

Datasheet

Cemfort HD – Facade Panels

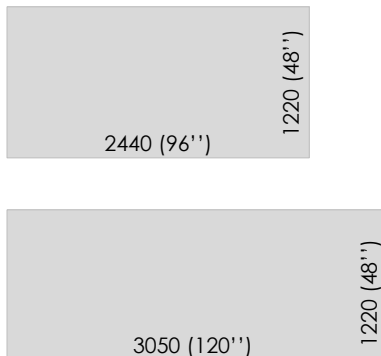
Description

Natural high-density composite concrete panel, made of Portland cement, activating additives and reinforced with synthetic fibers. Durable and of high-quality fabrication, the Cemfort HD panel is manufactured with concrete layers pressed together for optimal rigidity and cured by autoclave process. The panel is surface sanded to obtain a unique smooth surface, while keeping the feel and texture of natural concrete. Of uniform thickness, the panel is through colored. The panel is offered in various body through colors with natural low color variations and shadings or surface finished at manufacturer's facilities. Cemfort HD panel and systems are used as a ventilated façade solution for all types of building envelopes.

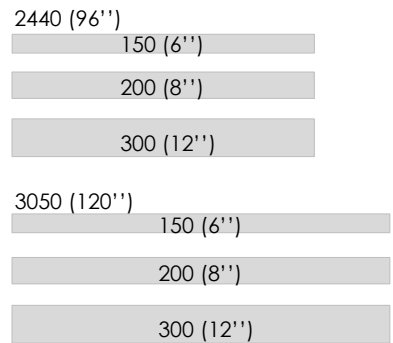
Dimensions		Panel Modules	Plank Modules
Thickness	mm (in)	12 (1/2'') - R.C GREY 10 (3/8'')	12 (1/2'') - R.C GREY 10 (3/8'')
Width	mm (in)	1220 (48'')	150 (6'') 200 (8'') 300 (12'')
Length	mm (in)	2440 (96'') 3050 (120'')	2440 (96'') 3050 (120'')

* 20 standard dimensions offered by Cemfort for Panel modules.

Panel Modules



Plank Modules



Physical Properties

		10mm (3/8")	12mm (1/2")
Density	Kg / m ³	± 1,550	± 1,550
Weight	Lbs / sq.ft.	3.2	4.4
Moisture content	%	Up to 10%	Up to 10%

Fabrication Tolerance

Width / length	mm (In)	± 3 (1/8")	± 3 (1/8")
Thickness	mm (In)	± 1.5 (1/16")	± 1.5 (1/16")
Squareness	mm / m	± 1.5 / m	± 1.5 / m

Other Properties

Standard specification for flat fibercement sheets	ASTM C1186	Passed	Passed
Compression Resistance	N	950	950
Flexural Strength	Mpa (Psi)	15 (2,175)	15 (2,175)
Min. fasteners pull resistance	N	4,000	4,000
Freeze / Thaw resistance	200 cycles	No loss of mass	No loss of mass
Humidified deflection		1/588 of span	1/588 of span
Dimensional change	Moisture	0.15%	0.15%
Thermal resistance	R value	0.23	0.29
Modulus of Elasticity (longitudinal) ASTM C120	Kg / cm ²	1125	1125
Modulus of Elasticity (Transversal) ASTM C120	Kg / cm ²	915	915
Modulus of Rupture (dry) Longitudinal ASTM C1185	Kg / cm ²	130	130
Modulus of Rupture (dry) Transversal ASTM C 1185	Kg / cm ²	90	90
Moisture Movement Normal to Saturation	mm / m	1.7	1.7
Moisture Movement Normal to dry	mm / m	2.5	2.5
Coefficient of Thermal Expansion	mm / m C	1.2 x 10 ⁻⁵	1.2 x 10 ⁻⁵
Thermal Conductivity	W/mK	0.24	0.26
Impact Resistance	ASTM D1037	Passed	Passed

Surface Burning Characteristics

Fire Resistance (Propagation)	ULC S102	0	0
Fire Resistance (Smoke Formation)	ULC S102	0	0
Incombustibility, Canada	ULC S114	Passed	Passed



Incombustibility, USA	ASTM E136	Passed	Passed
Exterior Wall Assembly standard	NFPA 285	Pending	Pending

www.cemforthd.com

Please visit our website for further information and contact details.

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