



The Most Advanced  
**NON-ASBESTOS**  
cement roofing  
sheets





# A VISIONARY HOUSE AND ITS SUPERBRANDS

The CK Birla Group is a visionary Indian Conglomerate presently valued at INR 12,000 Cr. The Group Boasts of a history of enduring relationships with renowned global companies. Home to 20,000 employees, 24 manufacturing facilities and numerous patents and awards, the group's businesses are spread across five continents. The group operates across three industry clusters, namely, technology and automotive, home and building, and healthcare and education.

HIL Limited is a 70 years old Indian building materials company that owns the roofing Superbrand, Charminar. HIL commenced production of Charminar roofing sheets in 1946 and post-independence, took up the challenge of serving the nation by providing the much needed affordable and durable roofing solutions. Therefore, today, HIL has a pan-India presence with 22 manufacturing facilities, 8 sales offices, 40 depots, an in-house R&D, a dedicated Health and Safety wing, a 5500+ active and loyal dealer network, and workforce of nearly 4000. HIL's superbrands Charminar and Birla Aerocon offer a host of roofing and building solutions which have set benchmarks in their respective industries. Today it is a name to reckon with in the building materials industry in India and abroad with an elaborate range of products which now includes Parador, a German flooring giant HIL successfully acquired.



**Most Trusted Roofing Solution**

**BIRLA  
AEROCON**

BUILDING SOLUTIONS

## STANDARDS

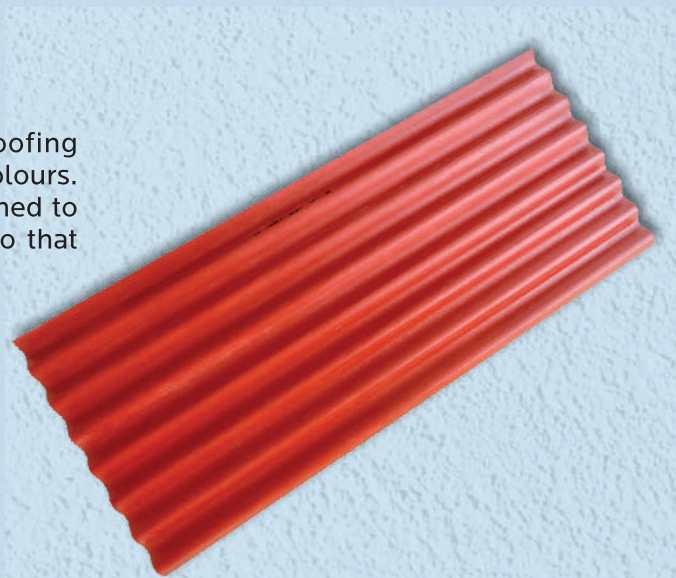
IS 14871:2000 PRODUCTS in fibre reinforced cement – long corrugated or asymmetrical section sheet and fittings for roofing and cladding – specification

IS 3007:1999 Code of practice for laying of cement sheets, Part-1, Corrugated sheets,

IS 1626(P3)1994 – Roofing-fittings

## FORTUNE - FUTURE READY

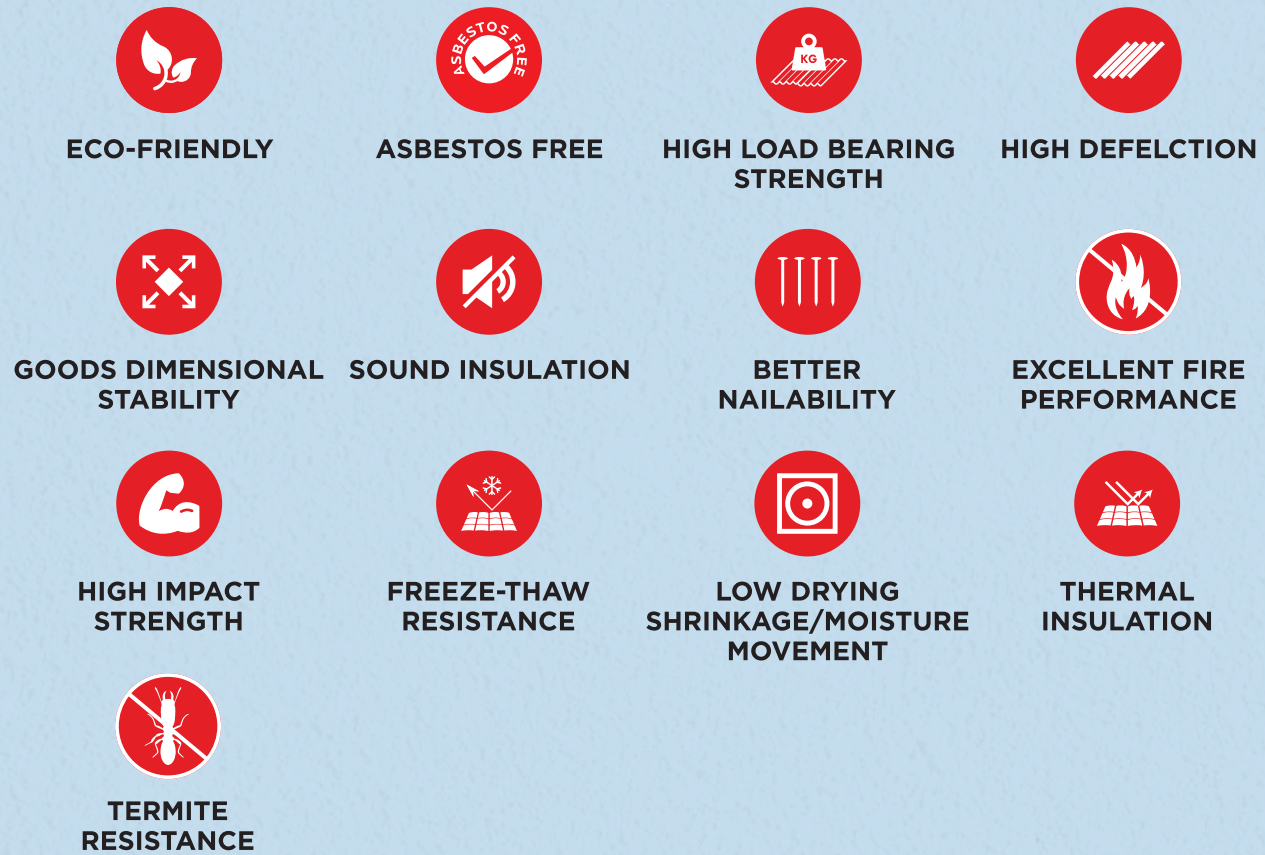
From the house of HIL, yet another innovative roofing solution – Charminar Fortune, It comes with multiple colours. An advanced, eco-friendly roofing sheet that is designed to look good, strengthened to withstand all weathers so that your roof looks the same, even decades later.





## CHARMINAR FORTUNE: FIRST-CLASS FEATURES

Charminar Fortune comes with a host of features that will surely go a long way in addressing all your needs – from environmental concern to durability.



## TECHNICAL SPECIFICATIONS\*

S. No	Parameter	Units	Tolerance	Value
1	Thickness	mm	(± 10%)	6
2	Overall Width	mm	(+ 10mm, - 5mm)	1050
3	Laid Width (Half Corrugation Side Lap)	mm	(+ 10mm, - 5mm)	1010
4	Depth of Corrugation	mm	(+ 3mm, - 5mm)	48
5	Pitch of Corrugation	mm	(+ 6mm, - 2mm)	146
6	Weight per Unit Area	kg/running mtr		12.3
7	Standard Length	mtr	(± 10mm)	1.50, 1.75, 2.00 2.25, 2.50, 2.75, 3.00
8	Load Bearing Strength (LBS) as per IS 14871:2000	N/mtr		>4000

\*Conditions apply



## THE ADVANTAGES

Properties	Metal Sheets	Fortune Sheets	Inference
Material	Galvanized Iron	Cement, Fly Ash, Synthetic Fibre	Fortune ensures zero maintenance and is resistant to natural weathering/corrosion
Life	8 - 12 Years	>15 years	Fortune provides matchless durability and safe-roofing
Sound-Proofs High Noise Pollution	Sound-Proofs High Noise Pollution	Zero Noise Pollution	Fortune ensures your environment remains noiseless. Sound & Noise Pollution IS : 9901(Part III) - 1981 & IS : 11050 (Part I) - 1981
Thermal Conductivity ( $\lambda$ ) (ASTM C177)	Absorbs heat, hence warmer 20 W/mK (approx)	Keeps interiors 5° C cooler in summer and warmer in winter (0.167 W/mK)	Fortune has low thermal conductivity which ensures lower conductance, keeping interiors cooler
Lightning and Power	Conducts	Does not conduct	Fortune is inert to Lightning
Load Bearing Strength	As per grade	min 4000 N/m (Type A, Category-C, Class-7)	Fortune offers excellent load bearing strength
Non-combustibility	Poor	Excellent	Fortune is non-combustible / fire-resistant. Tested as per BS 476
Vapour Permeability	Poor	Good	Fortune offers high vapour permeability

The above data is indicative and for reference.

**Deflection of Charminar Fortune Sheets, upon application of uniform distribution load across width of sheet, is superior than AC sheets.**

## INSTALLATION SPECIFICATIONS\*

S. No	Parameter	Units	Value
1	Side Lap	mm	40
2	End Lap (min) (for lower slope use sealants or increase end laps)>18°	mm	150
3	Actual Cover of 3m sheets as laid (allowing for loss by side lap of 40mm and end lap of 150mm)	sq.m	2.88
4	Sheeting required of 100 sq.m as laid a) Using 3m sheets with side and end lap loss b) Using 1.5m sheets with side and end lap loss	sq.m sq.m	109.37 115.8
5	Purlin Spacing for Roofing (max)	mm	1400
6	Runner Spacing for Side Cladding	mm	1700

\*Conditions apply



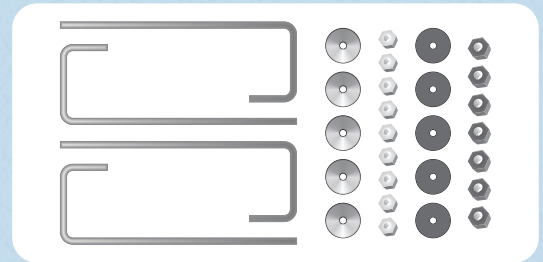
## GUIDELINES FOR HANDLING & USAGE OF CHARMINAR FORTUNE

- Holes for fixing sheets should be drilled. Do not punch
- Cat ladders and safety belts must be used while working on the roof
- Sheets must always be handled by a minimum of two people
- Pressure is never to be applied on one side of the sheet to raise the other - the sheet will break
- Sheets must be stacked on firm, level ground with 3-4 wooden blocks in place below
- Sheets must be lifted from the crown of corrugation, at once from both sides
- Use Hydra for loading & unloading coloured sheets

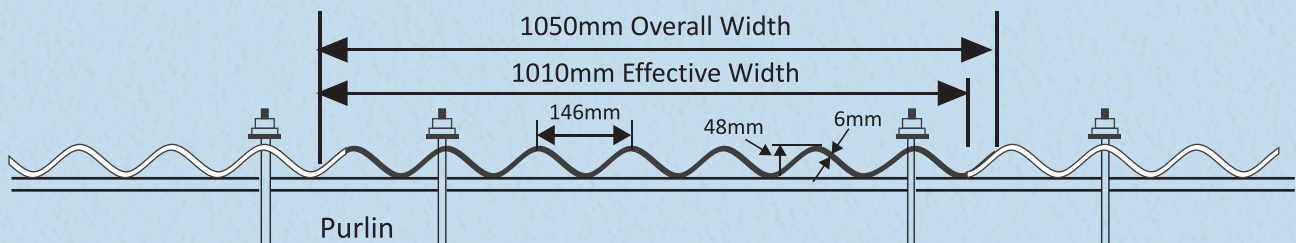
## ACCESSORIES

- Serrated Ridges
- Barge Boards
- Gutters
- North Light Curves
- Corrugated Apron Piece

## RECOMMENDED MATERIAL



GI nut, diamond shaped galvanized steel washer, diamond shaped sealing neoprene, rubber or bituminous washer, and galvanized hook bolt.



## APPLICATIONS

Charminar Fortune Sheets are ideal building material for roofing and side cladding for:

- Industrial Sheds
- Chemical Fertilizers & Paint Factories
- Shipping Yards
- Power Plants
- Railway Stations
- Loco Sheds
- Bus Stops
- Parking Areas
- Warehouses
- Poultry Farms, Dairy Farms & Agro Sheds
- Military Areas
- Cold Storage Godowns
- Food & Grain Godowns
- Schools
- Public Utility Sheds



## EMPOWERED BY TECHNOLOGY



HIL's plants perform at their best by using state-of-the-art technology.

## COLOUR PALLETTE



Ivory  
(RAL 1014)



Blue  
(RAL 5012)



Terracotta Red  
(RAL 3013)



Green  
(RAL 6035)



Oxford Blue  
(RAL 5013)



Grey White  
(RAL 9002)

### HIL Limited

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