



**grenalight**<sup>®</sup>

Harmless to health  
insulation boards

	Metric	US/British	
<b>Thickness</b>	<b>mm</b>	<b>in</b>	
	30	1.18	
	40	1.57	
	50	2	
<b>Density</b>	<b>kg/m<sup>3</sup></b>	<b>lb/ft<sup>3</sup></b>	
	350	21.85	
<b>Reaction to fire class acc. to EN 13501-1</b>	A1, non combustible		
<b>Classification temperature acc. To EN 1094-6</b>	950 °C	1 742 °F	
<b>Thermal conductivity acc. to ASTM C-201</b>	<b>W/Mk</b>	<b>BTU-in/h-ft<sup>2</sup>·°F</b>	
	200 °C (392 °F)	0.14	0.97
	400 °C (752 °F)	0.16	1.11
	600 °C (1 112 °F)	0.19	1.32
	800 °C (1 472 °F)	0.20	1.39
<b>Heat capacity acc. to EN 821-3</b>	<b>kJ/kg·K</b>	<b>BTU/lb·°F</b>	
	0.95	0.23	
<b>Linear shrinkage after 12h at 700 °C (1 292 °F) acc. to EN 1094-6</b>	<b>%</b>		
	0.66		

## Properties of grenalight<sup>®</sup>

GRENALIGHT<sup>®</sup> board is very light but firm at the same time. It is made from 100 % natural materials therefore it is completely harmless to health. During cutting a minimum of dust is generated, it has excellent insulation properties and it is entirely non-combustible. There are no fumes even when it is heated up to a high temperature. The board can be combined with GRENAISOL<sup>®</sup> and GRENATHERM<sup>®</sup> boards. It can be machined by common woodworking tools.

## Use of grenalight<sup>®</sup>

- **Wall insulation** from heat sources
- **Insulation of a double ceiling** of fireplace surrounds
- **Ceiling insulation** under the soffit or ceiling of the room
- **Foundation insulation layer** for baking areas and furnaces in general
- **Hearth insulation** (behind the refractory board - e. g. GRENAMAT<sup>®</sup>AS or fireclay)
- **Niche insulation** inside fireplaces and stoves
- **Insulation of chimneys** and chimney penetrations
- **Construction of ventilated insulation walls** of heat storage constructions
- **Tile fillers of thermally stressed places** (e. g. tiles above the hearth or heater door)
- **Barriers and heat distribution** in heaters or hypocausts

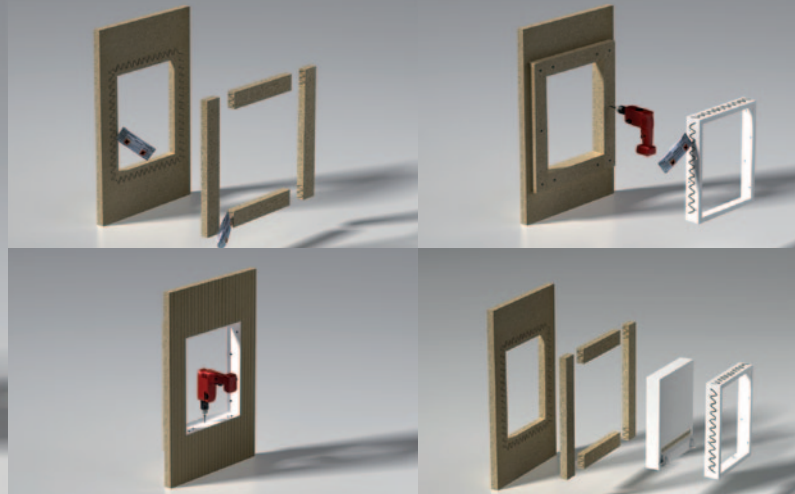
600 x 800 mm  
(31.50 x 23.60 in)

610 x 1 000 mm  
(39.40 x 24 in)

**Light  
insulation  
board**



**grenacontrol**<sup>®</sup>  
inspection doors



### Access to the fireplace surround system with GRENAISOL<sup>®</sup> and GRENATHERM<sup>®</sup>

- ✓ For easy inspection and control of the interior of the fireplace
- ✓ Quick and simple but safety access to the fireplace surround
- ✓ For simple replacement of parts
- ✓ For cleaning the interior of the fireplace surround

### Description

- Dimension: 500 x 400 mm, 400 x 300 mm, 444 x 220 mm
- Invisible system of opening
- Only 1 mm gap around the door, invisible door
- Same surface as the fireplace surround
- Easy and quick installation for the enclosure
- Tested to work with the GRENAISOL<sup>®</sup> and GRENATHERM<sup>®</sup> systems and to work at high temperatures

**New universal dimension**  
**444 x 444 mm (17.50 x 17.50 in)**

**grena**<sup>®</sup> a.s.

# grena® klebepaste



## Universal glue for high temperatures up to 1 200 °C (2 192 °F)

GRENA®KLEBEPASTE is inorganic glue which can be used in high temperatures and does not release any fumes. GRENA®KLEBEPASTE has been specially developed to glue the GRENAISOL®, GRENATHERM® and GRENALIGHT® boards to build the fireplace surround systems. GRENA®KLEBEPASTE is water soluble, soiled tools can be washed with water.

# grenacoat®

The new and improved GRENACOAT® program provides stability, durability and prevents from formation of cracks.

## PERLINKA, special heat resistant fabric mesh for stove makers

It resist repetitive temperature fluctuations up to 550°C and prevent cracking. Combined with the WHITE 600 mortar, it forms the ideal base layer for further modifications of fireplace surrounds and thermal insulations where GRENAISOL® and GRENATHERM® boards are used.

Packaging: Roll 50 x 1 m (164 x 3.30 ft)



## MODEL stove plaster

Fine white plaster which has no influence on heat circulation and can withstand temperatures up to 190 °C (372 °F). The plaster can be applied in layers up to 50 mm (2 in) and is ideal for modelling cornices, flattening surfaces and creating variously surfaces style to the fireplace surround. It is recommended to use WHITE 600 mortar together with the heat resistant fabric mesh PERLINKA as a base layer.

Packaging: 20 kg/5 kg (44.1 lb / 11 lb)



## WHITE 600 stove mortar

White adhesive mortar designed mainly as a support layer for the heat resistant fabric mesh PERLINKA. It can also be used for bonding tiles onto fireplaces and stoves surround constructions. This mortar is flexible, resistant to thermal shocks and sticks well to most of stove materials. It is applied in layers up to 20 mm (0.80 in) and it hardens in approximately 40 minutes. WHITE 600 is the best money-saving and reliable solution for areas up to 600 °C (1 112 °F).

Packaging: 20 kg (44.1 lb)



## FINISH smooth stove plaster

Fine white plaster for creating a smooth final layer of plastered parts of fireplaces and stoves. It has no influence on heat circulation and can withstand temperatures up to 190 °C (372 °F). The FINISH plaster is applied in one layer from 2 to 6 mm (0.08 to 0.24 in). It is recommended to use the FINISH plaster together with the WHITE 600 mortar and with the special heat resistant fabric mesh PERLINKA as a base layer.

Packaging: 20 kg/5 kg (44.1 lb / 11 lb)



## ST-H coarse stove plaster

White plaster for surface finishing with a rougher texture (grain up to 1.5 mm / 0.06 in). It has no influence on heat circulation and can withstand temperatures up to 190 °C (372 °F). The ST-H plaster is applied in a layer from 5 up to 15 mm (0.20 to 0.60 in) and it is suitable for exterior use too (outdoor fireplaces and grills). It is recommended to use the ST-H plaster together with the WHITE 600 mortar and with the special heat resistant fabric mesh PERLINKA as a base layer.

Packaging: 20 kg/5 kg (44.1 lb / 11 lb)



## HAFTAK refractory mortar

Mortar designed especially for spaces that are in the direct contact with flames. It resists temperatures up to 1 100 °C (2 012 °F). The HAFTAK Mortar is suitable for fixing stove tiles and fireclay plates, for filling of the fireclay linings or repairing their surface.

Packaging: 20 kg/5 kg (44.1 lb / 11 lb)

Complete verified system

grena® a.s.