

BuildGreen SIPs

Progressive Building Systems for Sustainable Structures



THE PRODUCT

BuildGreen SIPs, LLC (“BuildGreen”) provides Structural Insulated Panels (SIPs), SIPs accessories, and SIPs related services for walls, roofs, floors and foundations.

Structural Insulated Panels (SIPs)

BuildGreen SIPs are available in thicknesses of 4 1/2”, 6 1/2”, 8 1/4”, and 10 1/4”. The “skins” or sheathing of the panels are typically either 12mm (14mm in the case of floor panels) Exposure 1 RESCOM (Magnesium Oxide - MGO) or 7/16” oriented strand board (OSB). The insulated core of the SIP is made from expanded polystyrene (EPS). Wire chases can be provided in any SIP.

SIPs Installation Accessories

The following specialized installation accessories are normally included:

SIPs Installation Accessories

The following specialized installation accessories are included THE SERVICES

The following services to assist you with utilizing SIPs are normally included.

Panel Layout, Fabrication, and Construction Drawings

We create a panel design based on your construction drawings. Our designers have a thorough understanding of how to best incorporate SIPS into your project to satisfy structural requirements and optimize panel cutting. The final layout drawings are used for preparing fabrication drawings for manufacturing the SIPS. Construction drawings will be provided to you that depict the SIPS installation using a simple numbering system corresponding to the identification labels that are applied to each panel at the factory.

Factory Fabrication

Panels are first manufactured as full size “blanks” using full size sheets of MGO or OSB, with the EPS foam core running to the edges of the sheets. Factory fabrication is then utilized to cut the SIPS for your project based on the panel layout and fabrication drawings. The EPS core is then shaped at the panel edges to accommodate the specific surface or lumber spline material required. The careful design and fabrication process minimizes the amount of job-site labor required while also minimizing the amount of job-site waste generated.

Job Site Delivery

The SIPS will arrive on a full-size flatbed tractor-trailer that measures 8 feet wide high by approximately 80 feet long and up to by 14 feet high. The SIPS are arranged in stacks with blocking as required to protect the panels during shipping and unloading, and are strapped and shrink wrapped. The stacks have a footprint no larger than the largest full-size panels (typically 4 feet by 8 or 10 feet) and will weigh up to 1,200 pounds. .

On-Site Installation Instruction

One day of on-site instruction is provided by a BuildGreen representative for the contractor building the project. Most workers become proficient with SIPS installation very quickly. BuildGreen can provide additional services upon request, including SIPS installation labor, and structural engineering services for complex projects.