



# OSB Structural Flooring

## DESCRIPTION

Huber Blue™ OSB flooring panels are *engineered* to have specific 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 flooring panels can be used on the same spans as PS-2 commodity plywood.

## BASIC USES

Huber Blue OSB flooring panels are a high-quality alternative to PS-2 commodity plywood and are used for residential and commercial single-layer and subfloor applications.

## COMPOSITION & MATERIALS

Huber Blue engineered wood 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.

**Get Into  
The Groove**

### 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 4' X 16'
- THICKNESSES:**  
19/32", 23/32", 7/8", 1", 1-1/8"
- EDGE:**  
Tongue & groove or square edge  
(Net face width is 47-1/2" on tongue & groove panels)
- CUSTOM:**  
Specialty sanding and cut sizes are available on request. Inquiries will be handled on an individual basis.

## CERTIFICATION & CODE COMPLIANCE

Huber Blue OSB flooring panels are manufactured in conformance with PS2, Performance Standard for Wood-Based Structural-Use Panels. Huber Blue flooring 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 flooring 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.



\*Limitations and restrictions apply. See warranty terms and conditions for complete details.

## 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.
- 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.

## HANDLING

- Avoid dropping panels on corners or edges.
- When using a forklift, put the stack on a pallet or supports to minimize damage from forklifts.
- Exposure 1 durability rating: Panels are intended for protected construction applications where ability to resist moisture during normal construction delays is required.
- 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.

## INSTALLATION

### Spans & Spacing

Install panels over two or more spans with the long dimension perpendicular to the floor framing. Install panels with the certification stamp facing down for ease of viewing by local building inspection officials.

**Tongue & groove** panels are designed to self space on T&G edges. Space 4' panel ends a minimum of 1/8" at time of installation.

**Square edge** panels should be installed with a minimum spacing of 1/8" on all panel edges at time of installation.

*Note: Under extremely moist or humid conditions, slightly larger spacing may be required on all panel edges, not to exceed 1/4".*

### Fastening

- Glue and nails or glue and screws should be used to ensure greater floor stiffness.
- Gluing helps eliminate nail-popping and floor squeaks.
- Use only solvent-based glue which conforms to industry standards and follow manufacturer's recommendations.
- Fasteners should penetrate framing members at least 1".
- Apply fasteners 3/8" from panel edges.
- Space fasteners 6" o.c. on supported edges (4' ends) and 12" o.c. at intermediate support locations. Ensure that all corners are securely fastened.
- Use ring shank nails, screw shank nails or screws. 7/16" crown chisel point staples are approved, but not recommended.

*Note: 1 1/8" panels spaced 48" o.c. should be fastened 6" o.c. at intermediate support locations.*

### CUTOUTS

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

### FINISHING

**Carpet and pad:** May be installed directly over Huber Blue flooring.

**Vinyl:** A minimum 1/4" underlayment is recommended. Follow finished flooring manufacturer instructions.

**Hardwood floors:** The National Wood Floor Association (NWFA) and the National Oak Flooring Manufacturers Association (NOFMA) recognize the use of 23/32" OSB subfloor under hardwood flooring. For installation of the hardwood flooring, follow the recommendations of the manufacturer.

**Ceramic tile with cementitious backer board and lightweight concrete:** May be applied over Huber Blue flooring. Follow the application recommendations of the tile or concrete topping manufacturer.

SPAN RATINGS & RECOMMENDED LIVE LOADS									
FOR SUBFLOORS AND SINGLE-LAYER FLOORS									
Span Rating (inches)	Thickness (inches)	Max Span (inches)	Allowable Live Loads (psf)*						
			Joint Spacing (inches)						
			12	16	20	24	32	40	48
20" o.c.	19/32"	20"	270	150	100				
24" o.c.	23/32"	24"	430	240	160	100			
32" o.c.	7/8" & 1"	32"		430	295	185	100		
48" o.c.	1-1/8"	48"			460	290	160	100	55

\*10 psf dead load assumed, live load deflection limit is L/360.

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