

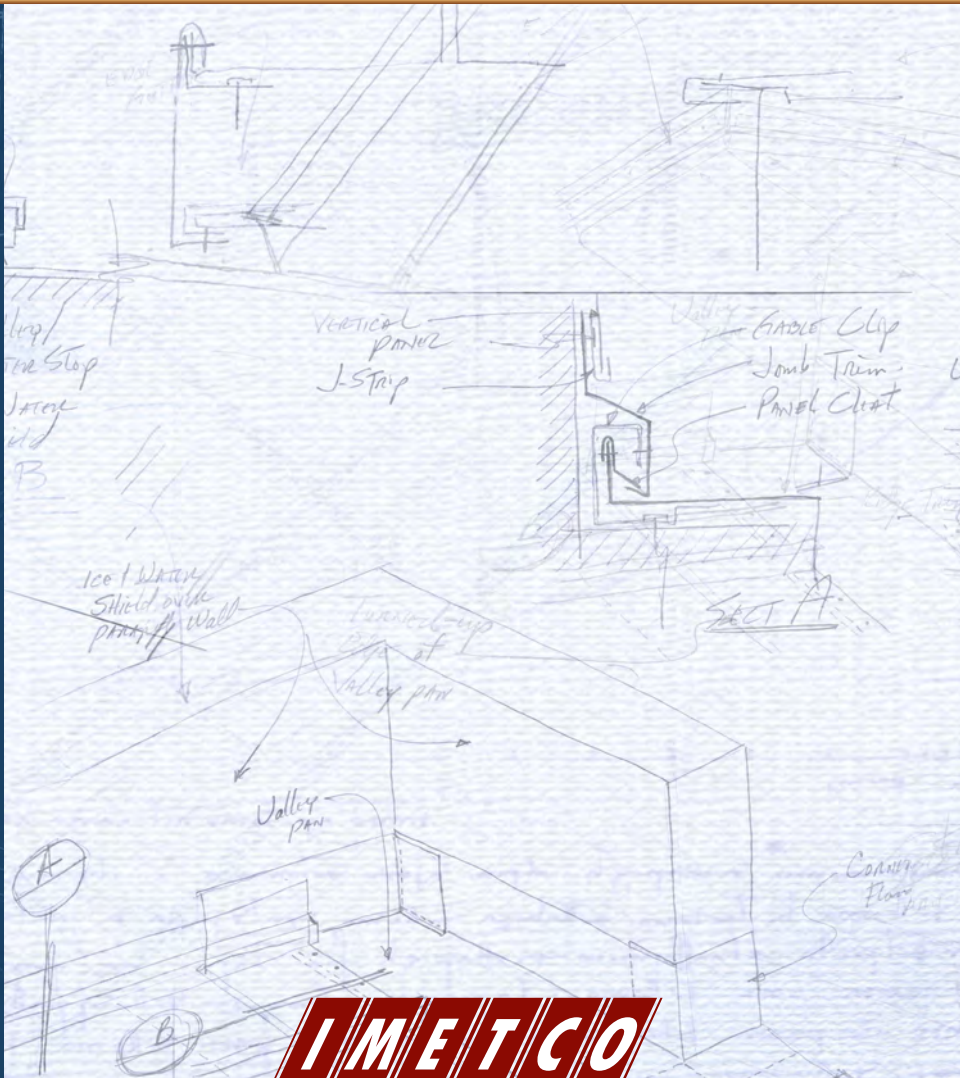
SERIES 300



Timeless elegance, proven performance, strength and versatility make Series 300® the metal roofing system of choice.

For a quarter of a century, Series 300 has protected buildings across North America from even the most severe weather, and after more than two decades, even the earliest Series 300 roofs are as resilient and beautiful as ever.

Series 300 is manufactured to IMETCO's legendary quality standard, and backed by unparalleled service and support.



IMETCO

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Design Characteristics

- **Symmetrical style panel**
 - Sleek, balanced, proportional look that complements any design
 - 2 $\frac{3}{8}$ -inch vertical legs are equal in size and profile
 - A separate seam cap joins the panels
- **Ideal for structural and/or architectural applications**
 - Can be installed over open purlins or solid decks
 - Suitable for slopes as moderate as 1/2:12, on steeper slopes, or vertically as a wall panel
- **Long-term weather-tight performance**
 - Rigorously tested against leaks and hurricane-force winds
 - 3/8" clearance between panel and substrate promotes ventilation
- **Unlimited thermal movement**
 - One-piece heavy-gauge concealed clip for maximum structural performance and unrestricted expansion and contraction
 - Factory-applied hot-melt sealant remains isolated from the clip
 - Custom trim, flashing and system details create a performance-inspired monolithic roof system

Available Materials

- **Steel:** 24-, 22-, and 20-gauge
- **Aluminum:** .032", .040", and .050"
- **Stainless Steel:** 24- and 22-gauge
- **Zinc:** 0.7mm, 0.8mm, and 1.0mm
- **Copper:** 16- and 20-ounce

Specialty Manufacturing Options

- Curving (convex, concave and "S" curves)
- Tapering (to more than 80-feet in length)
- Factory fabricated long panels (up to 85 feet)
- On-site fabrication of factory-quality straight or curved panels

Installation Considerations

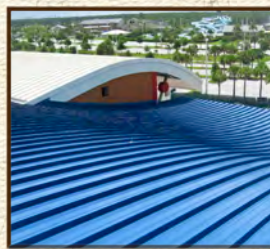
- With no interlocking male/female seams, installers have better control over how and where panels are installed
 - Start from any point on the roof
 - Install panels in either direction, or both directions
 - Run simultaneous crews to cut completion time in half
 - Work around roof penetrations and other obstacles
- Bi-directional mechanical seamer quickly and permanently seals the seam caps at a rate of 60 feet per minute
- Installer-friendly details, fully-tested to remain weathertight
- A full line of accessories available
 - Complete head, hip and valley closure assemblies simplify installation
 - Fascia, coping, trim, and edge stiffeners
 - Gutters, brackets, and downspouts
 - Clips, fasteners, foam, tape, and sealants
 - Snow management and lightning protection systems

Warranties*

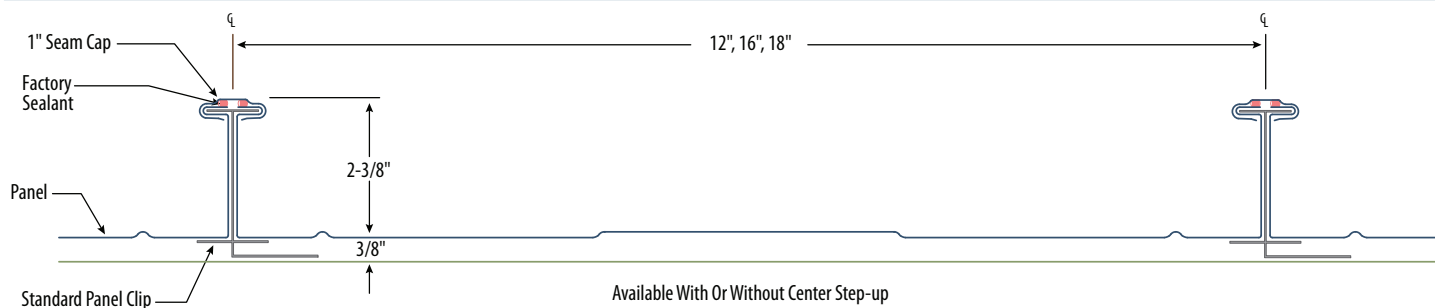
- 20-year finish warranty for Kynar® fluorocarbon coating
- Material and workmanship warranty
- Watertight warranty on qualifying applications

* *Sample warranties available upon request*

Available in **UNITED ZINC**



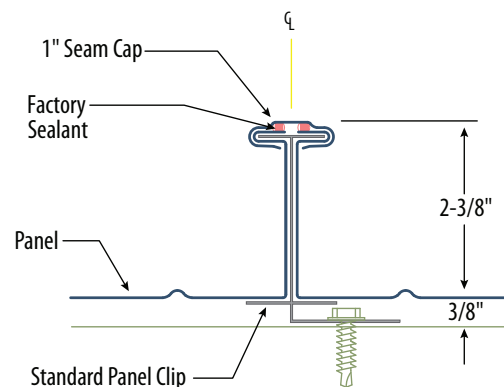
Series 300 Standard Panel Profile



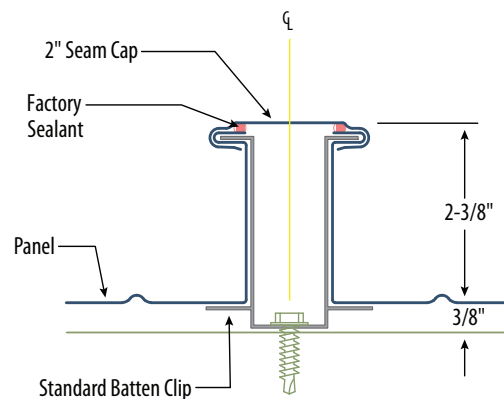
Profiles

- **Standard profile**
 - Features a center stiffening rib between two pencil beads
 - Available without center stiffening rib
 - 12-, 16-, and 18-inch panel widths
 - 1-inch seam cap
- **Batten profile**
 - Features a center stiffening rib between two pencil beads
 - Available with or without center stiffening rib
 - 11-, 16-, and 19-inch panel widths
 - 2-inch batten cap
- **Original profile**
 - Features four evenly-spaced pencil beads
 - 12-, 16-, and 18-inch widths with one-inch standard seam
 - 11-, 16-, and 19-inch widths with two-inch batten seam
- **PV Flat profile**
 - Features a flat pan designed to accept thin-film solar panels
 - 16- and 18-inch widths with one-inch standard seam
 - 19-inch width with two-inch batten seam

Standard Seam Profile



Typical Batten Profile





Testing

| Conditions/Components Tested | UL 580 | ASTM E-1592 | ASTM E-1680 | FM® 4471 | TAS 201 | TAS 203 | ASTM E-1646 | AAMA 501.1 | TAS 100-95 | ASTM E-2140 | TAS 114 (APP G) | UL 263 | TAS 125 | ENCON CN 240 |
|------------------------------------|----------|---------------|----------------------|-------------------|------------------------------|-------------|----------------------|--------------|---------------|----------------------|------------------------|----------------------|---------------|--------------------------------|
| Actual flashings and trim | | ✓ | | | | | | ✓ | ✓ | | | | | |
| Actual field penetration details | | | | | | | | | | ✓** | | | | |
| Panel end laps | | | | | | | | | | ✓ | ✓ | | | |
| Tests to failure | | ✓ | | ✓ | | | | | | | | | ✓ | |
| IBC wind uplift requirement* | ✓* | ✓* | | | | | | | | | | | | |
| Utilizes dynamic loading | ✓ | | | | ✓ | ✓ | | | ✓ | | | | | |
| Thermal expansion/contraction | | | ✓ | | | | ✓ | | | | | | | ✓ |
| Clip wear resistance | | | | | | | | | | | | | | ✓ |
| Foot traffic resistance | | | | ✓ | | | | | | | | | | |
| Impact resistance | | | | | ✓ | | | | | | | | | |
| Vertical load resistance | ✓ | | | | | | | | | ✓ | ✓ | | | |
| Energy efficiency | | | ✓ | | | | | | | | | | | |
| Moisture control | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Climate-Related Performance | | | | | | | | | | | | | | |
| Wind | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | ✓ | |
| Rain | | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Snow | | | ✓ | | | | ✓ | | | ✓ | ✓ | | | |
| Fire | | | | ✓ | | | | | | | | ✓ | | |
| Tornado | | | | | ✓ | ✓ | | | | | | | ✓ | |
| Thunderstorm | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | |
| Hurricane | | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ | |
| Hail | ✓ | | | ✓ | ✓ | ✓ | | | | | | | | |
| Heat/cold variations | | | ✓ | | | | ✓ | | | | | | | ✓ |
| Series 300 Results | Class 90 | Up to 280 psf | .001 cfm/sf @ 20 psf | Up to Class 1-150 | Small & large missile impact | +/- 130 psf | No leaks at 20.0 psf | Up to 70 mph | Up to 120 mph | No leaks for 6 hours | No leaks for 168 hours | Up to Class A rating | Up to 360 psf | 2" movement for 100,000 cycles |

* International Building Code (IBC) requires wind uplift testing in accordance with UL 580 and/or ASTM E1592. Check with your IMETCO representative to determine which test is applicable to your project.

** Testing of field penetration details is optional. Series 300 has been tested with actual field penetration details.



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