

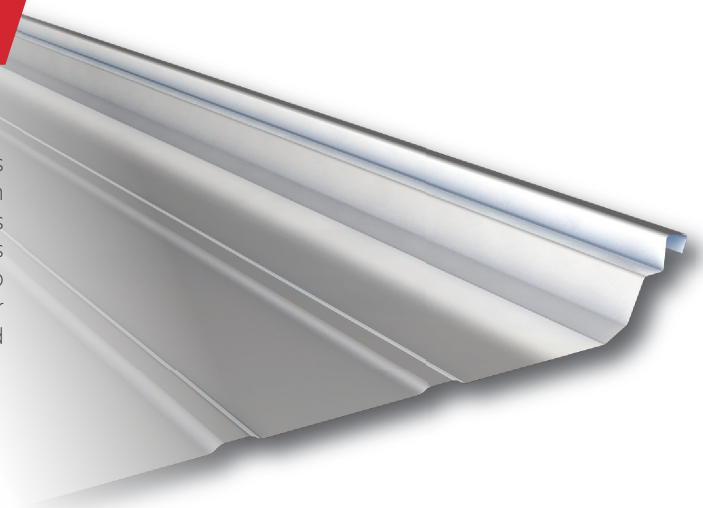
# MSC/STC PANELS

Specifications and Color Options

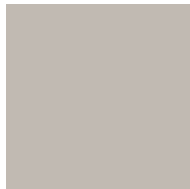
## Engineered for High Performance

Whether it's our "Snap Tight" or "Mechanically Seamed" roof panels, Builders can rest assured that Chief's panels are engineered with performance in mind. With 24" wide panel coverage, both the STC and the MSC panels provide the peace of mind that building owners expect and that Builders demand. The STC (Snap Tight Construction) roof panels feature a snap together standing seam and factory-applied hot melt mastic sealant for added weathertightness. This offers Builders quicker project completion and less construction and repair costs.

Chief's MSC (Mechanically Seamed Construction) roof panels are field seamed. Boasting even better uplift values, a UL90 wind resistance rating and available FMI compliant assemblies, this interlocking panel systems creates outstanding weathertightness and even more value.



Antique Bronze (AQ)



Ash Gray (AG)



Charcoal Gray (CG)



Cherokee (CK)



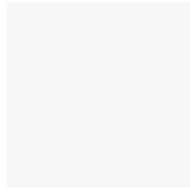
Emerald Green (EG)



Fieldstone (FS)



Parchment (PA)



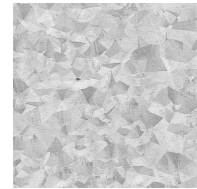
Polar White (PW)



Royale Blue (RB)



Sierra Madre (SM)



Galvalume® (GM)

\*All colors available in 24 ga. only. Galvalume® available in 24 ga. and 22 ga.

\*\*Chief maintains stock inventory of only select colors and Galvalume®. All other colors shown are available as Chief standard colors and may not be in stock.

## Polyvinylidene Fluoride (PVDF) Finish

Chief's finish is made with polyvinylidene fluoride resin, where a minimum of 70% of the resin is PVDF. This unique chemistry is combined with acrylic resin, as well as ceramic and select inorganic pigmentation. The result is a proven ability to resist ultraviolet radiation in sunlight for maximum protection against general weathering effects, chalking and fading.

## Acrylic Coated Galvalume® (GM)

Chief's exterior roof, wall and trim material is available in an industry standard ASTM A792 Acrylic Coated Galvalume® finish. Galvalume® is a unique coating of 55% aluminum and 45% zinc that resists corrosion. The Galvalume® sheet is coated with a thin, clear acrylic coating applied to both sides.

Since all color applications are affected by age, lighting conditions, heat, and mechanical coating processes, the color represented on this page may vary slightly in color or finish from the actual product. Oil canning in the flat areas of panels is inherent of coil steel products and shall not be a cause for product refusal.

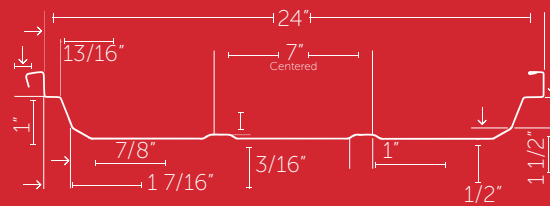
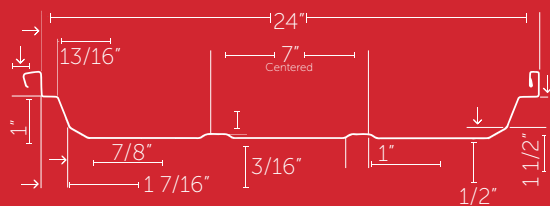


### Chief's Finish Warranties:

PVDF Roof Panel Finish Limited Warranty - 35 year | Galvalume® Panel Limited Warranty - 25 year



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Note: Dimensions are nominal.

## STC (Snap Tight Construction)

### Standing Seam Roof System

- Roll-formed profile shall be STC (Snap Tight Construction) as manufactured by Chief Buildings. Panels shall have an interlocking seam 3" deep spaced at 24" on center, with minor ribs between major ribs. Each panel shall provide a net coverage width of 24".
- High ribs shall be sealed with factory-applied hot melt mastic and shall not require field seaming.
- Panels shall be manufactured from 24 gauge or 22 gauge, 50,000 PSI material.
- The STC roof system shall have concealed clips. Clips shall be floating (sliding) to allow for thermal movement.
- Panels shall be one piece for slope lengths less than 52'. The panel endlap, if required, shall have tape sealer sandwiched between the top and bottom panel with a rigid metal backer plate.
- Roof panel assemblies shall have a UL Class 90 uplift rating in accordance with UL 580 "Tests for Uplift Resistance of Roof Assemblies".
- Roof panel assemblies shall have a UL Class A Fire Rating in accordance with UL 790 "Test Methods for Fire Tests of Roof Coverings".
- Roof panel assemblies shall have a UL Class 4 Impact Rating in accordance with UL 2218 "Impact Resistance of Prepared Roof Covering Material".
- Roof system must have been tested according to the procedures in ASTM E 1592 (structural performance by uniform static air pressure differential).
- Panels shall be reversible end for end and no field notching shall be required.
- Panel finish shall be acrylic coated Galvalume® AZ55 coating in accordance with ASTM A792.

#### OR

Substrate shall be Galvalume® AZ50 coating in accordance with ASTM A792. Sheets shall be coated with a fluoropolymer topcoat containing not less than 70% polyvinylidene fluoride (PVDF) over primer with total DFT of 0.8 – 1.0. The reverse side shall be coated with pigmented polyester. Exterior color to be selected from Chief standard color choices.

## MSC (Mechanically Seamed Construction)

### Standing Seam Roof System

- Roll-formed profile shall be MSC (Mechanically Seamed Construction) as manufactured by Chief Buildings. Panels shall have an interlocking seam 3" deep spaced at 24" on center, with minor ribs between major ribs. Each panel shall provide a net coverage width of 24".
- High ribs shall be sealed with factory-applied hot melt mastic. The side laps shall be field seamed using a mechanical seaming device provided by the manufacturer.
- Panels shall be manufactured from 24 gauge or 22 gauge, 50,000 PSI material.
- The MSC roof system shall have concealed clips. Clips shall be floating (sliding) to allow for thermal movement.
- Panels shall be one piece for slope lengths less than 52'. The panel endlap, if required, shall have tape sealer sandwiched between the top and bottom panel with a rigid metal backer plate.
- Roof panel assemblies shall have a UL Class 90 uplift rating in accordance with UL 580 "Tests for Uplift Resistance of Roof Assemblies".
- Roof panel assemblies shall have a UL Class A Fire Rating in accordance with UL 790 "Test Methods for Fire Tests of Roof Coverings".
- Roof panel assemblies shall have a UL Class 4 Impact Rating in accordance with UL 2218 "Impact Resistance of Prepared Roof Covering Material".
- Roof system must have been tested according to the procedures in ASTM E 1592 (structural performance by uniform static air pressure differential).
- Roof panel assemblies shall have permanent resistance to air leakage through assembly of not more than 0.008 cfm/sf of fixed roof area when tested according to ASTM E1680 at a static pressure differential of 6.25 psf.
- Roof panel assemblies shall have no water penetration as defined in the test method when tested according to ASTM E1646 at a static pressure differential of 12.0 psf.
- Panels shall be reversible end for end and no field notching shall be required.
- The roof system shall carry a Factory Mutual Class 1 rating (Optional. Only for projects required to meet Factory Mutual wind uplift design requirements).
- Panel finish shall be acrylic coated Galvalume® AZ55 coating in accordance with ASTM A792.

#### OR

Substrate shall be Galvalume® AZ50 coating in accordance with ASTM A792. Sheets shall be coated with a fluoropolymer topcoat containing not less than 70% polyvinylidene fluoride (PVDF) over primer with total DFT of 0.8 – 1.0. The reverse side shall be coated with pigmented polyester. Exterior color to be selected from Chief standard color choices.

Color	Initial SRI	Aged SRI
Antique Bronze	33	39
Ash Gray	53	52
Charcoal Gray	35	35
Cherokee	39	35
Emerald Green	30	29
Fieldstone	48	47
Parchment	73	70
Polar White	81	77
Royale Blue	29	29
Sierra Madre	63	60
Galvalume®	62	39

SRI is calculated in accordance to ASTM E 1980 with medium wind speed. The SHERWIN-WILLIAMS COMPANY certifies these tests to be true and accurate and performed by our laboratory. F- Cert Aged 2019-481Rc, Rev.05/16/2018. Galvalume® is a registered trademark of BIEC International, Inc.



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