

**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.

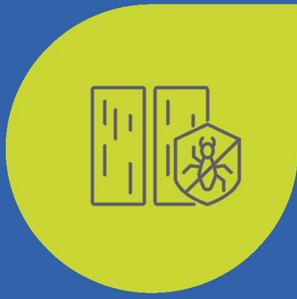
## Best-in-class Thermal Insulation

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 & Finish

The automatic manufacturing of TiscoBuild blocks gives dimensional accuracy eliminating the need for the usual thick plaster coating done in red clay or fly ash brick walls, leading to a better wall finish.



### Termite & Pest Resistance

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



### 2X Fire Resistance






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



### No Water Curing

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

## Commonly Used dimensions

SKU	Dimensions (Length X Height)	Thickness	Preferred Usage	Blocks/m <sup>3</sup>	Fly Ash Bricks Replaced	Red Clay Bricks Replaced
	625mm*200mm	100 mm	Internal Walls	80	6.5	5.5
	625mm*200mm	125 mm	Internal Walls	64	8.5	7
	625mm*200mm	150 mm	Internal Walls	53	10	8.5
	625mm*200mm	200 mm	External Walls	40	13.5	11.5
	625mm*200mm	225 mm	External Walls	32	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
1	Compressive Strength	N/mm <sup>2</sup>	4.75	4.00 Min (Grade-1)
2	Dry Density	kg/m <sup>3</sup>	640	551 - 650
3	Drying Shrinkage	%	0.037	0.05 Max.
4	Thermal Conductivity	W/mk	0.17	0.24 Max.
5	Sound Transmission Class (STC)	dB	40	-
6	Fire Resistance	Hours	4	-



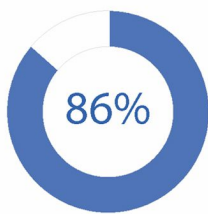




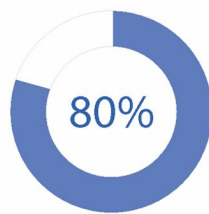
# THE ENERGY AND RESOURCES INSTITUTE

Creating Innovative Solutions For A Sustainable Future

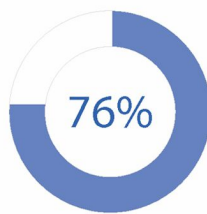
Particulars	Units	Reduction (absolute)	Reduction (Percentage)
Energy consumption reduction	kgoe/m3 of blocks	73	86
Carbon footprint reduction	kgCO2/m3 of blocks	677	80
Water usage reduction	liter/m3 of blocks	2813	76
Topsoil reduction	kg/m3 of blocks	2000	100
Sand usage reduction	kg/m3 of blocks	2513	93



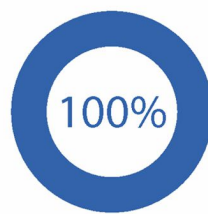
Energy consumption reduction



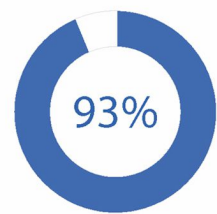
Carbon footprint reduction



Water usage reduction



Topsoil usage reduction



Sand consumption reduction



## 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.



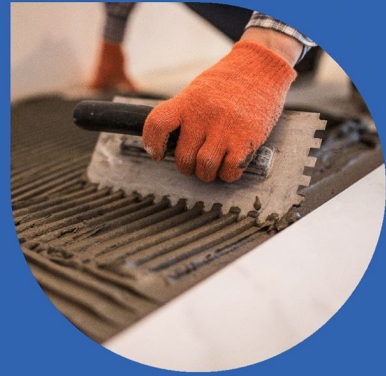
### Bond beam Must

After every 4 feet of wall or at sill & lintel level 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.

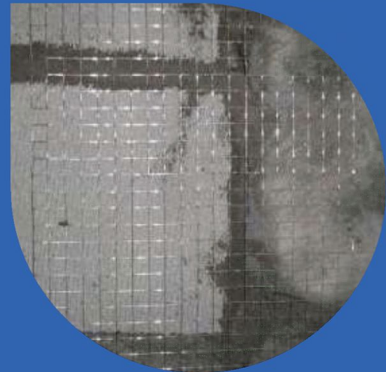


### Avoiding Point Load

Aggregates must be used to pack wall at upper beam.

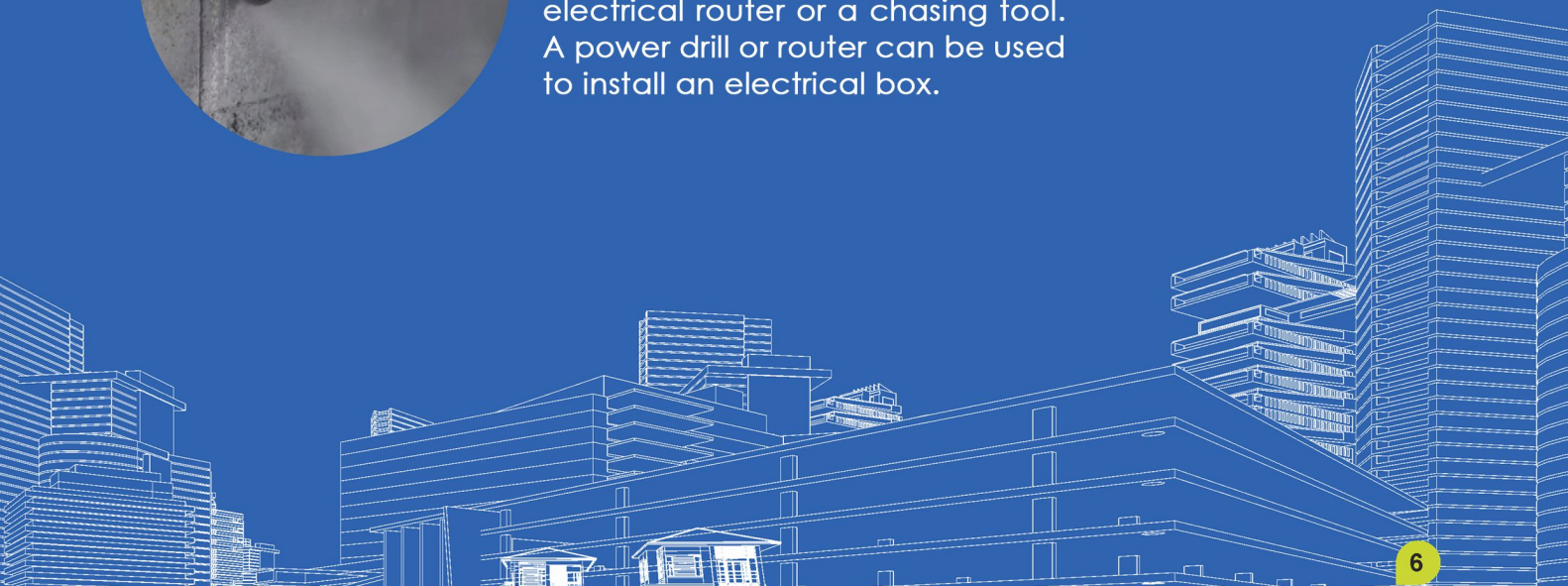
### Mesh on Joints

Using wire mesh/fiber mesh for RCC joints or coping.



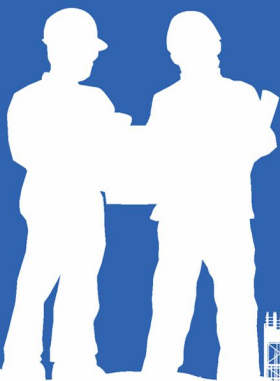
### Drilling/Ducting

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.





Our blocks are  
**Greenest & Coolest**



Contact us  
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— AUTHORIZED DISTRIBUTOR —

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