

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

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

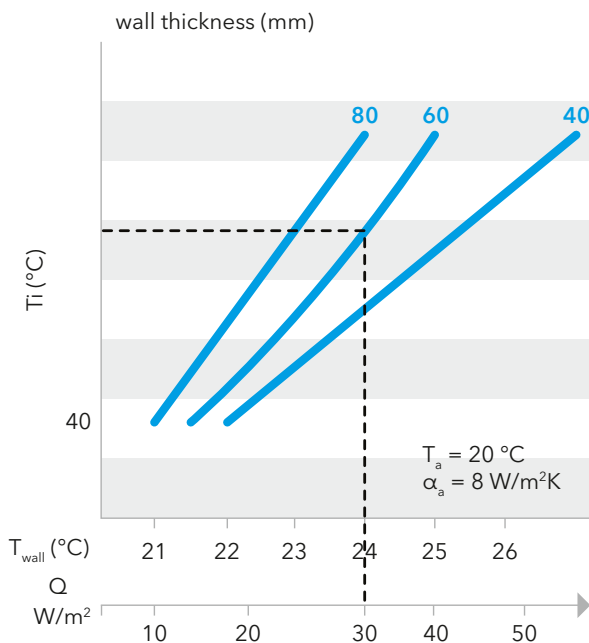
PROMATHERM®-VE 100

Example:

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

Result:

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



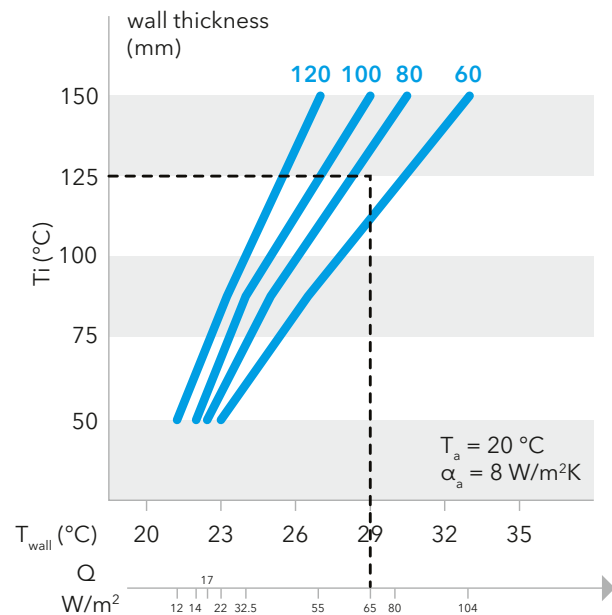
PROMATHERM®-VE 150

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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