

TECHNICAL DATA SHEET

TrueLap™ Steel Siding

Vertical board-and-batten profile steel siding for residential and light commercial exteriors

DOCUMENT	ISSUE DATE	REVISION
TMS-TDS-35-001	June 24, 2026	REV 1

1. Product Description

TrueLap™ is a concealed-fastener, horizontal steel lap siding panel engineered to deliver the clean shadow lines of traditional lap siding with the durability and low maintenance of formed steel. Each panel develops a 10" net coverage width and is broken by an intermediate step at the 5.00" point, producing a balanced two-course "double-board" reveal that reads as two lapped boards per panel while installing at a single course rate. The .692" face offset creates a defined shadow line at each lap, and the integral .735" hem/nailing leg conceals the fastener line beneath the next course for a clean, uninterrupted appearance.

Roll-formed from 50 KSI (Grade 50) 26-gauge steel over an AZ50 Galvalume® aluminum-zinc alloy-coated substrate, TrueLap™ combines high yield strength with the corrosion resistance of

Galvalume. Panels are finished in a Silicone-Modified Polyester (SMP) or PVDF (Kynar 500®/Hylar 5000®) coating system, offering a broad color palette with excellent fade and chalk resistance for long-term exterior performance.

TrueLap™ is suited for residential and light-commercial wall cladding, accent walls, gables, transitions, and re-side/retrofit applications where the look of wood or fiber-cement lap siding is desired without the maintenance, rot, or repainting cycles those materials require.

2. Panel Profile & Dimensions

Attribute	Specification	Tolerance / Notes
Profile name	TrueLap™ Steel Siding	—
Net coverage width	10 inches	± 1/8 in. typical
Overall (cover + batten)	11.5 inches	± 1/8 in. typical
Rib Height	0.692 inches	± 1/8 in. typical
Standard gauge(s) offered	26ga, 24ga	see Section 4
Panel length	Cut to order — [Min: 6 inches]	± 1/4 in. on length
Standard stock lengths	10 feet 2 inches	—

Attribute	Specification	Tolerance / Notes
Coverage per panel	8.47 Square Feet	—
Attachment method	Concealed / screw flange — install per TMS guide	—

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
26 ga	0.0185in. (0.469 mm) typ.	~0.94 lbs
24 ga	0.0230 in. (0.584 mm) typ.	~1.25 lbs
22 ga	0.0299 in. (0.759 mm) typ.	~1.56 lbs

5. Finish & Coating System

Property	Specification	Test Method
Paint / Coating system	SMP, PVDF, Tru-Steel HD®	—
Coating supplier	Sherwin-Williams (SMP, PVDF), SDI (Tru-Steel HD®) [Other suppliers are used for special orders]	—
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

Property	Specification	Test Method
	Tru-Steel HD®: 10-20%	
Pencil hardness	SMP: F-2H typical PVDF: HB-F Tru-Steel HD®: F min.	ASTM D3363
Adhesion (cross-hatch)	SMP, PVDF: No coating loss Tru-Steel HD®: 5B (No peeling)	ASTM D3359
Flexibility (T-bend)	No cracking / loss of adhesion	ASTM D522
Reverse impact / Coating Deformation	No coating fracture, no peeling	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 / structural load	+2154 Pa (+45.55 psf) +3231 Pa (+67.50 psf) -2010 Pa (-42.00 psf) -3016 Pa (-63.00 psf) +4847 Pa (+101.25 psf) -4524 Pa (-94.50 psf)	AAMA 1402-09
Impact / hail resistance	Class 4	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
ASTM E330	Structural performance of exterior wall systems under wind load
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 an approved, flat, structurally sound substrate with a code-compliant water-resistive barrier.
- Fasten with manufacturer provided corrosion-resistant fasteners into solid framing or furring.
- Allow for thermal movement; do not over-drive fasteners. Panels must be free to expand and contract.
- Maintain proper clearances at grade, rooflines, openings, and dissimilar materials; flash and trim all terminations and penetrations.
- Use 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: 145 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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and Siding

888-455-8783 / info@truemetalsupply.com / truemetalsupply.com
1745 Louisville Drive, Knoxville, TN 37921