



Other Applications



Mezzanine Flooring



Army Barracks, Kargil



Guest House, Alsthom



Industrial Cladding



Residential Quarters



ATM Centre

For further details, please visit our website www.hil.in
or contact any of our offices listed elsewhere in our folder.



The Changing Face of Interiors

- Banks
- Hotels
- Offices
- Cyber Cafes
- Show Rooms
- Control Rooms
- Residential Buildings
- Educational Institutes



Partitions that stand apart



Corporate Profile

Redefining building dynamics for the changing times.

Times are changing and change is the only constant in man's quest for a better life. At Hyderabad Industries Ltd, the focus of our corporate mission is to provide innovative yet cost effective solutions to the building industry through its popular Charminar range of products. From low cost roofing to partitions and panelling, false-ceiling to mezzanine flooring... and high quality building blocks to India's first ever thermal roof tiles to keep weather under control.

We are working constantly to create and respond to emerging opportunities. Supporting these efforts are our unique strengths in R & D, production, marketing and an all-India distribution network to put our products and solutions within your reach.

AEROCON PANEL SYSTEM: HIL's total solution concept in Space Management

In today's world of space constraints, management of available space is more than an art and science. It is a practical necessity. With its long years of experience in the building industry, Hyderabad Industries responded to this challenge bringing to you a complete partition panel system as a total solutions concept that is regarded as one of the best in the industry: **Aerocon Panel**.

In association with our business partners, we undertake turnkey jobs anywhere in India and elsewhere for specific applications. Our technical cell at Hyderabad is fully equipped to offer you custom-made proposals in all these areas at an economical cost.

Aerocon panels embody all the advantages desirable for construction of partitions in terms of strength, durability, elegance and ease of installation for a range of utilities. From offices to hospitals, R&D labs to cyber cafes and many more.



Technical Specifications			
PROPERTIES	THICKNESSES		REMARKS
	50mm	75mm	
Weight (nom) per sq.m. (Kgs)	43	60	Nominal weight@
Axial load/metre width (KN/m)	53	83	Factor of Safety - 2.5
Bending Test (4 point UDL)			
Uniformly distributed load			
(Kg/m ²)			
2.9 M span	73	100	Factor of Safety - 2.5
1.5 M span	198	265	
Flexural Strength/Modulus of Rupture (Kg/cm ²)	67	58	Typical Test results
Compressive Strength (Kg/cm ²)	30	40	Typical Test results
Thermal Conductivity (W/m deg. K)	0.22	0.21	BS 4370-Part 2
Sound transmission co-efficient (db)	33	36	IS : 9901 (Part III)-1981
(Typical Test result of Prasara Bharati and National Physical Laboratories)			IS : 11050 (Part I)-1981
Fire rating (minutes)*	60	120	BS 476 Part 20-22
Surface spread of flame*	Class I		BS 476 Part 7-1971
Fire Propagation Index (I)*	3.7		BS 476 Part 6-1981
Ignitability*	Class ‘P’ (not easily ignitable)		BS 476 Part 5-1968
Standard Sizes :			
Length	-	2.4m, 2.7m, 3.0m	
Width	-	600mm	
Note : The above specifications are based on typical test result of AEROCON panels with Flex-O-Board and are subject to revision.			

* As per test result of CBRI, Roorkee.
@ Could vary due to change in moisture content.
Product patent no. 188942



Partition done at NIFT.



BPL Office at Mumbai.



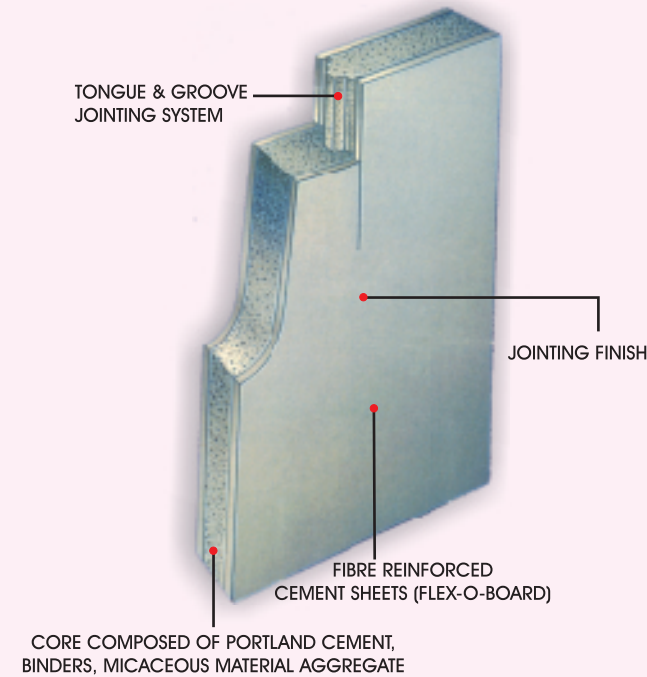
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AEROCON PANEL SYSTEM



DSIR National Award for R&D efforts in the area of new materials.



National Award for Fly Ash Utilisation awarded to HIL for manufacture of Fly Ash based Aerocon Panel BY
Min. of Power, MOEF, Dept of Science & Technology Govt. of India on 4th Dec.2005

ADVANTAGES

Fast Track Construction

Easy to Install

- **Tongue and groove joining System** allows faster construction.

Light Weight

- **Easy workability**-no special tools required.

Saves Time

- **Lightweight** panels allow easy handling and erection.
- **Factory cured panels** eliminate need for on-site curing.
- **Re-locatable** - complete structure can be dismantled and re-erected.

Strong & durable

Durable

- Panels are manufactured from high quality materials imparting adequate **strength and long life**.

Water Resistant

- Excellent **water, termite and fire resistant** properties to withstand adverse weather conditions.

Termite Resistant

- **Fire rating** - 50mm panel - 1 hour (non load bearing) 75mm panel - 2 hours (load bearing)
- **Most suitable for seismic and cyclone prone zones**

Other Advantages

Fire Resistant

- **Excellent surface finish** - takes all decorative treatments.

Sound Insulation

- **Excellent thermal and sound insulation** properties.



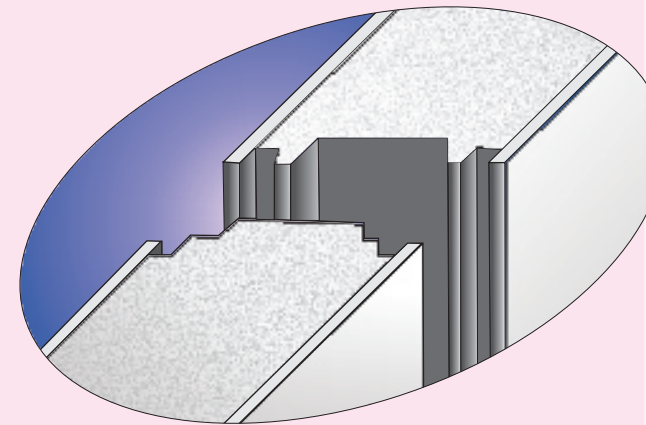
Saves Space

- Slim Aerocon panels provide **extra usable floor space**.
- Usage of fly ash and timber-free AEROCON makes it **Eco-friendly**.

What is Aerocon

Aerocon is a sandwich panel of two fibre-reinforced cement sheets enclosing a light-weight core composed of portland cement, binders and a mix of siliceous and micaceous material aggregate. What's more, these panels are fully cured.

Aerocon's unique tongue and groove joining system facilitates rapid construction with minimum effort.



In recognition of its outstanding work in the development of Aerocon panels, HIL bagged the DSIR National Award for R & D efforts in Industry in the area of new materials for the year 2000, from the Dept. of Scientific & Industrial Research, Govt. of India.

Aerocon Advantages

~ A Complete Solutions System

Aerocon Sandwich panels are more than just plain sheets. They are offered as a total system with a tongue and groove joining system along with accessories like pre-designed steel channels. These panels slide in and rest snugly at the base, and you have a ready-made system for easy and rapid assembly.

~ All the Strength for all the Toughness

Aerocon panels are strong enough to withstand the rough and tumble of everyday life.

Mainly because of their high strength-to-weight ratio, they are capable of taking normal to hard knocks and pressure in their stride.

~ Moisture Resistance

Aerocon panels resist moisture from seeping in either from the atmosphere or even from accidental spills. They are also dimensionally stable and warp-free, a definite plus for longevity.





~ Fire-Resistance

Aerocon panels are non-combustible. These have been tested at CBRI Roorkee for their fire resistance property as per BS476 and found to be fire rated for 1 hr. for 50mm and 2 hr. for 75mm thickness panels. What's more, no toxic fumes are emitted in case of fire, making them very safe and ideal for use in sensitive areas.

~ Resistance to Termites & Rodents

Aerocon panels are not susceptible to attack by termites or rodents. Aerocon partitions, therefore, stay clean and intact for a long, long time.

~ Excellent Surface Finish

The smooth surface of Aerocon panels allows them to take a range of surface finishes like paint, wall-papering and other decorative treatments as desired.

Recessed Aerocon panels can also be supplied alongwith fibre-mesh tape and jointing compound to give you a seamless finish. Aesthetically, Aerocon partitions impart a high degree of elegance to interiors making it a product of choice.

~ Thermal Insulation

Aerocon panels impart good thermal insulation and hence are most suitable in tropical weather conditions. This helps in saving on air conditioning and energy costs.

~ Acoustic Insulation

Aerocon panels offer excellent insulation against sound and noise. STC rating of 33-36 db makes them most suitable for hospitals/nursing home, libraries, schools and offices where the need for peace and quiet is paramount.

~ Ease of Installation

Aerocon tongue & groove joining system allows faster construction. Aerocon panels can be easily worked with conventional carpenter's tools and is, therefore, easy to install.

They are easily transportable because of their light-weight and aids speedy installation.

