

TECHNICAL DATA SHEET

AeroLock™ 150 Standing Seam

1-1/2" clip-fastened snap-lock standing seam for residential and light commercial roofing and wall applications

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1. Product Description

The AeroLock 150, manufactured by True Metal Supply, is a 1-1/2-inch snap-lock standing seam metal roofing system for residential and light commercial projects where a taller seam and a clean architectural roofline are wanted. Panels are held to the deck with concealed clips hidden under the seam, so there are no exposed fasteners and the panels are free to expand and contract with temperature. The female leg snaps over the male leg by hand, so no mechanical seamer is required.

This profile features a 16-inch net coverage (12 to 24 inches available) with a 1-1/2-inch seam height and requires a minimum 3:12 roof slope. Clip relief is rolled into the pan along both legs so clips sit flush and panels lie flat, and optional minor ribs or striations are available to reduce oil canning. AeroLock 150 is roll formed to length from American-made 24-gauge or 26-gauge steel, in Sherwin-Williams WeatherXL® SMP (including textured crinkle options), Fluoropon PVDF, and AZ55 Galvalume® Mill Finish.

2. Panel Profile & Dimensions

Attribute	Specification	Tolerance / Notes
Profile name	AeroLock™ 150	—
Net coverage width	16 inches (12-24 in. available)	± 1/8 in. typical
Overall width (incl. female leg)	16-1/4 inches	± 1/8 in. typical
Seam height	1-1/2 inches (1-17/32 in. at female leg)	± 1/32 in.
Standard gauge(s) offered	26ga, 24ga	see Section 4
Panel length	Cut to order — [Min: __ inches / Max: __ ft]	± 1/4 in. on length
Minimum roof slope	3:12	Per TMS installation guide
Coverage per panel	1.33 sq ft per linear foot (16 in.)	—
Coil (blank) width	20-3/8 inches for 16 in. coverage	Coverage + 4-3/8 in.
Attachment method	Concealed clip — install per TMS guide	—
Clip relief	Rolled into pan at both legs	Standard



3. Base Metal & Substrate

Property	Specification	Standard
Substrate — galvanized	Hot-dip zinc-coated (galvanized) carbon steel	ASTM A653
Substrate — Galvalume®	Aluminum-zinc alloy-coated steel (55% Al-Zn)	ASTM A792
Metallic coating designation	G90 (galvanized) or AZ50 (Galvalume)	ASTM A653 / A792
Prepainted coil	Coated steel sheet for exterior building products	ASTM A755
Steel grade / yield strength	Grade 50 (50 ksi / 345 MPa) min., typical	ASTM A653 / A1011
Country of origin	American-made steel	—
Recyclability	100% recyclable; contains recycled content	—

4. Gauge, Thickness & Weight

Gauge	Nominal base A792 steel thickness	Approx. installed weight (16 in.)
26 ga	0.0185 in. (0.469 mm) typ.	~1.0 lb / sq ft
24 ga	0.0230 in. (0.584 mm) typ.	~1.24 lb / sq ft

5. Finish & Coating System

Property	Specification	Test Method
Paint system	SMP, PVDF, Tru-Steel HD®	—
Coating supplier	Sherwin-Williams (SMP, PVDF), SDI (Tru-Steel HD®)	—
Nominal dry film thickness	~1.0 mil (25 µm) typ.	—
Gloss (60°)	SMP: 35-45% Textured SMP: 5-15% Standard PVDF: 25-35% Matte PVDF: 5-15%	ASTM D523
Pencil hardness	SMP: F-2H typical PVDF: HB-F	ASTM D3363

Property	Specification	Test Method
Adhesion (cross-hatch)	No coating loss	ASTM D3359
Flexibility (T-bend)	No cracking / loss of adhesion	ASTM D522
Reverse impact	No coating fracture	ASTM D2794
Specular / color retention	Backed by finish warranty — SMP: 7 ΔE. PVDF: 5 ΔE	ASTM D2244 / D4214

6. Performance Characteristics

Property	Specification	Test Method
Combustibility	Non-combustible (steel substrate)	—
Surface burning / flame spread	Class A — Flame Spread Index 0 (bare steel)	ASTM E84 / UL 723
Wind uplift	Class 90 — 24 ga min., 20 in. max. width, clips at 18 in. o.c. on 19/32 in. plywood deck (UL Construction No. 370) [confirm listing applies to AeroLock 150]	UL 580
Allowable uniform load (24 ga, 16 in., ASD, 3+ spans)	2.0 ft span: 136 psf 3.0 ft span: 60 psf 4.0 ft span: 33 psf 5.0 ft span: 21 psf	AISI (1996 + 1999 Supp.)
Section properties (24 ga, 16 in.)	I _x = 0.057 in ⁴ /panel (eff. 0.054) S _x = 0.042 in ³ /panel (eff. 0.038) F _y = 50 ksi (ASTM A792 Gr. 50)	AISI (1996 + 1999 Supp.)
Impact / hail resistance	[Not yet tested]	UL 2218
Salt-spray (corrosion) resistance	1,000 hr typ. for SMP	ASTM B117
Humidity resistance	No blistering / no field failure	ASTM D2247 / D4585
Solar reflectance / SRI	Varies per color, see color matrix on truemetalsupply.com/colors	ASTM E1980 / C1549
Service temperature range	Suitable for standard exterior climate exposure	—

7. Applicable Standards & Compliance

The following standards are referenced for the substrate, finish, and performance testing of this product. Confirm which apply to the specific configuration supplied and which carry third-party listings (e.g., UL, code evaluation reports).

Standard	Scope
ASTM A653	Steel sheet, zinc-coated (galvanized) by the hot-dip process

Standard	Scope
ASTM A792	Steel sheet, 55% aluminum-zinc alloy-coated (Galvalume®)
ASTM A755	Prepainted (organic-coated) steel sheet for exterior building products
ASTM E84	Surface burning characteristics of building materials
UL 580	Uplift resistance of roof assemblies
AISI S100	Cold-formed steel design — section properties and allowable load tables
ASTM B117	Operating salt-spray (fog) apparatus — corrosion testing
ASTM D3359 / D522 / D2794	Coating adhesion, flexibility, and impact resistance
Code compliance / ESR	Meets IRC Standards

8. Color & Finish Options

Standard colors: See color availability at truemetalsupply.com/colors

Color samples and physical chips are available on request. On-screen and printed color representations are approximate; specify from a physical sample for final selection.

9. Installation Guidelines (Summary)

This summary does not replace the full TMS installation manual. Install per the manufacturer's current published instructions and applicable building code.

- Install over solid decking (min. 19/32 in. APA-rated plywood or as specified) with a code-compliant underlayment.
- Fasten each clip to the deck with manufacturer-provided corrosion-resistant fasteners; clip spacing per TMS guide and project wind-load requirements (UL Class 90 construction: 18 in. o.c.).
- Engage the female leg over the male leg and press to snap; confirm full engagement along the entire panel length. No mechanical seaming required.
- Do not fasten through the panel face except at the designated fixed point; panels must be free to expand and contract on the clips.
- Flash and trim all terminations and penetrations using TMS-matched trim, closures, and accessories for a weather-tight, finished appearance.
- Avoid contact with dissimilar metals (e.g., copper, bare aluminum) and treated lumber to prevent galvanic corrosion.

10. Care & Maintenance

- Periodically rinse with clean water to remove dirt, pollen, and salt accumulation, especially in coastal or high-pollution areas.
- Clean stubborn marks with mild soap and a soft cloth or brush; rinse thoroughly. Avoid abrasive pads and harsh solvents. If stronger solvent is needed use only Watts Removal Products Cleansweep®.
- Inspect annually for damaged panels, loose fasteners, and compromised sealant; repair promptly to maintain the warranty.

11. Limited Warranty

Coverage	Term
Finish (paint) — fade / chalk	Varies by coating: 50-Years Paint Adhesions, 30-Years Chalk / Fade
Substrate — perforation by corrosion	50-Years

Full warranty terms, conditions, exclusions, and registration requirements are stated in the True Metal Supply Limited Warranty document, which governs in the event of any conflict with this data sheet.

12. Packaging, Handling & Storage

- Store panels in a dry, well-ventilated area, elevated off the ground and protected from standing water and condensation.
- If panels become wet, separate, wipe dry, and allow to air dry to prevent water staining of the finish.
- Handle on edge; carry long panels with adequate support to prevent kinking, bending, or oil-canning.
- Wear cut-resistant gloves; cut edges are sharp. Use shears or a fine-tooth blade — do not use abrasive cut-off wheels, which damage the coating and void the finish warranty.
- Standard packaging / bundle quantity: [__] panels per crate.

Disclaimer

The information in this Technical Data Sheet is provided in good faith and is believed to be accurate as of the issue date. Products are subject to normal manufacturing tolerances and to change without notice. Values stated are nominal unless a tolerance is given. Because installation conditions and applications are beyond the manufacturer's control, True Metal Supply makes no warranty, express or implied, other than its written Limited Warranty. Verify suitability for the intended use and compliance with all applicable building codes prior to installation.



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