

## MONOLUX®

### Structural calcium silicates



MONOLUX® materials are rigid insulation boards with a low thermal conductivity. They are specifically formulated without asbestos and mineral fibres.

MONOLUX® products have low shrinkage and high strength and therefore provide effective and stable insulation solutions for industrial applications.

**MONOLUX®** boards are strong rigid insulation boards ideally suited for applications where good insulation values and high mechanical resistance are required.

#### Properties & advantages

- Low thermal conductivity
- High mechanical strength
- Resistant to moisture and chemicals
- Excellent machinability to close tolerances
- Tough and durable
- Dust free surface
- Asbestos free

#### Typical applications

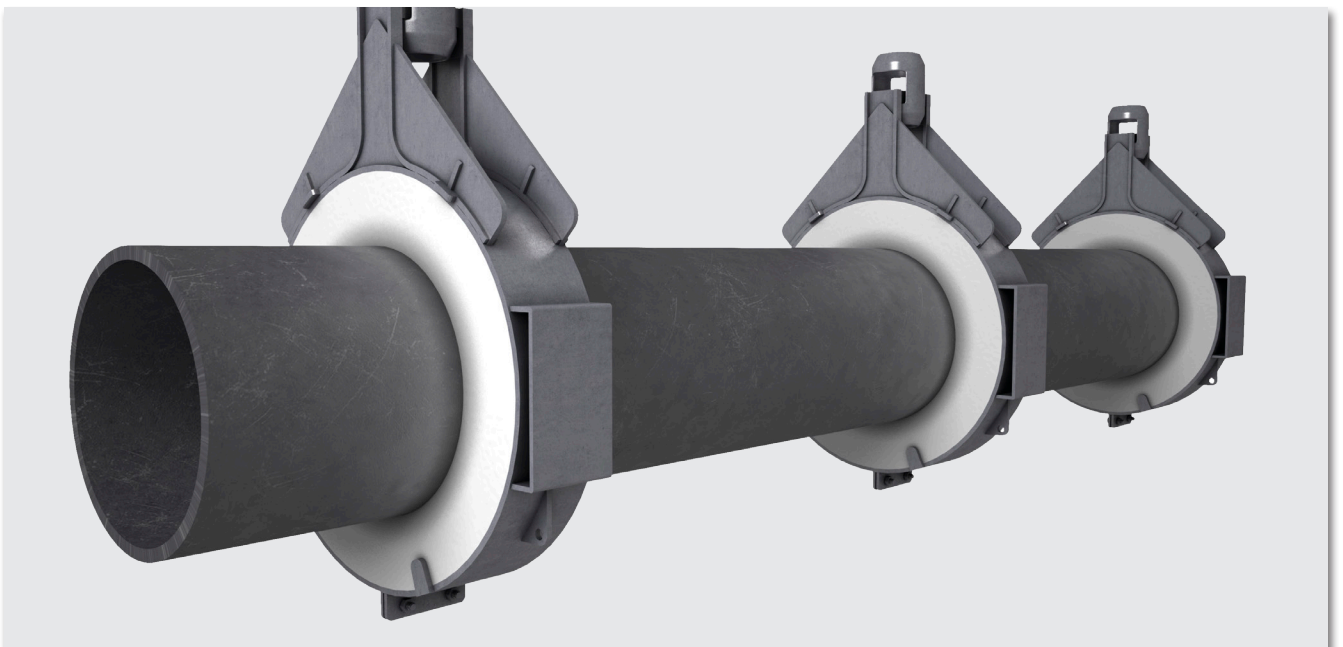
- Platen press insulation
- Load bearing pipe supports
- Heat shields
- Structural thermal breaks
- Furnace bottom boards

#### Working & processing

MONOLUX® products can be accurately machined with special processing machinery and appropriate tools. The fine material structure allows the production of precision machined parts.

MONOLUX® boards can be easily fixed in place by screws or Tucker Fasteners. When using screws, slot holes should be included.

When cutting to size, the maximum allowable recommended workplace concentration for dust generation must be observed. We advise localised dust extraction in the cutting zone.

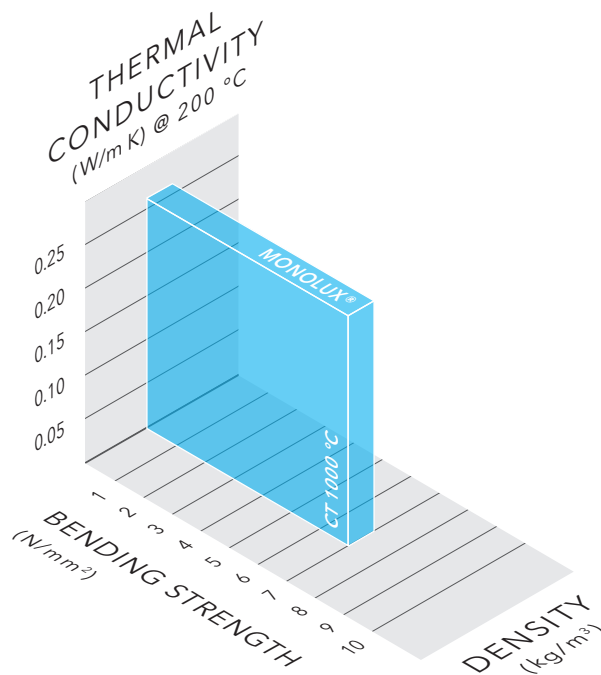


Technical data			
Brand	MONOLUX®		
Colour	white/beige		
Building material class (EN 13501)	A1, non-combustible		
Classification temperature	°C	1000	
Nominal density	kg/m <sup>3</sup>	950	
Cold compressive strength	N/mm <sup>2</sup>	25	
Bending strength	N/mm <sup>2</sup>	7	
Shrinkage @ CT - 24h	%	0.8	
Thermal conductivity	@ 200 °C mean	W/m K	0.26
	@ 400 °C mean		0.26
	@ 600 °C mean		0.25
	@ 800 °C mean		0.25
Specific heat capacity	kJ/kg K	1.03	
Reversible thermal expansion	2 <sup>nd</sup> heating 20-800 °C m/m K	7.3x10 <sup>-6</sup>	

Product dimensions & size availability			
	Length mm	Width mm	Thickness mm
MONOLUX®	2500	1200	12.7/25/30/40/50/60
Other sizes and shaped parts are available on request.			

Production tolerances	
Length mm	± 1
Width mm	± 1
Thickness mm	± 0.4

### Thermal conductivity vs. compressive strength vs. density



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