

SSIP

STEEL STRUCTURE INSULATED PANELS

Future of Wall Systems, Engineered in India, Build for the World,



HomeStay
Multi-Comfort PreFab House

 www.hsstructures.com

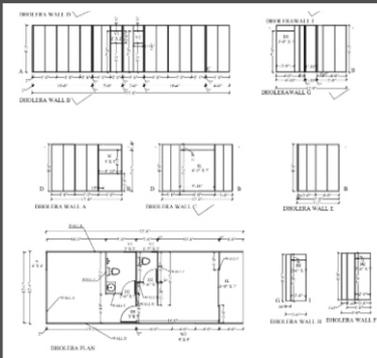
ABOUT US

HS Structures Pvt. Ltd. brings over 14 years of expertise in the prefab industry, led by Mr. Hiren M. Shah, a civil engineer, former contractor, and experienced project management consultant. Recognizing the urgent need to reduce on-site labor and speed up construction, he innovated the SSIP (Steel Structure Insulated Panel) system—India's first patented load-bearing panel technology.

Our panels are lightweight, quick to install, and highly durable—offering a smart, sustainable solution for housing, industrial sheds, site offices, and more. At HS Structures, we are proud to deliver next-generation prefab solutions that are fast, reliable, and export-ready.

PREFAB KIT-PROCESS FLOW

● FACTORY WORK



Detail Working Drawing



Fabrication of Frame



Trial Erection At Factory



Packing And Loading

● SITE ACTIVITY



Wall Frame Erection



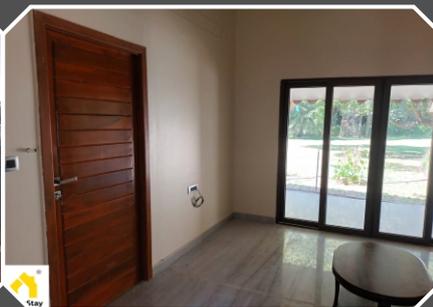
Roof Frame fitting



Roofing



External Cladding



INSIDE FINISHING



COMPLETE STRUCTURE

Leading Innovations in Prefab, Proven across Territories, Built to Last

PRODUCT ADVANTAGE

Product Highlights

- Patented Integrated Welded Steel Tubular Pipe System
- 3X Load Capacity, Sleek & Compact
- Pretested, Certified Materials
- Prefitted Doors & Windows



TRIAL ERECTION AT FACTORY

- No Heavy Equipment Needed for Installation
- Concealed High-Quality Electric Conduits
- Better Fire, Earthquake, & Wind Resistance
- 70%+ Reusability

Multi Comfort Prefab Walls System

Innovative new age construction technology

INSULATION OPTION

ROCKWOOL

PU FOAM

POLYSTYRENE FOAM

METAL CLADDING



CLADDING OPTION

METAL CLADDING

CALCIUM SILICATE BOARD

OSB BOARD

CEMENT FIBER BOARD

Technical Data Estimated

**for 12 ft x 12 ft House*

Property	Value / Specification
Thermal R-Value	1.417 m ² ·K/W
Thermal U-Value	0.706 W/m ² ·K
Overall Fire Resistance	60 minutes (Rockwool + Cement Fiber Board)
Estimated Sound Reduction (STC)	approx. 40–45 dB
Vertical Load Bearing (per panel)	Approx 1800–2000 kg/Frame (with center MS 50×25×2 mm pipe) – Tested in Laboratory
Wind Load Resistance	approx. 2.5 kN/m ² (~180–200 km/h wind) @ 600 mm wedge anchor spacing
Seismic Resistance	Suitable for Seismic Zone IV (India), bolted + anchored @ 600 mm c/c
Wall Panel Size	1220 mm × 2440 mm
Panel Composition	Periphery and central 50x25x2mm pipe, 10 mm Cement Board + 50 mm Rockwool + 10 mm Cement Board,
Insulation Material	Rockwool (48–90 kg/m ³ density)
Roof Slope	600 mm ridge rise over 2440 mm wall height
Panel Joinery	M10 Nuts & Bolts (3 per side)
Anchoring System	12 mm wedge anchors at 600 mm center-to-center

SSIP , The Smarter Alternate to all Prefab Systems

KEY CLIENTS



Contact Us

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*Let's Build Smarter, Faster & Stronger with **SSIP!***