



Technical Specification

Load-bearing Panel

Density grade		PAC - 4	PAC - 6
Mean Compressive Strength (MPa)		5	7.5
Mean dry density (kg/m ³)		500 - 600	600 - 700
Mean working density (kg/m ³)		600 - 700	700 - 800
Dry thermal conductivity [W/(m ² k)]		≤0.13	≤0.15
Dry shrinkage		≤0.02%	
Shrinkage Strain	/°C	200x10 ⁻⁶	
Thermal Expansion coefficient	/°C	8.1x10 ⁻⁶	
Modulus of Elasticity	N/mm ²	2330	2970

Panel Weight

Thickness (1)	Design Weight PAC-4		Design Weight PAC-6		Groove Dim
	Kg/m2	Kg/LM*	Kg/m2	Kg/LM*	
mm					mm
150	90	54	105	63	50
200	120	72	140	84	50
250	150	90	175	105	50
300	180	108	210	126	50

*Considering a panel width 60 cm

Thermal Properties

Thickness (mm)	* R-Value (m2 k/W)	Thickness (mm)	* R-Value (m2 k/W)
100	0.77	250	1.92
150	1.15	300	2.31
200	1.54	-	-

*R=Thermal resistance

Fire Resistance

Density Class PAC – 4

Thickness (mm)	Fire Rating
200 mm and above	4 Hr

Acoustic Performance

PAC Panel Thickness 200 mm	40 db
PAC Panel Thickness 250 mm	42 db