

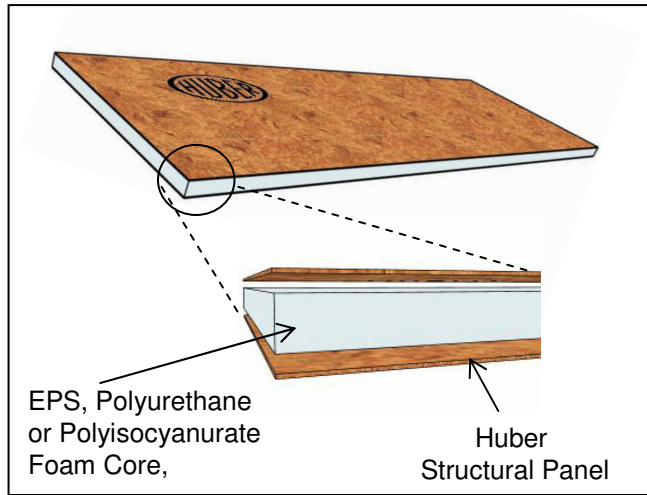
Huber Engineered Woods Panels

for Structural Insulated Panel Construction



DEFINING INNOVATION.

Huber Engineered Woods manufactures engineered wood panels specifically designed for Structural Insulated Panel (SIPs) construction. SIPs panels are energy efficient, high performance building panels used for roof, wall and floor construction. SIPs panels are typically manufactured using rigid expanded polystyrene (EPS) or Polyurethane or Polyisocyanurate foam insulation bonded between two OSB panel skins.



Huber *Custom* Capabilities

- World-class mill strategically located in OK
- Our **continuous** press provides widths (up to 102") and **custom** lengths (up to 288").
- Panels available with or without edge seal.
- Environmentally responsible panels are made using sustainable, fast-growing tree species from SFI Certified timberlands
- **Advanced** urethane resin technology system may include phenolic resin
 - Panels manufactured with phenolic resins have insignificant formaldehyde emissions

➤Source: U.S. Forest Products Laboratory and Oak Ridge National Laboratory

Exposure

- Classified as Exposure 1 under PS-2
- Resists moisture effects during construction delays or other conditions of similar severity
 - Not approved for use in exterior exposure or elevated levels of moisture for extended periods
- Backed by a 5-year limited warranty
- See technical bulletin for details



Photo is courtesy of Insulspan, Inc.



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Certification and Code Compliance

- Manufactured in conformance with PS-2
- Audited by TECO, an approved inspection and testing agency
- Members of SIPA
- Meets Industry Standards
 - International Residential Code
 - International Building Code
 - Certified Conformance for HUD-FHA
 - CSA-0325 Canadian standard

another innovation from



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**ENGINEERED
WOODS**

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Design Capacities^a

Span Rating	Panel Thickness (in.)	Strength Axis ^b	Bending Stiffness $F_b S$ (lb-in/ft)	Bending Strength EI (lb-in ² /ft)	Planar Shear $F_s (lb/Q)$ (lb/ft)	Axial Tension EA (lb/ft)	Axial Compression $F_c A$ (lb/ft)	Axial Stiffness EA (lb/ft)
24/16	7/16	Primary	385	78,000	150	2,600	3,250	3,800,000
		Secondary	115	16,000	150	1,300	2,500	2,900,000
32/16	15/32, 1/2	Primary	445	115,000	165	2,800	3,550	4,150,000
		Secondary	165	25,000	165	1,650	3,100	3,600,000
40/20	19/32, 5/8	Primary	750	225,000	205	2,900	4,200	5,000,000
		Secondary	270	56,000	205	2,100	4,000	4,500,000

a) Design capacities correspond with those published in the 2001 edition of the Allowable Stress Design (ASD) Manual for Engineered Wood Construction, Wood Panel Supplement, published by the AF&PA American Wood Council, Leesburg, VA. The appropriate panel grade and construction adjustment factor, C_G , has already been incorporated into these values and should not be applied a second time.

b) Unless otherwise specified, the primary strength direction corresponds to the long dimension of the panel and the secondary strength axis corresponds to the short dimension of the panel.

Section Properties

Nominal Thickness (in.)		Approximate Weight (psf)	Area A (in ² /ft)	Moment of Inertia I (in ⁴ /ft)	Section Modulus S (in ³ /ft)	Statical Moment Q (in ³ /ft)	Shear Constant Ib/Q (in ² /ft)
Fraction	Decimal						
7/16	0.437	1.4	5.250	0.084	0.383	0.287	3.50
15/32	0.469	1.5	5.625	0.103	0.440	0.330	3.75
1/2	0.500	1.7	6.000	0.125	0.500	0.375	4.00
19/32	0.594	2.0	7.125	0.209	0.705	0.529	4.75
5/8	0.625	2.1	7.500	0.244	0.781	0.586	5.00

Flame Spread Rating

Huber engineered wood 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.

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