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NOFP Rigid Board Typical Physical Properties (EPS Core Material Only - Not with foil)

Property	Units	ASTM Test	Type XI	Type I	Type VIII	Type II	Type IX
ASTM Designation			Type XI	Type I	Type VIII	Type II	Type IX
Astm Density Range Common Designation	pcf	C303 or D1622	0.70 - 0.85	0.90 - 1.10	1.15 - 1.35	1.35 - 1.65	1.80 - 2.20
	pcf	C303 or D1622	0.70	1.00	1.25	1.50	2.00
Design Thermal Resistance Values min per 1.0 inch thickness	at 25° F	C177 or C518	3.60	4.35	4.55	4.76	5.00
	at 40° F	C177 or C518	3.43	4.17	4.25	4.55	4.76
	at 75° F	C177 or C518	3.22	3.85	3.92	4.17	4.35
Thermal Resistance Values min per 1.0 inch thickness	at 25° F	C177 or C518	3.45	4.20	4.40	4.60	4.80
	at 40° F	C177 or C518	3.30	4.00	4.20	4.40	4.60
	at 75° F	C177 or C518	3.10	3.60	3.80	4.00	4.20
Strength Properties							
Compressive Resistance							
10% Deformation	psi	D1621	5.0	10.0	13.0	15.0	25.0
Flexural Strength	psi	C203	10.0	25.0	30.0	35.0	50.0
Tensile	psi	C1623	NA	16.0	17.0	18.0	23.0
Moisture Resistance							
Water Vapor Permeance	perm/in	E96	5.0	5.0	3.5	3.5	2.0
Water Absorption	volume	C272	4.0	4.0	3.0	3.0	2.0
Dimension Stability							
Change in dimensions	max %	D696	2.0	2.0	2.0	2.0	2.0
Maximum Service Temperature							
Long Term			167° F for all densities				
Intermittent			180° F for all densities				
Flame Spread							
Up to 6" thickness		E84	Less than 25 for all densities				
Smoke Development							
Up to 6" thickness		E84	Less than 450 for all densities				
Oxygen Index	volume %	D2863	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, to Can/ULC S701-01, Type 1. CCMC 13516-L

Appropriate usage: This product shall be installed in accordance with local building codes