



The India Cements Ltd

FEELS LIGHT.

**STANDS
STRONG.**

 **Coromandel**
duralite

AUTOCLAVED AERATED CONCRETE BLOCKS

DISCOVER THE NEW AGE CONSTRUCTION MATERIAL – COROMANDEL DURALITE

Coromandel Duralite offers everything for the new generation construction

- Manufactured from Cement, Flyash, Lime and Aeration agent – Alumina
- Coromandel Duralite confirms to BIS 2185 / 1984 Part - 3
- Excellent substitute for clay bricks, hollow and solid concrete blocks
- An environment friendly GREEN building product

TOWARDS A GREENER FUTURE WITH COROMANDEL DURALITE

- Superiority of Coromandel Duralite blocks is because of its incredible light weight and insulation properties. With 30% density of clay brick these can be laid quicker, saving time and building costs.
- Being more stronger, transit damages are very low
- Fulfills stringent green building regulations
- Construction using these blocks helps in gaining additional LEED green building certification points

WHY USE COROMANDEL DURALITE?

- Energy saving and eco-friendly which helps in reducing carbon footprint
- Faster construction reduces time up to 30%
- Dimensionally accurate and ease workability
- Factory finished with smooth surface. Hence, easy to paint and less plastering compounds required
- Use of standard tools to cut, saw, chisel, drill and shape
- Light weight – 1/3rd the density of clay bricks
- Fire resistant, Thermal and Acoustic insulated
- No cavity construction hence eliminates pests, termites and fungal growth
- Assured Savings **
 - Reduced foundation load by 30%,
 - Reduced Power consumption by 25%
 - Savings from Steel (18%) and cement (12%)

AREAS OF APPLICATION

- Internal and External walls
- Cavity walls
- Partition walls
- The best product for air-conditioned, fire rated and insulated buildings.



**This is for a typical building, performance varies with number of floors, Earthquake forces and Earthquake zones etc.

A COMPARATIVE ANALYSIS

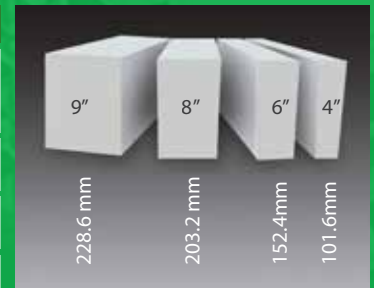
PARAMETER	AUTOCLAVED AERATED CONCRETE	CELLULAR LIGHT-WEIGHT CONCRETE
Density (kg/cu m)	600 – 700kg/m (oven dry)	800-1000
Compressive Strength (N/mm ²)	Minimum of 3	1.5 – 2.5
Dimensional Characteristics	Dimensionally Accurate	Dimensional Variations
Curing	Autoclaving (Steam)	Normal
Pore Size and Distribution	Small and Distributed	Large
Drying Shrinkage	Within IS limits	No Consistency

CRITERIA	DURALITE BLOCKS	CLAY BRICKS	CONCRETE BLOCKS
Face Size (mm)	600 x 200	230 x 75	400 x 200
Thickness (mm)	75 – 300	115	100, 150, 200
Faster Construction	Yes	Slow	
Workability	Easy	Moderate	Difficult
Quality	Highly Consistent Factory Made	Inconsistent – Manually Made	
Insulation Properties	Superior	Moderate	Average
Fire Rating	Superior	Normal	
Services	Easy	Electric / Plumbing Chasing Difficult	
Environment friendly	Green Material	No	



SPECIFICATIONS

TYPE OF PRODUCT	COROMANDEL DURALITE
Technical Data	600mm L x 200mm H x 75 to 300mm W (Other sizes can be customized)
Precision in Size	Variation 2 mm (+/-)
Compressive Strength	30–40kg/cm ² (as per IS:2185/1984, part III)
Fire Resistance	1200°C / 4hrs for 200mm thickness
Density	600 – 700kg/m (oven dry)
Sound Reduction Index (db)	42db for 200mm thick wall
Thermal Conductivity	0.16 (k) w/m deg C
Colour	Light Grey



ABOUT INDIA CEMENTS

The India Cements Ltd., South India's No. 1 cement company has played a vital role in the booming infrastructure and construction growth in India for the past 68 years. With a capacity of over 16 million tonnes per annum, 8 cement plants and 2 grinding units spread across the nation, India Cements is committed not just to the creation of stronger buildings, but to the emergence of a stronger India.



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Product Disclaimer: The information contained in this sheet is for general guidance only and should not be relied upon in specific instances. Cement performance results quoted are indicative as cement performance can be heavily influenced by a wide range of factors beyond our control. Users should rely on professional advice according to their particular circumstances.