

CATEGORY BUILDING SYSTEMS



PRODUCT / TECHNOLOGY



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Technology Detail

S3 PRE-ENGINEERED HOMES COMPRISES OF WALL & FLOOR PANELS CONSISTING OF CORRUGATED SHEET IN BETWEEN TWO CEMENT FIBRE BOARDS



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Video

Alternate to conventional bricks/blocks masonry wall & Non load bearing roof

CONTACT DETAILS

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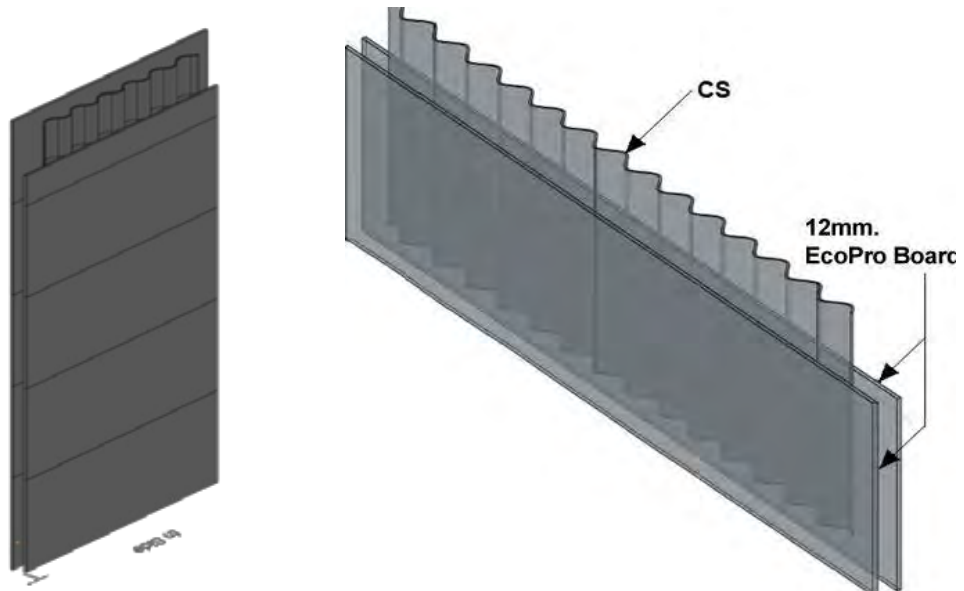
BRIEF

The system mainly comprises of a beams and columns assembly constructed as per the design of the building unit, with wall panels, flooring panels/ roof panels constructed using corrugated sheets in between two outer flat sheets. The wall panels are ventilated from top to bottom and improve livable condition of user in terms of heat, fire and sound.

The prefabricated modular construction system supports transportation, and assembling in almost any terrain. The multi-layered wall panels are quick to assemble and durable.

The system is particularly suitable for individual single storied scattered houses in affordable housing segment.

The system has been developed in the R&D Lab of the Agency in the year 2019 with Patent applied.



SALIENT FEATURES

- S3 is a speedy, innovative and a sustainable building solution to enable cost-effective & quality construction.
- Being a dry construction, no plastering or curing is required, hence amounting to huge savings of water and sand.
- Three Layered Hybrid Wall for good thermal Insulation with Leak proof wall.
- Can be used for both Interior and Exterior walls.
- Very much suited for difficult hilly terrains and sites.
- Semi-Skilled Labours can also execute the Job.
- Strong and lightweight.
- Termite resistant, Fire resistant & Earthquake resistant.

ECONOMIC ASPECTS

- S3 structures can reduce the total construction time by almost 70% - 80% allowing faster occupancy and earlier realization of revenue.
- Essentially pre-engineered/ factory made, cost competitiveness depends on economy of scale.
- Mainly formed by standard sections and inter-changeable parts making the construction process simple.
- Less wastage, less time in designing, erecting, transportation and less variation between estimated and actual cost.



SUSTAINABILITY ASPECTS

- S3 wall panels eliminate the use of bricks completely, hence helping in the conservation of cultivable topsoil.
- The wall panels are made up using 30% fly ash, which is the waste of Thermal Power Station.
- It uses slopping roof concept & does not create heat island effects caused due to concrete slab, which is in line with UNFCCC guidelines on Global warming.
- Reduced water requirements in construction (No plastering and curing required)
- Minimise air pollution considerably since these are essentially factory made homes

SUITABILITY & AVAILABILITY

- Suitable for all climatic conditions
- Plants across Western and Southern India
- Production capacity of 50,000 MT of roofing materials and 8000 MT of cement boards every month.

LIMITATIONS, IF ANY

- Recent development, requires further evaluation/ certification of structural integrity of the system.



MARKET LINKAGES

- Can be supplied pan India

MAJOR PROJECTS

- Various locations in Kerala

CERTIFICATION/INDIAN STANDARD/ ENDORSEMENT

- Various Tests have been conducted at College of Engineering Pune
- S3 has been applied for Patent under application no. 201921022801 dt. 08/06/2019.

