

OSB Structural Sheathing

DESCRIPTION

Huber Blue™ OSB sheathing panels are *engineered* to have exceptional performance characteristics of strength, stiffness and durability. Precisely cut wood strands are mixed with durable resin binders and oriented in a four-layer process in which two core layers are oriented perpendicular to two surface layers. The panel is then cured under intense heat and pressure to form an irreversible bond between the strands. Thickness for thickness, Huber Blue OSB sheathing panels can be used on the same spans as PS-2 commodity plywood.

BASIC USES

Huber Blue OSB sheathing panels are a high-quality alternative to PS-2 commodity plywood. They are used extensively in residential and commercial construction for roof and wall sheathing, as well as subflooring in two-layer systems.

COMPOSITION & MATERIALS

Huber Blue OSB sheathing panels are bonded with phenolic resin. Tests by U.S. Forest Products Laboratory and Oak Ridge National Laboratory have found formaldehyde emissions from panels bonded with phenolic resin to be nonexistent or negligible. The Federal Department of Housing and Urban Development (HUD) has exempted wood panel products bonded with phenolic adhesives from all formaldehyde testing requirements.

Great Things Are Forming Out Of The Blue

ADVANTAGES

25-year limited warranty
against delamination and
manufacturing defects.
Use in same applications as
PS-2 commodity plywood
No core voids or knotholes
Consistent quality, 100% useable
Stiffer and denser to lie flatter
Guaranteed not to delaminate
Will not warp, buckle, sag or cup
Edge sealed for moisture protection
Use standard woodworking tools
After-sale field service and support

GENERAL INFORMATION

PANEL SIZES:

4' X 8' up to 8' X 24'

THICKNESSES:

7/16", 15/32", 1/2", 5/8"

CUSTOM:

Specialty sanding and sizes are available on request. Inquiries will be handled on an individual basis.

CERTIFICATION & CODE COMPLIANCE

Huber Blue OSB sheathing panels are manufactured in conformance with PS2, Performance Standard for Wood-Based Structural-Use Panels. Huber Blue sheathing panels bear the stamp of TECO.

Panels may bear stamps certifying conformance to both PS2 and CAN/CSA-0325. CSA-0325 is a panel conformance standard maintained by the Canadian Standards Association.

Huber Blue OSB sheathing panels are certified to be in conformance with requirements for U.S.

Department of Housing and Urban Development (HUD/FHA) Use of Materials Bulletin #40C bear the designation of HUD-UM-40C within the stamp.

Huber Engineered Woods LLC is also approved to manufacture OSB by the Japanese Ministry of Agriculture, Forestry, and Fisheries (MAFF) in accordance with the Japanese Agricultural Standard (JAS) for Structural Panels.



FIRE RATING

Huber Blue OSB panels are recognized as having a Class C (III) flame spread rating without need for test or label by HUD/FHA Manual of Acceptance Practices, Section 405-8 to the Minimum Property Standards.

STORAGE

- Ship panels under tarp.
- Store panels to avoid excessive moisture.
- Set bundles on supports to keep off the ground.
- Outdoors, cover panels loosely with waterproof protective material.

 Avoid dropping panels on corners or edges.

• When using a forklift, put the

stack on a pallet or supports

to minimize damage from

Exposure 1 durability rating:

applications where ability to

Panels are intended for

protected construction

HANDLING

- Anchor covers on the top of the stack, but keep away from sides and bottom to assure good air circulation.
- Allow panels to acclimate to environmental conditions prior to installation.
- When high moisture exists, cut banding on the stack to prevent edge damage.

· Panel edges may swell if exposed to rain or standing water. This is a normal reaction for compressed wood products and will not affect structural integrity. Sand panels where necessary after panels are dry.

| resist moisture during normal |
|---------------------------------|
| construction delays is required |

INSTALLATION

forearms.

Cutouts for plumbing and electrical components should be oversized by at least 1/4" to avoid a forced fit.

Panels can be left natural, stained, varnished or painted. OSB is not recommended for exterior siding.

ROOF SHEATHING

Install Huber Blue OSB sheathing panels over two or more spans, staggered, with long dimension perpendicular to the roof framing. End joints must lie over supports. Screened surface should be installed up to maximize skid-resistance. All panel ends must be spaced 1/8" at time of installation. To assure proper edge spacing, H-clips are recommended for use with 7/16" roof sheathing.

Fasteners

- Use minimum 6d common nails for panels 1/2" or less.
- Use minimum 8d common nails for panels 5/8" to 1".
- Use 8d ring shank or 10d common nails for 1-1/8" panels.
- 7/16" crown 15 ga. staples with 1-1/2" legs may be used when roof construction does not need to meet diaphragm
- strength criteria complying with HUD/FHA UM 25d.
- Apply fasteners 3/8" from panels' edges.
- Space fasteners 6" o.c. along supported edges, 12" o.c. at intermediate supports. Ensure that all corners are securely fastened.
- For 48" o.c., all fastener spacing should be 6" o.c.

| | MAXIMUM ROOF SPANS AND LIVE LOADS | | | | | | | | | |
|-------------------------|-----------------------------------|-------------------------|----------------------------|----------------------------|-----|-----|------------------------------|----|-----|-----|
| Maximum Span (inches) | | | | Allowable Live Loads (PSF) | | | | | | |
| Panel Span Rating | Panel Thickness | With Edge Support | Without Edge Support | 12" | 16" | | ng of Su ter to Ce 24" | | 40" | 48" |
| 24/16 | 7/16" | 24" | 24" | 190 | 100 | 65 | 40 | | | |
| 32/16 | 15/32" or 1/2" | 32" | 28" | 225 | 180 | 120 | 70 | 30 | | |
| 40/20 | 5/8" | 40" | 32" | | 305 | 205 | 130 | 60 | 30 | |

- 1. The allowable spans were determined using a dead load of 10 psf. If dead load exceeds 10 psf, then the live load should be reduced accordingly
- 2. Tongue & groove edges, H-clips (one between each support except two between supports 48" o.c.), lumber blocking or other.

Warning: Huber OSB Sheathing may be extremely slippery when wet, covered with frost, ice, snow or when covered with sawdust. Installers of Huber OSB should wear rubber-soled footwear and exercise caution, especially on roof slopes exceeding 4 in 12 pitch.

WALL SHEATHING

Huber Blue sheathing panels may be installed parallel or perpendicular to framing members. If perpendicular, block horizontal joints in panels used as bracing. All panel ends and edges must be spaced 1/8" at time of installation. Cover with approved finished siding following manufacturer's recommendations.

| N | MAXIMUM SUPPORT SPACING | | | | | | | |
|---|-------------------------|-------------------------|---|---------------------------------------|--|--|--|--|
| | nel pan ting | Panel Thickness | Siding Nailed Thru Sheathing To Studs | Siding Nailed Thru To Sheathing | | | | |
| | /16 /16 | 7/16" 15/32" or 1/2" | 24" o.c. 24" o.c. | 24" o.c. 24" o.c. | | | | |

Fasteners: Use minimum 6d common nails, 7/16" crown 15 ga. staples with 1-1/2" legs may be used when sidewall construction does not need to meet diaphragm strength criteria complying with HUD/FHA UM 25d. Apply fasteners 3/8" from panel edges. Space fasteners 6" o.c. along supported edges, 12" o.c. at intermediate supports. Ensure that all corners are securely fastened. Note: Huber Blue OSB is not recommended for residential siding.

SUBFLOORS

When Huber Blue OSB sheathing panels are used in a two-layer floor system, a minimum 1/4" underlayment should be applied. Panels should be installed over two or more spans with the long dimension perpendicular to the supports. All panel edges and ends should be spaced 1/8" at time of installation. When installing lightweight concrete, ceramic tile or 3/4" wood strip flooring, follow the manufacturer's instructions for subfloor preparation.

Fasteners: Use minimum 6d common nails for panels 1/2" or less. Use minimum 8d common nails for panels 5/8" to 1". Apply fasteners 3/8" from

| MAXIMUM SUPPORT SPACING | | | | | | | |
|-------------------------|-----------------|--------------|--|--|--|--|--|
| Panel Span Rating | Panel Thickness | Maximum Span | | | | | |
| 24/16 | 7/16" | 16" o.c. | | | | | |
| 32/16 | 15/32" or 1/2" | 16" o.c. | | | | | |
| 40/20 | 5/8" | 20" o.c. | | | | | |

- Panels shall be covered with 1/4" or thicker underlayment. or 1-1/2" of approved cellular or lightweight concrete, gypsum concrete, or 3/4" wood strip finish flooring or edges shall be supported by blocking.
- 2. Panels may be used at the rated floor span, with a live load not to exceed 85 psf and a dead load not to exceed 25 psf.
- 3. Span may be 24" if covered by 3/4" wood strip flooring at right angles to joists.

panel edges. Space fasteners 6" o.c. along supported edges, 10" o.c. at intermediate supports. Ensure that all corners are securely fastened. For 48" o.c., all fastener spacing should be 6" o.c.

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