

Large-size insulation boards

SILCAPAN 400, 45MA

SILCAPAN 400 has a high thermal stability and is used primarily as a large-size, self-supporting building board for the cladding of dryers and as a composite element cover panel.

SILCAPAN 45MA boards have a low bulk density in combination with good strength. They belong to the group of medium weight calcium silicates. The above factors in combination with excellent insulating properties mean that they are optimally suited for thermal separation in the field of machines, apparatuses and dryers.

Machining

The elements can be machined using woodworking machines. As a result of the high strength values, tools with carbide cutting elements should be used. An appropriate dust extraction system should be provided. We will be pleased to produce the particular parts you require on our computer-controlled machines.

Surface treatment

The SILCAPAN boards are used primarily in dryers. Since here a high level of humidity arises as a rule, vapour brakes can be applied in addition. In addition the boards can be provided with decorative finishes. Attention should be paid to the fact that the vapour pressure downward gradient from inside to outside is maintained. In case of doubt you should contact our Technical Department.

SILCAPAN 400



SILCAPAN 45MA



SPECIAL FEATURES

- large-size
- self-supporting
- high strength

SILCAPAN		Unit	400	45MA
Classification temperature		°C	400	900
Bulk density		kg/m ³	870	450
Compression strength		MPa	9.3	6.2
Flexural strength	Longitudinal	MPa	7.6	3.8
Elastic modulus	direction	MPa	4,200	-
Fire behaviour to DIN 4102	Building material class		A1	-
Thermal conductivity λ at t_m	100 °C	W/(m K)	0.19	0.09
	200 °C		0.21	0.10
	300 °C		0.23	0.11
Dimensions				
Standard sizes	Length	mm	2,500*/3,000	2,440
	Width	mm	1,250	1,220
	Thickness	mm	6*/8/10/12/15/20/25	12.7/19.1/25.4/38.1/50.8
*6 mm thickness only with a length of 2,500 mm available.				

The properties mentioned are typical values obtained according to the listed methods. Product specific variations have to be taken into account. The data do not represent guaranteed properties and cannot be used for any warranty claim. Data are subject to technical modifications.

SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH

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