



**TISCO BUILD**



**Sm@rt FAB**



Contact us  
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**AUTHORISED DISTRIBUTOR**

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**TATA STEEL**  
WeAlsoMakeTomorrow



# TISCO BUILD

## Constructing a Sustainable Tomorrow



# TiscoBuild Green Construction Blocks

“TiscoBuild Green Construction Blocks are a sustainable replacement of Red clay bricks. They are made using superior autoclaving technology giving these blocks superior quality over traditional bricks.”



Our blocks are  
**Greenest & Coolest**



### Guaranteed Strength

TiscoBuild Blocks have an excellent consistency and have a minimum compressive strength of 4.5 MPa.

### Best-in-class Thermal Insulation

TiscoBuild Blocks have an excellent thermal rating. They provides well insulated interiors, keeping out warm air in summer and cold air in winters; leading to significant reduction in the air conditioning cost of the house.



### Precise Dimensions & Smooth Finish

The automatic manufacturing of TiscoBuild blocks gives dimensional accuracy and smooth surfaces, eliminating the need for the usual thick plaster coating done in red clay or fly ash brick walls.



### Termite & Pest Resistance

The inorganic composition of TiscoBuild blocks makes them completely termite proof and pest resistant.



### No Water Curing

Walls made with TiscoBuild blocks need no water curing, leading to savings in time and water.



### 2X Fire Resistance

TiscoBuild blocks have a fire rating of 4 hours which is twice the fire rating of red clay bricks.

## Commonly Used dimensions

SKU	Dimensions (Length X Height)	Thickness	Preferred Usage	Blocks/m <sup>3</sup>	Fly Ash Bricks Replaced	Red Clay Bricks Replaced
	600mm x 200mm	100mm	Internal Walls	84	6.5	5.5
	600mm x 200mm	125mm	Internal Walls	67	8.5	7
	600mm x 200mm	150mm	Internal Walls	56	10	8.5
	600mm x 200mm	200mm	External Walls	42	13.5	11.5
	600mm x 200mm	230mm	External Walls	37	15	13
	600mm x 200mm	250mm	External Walls	34	17	14



## Only Product to be Certified by CBRI & TERI



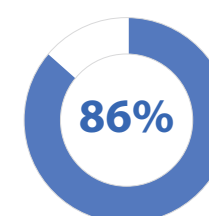
Sl. No.	Test Parameter	Unit	Average Result	Req. As Per is 2185 P-3)-1984, Reaff:2005	Method of test
1	Compressive Strength	N/mm <sup>2</sup>	4.75	4.00 Min (Grade-1)	IS 6441 (Part V)
2	Dry Density	kg/m <sup>3</sup>	640	551 - 650	IS 6441 (Part I)
3	Drying Shrinkage	%	0.037	0.05 Max.	IS 6441 (Part II)
4	Thermal Conductivity	W/mk	0.17	0.24 Max.	ISO 22007-2
5	Sound Transmission Class (STC)	dB	40	-	ISO 10534-2
6	Fire Resistance	Hours	4	-	ASTM E 119



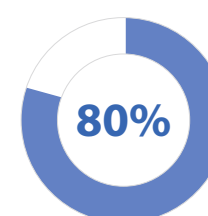
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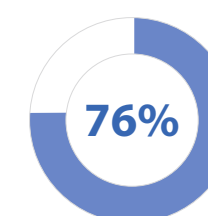
Particulars	Units	Reduction (absolute)	Reduction (Percentage)
Energy consumption reduction	kgoe/m <sup>3</sup> of blocks	73	86
Carbon footprint reduction	kgCO <sub>2</sub> /m <sup>3</sup> of blocks	677	80
Water usage reduction	liter/m <sup>3</sup> of blocks	2813	76
Topsoil reduction	kg/m <sup>3</sup> of blocks	2000	100
Sand usage reduction	kg/m <sup>3</sup> of blocks	2513	93



Energy  
consumption  
reduction



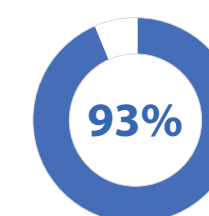
Carbon  
footprint  
reduction



Water usage  
reduction



Topsoil usage  
reduction



Sand  
consumption  
reduction



4

## Usage Guideline

# BUILD WELL BUILD STRONG



### Proper Stacking

Blocks must be stacked at the site on a level, dry surface

### Slight Surface Wetting

Only slight surface wetting of TiscoBuild blocks required before application



### Lintel Must

After every 4 feet of wall, lintel to be done with two 8mm steel bars



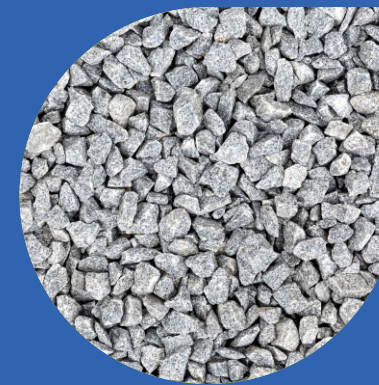
### Adhesive Application

For masonry work of TiscoBuild blocks, ONLY thin bed joining mortar (adhesive) must be used. Cement-Sand Mortar must NOT be used



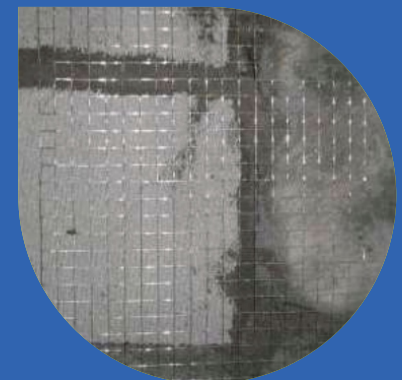
### Avoiding Point Load

Aggregates must be used to pack wall at upper beam



### Mesh on Joints

Using wire mesh/fiber mesh for RCC joints or coping



### Drilling/Ducting

For electrical conduits and piping installation, we can drill a screw or carve an electrical conduit in TiscoBuild block's wall using an electrical router or a chasing tool. A power drill or router can be used to install an electrical box.

