



## Features and Benefits

- ✓ Up to 4 times lighter than concrete
- ✓ Recyclable, inert, non-toxic
- ✓ Structural & fire resistant building block
- ✓ Thermal insulator, reduces thermal bridging
- ✓ Save up to 60% of power consumption
- ✓ Sound insulator up to STC 50
- ✓ Improves building operating costs
- ✓ Contractor-friendly installation

# Material Technical Data Sheet

## PAC Block Nominal Dimensions in mm

Thickness	50-100-150-200-250-300		
Height	200- 250		
Length	600		
	Thermal Insulation Block	In-fill Block & Load-bearing Block	
Density grade	PAC - 2	PAC - 4	PAC - 6
Mean Compressive Strength (MPa)	2.5	5	7.5
Mean dry density (kg/m <sup>3</sup> )	400-500	500-600	600-700
Mean working density (kg/m <sup>3</sup> )	500-600	600-700	700-800
Dimensional tolerance (mm)	± 3.0		
Dry thermal conductivity [w/(m.k)]	≤0.11	≤0.13	≤0.15

Thermal Insulation K Value		0.11	0.13	0.15
100 mm	R- Value	0.91	0.77	0.67
	U-Value	0.93	1.06	1.20
150 mm	R- Value	1.36	1.15	1.00
	U-Value	0.65	0.76	0.85
200 mm	R- Value	1.82	1.54	1.33
	U-Value	0.50	0.59	0.67
250 mm	R- Value	2.27	1.92	1.67
	U-Value	0.41	0.48	0.54
300 mm	R- Value	2.73	2.31	2.00
	U-Value	0.35	0.40	0.46
Dry shrinkage (mm/m)		≤0.20%		

Sound Transmission Class (STC)	STC Value (db)		
Thickness			
150 mm	34	37	39
200 mm	39	41	42
250 mm	41	43	45
300 mm	43	45	47

Fire Rating			
150 mm	4 Hr	4 Hr	4 Hr
200 mm	4 Hr	4 Hr	4 Hr
250 mm	4 Hr	4 Hr	4 Hr
300 mm	4 Hr	4 Hr	4 Hr

Mortar
Thin Bed Mortar ASTM C270
Thin Bed Mortar ASTM C1660