PROMATHERM®–VE 250, –VE 400

Composite insulation boards

PROMATHERM®-VE elements are large-sized building elements with extraordinary good insulating properties.

PROMATHERM®-VE 250 consists of two 6 mm PROMATECT®-H top boards, which are bonded with a temperature resistant mineral wool core.

PROMATHERM®-VE 400 consists of two 8 mm PROMATECT®-H top boards, which are bonded with a temperature resistant mineral wool core.

Production is quality assured according to ISO 9001.

Technical data					
Type		**–VE 250**		**–VE 400**	
Colour		grey		grey	
Building material class	DIN 4102	A1, non-combustible		A1, non-combustible	
Classification temperature	°C	250		400	
		Insulation board: PROMATECT®-H	Mineral wool core: PROMALAN®-CR	Insulation board: PROMATECT®-H	Mineral wool core: PROMALAN®-CR
Bulk density	kg/m³	870	150	870	150
Cold compressive strength	N/mm²	9.3	0.115	9.3	0.115
Thermal conductivity 100 °C	W/m K	0.17	0.05	0.17	0.05

Delivery sizes							
Type		**–VE 250**			**–VE 400**		
Length x width	mm	2500x1250			2500/3000x1250		
Top board thickness	mm	6			8		
Element description		Element thickness	Core thickness	Weight	Element thickness	Core thickness	Weight
		40 mm	28 mm	15 kg/m²	45 mm	28 mm	19 kg/m²
		60 mm	48 mm	18 kg/m²	65 mm	48 mm	22 kg/m²
		80 mm	68 mm	21 kg/m²	85 mm	68 mm	25 kg/m²
		100 mm	88 mm	24 kg/m²	105 mm	88 mm	28 kg/m²

Production tolerances			
Type		**-VE 250**	**-VE 400**
Length & width	mm	± 5.0	± 5.0
Thickness	mm	± 3.0	± 3.0

PROMATHERM®–VE 250, –VE 400

Properties & advantages

- Large-sized, self-supporting
- Excellent permanent temperature resistance
- Minimum thermal bridges
- Vibration proof
- Dimensionally stable, low thermal expansion
- Secure and variable fixings and connections
- Open to diffusion
- Corrosion and rot resistant

Application areas

HEAVY INDUSTRY

PROMATHERM®–VE elements are used as prefabricated parts for:

- Wall and ceiling elements
- Partition walls
- Flue gas ducts in dryer
- Industrial furnaces and plant construction

Working & processing

PROMATHERM®–VE elements is processed with carbide-tipped tools. Read and understand the safety information sheet.

When cutting to size, the maximum workplace concentration values for inhalable dust must be observed. Dust extraction is recommended. See product safety information sheet.

Mechanical attachment should be clamped joints. In the case of screw connections use slotted holes if possible.

Heat transmission

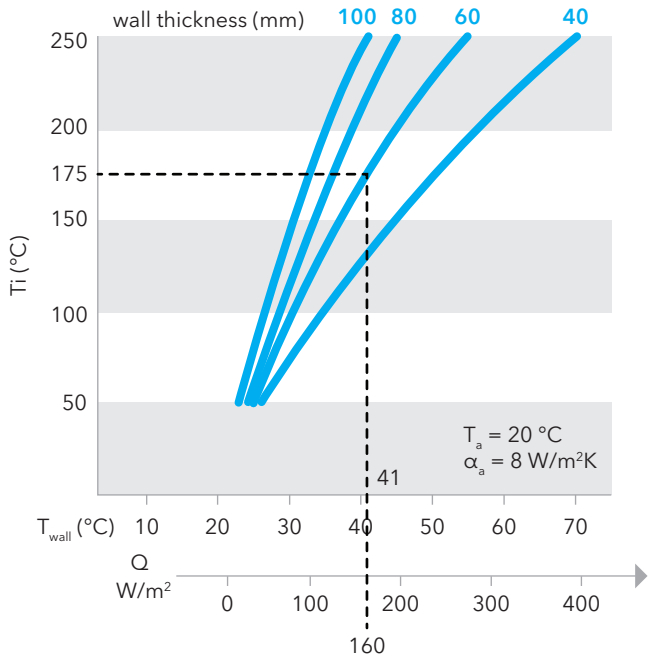
PROMATHERM®-VE 250

Example:

Temperature inside Ti: 175 °C
Wall thickness: 60 mm

Result:

Outs. wall temp. T_{wall}: 41 °C
Heat loss Q: 160 W/m²



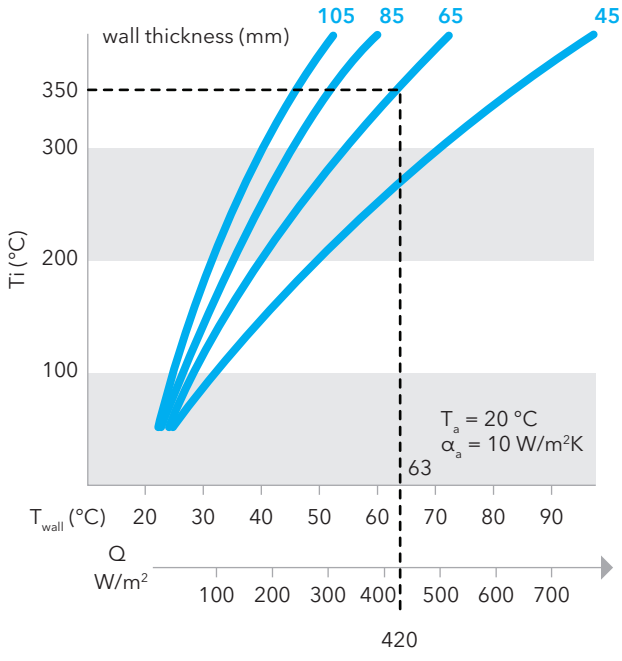
PROMATHERM®-VE 400

Example:

Temperature inside Ti: 350 °C
Wall thickness: 65 mm

Result:

Outs. wall temp. T_{wall}: 63 °C
Heat loss Q: 425 W/m²



Etex Industry c/o Microtherm N.V., Industriepark-Noord 1, 9100 Sint-Niklaas, Belgium | T +32 (0)3 760 19 80 | F +32 (0)3 760 19 99
info@promat-industry.com | www.promat-industry.com

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