MOSOTHERM

Thermal separation for facade systems

With
general type
approval

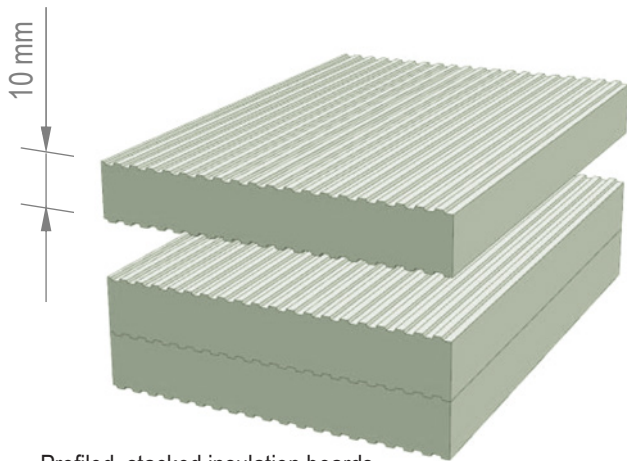## MODERSOHN®
Stainless Steel
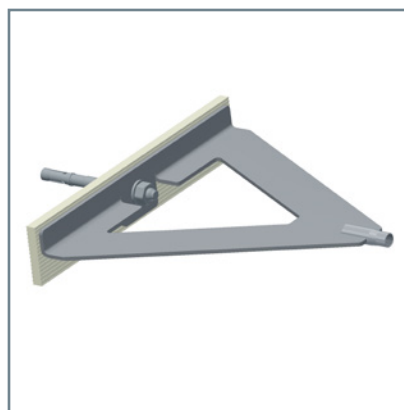
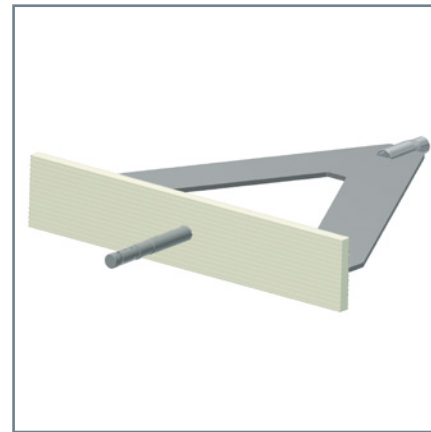Application example:
MOSO® scaffold anchor GA-Q
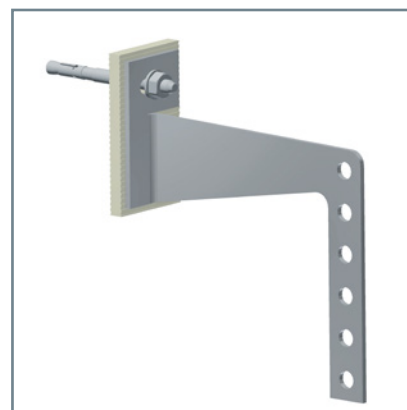
Application example:
MOSO® support bracket EK-G

Technical data sheet

50 years

10 mm

Profiled, stacked insulation boards -
available in board thickness of 5 mm and 10 mm

Use and application of MOSOTHERM

MOSOTHERM is an insulation system for the reduction of thermal bridges in the area of facade fixing systems. This can be realised by means of a creep and pressure resistant glass fibre reinforced plastic, with approval.

Due to the high strength of the material, there are also possibilities for other applications, e.g. the construction of pressure-resistant insulation levels in high load areas. Product studies on these and other application and areas of application are currently being initiated by W. Modersohn GmbH & Co. KG.

Product-information MOSOTHERM

The following values were determined with a panel thickness of 10 mm.

- Material: Glass fibre reinforced plastic (GFK)
- Colour: GFK-nature
- Proportion of hollow glass beads in the resin   40 Vol.-%
- Density: 1.250 kg/m³*
- Water absorption: <5,0 % **
- Thermal conductivity value: 0,14 W/mK ***
- Resistance: Frost and dew resistant ****
- Temperature range: +80°C bis -40°C ****
- Compressive strength: See table 1 ****
- Panel size: 4000/520/10 mm and 4000/520/5 mm
                                                     (Cuts according to customer requirements)
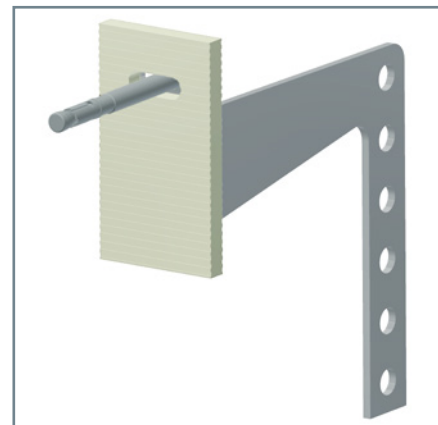
Performance features MOSOTHERM

Load type	Transmission	Load duration	Characteristic pressure load capacity σ_{RK} [N/mm²]	Rated value σ_{RD} pressure load capacity σ_{RK}/1,4 [N/mm²]
Pressure	full area	short	100	71,43
	□ 60x60 mm	long	50	35,71
	partial area Ø 10 mm	short	60	42,86
		long	30	21,43

Table 1

*   Fluctuations of +/- 10 % possible due to fluctuations in raw materials

**   Determined by investigations of fischerwerke GmbH & Co. KG

***   Thermal conductivity value determined by the Fraunhofer Institute on behalf of Wilhelm Modersohn GmbH & Co. KG

****   Preliminary figures according to the interim report of MPA Universität Stuttgart, Prof. Dr.-Ing. Hofmann of 10 April 2018

50 years