

# Technical Information Sheet



## APP 160

| Item Description  | Item Number |
|-------------------|-------------|
| 1 Roll (1 square) | W70APP0162  |

## DESCRIPTION

APP 160 is a smooth-surface APP modified bitumen membrane designed to be heat-welded. It consists of select asphalt, modified with atactic polypropylene, and strengthened with a fiber glass reinforced non-woven polyester mat [190 g/m<sup>2</sup> (3.9 lb/100 ft<sup>2</sup>)] made with 100 % recycled PET fibers. The combination results in a flexible and durable material that exceeds the performance requirements of ASTM D 6222 Type I, Grade S. APP 160 is strong and stable, and resistant to natural forces and other factors on the rooftop. It is ideal for both new construction and re-roofing applications as a base ply, cap sheet (with protective surfacing), or as a flashing sheet in single or multi-ply APP applications.

NOTE: Meets or exceeds performance requirements of ASTM D 6222, Type I, Grade S

| PRODUCT PACKAGING |                                          |                   |                        |
|-------------------|------------------------------------------|-------------------|------------------------|
| Property          | Value                                    | Property          | Value                  |
| Roll Width        | 3 ft 3 in (1 m)                          | Pallet Size       | 48 x 39 in (1.2 x 1 m) |
| Roll Length       | 32 ft 10 in (10 m)                       | Rolls Per Pallet  | 20                     |
| Net Coverage      | 98 ft <sup>2</sup> (9.1 m <sup>2</sup> ) | Weight per Pallet | 2,210 lb (1002.44 kg)  |
| Roll Weight       | 110.5 lb (50.12 kg)                      |                   |                        |

## METHOD OF APPLICATION

1. APP 160 must be installed by fully heat welding the membrane to an approved substrate.
2. Please reference the Elevate Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed information regarding the application of APP 160.

## ACCEPTABLE IMMEDIATE SUBSTRATES FOR HEAT-WELDED APPLICATION

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer).
- Approved Elevate Base Sheet.
- Existing Smooth Surface BUR or APP Modified Bitumen (must be clean, smooth and primed with ASTM D-41 primer).
- DensDeck® Prime, SECUROCK® Gypsum Fiber

**NOTE:** Please reference the Elevate Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed information regarding the type of deck and insulation in use.

## STORAGE

- All material should be stored out of the weather in a clean, dry area in its original unopened packaging at a minimum of 50 °F (10 °C) and a maximum of 100 °F (38 °C) so that it will be 50 °F (10 °C) or above at the time of application.
- Do not stack APP 160 membrane more than two (2) pallets high.
- If the material must be stored temporarily on the roof before application, it must be elevated from the roof surface on a pallet, stored on end, and covered from the weather with a light-colored opaque tarp in a neat, safe manner that does not exceed the allowable load limit of the storage area.

## PRECAUTIONS

- For safety information, refer to the Safety Data Sheet (SDS) for APP Membranes and Flashing.
- APP 160 membrane if used as a cap sheet, is required to have protective surfacing such as Elevate AcryliTop PC-100 (TIS 1601) Roof Coating.
- Take care when transporting and handling Holcim Modified Bitumen rolls to avoid punctures and other types of physical damage.
- Isolate waste products, petroleum products, grease, oil (mineral and vegetable) and animal fats from all Elevate Modified Bitumen membranes.
- Refer to Safety Data Sheets (SDS) for additional safety information.

## LEED® INFORMATION

|                                   |                 |
|-----------------------------------|-----------------|
| Post-Consumer Recycled Content:   | 8 %             |
| Post Industrial Recycled Content: | 0 %             |
| Manufacturing Location:           | Beech Grove, IN |



**NOTE:** LEED® is a registered trademark of the U.S. Green Building Council



**TYPICAL PROPERTIES - (Meets ASTM D 1622, Type I, Grade S)**

| Properties                                            | Test Method    | Performance Minimum                                 | Typical Performance                                  |
|-------------------------------------------------------|----------------|-----------------------------------------------------|------------------------------------------------------|
| Product Thickness                                     | D 5147         | 140 mil (3.5 mm)                                    | 154 mil (3.9 mm)                                     |
| Net Mass                                              | D 146          | 70 lb/100 ft <sup>2</sup> (3,418 g/m <sup>2</sup> ) | 102 lb/100 ft <sup>2</sup> (4,980 g/m <sup>2</sup> ) |
| Bottom Side Coating                                   | D 5147         | 30 mil (0.76 mm)                                    | 47 mil (1.20 mm)                                     |
| Peak Load at 73 °F (23 °C)                            | D 5147         | 50 lbf/in, MD (8.8 kN/m, MD)                        | 55 lbf/in, MD (9.6 kN/m, MD)                         |
|                                                       |                | 50 lbf/in, XMD (8.8 kN/m, XMD)                      | 55 lbf/in, XMD (9.6 kN/m, XMD)                       |
| Elongation at Peak Load at 73 °F (23 °C)              | D 5147         | 23 %, MD                                            | 30 %, MD                                             |
|                                                       |                | 23 %, XMD                                           | 30 %, XMD                                            |
| Peak Load at 0 °F (-18 °C)                            | D 5147         | 60 lbf/in, MD (10.5 kN/m, MD)                       | 65 lbf/in, MD (11.4 kN/m, MD)                        |
|                                                       |                | 60 lbf/in, XMD (10.5 kN/m, XMD)                     | 65 lbf/in, XMD (11.4 kN/m, XMD)                      |
| Elongation at Peak Load at 0 °F (18 °C)               | D 5147         | 10 %, MD                                            | 15 %, MD                                             |
|                                                       |                | 10 %, XMD                                           | 15 %, XMD                                            |
| Ultimate Elongation at 5 % of Peak Load 73 °F (23 °C) | D 5147         | 30 %, MD                                            | 40 %, MD                                             |
|                                                       |                | 30 %, XMD                                           | 40 %, XMD                                            |
| Tear Strength at 73 °F (23 °C)                        | D 5147, D 4073 | 70 lbf, MD (311 N, MD)                              | 75 lbf, MD (334 N, MD)                               |
|                                                       |                | 70 lbf, XMD (311 N, XMD)                            | 75 lbf, XMD (334 N, XMD)                             |
| Low Temperature Flexibility                           | D 5147         | 32 °F (0 °C)                                        | 32 °F (0 °C)                                         |
| Dimensional Stability                                 | D 5147, D 1204 | 1 % Change, MD                                      | 0.2 % Change, MD                                     |
|                                                       |                | 1 % Change, XMD                                     | 0.2 % Change, XMD                                    |
| Compound Stability                                    | D 5147         | 230 °F (110 °C)                                     | 270 °F (132 °C)                                      |
| Water Absorption                                      | D 5147, D 95   | 3.2 %                                               | 0 %                                                  |
| Moisture Content                                      | D 5147, D 95   | 1 %                                                 | 0 %                                                  |
| Low Temperature Unrolling                             | D 5636         | 41 °F (5 °C)                                        | 0 °F (-18 °C)                                        |

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