

# 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/m <sup>3</sup>	870	150	870	150	
Cold compressive strength	N/mm <sup>2</sup>	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/m <sup>2</sup>	45 mm	28 mm	19 kg/m <sup>2</sup>
		60 mm	48 mm	18 kg/m <sup>2</sup>	65 mm	48 mm	22 kg/m <sup>2</sup>
		80 mm	68 mm	21 kg/m <sup>2</sup>	85 mm	68 mm	25 kg/m <sup>2</sup>
		100 mm	88 mm	24 kg/m <sup>2</sup>	105 mm	88 mm	28 kg/m <sup>2</sup>

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

### Heat transmission

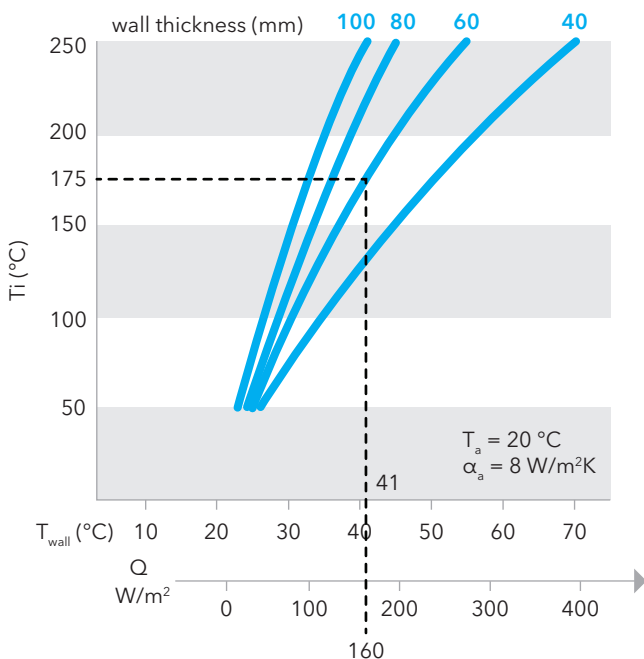
#### PROMATHERM®-VE 250

##### Example:

Temperature inside  $T_i$ : 175 °C  
Wall thickness: 60 mm

##### Result:

Outs. wall temp.  $T_{wall}$ : 41 °C  
Heat loss  $Q$ : 160 W/m<sup>2</sup>



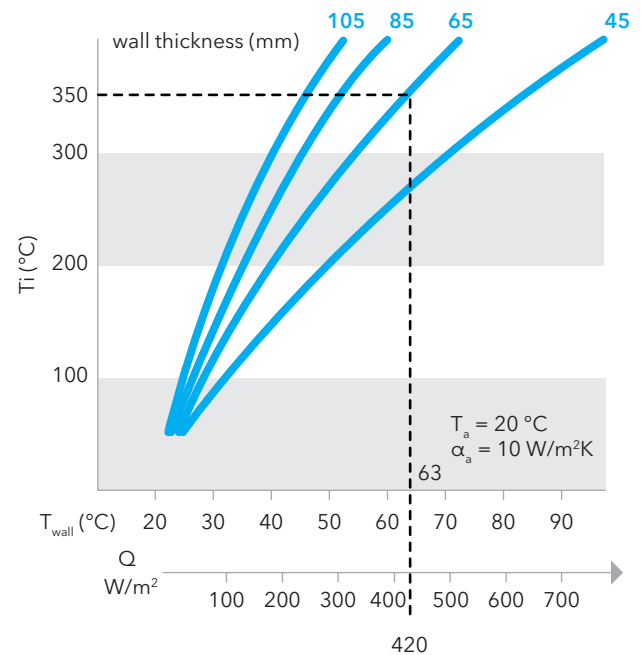
#### PROMATHERM®-VE 400

##### Example:

Temperature inside  $T_i$ : 350 °C  
Wall thickness: 65 mm

##### Result:

Outs. wall temp.  $T_{wall}$ : 63 °C  
Heat loss  $Q$ : 425 W/m<sup>2</sup>



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