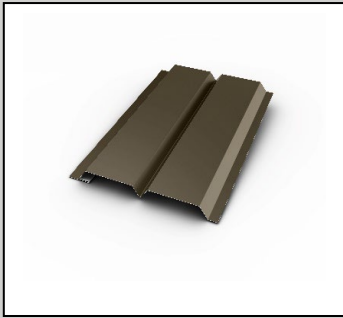


# Product Data Sheet



## DefendEX™ 1000V

### Metal Paneling

V-Groove Soffit Panel

### Description

DefendEX™ 1000V Soffit Panels (1000V) are factory-formed, interlocking, architectural metal panels designed for soffit applications. 1000V utilizes an interlocking leg and concealed fastening system.

1000V is offered with no-vent, or with full- or half-vent options to allow for airflow and under eave ventilation.

Standard color selections are listed in the current *EXCEPTIONAL Metals Color Chart*.

Custom color services are available upon request.

Material only warranty available.

### Method of Application

1. A smooth, solid substrate of plywood, OSB, or a substructure of minimum 22-gauge (0.79-mm), 7/8-in. (22.23-mm) hat channels is recommended for the 1000V.
2. 1000V panels must be installed in a sequential order.
3. Prior to panel installation, application of an approved underlayment is recommended.

### Storage

- DefendEX metal panels should be stored in a well-ventilated, dry location, where no moisture can contact them. Moisture (From rain, snow, condensation, etc.) trapped between layers of material may cause water stains or white rust, which can affect the service life of the material and will detract for the appearance.
- If outdoor storage cannot be avoided, protect the panels with a ventilated canvas or waterproof paper cover. Do not use plastic, which can cause condensation. Keep the material off the ground in an inclined position with an insulator such as wood.
- Storage of end-use materials with protective film applied to the surface should be:
  - Wrapped/packaged to prevent exposure to direct UV, water, oils, or other contaminants.
  - Stored in an enclosed building or holding facility.
  - Within a temperature range of 45° - 90° F (7° - 32° C) and 20 - 80% relative humidity.
  - Less than six months with masking applied (warehouse storage and outdoor exposure combined).
  - Protective film may become brittle with long-term UV exposure.

## Precautions

- Oil canning is not a cause for rejection. Heavier gauges, narrower widths, striations, and embossing minimize oil canning.
- Sealant for end laps and lap joints shall be non-drying, non-toxic, and non-shrinking with a serviceable temperature of -60° - 212° F (-51° - 100° C).
- Quality, long-life butyl sealants work best as a gasket sandwiched between two pieces of metal. Non-acetic cured, silicone, color-matching sealants are recommended when voids must be filled. Sealants are not a substitute for proper assembly and workmanship.
- Exercise caution when handling to avoid injury or product damage.
- Refer to Safety Data Sheets (SDS) for safety information, including PPE.
- **Immediately remove protective film after installation.**

Manufacturing Location: Anoka, MN



Product Data	
Property	Value
Panel Type	V-Groove Soffit
Panel Interlock	Interlocking Joint
Taper Panels	No
Radius Panels	No
Stiffening Ribs	No
Venting	Full-, Half-, & No-Vent
Sealant	No
Substrate	Solid Substrate or Hat Channels
Standard Panel Surface	Smooth
Optional Panel Surface	No

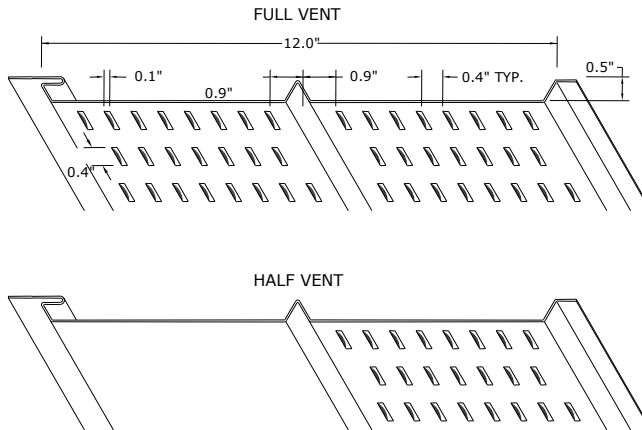
Product Size	
Property	Value
Panel Depth	0.50 in. (12.70 mm)
Panel Width	12 in. (304.80 mm)
Minimum Panel Length	22 in. (558.80 mm)
Maximum Panel Length	576 in. (14.63 m)

Technical Information	
Property	Value
Fire Rating	UL 263, UL 790, & UL Class A Rated Assemblies
Hail Impact Rating	UL 2218, Class 4

## Optional Venting Pattern

**Full venting:** 15.5 in<sup>2</sup>/ft (32,808.33 mm<sup>2</sup>/m) of net free area

**Half venting:** 7.75 in<sup>2</sup>/ft (16,404.17 mm<sup>2</sup>/m) of net free area



## Typical Properties

Material and Thickness	Metal Specification	Available Finishes
<u>Aluminum</u> 0.032 in. (0.81 mm) 0.040 in. (1.02 mm)	<b>Base Metal:</b> Aluminum <b>Minimum Yield:</b> 21 KSI (145 MPa) <b>Thermal Expansion:</b> 12.6 x 10 <sup>-6</sup> in/in/°F (22.68 x 10 <sup>-6</sup> mm/mm/°C) <b>Modulus of Elasticity:</b> 10.0 x 10 <sup>3</sup> x KSI (68.9 MPa)	Anodized Kynar 500®/Hylar 5000®

**NOTE:** Consult the appropriate base metal sheet and coil product data sheet for additional information on the base metal and coating. Not all materials and thicknesses are available from all locations.

Contact EXCEPTIONAL Metals Technical Services at (866) 337-4599 for further information.

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