



ATAS INTERNATIONAL, INC.

SPECIFICATION DATA SHEET

1. PRODUCT NAME

CASTLE TOP® HCT160

2. MANUFACTURER

ATAS INTERNATIONAL, INC.

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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 in 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 finish. (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 through seminars are available. Contact ATAS technical service advisors for information.

6. AVAILABILITY & COST

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

CASTLE TOP diamond-shaped shingles carry a thirty (30) year limited warranty.

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

- Sweet's Catalog
- Sweet's CD
- www.atas.com
- Additional product information is available from the manufacturer upon request.

