

## TYPICAL SPECIFICATION OF BOARD SYSTEM

The material shall be made of autoclaved asbestos-free Supalux® calcium silicate board in off-white colour with 875 kg/m<sup>3</sup> nominal density at EMC or equivalent, having alkalinity of less than 10pH and is non-combustible in accordance with the criteria of BS476: Part 4: 1970. The system of an application (ceiling, partition, lining etc) shall be installed in accordance with the manufacturers specification.

## SPECIFICATION & PROPERTIES

Density (nominal at EMC)	875 kg/m <sup>3</sup>
Thickness	6mm / 9mm / 12mm
Width x Length	1220mm x 2440mm <i>Special Size available upon request</i>
Weight (approx.)	17.30 kg <i>6mm</i> 25.90 kg <i>9mm</i> 34.80 kg <i>12mm</i>
Flexural strength, dry (BS 4624)	8.5 MN/m <sup>2</sup>
Hard body impact (BS 8200)	3.0 NM <i>6mm &amp; 9mm</i> 6.0 NM <i>12mm</i>
Flexural modulus, dry	3.3 GN/m <sup>2</sup>
Bending radius (min.)	1800 mm <i>Along grain, 6mm</i> 2400 mm <i>Across grain, 6mm</i> 2700 mm <i>Along grain, 9mm</i> 3600 mm <i>Across grain, 9mm</i> 3600 mm <i>Along grain, 12mm</i> 4800 mm <i>Across grain, 12mm</i>
Sag, when suspended at 600mm span (95% RH, 20°C)	1.5 mm <i>6mm</i> 1.0 mm <i>9mm</i> 1.0 mm <i>12mm</i>
Moisture movement ambient to saturated (30% RH, 20°C)	0.05 %
Thermal conductivity	0.17 W/mK
Coefficient of thermal expansion (100°C)	9 x 10 <sup>-6</sup> per °C
Max. working temperature	80°C
Surface alkalinity	7-10 pH
Fire performance (BS 476: Part 4: 1970)	Non-combustible
Surface spread of flame (BS 476: Part 7: 1971)	Class 1
Smoke or toxic gas emission	Minimal
Acoustic reduction (over range 100-3150 Hz)	22 dB
Sound attenuation	33 dB <i>6mm</i> 39 dB <i>9mm</i> 41 dB <i>12mm</i>