

# PRODUCT DATA SHEET

## ISO-TOP CONSTRUCTION SHEETS WF3



### PRODUCT DESCRIPTION

ISO-TOP CONSTRUCTION SHEETS WF3 made of high-density THERMAPOR offer the possibility of individual, constructive adaptation for assembly and sealing details on the IN FRONT OF WALL INSTALLATION SYSTEM ISO-TOP WINFRAMER. They can be cut to size and geometry, to individual requirements, on the construction site. They can be used both as adapter sheets in combination with the system profiles or individually as substructure profiles, liners and window sill moldings and in the fitting of blinds and shutters.

With a bending resistance of more than 650 kPa, the ISO-TOP CONSTRUCTION SHEETS WF3 offer a very high bearing capacity for windows or doors.

### PRODUCT ADVANTAGES

- windows can be fitted into the thermal insulation level
- optimum integration in EWI systems
- optimisation of the  $\Psi$ -value thanks to highly thermal properties
- simple adjustment of length using standard mitre saws
- ideal basis for 3-level-sealing with multi-functional joint sealing strips
- excellent for energy-related building renovation
- complies with the requirements of the Building Energy Act (EnEV was valid 31.10.20) and the recommendations of the RAL "installation guide"
- can be combined with the system products of the ISO<sup>3</sup>-WINDOW SEALING SYSTEM
- certified Passive House component
- 10 Year Function Warranty\*

\* On the conditions of the manufacturer (available on request).



# ISO-TOP CONSTRUCTION SHEETS WF3

Technical data	Standard	Classification
Material description		THERMAPOR (EPS-F / flame-retardant)
Colour		silver grey
National test certificate for a construction product		P-23-001616-PRO2-ift
Building material class	DIN 4102-1	B2 (normal flammability)
Fire behaviour	DIN EN 13501-1	E
Airtightness	DIN EN 12114	$\alpha \leq 0,1 \text{ m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3}]$
Impermeable to driving rain	DIN EN 1027	$\geq 1,200 \text{ Pa}$
Bulk density		$150 \text{ kg/m}^3 \pm 10\%$
Flame retardant		HBCD-free flame retardant
UV stability		6 months direct weathering during the construction phase
Compatibility with adjacent building materials	internal	requirements fulfilled
Compatibility with salt water		resistant
Compatibility with hydrochloric acid (10 %)		resistant
Compatibility with caustic soda (10 %)		resistant
Air permeability coefficient	DIN EN 12114	$\alpha = 0.00 \text{ m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^n]$
Thermal conductivity	DIN EN 12667	$\lambda = 0.040 \text{ W} / (\text{m} \cdot \text{K})$
Form stability under thermal load		-40°C to +85°C
Temperature resistance	ISO 75-1	long-term +85 °C
Ageing resistance		resistant to rotting, non-rotting
Compressive strength at 2%	DIN EN 826	1,194 N/mm <sup>2</sup>
Compressive strength at 10%		1,793 N/mm <sup>2</sup>
Bending resistance	DIN EN 12089	$\geq 650 \text{ kPa}$
Shearing stress	DIN EN ISO 14130	$X = 0.217 \text{ N/mm}^2$
Creep characteristics at 20 % and 60 %		$E_m = 0.68 \text{ 0/00 up to } 5.2 \text{ 0/00}$
Water absorption (28 days storage)	DIN 12087	$\leq 1.5 \text{ Vol.}\%$
Water vapour diffusion resistance $\mu$	DIN EN ISO 12572	$< 500$
Waste code		170604 170904
Load transfer		200 kg/m depending on wall substrate and projection
Dimension tolerance	DIN 7715 T5 P3	requirements fulfilled
Shelf life		24 months

System components	Length	Width	Height	Load transfer
ISO-TOP CONSTRUCTION SHEETS WF3 20		800 mm	20 mm	> 200 kg/m
ISO-TOP CONSTRUCTION SHEETS WF3 30		800 mm	30 mm	> 200 kg/m
ISO-TOP CONSTRUCTION SHEETS WF3 40		800 mm	40 mm	> 200 kg/m
ISO-TOP CONSTRUCTION SHEETS WF3 50	1.200 mm	800 mm	50 mm	> 200 kg/m
ISO-TOP CONSTRUCTION SHEETS WF3 60	and	800 mm	60 mm	> 200 kg/m
ISO-TOP CONSTRUCTION SHEETS WF3 70	2.400 mm	800 mm	70 mm	> 200 kg/m
ISO-TOP CONSTRUCTION SHEETS WF3 80		800 mm	80 mm	> 200 kg/m
ISO-TOP CONSTRUCTION SHEETS WF3 90		800 mm	90 mm	> 200 kg/m
ISO-TOP CONSTRUCTION SHEETS WF3 100		800 mm	100 mm	> 200 kg/m

Individual measures on request.