



INNOVATIONS FOR LIVING™

# FOAMULAR® Extruded Polystyrene Insulation

## Property Comparison

### Insulating Sheathings Comparison Chart<sup>1</sup>

Products		Thermal Properties		Physical Properties				Product Characteristics				System Requirements		
		Thickness	R Value <sup>2</sup>	Water Absorption (Max % By Volume)	Water Vapor Permeance (Perms)	Compressive Resistance (PSI)	Performance Below Grade	Tongue & Groove Edge	Facing Material	Relative Handling Weight	Cutting	Corner Bracing Required	Interior Vapor Retarder Allowed	Venting Of Wall Cavity Required
Conventional	Plywood	½"	0.62	High	0.60-0.80	N/A	No	No	N/A	Medium	Saw	No	Yes	No
	Wood Fiber (Regular)	½"	0.6	7.0	20-50	N/A	No	No	N/A	Medium	Saw	Yes	Yes	No
	Gypsum Sheathing	½"	0.45	High	Permeable	N/A	No	Some	N/A	Heavy	Easy	Yes	Yes	No
	Oriented Stran Board	7/16"	0.5	High	0.60-0.80	N/A	No	No	N/A	Medium	Saw	No	Yes	No
	Laminated Fiber Bd. (Thermoply) <sup>®</sup>	1/8"	0.2	0.2	Permeable	N/A	No	No	Foil	Light	Easy	Yes	Yes	No
Polystyrene Foam	FOAMULAR Insulating Sheathing (OC)	1"	5.0	0.05	0.20	15	Excellent	Yes	Film	Light	Easy	Yes	Yes	No
		¾"	3.8	0.05	0.20	25	Excellent	Yes	Film	Light	Easy	Yes	Yes	No
		½"	3.0	0.05	0.20	25	Excellent	No	Film	Light	Easy	Yes	Yes	No
	FOAMULAR 250 (OC)	1"	5.0	0.1	1.1	25	Excellent	Yes	None	Light	Easy	Yes	Yes	No
	FOAMULAR 150 (OC)	1"	5.0	0.1	1.1	15	Excellent	Yes	None	Light	Easy	Yes	Yes	No
	STYROFOAM RS (Dow)	1"	5.0	0.1	0.15	15	Excellent	Yes	Film	Light	Easy	Yes	Yes	No
	STYROFOAM TG (Dow)	1"	5.0	0.1	1.0	25	Excellent	Yes	None	Light	Easy	Yes	Yes	No
Molded EPS	1"	3.8-4.2	2.5	2.0-3.5	13-25	Poor	No	None	Light	Easy	Yes	Yes	No	
Polyisocyanurate Foam	Foil-faced Isocyanurate Sheathings	1"	7.2	0.3	0.03	16	Poor	No	Foil	Light	Easy	Yes	Yes	Optional
	Examples: Tuff-R (Celotex)	¾"	4.5	0.3	0.03	16	Poor	No	Foil	Light	Easy	Yes	Yes	Optional
	Energy Shield (Atlas)	5/8"	5.4	0.3	0.03	16	Poor	No	Foil	Light	Easy	Yes	Yes	Optional
	Thermo Sheath (R-Max)	½"	3.6	0.3	0.03	16	Poor	No	Foil	Light	Easy	Yes	Yes	Optional
	Non Foil-faced Isocyanurate	1"	5.8	1.0	1.0	16	Poor	No	Non Foil	Light	Easy	Yes	Yes	Optional
	Examples: R-Matte (R-Max)	¾"	4.3	1.0	1.0	16	Poor	No	Non Foil	Light	Easy	Yes	Yes	Optional
	R-Board (Atlas)	5/8"	3.9	1.0	1.0	16	Poor	No	Non Foil	Light	Easy	Yes	Yes	Optional
		½"	2.9	1.0	1.0	16	Poor	No	Non Foil	Light	Easy	Yes	Yes	Optional

<sup>1</sup>Properties shown are for general comparison purposes only. Values will vary according to manufacturers' products and published data.

<sup>2</sup>R-values shown are from manufacturers' literature determined at 75°F., mean temperature.

The higher the R-value, the greater the insulating power. Ask your seller for the fact sheet on R-values.



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