2024
PRODUCT DIRECTORY
SEAMLESS COIL & ACCESSORIES FOR SIDING, ROOFING, & GUTTERS

EMCO
BUILDING PRODUCTS

EMCO Building Products is a manufacturer of seamless coil and accessories for siding, roofing, and gutters. Since our founding in 1989, EMCO Building Products has prided itself as a premier manufacturer of home exterior products. We promise to deliver enduring beauty, impressive strength, and uniform quality, which combine to create a stunning exterior appearance. We are committed to being a partner in your business and understand the importance of balancing inventory management and project scheduling. We have strong relationships with several major freight carriers, and we manufacture and ship out of our central location in Fargo, ND. Our products are always ready to ship, and we deliver directly to our customers.

We use premium, exterior-grade, custom ceramic coatings that are Cool Roof Rating Council (CRRC) compliant. At EMCO Building Products, we like to say that we are the "seamless people." We are the only coil supplier in the United States that designs and manufactures jobsite and in-plant roll-forming machines (Eastside Machine Co.). We understand the seamless business and know that your material sourcing can impact your bottom line at multiple levels.

At EMCO Building Products, we can offer you the following benefits:
- Coordinated colors with best-in-class Kynar 500®/Hylar 5000® coatings for attractive, functional exteriors
- Simple ordering, quick turnaround, and fast delivery direct from the manufacturer
- World-renowned roll-forming expertise backed by the best warranties in the industry
- Coil available in multiple sizes and backed with the same color for added flexibility
- Products that are made in the USA from recycled and recyclable steel and aluminum

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SOFFIT & ACCESSORIES

ALUMINUM & STEEL SOFFIT PANELS

Solid Colors: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White

Blended Colors: Fossil*, Mahogany*, Moss*, Saddle*, Shadow*

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	PC/CTN	WT/CTN
	16 in. Solid Soffit Aluminum Panel	0.019 in.	10 ft	133	10	40 lbs
	16 in. Solid Soffit Steel Panel*	28 ga	10 ft	133	10	115 lbs
	16 in. Center Vent Soffit Aluminum Panel Net free area of ventilation: 6.6 sq in. per linear foot	0.019 in.	10 ft	133	10	40 lbs
	16 in. Center Vent Soffit Steel Panel* Net free area of ventilation: 6.6 sq in. per linear foot	28 ga	10 ft	133	10	115 lbs

10-foot and custom-length steel soffit panels are available in solid and blended colors by special order only. Minimums apply.

ALUMINUM SOFFIT J-CHANNEL

Solid Colors: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	LINEAR FT	PC/CTN	WT/CTN
	3/8 in. Aluminum J-Channel	0.019 in.	10 ft	300	30	19 lbs

STEEL FASCIA

Solid Colors: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White

Blended Colors: Fossil*, Mahogany*, Moss*, Saddle*, Shadow*

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	LINEAR FT	PC/CTN	WT/CTN
	6 in. Steel Embossed Fascia*	28 ga	10 ft	100	10	42 lbs
	8 in. Steel Embossed Fascia*	28 ga	10 ft	100	10	52 lbs
	10 in. Steel Embossed Fascia Available in White and Black Only.	28 ga	10 ft	50	5	31 lbs

6- and 8-inch steel fascia is available in blended colors in 10-foot lengths by special order only. Minimums apply.

EMCO BUILDING PRODUCTS

Note: All thicknesses expressed in this product guide are nominal thickness.

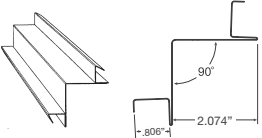## STEEL SILL TRIM, CORNER POST CAP, & J-CHANNEL

Solid Colors: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White

Blended Colors: Fossil, Mahogany, Moss, Saddle, Shadow

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	LINEAR FT	PC/CTN	WT/CTN
	Sill Trim	28 ga	10 ft	300	30	52 lbs
	Corner Post Cap	28 ga	10 ft	100	10	47 lbs
	3/4 in. J-Channel	28 ga	10 ft	300	30	52 lbs
	1-1/8 in. J-Channel	28 ga	10 ft	300	30	52 lbs
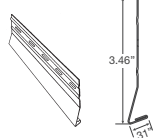
STEEL CORNER POST BASE

Available in: Mill Finish

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	LINEAR FT	PC/CTN	WT/CTN
	Corner Post Base	28 ga	10 ft	100	10	41 lbs

STEEL STARTER STRIPS

Available in: Mill Finish

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	LINEAR FT	PC/CTN	WT/CTN
	2-1/2 in. Steel Starter Strip	28 ga	10 ft	300	30	52 lbs
	3-1/2 in. Steel Starter Strip	28 ga	10 ft	300	30	65 lbs

SIDING COIL, TRIM COIL, & SHAKE PANEL

STEEL SIDING COIL

Solid Colors: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White
Blended Colors: Fossil, Mahogany, Moss, Saddle, Shadow

PRODUCT IMAGE	DESCRIPTION	THICKNESS	FT/LB	SQ/FT	PC/CTN	WEIGHT
	9-5/64 in. Seamless Steel Coil	28 ga	2.03	N/A	1	175 lbs (Mini Coil) / 700 lbs (Full Coil)
	10-5/8 in. Seamless Steel Coil	28 ga	1.74	N/A	1	175 lbs (Mini Coil) / 700 lbs (Full Coil)
	13-1/4 in. Seamless Steel Coil	28 ga	1.41	N/A	1	175 lbs (Mini Coil) / 700 lbs (Full Coil)

Note: Siding coils are sold in full or mini coils, or matched to customer order.
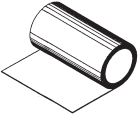
STEEL TRIM COIL

Solid Colors: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White
Blended Colors: Fossil, Mahogany, Moss, Saddle, Shadow

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	PC/CTN	WEIGHT
	23-7/8 in. Steel Trim Coil	28 ga	50 ft	N/A	1	68 lbs

ALUMINUM TRIM COIL

Available in: Black/Mocha, Boulder/Canvas, Bronze/Storm, Carbon/Charcoal, Khaki/Ash, Northwood/Sand, Royal Brown/Brick, Sage/Burlap, Urban/Twilight, White/White

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	PC/CTN	WEIGHT
	24 in. Aluminum Trim Coil	0.019 in.	50 ft	N/A	1	26 lbs

STEEL SHAKE ROOF & ACCENT PANEL

Solid Colors: Ash, Charcoal, Sand, White
Blended Colors: Fossil, Mahogany, Saddle

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	PC/CTN	WEIGHT
	8-5/8 in. Steel Shake Roof & Accent Panel	28 ga	40-5/8 in.	48.66	20	42 lbs

EMCO BUILDING PRODUCTS

Note: All thicknesses expressed in this product guide are nominal thickness.
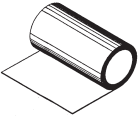
SNAP LOCK STEEL ROOFING COIL
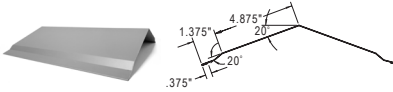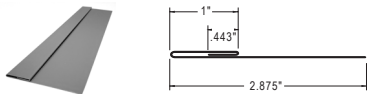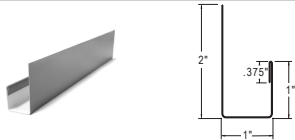
Solid Colors: Ash, Black, Boulder, Brick*, Bronze, Burlap, Canvas, Carbon*, Charcoal*, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight*, Urban, White*
Blended Colors: Fossil, Mahogany, Moss, Saddle, Shadow

PRODUCT IMAGE	DESCRIPTION	THICKNESS	FT/LB	SQ/FT	PC/CTN	WEIGHT
	13-1/4 in. Seamless Steel Coil	26 ga	1.14	N/A	1	700 lbs (Full Coil)
	13-1/4 in. Seamless Steel Coil	28 ga	1.41	N/A	1	700 lbs (Full Coil)

26-gauge material available in these colors only.

SNAP LOCK ROOFING ACCESSORIES

Solid Colors: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White
Blended Colors: Fossil, Mahogany, Moss, Saddle, Shadow

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	LINEAR FT	PC/CTN	WT/CTN
	Valley Cap	28 ga	10 ft	N/A	N/A	N/A
	Ridge Cap	28 ga	10 ft	N/A	N/A	N/A
	Hem	28 ga	10 ft	N/A	N/A	N/A
	1 in. J-Channel	28 ga	10 ft	N/A	N/A	N/A
	Snap Ridge	28 ga	10 ft	N/A	N/A	N/A
	Valley Flashing	28 ga	10 ft	N/A	N/A	N/A
	Edge	28 ga	10 ft	N/A	N/A	N/A
	Rake Trim	28 ga	10 ft	N/A	N/A	N/A

RAINWARE & ACCESSORIES

ALUMINUM & STEEL DOWNSPOUT, ELBOW, & BRICK LEDGE OFFSET

Solid Colors: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White
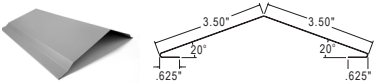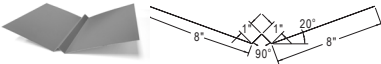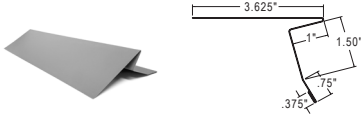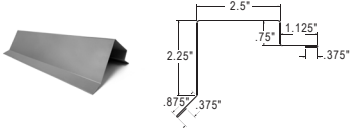**Blended Colors:** Fossil*, Mahogany*, Moss*, Saddle*, Shadow*

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	LINEAR FT	PC/CTN	WT/CTN
	3 in. x 3 in. Aluminum Downspout	0.019 in.	10 ft	80	8	23 lbs
	3 in. x 3 in. Steel Downspout*	28 ga	10 ft	80	8	64 lbs
	3 in. x 3 in. Aluminum Elbow	0.019 in.	N/A	N/A	30	11 lbs
	3 in. x 3 in. Steel Elbow*	28 ga	N/A	N/A	30	45 lbs
	3 in. x 3 in. Aluminum Brick Ledge Offset	0.019 in.	N/A	N/A	12 sets/ctn	9 lbs
	Brick Ledge Offset Not Available in Steel					

Steel downspouts and elbows are available in solid and blended colors by special order only. Minimums apply.

ALUMINUM BOX MITERS & END CAPS

Available in: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	PC/CTN	WT/CTN
	5 in. K-Style Box Outside Miter	0.019 in.	N/A	N/A	20	6 lbs
	5 in. K-Style Box Inside Miter	0.019 in.	N/A	N/A	20	6 lbs
	5 in. Left End Cap	0.019 in.	N/A	N/A	50	2.5 lbs
	5 in. Right End Cap	0.019 in.	N/A	N/A	50	2.5 lbs

ALUMINUM GUTTER COIL

Available in: Boulder/Canvas, Bronze/Storm, Carbon/Charcoal, Khaki/Ash, Northwood/Sand, Mocha/Black, Royal Brown/Brick, Sage/Burlap, Urban/Twilight, White/White

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	FT/LB	PC/CTN	WEIGHT
	11-7/8 in. Aluminum Gutter Coil	0.032 in.	Approx. 770 ft (Full Coil)	2.26	N/A	Approx. 350 lbs (Full Coil)

Note: All coil except white can also be spun down by the foot; additional charges may apply, 50 feet minimum. Weight matched to customer order. White is available in full coils only.

EMCO BUILDING PRODUCTS

Note: All thicknesses expressed in this product guide are nominal thickness.

LEAFAWAY ALUMINUM GUTTER COIL

Available in: Charcoal/Royal Brown, Mocha/Black, Northwood/Bronze, Shell/Raffia Beige, White

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	FT/LB	PC/CTN	WEIGHT
	7-3/8 in. Aluminum Gutter Coil	0.032 in.	Approx. 736 ft (Full Coil)	3.68	1	Approx. 200 lbs (Full Coil)
	13-1/4 in. Aluminum Gutter Coil	0.032 in.	Approx. 718 ft (Full Coil)	2.05	1	Approx. 350 lbs (Full Coil)

Note: All coil except white can also be spun down by the foot; additional charges may apply, 50 feet minimum. White is available in full coils only.

LEAFAWAY END CAPS & GUTTER HANGER

End Caps Available in: White or Paintable

Gutter Hanger Available in: Black

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	PC/CTN	WT/CTN
	5 in. Left End Cap	N/A	N/A	N/A	170	20 lbs
	5 in. Right End Cap	N/A	N/A	N/A	170	20 lbs
	Gutter Hanger	N/A	N/A	N/A	200	33 lbs

TOUCH-UP PAINT, FANFOLD, HOUSE WRAP, & TAPE

TOUCH-UP SPRAY CAN
Available in: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	OZ	PC/CTN	WEIGHT
	Touch-Up Spray Can	N/A	N/A	12	1	1 lb

Note: Use the spray can for mounting blocks, fasteners, end caps, and miters.

TOUCH-UP PAINT BOTTLE
Available in: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	OZ	PC/CTN	WEIGHT
	Touch-Up Paint Bottle	N/A	N/A	0.6	1	0.25 lb

Note: Use the touch-up bottle paint for EMCO steel and aluminum products, nails, and screws.

FANFOLD SIDING UNDERLAYMENT

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	SQ/BUNDLE	WT/BUNDLE
	GreenGuard XFP 38	0.375 in.	50 ft	200	2	18 lbs per Bundle

HOUSE WRAP & TAPE

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	PC/CTN	WT/CTN
	9 ft Tyvek® House Wrap	N/A	150 ft	1350	1	17 lbs
	2 in. Tyvek® Tape	N/A	165 ft	N/A	36	17 lbs per Case
	4 in. DuPont™ Tyvek® StraightFlash™	N/A	150 ft	N/A	4	18 lbs per Case
	9 in. DuPont™ Tyvek® FlexWrap™ EZ	N/A	75 ft	N/A	4	34 lbs per Case

EMCO BUILDING PRODUCTS

Note: All thicknesses expressed in this product guide are nominal thickness.

MOUNTING BLOCKS

Available in: Ash, Black, Boulder, Brick, Bronze, Burlap, Canvas, Carbon, Charcoal, Khaki, Mocha, Northwood, Paintable, Royal Brown, Sage, Sand, Storm, Twilight, Urban, White

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	PC/CTN	WT/CTN
	4 in. Hooded Dryer Vent	N/A	N/A	N/A	1 or 4	1 lb each
	Master Mount	N/A	N/A	N/A	10	5 lbs per Case
	Split Block Mini	N/A	N/A	N/A	10	3 lbs per Case
	Jumbo Mount	N/A	N/A	N/A	10	13 lbs per Case

NAILS

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	SQ/FT	NAILS/CTN	WT/CTN
	7d HDG 2-1/4 in. Siding Nail	N/A	2-1/4 in.	N/A	Approx. 10,000	50 lbs
	HDG 2 in. Roofing Nail	N/A	2 in.	N/A	Approx. 8,000	50 lbs

CAULKING

Quad Available in: Ash, Black, Boulder, Brick, Bronze, Canvas, Carbon, Charcoal, Khaki, Northwood, Royal Brown, Sand, Storm, Urban
HM270 Available in: White, Clear
Geocel Available in: White, Clear

PRODUCT IMAGE	DESCRIPTION	THICKNESS	LENGTH	OZ	PC/CTN	WT/CTN
	Quad Window, Door, & Siding Sealant	N/A	N/A	10	12	13 lbs per Case
	HM270 Construction Silicone Sealant	N/A	N/A	10	12	13 lbs per Case
	Geocel 2320 Gutter Sealant	N/A	N/A	10.3	24	24 lbs per Case

STEEL SIDING, ROOFING, & ACCESSORY MATERIAL SPECIFICATIONS

GENERAL ARCHITECTURAL SPECIFICATIONS

EMCO Building Products steel siding and accessory products are produced in a wide range of colors and are manufactured for use on both residential and commercial exteriors, from new construction to replacement siding on existing buildings. With steel siding from EMCO Building Products, you get the strength of steel and the durability of our exclusive coating. Our siding is tough and UV, chemical, and heat resistant, which virtually eliminates rust, cracks, blistering, chipping, peeling, flaking, and fading.

MATERIALS

Steel siding, roofing, and accessories are made from 28-gauge lock-forming quality, galvanized, coated steel complying with ASTM 653. Material is designed for markets requiring roll-form ability and as a result, the steel substrate is a low carbon alloy designed to take a 2T bend radius. Chemical and mechanical properties of the steel are detailed in addendum I. The ASTM standards have been approved for use by government agencies. 26-gauge is available for siding and roofing panels in limited colors.

MANUFACTURING SPECIFICATIONS

A. Siding panels will contain weep hole spaces approximately every 12-3/4 inches in the leg of the panel bottom to allow condensation and water vapor to be released from the wall. The nailing hem of the panel shall be approximately 3/4 inches and contain nailing holes uniformly spaced approximately 1/8 inches from the edge and approximately 1-1/4 inches on the center to provide for expansion and contraction of the siding wall or roof.

B. The coating applied to the substrate shall be a roll-coated paint system designed for use with roll-form machinery. Specific data regarding weatherability and other performance specifications are detailed below.

C. EMCO Building Products uses domestic steel sources using a minimum of 87% recycled steel.

ADDENDUM I

Chemical composition as detailed by ASTM A653		Typical physical properties of steel	
Carbon (max)	.015 percent	Tensile	45-60 max KSI
Manganese (max)	.600 percent	Yield	33 min KSI
Phosphorus (max)	.035 percent	Elongation	30-35 percent KSI
Sulfur	.040 percent		

(Physical properties can vary from batch to batch, but the above is average expected results.)

ALUMINUM SOFFIT, FASCIA, & RAINWARE MATERIAL SPECIFICATIONS

MATERIALS

EMCO aluminum products shall be made from 3105 or equivalent aluminum alloy and H-26, H-28, or equivalent hardness. Aluminum is a building product grade, tension leveled coil stock, specifically produced to be roll-formed in a consistent manner. All aluminum used for coating is produced in accordance to the Aluminum Standards and Data 2006 edition. The ASTM standards have been approved for use by government agencies. 16-inch center vent soffit panels have a minimum calculated ventilated area (NFOA) of 6.6 square inches per lineal foot.

THICKNESS

0.019 in. nominal - soffit, rainware, trim coil, and accessories

0.032 in. nominal - gutter coil

Note: *Meets performance requirements of AAMA 1402-86.*

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STEEL SIDING, ROOFING, & ACCESSORY PAINT SPECIFICATIONS

SYSTEM OVERVIEW

The Koolnar™ PVDF coil coating system, manufactured and distributed globally by Continental Coatings, Inc. and Yung Chi Paint and Varnish Manufacturing Company, Ltd., is a premium 70% PVDF coil coating system engineered for monumental building product applications and severe exterior environments that require long life and extended warranty coverage. The Koolnar™ system uses licensed Kynar® and Hylar® PVDF Fluoropolymer technology, which is ultra-resistant to UV radiation and natural weathering. Koolnar™ uses only the highest-quality ceramic and metallic pigmentation to ensure optimal exterior colorfastness and longevity. This system is also available in multiple coats and various specialty high-build systems. Koolnar™ may be applied over the Universal PU-11 High Molecular Weight Urethane Primer or PU-30 High-Build Urethane Primer Systems for extreme environment and extra-long service life warranted building product applications.

APPLICATION PARAMETERS

The Koolnar™ system is designed for trouble-free coil coating line application and has been run for well over two decades on new and old coil lines around the world. Standard topcoat DFT is .70-.80 mils, which allows for optimal application consistency, color stability, and exterior performance. Koolnar™ was formulated to provide improved stain resistance and cleanability, as well as scratch resistance and surface toughness. Superior primer corrosion resistance and substrate adhesion, along with chemically enhanced topcoat intercoat adhesion, greatly minimize field scratch and wet stack storage complaints and handling, transporting, and storage-related claims.

COMMERCIAL USES

The Koolnar™ system can be formulated in standard and medium, as well as low gloss/low sheen finishes and supplied in limited colors. This premium coating supports an extended warranty and can be applied to a variety of adequately cleaned and treated metal substrates, including Hot Dipped Galvanized, ZnAl, Galfan®, ZAM®, Aluminum, and Stainless Steels. Koolnar™ is formulated with IR Reflective COOL ROOF ceramic pigment technology and can be designed to meet and exceed ENERGY STAR® requirements. It is ideal for high-end, construction-related products like composite panels, high UV exposure roofing, and acidic/alkaline corrosive environments like industrial manufacturing facilities and power plants.

KOOLNAR™ COIL COATING SYSTEM

APPLICATION		
SPECIFICATIONS	TEST	RESULT
Application Method	N/A	Reverse Roll Coat
Substrate	N/A	Aluminum, HDG, Galvalume®, Galfan®, ZAM®
Pretreatment	Standard Clean and Treat	Chrome or Approved Non-Chrome
ASTM D 4138	Dry Film Thickness	**Topcoat:** 0.7 to 0.8 mils • **Primer:** 0.2 to 0.3 mils • **Total System:** 0.9 to 1.1 mils
ASTM D 4212	Viscosity (No. 2 Zahn Cup)	25 to 45 seconds
ASTM D 1475	Weight Per Gallon	9.0 to 12.0 lbs per Gallon
ASTM D 2697	Solids Per Volume	35 to 42%
ASTM D 2369	Solids Per Weight	45 to 65%
Reducing Thinner	Reducing Solvent	Isophorone/DBE
ASTM D 3960	VOC (Theoretical)	4.0 to 4.8 lbs per Gallon
Clean-Up Solvent	N/A	Aromatic/Ketone
Peak Metal Temperature	N/A	465° to 485° F

KOOLNAR™ COIL COATING SYSTEM *(CONTINUED)*

TECHNICAL DATA		
SPECIFICATIONS	**TEST**	**RESULT**
ASTM D 523	Specular Gloss at 60	6 to 35
ASTM D 3363	Pencil Hardness	F to 2H
ASTM D 4145	T-Bend	1T to 4T with No Loss of Adhesion
ASTM D 3359	Cross Hatch Adhesion	No Loss of Adhesion
ASTM D 2794	Reverse Impact	**Galvalume or HDG:** 3x Metal Thickness Inch-lbs, No Loss of Adhesion **Aluminum:** 1.5x Metal Thickness Inch-lbs, No Loss of Adhesion
ASTM D2247	Humidity Resistance 1,000 hrs Humidity Resistance 3,000 hrs	**Galvalume or HDG:** Creep from Scribe < 1/8 in. (3 mm), No Field Blistering **Aluminum:** Creep from Scribe < 1/8 in. (3 mm), No Field Blistering
ASTM B 117	Salt Spray Resistance 1,000 hrs Salt Spray Resistance 3,000 hrs	**Galvalume or HDG:** No Blistering **Aluminum:** No Blistering
ASTM D 2244 ASTM D 4214	South Florida Exposure	**Color:** No More than 5 Hunter (E) Units **Chalk:** Rating No Less than 8
ASTM D 870	Water Immersion 100° F 500 hrs	No Field Blisters with Minimal Color Change
ASTM D 1308	Chemical Resistance (15 mins)	No Significant Color Change
ASTM E 84	Flame Spread Classification	Class I or A
ASTM D 968	Abrasion Resistance	Total Sand = 65 +/- 5 liters (Dft Dependent)

ALUMINUM SOFFIT, FASCIA, & RAINWARE PAINT SPECIFICATIONS

SYSTEM OVERVIEW

The Supra HD SMP coil coating system, manufactured and distributed globally by Continental Coatings, Inc. and Yung Chi Paint and Varnish Manufacturing Company, Ltd., is a silicone-modified polyester high-durability coil coating system engineered for high-end metal building product applications and challenging exterior environments that require long life and extended warranty coverage. The Supra HD system is formulated with a proprietary state-of-the-art polyester resin and silicone polymer system, which is significantly more resistant to UV radiation and natural weathering than traditional polyester paints. Supra HD uses high-quality, long-lasting organic, ceramic, and metallic pigmentation to ensure excellent exterior colorfastness and coating service life. This system is also available in multiple coats and various specialty high-build systems for custom projects and perforated applications. Supra HD may be applied Single Coat or over the Universal PU-11 High Molecular Weight Urethane Primer or PU-30 High-Build Urethane Primer Systems for extreme environment warranted building product applications.

APPLICATION PARAMETERS

Supra HD system is designed for trouble-free, high-line speed coil coating line application. It has been run worldwide under a very wide range of application parameters and substrate conditions. Standard topcoat DFT is .60-.80 mils, which allows for optimal application consistency, color stability, and exterior performance. Supra HD was formulated to provide improved stain resistance and cleanability, as well as scratch resistance and surface toughness, while maintaining the good system flexibility required for long-term bend line corrosion performance. Supra HD paint film is extra tough and can handle difficult roll-forming, panel stacking, and transport conditions. Superior primer corrosion resistance and substrate adhesion provide significantly enhanced protection against wet stack storage problems, cut edge, and scratch corrosion.

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COMMERCIAL USES

Supra HD system can be formulated in standard, medium, textured, and low gloss/low sheen finishes and supplied in a wide range but with limited color palettes. This premium coating supports an extended warranty and can be applied to a variety of adequately cleaned and treated metal substrates, including Hot Dipped Galvanized, ZnAl, Galfan®, ZAM®, and Aluminum. Supra HD can be formulated with COOL ROOF ceramic pigment technology and can be formulated to exceed ENERGY STAR® requirements. It is ideal for metal wall panels, industrial and agricultural metal building components, premium rainware, commercial and residential metal roofing, and pre-engineered metal building system applications.

SUPRA HD PREMIUM HIGH DURABILITY COIL COATING SYSTEM - SILICONE-MODIFIED POLYESTER

APPLICATION		
SPECIFICATIONS	**TEST**	**RESULT**
Application Method	N/A	Reverse Roll Coat
Primer	N/A	Single Coat, PU11 HMW PU, PU30 High-Build PU
Substrate	N/A	Aluminum, HDG, Galvalume®, ZAM®
Pretreatment	Standard Clean and Treat	Chrome, Zinc Phosphate, or Approved Non-Chrome
ASTM D 4138	Dry Film Thickness	**Topcoat:** 0.6 to 0.8 mils • **Primer:** 0.15 to 0.3 mils • **Total System:** 0.60 to 1.10 mils
ASTM D 4212	Viscosity (No. 4 Zahn Cup)	25 to 35 seconds
ASTM D 1475	Weight Per Gallon	9 to 12 lbs per Gallon
ASTM D 2697	Solids Per Volume	50 to 55%
ASTM D 2369	Solids Per Weight	60 to 75%
Reducing Thinner	Reducing Solvent	Aromatic
ASTM D 3960	VOC (Theoretical)	3 to 4 lbs per Gallon
Clean-Up Solvent	N/A	Aromatic/Ketone
Coating Mileage	N/A	1069 to 1176 SQ/FT per Gallon
Peak Metal Temperature	N/A	435° F to 450° F

TECHNICAL DATA		
SPECIFICATIONS	**TEST**	**RESULT**
ASTM D 523	Specular Gloss at 60	6 to 85
ASTM D 3363	Pencil Hardness	H to 3H
ASTM D 4145	T-Bend	0T to 2T with No Loss of Adhesion
ASTM D 5402	Solvent Resistance (MEK Rubs)	100 +
ASTM D 3359	Cross Hatch Adhesion	No Loss of Adhesion
ASTM D 2794	Reverse Impact	**Galvalume or HDG:** 3x Metal Thickness Inch-Pounds, No Loss of Adhesion **Aluminum:** 1.5x Metal Thickness Inch-Pounds, No Loss of Adhesion
ASTM B 117	Salt Spray Resistance 1,000 hrs Salt Spray Resistance 2,000 hrs	**Galvalume or HDG:** Creep from Scribe < 1/8 in. (3 mm), None, or Few #8 Blisters **Aluminum:** Creep from Scribe <1/8 in. (3 mm), Few #8 Blisters
ASTM D 2244 ASTM D 4214	South Florida Exposure	**Color:** No More than 5 (E) Hunter Units at 90° Vertical Angle and 7 (E) Units Non-Vertical **Chalk:** Rating No Less than 8 at 90° Angle and 6 at Non-Vertical Angle **Film Integrity:** 25 Years, No Blisters, Peeling, or Cracking
ASTM D 870	Water Immersion 100° F 168 hrs	No Field Blisters with Minimal Color Change
ASTM D 1308	Chemical Resistance (15 mins)	No Significant Color Change (Color Dependent)
ASTM E 84	Flame Spread Classification	Class I or A
ASTM D 968	Abrasion Resistance	Total Sand = 35 +/- 5 liters (Dft Dependent)

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EMCO BUILDING PRODUCTS USES THE WORLD'S MOST RECYCLED MATERIALS

We strive to manufacture products that promote a healthier environment for all. This is the reason behind EMCO Building Products' commitment to using recycled steel and aluminum as our primary materials. Both steel and aluminum are highly reusable, with a 95 to 100% recycle rate globally. Further, the life expectancy is greater for steel and aluminum products than most other materials such as vinyl, wood, or fiber cement.

We are so committed to sustainability that we make our steel products from a minimum of 87% recycled steel and our aluminum products from a minimum of 99% recycled aluminum. Plus, all of our steel and aluminum home exterior products are completely recyclable at the end of their long, useful lives. That's called reducing, reusing, and recycling! We take further steps towards sustainability on our jobsites. There, we ensure steel and aluminum scraps are separated and recycled.

There are practical benefits to these strategies, too. Due to the incredibly long life and documented durability, steel siding is aesthetically pleasing on buildings. It's an all-around attractive investment. And, EMCO Building Products is focused on investing in our environment in as many ways as we can. From the stringent eco-guidelines followed by our paint line to our commitment to using recycled steel and aluminum, EMCO Building Products keeps moving forward with the environment.