

Prōtean™

The Form of Architectural Vision

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FM-100

Insulated Metal Panels



The FM-100 Series is a **barrier system** best used when high R-Value or noise deadening is required. Panels tested to R-Value = 14 (7 per inch of depth). Laminated foam panels are well suited for projects needing large panels with long, smooth expanses. The FM-100 is highly recommended when complex panel configurations, corner and openings make lower cost foam-in-place panels more costly to fabricate and install.

Materials of Construction

Face: 0.040" Aluminum (Coil Coated)
Liner: 0.040" Aluminum (Primer Coat)
Core: 2.0" Polyisocyanurate
Options:
22Ga Galvanized Steel, 20 Ga Stainless Steel, EPS Core
Face/liner thicknesses to 0.040" – 0.090", Core thickness 1" to 6"

Coatings and Colors

Standard: 2-coat Kynar 500 Finish
Options: Anodized (not recommended), brushed stainless, Mica, metallic, 3-coat, non-directional embossed, exotic colors.

Panel Sizes

Maximum Panel Width: 56" (based upon 2" core)
Optimal Widths: 20", 26", 44" and 56" (for lowest cost)
Maximum Length: 16'
Optimal Length: <16'

System Depth: 2.0"(Standard)

Markets

Civic Buildings, Educational Buildings, Government Buildings

Warranty: 1 Year Workmanship and 10 year finish

Installation

Utilizing standard installation details, FM-100 series panels are sequentially installed to the structure with mechanical fasteners and formed attachment legs. The minimum joint of ½" is sealed with backer rod and sealant compatible with the finish. We recommend use of hat girts and self-tapping screws; however, our panels can be fastened to flat strap furring or direct to 5/8" or heavier plywood.

With attachment tabs removed, the FM-100 can be **glazed in to curtain walls** in lieu of glass at spandrels, etc. Typical foamed-in-place insulated panels are not suited for glazed-in applications.

Panels Design Configurations

Rectangular or Square Flat Panels
Geometrically Shaped Panels
Bent Panels – Corner Panels, Copings
Multiple Bends – Fascia Panels
Curved or Radius Panels

Joints ½" Caulk Joint, Vertical & Horizontal

Panel Weights (Approximate)

1.233 #/SF (standard 0.040 Aluminum)
2.653 #/SF (22Ga Galvanized)
3.17 #/SF (20 Ga Stainless Steel)

Testing Information Available

Air Infiltration: ASTM E-283
Structural: ASTM E-330
Water Penetration: ASTM E-331
Weathering: ASTM D-2447
Thermal: ASTM C1363 (2" = R-14)