



PARAMPARA GROUP



# GREEN BUILDING CENTRE

HOMES YOU CAN TRUST  
TO LAST A LIFETIME.

A Kamaal Ka Promise by ACC.

*Supported by*

**ACC**

Cementing Relationships

## **ABOUT GREEN BUILDING CENTRE**

Green Building Centre (GBC) is a franchise-based manufacturing unit fully equipped to develop end-to-end housing in addition to rural & urban developmental products and solutions.

It aims to accelerate the production and commercialization of ACC Green Bricks, ACC Green Blocks (both solid and hollow) and ACC Green AAC Blocks.

Supported by ACC Limited, a LafargeHolcim operating company in India, GBC provides consistent quality products leading to long-lasting homes. This environmental-friendly and cost-effective solution addresses the growing demands for affordable housing for billions of people living in earth-based houses. It also addresses deforestation and sustainable resource management in emerging markets by providing low-carbon construction techniques.

### **GBCParampara**

ACC GBC moradabad is Spread in an Area of 2.5 Acres situated at GBC , Opp. TMU, Lodhipur, Delhi Road Moradabad the unit o f GBC is fully computerized Automatic block Plant Supported byAcc Limited

All the raw materials are tested as per IS code through latest lab Equipme nts

# **MADE WITH ACC CEMENT**





# GBC PRODUCTS

## ACC GREEN CEMENT BRICKS

### BENEFITS

- 15-20% cost savings in wall construction due to uniformity in size, shape and low breakage
- Cost savings due to 10-15% lesser Fly Ash bricks and mortar consumed
- Retains wall finish by preventing seepage and efflorescence
- 20% better thermal insulation compared to clay bricks leading to cost savings in air-conditioning
- Beautiful exterior finish with direct application of paint

### APPLICATIONS

- Used for construction of both load-bearing and non load-bearing walls
- Approved for use in Govt. Departments (CPWD, PWD and MES etc).

**SIZE (IN MM) • 230x110x70**

- Manufactured as per IS Code 16720 (2018) for Fuel Ash - Cement Bricks

ACC GREEN CEMENT BRICKS



COLOURED BRICKS





## COMPARISON BETWEEN ACC CEMENT BRICK, FLY ASH BRICK (MARKET) & RED BRICK

S.No.	Parameter	ACC Cement Brick	Fly Ash Brick (Market)	Red Brick
1.	Quality Assurance and Control	<p>In-house quality lab</p> <p>Lot-wise testing of raw materials and finished products</p> <p>Mix design standardized by ACC</p> <p>Weight batching of raw materials for consistent quality</p>	<p>No established quality control procedure</p> <p>No equipments for quality testing</p>	<p>No established quality control procedure</p> <p>No equipments for quality testing</p>
2.	Strength	<p>15 MPa</p> <p>Can be customised as per customer requirements</p>	<p>5-7 MPa</p> <p>Customisation not possible due to lack of testing equipment and technical knowledge</p>	<p>8-10 MPa</p> <p>Far less in west and south due to poor quality of clay</p> <p>Customisation not possible</p>
3.	Breakage	Within 1-2%	Can be 5% or more	15-20%
4.	Long-Term Structural Stability	<p>Manufactured using ACC cement</p> <p>Structure has greater durability as bricks do not crack</p> <p>Less prone to develop seepage and corrosion</p>	<p>Manufactured using non-standard raw materials without testing</p> <p>Lime based bricks can develop cracks on hydration due to improper processing</p> <p>No control on moisture absorption which leads to seepage</p>	Deteriorates over time due to seepage and corrosion
5.	Efflorescence	Lowest	Moderate	Highest
6.	Cost Saving	Highest	Moderate	Lowest
7.	Repair and Maintenance Cost	Lowest	Moderate	Highest





## GREEN READY-MIX CONCRETE (RMC)

### ADVANTAGES OF READY-MIX CONCRETE

- Better quality concrete is produced as it is made from consistent methods and in advanced equipments.
- No need to store construction materials at the site.
- Labour associated with the production of concrete is eliminated, thereby reducing labour cost.
- Air and Noise pollution at the job site is reduced.
- Reduce the time required for construction.
- No delays in completing major projects like constructing dams, roads, bridges, tunnels, etc.
- Economy in the use of raw materials results in conservation of natural resources.
- Safe work practices - No disruption in the project schedules.
- Environment-friendly.

- Savings in labour cost and supervision of labour.
- Faster and speedier construction.
- Flexibility in concrete design mixes.
- Reduces inventory material handling and storage of raw material at sites.



# ACC GREEN CEMENT INTERLOCKING PAVER BLOCKS

## BENEFITS

- Large number of colour and design options
- Long-lasting
- Easy-to-install, maintain and repair
- Uniform edges

## SIZE (IN MM)

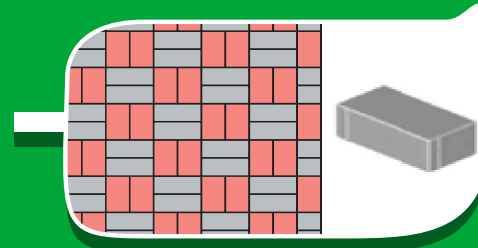
Cosmic	:	60
Cosmic	:	80
Zig-zag	:	60
Zig-zag	:	80
Tri Hexagonal	:	60
Tri Hexagonal	:	80
Olympia	:	60
Petal	:	80
Dumbbell	:	60
Dumbbell	:	80
Grass paver	:	60
I-paver	:	80
I-paver	:	60

- Manufactured as per IS code 15658 (2006)

## APPLICATIONS

Can be used for paving in a variety of traffic conditions such as:

1. Building premises, gardens and parks
2. Pedestrian plazas, shopping complexes, ramps, car parks, office driveways, housing colonies, office complexes and rural roads with low volume traffic
3. City streets, small and medium market roads and low volume roads





# ACC GREEN CONCRETE PRODUCTS

## KERB STONE BENEFITS

- High strength
- Perfect corners
- Aesthetically pleasing

## APPLICATIONS

Used as road dividers,  
locking for pavers in landscaping

## SIZE (IN MM)

300 x 300

Thickness 100 mm

300x300

Thickness 150 mm

Produced as per BIS

## KERB STONE



## Green Saucer Drain

## SIZE (IN MM)

300 x 300

Thickness 80 mm

300x300

Thickness 100 mm

Produced as per BIS



# ACC GREEN CEMENT CHEQUERED TILES

## BENEFITS

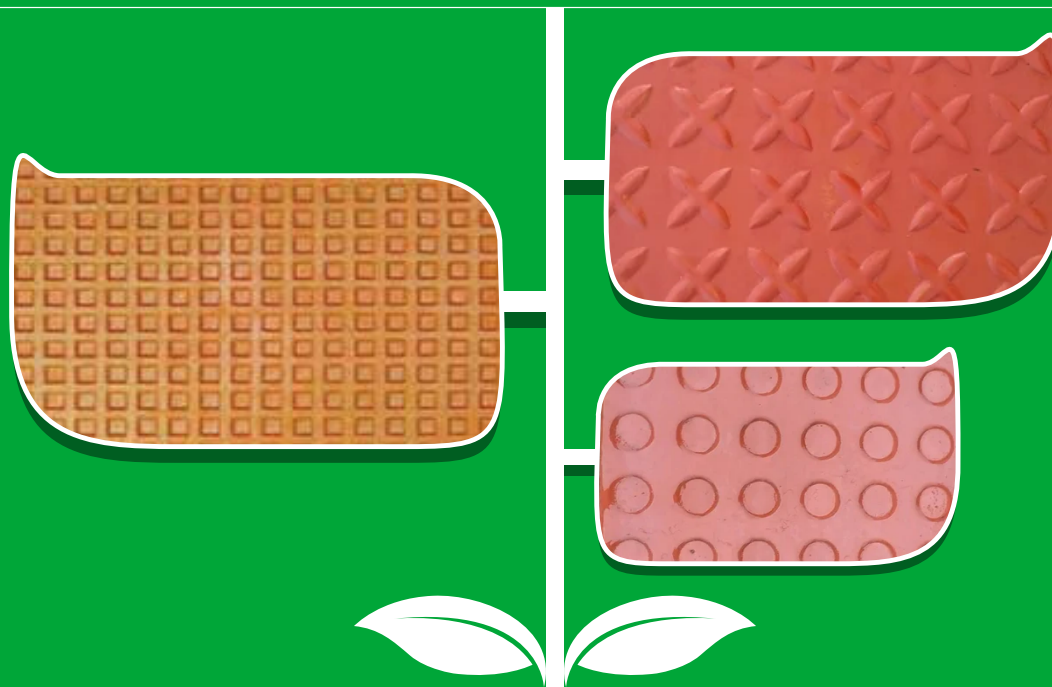
- Excellent anti-skid solution
- Easy-to-install and maintain
- Cost-effective in terms of material consumption and labour
- Large number of design and colour choices
- Uniform thickness and edges

## APPLICATIONS

- For use in open areas of any building such as driveways and ramps to prevent skidding
- For use in stairways, entrances, passages of large buildings to prevent slipping
- For use on wet floors near swimming pools

**SIZE (IN MM)** Ramp Tiles: 300 x 300, 25 mm thickness  
Ramp Tiles: 200 x 200, 25 mm thickness

- Manufactured as per IS code 13801 (1993)



# ACC GREEN CONCRETE PRODUCTS

## DESIGNER GARDEN BENCHES BENEFITS

- Strong and durable
- Easy-to-install
- Spacious and beautiful designs

## APPLICATIONS

Parks, railway platforms, schools and gram panchayats

## DESIGNER GARDEN BENCHES

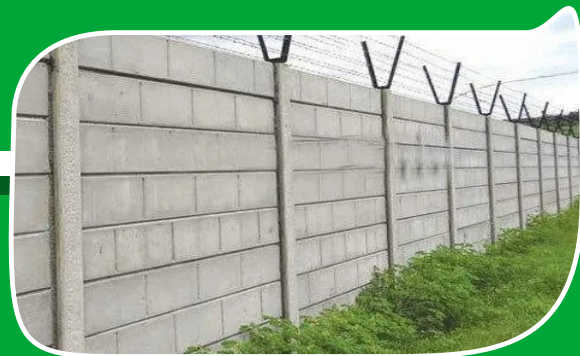


## PRECAST BOUNDARY WALL BENEFITS

- Ease of installation and faster construction process
- Inherent strength and structural capacity that are able to meet engineering design standards for housing
- High structural efficiency, low wastage rates on-site
- High cost benefit when compared to other on-site construction practices
- Helps to avoid installation of water borewell, electricity connection, cement column, guard and labour quarter
- Prepared to withstand harsh climatic conditions and incur minimal maintenance

7 Sections , each of 1 Feet Height and 7 Feet Length and Two Poles of 9 Feet Height

## PRECAST BOUNDARY WALL





# ACC GREEN CONCRETE PRODUCTS

PRODUCT	SIZE (IN MM)	BENEFITS	APPLICATION
Dish Channel with Drainage Holes	500x325x100	<ul style="list-style-type: none"> <li>• High strength</li> <li>• Long lasting solution</li> <li>• Aesthetically pleasing</li> </ul>	To drain water in a perfect manner and channelling the water flow during monsoon.
Drain Cover without recess	600x600x50	<ul style="list-style-type: none"> <li>• High strength</li> <li>• Good finishing to the landscape</li> <li>• Aesthetically pleasing</li> </ul>	These products are manufactured with the latest state of the art WET PRESSED VACUUM DEWATERED PRINCIPLE for best strength and lesser curing time. Higher production capacity than manual process.
Drain Cover with recess	650x650x50		
Drain Cover without recess	750x600x50		
Drain Cover with recess	900x600x50		
Tactile Slab		<ul style="list-style-type: none"> <li>• Better than concreting</li> <li>• Easy-to-install and maintain</li> <li>• Quick replacement possible</li> </ul>	These flag tiles are in square shape. Best for light vehicular movements like car parking pathways, jogging track areas, swimming pool decks and garden sitouts.
Bar Face Slab			
Chambered Slab			
Window frame with grill		<ul style="list-style-type: none"> <li>• Excellent surface finish</li> <li>• Rust-proof</li> <li>• No threat from pests</li> <li>• Handle and bolt are easy to fit</li> <li>• Produced as per BIS</li> </ul>	To make your windows secure and fire-resistant
Decorative Jaali		<ul style="list-style-type: none"> <li>• High strength</li> <li>• Faster vertical solution</li> </ul>	An excellent product for boundary walls, exterior windows and cladding.



# HEALTH & SAFETY

**THE HEALTH AND SAFETY OF ALL OUR EMPLOYEES AND CUSTOMERS IS THE FIRST AND PRIMARY PRIORITY FOR GBC. ALL CUSTOMERS ARE THEREFORE ENCOURAGED TO ENSURE THEY BUILD THEIR PROJECTS SAFELY AND USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) TO PROTECT EVERYONE ON SITE.**

## **BELOW ARE SOME TIPS TO ENSURE A SAFE CONSTRUCTION SITE**

- Wear appropriate protective wear
- Store tools in order and in designated areas to avoid accidents
- Always have a clearly marked entry and exit to your site
- Do not leave waste materials at the work site as they can become tripping hazards
- Store waste neatly for proper disposal
- Ensure that electrical cables and water pipes are visible and clearly marked
- Take precautions when working at height
- Ensure that the existing structure is sound before continuing construction
- Make strong connections between joining elements such as beams and columns to avoid collapse of the structure
- Always use the correct proportions of the material for specific applications
- Too much or too little of any material may make your structure weak
- Store all your materials in a cool dry place to avoid damaging them



# ACC GREEN CONCRETE COVER BLOCKS

## BENEFITS

- Provides superior protection to steel rebars from rust and corrosion and enhances the life of the roof
- Concrete spreads evenly on the entire surface leading to greater roof strength
- Provides fire protection to steel rebar
- Helps in maintaining the distance between iron bars and shuttering

## APPLICATIONS

- For all RCC applications such as slabs, columns, beams, etc.

**SIZE (IN MM)** 20 mm, 25 mm, 40 mm, 50 mm





# GREEN TOILETS

Green Toilets provide a complete solution for quality toilet construction and are handed over in a ready-to-use-state. They come in different designs as per government specifications and customer demands.



# HOW TO CHOOSE THE RIGHT BUILDING MATERIALS



## **BRICKS**

All GBC products deliver the highest quality and performance guarantee.



## **STONE**

Use hard and angular stones and gravel. Avoid rounded stones as they weaken the concrete.



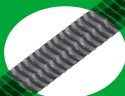
## **SAND**

Use clean sand for mortar and concrete. Test the cleanliness by putting it in a cup or bottle and shaking it after adding water.



## **WATER**

The water should not get too dirty as this is a sign that the sand contains mud which may compromise the mix and quality of construction.



## **STEEL**

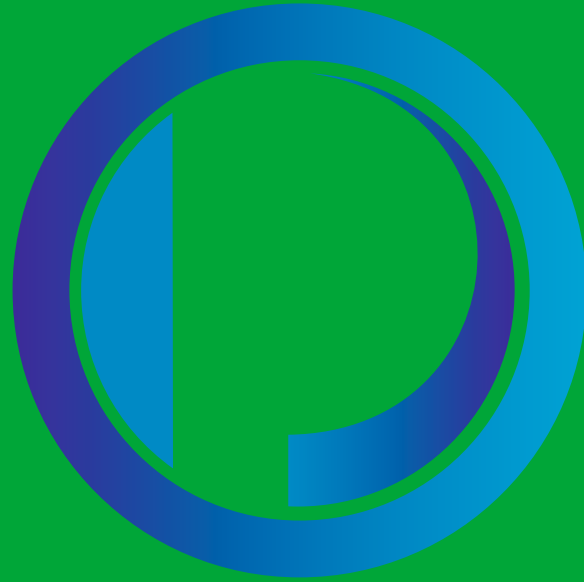
Use ribbed steel for reinforcement. Avoid using recycled or rusty steel in your construction.



## **FOUNDATION BLOCKS**

Ensure that the blocks have no cracks or chips. Blocks should be square and not wavy or curved. The sizes of the block should not vary too much.





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***ACC***

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