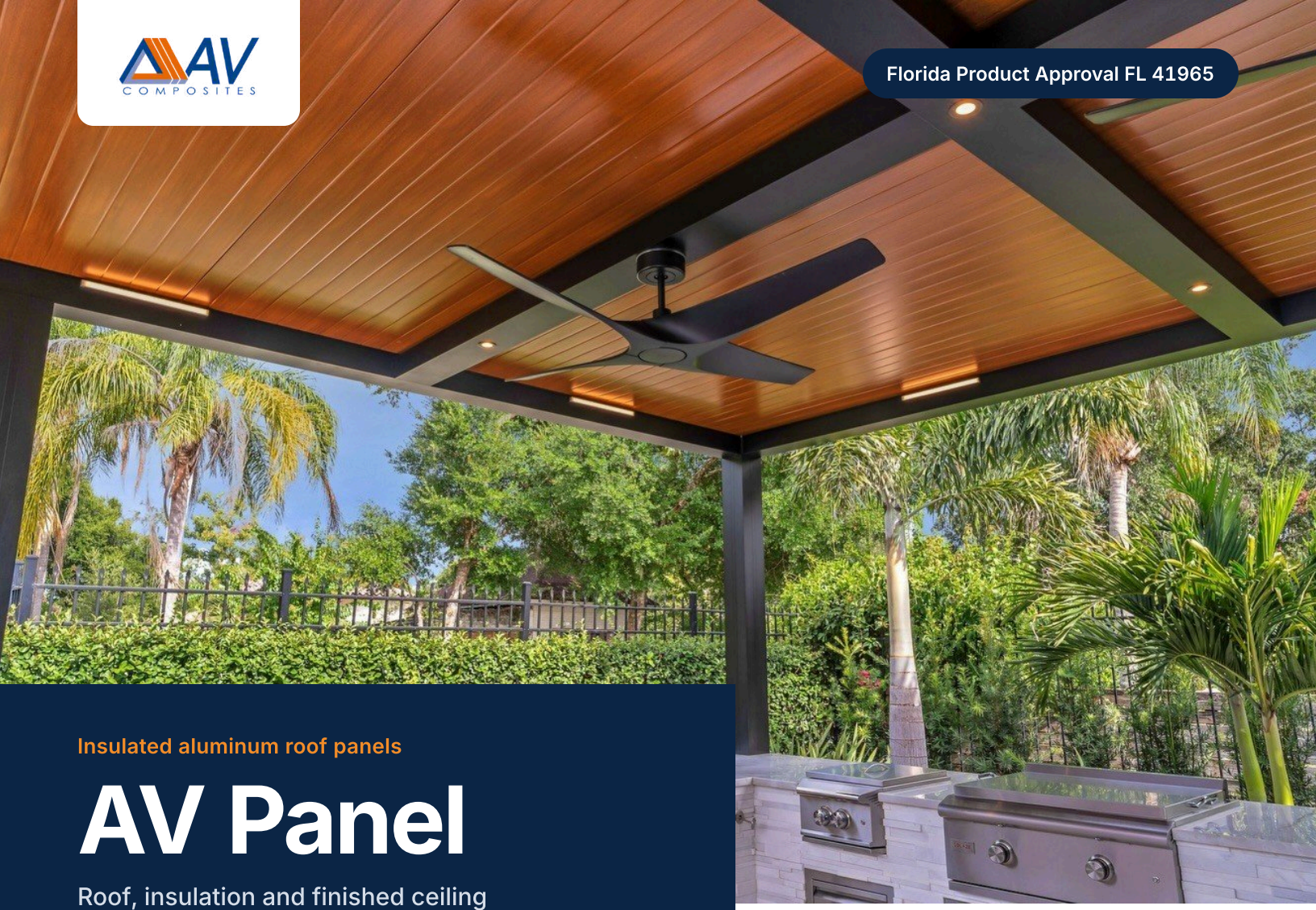


Florida Product Approval FL 41965

Insulated aluminum roof panels

# AV Panel

Roof, insulation and finished ceiling in a single panel.

Two .030 in aluminum skins bonded to a closed-cell XPS core. No rafters, no added insulation, no drywall: the underside is the finished ceiling.

**Built for** Pergolas · Patio covers · Carports · Outdoor kitchens · Sunrooms · Pool houses

| 24′ 8″ | R-30.9 | 3″ 4″ 6″ | 47″ |
|---|---|---|---|
| Max clear span | Core R-value, 6 in panel | Panel thicknesses | Coverage width |







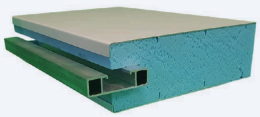

**XPS stays dry**

Ink injected into EPS soaks through. Our closed-cell XPS core keeps it out.

**avcompositesusa.com**
+1 (689) 269-7768 | export@avcomposites.com

2950 NE 188th St, #531
Miami, FL 33180

Authorized dealer



| | |
|---|---|
| **Skins** | .030 in 3005-H46 aluminum, coil coated |
| **Core** | Closed-cell XPS, 2 pcf, CFC-free |
| **Bond** | Two-component structural polyurethane adhesive |
| **Joint** | Aluminum junction key with built-in drainage channel |

## Panel data

| Thickness | 3″ | 4″ | 6″ |
|---|---|---|---|
| **Reference** | X76.2 | X101.6 | X152.4 |
| **Weight** | 1.33 lb/ft² | 1.69 lb/ft² | 1.94 lb/ft² |
| **R-value*** | **R-15.5** | **R-20.6** | **R-30.9** |
| **Width** | 47.2 in overall, 47 in coverage | | |
| **Lengths** | 8′ 2″ to 24′ 7″, in 9.84 in steps | | |
| **Ceiling profile** | Smooth, or V-groove at 3.39 in or 6.69 in | | |
| **Overhang** | Up to 24 in at front, 12 in at sides | | |
| **Minimum slope** | **2%, or ¼ in per ft** | | |

*Core R-value (h·ft²·°F/Btu), XPS λ 0.028 W/m·K per EN 12667.

## Allowable clear spans

Feet and inches, by total ASD gravity load and deflection limit, per the FL 41965 span evaluation.

| Deflection | L/80 | | | L/120 | | | L/180 | | |
|---|---|---|---|---|---|---|---|---|---|
| **Load, psf** | **3″** | **4″** | **6″** | **3″** | **4″** | **6″** | **3″** | **4″** | **6″** |
| **10** | 19′ 6″ | 24′ 8″ | 24′ 8″ | 18′ 8″ | 23′ 0″ | 24′ 8″ | 16′ 4″ | 20′ 1″ | 24′ 8″ |
| **20** | 17′ 0″ | 20′ 11″ | 24′ 8″ | 14′ 10″ | 18′ 3″ | 22′ 10″ | 12′ 11″ | 16′ 0″ | 20′ 0″ |
| **30** | 14′ 10″ | 18′ 3″ | 22′ 8″ | 12′ 11″ | 16′ 0″ | 20′ 0″ | 11′ 4″ | 13′ 11″ | 17′ 5″ |
| **40** | 13′ 6″ | 15′ 10″ | 19′ 7″ | 11′ 9″ | 14′ 6″ | 18′ 2″ | 10′ 3″ | 12′ 8″ | 15′ 10″ |
| **50** | 12′ 2″ | 14′ 2″ | 17′ 7″ | 10′ 11″ | 13′ 6″ | 16′ 10″ | 9′ 7″ | 11′ 9″ | 14′ 9″ |
| **60** | 11′ 1″ | 13′ 0″ | 16′ 0″ | 10′ 3″ | 12′ 8″ | 15′ 10″ | 9′ 0″ | 11′ 1″ | 13′ 10″ |

Site-specific design loads must be determined by a design professional per ASCE 7 and the governing building code.

## Ceiling finishes



**RAL 9010**
White



**RAL 9016**
White, matte



**RAL 7040**
Gray, matte



**Light Oak**
Wood grain



**Golden Oak**
Wood grain



**Light Oak**
Stripwood®



**Golden Oak**
Stripwood®

RAL 9010 in textured, matte or gloss. Exterior face: RAL 9010 textured or EPDM primer. Dark exterior colors not warranted.

## Slope and finish warranty




Install with a minimum slope of 2% (¼ in per ft) along the panel length, with AV Composites components only. Standing water wears the finish: the finish warranty excludes slopes below 2% and ponding water.

## Certified and tested

Florida Product Approval FL 41965. Structural tests per ASTM E72, E2322, E661 and C271 by American Test Lab of South Florida. Permitted Florida projects follow the FL 41965 drawings, including their minimum slope.

**avcompositesusa.com**
+1 (689) 269-7768 | export@avcomposites.com

© AV Composites 2026. Data offered in good faith.
Specifications subject to change without notice.