ATAS International, Inc.

Sustainable Building Envelope Technology

SPECIFICATION DATA SHEET

1. PRODUCT NAME

FLAT SHEET AND COIL

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

Aluminum or metallic coated steel with PVDF finish used to produce flat sheets and coils.

Aluminum alloy ASTM B 209 Alloy 3003 H14 or 3105 H24, or **Metallic coated steel** ASTM A 653 structural steel SS 50 (SS 37 for 48" width) with G90 coating or ASTM A 792 Structural Steel grade 50 (grade 37 for 48" width) with AZ50 coating. Materials are pretreated, primed and coated with a full strength 70% PVDF coating system, consisting of nominal 1.0 mil total dry film thickness (.2 mil primer with a .8 mil top coat). Reverse side is coated with a wash coat of .4 to .5 mil dry film thickness. Galvanized materials are pretreated with a high-performance zinc phosphate system.

Masking, a strippable polymer film, can be applied as a protective covering for handling during fabrication and installation of materials, if requested. The polymer masking must be removed immediately after installation and should not be exposed to continued periods of direct sunlight or extreme heat.

Basic Use: Architectural sheet metal applications in general building construction, such as metal roofing, metal walls, mansard applications, fascias, soffits, ceilings, storefronts, copings, gravel stops, specialty accent details, etc.

Materials:

Gauges Available:

Aluminum - .032, .040, .050, .063 and .080 thicknesses.
Metallic coated steel - 29, 24 and 22 gauge.
Sheet Sizes - Up to 60" width by length required.
Texture - Smooth and embossed available.

Limitations:

All ATAS materials are pre-finished and, therefore, care should be taken during fabrication and installation of materials. Fabrication and installation of materials should conform to standards established by the architectural sheet metal community. During the fabrication and/or forming of the materials, proper bend radii must be used. Minor scratches should be touched-up immediately, utilizing an air dry coating furnished by ATAS. For damage other than minor scratches, such as dents, deep abrasions, or scratches that have damaged base materials, the actual unit should be replaced. All metal shavings, chips, and dust must be removed from material immediately.

4. TECHNICAL DATA

Applicable Standards

Aluminum

Aluminum materials conform to ASTM B 209, alloy 3003 H14 or 3105 H14. Painted aluminum conforms to performance requirements of AAMA 2605.

Finish: 70% PVDF

Color Name & Number		Steel Gauge			Aluminum			
		29	24	22	.032	.040	.050	.063
Classic Bronze	01		•	•	•	•	•	•
Black	02		•		•	•	•	
Medium Bronze	03		•	•	•	•	•	•
Chocolate Brown	04		•		•	•	•	
Concord Cream	05		•		•	•	•	
Sandstone	06		•	•	•	•	•	•
Redwood	07		•		•	•	•	
Mission Red	08		•		•	•	•	
Sierra Tan	09		•		•	•	•	
Ascot White	10		•		•	•	•	•
Forest Green	11		•		•	•	•	
Patina Green	12		•		•	•	•	
Dove Grey	13		•		•	•	•	•
Siam Blue	14		•		•	•	•	
Rawhide	15		•		•	•	•	
Rocky Grey	16		•		•	•	•	
Regal Blue	18		•		•	•	•	
Teal	19		•		•	•	•	
Slate Grey	20	•	•	•	•	•	•	
Slate Blue	21		•		•	•	•	
Boysenberry	25		•		•	•	•	
Bone White	26	•	•	•	•	•	•	•
Hartford Green	27		•		•	•	•	
Char Brown (Low Gloss)	29	•						
Hemlock Green	30		•		•	•	•	
Almond	36		•		•	•	•	
Charcoal Grey	62		•		•	•	•	
Acrylic Coated Galvalume®	97		•					
Mill Finish - Aluminum	99				•	•	•	•
Premium Finish								
Brite Red	17		•		•	•	•	
Coppertone	23		•		•	•		
Antique Patina	24		•		•	•		
Silversmith	28		•	•	•	•	•	
Champagne	31		•		•	•		
Titanium	35		•		•	•	•	
Clear Satin Anodized	70				•	•	•	
Dark Bronze Anodized	71				•	•		

• Available Material and Thickness
Non-stock colors and gauges are available with minimum quantities and longer lead time.
Visit ATAS' web site for specialty trend colors in gauges and widths not shown on this chart.
NOTE: Other standard colors may be available in .063 aluminum, .080 aluminum, 29 ga. metallic coated steel, and 22 ga. metallic coated steel; subject to minimum quantity, coating surcharge and longer lead time.

Metallic Coated Steel

Both Galvanized Steel and 55% Al-Zn alloy coated Steel meet general requirements of the construction industry. Galvanized Steel materials conform to ASTM A 653, with a G90 coating. 55% Al-Zn alloy coated Steel materials conform to ASTM A 792, with an AZ50 coating. Materials are structural steel grade 50 except for 29 ga. thickness and 48 inch wide sheets, which are grade 37.

PVDF Finish Coating shall meet the following performance criteria:

Property	Result-Aluminum	Result-Steel	Test Designation
60° Specular Gloss	25-40	25-40	ASTM D 523
Pencil Hardness	HB-2H	HB-2H	ASTM D 3363 NCCA 11-12
Flexibility: T-Bend Mandrel	2-T (1) No cracking	2-T (1) No cracking	ASTM D 4145, (NCCA 11-19) No cracking or tape removal of film ASTM D 522 180 bend around 1/8" mandrel
Adhesion: Impact Reverse Impact	Acceptable (2) Acceptable (2)	Acceptable (2) Acceptable (2)	ASTM D 3359, (NCCA 11-5) ASTM D 2794, (NCCA 11-6)
Abrasion: Falling Sand Transit	50 liters minimum No disfigurement	50 liters minimum No disfigurement	ASTM D 968 Method A
Acid Pollutants	No effect No effect <5 u. color change HunterΔE units	No effect No effect <5 u. color change Hunter ΔE units	ASTM D 1308, Proc. 6.2 10% Muriatic acid, 15 min. ASTM D 1308, Proc. 6.2 20% sulfuric acid, 18 hrs. AAMA 2605, TEST # 7.7.3.3 70% nitric acid vapors, 30 min.
Acid Rain Test	10 cycles minimum No color change	10 cycles minimum No color change	KESTERNICH Sulfur dioxide cyclic test
Accelerated Tests			
Weatherometer, 3000 hrs. exposure	Acceptable (3)	Acceptable (3)	ASTM D 822, G 155 Weatherometer
Dew Cycle Weatherometer, 500 hrs. exposure	Acceptable (3)	Acceptable (3)	ASTM D 3361
Humidity, 100% relative humidity @ 95°F.	Passes 3000 hrs. (4)	Passes 1500 hrs. (4)	ASTM D 2247
Salt Spray, 5 % sat fog @ 95°F.	Passes 3000 hrs. (5)	Passes 1000 hrs. (5)	ASTM B 117 (NCCA 111-2)
Cyclic Salt fog/UV Exposure Test	Passes 2016 hrs. (6)	Passes 2016 hrs. (6)	ASTM D 5894

Notes:
(1) Flexible to point of metal rupture without rupture of coating.
(2) No loss of adhesion between coating and substrate to point of metal rupture with 1/16" cross-hatch scribe pattern through coating to bare metal.
(3) No objectionable chalking, color change or blistering.
(4) No No. 8 size blisters.
(5) Aluminum: none or few No. 8 size blisters, not more than 1/16" avg. creep or tape off scribe.
Metallic Coated Steel: none or few No. 8 size blisters, not more than 1/8" avg. creep or tape off scribe.
(6) No blistering and no rating less than 5 per ASTM D 714; no rusting per ASTM D 610; Rating of 6, less than 1.5 mm creepage from scribe per ASTM D 1654.

5. INSTALLATION

Installation shall be in accordance with standards established by the Architectural Sheet Metal Community. Installer to comply with all manufacturer's installation instructions as per project requirements. Care should be taken during handling and fabrication of materials to prevent bending, twisting, abrasion, scratching, denting, etc. All cutting tools should be kept sharp, properly dressed and aligned. If protective masking is utilized, it must be removed immediately after installation.

6. AVAILABILITY AND COST

Availability: Normal orders for in stock items and colors are ready for shipment within a 48 to 72 hour period. Custom fabricated items are shipped within 7 to 10 working days. Requests for custom colors need longer lead time. Products are sold through Dealer/Distributor outlets.

Materials: Shipped F.O.B. ATAS Plant.
Cost: For specific cost and availability contact ATAS.

7. WARRANTY

Products coated with a fluoropolymer, 70% PVDF finish carry a limited warranty against chalking and fading. The product is to be used as it is intended.

8. MAINTENANCE

ATAS coated materials are non-staining and virtually maintenance free. Any surface residue is easily removed with conventional cleaning solvents or detergents. For painted products, minor scratches should be touched up with an air dry touch-up coating of the same color. Conventional caulking compounds and sealants compatible with the ATAS finish are acceptable for use in conjunction with the ATAS coated materials.

9. TECHNICAL SERVICES

Complete technical information and literature are available at www.atas.com. ATAS will assist with design ideas and shop drawings.

10. FILING SYSTEM

- www.atas.com
- Additional product information is available from the manufacturer upon request.