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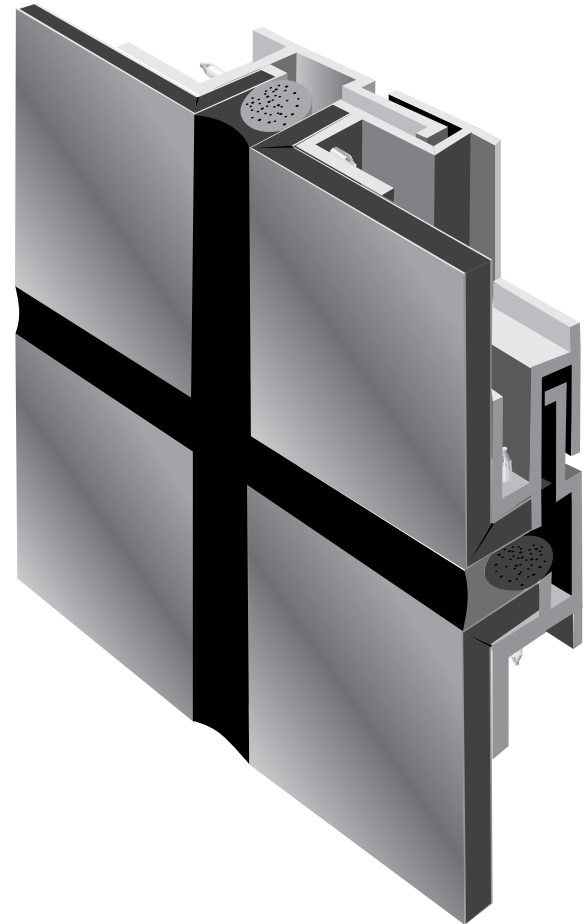
NOW-1100 System

Features and Benefits

The NOW-1100 Panel System is a high-performance architectural metal wall cladding. Custom-fabricated and engineered to match virtually any design, its combination of form and function make it the perfect choice for many applications. Capitalizing on the innate performance characteristics of ACM (Aluminum Composite Material), the NOW-1100 System delivers a sleek, flat look that manages thermal expansion and contraction, and virtually eliminates oil-canning. Proven, durable architectural coatings including Kynar®, as well as natural metals such as anodized aluminum and brushed aluminum ensure that the system will last the life of the building.

Description

The NOW-1100 System incorporates a route-and-return fabrication technique with interlocking aluminum extrusions, which are continuous throughout the perimeter of each panel. These extrusions allow the panel to expand and contract through thermal cycles without deformation of the material. The extrusions are also designed to reinforce the return leg of the composite material for a much stronger edge condition. Integral stiffeners are included on larger modules to strengthen the field of the panel. The horizontal and vertical joints are sealed with an open-cell backer rod and a properly-installed silicone sealant joint.



About the MCA Premium Fabricator Certification

The Metal Construction Association (MCA) is a nationwide trade organization through which members of the construction industry can develop programs that promote the integration of metal in design, and to ensure its proper use. The MCA's mission is "expanding the use of metal in construction through marketing, technology, and education."

The Premium MCM Certification is an important part of this mission, offering to the design community a single, reputable source for MCM fabricator selection. Fabricators certified as "Premium MCM" by the Metal Construction Association must demonstrate longstanding experience, exceptional quality, and a broad base of services. As of this publication date, only four other US-based fabricators qualify for this mark. NOW is proud to be a member of this select group.

Material Properties on back

System Properties

System Depth	1 ½"
Joint Width	½" (Nominal)
System Weight	1.62 lbs/ft ²
Aluminum Extrusion Alloy	6063 T6
Minimum Structural Substrate	16 ga Steel Studs
Fastener	#12-24 Self-Drilling
Joint Sealant	Dow Corning 795 or equal

Testing	Result
Air Infiltration @ 6.24psf	<0.01 cfm/ft ²
Water Resistance Test Pressure	15.00 psf
Uniform Load Deflection	± 40 psf
Uniform Load Structural	± 40 psf

Sheet Properties

Property	Value
Thickness	4mm (0.157 inches)
Weight	1.12 lb/Ft ²
Tensile Yield (PSI)	6180
Ult. Tensile (PSI)	6020
Elongation (%)	7.6
Tensile Modulus (PSI)	1.26 x 10 ⁶
Flatwise Tensile (PSI)	1820
Ult. Flexural (PSI)	14510
Flex. Modulus (PSI)	5.05 x 10 ⁶
Flatwise Compression (PSI)	2030
Coefficient of Exp. (in./in. x F)	1.15 x 10 ⁻⁵
Flatwise Shear (PSI)	920
Deflection Temp. (°F)	>500
Water Absorption	Nil
Thermal Conductance (BTU/hr. °F ft. ²) (U)	20.5
Thermal Resistance (hr. °F ft. ² /BTU) (R)	.049
Conductivity (BTU-in./hr. °F ft. ²)	3.21

(Values Assume 4mm Alpolic with a Polyethylene Core)



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