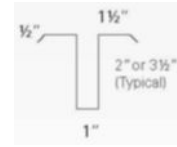


**ROOF HUGGER**



**TOP HAT**

Comparison Item	Roof Hugger	Top Hat
Time in Market	1991 – 2024 - 33 Years	2006 – 2024 18 Years
S.F. of Roof Hugger Retrofitted Roofs	Over 130 Million Sq. Ft – No failures	Unknown Sq. Ft. Roof Hugger has retrofitted 2 Top Hat Projects.
Yield Strength of Base Material	50 KSI Standard U.S. Material Only	33 KSI standard 50 KSI available upon request
Min. Thickness of 16 Gauge Base Material Finish Traceability	.060" Min. Thickness – G-90 Finish <b>All Parts are Marked and Traceable to Origin Coil Material.</b>	.0575" Min. Thickness G-60 Traceability Unknown
Custom Part Heights for Roof Tie-ins, Specific Insulation Requirements or Other Special Situations.	Any Heights from approx. 3/8" over Existing Rib Height or Parts up to 10" Tall. 3- Standard Size parts in inventory for immediate shipment	2½" and 3½" + Custom Heights
Custom (Top & Bottom) Flange Sizes / Lengths	Flange Sizes can be Specified 2" Top Flange & 1"-1.5" Bottom Typical. Part Lengths 10' – 12' Custom Lengths on Request	2-1½" flanges with 1" gap between flanges. Long lengths. Untested Copycat Roof Hugger Zee's available
Specifications, Details and Drawings - Online	PDF and Word fill in Project Specifications, AutoCad and PDF drawings - Downloadable	None
Preliminary Load Design for Project Bidding (Subject to Final Engineering)	Prelim design at No Charge for wind and snow loading. Additional purlin strengthening analysis also available upon request.	Design by purchaser. Engineering is available by others – no confirming test data as basis of design
Project Engineering	Available 2-3 Week Typical Turnaround. Design based on actual test data performance.	Available upon request. Calculated values no confirming test data.
Special Framing for Existing Tall Clip Standing Seam Roofs	Patented & Tested Systems for Existing Standing Seam Roofs Installed on Tall Clips from 1" – 1.50", Special Standoff Fasteners provided.	No Tested System No rotational control device.
Product Testing	E-1592, UL-580, FM 4470, AISI Base Testing, Diaphragm Testing. Thermal Testing, Multiple Screw-down and Standing Seam Panels	1- 2009 Simple Span AISI base test /No - ASTM E-1592 Performance Testing
Actual Purlin AISI Base Testing on both Simple and Continuous Span Purlin Framing to quantify actual strengthening added	Roof Hugger has Specifically Designed Engineering Software to Analyze Pre and Post-Retrofit purlin strength. Signed and Sealed Project Engineering is available.	1-AISI Test plus 1 industry non-conforming simple span load shingle stack load test – No ASTM Testing
Sub-framing at less than existing purlin spacing to meet Ridge, Edge, and Corner Zones Panel Attachment Requirements	Integral and Hat Channel Framing Provided, as needed, to meet Engineered Code Requirements for Attachment of New Screw-Down or Standing Seam Panels.	Available deflection limiter
Existing thru-fastened panel profiles	Standard "R", "PBR", "M", "D", "U", "C", "7.2", Corrugated, and most other Profiles are Available	Available
Existing SSR panel profiles	12" – 42" Standing Seam Profiles are Available	Available
Staff Experience -	Design-Build Metal Building Professionals, Licensed Class A Fl. Contractors, Engineering Graduate, 4 Full Time Design Estimators	One Person Staff
Florida Product Approvals	FL9552-R3, 9352.1,9352.2, 9352.3, 9352.4, 9253.5, and 17626.1	None
Inventoried Products for Immediate Shipment	1.83" Model C for 12" o.c. PBR, 4.50" Model D for 24" o.c. low clip Trapezoidal, 4.50" Model T for 24" o.c. Tall Clip Trapezoidal Panels.	Job to Job Fabrication

**ROOF HUGGER® ENERGY EFFICIENT RE-ROOFING TECHNOLOGIES**

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