

TECHNICAL DATA SHEET

Inspire™ Steel Siding

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

DOCUMENT	ISSUE DATE	REVISION
TEC-001	September 23, 2026	REV 4

1. Product Description

True Metal Supply Inspire Steel Siding is a roll-formed steel panel engineered for long-service residential and light commercial exteriors, accent walls, gables, and full-wall applications. Built on a durable, American-made steel substrate, it holds its finish and form for decades without the rot, warping, splitting, or repainting of wood or fiber-cement. Inspire is a 6" plank-style profile with a 1/2" reveal at the interlock, producing a clean, linear shadow line. Its concealed interlock lets it install either vertically or horizontally, and the same panel works as exterior siding, ceiling liner, or soffit — one profile across multiple applications. A vented (louvered) configuration is available for soffit intake ventilation — see Section 7. Panels are factory-finished in a baked-on coating system and are non-combustible, insect-proof, and fully recyclable at end of life. Profile classification: 6" plank, 1/2" interlock reveal Substrate: pre-painted hot-dip galvanized or Galvalume® steel.

2. Panel Profile & Dimensions

Attribute	Specification	Tolerance / Notes
Profile name	Inspire™ Steel Siding	—
Net coverage width	6 inches	± 1/8 in. typical
Overall (cover + batten)	7.5 inches	± 1/8 in. typical
Rib Height	0.50 inches	± 1/8 in. typical
Standard gauge(s) offered	26ga, 24ga	see Section 4
Panel length	Cut to order — [Min: 24 inches]	± 1/4 in. on length
Standard stock lengths	10 feet 2 inches	—
Coverage per panel	5.0834 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

Property	Specification	Standard
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% Tru-Steel HD®: 10-20%	ASTM D523
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.	ASTM D2244 / D4214

Property	Specification	Test Method
	PVDF: 5 ΔE	

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	<p>Tested static pressures — no failure, no visible damage, no fastener pullout:</p> <p>+2154 Pa (+45.00 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)</p> <p><i>Tested assembly: 26 ga Inspire™6 S-Loc over 5/8" plywood on 2x6 studs @ 16" o.c.; #10 × 1-1/8" flat head screws @ 7" o.c. through male leg (every other slot).</i></p> <p><i>24 ga: Not separately tested. Values above are for 26 ga as tested; 24 ga is heavier-gauge steel of the same profile and attachment. Contact True Metal Supply for 24 ga project-specific requirements.</i></p>	<p>AAMA 1402-09 §3.2.1 TAS 202-94 (FBC 2023) Intertek Report T6869.02-550-31</p>
Impact resistance (AAMA)	44 in-lbf — no rupture (5 of 5 readings)	<p>AAMA 1402-09 §3.2.2 Intertek Report T6869.02-550-31</p>
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. Ventilated Soffit (Vented Inspire™)

Inspire is available in a vented configuration for soffit applications, providing intake ventilation for vented attics and rafter spaces per IRC R806 and IBC 1202. Vented Inspire uses the same 6" profile, substrate, coating systems, and screw-flange attachment as standard Inspire, with lanced louver perforations formed in the flat face of the plank. Vented and solid Inspire can be run together for a matching soffit and ceiling appearance.

Property	Specification	Notes / Basis
Configuration	Vented Inspire — louvered (lanced) 6" plank for soffit	Profile per Section 2

Property	Specification	Notes / Basis
Louver opening	0.0625 in. (1/16") × 0.40 in., open both sides	Min. 1/16" opening per IRC R806.1
Perforation pattern	8 rows of louvers (2 banks × 4 rows), 14 louvers per row per lineal foot; 112 louvers per lineal foot	Perforations kept clear of screw flange and interlock
Net free area (NFA) — per lineal ft of panel	5.60 sq. in.	Calculated geometric open area
Net free area (NFA) — per sq. ft of soffit	11.2 sq. in. (0.078 sq. ft)	Based on 6" net coverage
Insect screening	Not required — openings ≤ 1/4 in.	IRC R806.1
Gauges / finishes	26ga, 24ga; same coating systems and colors as standard Inspire	See Sections 4 and 5

NFA per Lineal Foot of Eave

Soffit depth (projection)	NFA per lineal ft of eave (sq. in.)	NFA per lineal ft of eave (sq. ft)
12"	11.2	0.078
16"	14.9	0.104
18"	16.8	0.117
24"	22.4	0.156

Soffit Sizing Guide

Required vented soffit area (sq. ft) = [Attic floor area (sq. ft) × 144 ÷ ventilation ratio (150 or 300) × intake fraction] ÷ 11.2. Table assumes a balanced system with 50% of the required NFA provided at the eave (intake) and 50% at the ridge or upper portion (exhaust). Values rounded up to the next whole square foot.

Attic floor area (sq. ft)	Intake NFA @ 1/300 (sq. in.)	Vented Inspire @ 1/300 (sq. ft)	Intake NFA @ 1/150 (sq. in.)	Vented Inspire @ 1/150 (sq. ft)
1,000	240	22	480	43
1,500	360	33	720	65
2,000	480	43	960	86
2,500	600	54	1,200	108
3,000	720	65	1,440	129

Ventilation Notes

- NFA values are calculated geometric open area of the louver openings. Actual airflow may be lower than geometric area; where tested NFA is required by the code official, contact True Metal Supply.
- The 1/150 ratio is the IRC R806.2 baseline. The 1/300 ratio may be used only where the R806.2 exception is met: 40–50% of the required vent area located in the upper portion of the attic (not

more than 3 ft below the ridge), with the balance at the eave; or, in Climate Zones 6–8, a Class I or II vapor retarder on the warm-in-winter side of the ceiling.

- Install vented Inspire only where the soffit is open to the attic or rafter space. Do not install over solid sheathing, blocking, or backing that closes off the louvers.
- Maintain a minimum 1 in. air space between insulation and roof sheathing at the eave (IRC R806.3); use insulation baffles / vent chutes so insulation does not block intake air.
- Where vented and solid Inspire are combined, count NFA only for the vented panel area.
- Wind / structural load values in Section 6 (Intertek Report T6869.02-550-31) were tested on non-perforated Inspire siding and do not apply to vented Inspire used as soffit. Contact True Metal Supply for soffit wind-load data before specifying in high-wind or Florida Building Code jurisdictions.
- Attic ventilation design is the responsibility of the building designer. Verify all requirements with the local building code and authority having jurisdiction.

8. 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
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
AAMA 1402-09	Siding, soffit and fascia — wind load resistance (§3.2.1) and impact resistance (§3.2.2); Intertek Report T6869.02-550-31
TAS 202-94	Uniform static air pressure testing of building envelope components, structural (Florida Building Code); Intertek Report T6869.02-550-31
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
IRC R806 / IBC 1202	Roof and attic ventilation — net free area and vent opening requirements (vented Inspire soffit)

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

true
METAL SUPPLY | Metal Roofing
and Siding

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