High Performance Insulation
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NOFP Rigid Board Typical Physical Properties (EPS Core Material Only –not with foil)

Property	UNITS	ASTM Test						
ASTM Designation			Type XI	Type I	Type VIII	Type II	Type IX	NA
ASTM Density Range	pcf	C 303 or D 1622	0.70-0.85	0.90-1.10	1.15-1.35	1.35-1.65	1.80-2.20	2.70-3.30
Common Designation	pcf	C 303 or D 1622	0.70	1.00	1.25	1.50	2.00	3.00
Design Thermal Resistance Values per 1.0 inch	at 25°	C 177 or C 518	3.60	4.35	4.55	4.76	5.00	5.00
	at 40°	C 177 or C 518	3.43	4.17	4.25	4.55	4.76	4.85
	at 75°	C 177 or C 518	3.22	3.85	3.92	4.17	4.35	4.45
Thermal Resistance Values min per 1.0 inch thickness	at 25°	C 177 or C 518	3.45	4.20	4.40	4.60	4.80	4.90
	at 40°	C 177 or C 518	3.30	4.00	4.20	4.40	4.60	4.70
	at 75°	C 177 or C 518	3.10	3.60	3.80	4.00	4.20	4.30
Strength Properties								
Compressive Resistance								
10% Deformation	psi	D 1621	5.0	10.0	13.0	15.0	25.0	50.0
Flexural Strength	psi	C 203	10.0	25.0	30.0	35.0	50.0	90.0
Tensile	psi	C 1623	NA	16.0	17.0	18.0	23.0	NA
Moisture Resistance								
Water Vapor Permeance	perm/in	E 96	5.0	5.0	3.5	3.5	2.0	2.0
Water Absorption	volume	C 272	4.0	4.0	3.0	3.0	2.0	1.0
Dimensional Stability								
Change in dimensions	max %	D 696	2.0	2.0	2.0	2.0	2.0	2.0
Maximum Service Temp								
Long Term			167° F for all densities					
Intermittent			180° F for all densities					
Flame Spread								
Up to 6" thickness		E 84*	Less than 25 for all densities					
Smoke Development								
Up to 6" thickness		E 84*	Less than 450 for all densities					
Oxygen Index	volume %	D 2863	24 for all densities					

Description: A type 1 molded expanded polystyrene (EPS) rigid board thermal insulation faced on both sides with reflective foil.
Evaluation: Material conforms to NBC 1995, Article 9.25.2.2 and to CAN / ULC S701-01, Type 1.
Appropriate usage: This product shall be installed in accordance with local building codes.