



PRODUCT SPECIFICATIONS

Pinnacle Steel Shingles

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Overview: The Pinnacle Steel Shingles are beautifully designed to have the look of dimensional shingles or slate. They interlock on all sides and the fasteners are completely concealed. The lasting strength and durability of this steel shingle combined with state-of-the-art coatings make this a maintenance-free roof that will likely last the life of your home.

Associated flashings and trims are available in the same finish.

Fastening System: Hidden fastener

Applications: Exterior roofing and siding, interior cladding.

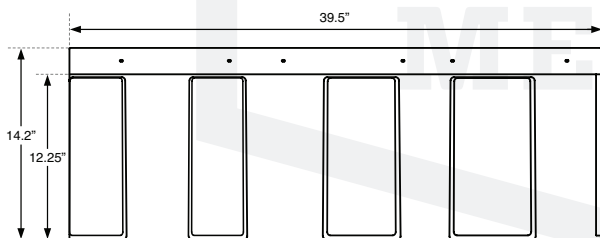
Minimum Slope: Roof minimum is 2/12 (contact our office for lower slope guidance), Siding n/a

Available Gauges: 29ga

Panel Coverage: 39"

Panel Width: 12"

Panel Diagram:



Trims to Consider:

- Anchor Strip 10'
- Eave Drip Edge 10'

- Gable Channel 10'
- Gable Edge Trim 10'
- Headwall Trim 10'
- Hip/Ridge Cap 12"
- Sidewall Flashing 10'
- Trim Coil 23 3/4" x 50'
- Valley Pan 10'

Accessories Recommended:

- Clips with 1" Galvanized Pancake Fasteners or 1.5" Nails

Sustainability: The demand for environmentally friendly, or green product groups within the construction industry has allowed steel products to become part of the renewable or reusable requirements for programs such as LEED. The raw material steel in our panels and trims contains a minimum of 30% recycled content, comprised of 24% post-consumer and 6.8% post-industrial and is 100% recyclable.

Warranty: 40-year is most common but varies depending on paint finish. Consult with a Havelock Metal Co. Product Specialist for further information.

Material Disclaimer: Oil-canning or waving, is a characteristic of flat metal panels and is not considered a defect.

Packaging: Orders are shipped on skids.

Installation: Recommended to install onto a flat surface secured to structural framing or a flat wall surface.

Colours: Please contact a Havelock Metal Co. Product Specialist for available colours.

We strongly advise against mixing batches on any project.

Material Specifications:

PVDF (Kynar®) Pre-Painted Steel

PVDF (polyvinylidene fluoride) paints, also known as Kynar 500®, are known throughout the steel industry for their exceptional gloss, colour retention, and overall performance. Used by some of the most prominent architects throughout the world, PVDF pre-painted steel is utilized in a wide variety of residential, commercial, institutional, and industrial applications.

Pinnacle Steel Shingles

PVDF pre-painted steel products provide architects, designers, and building owners with a building product solution that is not only sustainable but satisfies both the aesthetics and performance expectations of even the most rigorous projects. Complete with a warranty, these products offer environmental benefits such as recyclability, durability, low maintenance, and potential energy savings when used in a roof application. From roofing to wall panels to soffits and beyond, PVDF steel products are the right fit for your high-end architectural projects. The biggest advantage of Kynar® paint systems over SMP is the exceptional long-term performance.

**Available in 29ga
Gr50, G90 & AZ50**

PROPERTY	PVDF COATING TEST METHOD	PVDF COATING SPECIFICATION
Dry Film Thickness	ASTM D 1400-94 ASTM D 1005-95	0.75-1.85 Mil 0.90-1.15 Mil
Specular Gloss	ASTM D 523-89 @ 60°	20-35
Humidity Resistance	ASTM D 2247 (100% relative humidity @ 95°)	Passes 2,000 hrs.
Salt Spray	ASTM B 117 (5% salt spray @ 95°)	Passes 1,000 hrs. with < 5% #6 blisters
Acid Pollutant Resistance	ASTM D 1308-87 (20% sulfuric acid 18 hrs., 10% muriatic acid 15 min.)	No effect
Graffiti Resistance	Cleanability of Defaced Panels (spray paint, pens, etc.)	No effect
Abrasion Resistance	ASTM D 968-93 (to expose 5/32" of substrate)	100 Litres
Chalk Resistance	ASTM D 4214 (Florida Exposure @ 45° S)	Rating not < 8 @ 20 yrs.
Colour Retention	ASTM 2244 – Hunter Units (Florida Exposure @ 45° S)	Rating not > 5Δ Hunter Units @ 20 yrs.
Adhesion	ASTM D 3359-95a (Reverse Impacted 1/16" crosshatched)	No adhesion loss
Pencil Hardness	ASTM D 3363	HB-2H
Reverse Impact	ASTM D 2794-93 (3,000 x inches of metal thickness)	No cracking or loss of adhesion
Flexibility T-Bend	ASTM D 4145-83 (No crack, no pick-off)	0T-3T bends, no loss of adhesion
Mandrel	ASTM D 522-93A (180 bend around 1/8" mandrel)	No cracking

Hunter Units: a standard of key colour scales and colour values that are used by industry for colour control. Oil Canning is a characteristic of metal roofing and not a cause for material rejection. Removable protective film is available upon request. This protective film **MUST** be removed immediately after installation.

