

THERMAX[®] SN 500 Fireplace Enclosure

Large-format THERMAX[®] boards for
fireplace construction and enclosures



Easy to use construction board – tried and tested in
fire protection and chimney construction

Fireplace enclosures that offer thermal insulation: The new THERMAX® SN 500 fireplace enclosure

THERMAX® SN 500 – the fireplace construction material with THERMAX® quality – for simple, safe, fast and clean installation of fireplace enclosures. **THERMAX® SN 500** is non-flammable and highly heat resistant. The energy given off by the insert appliance radiates uniform heat into the room via the THERMAX® boards. Used in combination with innovate design of the fireplace enclosure, the convection heat of the stove can also be distributed to other rooms in the household.

Notwithstanding its strength and stability, **THERMAX® SN 500** has ideal thermal properties: high heat capacity combined with good insulation properties. Its thermal conductivity is higher than that of calcium silicate boards. **THERMAX® SN 500** is made of nothing else than vermiculite and inorganic binders.

THERMAX® – tried and tested quality for more than 30 years

The base raw material of most THERMAX® products is vermiculite, a clay mineral obtained through opencast mining. Vermiculite is classified as being harmless to health and thus supports industry demand for ecologically sustainable building.

Vermiculite is a naturally occurring mineral, which when subjected to high temperatures, discharges stored crystal water and expands up to x10 its original particle size. The resulting expanded vermiculite is processed using a special hot press method to form **THERMAX® SN 500** boards.

THERMAX® SN 500 – the advantages are obvious.

Use of **THERMAX® SN 500** offers many advantages. The boards are both a construction and insulation material – whereby the insulation values lie within a perfectly uniform range.

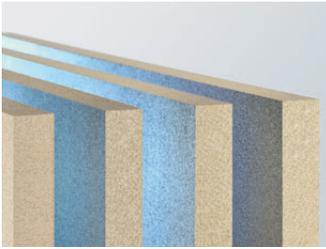
Temperatures inside an insert appliance can reach up to 500 °C, these temperatures are safely reduced to an optimal 60 – 70 °C radiant heat on the outside of the fireplace enclosure when using **THERMAX® SN 500** boards. The uniform and optimised heat



Build individual dream fireplaces with **THERMAX® SN 500** fireplace construction boards. Use standard woodworking tools to machine the boards. The boards are bonded together with adhesive and can also be screwed together without pre-drilling.



THERMAX® SN 500



- Safe and reliable
- Fast, clean installation
- Structurally and dimensionally stable
- Smooth surface
- Natural product

Professionals worldwide have been working with THERMAX® fire protection products for many years. All national technical approvals are naturally available on request.

distribution of the boards is achieved by the special THERMAX® production technique: during the pressing process the laminar Vermiculite grains are aligned parallel with to the front face of the board and thus form a surface which can more effectively emit the radiant heat into the room.

THERMAX® SN 500 is lightweight and easy to use. You can cut, chase, drill or clip the construction boards using standard wood-working tools and screw them together – without pre-drilling. Another major advantage of the boards is that very little dust is produced during machining processes. The ready cut, self-supporting components are bonded together with THERMAX® fire protection glue. Countersunk screws, which can be used without pre-drilling, shorten the assembly and installation time considerably. Depending on the requirement and customer wish, THERMAX® SN 500 boards can be plastered after installation, clad with ceramic stove tiles or finished with natural stone. Unlike calcium silicate boards they do not require pre-wetting.

To plaster the finished THERMAX® SN 500 fireplace construction, we recommend using suitable plasters for fire place in conjunction with a tiled stove primer and proper reinforcement mesh.

THERMAX® SN 500 fireplace construction boards are also...



... ideally suitable for variable designs of fireplaces



THERMAX® SN 500 Fireplace Enclosure

Technical specification

THERMAX®	SN 500	
Classification temperature	°C	900
Bulk density	kg/m ³ ± 5 %	520
Cold compressive strength	N/mm ²	2.5
M. o. R.	N/mm ²	1.5
Thermal conductivity 200 – 800 °C	W/mK	0.2 – 0.3
Thermal expansion, linear (20 – 500 °C)	%	0.4
Specific heat capacity	kJ/kg K	1.15
Standard dimensions (in mm)	1200 x 800 x 30	

At a glance:

- Clean and easy machining and use, very little dust produced
- Short installation times by bonding and screwing
- No pre-drilling
- Lightweight, dimensionally and structurally stable
- Self-supporting
- Optimised thermal conductivity
- Non-flammable A1
- Natural product, material residues and off-cuts are 100% recyclable
- Tried and tested in fire protection for many years
- Certified product

Do you know the other THERMAX® products for the lining of fireplaces?

- Boards
- Cut to size
- Moulded parts
- Adhesive sealant
- Chamber colour

THERMAX® fire protection glue

For bonding THERMAX® fireplace construction boards and for use in all areas of structural fire safety.

THERMAX® fireplace construction boards can be bonded together and on steel, concrete, masonry, stone, ceramic, wood, and similar materials. THERMAX® fire protection glue is optimally matched to bonding THERMAX® boards.

Delivery form:

- 1 kg – tubular bag
- 15 kg – Container

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