FINEX
THE FIBER CEMENT EXPERTS

MULTI-PURPOSE FIBER CEMENT PANELS

TECHNICAL DATA

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:

1/4" X 4' X 4'	6 mm X 1220 mm X 1220 mm	–	39 lb/sheet
1/4" X 4' X 8'	6 mm X 1220 mm X 2440 mm	–	77 lb/sheet
1/2" X 4' X 8'	12 mm X 1220 mm X 2440 mm	–	145 lb/sheet
1/2" X 4' X 10'	12 mm X 1220 mm X 3050 mm	–	180 lb/sheet

PHYSICAL PROPERTIES:

Density:	+ 1,500 kg/m^3 (+ 5.4 lb/in^3)
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:	12 mm (1/2") + 15 Mpa (2,175 psi)
Minimal fastener pull resistance:	12 mm : + 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") ..... Passed
Air permeability:	ASTM E 283 - 0.00051 l./s./m^2 @ 100 Pa
Thermal expansion:	ASTM C 531 1.2 x 10-5 mm/mm C (6.7 x 10-6 po./po. F)
Noise isolation class (NIC) / Sound transmission class (STC): 35	
Surface burning resistance:	ULC-S 102.M - Flame spread ..... 0 ULC-S 632-M91 - Heat screen certification ..... Passed ULC-S 114 - Incombustability ..... Passed ULC-S 126 - Test for fire spead under roof deck ..... Passed ULC-S 107.M - Test of roof covering ..... Passed

MECHANICAL / PHYSICAL PROPERTIES		VALUE	TEST STANDARD
Modulus of Elasticity	Longitudinal Transversal	1125 kg/cm^2 915 kg/cm^2	ASTM C 120
Modulus of Rupture (Dry Average)	Longitudinal Transversal	130 kg/cm^2 90 kg/cm^2	ASTM C 1185
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 2.5 mm/m	ASTM D 1037
Water Vapor Permeance (6 mm - 1/4")		6.69 perms	ASTM E 96
Surface Burning	Flame Spread Smoke Developed	0 0	ASTM E 84
Water Absorption		< 30%	ASTM C 1185

24 St-Louis, suite 130, Salaberry-de-Valleyfield, Quebec, Canada J6T 1M4
Tel.: 450-373-0909 / 1-877-923-4639 Fax: 450-377-0440 E-mail: info@gofinex.com www.gofinex.com

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