

# ATAS INTERNATIONAL, INC.

6612 SNOWDRIFT ROAD ALLENTOWN, PENNSYLVANIA 18106  
 PHONE (610) 395-8445 FAX (610) 395-9342

## SPECIFICATION DATA SHEET FLAT SHEET AND COIL

### 1. PRODUCT DESCRIPTION

Aluminum or Metallic Steel with PVDF finish used to produce flat sheets and coils.

**Aluminum Alloy** ASTM B 209 Alloy 3003 H14 or 3105 H14, 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 PVDF (containing a minimum of 70% KYNAR 500® or HYLAR 5000® Resin) 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, 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 - 22, 24 and 29 gauge.

Sheet Sizes - Up to 60" width by length required.

Texture - Smooth and stucco 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 which have damaged base materials, the actual unit should be replaced. All metal shavings, chips, and dust must be removed from material immediately.

### 2. 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: KYNAR 500® PVDF or HYLAR 5000® PVDF

COLOR NUMBER refer to number inside	STEEL			ALUMINUM				
	29 ga	24 ga	22 ga	.032	.040	.050	.063	.080
CLASSIC BRONZE (01)		X	X	X	X	X	X	X
BLACK (02)		X		X	X	X		
MEDIUM BRONZE (03)		X	X	X	X	X	X	
CHOCOLATE BROWN (04)		X		X	X	X		
CONCORD CREAM (05)	+	X		X	X	X		
SANDSTONE (06)	+	X	X	X	X	X	X	
REDWOOD (07)		X		X	X	X		
MISSION RED (08)	+	X*		X	X	X		
SIERRA TAN (09)	+	X*		X	X	X		
ASCOT WHITE (10)	+	X		X	X	X	X	
FOREST GREEN (11)		X*	X	X	X	X	X	
PATINA GREEN (12)		X		X	X	X		
DOVE GREY (13)	+	X		X	X	X	X	
SIAM BLUE (14)	+	X		X	X	X		
RAWHIDE (15)	+	X		X	X	X		
ROCKY GREY (16)		X*		X	X	X		
BRITTE RED (17)	+	X		X	X	X		
REGAL BLUE (18)		X		X	X	X		
TEAL (19)		X		X	X	X		
SLATE GREY (20)		X*	X	X	X	X		
SLATE BLUE (21)		X		X	X	X		
MINT GREEN (22)	+	X		X	X	X		
BOYSENBERRY (25)		X		X	X	X		
BONE WHITE (26)	+	X	X	X	X	X	X	X
HARTFORD GREEN (27)		X		X	X	X		
CHAR BROWN (29)		X*						
HEMLOCK GREEN (30)		X		X	X	X		
PREMIUM								
COPPERTONE (23)	+	X	X	X	X			
ANTIQUÉ PATINA (24)	+	X		X	X			
SILVERSMITH (28)	+	X		X	X			
CHAMPAGNE (31)	+			X	X			
MILL FINISH								
55% Al-Zn COATED STEEL WITH ACRYLIC COATING (97)	+	X						
MILL FINISH-ALUMINUM (99)	+			X	X	X	X	X
ANODIZED								
CLEAR (70)				X	X	X		
DARK BRONZE (71)				X	X			

X-AVAILABLE FOR IMMEDIATE SHIPMENT \* - Low Gloss Finish  
 + - Meets the Requirements of ENERGY STAR® Initial Reflectance for roofing products  
**Visit ATAS's Website for speciality trend colors in gauges and widths not shown on this chart.**  
 NOTE: .063/.080/29 ga./22 ga. Other standard colors may be available, subject to minimum quantity, coating surcharge and longer lead time  
 KYNAR 500® is a registered trademark of Arkema.  
 HYLAR 5000® is a registered trademark of Ausimont.

#### Metallic Coated Steel

Both Galvanized Steel and 55% Al-Zn coated Steel meet general requirements of the construction industry. Galvanized Steel materials conform to ASTM A 653, with a G90 coating. 55% Al-Zn 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.

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 - H	HB - H	ASTM D 3363 NCCA 11-12
Flexibility: T-Bend	1-T (1)	2-T (1)	ASTM D 4145, (NCCA 11-19) No cracking or tape removal of film
Mandrel	No cracking	No cracking	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 HunterΔE 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
<b>Accelerated Tests</b>			
Weatherometer, 3000 hrs. exposure	Acceptable (3)	Acceptable (3)	ASTM D 822, G 155 Atlas Weatherometer
Dew Cycle Weatherometer, 500 hrs. exposure	Acceptable (3)	Acceptable (3)	ASTM D 3361
Humidity, 100% relative humidity @ 95° F.	Passes 4000 hrs. (4)	Passes 1500 hrs. (4)	ASTM D 2247
Salt Spray, 5% salt fog @ 95°F.	Passes 4000 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 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

**3. 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.

**4. 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:

**5. WARRANTY**

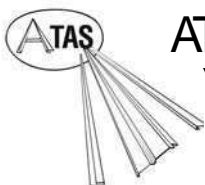
ATAS coatings and base materials are warranted for film integrity (color-fade-chalk) and rupture, cracking or perforating for a thirty-year period from time of shipment, as per standard terms and conditions noted in materials and finish warranty. An actual copy of the warranty will be sent upon request. The product is to be used as it is intended.

**6. MAINTENANCE**

ATAS coated materials are non-staining and virtually maintenance free. Any surface residue is easily removed with conventional cleaning solvents or detergents. Minor scratches may 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.

**7. TECHNICAL SERVICE**

ATAS offers full in-house technical services, as well as a nationwide network of field service representatives.



**ATAS International, Inc.**

www.atas.com • email: info@atas.com

Allentown, PA 18106  
Ph: 610-395-8445 800-468-1441  
Fax: 610-395-9342

Mesa, AZ 85204  
Ph: 480-558-7210 800-879-8382  
Fax: 480-558-7217

Maryville, TN 37801  
Ph: 800-468-1441