

CATEGORY
BUILDING SYSTEMS



PRODUCT / TECHNOLOGY



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Technology Detail

RAPICON PANELS

Alternate to conventional masonry walling system.



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CONTACT DETAILS

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BRIEF

Everest RAPICON Panel is a sandwich module having two non-asbestos facing sheets (4mm/5mm) of Everest Wall boards (as per IS 14862 Type B Category III), placed on either side of a lightweight concrete core. The lightweight core consists of a mix of Portland cement, binders, siliceous and micaceous material aggregates which are suitably aerated.

Wall Panels come with the tongue-and-groove joint system to facilitate easy assembly. The Wall Panel can easily replace brick and mortar; and other partition materials and systems for clean, hassle-free constructions.

The Panels are used in a wide range of applications such as, wall partitions, claddings, ceilings, external walls, facades, interior and exterior wall linings, pre-fab structures, etc.

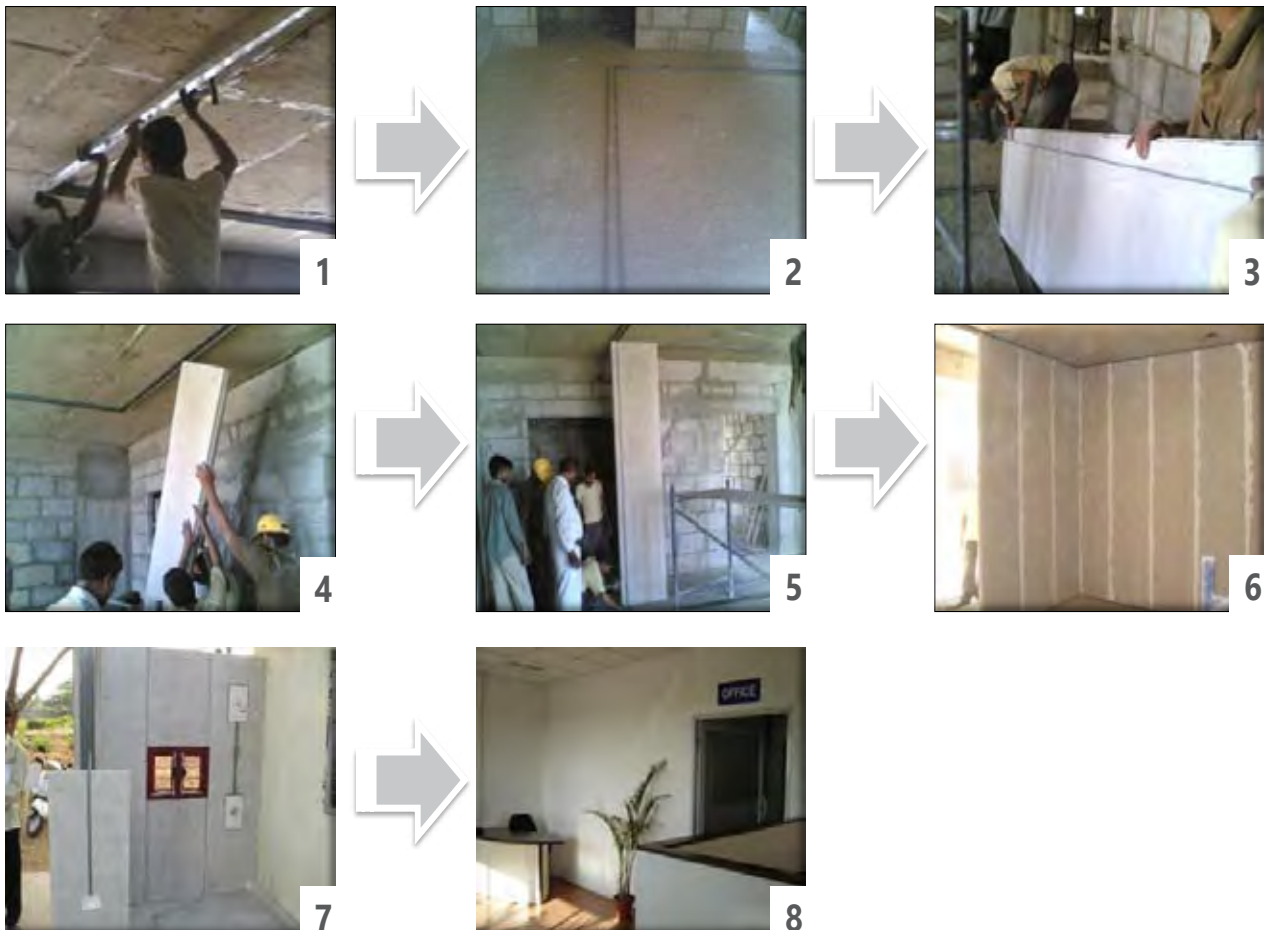


SALIENT FEATURES

- The system is dry walling system, brings speed in construction, water conservation (no use of water for curing of walling components at site).
- The sandwich panels have light weight material as core material, which brings resource efficiency, better thermal insulation, acoustics & energy efficiency
- Being light in weight results in lower dead load of building & foundation size
- Higher stories can be constructed using structural frames
- Being factory produced, ensure consistent quality
- Can be relocated easily
- Less wastages during construction
- Panels are very light in weight. The weight of one module of size 3000mm x 600mm x 50mm is approx. 70 kgs which can be handled manually.
- With high quality boards as skin, Rapicon Wall panels have a smooth finish and are dimensionally stable with resistance to moisture/humidity.

ECONOMIC ASPECTS

Being factory-produced component, the cost competitiveness depends on economy of scale. However, dry walling system with lesser manpower requirement & reduced project duration help in overall reduction of project cost.



SUSTAINABILITY ASPECTS

- The panels use fly ash, an industrial waste from thermal power plants
- Panels have low density with lesser amount of materials consumed
- Lower foundation size in buildings
- Thermal insulation is better as the U Value of Rapicon wall system is 1.85 W/m²K as compared to 6.03 W/m²k of 9" plastered brick wall.
- Fire rating of Rapicon wall system is 134 Mins
- Cooler interiors as against brick work.



SUITABILITY & AVAILABILITY

- Suited for all weather conditions.
- Can be transported across the country and other finishing materials are also readily available at all places.
- The Panels come in three sizes, i.e., 2.4 mtr, 2.7 mtr & 3.0 mtr in length, and 0.6 mtr width and two available thickness: 50 mm & 75 mm.
- Everest Rapicon Panels are designed for interior wall applications and also partitions wherever there is no direct exposure to outside weathering conditions. However, the exposed surface will have to be coated with exterior paints.



LIMITATIONS, IF ANY

- The joints of panels with each other need to be perfectly locked by materials (cement, glue, dowel bars, polymer modified mortar etc.) & mechanism (leveling of panels etc.) prescribed by Panel manufacturer.
- Cutting/chiseling of panels for openings such as doors, windows, service conduits etc. requires little training & through tools/machines prescribed by Panel manufacturer.
- The panels if used as floors/ roofs, shall require screeding concrete of minimum 35 mm thickness with nominal reinforcement/ GI wire mesh for monolithic action to avoid leakage through panel joints.

MARKET LINKAGES

- The product can be supplied Pan India.

MAJOR PROJECTS

- Government Sr. Secondary School, PWD, Delhi,
- D. Y. Patil Dental College, Navi Mumbai, Mumbai
- Silver Oak College of Engineering & Technology, Ahmedabad
- Ansal Institute of Technology, Lucknow
- Baby Memorial Nursing College, Calicut
- Vibgyor High School, Goregaon (E), Mumbai



CERTIFICATION/INDIAN STANDARD/ ENDORSEMENT

- Panel included in CPWD DSR 2021.

