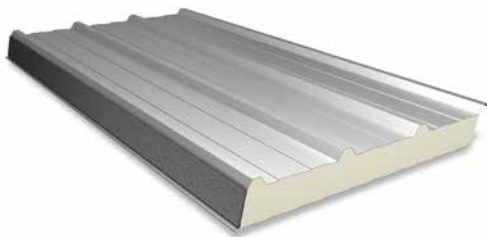
***) Only offered in Benelux countries.

Facade / Wall panels / Trapezium



Type	Lining	Thickness •	Weight ••	U	Max. length •••
		mm	kg/m ²	W/m ² K	m
SAB W(-FA) 95.1000	TL	65/95	11.4	0.26	18.0
SAB W(-FA) 135.1000	TL	105/135	13.0	0.17	18.0
SAB W 95.1000 FR••••	TL	65/95	11.4	0.26	18.0
SAB W 135.1000 FR••••	TL	105/135	13.0	0.17	18.0
SAB-Carrier W 95.1000•••••	TL	65/95	12.6	0.26	18.0
SAB-Carrier W 135.1000•••••	TL	105/135	14.2	0.17	18.0

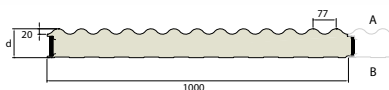
-) Core thickness / Total thickness
-) Weight with steel sheet thicknesses 0.50/0.40 or 0.63/0.40 (Carrier) mm, other thicknesses also possible.
-) Maximum recommended length, longer lengths in consultation.
-) For FR explanation and possibilities see SAB website.
-) Only offered in Benelux countries.



Type	Lining	Thickness •	Weight ••	U	Max. length
		mm	kg/m ²	W/m ² K	m
SAB D(-FA) 90.1000 FR •••	TL	60/90	10.6	0.32	25.0
SAB D(-FA) 110.1000 FR •••	TL	80/110	11.4	0.25	25.0
SAB D(-FA) 130.1000 FR •••	TL	100/130	12.2	0.20	25.0
SAB D(-FA) 160.1000 FR •••	TL	130/160	13.3	0.16	25.0

-) Core thickness / Total thickness
-) Weight with steel sheet thicknesses 0.50/0.40 mm, other thicknesses also possible.
-) For FR explanation and possibilities see SAB website.

Facade / Wall panels / Sinus

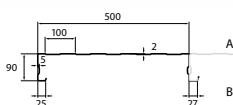


Type	Lining	Thickness •	Weight ••	U	Max. length •••
		mm	kg/m ²	W/m ² K	m
SAB W 120.1000	SL	98/118	14.90	0.21	16.0
SAB W-FA 100.1000	SL	78/98	14.10	0.25	16.0
SAB W-FA 120.1000	SL	98/118	14.90	0.21	16.0

-) Core thickness / Total thickness
-) Weight with steel sheet thicknesses 0.63/0.50 mm, other thicknesses also possible.
-) Maximum recommended length, longer lengths in consultation.

Facade / Wall cladding / Liner trays

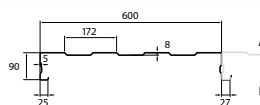
SAB B90/500



mm	kg/m ²
0.75	8.83
0.88	10.36
1.00	11.78
1.13	13.31
1.25	14.72
1.50	17.66

Recommended maximum length: 18.3 m

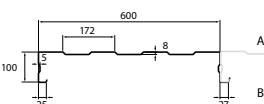
SAB B90/600



mm	kg/m ²
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 / Recommended maximum length: 18.3 m

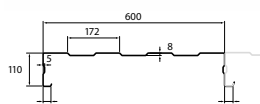
SAB B100/600



mm	kg/m ²
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 / Recommended maximum length: 18.3 m

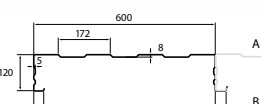
SAB B110/600



mm	kg/m ²
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 / Recommended maximum length: 18.3 m

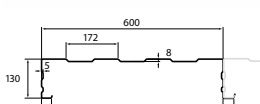
SAB B120/600



mm	kg/m ²
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 / Recommended maximum length: 18.3 m

SAB B130/600

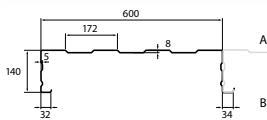


mm	kg/m ²
0.75	9.42
0.88	11.05
1.00	12.56
1.13	14.19
1.25	15.70
1.50	18.84

Minimum length: 1.8 m / Recommended maximum length: 18.3 m

Facade / Wall cladding / Liner trays

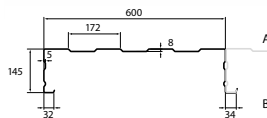
SAB B140/600



mm	kg/m ²
0.75	9.71
0.88	11.40
1.00	12.95
1.13	14.64
1.25	16.19
1.50	19.43

Recommended maximum length: 18.3 m

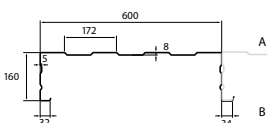
SAB B145/600



mm	kg/m ²
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 / Recommended maximum length: 18.3 m

SAB B160/600



mm	kg/m ²
0.75	10.01
0.88	11.74
1.00	13.35
1.13	15.08
1.25	16.68
1.50	20.02

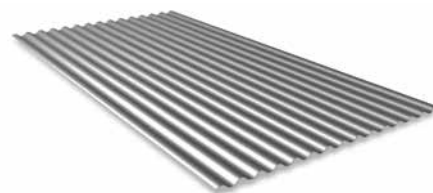
Minimum length: 1.8 m / Recommended maximum length: 18.3 m

Read more about acoustics / perfo on the SAB website.
See also pages 38-39.

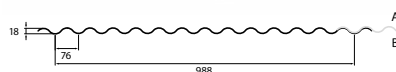
Other Liner trays are possible on request.

Facade / Profiled cladding / Sinusoidal

SAB 18/988 (2 overlaps)

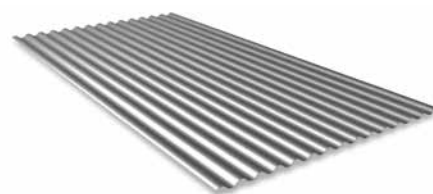


mm	kg/m ²
0.63	6.26
0.75	7.45
0.88	8.74
1.00	9.93

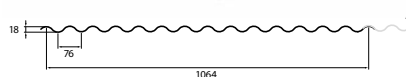


Maximum length: 15.23 m

SAB 18/1064 (1 overlap)

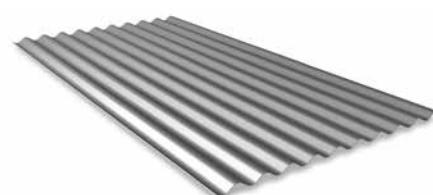


mm	kg/m ²
0.63	5.81
0.75	6.92
0.88	8.12
1.00	9.22

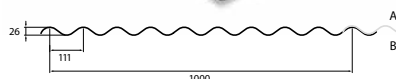


Maximum length: 15.23 m

SAB 27/1000

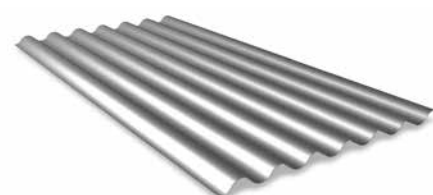


mm	kg/m ²
0.63	6.18
0.75	7.36
0.88	8.64
1.00	9.81

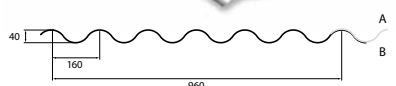


Maximum length: 15.23 m

SAB 42/960



mm	kg/m ²
0.75	7.67
0.88	8.99
1.00	10.22



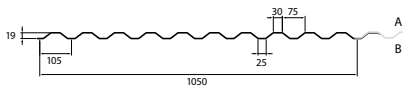
Maximum length: 15.23 m

Facade / Profiled sheets / Trapezium

SAB 19/1050



mm	kg/m ²
0.63	5.89
0.75	7.01
0.88	8.22
1.00	9.35

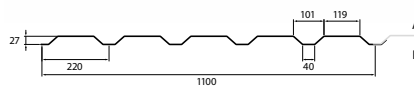


Maximum length: 15.6 m

SAB 30/1100



mm	kg/m ²
0.63	5.62
0.75	6.69
0.88	7.85
1.00	8.92

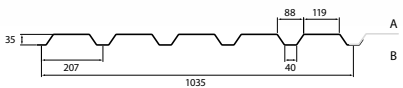


Maximum length: 15.6 m

SAB 35/1035



mm	kg/m ²
0.63	5.97
0.75	7.11
0.88	8.34
1.00	9.48

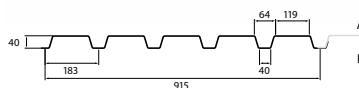


Maximum length: 15.6 m

SAB 40/915



mm	kg/m ²
0.63	6.76
0.75	8.04
0.88	9.44
1.00	10.72

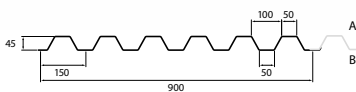


Maximum length: 15.23 m

SAB 45/900



mm	kg/m ²
0.63	6.87
0.75	8.18
0.88	9.59
1.00	10.90



Maximum length: 15.23 m

SAB 50/1000



mm	kg/m ²
0.63	6.18
0.75	7.36
0.88	8.64
1.00	9.81



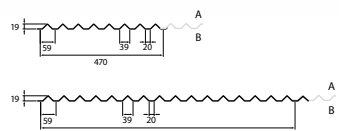
Maximum length: 15.6 m

Design profiles Essential

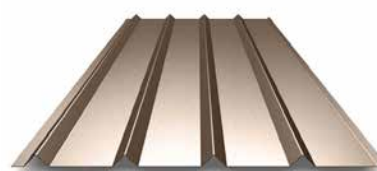
SAB-Pyramid 19/470 - 19/944



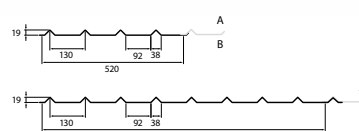
mm	kg/m ²
0.63	6.58
0.75	7.83
0.88	9.19



SAB-Pyramid 19/520 - 19/1040



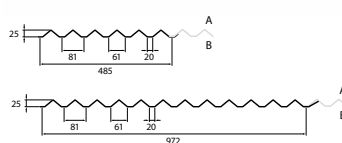
mm	kg/m ²
0,75	7,08
0,88	8,30



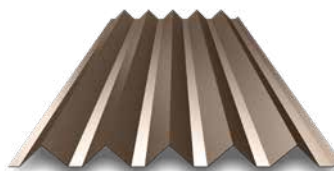
SAB-Pyramid 25/485 - 25/972



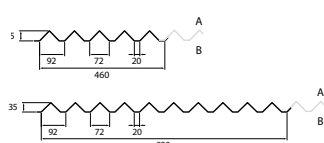
mm	kg/m ²
0.63	6.34
0.75	7.55
0.88	8.86



SAB-Pyramid 37/460 - 37/920



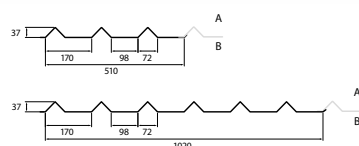
mm	kg/m ²
0,63	6,72
0,75	8,00
0,88	9,39



SAB-Pyramid 37/510 - 37/1020



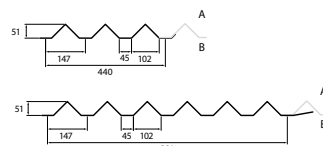
mm	kg/m ²
0.75	7.22
0.88	8.47



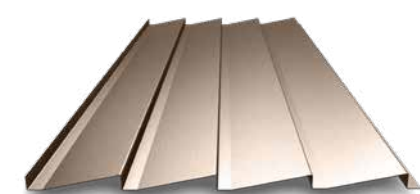
SAB-Pyramid 50/440 - 50/881



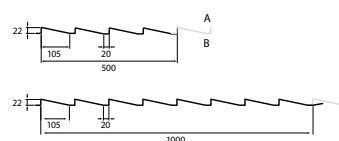
mm	kg/m ²
0,63	6,99
0,75	8,32
0,88	9,77



SAB-Tribune 22/500 - 22/1000



mm	kg/m ²
0.63	6.18
0.75	7.36
0.88	8.64



Version 22/500 maximum length 7.5 m and 22/1000 maximum length 6.0 m

For all SAB pyramids with a short (working) width and a maximum length of 7.5 m and a long (working) width and a maximum length of 6.0 m.

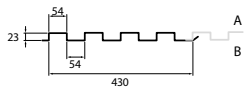
Other tip profiles are also available upon request.

Design profiles Allure

SAB-Block 23/430



mm	kg/m ²
0.63	7.15
0.75	8.52
0.88	9.99

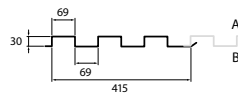


Maximum length: 6 m

SAB-Block 30/415



mm	kg/m ²
0.63	7.41
0.75	8.82
0.88	10.35

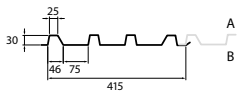


Maximum length: 6 m

SAB-Merlon 30/415-75

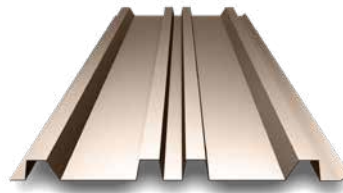


mm	kg/m ²
0.63	7.41
0.75	8.82
0.88	10.35

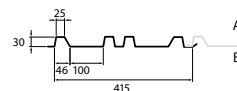


Maximum length: 6 m

SAB-Merlon 30/415-100



mm	kg/m ²
0.63	7.41
0.75	8.82
0.88	10.35

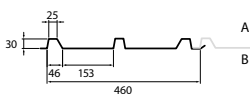


Maximum length: 6 m

SAB-Merlon 30/460

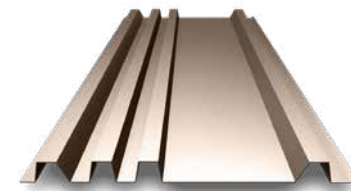


mm	kg/m ²
0.75	7.96
0.88	9.34

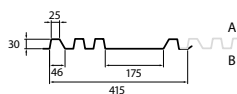


Maximum length: 6 m

SAB-Merlon 30/415-175



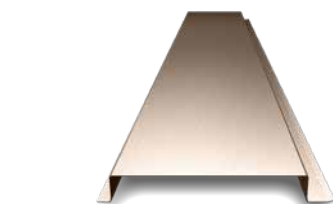
mm	kg/m ²
0.75	8.82
0.88	10.35



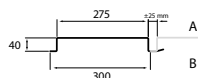
Maximum length: 6 m

Designprofile Allure

SAB-PZ 40/300



mm	kg/m ²
0.75	8.18
0.88	9.59



Maximum length: 7.5 m

SAB-Robusta 43/440 A



mm	kg/m ²
0.63	6.99
0.75	8.36
0.88	9.81

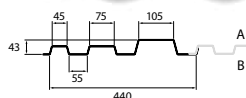


Maximum length: 7.5 m

SAB-Robusta 43/440 B



mm	kg/m ²
0.63	6.99
0.75	8.36
0.88	9.81

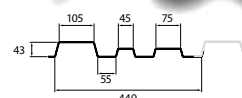


Maximum length: 7.5 m

SAB-Robusta 43/440 C



mm	kg/m ²
0.63	6.99
0.75	8.36
0.88	9.81

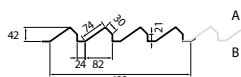


Maximum length: 7.5 m

SAB-Vinex 42/423



mm	kg/m ²
0.63	7.27
0.75	8.66
0.88	10.16

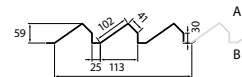


Maximum length: 6 m

SAB-Vinex 59/413

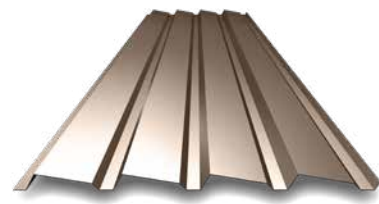


mm	kg/m ²
0.63	7.45
0.75	8.87
0.88	10.40

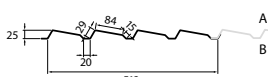


Maximum length: 6 m

SAB-Wave 25/512

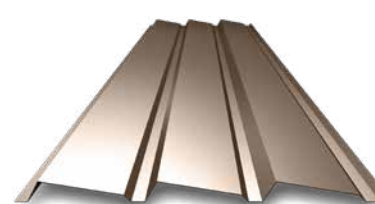


mm	kg/m ²
0.63	6.01
0.75	7.15
0.88	8.39

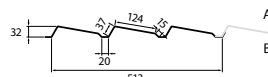


Maximum length: 7.5 m

SAB-Wave 32/513



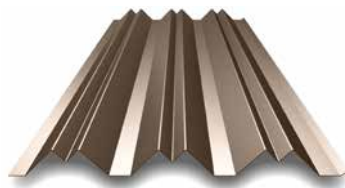
mm	kg/m ²
0.63	6.00
0.75	7.14
0.88	8.38



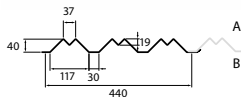
Maximum length: 7.5 m

Designprofile Architect

SAB-Diamond® 40/440

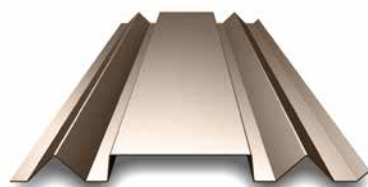


mm	kg/m ²
0.63	6.99
0.75	8.36
0.88	9.81

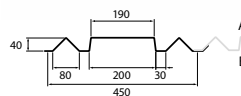


Maximum length: 7.5 m

SAB-Pagode® 40/450

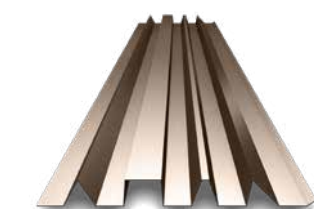


mm	kg/m ²
0.63	6.84
0.75	8.18
0.88	9.59

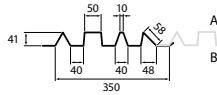


Maximum length: 7.5 m

SAB-Salsa 40/350



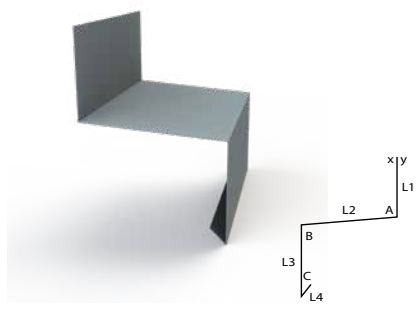
mm	kg/m ²
0.63	8.79
0.75	10.46
0.88	12.28



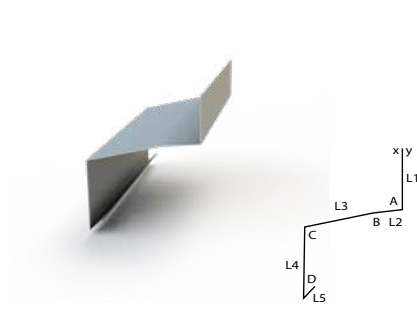
Maximum length: 6 m

Flashings wall / Flashings roof

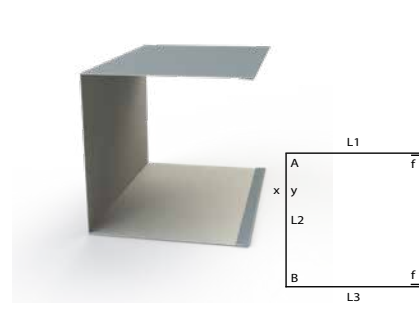
Cillflashing 1



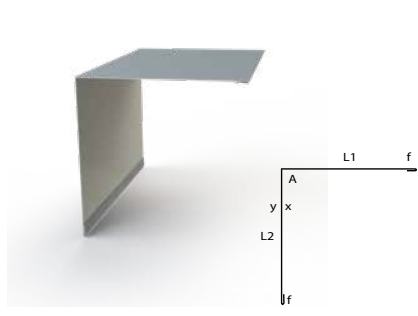
Cillflashing2



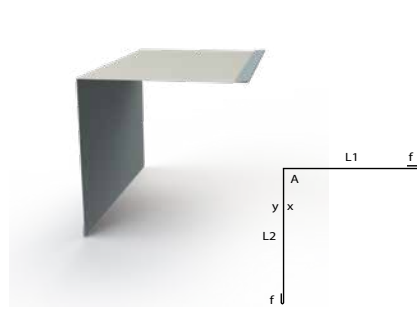
U-profile



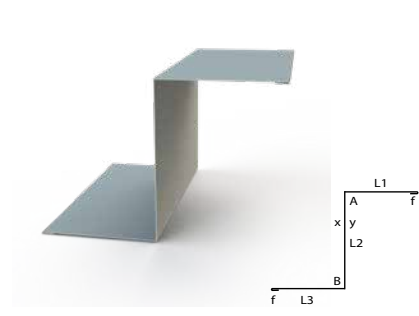
Cornerflashing outside



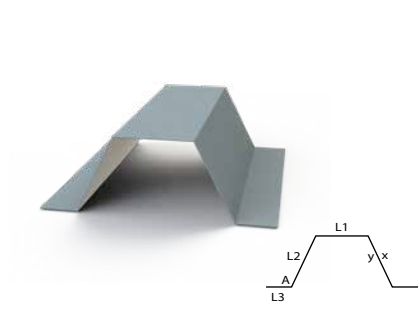
Cornerflashing inside



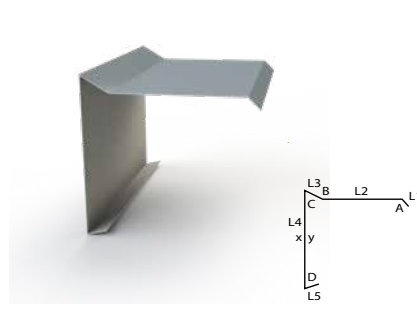
Z-profile



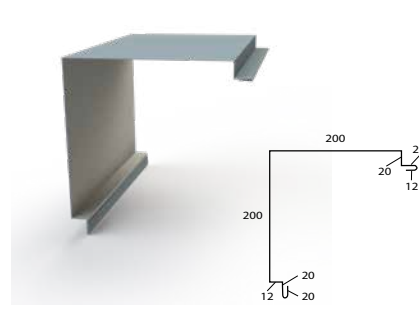
Omega-profile



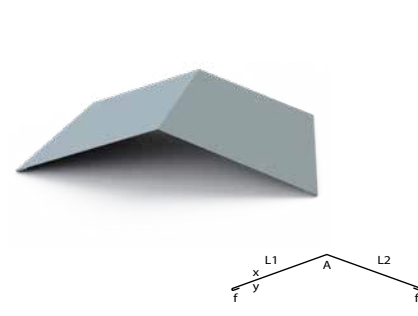
Verge component 1



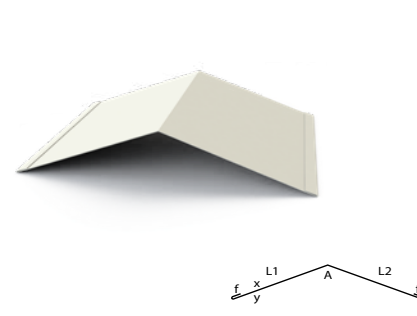
Verge component 2



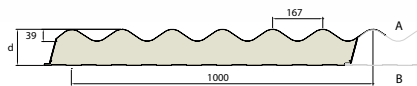
Ridge component outside



Ridge component inside



Roof panels / Sinusoidal

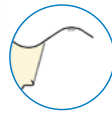


Type	Lining	Thickness •	Weight ••	Rc	U	Length
		mm	kg/m ²	m ² K/W	W/m ² K	m
SAB D 83.1000	SL	43/83	10.7	2.68	0.35	25
SAB D 120.1000	SL	80/120	12.1	4.42	0.22	25
SAB D 160.1000	SL	120/160	13.7	6.29	0.15	25

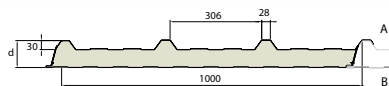
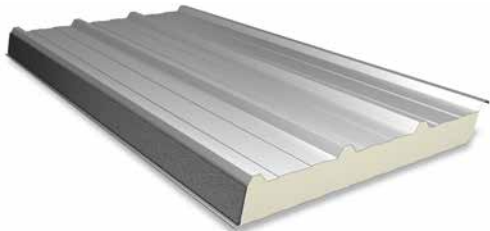
•) Core thickness / Total thickness

••) Weight with steel sheet thicknesses 0.50/0.40 mm, other thicknesses also possible.

•••) Supplied as standard with sealing tape



Roof panels / Trapezium

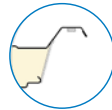


Type	Lining	Thickness •	Weight ••	Rc	U	Length
		mm	kg/m ²	m ² K/W	W/m ² K	m
SAB D(-FA) 70.1000	TL	40/70	9.8	2.01	0.46	25
SAB D(-FA) 90.1000	TL	60/90	10.6	2.94	0.32	25
SAB D(-FA) 110.1000	TL	80/110	11.4	3.88	0.25	25
SAB D(-FA) 130.1000	TL	100/130	12.2	4.81	0.20	25
SAB D(-FA) 160.1000	TL	130/160	13.3	6.21	0.16	25

•) Core thickness / Total thickness

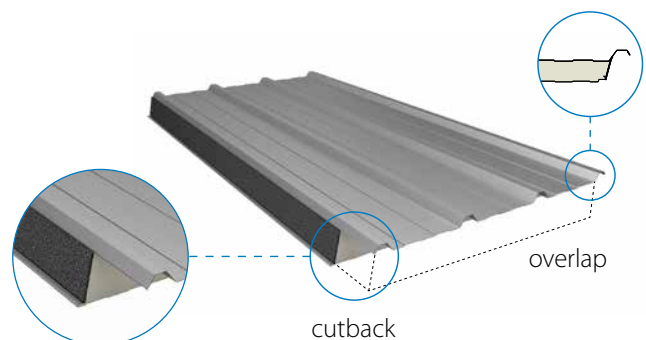
••) Weight with steel sheet thicknesses 0.50/0.40 mm, other thicknesses also possible.

•••) Supplied as standard with sealing tape



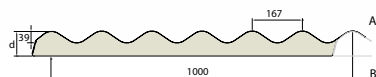
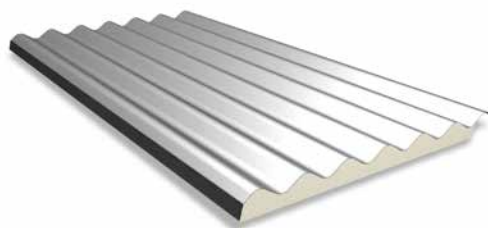
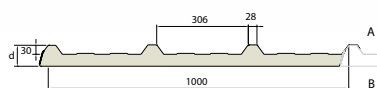
Cutback on roof panels

In certain circumstances it can be desirable to remove the foam and inner plating from the end of a roofing panel. For example, at an overlap due to the roof slope exceeding the maximum length of the panel or for drainage into a gutter. In these cases, SAB-profiel can apply a cutback (removal of the foam and inner plate) from factory. This is possible for all roofing panels from our factory in Geldermalsen, including the Eco panels, with a minimum length of 2.800 mm + length of the cutback. On request, the cutback can measure between 50 mm and 300 mm. Note that the direction of assembly, from left to right (left overlap) or from right to left (right overlap), makes a difference. Looking from the ground to the roof.



Example cutback assembly from right

Roof panels / Eco



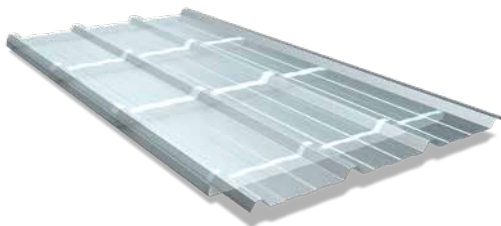
Type	Lining	Thickness •	Weight ••	Rc	U	Length
		mm	kg/m ²	m ² K/W	W/m ² K	m
SAB D 70.1000	TG	40/70	6.6	2.01	0.46	18
SAB D 83.1000	SG	43/83	7.5	2.68	0.35	18

•) Core thickness / Total thickness

••) Weight with outer sheet 0.50 mm and aluminium film < 0.01 mm inside, other thicknesses also possible.

•••) No aesthetic guarantee is provided for the aluminium film on the interior side.

Translucent roof panels

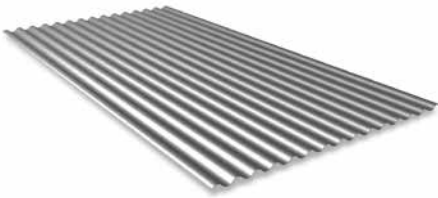


Type	Lining		Thickness	U	Length	Translucency
	SL	TL	mm	W/m ² K	m	%
SAB-Vision	o	o	40-120*	1.51 - 0.94	8.5	68
SAB-Victory	o	o	40-120*	2.7	8.5	68
SAB-Vista PC		o	40	0.96	5.0	25

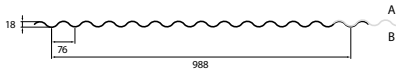
* Available for panels with core thicknesses between the indicated values.

Roof / Single skin / Sinusoidal

SAB 18/988

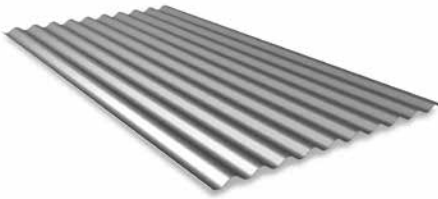


mm	kg/m ²
0.63	6.26
0.75	7.45
0.88	8.74
1.00	9.93

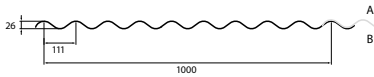


Maximum length: 15.23 m

SAB 27/1000



mm	kg/m ²
0.63	6.18
0.75	7.36
0.88	8.46
1.00	9.81

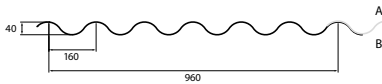


Maximum length: 15.23 m

SAB 42/960



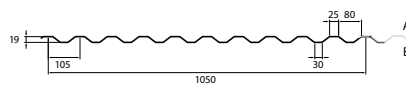
mm	kg/m ²
0.75	7.67
0.88	8.99
1.00	10.22



Maximum length: 15.23 m

Roof / Single skin / Trapezium

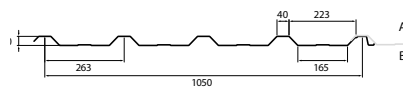
SAB 19KD/1050



mm	kg/m ²
0.63	5.89
0.75	7.01
0.88	8.22
1.00	9.35

Maximum length: 15.6 m

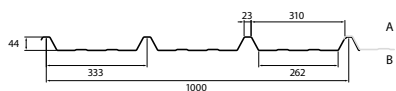
SAB 30KD/1050-S



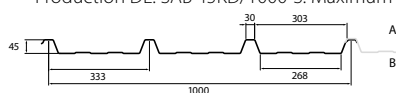
mm	kg/m ²
0.63	5.89
0.75	7.01
0.88	8.22
1.00	9.35

Maximum length: 15.6 m

SAB 45KD/1000-S - SAB 45KD/1000



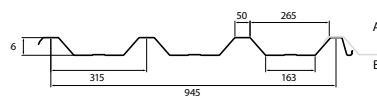
Production DE: SAB 45KD/1000-S. Maximum length: 21,9 m



Production NL: SAB 45KD/1000. Maximum length: 15,6 m

mm	kg/m ²
0.63	6.18
0.75	7.36
0.88	8.64
1.00	9.81

SAB 58KD/945-S



mm	kg/m ²
0.63	6.54
0.75	7.79
0.88	9.14
1.00	10.38

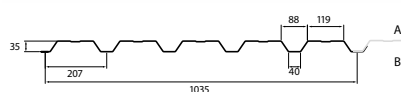
Maximum length: 15.6 m

Roof / Deep decking / Trapezium

SAB 35R/1035



mm	kg/m ²
0.75	7.11
0.88	8.34
1.00	9.48
1.25	11.85



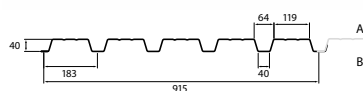
Maximum length: 15.2 m

Production NL

SAB 40R/915



mm	kg/m ²
0.75	8.04
0.88	9.44
1.00	10.72
1.25	13.41



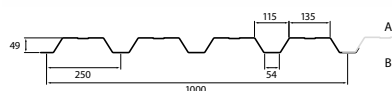
Maximum length: 15.0 m

Production NL

SAB 50R/1000



mm	kg/m ²
0.75	7.36
0.88	8.64
1.00	9.81
1.25	12.27



Maximum length: 15.2 m

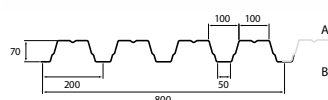
Production NL

Roof / Deep decking / Trapezium

SAB 70R/800



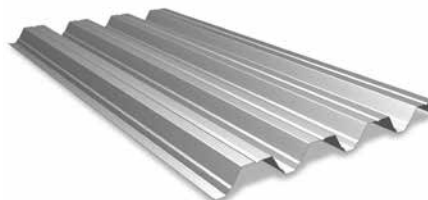
mm	kg/m ²
0.75	9.20
0.88	10.79
1.00	12.27
1.25	15.33



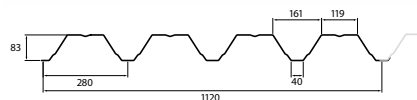
Maximum length: 24.5 m

Production NL

SAB 85R/1120



mm	kg/m ²
0.75	7.89
0.88	9.25
1.00	10.51
1.13	11.88
1.25	13.14
1.50	15.77

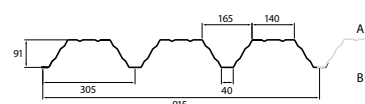

Maximum length: 24.6 m
Maximum length: 25.4 m

Production DE
Production NL

SAB 89R/915



mm	kg/m ²
0.88	9.44
1.00	10.72
1.25	13.41
1.50	16.09



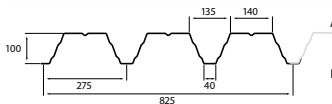
Maximum length: 21.9 m

Production DE

SAB 100R/825



mm	kg/m ²
0.75	8.92
0.88	10.47
1.00	11.89
1.25	14.87
1.50	17.84



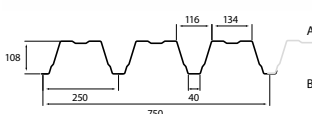
Maximum length: 21.9 m

Production DE

SAB 106R+/750



mm	kg/m ²
0.75	9.81
0.88	11.51
1.00	13.08
1.25	16.35
1.50	19.63



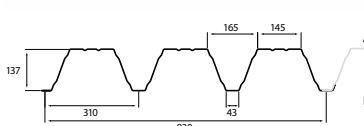
Maximum length: 24.5 m

Production NL

SAB (FA) 135R/930 (350)



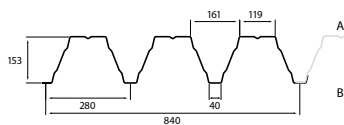
mm	kg/m ²
0.75	9.50
0.88	11.14
1.00	12.66
1.13	14.31
1.25	15.83
1.50	18.99


Maximum length: 24.6 m
Maximum length: 25.4 m
Available with FM Approval Certificate (not for Perfo)

Production DE
Production NL

Roof / Deep decking / Trapezium

SAB (FA) 153R/840 (350)

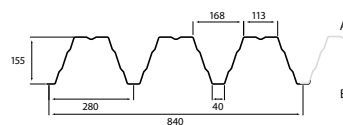
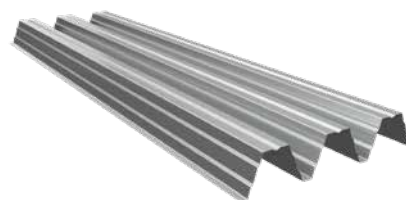


mm	kg/m ²
0.75	10.51
0.88	12.34
1.00	14.02
1.13	15.84
1.25	17.52
1.50	21.03

Maximum length: 27.5 m
Available with FM Approval Certificate (not for Perfo)

Production NL

SAB 155R/840 (350)

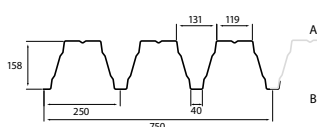
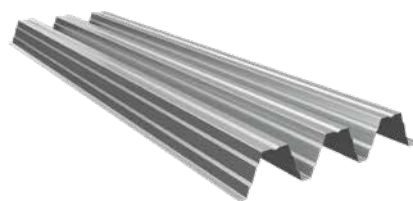


mm	kg/m ²
0.75	10.51
0.88	12.34
1.00	14.02
1.13	15.84
1.25	17.52
1.50	21.03

Maximum length: 24.6 m

Production DE

SAB (FA) 158R/750 (350)

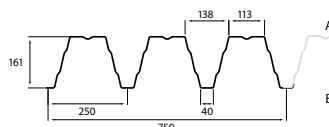
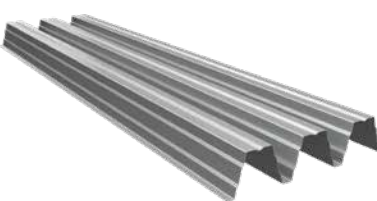


mm	kg/m ²
0.75	11.78
0.88	13.82
1.00	15.70
1.13	17.74
1.25	19.63
1.50	23.55

Maximum length: 27.5 m
Available with FM Approval Certificate (not for Perfo)

Production NL

SAB 160R/750 (350)

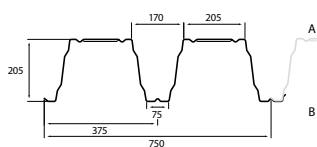


mm	kg/m ²
0.75	11.78
0.88	13.82
1.00	15.70
1.13	17.74
1.25	19.63
1.50	23.55

Maximum length: 24.6 m

Production DE

SAB (FA) 200R/750 (350)

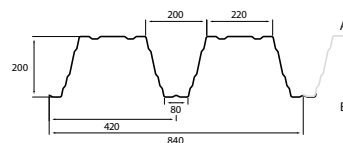
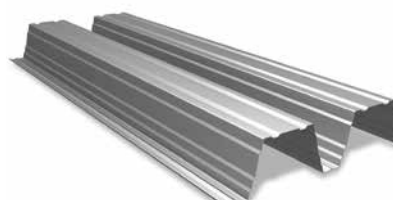


mm	kg/m ²
0.75	11.78
0.88	13.82
1.00	15.70
1.13	17.74
1.25	19.63
1.50	23.55

Maximum length: 27.5 m
Available with FM Approval Certificate (not for Perfo)

Production NL

SAB 200R/840 (350)



mm	kg/m ²
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: 24.6 m

Production DE

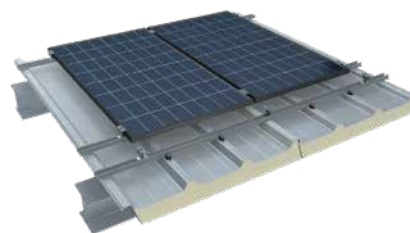
SAB Sandwich panels are ready for solar panels

The trend is clear: solar panels on roofs and façades are on the rise. They are essential for sustainable and low-carbon energy production. However, PV installations also place higher demands on the load-bearing capacity and robustness of the building envelope. SAB sandwich panels offer designers and building owners this certainty. They meet the highest requirements for robustness and load capacity.

Solar panels add extra weight and place additional loads on the façades and roofs on which they are installed. In addition, an aggressive microclimate develops behind PV modules because dirt accumulates and is not washed away by rain. This is why a robust and reliable coating system—such as Colorcoat SDP 50, Colorcoat Prisma or Colorcoat HPS200 Ultra—is necessary for roof and façade elements. Solar panels can be mounted safely, sustainably and reliably on SAB sandwich panels. The functionality, usability and lifespan of the panels remain fully intact.

Various systems for PV integration available

For mounting PV modules on SAB sandwich roof panels, we refer to the system provided by manufacturer K2. This system has been approved by us after extensive practical testing. During installation, the tested values for structural design must be followed. For static calculations, the supplier provides support with calculations based on experimentally determined resistance values. SAB is also happy to assist you in calculating the optimal span and load-bearing capacity of our products.



As a customer, you are completely free to choose your preferred system to secure your PV installations safely and sustainably, ensuring long-lasting performance. By installing PV panels on sandwich panels, you combine two sustainable solutions: you have an insulated roof and you benefit from inexpensive energy.

Want to know more?

We are happy to advise you on the possibilities — please contact us.

SAB-GreenBox – the smart green roof solution

The SAB-GreenBox is an innovative, in-house developed green roof solution, specially designed for SAB sandwich roof panels. The system consists of a patented green-roof module (GreenBox), elegant edge profiles, accessories for a neat edge finish, and a sliding-protection profile for roofs with a pitch greater than 10°.



Flexible and versatile

The GreenBox is available in two variants:

- **Pre-grown (Plantile):** ready for use immediately and green from day one.
- **Unplanted:** to be filled and planted on site according to your own preferences.

In collaboration with PlantileR, we offer ready-made, pre-grown boxes. These

modules combine convenience with optimal performance thanks to an integrated water reservoir and drainage system.

The unplanted version is equipped with smart connecting tabs on two sides. This allows several boxes to be easily linked together to create a continuous green area. In the initial phase, the boxes are held in place against wind uplift solely by their own weight in the corners. Once the box is filled, no additional measures are required — the system anchors itself.

Advantages of a green roof solution:

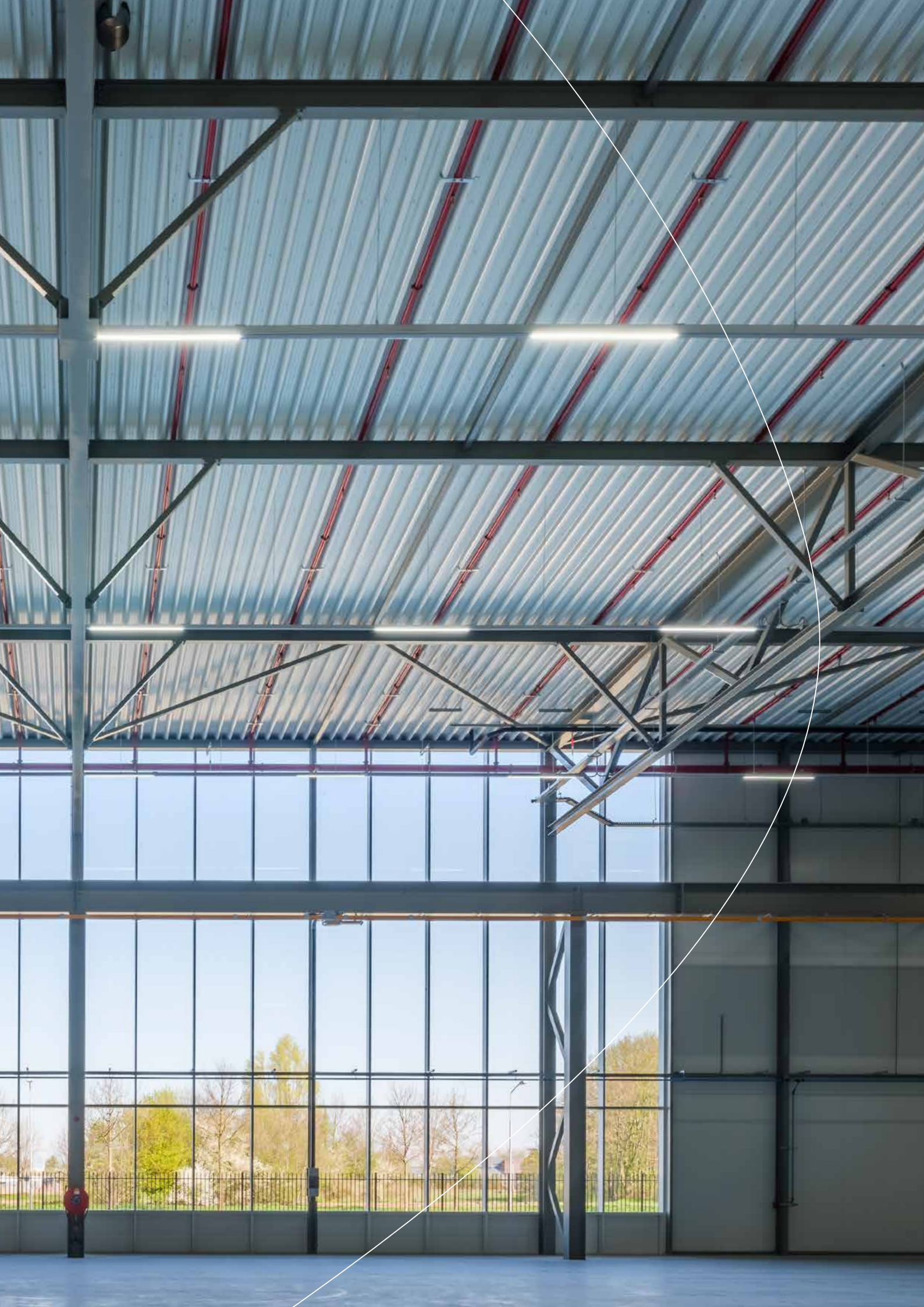
- **Water retention:** approx. 20–65 litres/m²
- **Reduction and delay of water runoff:**
- A discharge coefficient Cs = 0.6 means

that calculated rainwater drainage can be reduced by approx. 40%

- **Evaporation:** contributes to a better microclimate
- **Cooling:** evaporative cooling reduces heat buildup on roof surfaces
- **CO₂ reduction:** conversion of CO₂ into oxygen
- **Noise reduction**
- **Habitat for biodiversity:** valuable environment for insects and small animals
- **Aesthetics:** blooming natural beauty

Want to know more?

We are happy to advise you on the possibilities — please contact us.



www.sabprofiel.com

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