

TECHNICAL DATA SHEET

SAB-Carrier Sandwich Wall panels (WB100-140 FR)

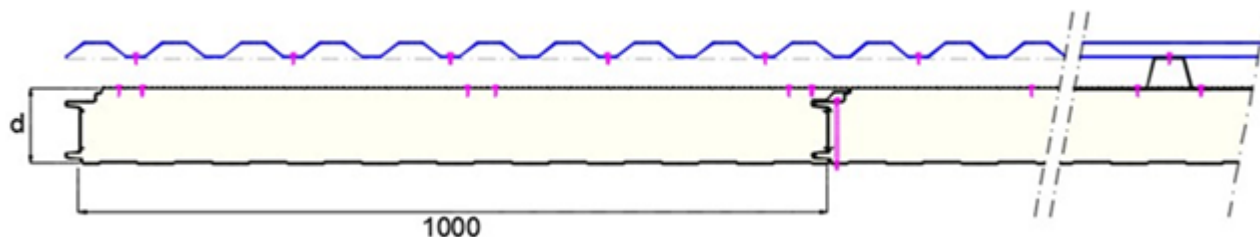
APPLICATION

The SAB-Carrier sandwich panels are designed to serve as a support structure for the SAB wall cladding profiles. In this way a building is quick and easily insulated and wind- and waterproof. As an outside finish, every possible SAB type of wall cladding can be mounted.

APPROVAL

To get an approval for applying an SAB-Carrier sandwich panel, the following information must be submitted to SAB:

- Facade drawings, including detailed descriptions.
- Mounting and fixing plan of the panels, the sub-construction (for example omega's) and the wall cladding.
- Conditioning of the supporting structure (chosen coating systems, ventilated cavity)
- Wind load and specified safety factor



Thickness	Weight*	U-value	Reaction to fire	Sound insulation
100 mm	13,30 kg/m ²	0,21 W/m ² K	B-s2,d0	26dB
120 mm	14,10 kg/m ²	0,18 W/m ² K	B-s2,d0	26dB
140 mm	14,90 kg/m ²	0,15 W/m ² K	B-s2,d0	26dB

*Outer skin steel 0,63 mm
Inner skin steel 0,40 mm

STEEL GRADE

Yield strength minimum 280 N/mm², zinc layer can be Z, AZ, ZA or ZM.

CORE MATERIAL

Fire safe, CFC-, HCFC- and fibre-free polyisocyanurate foam (PIR) with a closed cell structure.

FIRE RESISTANCE

For additional facilities and information regarding fire resistance, see the [SAB-website](#).

WIND AND WATER TIGHTNESS

$q_{v,10} = 0,130 \text{ dm}^3/\text{s}$ according EN 12114

Class B according EN 14509

SUSTAINABILITY

Environmentally relevant product information is published on the [SAB-website](#).

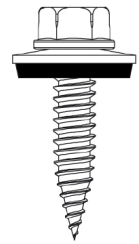
STRENGTH AND STIFFNESS

The maximum span depends on the wind load, deflection limitations and safety factors.

Our Product Services department can advise you in this.

FIXATION

For the fixing of the omega profiles in the outer skin of the SAB-Carrier panels an **EJOT® JF3-2-5,5 x 25 – E16** fastener needs to be used. The omegas must be pre-drilled: In the middle with 6 mm as a fixed point and further out with 9 mm to serve as a slot hole. Minimum number and position of the fasteners according to SAB calculation.



QUALITY CONTROL

The panels are extensively checked by our own laboratory and a voluntary external quality audit takes place periodically.

SPANS

Depend on wind loads, deflection requirements, and safety factors. Load tables can be found in our documentation.

STANDARDS

Production according ISO 9001, ISO 14001, ISO 45001 and BES 6001

CE-marking and Declaration of Performance according EN 14509

Tolerances according PPA-Europe Quality Regulations

U-value according EN 14509 including impact of the joint

Steel thickness: EN 10143 is used as a basis for the gauge tolerances, applied to the steel core only and excluding zinc layer and organic coating.

IJsselstein, August 2026