SPANELS
STRUCTURAL PANEL SYSTEMS

STRONGER BUILDINGS.
BUILT TO YOUR PLANS.

Project-specific structural insulated panel systems for walls, roofs and floors — cut, labeled and delivered from our plant in Idaho Falls, Idaho.



SEND US YOUR PLANS

Free estimate • Building with SIPs since 2004 • Member, Structural Insulated Panel Association

(208) 552-1700 | info@spanels.com | spanels.com 2420 Heyrend Way, Idaho Falls, ID 83402



OSB – EPS foam – OSB. A panel edge shows the sandwich: two structural skins bonded to a continuous insulating core.

SYSTEM BASICS

ONE PANEL. THREE FUNCTIONS.

A structural insulated panel (SIP) is a factory-built sandwich: rigid foam bonded between two structural facings. It does the work of the studs, insulation and sheathing in a framed wall.

1

STRUCTURAL OSB FACINGS

Oriented strand board skins carry the loads and give you a sheathed, nailable surface on both sides.

ON THE JOB Strength and sheathing arrive as one component.

2

EPS FOAM CORE

Rigid expanded polystyrene runs edge to edge, with no studs to interrupt the insulation.

ON THE JOB Continuous insulation across the whole panel field.

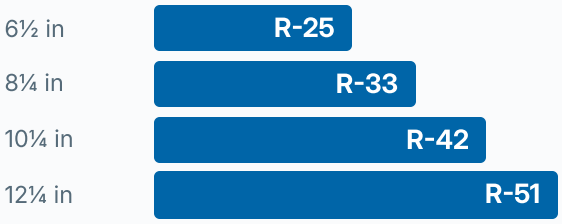
3

BONDED COMPOSITE

Facings and core are laminated and pressure-cured so they act together as a single structural panel.

ON THE JOB One coordinated part replaces several field-installed layers.

R-VALUE BY THICKNESS



Per sPanels technical literature. Whole-wall performance also depends on joints, openings and details.

2004
Building SIPs since

4 × 24 ft
Largest panel size

20 yr
Limited warranty

48+AK+HI
Plus Canada delivery

WHY SIPS

THE NUMBERS BEHIND THE BENEFITS

45%

of the labor hours of conventional framing to erect SIP walls, roof and dormers

89%

of the labor hours of a conventional house to rough-wire the same SIP walls

50–60%

annual energy savings reported for SIP homes with other high-performance systems

37%

of the energy per sq ft of an average new home: the sPanels Afton, WY home was projected at 18,400 Btu vs. 50,400

Sources: RSMeans (Reed Construction Data) time-and-motion study for BASF, Nov. 2006; SIPA consumer brochure; sPanels Afton SIP Home Energy Study (2011), using EPAct tax-credit reporting and 2010 U.S. Census data.

WHAT IT MEANS ON YOUR PROJECT

BUILT FASTER. LIVED IN BETTER.

FASTER ENCLOSURE

Large factory-cut panels arrive with openings and wiring chases ready, so the building goes up in a fraction of the framing time.

LOWER ENERGY USE

Continuous foam and sealed joints cut heat loss and air leakage. In Oak Ridge National Laboratory blower-door tests, the SIP room leaked far less than the wood-framed room.

STRONGER AND QUIETER

Structural OSB skins bonded to the core give high racking and load performance, and the solid panel absorbs outside noise.

LESS WASTE

Panels are cut in the plant, so there is far less jobsite scrap. OSB comes from fast-growing trees and the foam includes recycled material.





WHERE SIPS FIT

ONE SYSTEM. MANY BUILDING TYPES.

From straightforward shops to complex mountain homes, SIPs adapt to a wide range of projects.

CUSTOM HOMES + CABINS
Energy-efficient shells, from modern to rustic.

SHOPS + GARAGES
Quick to enclose, easy to heat and cool.

MULTIFAMILY + ADUS
Repeatable layouts with tight, quiet envelopes.

COMMERCIAL
Offices, retail and light commercial buildings.

AGRICULTURAL
Barns, shops and storage that hold their temperature.

TIMBER FRAME + MOUNTAIN
SIP and heavy-timber homes built for deep snow.

COMMUNITY BUILDINGS
Care facilities, park buildings and public spaces.

ADDITIONS + RETROFITS
Walls-only additions and selected retrofits.

NOT SURE A SIP FITS YOUR PROJECT?
Send us the plans. We will tell you what works, what to watch and what it costs.

HOW A PROJECT MOVES THROUGH SPANELS

FROM YOUR PLANS TO A BUILD-READY PANEL PACKAGE

A coordinated process designed to catch questions earlier, reduce field surprises and help your crew install efficiently.

1. DEFINE SCOPE
Confirm what is SIP, project goals and target schedule.

CUSTOMER BENEFIT
Clear scope prevents pricing and coordination gaps.

2. REVIEW
Check dimensions, openings, structure and special conditions.

CUSTOMER BENEFIT
Earlier review means fewer questions and less rework.

3. PANEL PLAN
Create panel IDs and easy-to-follow shop drawings.

CUSTOMER BENEFIT
Your crew gets a clear roadmap for assembly.

4. REVIEW + APPROVE
You and sPanels review the package together before release.

CUSTOMER BENEFIT
A checkpoint before any material is fabricated.

5. FABRICATE
Cut, label and organize panels to the approved geometry.

CUSTOMER BENEFIT
More done in the plant means less field fabrication.

6. BUNDLE + DELIVER
Plan loading, access, unloading and install sequence.

CUSTOMER BENEFIT
Organized bundles mean less time sorting on site.

7. FIELD SUPPORT
Use the approved drawings with sPanels support for panel questions.

CUSTOMER BENEFIT
Help is a phone call away when questions come up.



THE RESULT

Better coordination before production, fewer jobsite surprises, less field fabrication and a package organized to help installation move efficiently.

YOUR SCHEDULE?

Lead time varies with size, engineering, approvals and current production. Contact sPanels early so we can coordinate your target delivery date.

BEFORE PRODUCTION

DETAILS RESOLVED EARLIER. FEWER SURPRISES LATER.

The best time to solve a coordination issue is before the panel reaches the saw, not after it reaches the jobsite.

1 SCOPE

Which walls and roof areas are SIP, and what is by others.

WHY Avoids assumptions and pricing gaps.

2 GEOMETRY

Heights, gables, slopes and transitions, confirmed to the plans.

WHY Helps the package fit the intended building.

3 OPENINGS

Doors, windows and special framing, located and detailed.

WHY Reduces field changes at critical openings.

4 STRUCTURE

Headers, beams, support lines and connections.

WHY Keeps panel planning aligned with engineering.

5 PANEL LAYOUT

IDs, joints, orientation and fabrication geometry.

WHY Gives installers a clear assembly roadmap.

6 DELIVERY

Access, unloading, staging and install sequence.

WHY Material arrives ready for how the site is used.

IN OUR PLANT

CUT TO APPROVED GEOMETRY

Openings, slopes and cuts prepared from released drawings.

LABEL FOR THE DRAWINGS

Panel IDs tie the physical package to the shop drawings.

ORGANIZE THE PACKAGE

Grouped for transport and handling.

RELEASE WITH CONFIDENCE

Geometry and structure questions resolved before fabrication.



Panels staged and numbered in the plant. Each ID matches the approved shop drawings.



DELIVERY + SITE PLANNING

A GOOD INSTALL STARTS BEFORE THE TRUCK ARRIVES.

Access, unloading and staging decisions can be the difference between an organized start and a day spent moving material.

ACCESS
Confirm truck route, turning room and a safe unloading position.

UNLOADING
Have the right forklift, telehandler or crane ready.

STAGING
Choose dry, level ground close to the installation sequence.

WEATHER
Keep bundles elevated and protected from standing water.

SEQUENCE
Know which bundles and panels the crew needs first.

DRAWINGS
Keep the approved panel layout on site during unloading.



INSTALLATION

SET. PLUMB. BRACE. CONNECT. SEAL.

A coordinated panel package lets the crew spend more time assembling and less time figuring out what comes next.

VERIFY THE START

Confirm panel IDs, openings and starting locations.

START RIGHT, PROTECT THE SEQUENCE

SEAL AS YOU GO

Install specified foam, sealant and tape before joints close.

AVOID REOPENING FINISHED WORK

PLUMB + BRACE

Hold wall sections straight and stable during erection.

KEEP THE SHELL ALIGNED

CONNECT AS DETAILED

Follow approved fasteners, splines, plates and connections.

PRESERVE THE ENGINEERED LOAD PATH

PROTECT EDGES

Keep exposed panel edges dry during construction.

PROTECT THE ASSEMBLY

ASK BEFORE CUTTING

Do not alter structural facings or framing without direction.

A QUICK CALL CAN PREVENT A COSTLY FIX

Questions in the field? Call before you cut. sPanels field support • (208) 552-1700

TRADE COORDINATION

PLAN SERVICES BEFORE THEY BECOME FIELD CONFLICTS.

Early coordination protects the envelope and gives electrical, plumbing and HVAC trades a clearer path.



ELECTRICAL

Use the factory chases and approved box and access details. Never cut the exterior OSB face. See detail E-1 on the next page.

WHY Keeps wiring inside the panel without weakening it.

PLUMBING

Interior walls are often the better home for plumbing. Coordinate any exterior-wall runs before panels are made.

WHY Helps keep exterior SIP walls intact.

HVAC

Size equipment from a project-specific load calculation and plan fresh-air ventilation for a tight envelope.

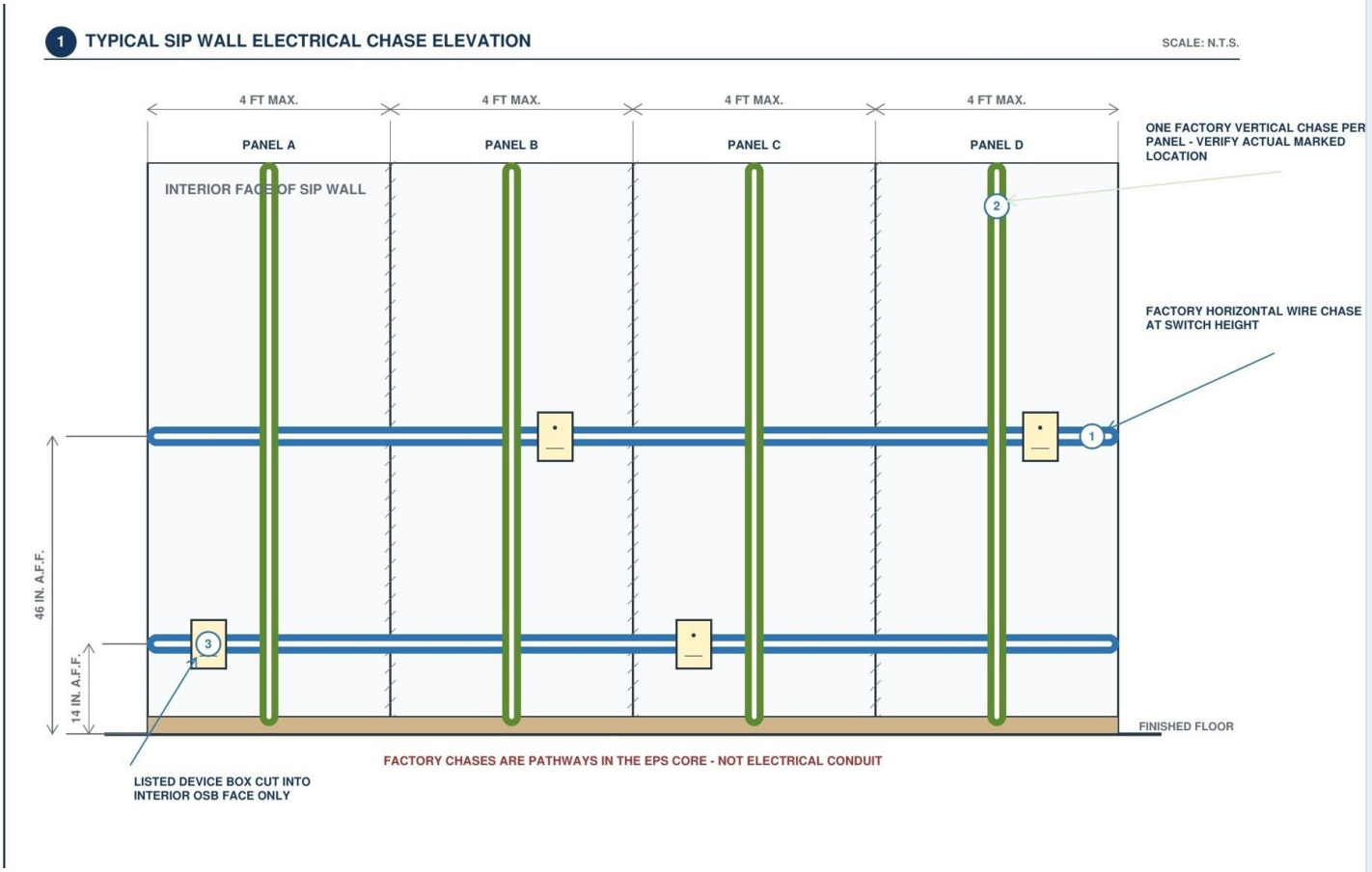
WHY Right-sized equipment and healthy indoor air.

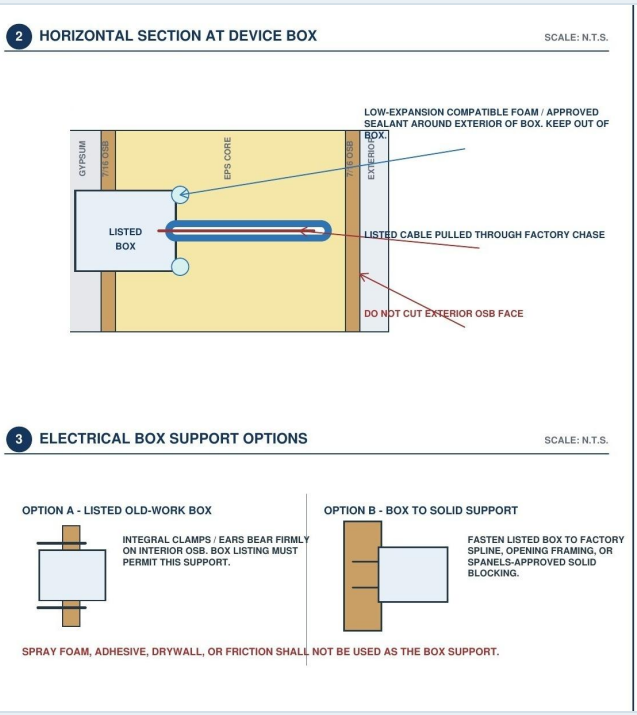
PENETRATIONS

Locate vents, flues, ducts and other penetrations on the drawings before fabrication.

WHY Protects structural facings from field cutting.

ELECTRICAL – 6½-INCH WALL PANELS





INSTALLATION NOTES

- Verify factory chase marks and approved SIP layout drawings before drilling or cutting. Chase locations shown are nominal.
- At each device, trace the listed box and cut only the interior 7/16-inch OSB facing. Remove the minimum foam required for the box.
- Cable may enter from above or below through an aligned hole in the top or bottom plate, or through a factory horizontal chase.
- Use a wiring method permitted by the adopted electrical code. Comply with cable support, physical protection, box fill and grounding requirements.
- Install nail plates or equivalent protection where required. Air-seal the exterior of box pockets and chase access holes after rough-in.
- No continuous face slots, plumbing, HVAC or field-routed chases are permitted. Do not cut exterior OSB, splines, plates, headers or opening reinforcement without written approval.

Example manufacturer detail. Not a substitute for project electrical design or AHJ approval; current project drawings and the adopted electrical code control.

ROOF + WALL ASSEMBLIES

PERFORMANCE DEPENDS ON THE WHOLE ENVELOPE.

Panels are one part of a complete air-, water- and vapor-control strategy. Details at joints, openings and transitions matter.

PANEL JOINTS

Seal joints and transitions as detailed.

WHY Continuity supports airtightness.

WRB + FLASHING

Coordinate drainage, window and door flashing and exterior water control.

WHY Keeps bulk water moving out, not in.

ROOF ASSEMBLY

Coordinate underlayment, roofing, penetrations and edges.

WHY Protects roof SIPs from moisture.

CLIMATE CONTROL

Select vapor-control materials for the climate and assembly.

WHY Avoids one-size-fits-all moisture details.

EXPOSED EDGES

Protect panel edges during construction and in the finished assembly.

WHY Keeps vulnerable edges dry.

PROJECT DETAILS

Use sPanels drawings and project engineering for the actual job.

WHY General guidance never replaces project-specific details.



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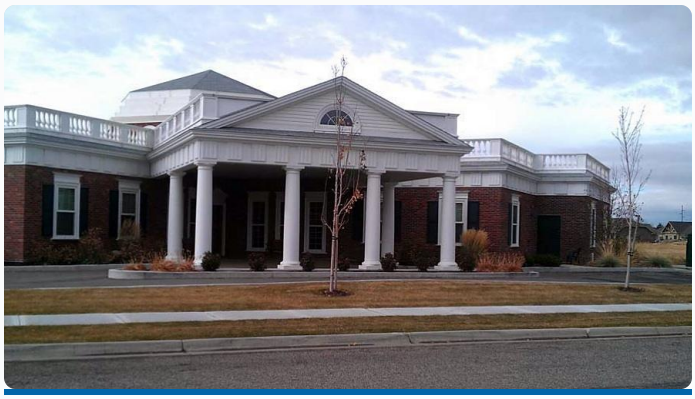


Built for mountain weather.
Tamarack Resort, Valley County, Idaho (2008): an area that can see 300 inches of snow in a season.

PROJECT EXPERIENCE

BUILT FOR MORE THAN ONE KIND OF PROJECT.

sPanels experience spans residential, mountain, community and other SIP applications.



MONTICELLO ASSISTED LIVING

Idaho Falls, Idaho

A semi-ambulatory residential care facility built with sPanels, including its central octagonal dome. Located in a seismic design zone D.



HARRIMAN STATE PARK CABINS

Island Park, Idaho • 2009

Five multi-unit rental buildings connected by covered walkways. Completed in 2009 by SEZ Construction.



TAMARACK RESORT HOME

Valley County, Idaho • 2008

A SIP and heavy-timber home in an area that can see 300 inches of snow. It came in on budget and ahead of



ADU + SMALL HOMES

Omaha, Nebraska

Accessory dwelling units framed with sPanels wall and roof panels, delivered in numbered bundles.

THE COMMON THREAD Project-specific coordination, factory preparation and an organized panel package, whether the building is a straightforward shop or a complex mountain home.

BACKED BY SPANELS

20 YEAR LIMITED WARRANTY

- **What is covered.** Defects in materials and workmanship, including delamination, for 20 years from final delivery to the original purchaser. Accessory materials supplied with your order are included.
- **How it works.** Report visible defects in writing within 14 days of delivery. We inspect and repair or replace affected panels at our expense.
- **What it takes.** Panels installed per the sPanels installation manual, and payment in full received.
- **Exclusions.** Improper installation, inadequate building design, misuse or unauthorized alterations, HVAC design problems, natural disasters and weather, and acts of terrorism.

Summary only. Full warranty terms are available on request.



WHAT COMES WITH YOUR PANELS

MORE THAN A PANEL PACKAGE.

- **Free estimate.** Send your plans and we price your panel package.
- **Drafting + engineering support.** Product specifications, structural capabilities, connections and fastening requirements.
- **Shop drawings of every panel.** Built from your construction documents and approved by you before fabrication.
- **Installation manual + training.** On-site training for you or your contractor to help begin installation.
- **Optional on-site technical help.** Support from people who know the panels when questions come up.
- **Delivery.** Across the continental U.S., Hawaii, Alaska and Canada.

50+ **Years of combined experience** on our team, and a proud member of the Structural Insulated Panel Association (SIPA).

GET A QUOTE

SEND THE RIGHT INFORMATION. GET A CLEARER START.

A complete plan set and a clearly defined SIP scope help us price the right work and spot coordination questions sooner.

1

CURRENT PLANS

Latest architectural and structural drawings.

WHY Establishes the geometry being priced.

2

SIP SCOPE

Walls, roof, or a defined portion of the building.

WHY Prevents scope assumptions.

3

STRUCTURE

Engineering, headers, beams and design loads, when available.

WHY Keeps pricing aligned with structure.

4

PROJECT LOCATION

City and state, and the jobsite address when known.

WHY Supports delivery and site planning.

5

SPECIAL CONDITIONS

Large openings, tall walls, timber framing or unusual roofs.

WHY Flags what needs extra coordination.

6

TARGET SCHEDULE

When drawings, production and delivery are needed.

WHY Lets us discuss realistic timing.

CONTACT SPANELS

(208) 552-1700

info@spanels.com

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2420 Heyrend Way, Idaho Falls, ID 83402

YOUR SPANELS CONTACT

Name

Direct phone and email

SPANELS
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BUILD SMARTER.
BUILD FASTER.



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