



## Features & Benefits

- Fewer materials, components, trucks to site, installation steps, penetrations and trades saves time and reduces cost
- Insulated roof deck is a single component functioning as the deck, air and vapor barrier, insulation, and coverboard while providing a uniform walkable surface ideal for membrane installation
- Single point of accountability from the roof structure (decking, insulation, membrane and edge metal) out for weather tightness warranties and components
- Coil coated interior skin eliminates the need for field painting of the decking. Interior can be painted virtually any color



## Product Specifications

Profile	Exterior	Smooth Flat					
	Interior	Embossed, Lightly Planked, Mesa Rib					
Exterior Face Skin	26 Gauge G90 Galvanized or AZ50 Galvalume. 24 and 22 Gauge optional						
Interior Face Skin	26 Gauge G90 Galvanized or AZ50 Galvalume. 24 and 22 Gauge optional, 26 304 2B Stainless Steel*						
Slope Requirements	Minimum 1/4:12 Slope    Maximum 1:12 TPO, 2:12 PVC						
Panel Module**	40" [1016mm]						
Lengths**	Minimum: 8' [2.44m], Maximum: 50' [15.24m]						
Side Lap	Double Tongue and Groove						
GWP	Available Upon Request						
Core Type	InnovaCELL Technology						
Thermal Performance <sup>‡</sup>							
Thickness	2" [51mm]	2.5" [64mm]	3" [76mm]	4" [102mm]	5" [127mm]	6" [152mm]	8" [203mm]
R-Value @ 75°F mean (°F·ft²·h/BTU)	16	20	24	32	40	48	64
U-Value @ 75°F mean (BTU/°F·ft²·h) <sup>‡</sup>	0.068	0.054	0.046	0.035	0.029	0.025	0.019
R-Value @ 35°F mean (°F·ft²·h/BTU)	17	21.25	25.5	34	42.5	51	68
U-Value @ 35°F mean (BTU/°F·ft²·h) <sup>‡</sup>	0.063	0.050	0.042	0.032	0.026	0.022	0.016

\* For interior application only

\*\* Contact AWIP for Custom Sizes

† R-values as tested per ASTM C518

‡ U-values as tested per ASTM C1363

## Testing &amp; Approvals

Category	Test	Test Title	Results
Fire	FM 4882	Class 1 Interior Wall and Ceiling Materials or Systems for Smoke Sensitive Occupancies	Pending
	FM 4880	FM Class 1 Fire Rating	Pass
	ASTM E108	Roof Coverings Fire Test	Pass with Approved Assemblies
	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread Index: 25 or less Smoke Developed Index: 450 or less
	CAN/ULC S126	Fire Spread Under Roof	Pass
	CAN/ULC S138	Room Corner Test	Pass
Water Penetration	ASTM E1646	Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference	20 PSF
Air Infiltration	ASTM E1680	Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems	<0.02 cfm/ft <sup>2</sup> at 12 PSF
Structural	ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction	See Span Tables
	ASTM E1592	Structural Performance for Sheet Metal and Sidings Systems by Uniform Static Air Pressure Difference	See Span Tables
	FM 4470	FM Class 1 Single Ply Roof	Pass
	FM 4471	FM Class 1 Panel Roof	Pass
	AISI S907	Test Standard for Determining the Strength and Stiffness of Cold-Formed Steel Diaphragms	Available
Thermal	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus	Nominal R-value of 8.0 [hr-ft <sup>2</sup> ·°F/Btu] per inch at 75°F mean temperature and 8.5 [hr-ft <sup>2</sup> ·°F/Btu] per inch at 35°F mean temperature
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus	U-values are tested with 2", 4" and 8" thicknesses. U-values for other thicknesses are interpolated. See U-values in the table on page 1

OneDek (Diaphragm) - U.S. Patent: 11,299,889  
 OneDek (Diaphragm) - Canada Patent: 3,084,177



Additional Note: Consult your AWIP Technical Services Representative or RoofNav for FM Approved Assemblies



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