HAVELOCK METAL CO.
ROOFING & SIDING
SINCE 1993

PRODUCT SPECIFICATIONS
Majestic

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Overview: The bold and classic design of the Majestic profile makes it a popular residential, commercial, agricultural, and cottage choice. This is our most widely used profile due to its strength, durability, price point and ease of installation. It is an excellent choice for roofs as the anti-syphon feature on the lapped rib prevents capillary action from occurring. It is highly recommended due to its versatility as a roofing or siding profile that can be used inside or outdoors.

Associated flashings and trims are available in the same finish.

Fastening System: Exposed fastener

Applications: Exterior roofing and siding, interior ceiling and cladding

Minimum Slope: Roof minimum is 3/12 (contact our office for lower slope guidance), Siding n/a

Available Gauges: 24ga, 26ga, 29ga

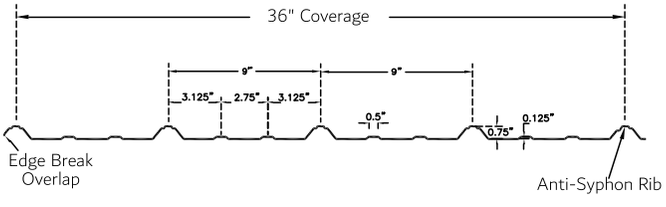
Panel Length: 36" minimum / 37.5' maximum if delivered. Contact our office for longer sheet requirements.

Panel Coverage: 36"

Lbs/Covered Sq Ft:
24ga ≈ 1.19 lbs/covered sq ft
26ga ≈ 0.90 lbs/covered sq ft
29ga ≈ 0.64 lbs/covered sq ft

Rib Height: 3/4" major ribs on 9" centres with shallow ancillary ribs for maximum strength

Panel Diagram:



Overlap/Anti-Syphon Detail:

Roofing Trims to Consider:

- Cap Flashing 3/4" (CAP 0.75)
- Cap Flashing 3/4" (CAPH 0.75)
- Chimney Back Panel (CBP)
- Chimney Flashing (CF)
- Chimney Kit (CKIT)
- Corner Cap (CC)
- Downspout 2-piece (DS)
- Eave Soffit/Fascia Non-Vented 1-Piece (ESFNV 0.75)
- Eave Soffit/Fascia Vented 1-Piece (ESFV 0.75)
- Eave Starter (ES)
- Eave Starter w. Hem (ESH)
- Eavestrough 5" (ET 5)
- Eavestrough 6" (ET 6)
- Eavestrough Outlet 5" and 6" (ETO)
- End Cap (EC)
- End Cap for 5" Eavestrough (ECET 5)
- End Cap for 6" Eavestrough (ECET 6)
- End Cap R6 (ECR6)
- End Cap R8 (ECR8)
- End Wall Flashing (EWF)
- End Wall Flashing w. Hem (EWFH)
- Fascia 12" (FAS 12)
- Fascia 6" (FAS 6)
- Fascia 8" (FAS 8)
- Flying Gable 3/4" (FG 0.75)
- Flying Gable 3/4" w. Hem (FGH 0.75)
- Gable Soffit/Fascia Non-Vented 1-Piece (GSFNV 0.75)
- Gable Soffit/Fascia Vented 1-Piece (GSFV 0.75)
- Gable Starter (GS)
- Gable Starter w. Hem (GSH)
- Gambrel Hip Cap (GHC)
- Gambrel Hip Cap with Hem (GHCH)
- Hemmed Ridge/Hip Cap (HR/HC)
- Hemmed Ridge/Hip Cap with Kick (HR/HCK)
- Ridge Box (RB)
- Ridge Cap (RC)

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Roofing Trims to Consider Continued:

- Ridge Cap R6 (RCR6)
- Ridge Cap R8 (RCR8)
- Ridge Cap with Hem (RCH)
- Side Wall Flashing (SWF)
- Side Wall Flashing w. Hem (SWFH)
- Snow Stop (SNO)
- Snow Stop Subtrim Galvanized 22ga (SNOSUB 22)
- Soffit Non-Vented 12" (SNV 12)
- Soffit Non-Vented 8" (SNV 8)
- Soffit Vented 12" (SV 12)
- Soffit Vented 8" (SV 8)
- Under/Over Flashing w. Hem (UOFH)
- Under/Over Flashing (UOF)
- V-Valley 18"x10' (VV 18)
- V-Valley 24"x10' (VV 24)
- V-Valley 36"x10' (VV 36)
- W-Valley 18"x10' (WV 18)
- W-Valley 24"x10'(WV 24)
- "W-Valley 36"x10' (WV 36)

Siding Trims to Consider:

- Corner Cap (CC)
- Drip Cap 3/4" (DC 0.75)
- Drip Cap Commercial 3/4" (DCC 0.75)
- Eave Soffit/Fascia Non-Vented 1-Piece (ESFNV 0.75)
- Eave Soffit/Fascia Vented 1-Piece (ESFV 0.75)
- Fascia 12" (FAS 12)
- Fascia 6" (FAS 6)
- Fascia 8" (FAS 8)
- Gable or Base Trim 3/4" (GBT 0.75)
- Gable or Base Trim Commercial 3/4" (GBTC 0.75)
- Gable Soffit/Fascia Non-Vented 1-Piece (GSFNV 0.75)
- Gable Soffit/Fascia Vented 1-Piece (GSFV 0.75)
- Inside Corner 3/4" (IC 0.75)
- Inside Corner with 'J' 3/4" (ICJ 0.75)
- Jamb Flashing 3/4" (JF 0.75)
- Jamb Flashing with 'J' 3/4" (JFJ 0.75)
- J-Trim 3/4" (JT 0.75)
- J-Trim Commercial 3/4" (JTC 0.75)
- Outside Corner 3/4" (OC 0.75)
- Outside Corner with 'J' 3/4" (OCJ 0.75)
- Round Track Cover (RTC)
- Sliding Door Trim 'A' 3/4" (SDA 0.75)
- Sliding Door Trim 'B' 3/4" (SDB 0.75)
- Soffit Non-Vented 12" (SNV 12)
- Soffit Non-Vented 8" (SNV 8)
- Soffit Vented 12" (SV 12)
- Soffit Vented 8" (SV 8)
- Square Track Cover (STC)
- T-Trim 3/4" (TT 0.75)
- Wall Ceiling Trim 3/4" (WCT 0.75)
- Wall Soffit Trim 3/4" (WST 0.75)
- Z-Girt (ZGIRT)

Accessories Recommended:

- Roofing Application: #10 x 2" Woodgrip Fasteners in the same colour as the steel panel
- Wall Application: #10 x 1" Woodgrip Fasteners in the same colour as the steel panel

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 the paint finish. Consult with a Havelock Metal Co. Product Specialist for further information.

Packaging: Orders are bundled and wrapped.

Installation: Can be installed on strapping or direct to substrate or in many cases over existing shingles for roofs and siding. See manufacturer for specifics.

Colours: Please contact a Havelock Metal Co. Product Specialist for available colours and gauges. We stock a wide range of material, however additional colours, textures, prints, woodgrains, metallics and gauges may be available with a minimum order quantity.

Please be advised Textures, Woodgrains and Metallic Colours are batch-sensitive. We strongly advise against mixing batches on any project.

Material Specifications:

SMP Pre-Painted Steel
SMP (Silicone Modified Polyester) coating is made of polyester and silicone intermediates. Silicone acts to improve the gloss retention and weather resistance of the coatings. The biggest advantage of SMP paint systems over PVDF (Kynar®) is the price.

Available in 24ga-29ga
Gr33/Gr50/Gr80, G90 & AZ50

PROPERTY	SMP COATING TEST METHOD	SMP 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 1,000 hrs.
Salt Spray	ASTM B 117 (5% salt spray @ 95°)	Passes 1,000 hrs.
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)	25-40 Litres
Chalk Resistance	ASTM D 4214 (Florida Exposure @ 45° S)	Vertical: Rating not < 8 @ 10 yrs. Non-Vertical: Rating not < 7 @ 10 yrs.
Colour Retention	ASTM 2244 – Hunter Units (Florida Exposure @ 45° S)	Vertical: Not > 5Δ Hunter Units @ 10 yrs. Non-Vertical: Not > 6 Δ Hunter Units @ 10 yrs.
Adhesion	ASTM D 3359-95a (Reverse Impacted 1/16" crosshatched)	No adhesion loss
Pencil Hardness	ASTM 3363	H-2H (NCCA II-12)
Reverse Impact	ASTM D 2794-93 (3,000 x inches of metal thickness)	Passes – No pick off with Scotch #610 tape
Flexibility T-Bend	ASTM D 4145-83 (No crack, no pick-off)	2T-4T bends, no loss of adhesion
Film Cure	ASTM D 5402 (› 100 double MEK rubs)	Passes
Fire Rating	E 84	Fuel contributed zero, Passes
Weatherometer	D 6695	Passes 3,000 hrs.
UV Exposure	D 4587	Passes 1,000 hrs.
Film Integrity		40 years – limited warranty

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 on all SMP sheet products. This protective film MUST be removed immediately after installation. Due to high mechanical properties, Grade 80 material is not suitable for Trims, Architectural Panels, Board and Batten or Legacy Standing Seam Panels.

SMP Pre-Painted TEXTURED Steel

SMP (Silicone Modified Polyester) TEXTURED coating is a low gloss finish made of polyester and silicone intermediates. Silicone acts to improve the gloss retention and weather resistance of the coatings. The biggest advantage of SMP paint systems over PVDF (Kynar®) is the price.
The TEXTURED finish not only delivers an eye-catching, 3D visual effect to the product, but also provides a surface that is more durable and scratch-resistant than standard pre-painted product. This texturized finish also offers stronger colour retention and the best resistance yet to chalking and fading.
A perfect product for both residential and commercial projects, SMP Pre-Painted TEXTURED Steel is ideal for roofing, wall panel and architectural applications where enhanced visual depth and proven performance are desired.

Available in 24ga-29ga
Gr33/Gr50/Gr80, G90 & AZ50

PROPERTY	SMP COATING TEST METHOD	SMP COATING SPECIFICATION
Dry Film Thickness	ASTM D 4138	Top Coat: 0.7-0.8 Mil / Primer: 0.2-0.3 Mil
Specular Gloss	ASTM D 523 @ 60°	20-80
Humidity Resistance	ASTM D 2247 (100% relative humidity @ 95°)	Passes 1,000 hrs. with no field blisters
Salt Spray	ASTM B 117 (5% salt spray @ 95°)	Passes 1,000 hrs. with creep from scribe ≤ 1/8", none or few #8 blisters
Water Immersion	ASTM D 870 (100°F 168 hrs.)	No field blisters with min. colour change
Viscosity	ASTM D 4212 (No. 4 Zahn cup)	25 to 45 seconds
Abrasion Resistance	ASTM D 968-93 (to expose 5/32" of substrate)	35 ± 5 Litres
Chalk Resistance (Southern Florida Exposure)	ASTM D 659	Chalk: Rating not < 8 @ 90° angle and 6 @ non-vertical angle @ 30 yrs.
Colour Retention (Southern Florida Exposure)	ASTM 2244	Colour: Rating not > 5ΔE Hunter Units @ 90° vertical angle and 7ΔE non-vertical @ 30 yrs.
Adhesion	ASTM D 3359	No adhesion loss
Pencil Hardness	ASTM D 3363	F to 2H

PROPERTY	SMP COATING TEST METHOD	SMP COATING SPECIFICATION
Reverse Impact	ASTM D 2794 (3x metal thickness inch-lbs.)	No adhesion loss
Flexibility T-Bend	ASTM D 4145 (No crack, no pick-off)	2T-4T bends, no loss of adhesion
VOC (theoretical)	ASTM D 3960	3.0 to 4.0 lbs. per gallon
Film Integrity		40 years – limited warranty

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PVDF (Kynar®) Pre-Painted Steel

PVDF (polyvinylidene fluoride) paints, also known as Kynar 500®, are know 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.
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 24ga
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.

PROPERTY	SMP COATING TEST METHOD	SMP COATING SPECIFICATION
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.

PVDF (Kynar®) Pre-Painted WOODGRAIN 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.
The WOODGRAIN prints are available in a variety of natural colours and patterns offering an authentic woodgrain look providing the aesthetic you need for your project's interior or exterior applications.
These prints are manufactured using an offset gravure printing process. The offset gravure printing process utilizes cylinders that have digital patterns etched into the surface. The etched cylinder rotates in an ink bath and ink collects within the etched pattern, with the excess ink being scraped from the roll. From there the inked pattern transfers to the steel substrate b passing between the transfer roll and an impression roll.
The WOODGRAIN series has the aesthetics of wood with the benefits only steel can provide.

Available in 24ga
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°	10-15
Humidity Resistance	ASTM D 2247 (100% relative humidity @ 95°)	Passes 2,000 hrs. with no field blisters
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	ASTM D 6578 (Cleanability of Defaced Panels spray paint, pens, etc.)	No effect

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PROPERTY	SMP COATING TEST METHOD	SMP COATING SPECIFICATION
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-H
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)	2T bends, no loss of adhesion
Mandrel	ASTM D 522-93A (180 bend around 1/8" mandrel)	No cracking
Film Integrity		25 years – limited warranty

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Galvalume® Steel

Galvalume® refers to 55% Aluminum-Zinc Alloy Coated Steel that is cold-rolled carbon steel with a metallic coating composed of Aluminum (55%), Zinc (43.4%) and Silicon (1.6%). The 55% Aluminum-Zinc Alloy Coated Steel is a favourite of architects due to its eye-catching aesthetics, long-lasting performance, design flexibility and the vast number of potential end-use applications. The aluminium-zinc metallic coating forms a permanently bonded, tough, sacrificial coating that protects the steel from corrosion in most end-use applications.
Galvalume substrate is not warranted to be used, in or around animal confinement or agriculture. Galvalume will very rapidly deteriorate when exposed to the corrosive agents of animal confinement.

Available in 24ga-29ga
Gr33/Gr50/Gr80, G90 & AZ50