



FOAMULAR® NGX®

EXTRUDED POLYSTYRENE (XPS) INSULATION

Competitive Products Comparison Sheet

U.S. Products Only

ASTM C578 TYPE	MINIMUM COMPRESSIVE STRENGTH (PSI)	OWENS CORNING® FOAMULAR® NGX®	DUPONT™ STYROFOAM™	KINGSPAN®	APPLICATION
General Purpose					
X	15	FOAMULAR® NGX® 150 Square Edge (SE) Tongue and Groove (TG) Scored Square Edge (SSE)	UTILITYFIT™ Square Edge (SE) Tongue and Groove (TG) Scoreboard		Multipurpose
IV	25	FOAMULAR® NGX® 250 Square Edge (SE) Tongue and Groove (TG) Scored Square Edge (SSE)	STYROFOAM™ Square Edge Tongue and Groove Scoreboard	GreenGuard® CM (Square Edge) SL (Ship Lap Edge) SB (Scoreboard)	Multipurpose
IV	25	FOAMULAR® NGX® INSUL-DRAIN®			Exterior foundation drainage and insulation with filter fabric
High Compressive Strength					
VI	40	FOAMULAR® NGX® 400	Highload 40	GreenGuard® GG40-LG	High-load applications
VII	60	FOAMULAR® NGX® 600	Highload 60	GreenGuard® GG60-LG	High-load applications
V	100	FOAMULAR® NGX® 1000	Highload 100		High-load applications
Sheathing					
X	15	FOAMULAR® NGX® Half Inch			Sheathing and residing
	15	FOAMULAR® NGX® Insulating Sheathing (IS)	Residential Sheathing (RS)	GreenGuard® SLX Sheathing 25 PSI	Residential sheathing with plastic film facers on both sides
Roofing					
IV	25	FOAMULAR® NGX® THERMAPINK® 25	DECKMATE™ Plus	GreenGuard® GG25-LG	Roofing new construction
VI	40	FOAMULAR® NGX® 404 (Channeled)	ROOFMATE™	GreenGuard® LG Drainage Channel 40 PSI	PRMA roofing
VI	40	FOAMULAR® NGX® 404 RB (Ribbed & Channeled)	ROOFMATE™ – Ribbed	GreenGuard® GG40-LG (Ribbed)	PRMA roofing, ribbed
VII	60	FOAMULAR® NGX® 604 (Channeled)	PLAZAMATE™	GreenGuard® LG Drainage Channel 60 PSI	Plaza deck and PRMA roofing
VII	60	FOAMULAR® NGX® 604 RB (Ribbed & Channeled)	ROOFMATE™ – Ribbed	GreenGuard® GG60-LG (Ribbed)	Plaza deck and PRMA roofing, ribbed
Cavity Wall					
IV	25	FOAMULAR® NGX® 150 or FOAMULAR® NGX® 250 Scored Square Edge (SSE)	CAVITYMATE™ Plus	GreenGuard® Type IV XPS Cavity Board	Cavity wall continuous insulation
Low Temperature					
IV	30	FOAMULAR® NGX® LT30 (Low Temperature)	FREEZERMATE™ 30		Cold storage
VI	40	FOAMULAR® NGX® LT40 (Low Temperature)	FREEZERMATE™ 40	GreenGuard® Type VI 40 PSI Insulation Board	Cold storage
Concrete Tilt Wall					
IV	25	FOAMULAR® NGX® Gridboard	PanelMate		Concrete sandwich wall insulation systems
FanFold Re-siding Products					
	10	FanFold	Dupont Protection Board III	GreenGuard® Q250, Q350, P1450, XP14, XP38	Residential residing
Engineered Applications					
		FOAMULAR® NGX® Fabrication Billets	STYROFOAM™ PIB (ITW)		Pipe insulation
		PinkCore® TT	PanelCore		Composite panel manufacturing
Infrastructure					
		FOAMULAR® NGX® EDGELOCK® 400, VI			Patented design that interlocks boards together to prevent separation and thermal breaks
		FOAMULAR® NGX® EDGELOCK® 600, VII			
		FOAMULAR® NGX® EDGELOCK® 1000, V			
Accessory Products					
		ProPink® One All Season Gun Foam Sealant	GREAT STUFF PRO™ GAPS & CRACKS		One Component Gun Foam Sealant as part of Owens Corning FOAMULAR® VE Air & Water Barrier System
		ProPink ComfortSeal® Sill Sealer	STYROFOAM™ Sill Seal	GreenGuard® Sill Sealer	Air sealing
		JointSealR®	WEATHERMATE™ Straight Flashing	GreenGuard® Seam Tape	Foam joint air/water sealing
		FlashSealR®	WEATHERMATE™ Straight Flashing	GreenGuard® Butyl Flashing	Window and door flashing
		Raft-R-mate®			Attic ventilation

Truck Loading Data For FOAMULAR® NGX® XPS Products

PRODUCT DIMENSIONS (IN)	SQUARE FEET PER PALLET	BOARD FEET PER PALLET	BUNDLES PER PALLET	PIECES PER BUNDLE	PIECES PER PALLET
¾ x 24 x 96 (Half unit)	1,920	1,536	4	30	120
¾ x 48 x 96 (Half unit)	1,920	1,536	2	30	60
1 x 24 x 96	3,072	3,072	8	24	192
1 x 24 x 96 (Half unit)	1,536	1,536	4	24	96
1 x 48 x 96 (Half unit)	1,536	1,536	4	12	48
1 x 48 x 96	3,072	3,072	8	12	96
1 x 48 x 108	3,456	3,456	8	12	96
1½ x 24 x 96	2,048	3,072	8	16	128
1½ x 48 x 96	2,048	3,072	8	8	64
2 x 24 x 96	1,536	3,072	8	12	96
2 x 24 x 96 (Half unit)	768	1,536	4	12	48
2 x 24 x 108	1,728	3,456	8	12	96
2 x 42 x 96	1,344	2,688	4	12	48
2 x 48 x 96	1,536	3,072	8	6	48
2½ x 24 x 96	1,152	2,880	8	9	72
2½ x 48 x 96	1,152	2,880	4	9	36
3 x 24 x 96	1,024	3,072	8	8	64
3 x 48 x 96	1,024	3,072	8	4	32
4 x 24 x 96	768	3,072	8	6	48
4 x 48 x 96	768	3,072	8	3	24

Truckload Conversions

Products that are 96" length: 12 pallets per truckload

Products that are 108" length: 10 pallets per truckload

Products that are 120" length: 8 pallets per truckload

R-Values For FOAMULAR® NGX® XPS Products

THICKNESS	THERMAL RESISTANCE, R-VALUE (180-DAY) MINIMUM HR·FT ² ·°F/BTU		
	@ 25°F	@ 40°F	@ 75°F
FOAMULAR® NGX® XPS Products			
½"*	3.3	3.2	3.0
¾"*	4.4	4.3	4.0
1"	5.6	5.4	5.0
1½"	8.4	8.1	7.5
2"	11.2	10.8	10.0
2½"	14.0	13.5	12.5
3"	16.8	16.2	15.0
4"	22.4	21.6	20.0

*R-value for FOAMULAR® NGX® IS

Note: R means the resistance to heat flow; the higher the value, the greater the insulation power. The insulation must be installed properly to get the marked R-value. Follow the manufacturer's instructions carefully. If a manufacturer's fact sheet is not provided with the material shipment, request this and review it carefully. R-values vary depending on many factors, including the mean temperature at which the test is conducted and the age of the sample at the time of testing. Because rigid foam plastic insulation products are not all aged in accordance with the same standards, it is useful to publish comparison R-value data. The R-values for FOAMULAR® NGX® XPS insulation are provided from testing at three mean temperatures, 25°F, 40°F and 75°F, and from two aging (conditioning) techniques, 180-day real time aged (as mandated by ASTM C578) and a method of accelerated aging sometimes called "Long-Term Thermal Resistance" (LTTR) per CAN/ULC S770. The R-value at 180-day real-time age and 75°F mean temperature is commonly used to compare products and is the value printed on the product. Product comparisons should be conducted using the same test methods and mean temperatures.

Product comparisons based off data found at <https://www.dupont.com/building/styrofoam.html> and <https://www.kingspan.com/us/en/business-groups/kingspan-insulation/greenguard>, November 2024.

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