

FINEX PANELS

Description :

Composite panels made with Portland cement reinforced with synthetic fibers and additives. The panels are highly durable and possess structural qualities. During the manufacturing process, layers are pressed together for greater stiffness and moisture resistance. The panels, which come in a non uniform natural cement-grey colour, are non-combustible and rot-proof, and do not require any additional protective treatment.

Dimensions :

¼" x 4' x 4'	6 mm x 1220 mm x 1220 mm – 39 lbs / sheet
¼" x 4' x 8'	6 mm x 1220 mm x 2440 mm – 77 lbs / sheet
½" x 4' x 8'	12 mm x 1220 mm x 2440 mm - 145 lbs / sheet
½" x 4' x 10'	12 mm x 1220 mm x 3050 mm - 180 lbs / sheet

Properties :

Density.....+ 1,500 kg/m³ (+ .054 / in³)

Manufacturing tolerance :

Length and width : ± 3 mm Thickness : ± 1.5 mm Squareness : -1 mm/m

Humidified deflection.....1/588 of span

Dimensional change (due to moisture)..... 0.15 %

Compression resistance (Head screw).....950 N

Flexural strength.....12mm (½ po.).... +15 Mpa (2,175 psi)

Minimal fastener pull resistance 12mm : + 4,000N (932 lb)

Thermal resistance R value :..... 6 mm 0,14 12 mm 0,29

Freeze-Thaw resistance (200 cycles).....No loss to mass

Impact resistance : ASTM D 1037.....Passed
ASTM A 118.9 (height: 475 mm(19 po)).. Passed

Air permeability..... ASTM E 283..... - 0.00051 l./s./m² @ 100 Pa

Thermal expansion...ASTM C 531.....1.2 x 10⁻⁵ mm/mm C
(6.7 x 10⁻⁶ po./po. F)

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Properties :

Noise Isolation Class (NIC) / Sound Transmission Class (STC):35

Surface burning characteristics :

ULC-S 102. M Surface burning resistance: - Flame spread.....0
 - Smoke developed.....0

ULC-S 632-M91: Heat screen certification.....Passed
 ULC-S 114 : Non-Combustibility.....Passed
 ULC-S 126 : Test for fire spread under roof deck assemblies.....Passed
 ULC-S 107.M : Test for Roof Covering.....Passed

MECHANICAL / PHYSICAL PROPERTIES	VALUE	TEST STANDARD
Modulus of Elasticity Longitudinal Transversal	1125 kg / cm ²	ASTM C 120
	915 kg / cm ²	
Modulus of Rupture (dry average) Longitudinal Transversal	130 kg / cm ²	ASTM C 1185
	90 kg / cm ²	
Coefficient of Thermal Conductivity (K)	0.258 W / m K	ASTM C 518
Ambient density (Nominal) 25°C	1650 kg / m ³	ASTM C 1185
Moisture Content 65% RH 20°C Normal	8 - 12%	ASTM C 1185
Moisture Movement Normal to saturation Normal to dry	1.7 mm / m	ASTM D 1037
	2.5 mm / m	
Water Vapor Permeance (6 mm – 1/4")	6.69 perms	ASTM E 96
Surface burning Flame Spread Smoke Developed	0	ASTM E 84
	0	
Water Absorption	< 30 %	ASTM C 1185

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