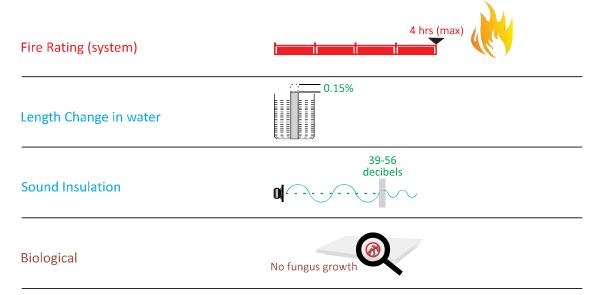




HILUX - The best-rated boards for dry walls



Physical Properties



Properties	UNIT	VALUES	
Thermal Conductivity-K	W/mK	0.18	
Thermal Resistance-R	m²K / W	0.04/0.05/0.06/0.08 for 6 /8/10/12mm thick boards respectively	
Moisture Content	%	Under 15	
Shrinkage Dimension (dry-saturated)	%	0.10	
Alkalinity	рН	10	

Non-combustibility

Non-combustible according to (BS 476:Part 4-1970)

Fire Propagation

Fire propagation index I = 3.79 as per (BS 476:Part 6-1981)



Surface spread of flame

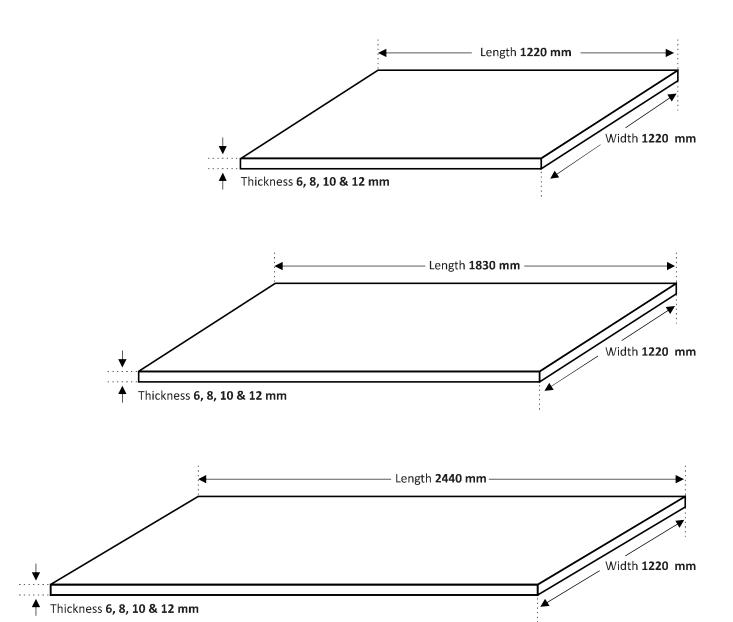
Class - 1 as per (BS 476:Part 7-1971)

Ignitability

'P' not easily ignitable as per (BS 476:Part 5-1968)

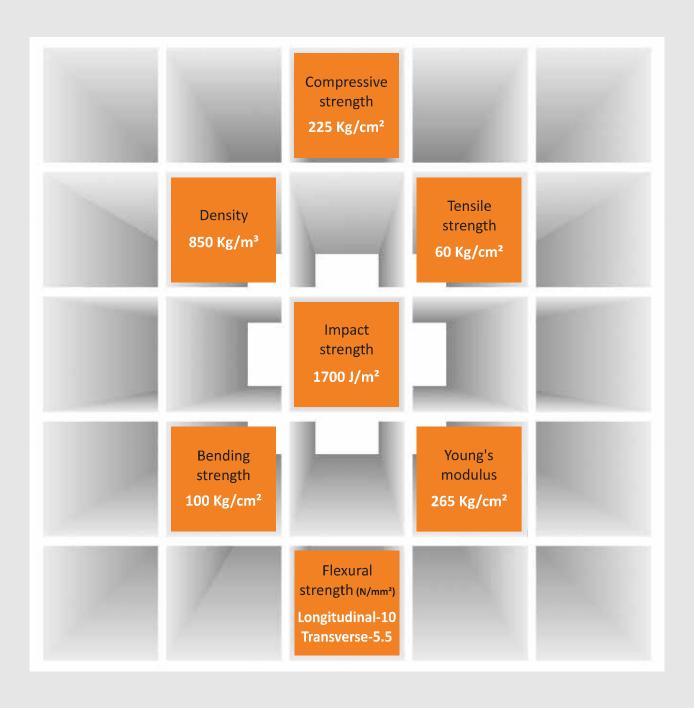


Physical Properties



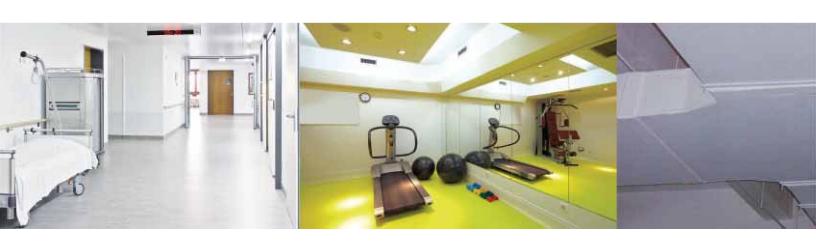


Physical Properties



Applications

Verticals	Features		
Commercial Complexes (Shopping Malls, Theatres, Community Centres and Auditoriums)	Fire Resistance, Acoustic & Light Reflection, Energy Saving, Moisture Absorption, Heat Insulation, Impact Resistance		
Airports and Metro Rail	Light Reflection, Sound Insulation, Moisture Absorption		
Food and Pharma Industries	Light Reflection, Sound Insulation, Moisture Absorption No fungal/bacterial growth		
Textiles	Energy Saving, Workability, Heat Insulation, Sound Insulation		
Hospitals and Laboratories	Sound Insulation, Fire Resistance, Impact Resistance, Water Absorption, Moisture Absorption, Heat Insulation		
Hotels, Resorts and Restaurants	Workability, Fire Resistance, Sound Insulation, Water Absorption, Moisture Absorption, Impact Resistance, Heat Insulation, Energy Saving		
Offices, IT Parks & Educational Institutions	Fire Resistance, Sound Absorption, Water Absorption, Moisture Absorption, Heat Insulation		





Applications	Recommended Areas	
Ceilings, Partitions, Wall Panellings, Columns, Duct Encasements and Fire Doors	Halls, Bathrooms and Toilets, Canteens, Convention Centers, A/C Ducts, Rooms, Conference Halls	
Ceilings, Partitions	Semi-exposed Areas, Bathrooms and Toilets, Corridors	
Ceilings, Partitions, Wall Panellings	Processing Units	
Grid Ceilings	Processing Units	
Ceilings, Partitions, Fire Doors, Duct Encasement	Operation Theatres, ICUs, Reception & Halls, Semi Exposed Areas, A/C Ducts, Rooms	
Decorative Ceilings, Partitions, Fire Doors, Duct and Column Encasements, Wall Linings	Corridors, Receptions, Toilet Areas, Semi-Exposed Areas, Fire Exit Staircases, A/C Ducts, Rooms, Conference and Banquet Halls	
Ceilings, Partitions, Duct and Column Encasement, Wall Paneling, Soffit Lining	Receptions, Meeting Rooms, Class Rooms, Semi Exposed Areas, Exteriors, Canteens & Open Auditoriums, Toilet Areas, Gymnasiums	





Terms & Conditions of Guarantee

The Guarantee is not valid in case of: (1) Boards/Tiles purchased from a dealer/retailer/seller other than those authorised by Ramco Industries Limited (2) Installation, storage and maintenance procedures followed are found to be in contravention to those elucidated on our website www.ramcohilux.com (3) Wilful negligence of user personnel (4) Force Majeure



Certifications

Description	Testing Centre	Code	Result
Non- Combustibility	PSB Corporation, Singapore	BS-476-Part-4-1970	Non-Combustible
Fire propagation Index	CBRI, Roorkee	BS-476-Part-6-1981	I = 3.79
Surface Spread of Flame	CBRI, Roorkee	BS-476-Part-7-1971	Class-1
Ignitability test	CBRI, Roorkee	BS-476-Part-5-1968	"P" Not easily ignitable
Bending strength	Anna University, Chennai	Across the fibre Along the fibre	129 Kg/cm ² 84 Kg/cm ²
Young's modulus	Anna University, Chennai		265 Kg/cm ²
Thermal Conductivity	Nirma University, Ahmedabad	ASTM C1774 ISO 8302	0.18 W/mK
2x10mm Hilux boards on each side of 48mm stud+ 50x48 Kg/m³. Mineral wool in the cavity.	CBRI, Roorkee	BS- 476-Part-20/22	One & Half Hour
2x12mm Hilux board on each side of 48mm stud +50 x 64 Kg/m³. Ceramic wool in the cavity.	CBRI, Roorkee	BS- 476-Part-20/22	Two Hours
1x12mm Hilux board on each side of 48mm stud +50 x 64 Kg/m³. Ceramic wool in the cavity.	CBRI, Roorkee	BS- 476-Part-20/22	Two Hours
3 x 12 mm Hilux Boards on each side 98 mm stud+100 x 64 Kg/m³. Ceramic wool in the cavity	CBRI, Roorkee	BS- 476-Part-20/22	Four Hours
200mm thick partition consisting of 12mm Hilux Calcium Silicate Board + 10mm Hicem Board on either side of a Twin 48mm stud holding 50mm glass wool (48kg/m³) and at centre being 56mm air gap	NPL, New Delhi	IS-9901-PtIII-1981	56 dB
Sound Absorption: NRC 8mm thick Hilux Perforated tile (595x595) mounted on 50mm x 48 Kg/m³ Mineral wool	NPL, New Delhi	As per IS:8225-1987	0.85



Unique Features/Properties



Fire Resistant

Hilux Calcium Silicate Boards have Class-1 surface spread of flame with ignitability as "P" not easily ignitable, hence can provide good fire resistance in the range of 30 minutes to 240 minutes, depending on the construction design.



Water Resistant

Hilux Calcium Silicate Boards, when immersed in water for 24 hours, will loose its strength marginally but regains its full strength as soon as it is dry. Hence it is a water resistant board and can be used in high humidity areas or where there is a risk of water coming in contact with the board.



Termite Resistant

Hilux Calcium Silicate Boards are made of inorganic minerals and have stable crystalline structure. This makes the boards termite resistant, and the material does not aid in fungus growth.



Dimensional Stability

The boards are auto-claved (high pressure steam curing) which results in an irreversible chemical change, thus providing high dimensional and chemical stability accompanied by low alkalinity.



Strong & Durable

The stable crystalline structure makes the boards strong and durable. The boards are strong enough to take normal impacts. They do not degrade or deteriorate physically.



Light Weight

Hilux boards are light in weight therefore can be handled easily. Its dry density is 850 Kg/m³.