

CEMFORT

Architectural & Structural

Cement panel, prefab

For exterior and interior applications

Description:

Monolithic cement panel consisting of different type cements, carbon fibers, silica and admixtures. Flat sheets are formed under intense pressure, offering durability, structural properties and uniform thickness. The panel is of natural light grey colour, not uniform, limestone appearance.

Dimensions:

Thickness.....6mm (1/4in).....Weight 0.9 kg (2 lbs sq. f.)
.....*13mm (1/2in)Weight 1.7 kg (3.8 lbs sq. f.)

Widths.....1.2m (4 ft)
Lengths.....*2.4m (8 ft)
.....*3 m (10 ft)

Physical properties:

Density.....+ 1,500 kg/m³ (+ 5.4 lb / in³)

Manufacturing tolerance:

Length and width..... ± 3 mm
Thickness tolerance..... ±1.5mm
Squareness tolerance..... - 1mm
Humidified deflection..... 1/588 of span
Dimensional change (due to moisture)..... 0.15%
Compression resistance (Head screw)..... 950 N
Flexural strength...13mm (½ po.).... +15 Mpa (2,175 psi)
Minimal fastener pull resistance 13mm : + 4,000N (932 lb)
Freeze – Thaw resistance.....No loss of mass.

Impact resistance

ASTM D 1037.....Passed
ASTM A 118.9 (drop distance 475 mm (19 in)..Passed

Air permeability

ASTM E 283 -0.00051 l/s-m² @ 100 PA

Thermal expansion

ASTM C 532....1.2 x 10⁻⁵ mm/mm C
(6.7 x 10⁻⁶ in./in. F)

Surface burning characteristics

ULC-S 102 M : Flame spread.....0
Smoke developed.....0
ULC-S 114 :Passed
ULC-S 126 : (roof-deck assemblies).....Passed
ULC-S 107 M : (roof material).....Passed