

SIPs for loghome roofs

Pre-cut SIPs close in fastest

Get that expensive log package stable in a hurry



Our CNC equipment and extremely close tolerance allow for the quickest roof installation in the log industry. Our “hats” are designed to make your log home comfortable. With comfort and

performance that is less reliant upon site workmanship you can relax and know that you do not have roof insulation issues- now or ever.

Making panels in the Southeast for 25 years

We have been making panels- SIPs, nailbase, osb/gyp, TimberSkins, and specialty laminated panels long enough to get it right. When we offer a 25 year warranty, we’ve actually been around long enough to back it up.

Our Grenada, MS Plant offers jumbos (8’ x 24’) pre-cut by state-of-the-art CNC equipment by Weinmann- a world leader in CAD/CAM finished goods fabrication. Nobody has closer tolerances.

Our Johnson City, TN Plant focuses on the least expensive blank panels in the industry- designed for your builder to field cut and install- usually the least expensive option.

Either way, we’ve been there and done that. Count on our experience.

OTHER PANEL OPTIONS FOR LOG HOMES

In addition to CNC pre-fabricated SIPs, we also manufacture blank SIPs in various sizes, TimberSkins (similar to SIPs but utilizing recycled EPS resulting in shorter spans), nailbase (OSB laminated to EPS foam for use over T&G pine decks, and specialty laminated products (OSB one side with drywall, T-11 or beadboard on the other side). The fabricated SIPs are manufactured in Grenada, MS. The other panels

are manufactured in Johnson City, TN. All TN panels are 4’ wide.

Please call to discuss the best option for your home. We try to stay current on Building Code changes relating to log home construction.



Log Home Roof

Insulation and Structure

Log Home package manufacturers often send low cost insulation materials as part of their package, or leave roof insulation choices to the General Contractor on the job. The Contractor generally decides how to insulate based on his experience with conventional roof systems, subcontractor experience and availability, and his relative profit margins. This is unfortunate because it often leads to higher construction cost, substandard roof insulation and higher operating expenses to the homeowner.

Most Log Homes have energy efficient walls and significant interior volume by virtue of their design. This is an arrangement which calls for a closed roof insulation system - ceiling, insulation and roof as a single unit.

Typically, General Contractors either put fiberglass batts between ceiling and roof (which requires attic venting and, therefore insulation effectiveness reduction, or build up a rigid foam roof with sheets of rigid foam between furring strips and covered with sheathing. Although a rigid

foam built up roof does insulate better than fiberglass (more R-value per inch)- due to air spaces, thermal breaks, and venting, the insulation is still not up to the standards set by the rest of your structure. More significantly, these "built-up" systems have substantial risk for moisture problems, often leading to infestation and rot.

An alternative method has been used in the timber frame industry for years. It's called structural insulated panels. Structural panels are made of rigid foam (usually EPS-expanded polystyrene) laminated to OSB (oriented strand board). With OSB laminated to only one side, you have a nailbase panel, which is suitable for use over tongue and groove decking. With OSB on one side and drywall on the other you have a finished interior surface (except for taping and sanding) which can span up to 48" o.c. With OSB on both surfaces, spans can reach 16'.

These panels are closed systems- venting is not required, so none of the insulation benefit is lost to venting, nor is there a space available to trap moisture as the air cools. Since the panels are sealed and splined together with OSB, thermal breaks are minimized. Additionally, since the surfaces of the three

elements of the roof- ceiling, insulation and roof nailing surface are either laminated or mechanically fastened, no space exists for pests to inhabit, a common complaint of homeowners with built-up roof insulation systems.

The panels are much stronger than other roof construction methods. Many log home owners that have used panels in their roof systems comment on how much quieter their homes are than neighbor's homes with other roof systems.

Surprisingly, panel roofs are usually less expensive to install than other roofing systems, primarily due to labor savings. Cathedral ceilings are ALWAYS less expensive when panels are used. Unfortunately, since most Contractors make their profit on labor, they are often unenthusiastic about panel use. Fortunately, many loghome manufacturers now offer panels and installation with their log packages.



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Plants in Grenada, MS and Johnson City, TN