

## 1. PRODUCT NAME

**CASTLE TOP®  
HCT160**

## 2. MANUFACTURER

ATAS INTERNATIONAL, INC.

Website: [www.atas.com](http://www.atas.com)

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

Corporate Headquarters:

Allentown, PA 18106

Phone: (800) 468-1441

## 3. PRODUCT DESCRIPTION

### Basic Uses:

CastleTop 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.

### Composition & Materials:

**Standard Offerings:** CastleTop shingles are manufactured from .032 aluminum. An expanded polystyrene backer board gives strength to the shingle to allow for foot traffic during installation.

**Special Offerings:** 16 oz. copper or .7 mm zinc may be specified, subject to minimum quantities and lead time.

### Sizes and Profiles:

CastleTop diamond-shaped shingles measure 15 3/4" by 15 3/4". Actual coverage 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 over 40 stock colors in the 70% PVDF. (Request color chart or chips.) Copper and zinc shingles have a natural finish. Texture is stucco embossed for aluminum and smooth for copper and zinc.

## 4. TECHNICAL DATA

70% 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

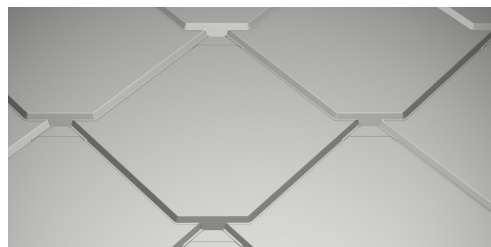
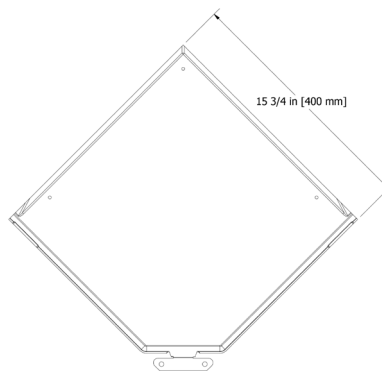
- Salt Spray: ASTM B 117
- Cyclic Salt Spray: ASTM D 5894 and ASTM D 5487
- Humidity Resistance: ASTM D 2247
- Accelerated Weathering: ASTM D 822 and ASTM G 155, ASTM G 151 or ASTM G 153
- Color Retention, Florida Exposure: ASTM D 2244
- Chalking Resistance: ASTM D 4214
- Cleveland Condensing Cabinet: ASTM D 4585
- Cure Test, MEK Resistance: ASTM D 5402
- Alkali Resistance, Sodium Hydroxide: ASTM D 1308 Procedure 7.2
- Flame Spread Rating: ASTM E 84
- 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
- Aluminum: ASTM B 209
- Copper: ASTM B 370
- Zinc: EN 988
- Coil Coating: ASTM A 755

## 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. Recommended minimum slope is 3:12. Installation details 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 is 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, 70% PVDF finish carry a limited warranty against chalking and fading.

## 8. MAINTENANCE

CastleTop shingles require minimal maintenance. Surface residue may be easily removed by conventional cleaning methods. For painted products, minor scratches should 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.atas.com](http://www.atas.com)
- Additional product information is available from the manufacturer upon request.

