

TECHNICAL
DATA
SHEET

 **HILUX**
CALCIUM SILICATE BOARD



HILUX - Calcium Silicate Board

Parameter	Test Standard/Condition	Typical Value
Dimensional Characteristics		
Length in mm	BS EN12467	2440/1830/1220/1195/610/595
Width in mm		1220/610/595
Thickness in mm		6/8/9/10/12/16
Physical and Mechanical Characteristics		
Apparent Density Dry in kg/m ³	BS EN12467	900 (+/- 50)
Shrinkage Dimension %	Dry saturated condition	≤0.10
Moisture Content %	Ambient	≤15
Bending Strength in Mpa	---	Longitudinal - 10 & Transvers - 5.5
Impact Strength in J/m ²	---	≥1900
Point Load	---	1. Load failure at 3622N,3765N Deflection 12 (Load applied by use iron ball 63mm dia) 2. Load failure at 4589N Deflection 21 (Load applied through area by disc) 3. Withstanding capacity is 1.10N/mm ²
Chemical Characteristics		
Surface Alkalinity pH	---	9 – 10
Durability and Aging Characteristics		
Warm Water Test	BS EN 12467	Pass
Freeze thaw		Pass
Soak dry		Pass
Heat rain		Pass
Water Impermeability		No formation of water droplets after 24hrs test
Thermal Characteristics		
Thermal Conductivity in W/mK	ASTM C 177 & ISO 8302	≤0.15
Fire Characteristics		
Non-combustible	BS 476: Part 4	Pass
Surface Spread of Flame	BS 476: Part 7	Class 1
Fire Propagation Test	BS 476: Part 6	I=1.2
Ignitability	BS476: Part 5	Class 'P' Not Easily Ignitable
Flame Spread index	ASTM E 84	0
Smoke Developed Index	ASTM E 84	5
Fire Rated Partition	BS - 476-Part 20 & 22, IS:3614-Part 2 & IS :3809	up to 240minutes*
Chemical Characteristics		
Acoustic Insulation in dB (Single Board)	ASTM E 90/ISO140-3, ASTM E 413 & IS:9901 (Part III)-1981, ISO: 140 (Part III) - 1995	30 - 32

Acoustic Characteristics		
Acoustic Insulation in dB (Partition System)	ASTM E 90/ISO140-3, ASTM E 413 & IS:9901 (Part III)-1981, ISO: 140 (Part III) - 1995	42 - 65*
Sound Absorption coefficient	IS :8225-1987, ISO :354-1985, ASTM 423-90a	0.70 - 0.85*
Environmental Friendly Characteristics		
Mould/Fungal Growth	IS 4873	Free from Fungal Growth
Termite Resistance	IS 4833	No Termite attack
Borer Resistance	IS 4873	No Borer attack
VOC Organic Emission	ISO 16000-6	Not Detected
Asbestos Identification	X ray Diffraction Method	free from Chrysotile, Anthophyllite, Actinolite & Antigorite Asbestos.
Luminous Reflectance factor in %	ASTME 1477-98A	70

*As per system design