HIL
CK BIRLA GROUP

BIRLA AEROCON
BUILDING SOLUTIONS

BIRLA AEROCON PANELS

FAST-TRACK, LIGHT-WEIGHT DRY-WALL CONSTRUCTION

Birla Aerocon Panels

Birla Aerocon Panels are made of two fibre reinforced cement facing sheets on either side of a light-weight concrete core. Our unique ready-to-install Birla Aerocon Panels are poised to revolutionise building construction, taking it to a whole new level. Birla Aerocon Panels have become an ideal solution for dry walls and partitions.

Key Features

- **High Axial Strength**
- **Light Weight**
- **Strong & Durable**
- **Termite Resistant**
- **Fire Resistant**
- **Sound Insulation**
- **Space Saving**
- **Pre-Cured**
- **Water-Resistant**
- **Tongue & Groove Technology**

Birla Aerocon Benefits

Savings

- **Cost:** Light-weight, therefore results in structural savings up to 20%.
- **Time:** 10-20 times faster to construct.
- **Labour:** Pre-cured and ready-to-use, therefore eliminates on site curing.

Services

- **Support:** Design and BOQ.
- **Training:** Regularly conducted on the use of Birla Aerocon Panels.
- **Feedback:** Site visits and feedback on the Birla Aerocon Panels work.

Strength

- **Solid & Sturdy:** Cement-based panels.
- **Compressive Strength:** High axial compression and bending.
- **Long Lasting:** Durable Products.

Sustainable

- **Saves resources:** Cement and sand are not required during construction or finish.
- **Reusable:** The unique tongue & groove joint makes it easy to install and uninstall.

Safe

- **Fire:** Highly resistant.
- **Weather:** Can withstand adverse conditions.
- **Termite and water-resistant:** Doesn't permit the growth of bacteria and fungus.Highly resistant to termite and water due to the superior nature of raw material used.
- **Toxic emissions:** None.

Space

- **Thinner Walls:** Provides additional carpet area up to 5%.

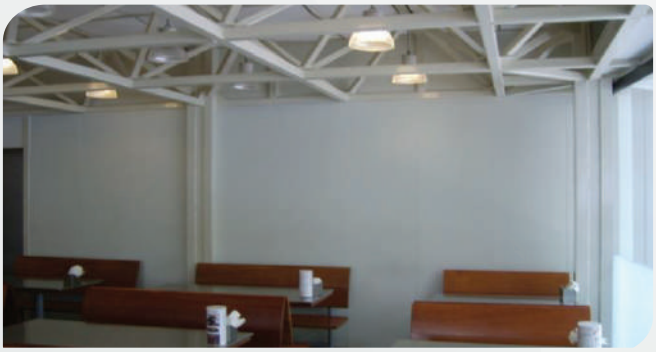
Versatile Applications:

School
Office
Mall
Restaurant
Defence
Industrial Complex
Commercial Building
Warehouse
Housing & Residential

Application Areas:

- Prefab structures
- Full and half height partitions
- Mezzanine flooring
- Compound wall
- Fire separation wall
- Residential partitions
- Fins





Technical Specifications - Birla Aerocon Panels**

Properties	Thickness		Remarks
	50 Mm	75 Mm	
Nominal weight (Kg/Sqm)	40	57	Nominal weight@
Apparent Density (Kg/m^3)	780	720	IS 2380:Part 3
Axial load/meter 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	66	95	Factor of safety – 2.5
1.5 m span	198	265	
Flexural strength/modulus of rupture (Kg/cm^2)	67	58	Typical test results
Thermal conductivity (W/m°K)	0.22	0.21	BS 4370_Part 2
Sound Transmission Class (dB) (Typical test results of Prasar Bharati and National Physical Laboratories)	33	36	IS: 9901 (Part III) – 1981 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'		BS 476 Part 5 – 1968
	(not easily ignitable)		

**Terms and Conditions Applied

Standard Sizes:
Length — 2.4 m, 2.7 m, 3.0 m | Width — 600 mm

Note: The above specifications are based on typical test results of Birla Aerocon Panels with Flex-o-Board (conforming IS 14862 : 2000 (Type A)).

Note: Mechanical properties will vary due to change in moisture content in Panels.

* As per test results of CBRI, Roorkie. @ As per test results of Prasar Bharati, New Delhi.

As per the results of Spectro lab Delhi.

Birla Aerocon Panels Installation:

Steps:

1. Fix ceiling and floor channels.
2. Erect the panel and align.
3. Apply jointing material in tongue & groove joint.
4. Apply jointing material and fibre mesh tape to the surface joint.
5. Now, the surface is ready for any finish including paint, tiles, wallpaper, texture etc.

Backed by the Leaders

HIL, a Leading name in the Indian building material solutions industry, is a part of the renowned C.K Birla Group, which is $2.4 billion business conglomerate. HIL's green building brand-Birla Aerocon, comprises a portfolio of eco-friendly products that are the result of cutting edge technology aimed at offering customers a wide range of world class products.

HIL TOGETHER, WE BUILD.

HIL Limited, 7th Floor, SLN Terminus, Gachibowli-Kondapur Road, Hyderabad - 500032, India.
Ph: +91 40 30999 000, **Fax:** +91 40 2370 2400, **Tollfree:** 1800 4254 2599,
Email: birla.aerocon@hil.in. **Follow HIL Limited on:**

Scan to know more:
www.hil.in