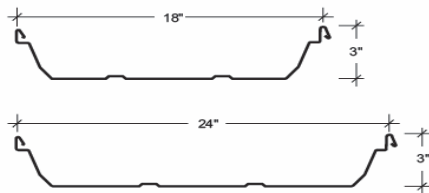
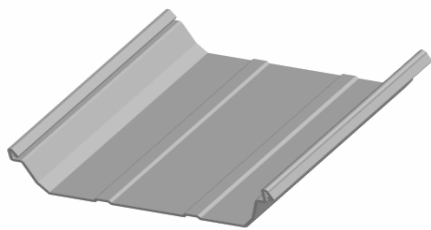


EM Ultra-Dek®



DESCRIPTION:

The EM Ultra-Dek® roof panel is a snap-together, trapezoidal leg standing seam roof system. EM Ultra-Dek® panels are available in 18-inch and 24-inch widths. EM Ultra-Dek® requires a minimum slope of ¼:12 and is ideal for industrial, commercial and architectural applications. EM Ultra-Dek® can be erected on various types of construction.



FEATURES AND BENEFITS

- Begins and ends in the high, reducing the risk of leakage at the rake that can occur when finishing in the low.
- Low and high clips are available to allow for various thicknesses of insulation to be installed between the panels and purlins.
- Numerous UL 580 Construction ratings are available, as well as UL 790, Class A for external fire, numerous roof assemblies for UL 263 for internal fire and the UL 2218 Class 4 impact rating.
- EM Ultra-Dek® carries Florida approval rating.

PRODUCT SPECIFICATIONS

- Applications: Roof
- Coverage Widths: 18" and 24"
- Minimum Slope: ¼:12
- Panel Attachment: Concealed Fastening System; Low, High (fixed or sliding)
- Gauges: 24 (standard); 22 (optional)
- Finishes: Smooth (standard); Embossed (optional)
- Coatings: Galvalume® Plus, Signature® 200, Signature® 300, Signature® 300 Metallic

CATEGORY	CHARACTERISTIC	TEST METHOD	PURPOSE	RESULT
ENVIRONMENTAL	Air Leakage Through Roof Panel Joints	ASTM E1680	Determines the air leakage characteristics of metal roof panels under specified air pressure differences at ambient conditions	0.251 cfm/ft ² at 6.24 psf static pressure 0.502 cfm/ft ² at 12.00 psf static pressure
	Water Penetration Through Roof Panel Joints	ASTM E1646	Determines the resistance to water penetration of metal roof panels under uniform static air pressure difference	No uncontrolled water penetration through the panel joints at a static pressure of 12.00 psf
	Impact Resistance	UL2218	Determines impact resistance of prepared roof covering materials	Class 4 Rating
FIRE RESISTANCE	Room Fire Performance	UL790	Standard for standard test methods for fire tests of roof coverings	See Class A Fire Rating Data Sheet*
	Room Fire Performance	UL 263	Standard for fire tests of building construction and materials	For use in Design Nos. P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P720, P722, P726, P731, P734, P801, P815, P819
STRUCTURAL	Uplift Resistance	ASTM E 1592	Provides a standard procedure to evaluate or confirm structural performance under uniform static air pressure difference	See Load Chart Section*
	Gravity Loads	AISI S100	North American Specification for the Design of Cold-Formed Steel Structural Members	See Section Properties and Allowable Load Table Section*
ROOF LISTINGS	Roof Performance Underwriters Laboratories	UL 580	Determines the uplift resistance of roof assemblies consisting of the roof and roof covering materials	Class 90 Rating-Construction Number 165, 180B, 205, 286, 308B, 534, 535, 536, 537, and 541
	Roof Performance Florida Approval	ASTM E 1592 FM 4471 UL 790	Florida product approval is the approval of products and systems, which comprise the building envelope and structural frame, for compliance with the structural requirements of the Florida Building Code	See FL #11819.5

*Additional data sheets and load charts available at www.exceptionalmetals.com.