



# ATAS INTERNATIONAL, INC.

## SPECIFICATION DATA SHEET

### 1. PRODUCT NAME

#### CASTLE TOP® HCT160

### 2. MANUFACTURER

ATAS INTERNATIONAL, INC.

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email: [info@atas.com](mailto:info@atas.com)

#### Corporate Headquarters:

Allentown, PA 18106

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#### Western Facility:

Mesa, AZ 85204

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#### Southern Facility:

Maryville, TN 37801

Phone: (800) 468-1441

### 3. PRODUCT DESCRIPTION

#### **Basic Uses:**

Castle Top diamond-shaped metal shingles can be used for residential or commercial applications as a roof or wall panel. In some cases, the shingles may be applied directly over the old roof, eliminating the need for tear-off and disposal of the old roofing material. Recommended slope is 3:12.

#### **Composition & Materials:**

Castle Top shingles are manufactured from .032 Aluminum; 16 oz. Copper or .028 Zinc. An expanded polystyrene backer board gives strength to the shingle to allow for foot traffic during installation.

#### **Sizes and Profiles:**

Castle Top diamond-shaped shingles measure 15 3/4" by 15 3/4". Actual exposure is 13 1/2" by 13 1/2". There are 78 shingles per 100 square feet.

#### **Colors & Finishes:**

Aluminum shingles are available in a choice of 30 colors in the KYNAR 500® PVDF or HYLAR 5000® PVDF. (Request color chart or chips.) Copper and Zinc shingles have a natural finish.

### 4. TECHNICAL DATA

KYNAR 500® PVDF or HYLAR 5000® PVDF

finishes tested by paint supplier for:

Dry Film Thickness: ASTM D 1005,

ASTM D 1400, ASTM D 4138 or

ASTM D 5796

Specular Gloss: ASTM D 523

Pencil Hardness: ASTM D 3363

T-Bend Flexibility: ASTM D 4145

Mandrel Bend Flexibility: ASTM D 522

Impact Resistance: ASTM D 2794

Adhesion: ASTM D 3359

Water Immersion Resistance: ASTM D 870

Abrasion Resistance: ASTM D 968

Acid Resistance: ASTM D 1308

Acid Rain Resistance (Kesternich): ASTM G 87  
or DIN 50018

Salt Spray: ASTM B 117

Cyclic Salt Spray: ASTM D 5894 and  
ASTM D 5487

Humidity Resistance: ASTM D 2247

Accelerated Weathering: ASTM D 822 and  
ASTM G 23, ASTM G 151 or ASTM G 153

Color Retention, Florida Exposure:  
ASTM D 2244

Chalking Resistance: ASTM D 4214

Cleveland Condensing Cabinet: ASTM D 4585

Cure Test, MEK Resistance: ASTM D 5402

Alkali Resistance, Sodium Hydroxide: ASTM D  
1308 Procedure 7.2

Organic coatings meet requirements of AAMA  
2605 when applied to aluminum.

Panel testing/ratings:

Uplift: UL 1897

Wind Driven Rain: PA 100-95  
(for R & D purposes only)

Fire Resistance: UL 790/ASTM E 108

Impact Resistance: UL 2218

Penetration (Foot Traffic): ICC ES ACC 166,  
Par 4.2

Florida Product Approval: FL2905-R1

Aluminum: ASTM B 209

Copper: ASTM B 370

Zinc: EN 988

Coil Coating: ASTM A 755

Field Tested and Approved.

### 5. INSTALLATION

Castle Top shingles are installed similar to traditional shingles. The shingles have a turned down edge on the front and a turned up edge on the back for double sealing protection. A concealed fastening system is used. Different colors may be combined to create interesting patterns. Installation manuals or hands-on training via seminars are available through ATAS. Visit [www.atas.com](http://www.atas.com) for more information.

### 6. AVAILABILITY & COST

#### **Availability:**

Castle Top shingles are readily available through ATAS product distributors. A complete line of related components and trim accessories are available to complete the roof system. Flat sheet and/or coil stock in

matching color are also available for fabrication of related accessories by the installing contractor.

#### **Cost:**

Contact ATAS product distributors for current pricing.

### 7. WARRANTY

Products coated with a fluoropolymer, KYNAR 500® PVDF or HYLAR 5000® PVDF finish carry a thirty (30) year limited warranty against cracking, peeling, chalking and fading.

### 8. MAINTENANCE

Castle Top shingles are virtually maintenance free. Surface residue may be easily removed by conventional cleaning methods. Minor scratches may be touched up with a matching paint, available from the manufacturer.

### 9. TECHNICAL SERVICES

Complete technical information and literature are available from ATAS International, Inc. ATAS will assist with design ideas and shop drawings.

### 10. FILING SYSTEM

- [www.construction.com](http://www.construction.com)
- [www.atas.com](http://www.atas.com)

Additional product information is available from the manufacturer upon request.

