

Product

The ISO-TOP WINFRAMER TYPE 3 SYSTEM consists of system profiles made of high-density insulating hard foam.

The extremely good thermal properties of the panels ($\lambda=0.040$ W/(m·K)) ensure perfect integration into the system of insulating facades and optimal Ψ -values (Psi). In this way, thermal bridges are optimised and a high degree of insulation is obtained. This prevents the risk of mould forming in the connecting area around the window opening.



Application examples

- to support carpentry in overflow
- as insulation
- as supporting material (support)

The system offers considerable load capacity and load transfer. The high density of 150 kg/m³ not only provides very good support for the window/frame, the system is also strong enough to transfer the loads from the window/frame to the supporting structure without any problems. The system profiles are fixed directly to the structure using the hybrid polymer adhesive ISO-TOP FLEKKLEBER WF and then screwed on. The mechanical fastening of the window/frame is performed using the appropriate fasteners, both to the Iso-Top Winframer Type 3 and to the structure.

Dimensions of the load-bearing profiles (anthracite grey) :

80 x 80 mm / 140 x 80 mm / 160 x 80 mm / 180 x 80 mm
(x 1,200 mm)

Dimensions of the insulating beams (beige) :

30 x 80 mm / 50 x 80 mm (x 1,200 mm)

Advantages

- ✓ load capacity > 200 kg/metre
- ✓ lightweight = more workable
- ✓ important load-bearing capacity with adhesive sealant ISO-TOP FLEKKLEBER WF (*)
 - sand-lime brick: 407.2 N/cm
 - concrete: 353,5 N/cm
- ✓ Optimisation of the Ψ -value thanks to highly thermally insulating plates ($\lambda=0.040$ W/(m·K))
- ✓ good resistance to compression
- ✓ complies with EnEV requirements and recommendations of the RAL "Installation Guide
- ✓ certified passive house component
- ✓ Ideal for use with the "3-in-1" Iso-Bloco One® system as well as with the airtight or water-repellent films of the EASY FOIL-System.
- ✓ simple length adjustment using a standard mitre saw; easy milling, drilling, gluing

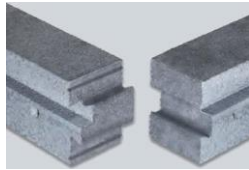
Technical properties

Properties	Value (*) + unit
Material	High-density insulating hard foam
Colour	anthracite-grey
Classification (DIN EN 13501-1)	E
Density	150 kg/m ³ (+/- 10%)
Flame retardant effect	flame retardant without HBCDD
uv stability during the construction phase	minimum 6 months in case of direct contact
Acoustic attenuation <ul style="list-style-type: none"> ○ $D_{n,e,w}$ (C;C_{tr}) ○ $R_{s,w}$ (C;C_{tr}) 	55 dB (0 ;0) 46 dB (0 ;-1)
Air permeability (DIN EN 12114)	a=0,00 m ³ /(h.m.(daPa)n))
Thermal conductivity (DIN EN 12667)	$\lambda=0,040$ W/(m·K)
Dimensional stability under thermal load	-40°C to +85°C
Temperature resistance (ISO 75-1)	Long term +85°C
Ageing resistance	Rot-resistant
Bending resistance (DIN EN 12089)	≥650 kPa
Shear strength (DIN EN ISO 14130)	X=0,217 N/mm ²
Water absorption after 28 days of storage (DIN 12087)	≤1,50% Vol.
Resistance to water vapour diffusion μ (DIN EN ISO 12572)	<70
Compressive power at max. total deformation of 2% (DIN EN 826)	1280 kg / dm ²
Dimensional stability (DIN 7715 T5 P3)	meets the requirements

* Test results of tests with an I-T WF beam Type 3 of 80 x 80 mm

ISO-TOP WINFRAMER TYPE 3 SYSTEM

The system profiles have a dovetail joint at the end for quick and easy installation. This allows easy and practical assembly of the system profiles.



In order to guarantee a perfect connection between the profiles and the facade insulation, you can use ISO-TOP WINFRAMER insulating strips. These components are available in 30 x 80 mm and 50 x 80 mm.

The joints are sealed with ISO-TOP FLEXKLEBER WF system adhesive before the system profiles are placed against the wall surface.



For additional stability, additional aluminium brackets can be inserted into the existing console slots in the profile and securely connected to the load-bearing wall when

attached to the brickwork. This is an advantage when very large and heavy elements need to be mounted.

Also available in plates
800 x 1,200 mm



Thicknesses of the plates
WINFRAMER TYPE 3-PL

20 – 30 – 40 – 50 – 60 – 70 – 80 – 100 mm

General information

The information contained in this document is provided in good faith and is believed to be correct. However, we have no influence on the conditions in which these products are used or the methods by which they are used. Therefore, this information is not a substitute for tests which the customer must perform himself/herself in order to ensure that the products are safe, effective and achieve the intended purposes. Suggestions regarding the use of the product must not be used as grounds for infringement of any patent whatsoever. The only guarantee Castelein Sealants offers is that this product complies with the Castelein Sealants terms and conditions of sale in force at the time of shipment. Your only remedy in the event of a breach of this guarantee is the refund of the purchase price or the replacement of the product that does not comply with the guarantee.

Technical data of supplier: 06-2018

The producer reserves the right to make changes. 2021 09 08

