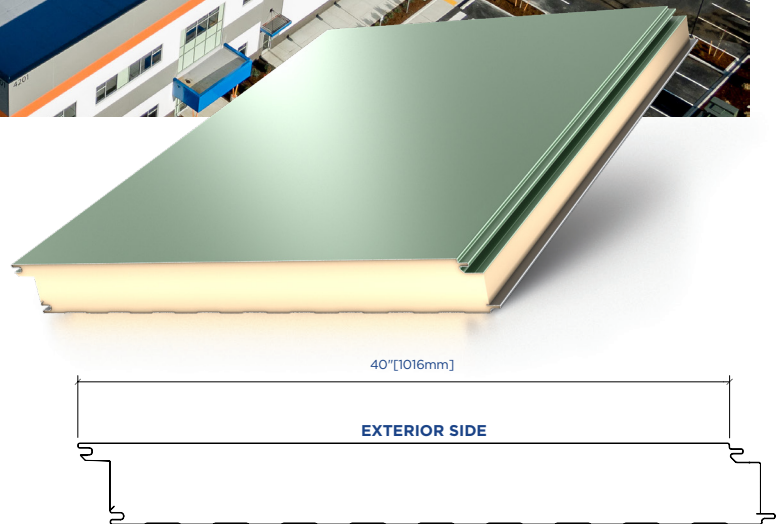




## Features & Benefits

- 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                                           | INTERIOR SIDE                                                                                          |                                     |           |            |            |            |            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------|-----------|------------|------------|------------|------------|
|                                                   | 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±                                              | 5.7 to 10.6 Lb CO <sub>2</sub> eq/ft <sup>2</sup> [27.6 to 51.9 kg CO <sub>2</sub> eq/m <sup>2</sup> ] |                                     |           |            |            |            |            |
| Core Type                                         | Polyisocyanurate/ PIR                                                                                  |                                     |           |            |            |            |            |
| 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·ft <sup>2</sup> ·h/BTU)   | 14.4                                                                                                   | 18.0                                | 21.6      | 28.8       | 36.0       | 43.2       | 57.6       |
| U-Value @ 75°F mean (BTU/°F·ft <sup>2</sup> ·h) ‡ | 0.102                                                                                                  | 0.088                               | 0.073     | 0.044      | 0.033      | 0.022      | 0.023      |
| R-Value @ 35°F mean (°F·ft <sup>2</sup> ·h/BTU)   | 16.4                                                                                                   | 20.5                                | 24.6      | 32.8       | 41.0       | 49.2       | 65.6       |
| U-Value @ 35°F mean (BTU/°F·ft <sup>2</sup> ·h) ‡ | 0.093                                                                                                  | 0.078                               | 0.064     | 0.034      | 0.027      | 0.020      | 0.018      |

\* For interior application only

\*\* Contact AWIP for Custom Sizes

† R-values as tested per ASTM C518

‡ U-values as tested per ASTM C1363

± Per EPD based on TRACI method from cradle to gate(A1-A3). Lower range based on 2" 26/26 gauge panel. Higher limit based on 6" 22/22 gauge panel. Not all profiles are available in these specific configurations, contact AWIP for more information.



**All Weather**  
Insulated Panels

## Testing &amp; Approvals

| Category          | Test         | Test Title                                                                                                                | Results                                                                                                                                                      |
|-------------------|--------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire              | 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<br>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/ft2 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 7.2 [hr·ft <sup>2</sup> ·°F/Btu] per inch at 75°F mean temperature and 8.2 [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", 6" and 8" thicknesses. U-values for other thicknesses are interpolated. See U-values in the table on page 1                 |
| Code Approval     | IAPMO        | International Building Code                                                                                               | Evaluation Report 529                                                                                                                                        |

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



Scan for the most current product information`

1 (888) 970-AWIP (2947)  
 awippanels.com  
 sales@awippanels.com



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