

1. PRODUCT NAME

**CASTLE TOP®
HCT160**

2. MANUFACTURER

ATAS INTERNATIONAL, INC.

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Corporate Headquarters:

Allentown, PA 18106

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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.) An anodized finish is available in Clear Satin or Dark Bronze. 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

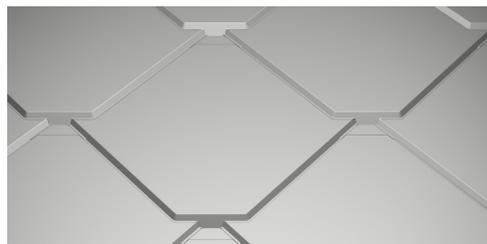
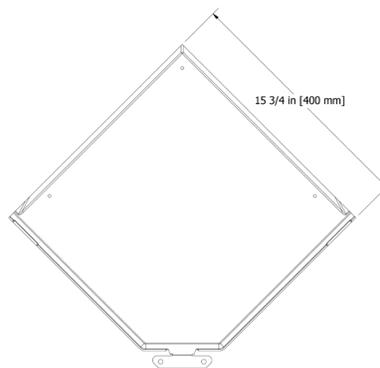
- Salt Spray: ASTM B 117
- Cyclic Salt Spray: ASTM D 5894 and ASTM D 5487
- Humidity Resistance: ASTM D 2247
- Accelerated Weathering: ASTM D 822 and ASTM G 155, ASTM G 151 or ASTM G 153
- Color Retention, Florida Exposure: ASTM D 2244
- Chalking Resistance: ASTM D 4214
- Cleveland Condensing Cabinet: 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 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
- Additional product information is available from the manufacturer upon request.

