

## PROMATHERM®

**PROMATHERM®-composite element is a large-sized building element with extraordinary good insulating properties. It consists of two PROMATECT®-H top boards, which are bonded with a temperature resistant mineral wool core. The elements are used as prefabricated parts for wall and ceiling elements, partition walls or flue gas ducts in dryers, industrial furnaces and plant construction.**



### ADVANTAGES AND PROPERTIES

- Harmless in terms of working hygiene
- Large-sized, self-supporting
- Good insulating effect, high permanent temperature resistance
- Minimum thermal bridges
- Corrosion and rot-resistant
- Good chemical resistance
- Vibration-proof
- Secure and variable fixings and connections
- Uncomplicated breakthroughs producible
- Diffusion open, no condensates
- Fire protection, noise protection
- Long service life
- Energy-saving
- Dimensionally stable, low thermal expansion
- Variable surface coatings are possible
- Cost-reducing thanks to ready-to-assemble systems and easy processing

### WORKING AND PROCESSING

- PROMATHERM® Composite elements can be easily processed (sawing, drilling, milling, etc.)
- Cutting to Size  
When cutting to size, the maximum workplace concentration values for dust generation must be observed. In general dust suction is recommended.
- Surface Treatment  
The physical and technological construction properties of PROMATECT®-H top boards are suitable for the application of decorative surfaces. PROMATHERM® composite elements are hygroscopic and vapour permeable. Water and vapour are absorbed and emitted without impairing the strength values. In plants with high moisture content, attention must be paid to the changed values of water vapour transmission resistance by using paints. Plants sensitive to dust, e.g. varnish plants, must be made dust-free in critical areas, e.g. breakthroughs and cross joints, by treating the cut surfaces.

### AREAS OF APPLICATION

- Temperature range
- Thermal insulation property, low heat losses
- Lightweight, low heat storage
- Self-supporting, large-sized elements, ready-to-assemble construction
- Fire and noise protection

### SELECTION CRITERIA

- Temperature range
- Thermal insulation property, low heat losses
- Lightweight, low heat storage
- Self-supporting, large-sized elements, ready-to-assemble construction
- Fire and noise protection

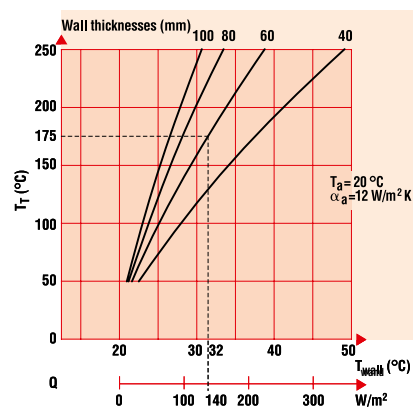
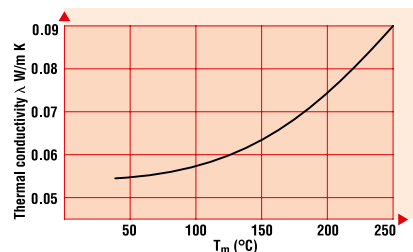


# PROMATHERM® 250°C – 400°C

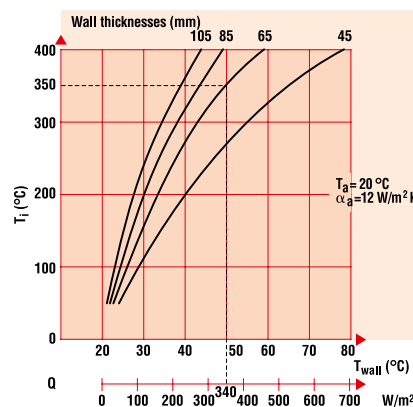
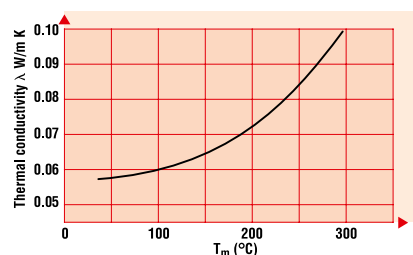


## TECHNICAL DATA

Product name	<b>PROMATHERM® VE 250</b>		
Colour	grey		
Classification temperature	250 °C		
	PROMATECT®-H	Hard Foam	
	Insulating Board	Core	
Building material class according to DIN 4102	A 1, non-combustible	A 1, non-combustible	
Bulk density $\rho$	870	150	kg/m <sup>3</sup>
Cold compressive strength	9,3	0,115	N/mm <sup>2</sup>
Thermal conductivity $\lambda$	0,19	0,05	W/mK
Insulating core	Insulating cores with reduced bulk density are available at the request of the customer		



Product name	<b>PROMATHERM® VE 400</b>		
Colour	grey		
Classification temperature	400 °C		
	PROMATECT®-H	Mineral Wool Core	
	Insulating Board	PROMALAN®-CR	
Building material class according to DIN 4102	A 1, non-combustible	A 1, non-combustible	
Bulk density $\rho$	870	150	kg/m <sup>3</sup>
Cold compressive strength	9,3	0,115	N/mm <sup>2</sup>
Thermal conductivity $\lambda$	0,19	0,05	W/mK
Insulating core	Insulating cores with reduced bulk density are available at the request of the customer		



Dimensional tolerances of standard boards:  
Lengths and widths: ± 5 mm  
Thicknesses 40-100 mm: ± 3 mm

## STANDARD SIZES

### Dimensions boards/pallet

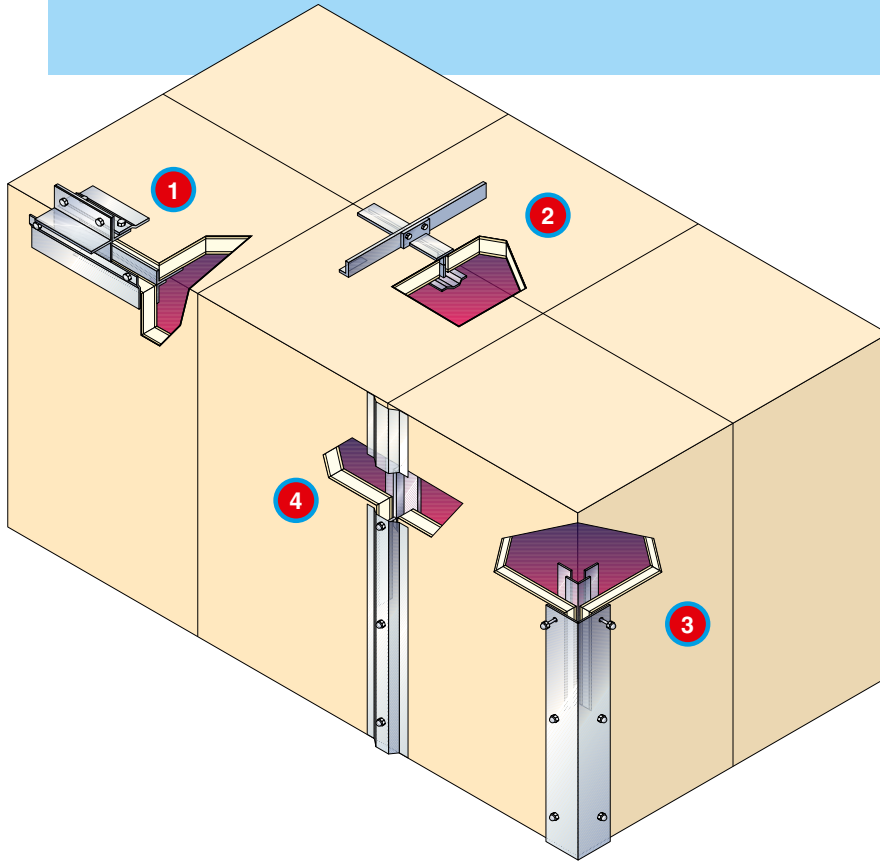
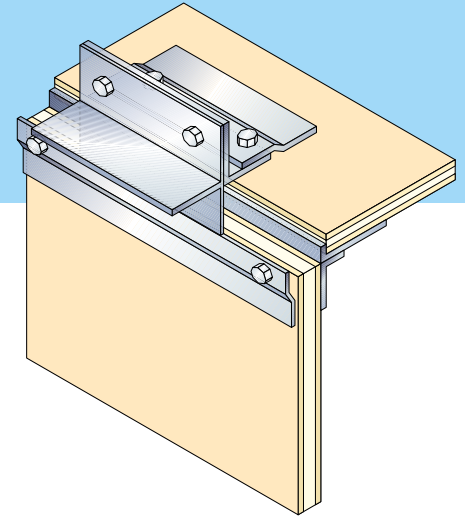
PROMATHERM® VE 250	
2500 x 1250 x 40 mm	17
2500 x 1250 x 60 mm	12
2500 x 1250 x 80 mm	9
2500 x 1250 x 100 mm	7
PROMATHERM® VE 400	
2500 x 1250 x 45 mm	16
3000 x 1250 x 45 mm	16
2500 x 1250 x 65 mm	11
3000 x 1250 x 65 mm	11
2500 x 1250 x 85 mm	8
3000 x 1250 x 85 mm	8
2500 x 1250 x 105 mm	6
3000 x 1250 x 105 mm	6

Promat contains the right to change without notice the properties and values of all products. The given technical values are obtained in specific conditions and are average and indicative. In case of any doubt if these properties and/or values are matching the application requirements, please contact Promat for advise.

## Fixing and Connecting Techniques

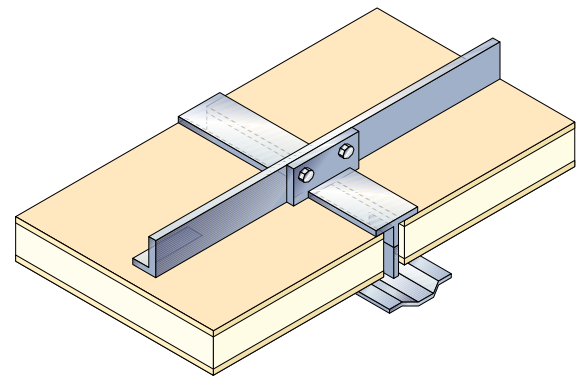
1

Corner connection  
side wall – ceiling



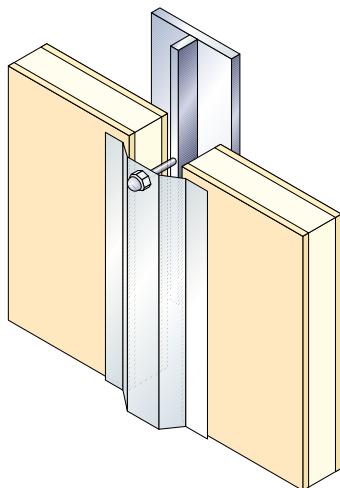
2

Board joint in  
the ceiling



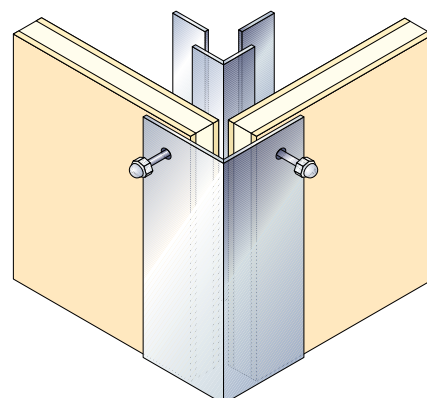
4

Board joint  
– side wall



3

Corner connection  
side wall – front wall



**PROMATHERM®**  
250°C – 400°C

