

PROMATHERM®-VE 100, -VE 150



Composite insulation board

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

PROMATHERM®-VE 100 consists of Al-galvanised steel top boards bonded to a polyurethane hard foam core, CFC-free.

PROMATHERM®-VE 150 consists of Al-galvanised steel top boards bonded to a mineral wool core, in connection with working hygiene harmless and without classification.

Production is quality assured according to ISO 9001.

Technical data						
Grade		-VE 100		-VE 150		
Classification temperature	°C	100		150		
Sheet thickness	mm	0.60 (outside) / 0.40 (inside)		0.50 (outside) / 0.75 (inside)		
Building material class	DIN 4102	B1, difficult to ignite		A1, non-combustible		
Element thickness		Thermal resistance	Thermal conductance	Thermal resistance	Thermal conductance	
		m ² K/W	W/m ² K	m ² K/W	W/m ² K	
		40 mm	1.86	0.49	-	-
		60 mm	2.81	0.33	1.34	0.66
		80 mm	3.77	0.25	1.80	0.51
		100 mm	4.72	0.20	2.25	0.41
120 mm	5.67	0.17	2.70	0.35		

Delivery sizes							
Grade		-VE 100			-VE 150		
Width	mm	1120			1000		
Element description		Element thickness	Weight	Max. length	Element thickness	Weight	Max. length
VE 100 L-L 40		40 mm	11.0 kg/m ²	16.0 m	40 mm	-	-
VE 100 L-L 60 / VE 150 L-E 60		60 mm	11.7 kg/m ²	16.0 m	60 mm	18.9 kg/m ²	16.0 m
VE 100 L-L 80 / VE 150 L-E 80		80 mm	12.5 kg/m ²	16.0 m	80 mm	21.1 kg/m ²	16.0 m
VE 100 L-L 100 / VE 150 L-E 100		100 mm	13.2 kg/m ²	16.0 m	100 mm	23.3 kg/m ²	16.0 m
VE 100 L-L 120 / VE 150 L-E 120		120 mm	14.0 kg/m ²	16.0 m	120 mm	25.4 kg/m ²	15.4 m

Possible cover plate alternatives: E-E, L-E and L-L (E = plain, L = corrugated)

Production tolerances			
Grade		-VE 100	-VE 150
Length	%	± 2 (max. 5 mm)	± 2 (max. 5 mm)
Width	mm	± 2	± 2
Thickness	mm	± 2	± 2

PROMATHERM®-VE 100, -VE 150

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, no condensation
- Corrosion and rot resistant

Working & processing

PROMATHERM®-VE elements is processed with carbide-tipped tools.

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

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

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.

Heat transmission

PROMATHERM®-VE 100

Example:

Dryer temp. T_i : 80 °C
Wall thickness: 60mm

Result:

Outs. wall temp. T_{wall} : 24 °C
Heat loss Q: 30 W/m²

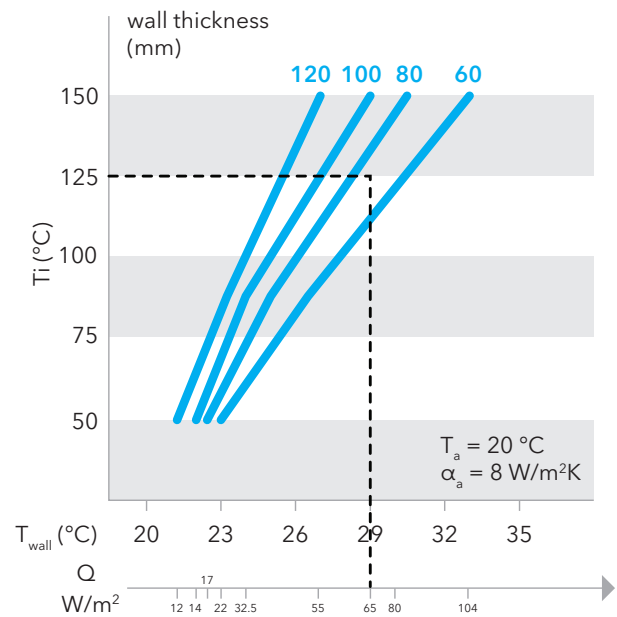
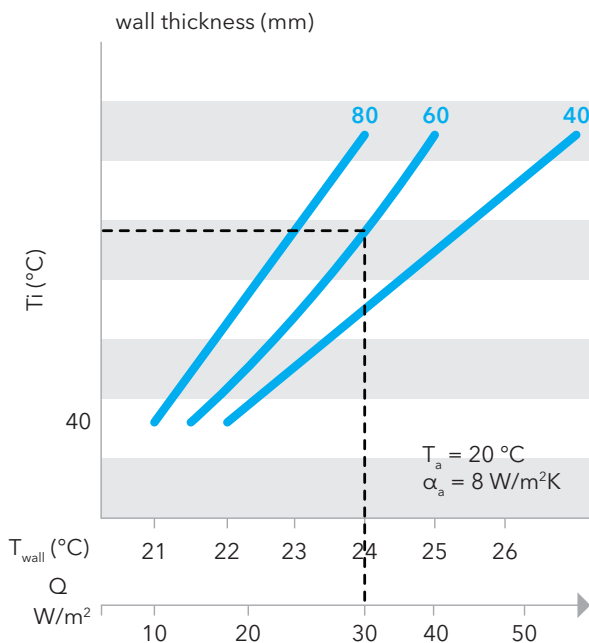
PROMATHERM®-VE 150

Example:

Dryer temp. T_i : 125 °C
Wall thickness: 80mm

Result:

Outs. wall temp. T_{wall} : 28 °C
Heat loss Q: 65 W/m²



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