





Welcome to RAPIDCON

The Future of Smart Home Construction

Build 3X Stronger, Up to 30% Cheaper and 20% Faster

Say goodbye to slow, expensive, and outdated brick-and-mortar construction. At RAPIDCON, we are India's Leading and most affordable manufacturer of high-performance 3D EPS panels. RAPIDCON's 3D EPS technology provides a monolithic, reinforced concrete building system designed to optimize structural integrity, thermal efficiency, and project timelines.

Whether you are an architect looking for an efficient, versatile and sustainable construction methods, a contractor managing time, labor and material costs, or a homeowner seeking a durable and energy-efficient home, RAPIDCON offers a practical, modern structural solution for all.

WHAT IS 3D EPS PANEL?

THE POWER OF RAPIDCON 3D EPS TECHNOLOGY

Designed for wall and roof applications, RAPIDCON's 3D EPS panel system combines a High density Expanded Polystyrene (EPS) core with two layers of high-tensile welded steel wire mesh to create a rigid 3D framework.

Once the EPS panels are installed and plastered with layers of micro-concrete mortar mix it creates an excellent monolithic, reinforced concrete structure that is highly insulated, load-bearing, and significantly lighter than standard masonry.

Versatile Applications

RAPIDCON 3D EPS panels are versatile and can be specified for a wide range of load-bearing and non-load-bearing applications, including:

- ▶ **Exterior load-bearing walls for multi-story structures**
- ▶ **Interior partition walls**
- ▶ **Floor, slabs and roofing**
- ▶ **Boundary walls, retaining walls, and facades**
- ▶ **Extensions or additions to existing buildings**

OUR 3D SCIP/ EPS BUILDING SYSTEM COMPLETELY REPLACE TRADITIONAL MASONRY FOR BUILDING LOAD-BEARING WALLS, FLOORS, AND ROOFS, DELIVERING MEASURABLE STRUCTURAL AND ECONOMICAL ADVANTAGES ACROSS THE ENTIRE LIFECYCLE OF YOUR PROPERTY.

THE POWER OF RAPIDCON 3D EPS TECHNOLOGY

3D EPS construction technology is up to 3 times stronger than traditional brick or block construction methods, making them the ultimate solution for building structures that stand the test of time. With features like:

EARTHQUAKE AND HURRICANE RESISTANCE: Unlike traditional brick walls with mortar joints that can crack under stress, our panels form a continuous reinforced concrete shell. This monolithic structure absorbs and distributes structural stress, offering exceptional resistance to impact, high wind loads and seismic activity.

SUPERIOR THERMAL INSULATION: Buildings built with 3D EPS panels perform brilliantly in both insulation and load-bearing functions: the thickness and density of the panel can be customized to deliver specific thermal insulation requirements. Furthermore, the EPS core extends throughout the surface which makes up the building envelope, eliminating thermal bridging and keeping the building insulated.

LOAD CARRYING CAPACITY: Numerous lab tests, performed in different parts of the world, have highlighted the high load carrying capacities of the EPS panel. After compression testing with centred load performed on a plaster finished 3D EPS panel, 2700mm high, have shown that they withstand a maximum load of up to 1530 kN/m $\approx$ 156 ton/m. The monolithic joints of the building system provide a high level of structural strength to the buildings.





RAPID INSTALLATION: The 3D EPS technology has been used in many building projects, in diverse conditions, and with all types of labors in different parts of the world. Because of its light weight, assembling speed and the ease of building, these building experiences showed a marked reduction in construction time compared to traditional building methods.

COST EFFECTIVENESS: Because the panels are up to 60% lighter than traditional masonry, they reduce the total dead load of the building, which can lower foundation, structure and shuttering rentals costs. Additionally, the EPS panels are fast to install reducing labor time and speeds up overall project timelines and save labour cost.

ECO-FRIENDLY AND REUSABLE: 3D EPS panel construction process consumes about 50% less water during construction, and our EPS panel factory and process uses less energy and electricity compared to other EPS panel manufacturing and brick making units. Furthermore, our 3D EPS panels are 80-85% reusable, including plaster coats and slab concrete. These environment friendly processes, minimizes construction waste and significantly reduces the carbon footprint of your building project as well as gives you a greater value for investment.



VERSATILITY: The EPS technology promotes complete design flexibility, being equipped with a complete range of building elements: load-bearing walls, partition walls and slabs, boundary walls, water tank, septic tanks, swimming pools etc. Therefore, the system is suitable for constructing buildings of any type. In addition, it is possible to easily obtain any geometric shape or size by simply cutting or joining the EPS panels on-site.

ENGINEERING THE FUTURE OF SMART CONSTRUCTION

As a premier manufacturer of 3D EPS panels scientifically known as SCIP (Structural concrete insulated panels), we provide an advanced, high-performance alternative to slow and resource-heavy traditional masonry.

We empower architects, engineers, contractors, and homeowners with structural solutions designed for unmatched strength, speed, and sustainability.



What truly sets us apart is our homegrown innovation. We have self engineered, designed and build our customized manufacturing machineries optimized specifically for local conditions and requirements. Unlike standard, inefficient and heavy equipments used by other manufacturers, our proprietary setup consumes significantly less electricity while producing low wastages and emissions.

This lean, eco-friendly manufacturing process drastically reduces our production overhead, allowing us to deliver comparatively better quality of 3D EPS panels at highly affordable prices.

RAPIDCON 3D EPS PANELS: STANDARD SPECIFICATIONS

Explore our comprehensive range of industry-standard 3D EPS panel configurations as per their scope, ensuring rapid procurement and immediate availability for your project. For specialized architectural or structural demands, our proprietary manufacturing facility also offers fully customized panel production allowing you to choose EPS core thickness, mesh density, and wire specifications to your exact project requirements.

RW-75

75 mm EPS Wall Panel

The most affordable EPS panel for building main walls on affordable projects, partition walls, compound walls, parapet walls and expansion of old buildings.

145 mm thick wall after plaster

- Size: 1m x 1 m (10.76 sqft)
- Size: 1m x 3 m (32.29 sqft)
- EPS core thickness: 75 mm
- Mesh pitch: 75x75 mm
- Mesh wire dia: 2.5 mm
- Truss wire dia: 2.5 mm

RW-100

100 mm EPS Wall Panel

EPS Panel for building main walls, provide better thermal insulation, compound walls and load-bearing walls upto standard G+1 Buildings (without structure)*.

170 mm thick wall after plaster

- Size: 1m x 1 m (10.76 sqft)
- Size: 1m x 3 m (32.29 sqft)
- EPS core thickness: 100 mm
- Mesh pitch: 75x75 mm
- Mesh wire dia: 2.5 mm
- Truss wire dia: 2.5 mm

RW-150

150 mm EPS Wall Panel

Panel for building highly insulated main walls, provide superior insulation and good for load-bearing walls upto standard G+2 buildings (Without structure)*

220 mm thick wall after plaster

- Size: 1m x 1 m (10.76 sqft)
- Size: 1m x 3 m (32.29 sqft)
- EPS core thickness: 150 mm
- Mesh pitch: 75x75 mm
- Mesh wire dia: 2.5 mm
- Truss wire dia: 2.5 mm

RS-100

100 mm EPS Slab Panel

EPS Panel for building slab / roof on affordable residential projects, maximum span of up to 6 meters on structured buildings.

210 mm thick slab after concrete and ceiling plaster.

- Size: 1m x 1 m (10.76 sqft)
- Size: 1m x 3 m (32.29 sqft)
- EPS core thickness: 75 mm
- Mesh pitch: 75x75 mm
- Mesh wire dia: 2.5 mm
- Truss wire dia: 2.5 mm

RS-120

120 mm EPS Slab Panel

EPS Panel for building slab / roof on affordable residential projects, maximum span of up to 5 meters on non-structured buildings.

230 mm thick slab after concrete and ceiling plaster.

- Size: 1m x 1 m (10.76 sqft)
- Size: 1m x 3 m (32.29 sqft)
- EPS core thickness: 100 mm
- Mesh pitch: 75x75 mm
- Mesh wire dia: 2.5 mm
- Truss wire dia: 2.5 mm

RS-150

150 mm EPS Slab Panel

EPS Panel for building highly insulated slab / roof with maximum span of up to 8 meters on non-structured buildings.

260 mm thick slab after concrete and ceiling plaster.

- Size: 1m x 1 m (10.76 sqft)
- Size: 1m x 3 m (32.29 sqft)
- EPS core thickness: 150 mm
- Mesh pitch: 75x75 mm
- Mesh wire dia: 2.5 mm
- Truss wire dia: 2.5 mm

ALL OUR 3D EPS PANELS INTEGRATE PERFECTLY WITH TRADITIONAL RCC OR STEEL COLUMN-AND-BEAM STRUCTURES. THEY PROVIDE STRONG, LIGHTWEIGHT, HIGHLY INSULATED WALL AND ROOFING SOLUTIONS FOR MULTI-STOREY AND HIGH-RISE BUILDINGS, REDUCING THE OVERALL DEAD LOAD ON FOUNDATION

CONSULT OUR TECHNICAL TEAM TO KNOW THE BEST SUITABLE PANEL OPTIONS FOR YOUR PROJECT

ON-SITE SUPERVISION SERVICE: EXPERTISE, EVERY STEP OF THE WAY

Building with our revolutionary 3D EPS technology is smart, strong, and swift. To ensure your vision is executed flawlessly, we offer expert on-site supervisor service. Our trained and expert supervisors are intimately familiar with the nuances of 3D EPS panel construction, ensuring optimal installation and performance.



How to Install EPS wall panels on a structure or non-structure building



How to cut and reinforce the door and window openings



How to do the concealed electrical-plumbing work on EPS panel



Suitable methods of plastering on EPS panel wall



Installation of EPS panel slab



Slab reinforcement and concrete work





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FOR MORE PHOTOS



WHY CHOOSE RAPIDCON?

3 SIMPLE REASONS TO CHOOSE RAPIDCON



INNOVATIVE TECHNOLOGY

3D SCIP / EPS technology is the future of construction, offering unparalleled strength, speed, and sustainability



QUALITY ASSURANCE

We ensure the highest quality standards in our products, guaranteeing durability and performance.



EXPERTISE

Our team of experienced professionals provides expert guidance and support, ensuring your project is a success.

At RAPIDCON, we revolutionize construction with advanced SCIP / 3D EPS Panel technology— delivering stronger, and energy-efficient building solutions. Our innovative solutions offer superior insulation, durability, and sustainability, reducing carbon footprint and costs. Experience the future of construction today.



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