





Vibrant, energetic design

to pep up the active ambience

Inspirational and interactive design

for the entertainment ambience

Stimulating, intriguing design

for the thinking ambience

Calm, subdued design

for the relaxation ambience

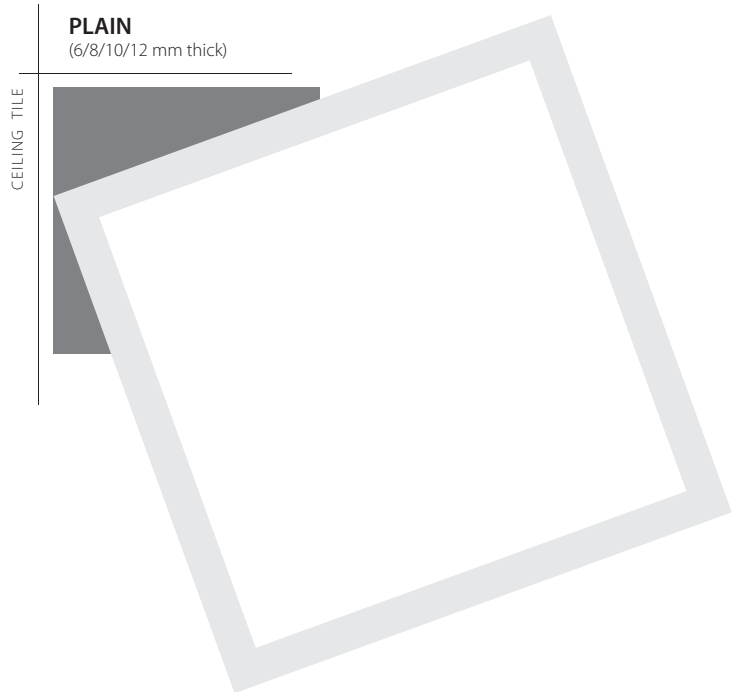
Eye-catching, fascinating design

for the guest ambience



Hilux range of tiles are a novel innovation in the world of interiors and exhibit all the core properties of calcium silicate boards.

It is available in 595 mm x 595 mm and 610 mm x 610 mm sizes with different designs and thicknesses. These tiles impart an exquisite appearance to the building interiors along with functional benefit of noise reduction. Unlike ordinary tiles, Hilux tiles are very strong and durable.

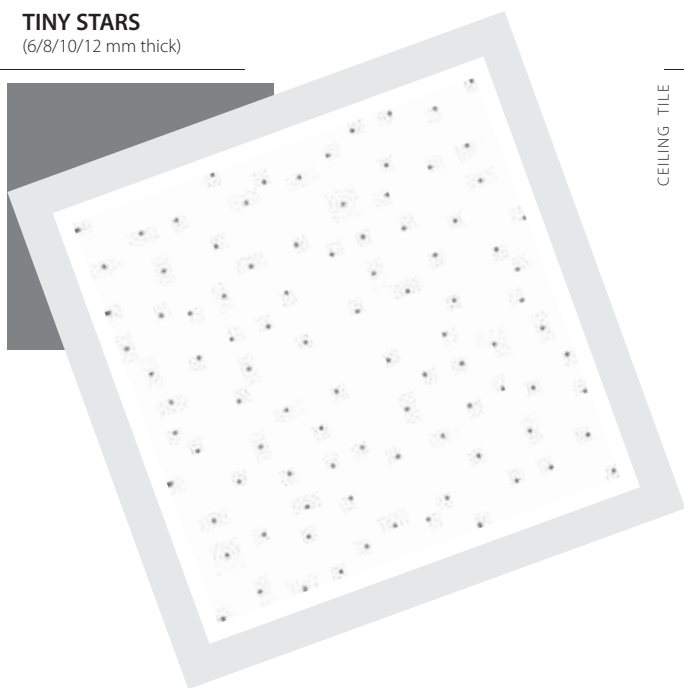




TINY STARS

(6/8/10/12 mm thick)

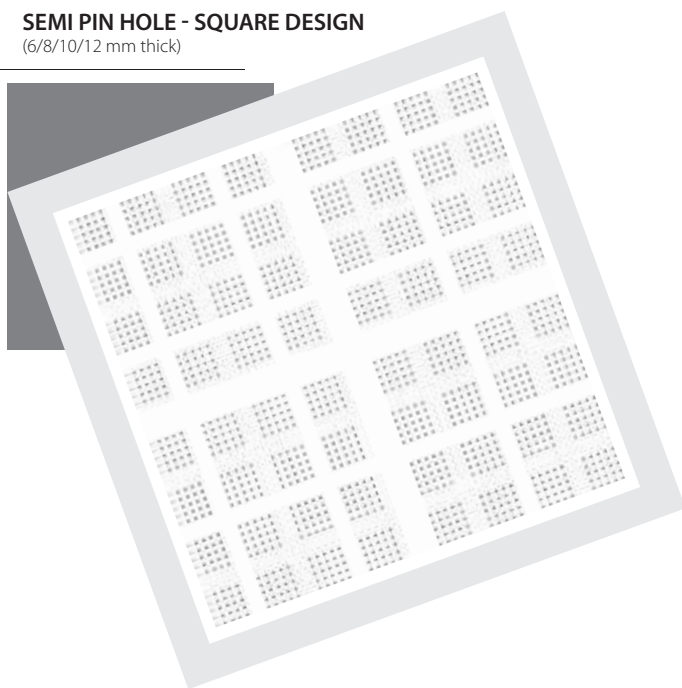
CEILING TILE



SEMI PIN HOLE - SQUARE DESIGN

(6/8/10/12 mm thick)

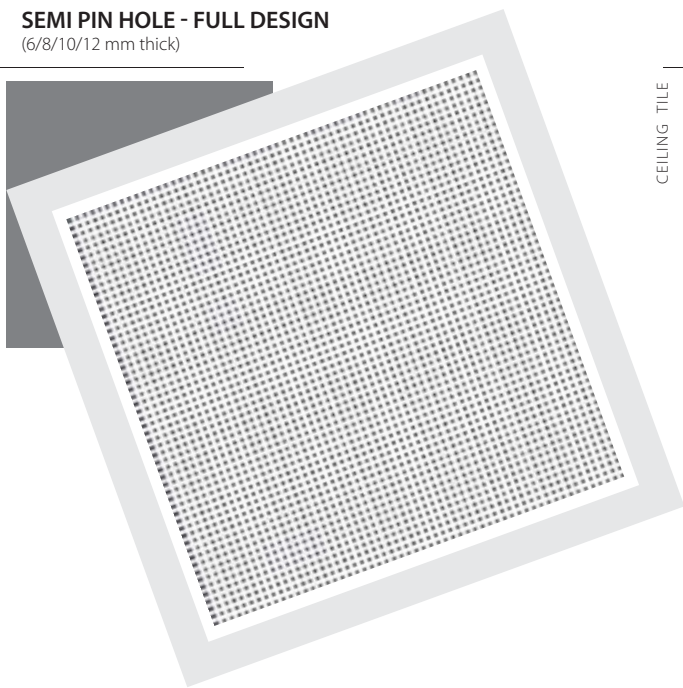
CEILING TILE





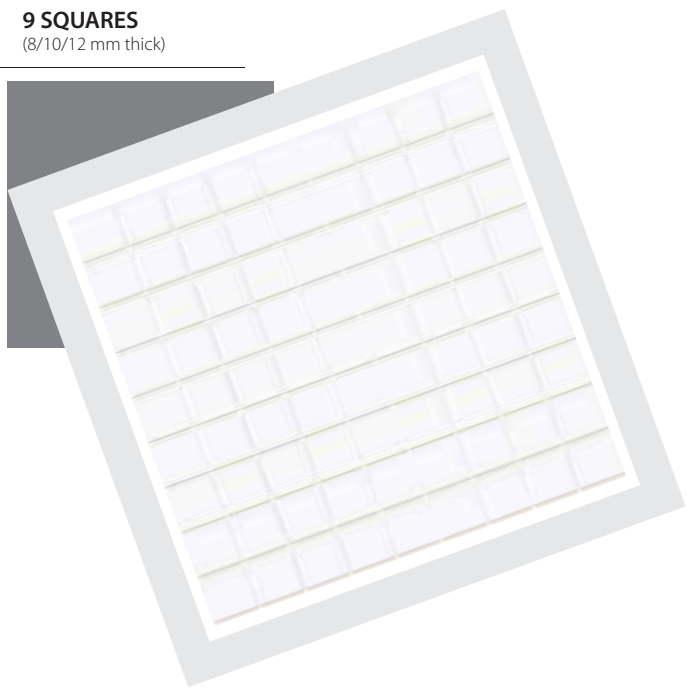
SEMI PIN HOLE - FULL DESIGN
(6/8/10/12 mm thick)

CEILING TILE



9 SQUARES
(8/10/12 mm thick)

CEILING TILE



Sound.

**It is
all around us.**

We are so used to it and we take it for granted.
We use sound to evoke certain emotional states
in us or amongst our audience.

But what is the right recipe for sound ?

It depends on what and how much we want to hear or want our audience to hear.
Herein lies the science of architectural acoustics - which is useful, inspiring and
helping in creating the right ambience in spaces we design.

Sound can be **too high** or **too low**,
it can be **soft** and it can be **shrill**,
it can be **soothing** and it can be **annoying**.

Various measurement parameters have been defined by the architectural,
building and sound industries to assess
and measure the intelligibility,
reverberation and
blocking of sound.

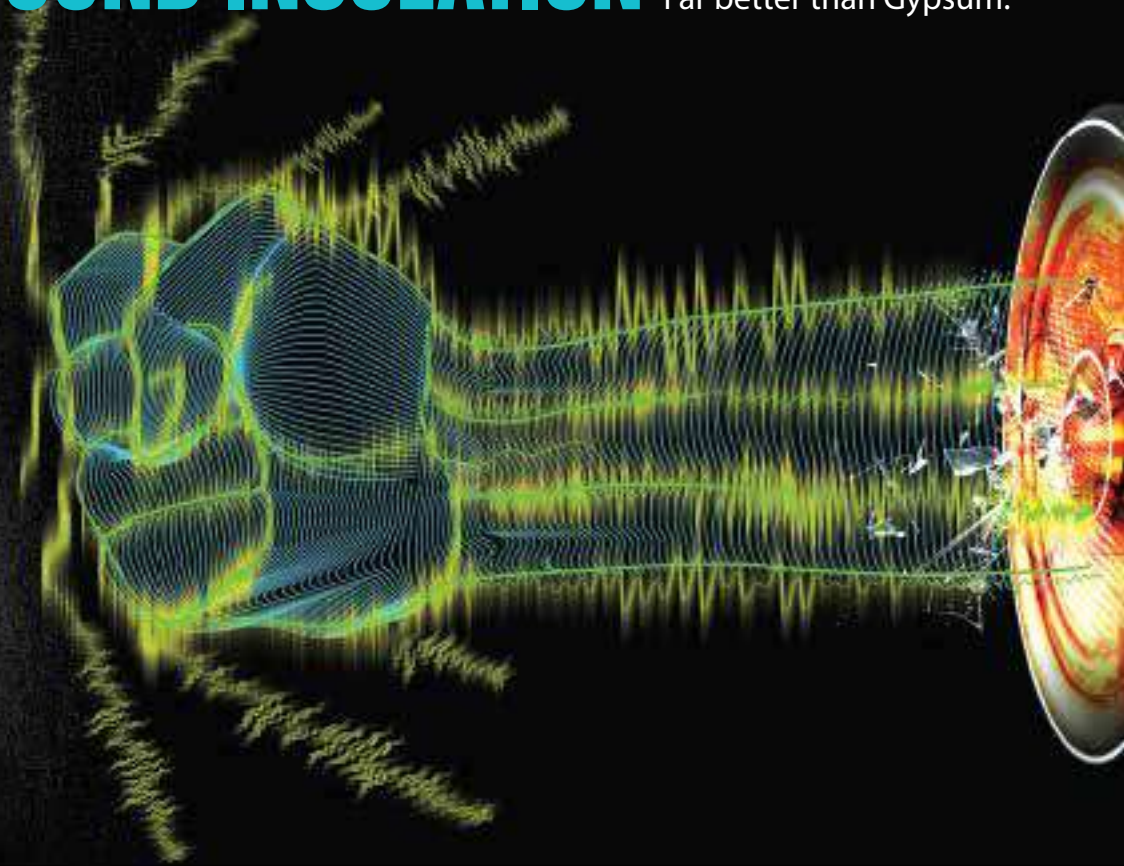
**Noise Reduction Coefficient (NRC)
and
Sound Transmission Class (STC) are
two such measures.**

**At Hilux, our acoustic experts have evolved
a range of ceiling tiles which not only address varying
acoustic needs but also
offer a choice of designs and patterns.**

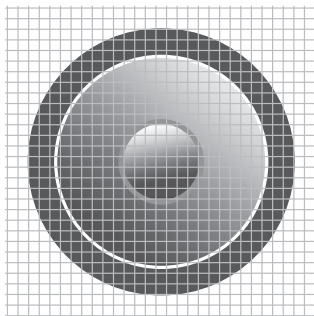
RAMCO
HILUX
CALCIUM SILICATE Dry Walls & Ceilings

SOUND INSULATION

More than Plywood.
Far better than Gypsum.



Excellent acoustics with transmission class between 39 - 56 dB



39-56dB

Sound Insulation

SOUND INSULATION

Ramco Hilux Boards also have great acoustic properties, with sound transmission class between 39 to 56 dB, helping to minimize sound generated in the work environment.

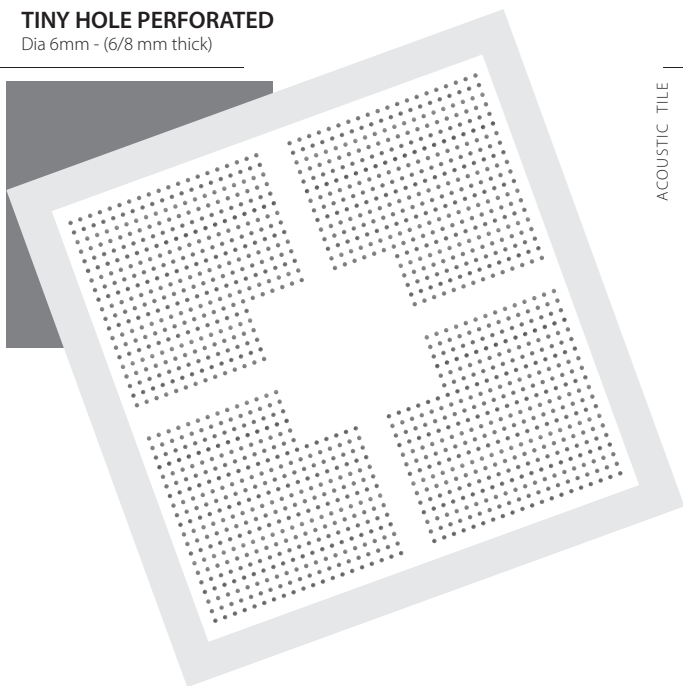
Ramco Hilux Board's off-white surface is very hard and smooth and an excellent reflector of light when compared to other boards. Not only does this result in brightening up of working environment, it saves energy as well.



TINY HOLE PERFORATED

Dia 6mm - (6/8 mm thick)

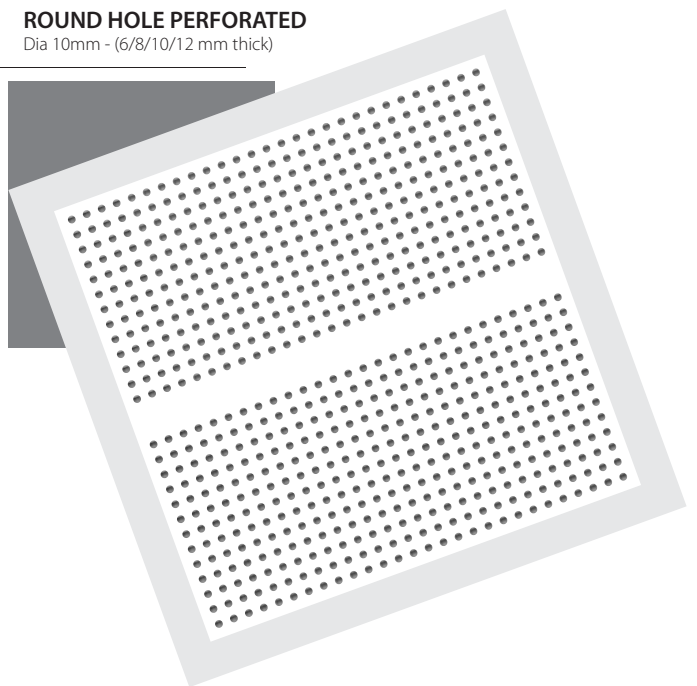
ACOUSTIC TILE



ROUND HOLE PERFORATED

Dia 10mm - (6/8/10/12 mm thick)

ACOUSTIC TILE

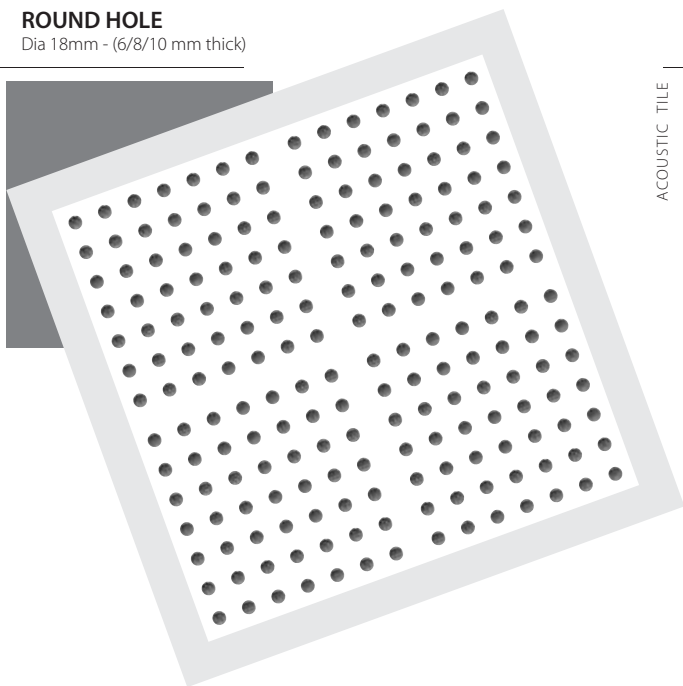




ROUND HOLE

Dia 18mm - (6/8/10 mm thick)

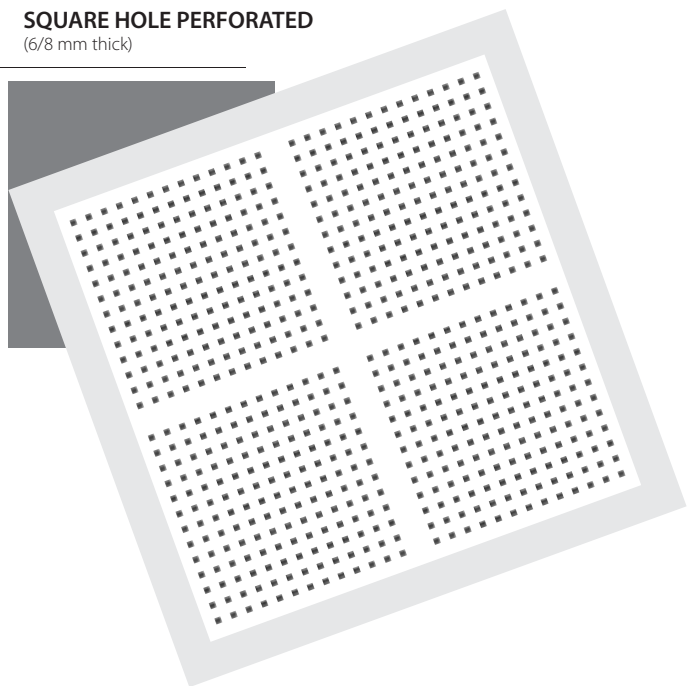
ACOUSTIC TILE



SQUARE HOLE PERFORATED

(6/8 mm thick)

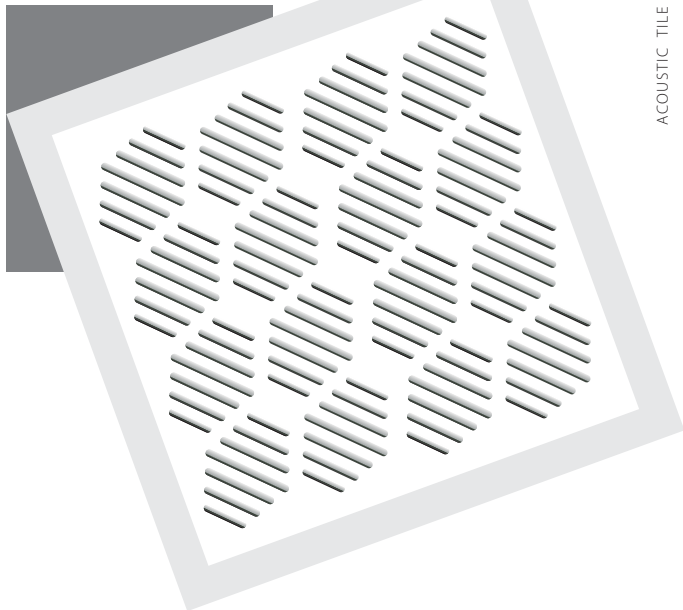
ACOUSTIC TILE





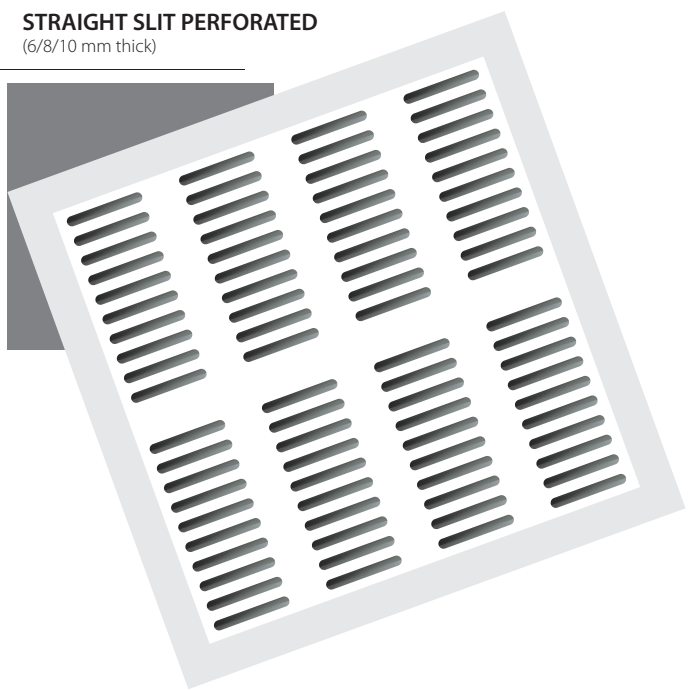
RANDOM SLIT PERFORATED
(6/8/10 mm thick)

ACOUSTIC TILE



STRAIGHT SLIT PERFORATED
(6/8/10 mm thick)

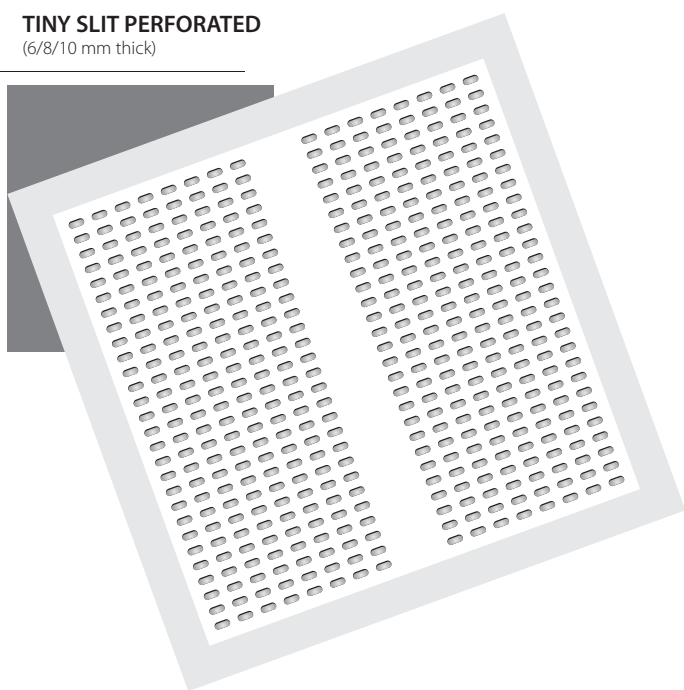
ACOUSTIC TILE





TINY SLIT PERFORATED (6/8/10 mm thick)

ACOUSTIC TILE



Hilux - Range of Acoustic Tiles

Hilux acoustic tiles, being perforated and backed by non-woven cloth in black/white colour, offer excellent acoustic functionality with NRC (Noise Reduction Coefficient) value of 0.70 - 0.85 with a backing of 50/100 mm rock/glass wool at 48 Kg/m³ density.

LIGHTWEIGHT Lighter than Wood.
Much more lighter than brick and mortar.

Light in weight with superior properties

Why are HILUX Tiles

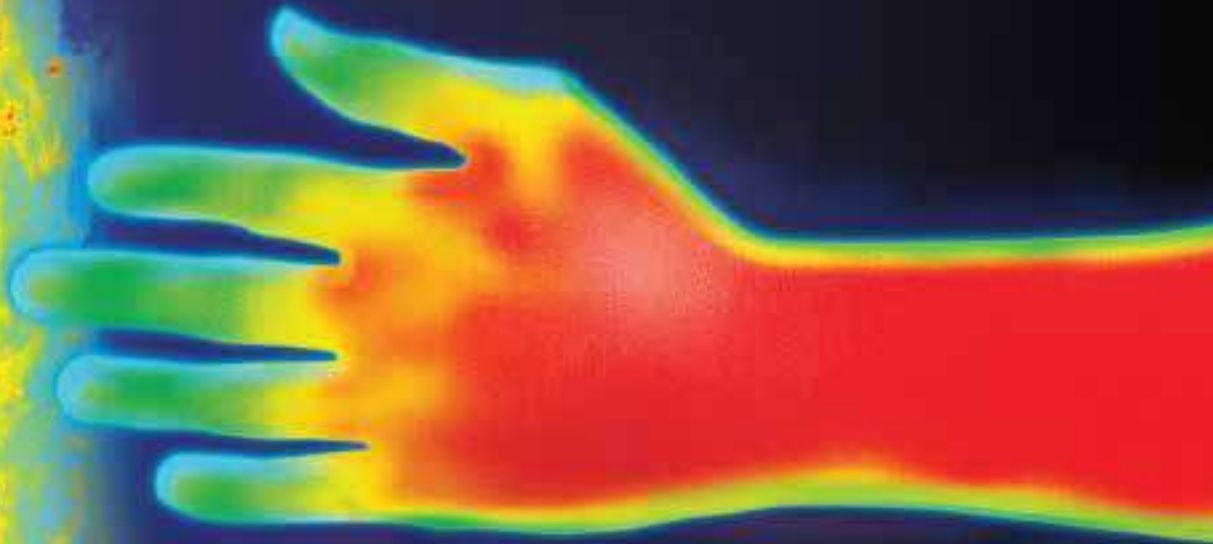
LIGHT WEIGHT

Ramco Hilux Tiles are very light in weight, having dry density of 850 Kg/m³. The 6/8 mm boards of size 1220 mm x 610 mm would weigh approx. 4 and 5 Kgs respectively. This helps in reducing structural cost.

RAMCO
HILUX
CALCIUM SILICATE Dry Walls & Ceilings

THERMAL INSULATION

More than Wood.
Much more than
plastic, rubber and glass.



Minimises heat transfer in buildings, up to 40% energy and cost savings

best suited for Ceilings

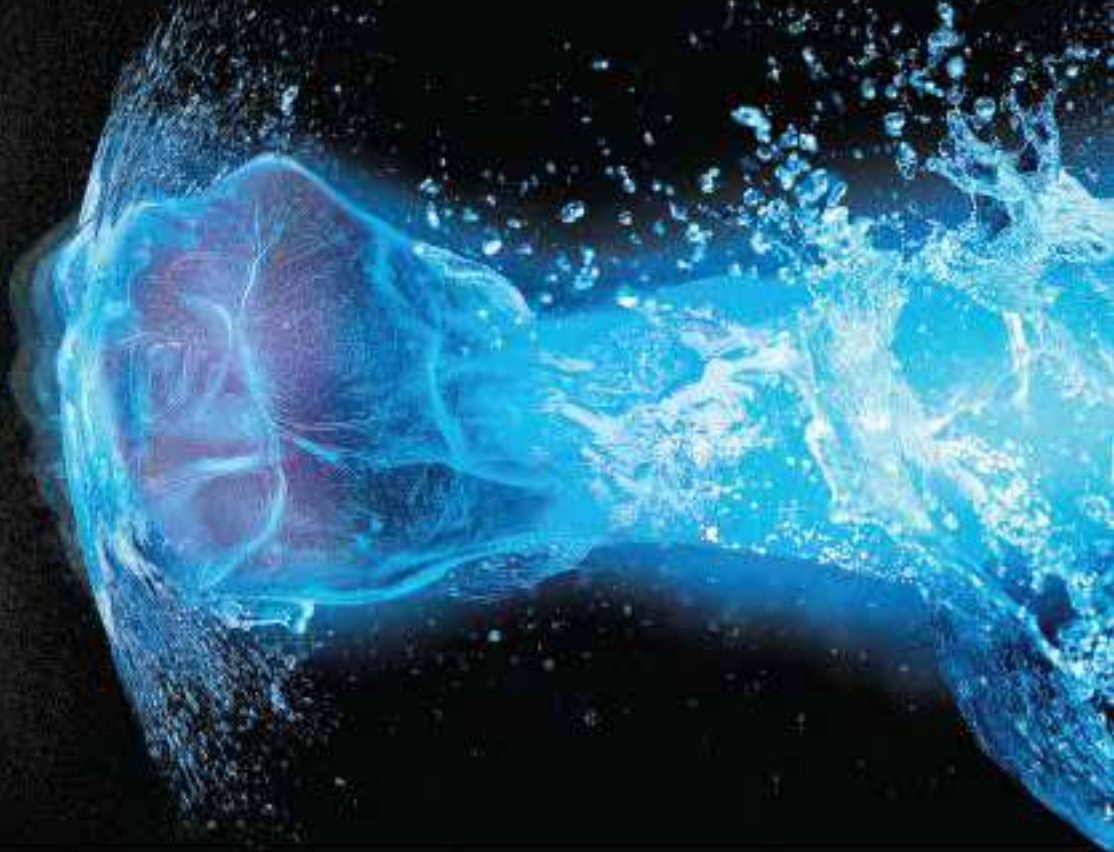
THERMAL INSULATION

Ramco Hilux Tiles have excellent thermal insulation properties which maintains the required humidity levels and saves energy costs.

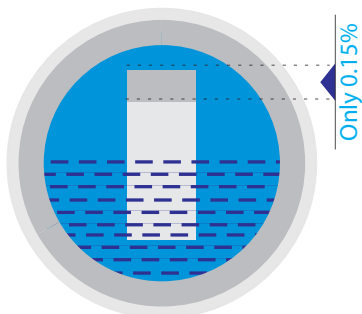
RAMCO
HILUX
CALCIUM SILICATE Dry Walls & Ceilings

WATER RESISTANCE

More than Plywood.
Far better than Gypsum.



The only board dimensionally stable after 24-hour soaking in water!



Length Change in Water

WATER RESISTANCE

Ramco Hilux Tiles do not lose their dimensional strength even when exposed to moisture. Other light-weight boards, like Gypsum, cannot withstand such humid conditons without having suitable coating on all sides of the board.

The coatings too do not last long. Once the effect of the coating wanes, it cannot be redone. Thus the cost of coating not only makes plaster boards costlier but also unsuitable for the purpose. Hilux tiles can withstand 99% Relative Humidity - its expansion in water is the least (0.15%) as against >2.5% in asbestos cement sheets. It can also withstand temperatures as high as 50°C without any change in its shape and size.

RAMCO
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CALCIUM SILICATE Dry Walls & Ceilings

FUNGUS RESISTANCE

More than Plywood.
Far better than Gypsum.



The only board with zero fungus growth ensuring clean and healthy environment

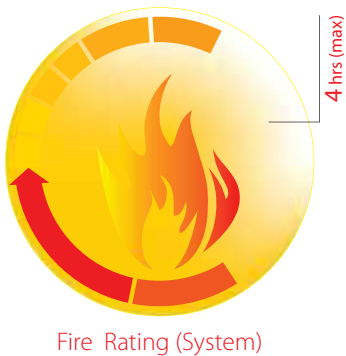


No Fungus growth

FUNGUS RESISTANCE

Humid environment is an ideal breeding ground for micro-organisms like fungus and bacteria. Ramco Hilux Tiles resist any such growth and keep the environment clean and healthy.

FIRE RESISTANCE



Combustibility

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

Surface spread of flame

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

Fire Propagation

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

Ignitability

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

Properties	Unit	Values
Thermal Conductivity-K	W/mK	0.18
Thermal Resistance-R	m ² K/W	0.03/0.04/0.05/0.06 for 6 /8/10/12mm thick boards respectively
Moisture Content	%	Under 15
Shrinkage Dimension (dry-saturated)	%	< 0.2
Alkalinity	pH	10



Unique Guarantee

Such is the confidence we have in the performance of our products that we are offering a 15-year Warranty on our Boards and a 25-year Warranty on our Tiles, covering free replacement of the Boards or Tiles if they deteriorate owing to a manufacturing defect.

Terms & Conditions of Guarantee:

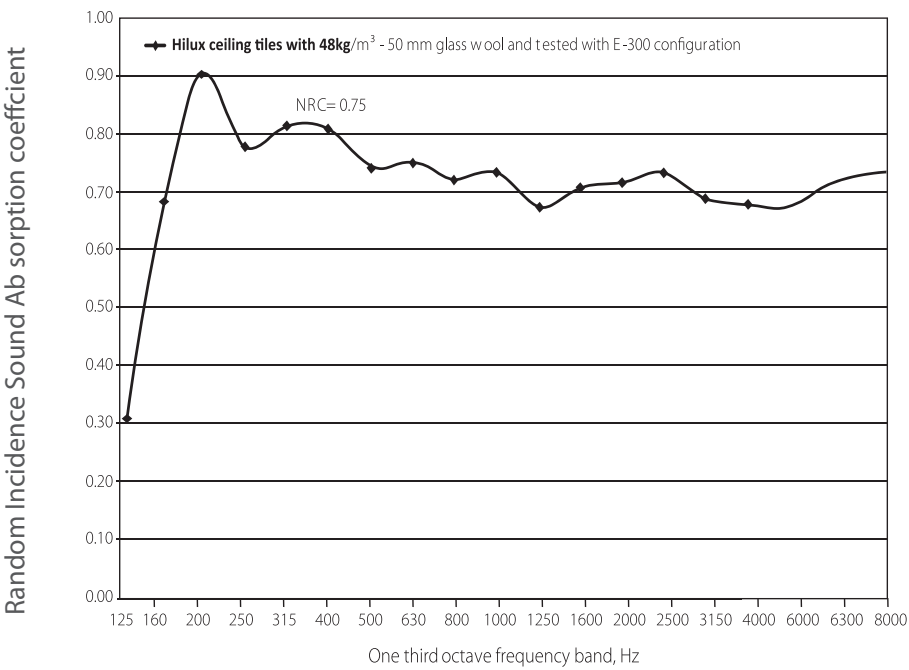
The Warranty is not valid in case of

1. Boards/Tiles purchased from a dealer/retailer/seller other than those authorized by Ramco Industries Limited.
2. Installation, storage and maintenance procedures followed are found to be in contravention to those outlined on our website www.ramcohilux.com.
3. Only on usage of Hilux accessories in your installations.
4. Wilful negligence by user personnel.
5. Force Majeure.

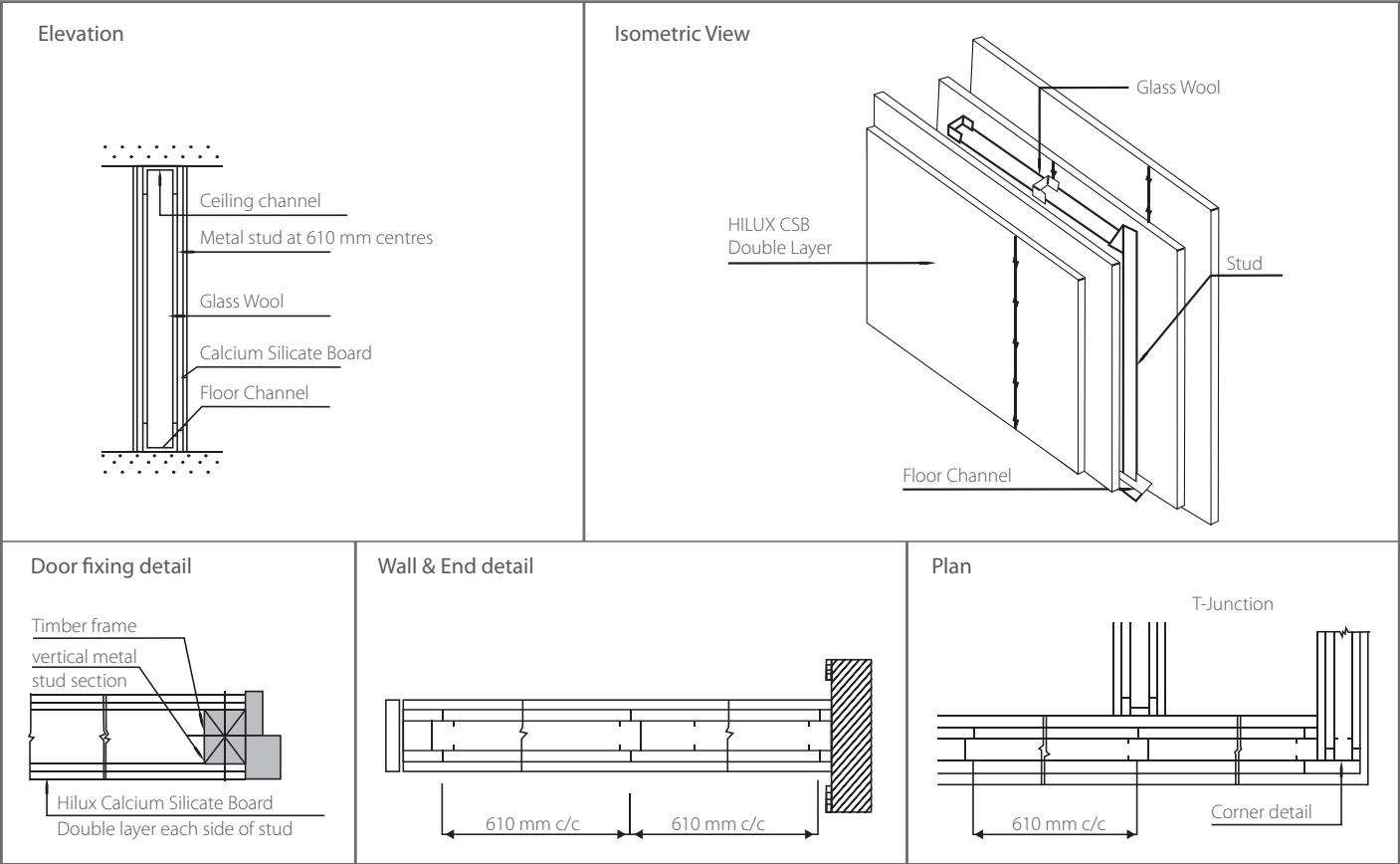
SOUND TRANSMISSION CLASS

One Third Octave Frequency, HZ	Sound Transmission Loss, dB
100	36.0
125	37.0
160	42.3
200	40.6
250	44.0
315	46.0
400	49.0
500	54.1
630	67.8
800	61.1
1000	63.6
1250	65.7
1600	68.3
2000	68.0
2500	61.9
3150	55.3
4000	60.2
5000	64.9
6300	70.1
8000	72.4
STC	56
R _w (C, C _{tr})	55 (0;-6)

NOISE REDUCTION CO-EFFICIENT



HILUX SPECIFICATION - SOUND INSULATED PARTITION



- HILUX Board: 6' x 4' - 2 x 12 mm (Each side)
- Glass Wool: 48 Kg/m³, 100 mm thickness
- Door fixing detail: Double layer board in each side of stud

Certifications

Description	Testing Centre	Code	Result
Combustibility	PSB Corporation, Singapore	BS-476-Part-4-1970	Non-Combustible
Fire Propagation Index	CBRI, Roorkee	BS-476-Part-6-1981	1=3.79
Surface Spread of Flame	CBRI, Roorkee	BS-476-Part-7-1971	Class-1
Ignitability	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 C177 & ISO 8302	0.18 W/mK
1 x 12 mm Hilux board + Fillet on each side of 48 mm stud + 50 mm x 48 Kg/m ³ . Ceramic wool in the cavity.	CBRI, Roorkee	BS-476-Part-20/22	One Hour
2 x 10 mm Hilux boards on each side of 48 mm stud + 50 mm x 48 Kg/m ³ . Mineral wool in the cavity.	CBRI, Roorkee	BS-476-Part-20/22	One & Half Hour
2 x 12 mm Hilux board on each side of 48 mm stud + 50 mm x 64 Kg/m ³ . Ceramic wool in the cavity.	CBRI, Roorkee	BS-476-Part-20/22	Two Hours
1 x 12 mm Hilux board + Fillet on each side of 48 mm stud + 50 mm x 64 Kg/m ³ . Ceramic wool in the cavity.	CBRI, Roorkee	BS-476-Part-20/22	Two Hours
3 x 12 mm Hilux Boards on each side of 98mm stud + 100 mm x 64 Kg/m ³ . Ceramic wool in the cavity	CBRI, Roorkee	BS-476-Part-20/22	Four Hours
2 x 12 mm Hilux Boards on each side of 146 mm stud + 100 mm x 48 Kg/m ³ . Glass wool in the cavity.	ARAI, Pune	ASTM E-90/150 10140-2 ASTM E-413	56 dB
Sound Absorption: NRC 8 mm thick Hilux Perforated tile (595 x 595 mm) mounted on 50 mm x 48 Kg/m ³ . Mineral wool in the cavity	NPL, New Delhi	As per IS : 8225-1987	0.85
Sound Absorption : NRC 10 mm thick Hilux board	NPL, New Delhi	As per IS : 8225-1987	0.30



ENGINEERING



IT SECTOR



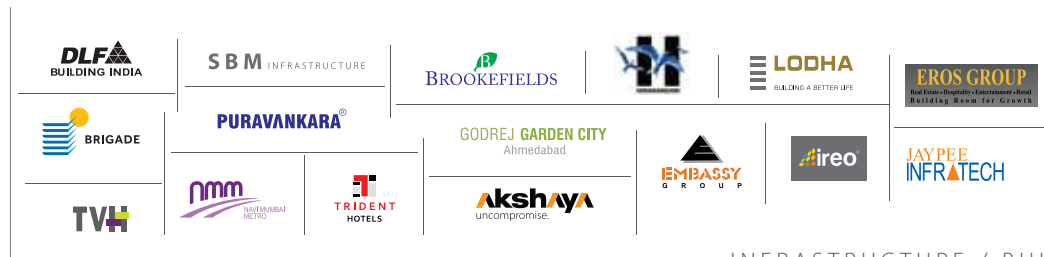
PHARMA / HOSPITALS



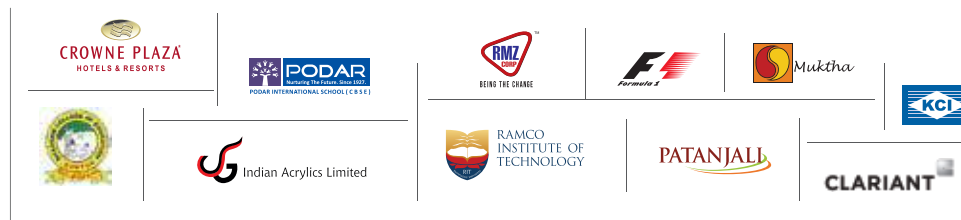
GOVT. SECTORS



TEXTILES



INFRASTRUCTURE / BUILDERS



OTHERS



Ramco Industries

Ramco Hilux is manufactured by Ramco Industries Limited, a part of the US\$ 1 billion Ramco Group with interests in cement, dry walls & ceiling products, cotton yarn, surgicals & software. Ramco Industries is one of the leading building materials manufacturers in South Asia and has been in the forefront of innovation, answering perplexing challenges with definitive solutions.

Ramco Hilux is manufactured at the ISO 9001 & ISO 14001 certified state-of-the-art plant in Keshwana, Rajasthan and distributed across India through its 300-strong dealer network.



Boards	Accessories
Chroma Walls	Finishing Jointing compound, Fibre mesh tape
Wall Woods	
Visual Walls	Frame work accessories G.I. Channels, Connecting Clip, Soffit cleat, Rawl Plug
Marble Walls	
	Minor accessories Self drilling and tapping screws



Corporate Office:

Ramco Industries Limited

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