

TECHNICAL DATA SHEET

SAB-Carrier Sandwich Roof panels (D70-160TL)

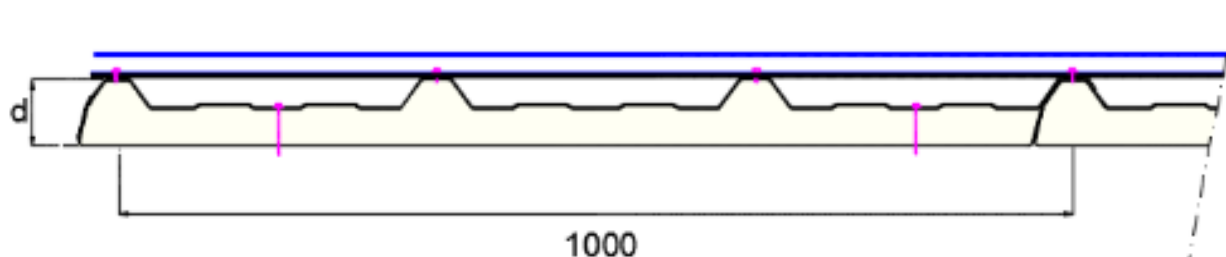
APPLICATION

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
40/70 mm	10,95 kg/m ²	0,46 W/m ² K	B-roof	26dB
60/90 mm	11,75 kg/m ²	0,32 W/m ² K	B-roof	26dB
80/110 mm	12,55 kg/m ²	0,25 W/m ² K	B-roof	26dB
100/130 mm	13,35 kg/m ²	0,20 W/m ² K	B-roof	26dB
130/160 mm	14,48 kg/m ²	0,16 W/m ² K	B-roof	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.

WIND- AND WATER TIGHTNESS

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

Resistance to driving rain: Class B according EN 14509

SUSTAINABILITY

Environmentally relevant product information (EPD) are published on www.sabprofil.com

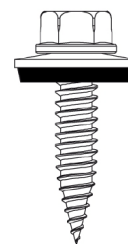
STRENGTH AND STIFFNESS

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, May 2026