

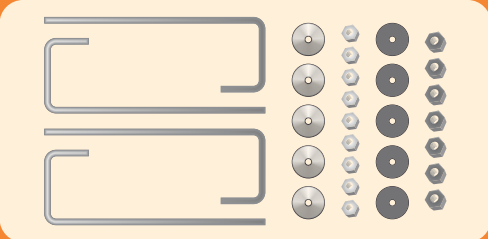
# GUIDELINES FOR HANDLING & USAGE OF CHARMINAR FORTUNE

- 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.

# ACCESSORIES

- Serrated Ridges (NK-10)
- Barge Boards (ST-6)

# RECOMMENDED MATERIAL



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



# APPLICATIONS

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

- Schools
- Industrial Buildings (all types)
- Food Storage Godowns
- Public Utility Sheds
- Cooling Towers
- Warehouses and Cold Storage Godowns
- Poultry Farms, Dairy Farms and Agricultural Sheds
- Garages, Verandahs and Outhouses
- Industrial buildings, houses, etc in coastal / hilly areas
- Cinema Halls
- Stadiums
- Railway & Bus Stations



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



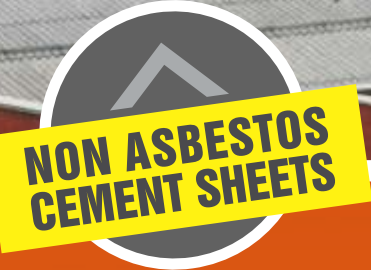
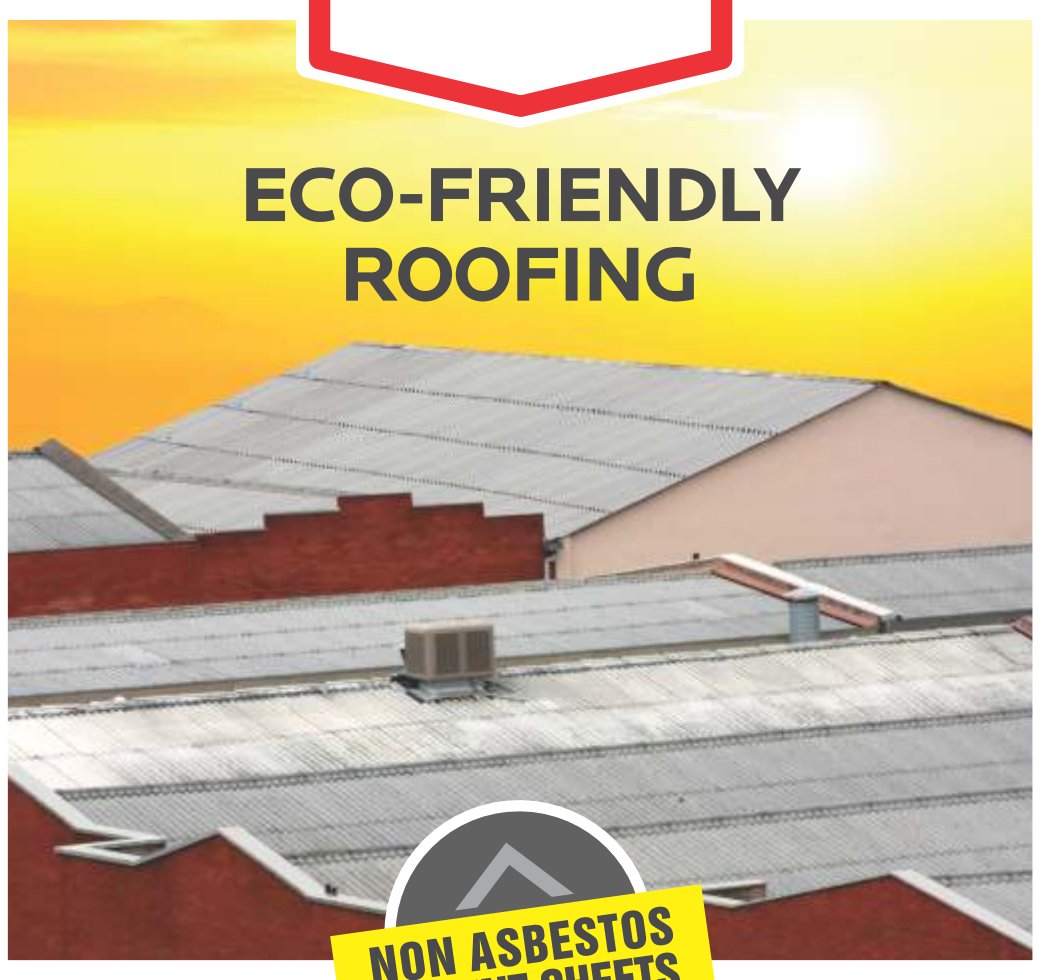
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CK BIRLA GROUP

HIL



# ECO-FRIENDLY ROOFING



ISO 9001:2008  
Certified





## A VISIONARY HOUSE AND ITS SUPERBRANDS

The CK Birla Group is a visionary Indian conglomerate presently valued at INR 12000 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 year 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 much needed affordable and durable roofing solutions. Today, HIL has pan India presence with 20 manufacturing facilities, 8 sales offices, 59 depots, an in-house R&D, a dedicated Health & Safety wing, a 4500+ active and loyal dealer network, and a 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.



**BIRLA  
AEROCON**  
BUILDING SOLUTIONS

### STANDARDS

IS 14871:2000 Products in fibre reinforced cement – Long corrugated or asymmetrical section sheets 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, comes yet another innovative roofing solution - Charminar Fortune. An advanced, eco-friendly roofing sheet that is designed to look good and strengthened to withstand all weathers to make your roof look the same decades later.

### AN AUTOCLAVED PRODUCT

Charminar Fortune is a superior roofing product, manufactured using Autoclaving Technology, and is presently available in Classic Natural Grey.



## 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.

ECO FRIENDLY	LIGHT WEIGHT
ASBESTOS FREE	AUTOCLAVED PRODUCT
GOOD DIMENSIONAL STABILITY	HIGH IMPACT STRENGTH
SOUND INSULATION	LOW DRYING SHRINKAGE/MOISTURE MOVEMENT
BETTER NAILABILITY	THERMAL INSULATION
EXCELLENT FIRE RESISTANCE	TERMITE RESISTANCE

## 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 m		10.5
7	Standard length	m	(± 10mm)	1.5, 1.75, 2.0, 2.25, 2.5, 2.75, 3.0
8	Load Bearing Capacity (LBC) as per IS 14871:2000	N/m		>3500
9	Weight of 100 sq.m as laid			
	a) With 3m sheet	Tonnes		1.10
	b) With 1.5m sheet	Tonnes		1.16

## 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	Several Decades	Fortune provides matchless durability and safe-roofing
Sound	High Noise Pollution	Zero Noise Pollution	Fortune ensures your environment remains noiseless
Heat Difference	Absorbs heat, hence warmer	Keeps interiors 5° C cooler in summer and warmer in winter	Fortune reduces internal temperature to lower than ambient temperature and maintains it
Lightning and Power	Conducts	Does not conduct	Fortune is inert to lightning and live power wire. This insular property helps to keep your living environment safe
Thermal Conductivity (λ)(ASTM C177)	20 W/mK (approx)	0.167 W/mK	Fortune has low thermal conductivity which ensures lower conductance, keeping interiors cooler
Load Bearing Strength	As per grade	min 3500 N/m (Type A, Category C, Class 7)	Fortune offers excellent load-bearing strength
Non-combustibility	Poor	Excellent	Fortune is non-combustible / fire-resistant
Chemical Resistance	Poor	Excellent	Fortune has excellent chemical resistance
Vapour Permeability	Poor	Good	Fortune offers high vapour permeability

The above data is indicative and for reference.

## INSTALLATION SPECIFICATIONS

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