

Promat



APPLICATIONS

- Fire protection of metal ducts
- Fire protection to structural steelwork (Promat VICUTUBE®)

Promat VICUCLAD®

A Non-Combustible Fire Protection Board

GENERAL DESCRIPTION

A non-combustible board in which the unique cellular structure of vermiculite is maintained and controlled by a pre-treatment process. This gives excellent thermal insulation properties with dimensional stability at high temperatures. It is used to provide up to 240 minutes fire protection to protect sheet metal ducts and for the construction of smoke extract ducts. This versatile material is also produced in semi-circular sections known as Promat VICUTUBE®, which is used to protect circular steel sections and pipes.

Promat VICUBOND® WR

A ready-to-use, one part non-combustible cement for fixing Promat VICUCLAD® boards and other Promat boards. It may also be used for gap filling. Delivered as semi liquid in 10 litre drums. Allow 1 litre for each 1.5m² of 25mm Promat VICUCLAD® board. Other thicknesses require a pro-rata amount.

Promat VICUCLAD® General Technical Data

Designation	Vermiculite	
Material class	Non-combustible	
Surface spread of flame	Class 1	
Building Regulations classification	Class 0	
Nominal dry density (average) kg/m ³	18 - 20mm	435
	25 - 30mm	415
	35 - 40mm	380
	45 - 70mm	370
Alkalinity (approximately) pH	8-9	
Thermal conductivity (approximately) at 20°C W/mK	0.09	
Coefficient of expansion (20-600°C) m/mK	16 x 10 ⁻⁶	
Nominal moisture content (ambient) %	2-7	
Standard thickness Promat VICUCLAD® 900R mm	18-40	
Promat VICUCLAD® 1050R mm	45-80	
Thickness tolerance (mm)	± 1.5	
Tolerance for length/width mm	+ 8.0 to -0	
Surface condition	Smooth, oatmeal texture and colour	

Promat VICUCLAD® Typical Mechanical Properties

Flexural strength F _{rupture}	Average, dry	N/mm ²	0.8 (15-20mm); 0.7 (25-30mm) 0.6 (35-40mm); 0.3 (45-80mm)
Modulus of elasticity E	Average, dry	N/mm ²	940
Compressive strength (perpendicular to board face)	Average, dry	N/mm ²	0.95



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Promat VICUCLAD® Board Format Data			
Thickness (mm)	Length x Width (mm)	Approx. Weight (kg/m ²),	
		Dry	With approximately 6% moisture
18	1000 x 610	7.8	8.3
20	1000 x 610	8.7	9.2
25	1000 x 610	10.4	11.0
30	1000 x 610	12.4	13.2
35	1000 x 610	13.3	14.1
40	1000 x 610	15.2	16.1
45	1000 x 610	16.7	17.6
50	1000 x 610	18.5	19.6
55	1000 x 610	20.4	21.6
60	1000 x 610	22.2	23.5
65	1000 x 610	24.1	25.5
70	1000 x 610	25.9	27.5

Promat VICUTUBE® Format Data					
Internal diameter (mm)	Tolerance (mm)	Wall thickness (mm)			Tolerance (mm)
		30	40	50	
60	+2 to +5	■	■	■	+2 to -1
76	+2 to +5	■	■	■	+2 to -1
89	+2 to +5	■	■	■	+2 to -1
114	+2 to +5	■	■	■	+2 to -1
140	+2 to +5	■	■		+2 to -1
168	+2 to +5	■	■		+2 to -1
194	+2 to +5		■		+2 to -1
219	+2 to +6	■	■		+2 to -1
244	+2 to +6		■		+2 to -1
273	+2 to +6		■		+2 to -1

Standard format: Semi circular x 667mm long

Promat



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TECHNICAL INFORMATION

For application advice contact the Promat UK Limited Technical Services Department. Tel: 01344 381 400, Fax: 01344 381 401.

ADDITIONAL CONTACT NUMBERS

Customer Services
Tel: 01344 381 381 Fax: 01344 381 380

Marketing Services
Tel: 01344 381 350 Fax: 01344 381 401

A safety data sheet is available from the Promat Technical Services Department and, as with any other materials, should be read before working with the board. The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill. They can be placed in an on-site skip with other general building waste which should be disposed of by a registered contractor.