EVEREST
CLADDING, WALL &
PRE-ENGINEERED BUILDINGS
FOR
GREEN BUILDING SOLUTIONS
What makes a building Green?

A **Green** building, also know 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.
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.
SOLUTIONS FROM EVEREST FOR GREEN BUILDINGS

- **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
- 25mm XPX (Extruded Polystyrene)

Metal to Metal Button Head Screw
External / Internal Cladding Solutions

**SUSTAINABLE** –
- Improves Building Envelope Performance;
- Reduce Building Energy Demand;
- Enhances U-Value of 9” AC Block Wall from 0.60 to 0.31W/m²K
- Enhances U-Value of 9” Clay Brick Wall from 2.76 to 0.53W/m²K
- Low maintenance.

**OCCUPANT’S HEALTH & SAFETY; IMPROVE WORKER’S EFFICIENCY.**
- Better sound insulation.
- Contributes towards enhanced fire protection.
- Better working ambience

**USING ENERGY & WATER EFFICIENCY**
- 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**
- **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**
- **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)**

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**INTERNAL SIDE**

**EXTERNAL SIDE**

**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/m²K
✓ 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 EFFICIENCY
✓ Dry construction. Conserves Water.
✓ Light Weight (1/4th the weight of conventional brick structure) / Lighter Structure / Reduction in Structural cost / Less excavation.
✓ Easy & Economical Material & Waste Handling.
* External Wall Solution – Both for RCC / Steel Structures.

External Wall with Ready Made Aerated Concrete Sandwich (RAPICON) Panels
External / Wall Solutions (SOLID)

- **INTERNAL SIDE**
  - 50mm RAPICON Panels
  - 50mm Rockwool Insulation (48kg/cu-m density)

- **EXTERNAL SIDE**
  - 50 50 75
  - G.I Track Profile

- **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/m²K
✓ 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 EFFICIENCY
✓ Dry construction. Conserves Water.
✓ Light Weight (1/4th 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.
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 EFFICIENCY

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