

DRYWALL CLAD PANELS



Drywall Clad Panels are an energy efficient alternative to conventional framing, insulation, sheathing and other building systems. They are load-capable insulated panels used as walls, roofs, and floors in residential, commercial and institutional buildings. SIPs provide the exterior sheathing, insulation, structure, & interior base finish in one unit, and are available 4' wide and 8' wide in a broad range of thicknesses and lengths.

Components & Features:

Interior and Exterior Skins:

7/16" thick, HUD-PS2-grade, Exposure 1, Oriented Strand Board

Interior Finish:

1/2" thick plaster-base gypsum drywall, often called "blueboard"

Core Materials:

EPS: Expanded Polystyrene, 1.0 lb/cuft, 1 in. is R-3.8

XPS: Extruded Polystyrene, 1.6 lb/cuft, 1 in. is R-5.0

NEO: Neopor Polystyrene, 1.15 lb/cuft, 1 in. is R-4.7

PIR: Polyisocyanurate foam, 2.0 lb/cuft, 1 in. is R-5.7

Features:

- Reduces Heating and Cooling Costs
- Fast Installation Reduces Labor Costs
- Uses Renewable Wood
- Recycled / Recyclable Foam Insulation

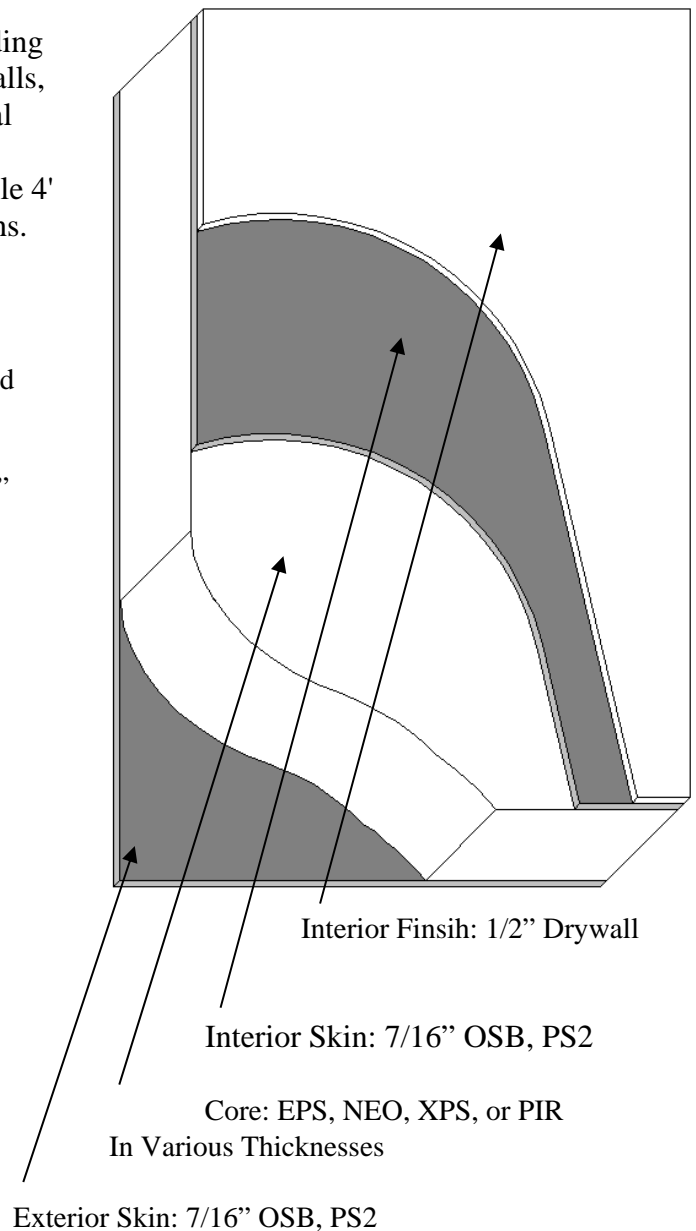
Availability:

- 3.0 through 25.0 inches thick
- 4ft by 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, & 24ft
- 8*ft by 8, 10, 12, 14, 16, 18, 20 & 24ft
- Optional pre-cut services
- Optional embedded nailers
- Optional FSC Certified Skins
- Optional wire chases
- Optional custom skins
- Optional Code Listing NTA FRD-031609-25 (EPS and NEO Only)

*Drywall only available in 4' widths and up to 16' lengths: 8ft wide panels will have drywall seams and drywall attached by screws not laminated

Manufacturing & Quality Control:

Foard Panel manufacturing meets ICC-ES AC-10. Independent review and approval of procedures and plant operations by registered, third party, ISO Guide 65/17065:2012 accredited inspection agency.



Exterior Skin: 7/16" OSB, PS2

Interior Skin: 7/16" OSB, PS2

Core: EPS, NEO, XPS, or PIR

In Various Thicknesses

Interior Finish: 1/2" Drywall

20 Year Limited Warranty:

Foard Panel Inc. warrants to the buyer that Foard Panels will not delaminate in normal use as the result of a defect in materials or manufacturing for 20 years from the date of purchase. See full warranty for details.

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SIP Properties at Standard Thicknesses

Overall Thickness (in)	3.38	5.00	7.00	8.75	10.75	11.00	12.75	13.38	15.50	16.50	
Core Thickness (in)	2.00	3.63	5.63	7.38	9.38	9.63	11.38	11.88	14.13	15.13	
EPS	R-Value @75°	9.2	15	23	30	38	39	45	48	56	60
	R-Value @40°	9.9	17	25	32	41	42	49	52	61	65
	Permeance (perm)	0.69	0.56	0.46	0.40	0.34	0.34	0.30	0.29	0.26	0.25
	Weight (lb/sqft)	5.2	5.3	5.5	5.6	5.8	5.8	5.9	6.0	6.2	6.3
	Size Availability 4ft Widths	4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, and 24ft									
	Size Availability 8ft Widths	8, 10, 12, 14, 16, 18, 20, and 24ft									
XPS	R-Value	11	20	30	38	48	-	58	-	-	-
	Permeance (perm)	0.49	0.35	0.26	0.21	0.17	-	0.15	-	-	-
	Weight (lb/sqft)	5.3	5.5	5.8	6.0	6.3	-	6.5	-	-	-
	Size Availability 4ft Widths	4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, and 24ft									
	Size Availability 8ft Widths	8, 10, 12, 14, 16, 18, 20, and 24ft									
NEO	R-Value @75°	10	19	28	36	46	47	55	58	68	73
	R-Value @40°	11	20	30	38	48	49	58	60	72	77
	Permeance (perm)	0.59	0.45	0.35	0.29	0.25	0.24	0.21	0.20	0.18	0.17
	Weight (lb/sqft)	5.3	5.5	5.8	6.1	6.4	6.4	6.7	6.8	7.1	7.3
	Size Availability 4ft Widths	4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, and 24ft									
	Size Availability 8ft Widths	8, 10, 12, 14, 16, 18, 20, and 24ft									
PIR	R-Value	13	23	35	45	56	-	68	-	-	-
	Permeance (perm)	0.33	0.21	0.15	0.12	0.10	-	0.08	-	-	-
	Weight (lb/sqft)	5.3	5.6	5.9	5.9	6.2	-	6.9	-	-	-
	Size Availability 4ft Widths	4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, and 24ft									
	Size Availability 8ft Widths	8, 10, 12, 14, 16, 18, 20, and 24ft									

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SIP Core Properties

		Test Method	EPS	NEO	XPS	PIR
General	Density (lb/cuft)	ASTM D1622 or C303	1.0 ⁵	1.15 ⁴	1.6	2.0
	Dimensional Stability (% Change)	ASTM D2126	2 ³	<1.5 ²	2	2
	Max. Custom SIP Thickness (in.)	-	25.00	25.00	12.25	12.25
Thermal	R-Value of 1 inch thickness (75 °F)	ASTM C518	3.8 ³	4.7 ⁴	5.0	5.7
	R-Value of 1 inch thickness (40 °F)	ASTM C518 or C578	4.2 ³	5.0 ⁴	5.4	-
	U-Value of 1 inch thickness (75 °F)	ASTM C518	0.26 ³	0.21	0.20	0.17
	U-Value of 1 inch thickness (40 °F)	ASTM C518 or C578	0.24 ³	0.20	0.19	-
Strength	Compressive 10% Deformation (lbs/sqin)	ASTM D1621 or C165	10	14	20	20
	Permeability (perm inches)	ASTM E96	5.0 ³	3.1 ⁴	1.5	<1.0
	Absorption (% volume)	ASTM C272	4.0 ³	1.1 ⁴	0.3	<1.0
	Max. Service Temperature (°F)	ASTM D3278	160	165 ⁵	190 ⁶	250
Fire Characteristics	Rating	-	Class I	Class I	Class I	Class I
	Smoke Developed	E84	125	25 ²	165	220 ⁷
	Flame Spread	E84	15	5 ²	5	50 ⁷
	Toxicity of Combustion Products	Same as wood or Cardboard				

¹ Hunter Panel. Accessed, 5/26/2013. http://www.hpanels.com/images/stories/pdfs/tech_bulls/Hunter_Recycled_Content.pdf

² Opcore G Thermal Insulation, NEO 5300plus from opcodirect.com/library accessed 8/24/2017

³ ASTM International Standards (2006). ICC. pp659-662. West Conshohocken, PA

⁴ BASF Technical Properties, January 18 2016.

⁵ BASF Safety Data Sheet: Styropor BF-222. Revised June 2007, Version 2.1.

⁶ Dow Material Safety Data Sheet: Styrofoam 4x48 Inch Panel Core 20 WN Extruded Polystyrene Foam Insulation. Issued January 2012.

⁷ Hunter Panel Technical Department, October 31, 2014.