

# EVEREST

CLADDING, WALL  
&  
PRE-ENGINEERED BUILDINGS  
FOR  
GREEN BUILDING SOLUTIONS



# What makes a building Green?



A **Green** building, also known as a **Sustainable** building, is a structure that is designed, built, renovated, operated, or re-used in an **ecological** and **resource – efficient** manner.

**Green** buildings are designed to meet certain objectives such as **protecting occupant's health & comfort;**  
**Improving employee productivity;**  
**using energy, water and other resources more efficiently** and  
**reducing the overall impact to the environment.**



## **SUSTAINABLE**

(Designed, built, renovated, operated)... in a **RESOURCE – EFFICIENT** manner.

Protecting **OCCUPANT'S HEALTH & COMFORT.**

**IMPROVING** employee **PRODUCTIVITY**

**USING ENERGY & WATER EFFECTIVELY**

**REDUCING** the overall **IMPACT** to the **ENVIRONMENT.**



At **EVEREST** we provide “complete building solutions” that fit into these basic requirements which makes a building **Green**.

Before I showcase those solutions ..... A brief introduction of Everest Industries Ltd.



- ✓ Established in 1934.... A rich 83 years of experience.
- ✓ Turnover - 1200 crores.
- ✓ Started as a roofing company ..... Only company to manufacture non-asbestos cement corrugated roofing sheet, in India.... We also manufacture metal roofing sheet.
- ✓ Everest manufacturers Non-asbestos Flat Cement Boards & Ready made aerated concrete Panels which provides different building solutions..... for external, internal & wet area applications.
- ✓ We are also into pre-engineered buildings (Rolled out MS profiles / Light gauge Steel Frame - Structures).
- ✓ A strong dealer network of over 6000 outlets....Beyond India we also provide solutions to over 25 countries, spanning Asia, Africa, Australia & Europe.
- ✓ Integrated Technical Expertise with strong design & R&D support.



- **INSULATED CLADDING TO AN EXISTING EXTERNAL WALL**
  - EXTERNAL CLADDING
  - INTERNAL CLADDING
  
- **ENERGY EFFICIENT EXTERNAL WALL SYSTEMS**
  - HOLLOW SYSTEM
  - SOLID SYSTEM
  
- **REPLACING TIMBER HOUSES WITH STEEL HOUSES**
  - REPLACING TIMBER STRUCTURES WITH SMART STEEL (LIGHT GAUGE) STRUCTURES
  - REPLACING TIMBER PLANKS WITH EVEREST CEMENT WOOD PLANKS
  
- **EVEREST PRE-ENGINEERED BUILDINGS**
  - SMART STEEL (LIGHT GAUGE FRAME) STRUCTURES
  - MS BUILT UP PROFILES



# External / Internal Cladding Solutions



External Cladding with Everest Fibre Cement Board



Internal Cladding with Everest Fibre Cement Board





# External / Internal Cladding Solutions



32x64x32x0.75 mm (BMT) Everest Wall Track @ 610mm C/C

6mm dia anchor bolt

5x34x64x36x5x0.75mm (BMT) Everest Wall Stud @ 610mm C/C

25mm Drywall Screw @ 200mm C/C

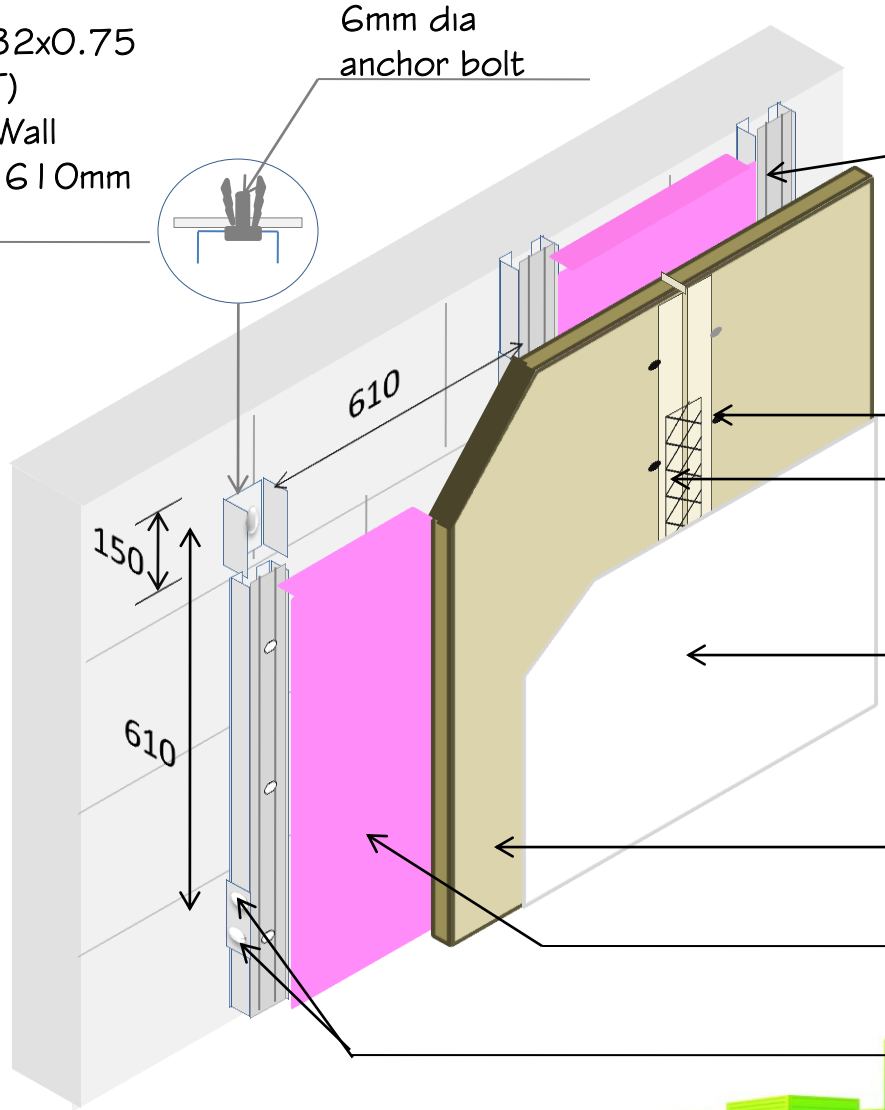
Fibre Tape

Elastomeric Polymerised Jointing compound cum putty

9mm Everest Heavy Duty Fibre Cement Board (Confirming to IS 14862 / Type - A category)

25mm XPX (Extruded Polystyrene)

Metal to Metal Button Head Screw





## **SUSTAINABLE -**

- ✓ Improves Building Envelope Performance;
- ✓ Reduce Building Energy Demand;
- ✓ Enhances U-Value of 9" AC Block Wall from 0.60 to 0.31W/m<sup>2</sup>K
- ✓ Enhances U-Value of 9" Clay Brick Wall from 2.76 to 0.53W/m<sup>2</sup>K
- ✓ Low maintenance.

## **OCCUPANT'S HEALTH & SAFETY; IMPROVE WORKER'S EFFICIENCY.**

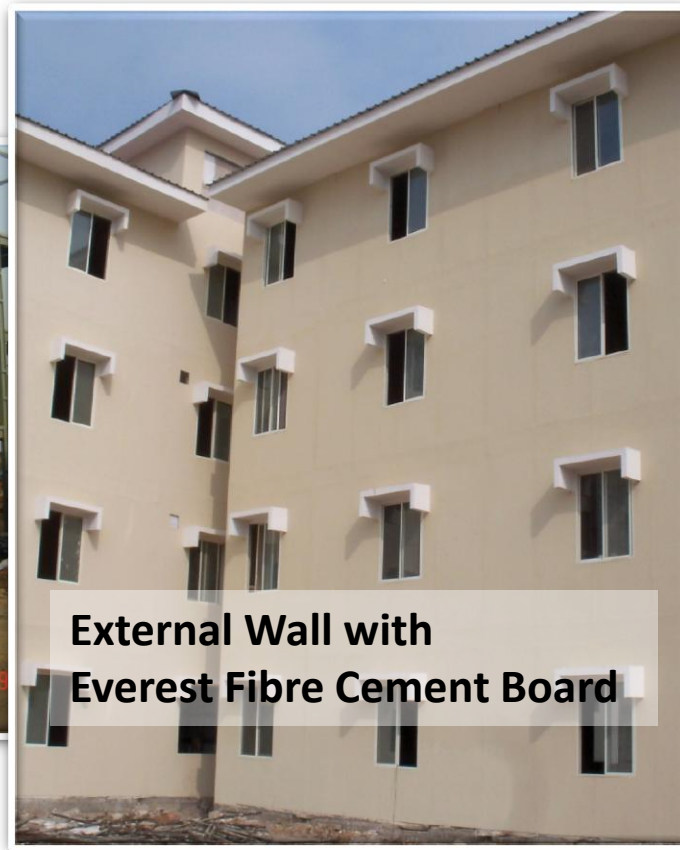
- ✓ Better sound insulation.
- ✓ Contributes towards enhanced fire protection.
- ✓ Better working ambience

## **USING ENERGY & WATER EFFICIENTLY**

- ✓ Dry construction. Conserves Water.
- ✓ Easy & Economical Material & Waste Handling.



# External / Wall Solutions (HOLLOW)



\* External Wall Solution – Both for RCC / Steel Structures.

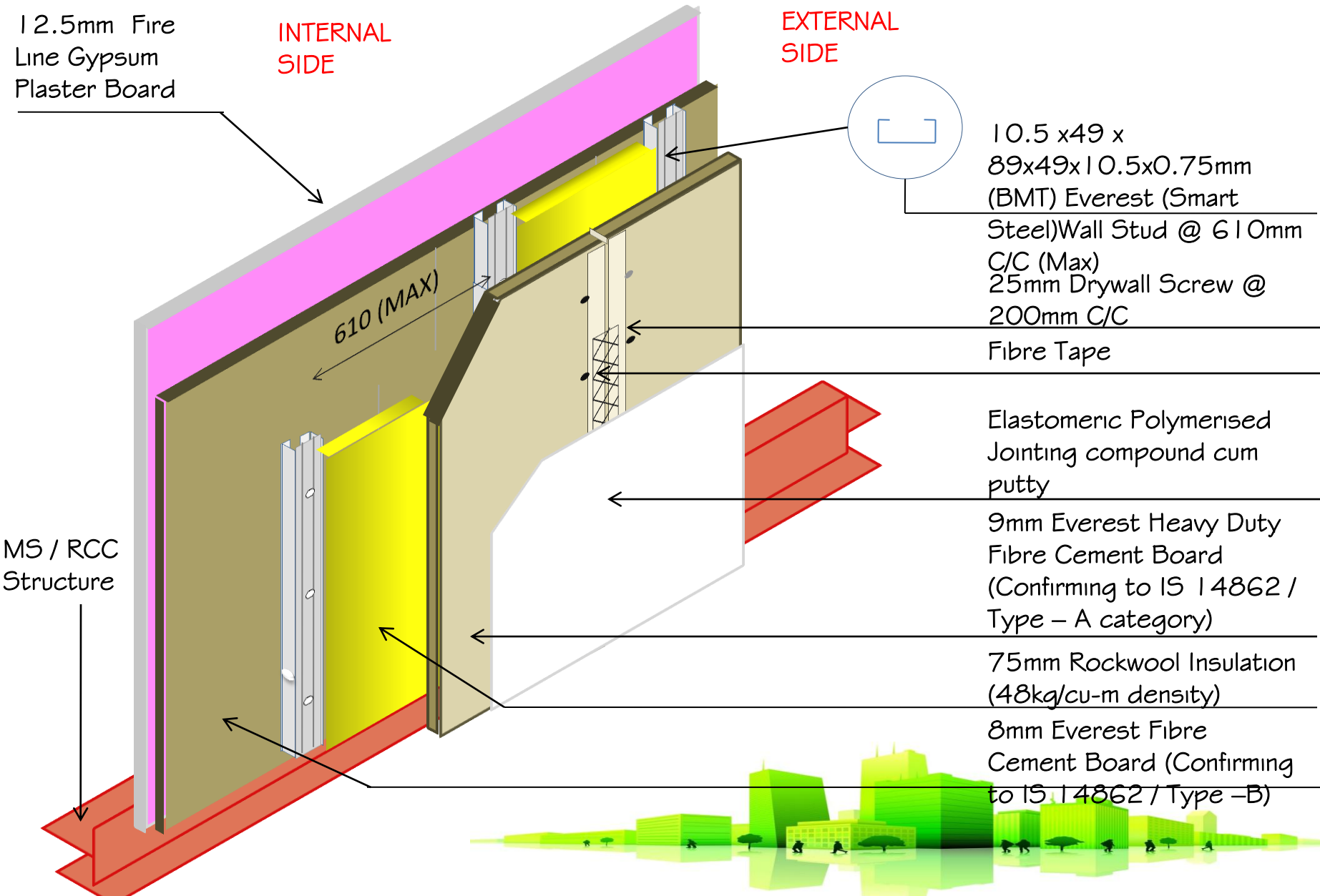


# External / Wall Solutions (HOLLOW)

12.5mm Fire Line Gypsum Plaster Board

INTERNAL SIDE

EXTERNAL SIDE



10.5 x 49 x 89 x 49 x 10.5 x 0.75mm (BMT) Everest (Smart Steel) Wall Stud @ 610mm C/C (Max)  
25mm Drywall Screw @ 200mm C/C

Fibre Tape

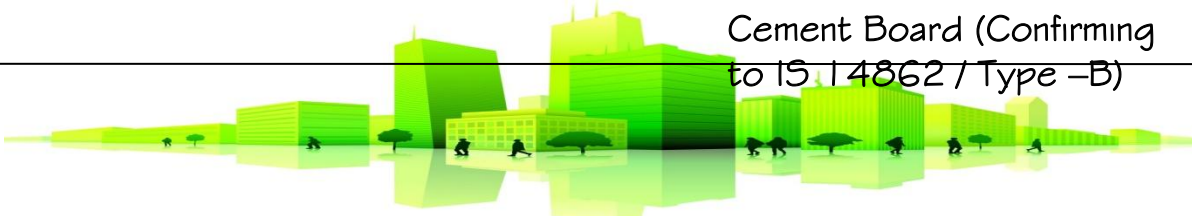
Elastomeric Polymerised Jointing compound cum putty

9mm Everest Heavy Duty Fibre Cement Board (Confirming to IS 14862 / Type - A category)

75mm Rockwool Insulation (48kg/cu-m density)

8mm Everest Fibre Cement Board (Confirming to IS 14862 / Type -B)

MS / RCC Structure



# External / Wall Solutions (HOLLOW)

## **SUSTAINABLE -**

- ✓ Improves Building Envelope Performance;
- ✓ Reduce Building Energy Demand;
- ✓ U-value of the External Wall as low as 0.35 W/m<sup>2</sup>K
- ✓ Low maintenance.

## **OCCUPANT'S HEALTH & SAFETY; IMPROVE WORKER'S EFFICIENCY.**

- ✓ Better sound insulation. (60 to 65 dB)
- ✓ Contributes towards enhanced fire protection. (>120 Mins)
- ✓ Better working ambience

## **USING ENERGY & WATER EFFICIENTLY**

- ✓ Dry construction. Conserves Water.
- ✓ Light Weight (1/4<sup>th</sup> the weight of conventional brick structure) / Lighter Structure / Reduction in Structural cost / Less excavation.
- ✓ Easy & Economical Material & Waste Handling.





# External / Wall Solutions (SOLID)



\* External Wall Solution – Both for RCC / Steel Structures.



# External / Wall Solutions (SOLID)



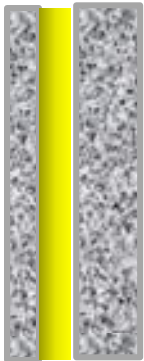
INTERNAL  
SIDE

EXTERNAL  
SIDE

50mm RAPICON Panels

50mm Rockwool Insulation  
(48kg/cu-m density)

50 50 75



175

75mm RAPICON Panels

G.I Track Profile

MS / RCC  
Structure



## **SUSTAINABLE -**

- ✓ Improves Building Envelope Performance;
- ✓ Reduce Building Energy Demand;
- ✓ U-value of the External Wall as low as 0.60 W/m<sup>2</sup>K
- ✓ Low maintenance.

## **OCCUPANT'S HEALTH & SAFETY; IMPROVE WORKER'S EFFICIENCY.**

- ✓ Better sound insulation. (60 to 65 dB)
- ✓ Contributes towards enhanced fire protection. (>120 Mins)
- ✓ Better working ambience

## **USING ENERGY & WATER EFFICIENTLY**

- ✓ Dry construction. Conserves Water.
- ✓ Light Weight (1/4<sup>th</sup> the weight of conventional brick structure) / Lighter Structure / Reduction in Structural cost / Less excavation.
- ✓ Easy & Economical Material & Waste Handling.





# REPLACING TIMBER WITH EVEREST FIBRE CEMENT BOARD & EVEREST CEMENT WOOD PLANKS FOR TIMBER HOUSES, ESPECIALLY IN HIGH ALTITUDES.



- ✓ Replace timber structures with Everest Smart Steel Structures
- ✓ Save forest. Save environment.
- ✓ “Steel” – Maximum recycled & recyclable content.
- ✓ Easy to maintain.
- ✓ Can easily incorporate future design changes.
- ✓ Can be relocated with maximum salvage.
- ✓ Lighter than timber.



# REPLACING TIMBER WITH EVEREST FIBRE CEMENT BOARD & EVEREST CEMENT WOOD PLANKS FOR TIMBER HOUSES, ESPECIALLY IN HIGH ALTITUDES.



- ✓ Replace timber planks with EVEREST CEMENT WOOD PLANKS.
- ✓ Save forest. Save environment.
- ✓ Do not ROT or DECAY (easy to maintain)
- ✓ Provides better thermal & sound Insulation.
- ✓ Non-comustible. Better Fire Protection.

**EVEREST CEMENT WOOD PLANK**





# REPLACING TIMBER WITH EVEREST FIBRE CEMENT BOARD & EVEREST CEMENT WOOD PLANKS FOR TIMBER HOUSES, ESPECIALLY IN HIGH ALTITUDES.



## **SUSTAINABLE -**

- ✓ Improves Building Envelope Performance;
- ✓ Reduce Building Energy Demand;
- ✓ K-value of Everest Cement Wood Plank is 0.08 W/mk (as compared to 0.12 & 0.14 W/mk for Pine Wood & Deodar Wood respectively)
- ✓ Low maintenance. (Everest Cement Wood Planks do not rot or decay)
- ✓ Everest SMART STEEL (Light Gauge Steel Frame) Structures can easily adopt future design changes.
- ✓ Everest SMART STEEL structures can easily relocated with maximum salvage.

## **OCCUPANT'S HEALTH & SAFETY; IMPROVE WORKER'S EFFICIENCY.**

- ✓ Better sound insulation.
- ✓ Better fire protection.

## **USING ENERGY & WATER EFFICIENTLY**

- ✓ Dry construction. Conserves Water.
- ✓ Light Weight . Lighter Foundation. Lesser Excavation.
- ✓ Easy & Economical Material & Waste Handling.



# EVEREST PRE- ENGINEERED BUILDING



- ✓ Pre-Engineered Steel building both with MS built-up profiles & “Smart Steel” Light Gauge Steel frame structures.
- ✓ Cladding material as discussed in previous slides.



- ✓ Everest Pre-Engineered Building – Design & Materials used, supports Green Building.
- ✓ Steel – Maximum recycled & recyclable content
- ✓ Wall designed with Insulated Fibre Cement panels & Reflective / Insulated Galvalume Roofing Sheets, increases the Building envelope Performance –Contributes to the reduction in Building Energy Demand.
- ✓ Reduces carbon footprint by minimizing material / construction wastes.
- ✓ Dry Construction. Saves water.
- ✓ As pre-engineered. Saves energy in construction.
- ✓ Lighter in weight (as compared to conventional buildings) – Lighter foundations, lesser excavation.
- ✓ Accepts future design changes. Can be relocated with maximum salvage.



THANKS.....

