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ICC-ES Evaluation Report

ESR-1293

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Reissued 07/2018
This report is subject to renewal 07/2019.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 30 05—ROOFING FELT AND UNDERLAYMENT

REPORT HOLDER:

SYSTEM COMPONENTS CORPORATION

EVALUATION SUBJECT:

**FELTEX® (STYLE RX2) HIGH PERFORMANCE, FELTEX SA300® SELF-ADHERING,
COVERPRO, COVERPRO 1000, COVERPRO 2000 AND COVERPRO 3000 ROOFING
UNDERLAYMENTS**



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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Section: 07 30 05—Roofing Felt and Underlayment

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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical properties
- Ice barrier
- Fire classification

1.2 Evaluation to the following green code(s) and/or standards:

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 3.2

2.0 USES

FelTex® (Style RX2) High Performance CoverPro, CoverPro 1000, CoverPro 2000 and CoverPro 3000 roofing underlayments are used as alternatives to the ASTM D226, Type I and Type II, roofing underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC. The underlayments may be used as components of

classified assemblies when installed in accordance with Section 4.3.

FelTex SA300® Self-adhering Roofing Underlayment complies with ASTM D1970 and is used as an alternate to the ASTM D226, Type I and II, roofing underlayments specified in IBC Chapter 15 and IRC Chapter 9. The underlayment may also be used where an ice barrier is required by IBC Chapter 15 or IRC Chapter 9.

3.0 DESCRIPTION

3.1 FelTex® (Style RX2) High Performance Roofing Underlayment:

FelTex® (Style RX2) High Performance roofing underlayment is a cross-woven polypropylene roofing underlayments with a two-ply proprietary coating on one side. Total weight of the FelTex® (Style RX2) High Performance underlayment is 2.9 pounds per 100 square feet [4.1 oz./yd² (140 g/m²)]. Standard size for the underlayment rolls is 4 feet wide by 250 feet long (1.2 m by 76.2 m). Other roll sizes are available. FelTex® (Style RX2) High Performance Underlayment may also feature full-color custom-printing artwork as specified by the end user.

3.2 FelTex SA300® Self-adhering Roofing Underlayment:

FelTex SA300® Self-adhering Roofing Underlayment is a cross-woven polypropylene synthetic roofing underlayment with a proprietary, thermally stable, adhesive membrane backed with a release film. Total weight of the underlayment is 9.4 pounds per 100 square feet [13.7 oz./yd² (459 g/m²)]. Standard size for the underlayment rolls is 4 feet wide by 53.3 feet long (1.2 m by 16.2 m). Other roll sizes are available.

The attributes of the FelTex SA300® Self-adhering Roofing Underlayment has been verified as conforming to the provisions of (i) CALGreen Section A4.407.5; (ii) ICC 700-2015 and ICC 700-2012 Sections 602.1.13, 11.602.1.13 and 12.5.602.1.14; and (iii) ICC 700-2008 Section 602.10 for ice barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.3 CoverPro Roofing Underlayment:

CoverPro Roofing Underlayment is a woven polypropylene fabric coated on one side and laminated to polypropylene spun bond fabric. Total weight of the CoverPro underlayment is 1.9 pounds per 100 square feet

[2.8 oz/yd² (94 g/m²)]. The standard size for the underlayment rolls is 40 inches wide by 300 feet long (1.0 m by 91.4 m). Other roll sizes are available.

3.4 CoverPro 1000 Roofing Underlayment:

CoverPro 1000 Roofing Underlayment is a woven polypropylene fabrics coated on one side and laminated to polypropylene spun bond fabric. The nominal weight of the underlayment is 1.74 pounds per 100 square feet [2.51 oz/yd² (85 g/m²)]. Standard size for each roll is 40 inches wide by 300 feet long (1.0 m by 91.44 m). Other roll sizes are available.

3.5 CoverPro 2000 Roofing Underlayment:

CoverPro 2000 Roofing Underlayment is a four-layer material consisting of a top spunbond polymeric nonwoven layer, a second polymeric lamination layer, a third roswovwen textile layer and a fourth elastomeric layer. The nominal weight of the underlayment is 1.97 pounds per 100 square feet [2.83 oz/yd² (96 g/m²)]. Standard size for the underlayment roll is 40 inches wide by 300 feet long (1.0 m by 91.4 m). Other roll sizes are available.

3.6 CoverPro 3000 Roofing Underlayment:

CoverPro 3000 Roofing Underlayment is a woven polypropylene fabric coated on one side and laminated to polypropylene spun bond fabric. Total weight of the CoverPro 3000 underlayment is 2.2 pounds per 100 square feet [3.2 oz/yd² (108 g/m²)]. The standard size for the underlayment rolls is 40 inches wide by 300 feet long (1.0 m by 91.44 m). Other roll sizes are available.

4.0 INSTALLATION

4.1 FelTex® (Style RX2) High Performance, CoverPro, CoverPro 1000, CoverPro 2000 and CoverPro 3000 Roofing Underlayments:

Minimum roof slope is 2:12 (17% slope). For roof slopes from 2:12 (17%) up to but not including 4:12 (33%), where the roof is covered with asphalt shingles, two layers of underlayment must be applied in accordance with IBC Section 1507.2.8, 2015 IRC Sections R905.1.1 and R905.2.3 or 2012, 2009 and 2006 Section R905.2.7. For roof slopes from 2¹/₂:12 (21%) up to but not including 4:12 (33%), where the roof is covered with clay or concrete tiles, two layers of underlayment must be applied in accordance with IBC Section 1507.3.3.1, 2015 IRC Section R905.1.1 and R905.3.3 or 2012, 2009 and 2006 IRC Section R905.3.3.1. For slopes of 4:12 (33%) or greater, underlayment must be a minimum of one layer applied shingle fashion. The deck surface must be dry and free of dust, dirt, loose nails and other protrusions. Damaged sheathing must be replaced. The underlayment is laid horizontally (parallel to the eave) with the print side up, and with 4-inch (102 mm) horizontal and 6-inch (152 mm) vertical laps. Overlaps must run with the flow of water in a shingling fashion. The underlayment must be attached to the roof deck with a minimum of No. 12 gage [0.109 inch shank diameter (2.77 mm)], corrosion-resistant steel roofing nails having minimum ³/₈-inch-diameter (9.5 mm) heads; or minimum 1-inch-diameter (25.4 mm) plastic caps; or No. 16 gage [0.065 inch leg diameter (1.65 mm)] corrosion-resistant staples having minimum ⁷/₁₆-inch crowns (11.1 mm). The underlayment must be fastened in accordance with the underlayment application and high wind attachment requirements specified in IBC Section 1507, 2012, 2009 and 2006 IRC Section R905 or 2015 IRC Section R905.1.1, as applicable.

For roofs required to have an ice barrier, two layers of FelTex® (Style RX2) High Performance, CoverPro, CoverPro 1000, CoverPro 2000 or CoverPro 3000 roofing

underlayment cemented together with a roofing cement complying with ASTM D4586; or one layer of self-adhering polymer modified bitumen sheet complying with ASTM D1970, such as FelTex SA300® self-adhering roofing underlayment; or one layer of an ice barrier complying with the ICC-ES Acceptance Criteria for Self-adhered Roof Underlayments for Use as Ice Barriers (AC48), must be applied. The underlayment must be applied over the solid substrate in sufficient courses that the underlayment extends from the eave's edge to a point at least 24 inches (610 mm) inside the exterior wall line of the building. The underlayment applied in the field of the roof must overlap the ice barrier.

Installation of the roof covering can proceed immediately following the underlayment application. The underlayment is not intended to be left indefinitely exposed and must be covered by a roof covering in accordance with the report holder's published installation instructions. For reroofing applications, after removal of the old roof covering and roofing felts to expose the roof deck, the same procedures apply as for new construction.

4.2 FelTex SA300® Self-adhering Roofing Underlayment:

Prior to application of the underlayment, the deck surface must be free of frost, dust and dirt, loose fasteners, and other protrusions. Damaged sheathing must be replaced. The underlayment must be applied to plywood or oriented strand board (OSB) substrates only when the ambient air and substrate temperatures are above freezing.

Starting with a full roll of the membrane, a portion of the membrane approximately 3 to 6 feet long (0.9 to 1.83 m) is unrolled with the release liner left in place. While unrolling, the upper release liner is removed and the roll is aligned parallel to the eave of the roof and placed firmly in place with heavy hand pressure. The subsequent courses of membrane are applied parallel to the eave from the lower edge of the roof upward in a shingle-lap manner. Side (horizontal) laps must be a minimum of 3 inches (76 mm) and end (vertical) seams must be overlapped a minimum of 6 inches (152 mm).

In areas of the roof required to have an ice barrier under Chapter 15 of the IBC or Chapter 9 of the IRC, starting at the lower edge of the roof eave, the roofing underlayment is applied over the solid substrate so that the underlayment extends up from the eave's edge to a point at least 24 inches (610 mm) inside the exterior wall line of the building. Following placement along the lower edge, the membrane may be installed either vertically or horizontally. If the membrane becomes misaligned, the roll must be cut and restarted. Damage and fishmouths must be slit, pressed flat and covered with a round patch of membrane that extends beyond the damaged area by a minimum of 6 inches (152 mm) in all directions. Flashing around protrusions is installed over the membrane to prevent water backup. Other flashing must be installed in accordance with the applicable code.

Installation of the final roof covering can proceed immediately after installation of the underlayment is completed. The underlayment is not intended to be left indefinitely exposed and must be covered by the final roof covering as soon as possible in accordance with the report holder's published installation instructions.

4.3 Classified Roofs:

Under the 2015, 2012 and 2009 IBC and IRC, the FelTex® (Style RX2) High Performance, CoverPro, CoverPro 1000, CoverPro 2000 and CoverPro 3000 roofing underlayments may be used as components of classified roof assemblies

consisting of Class A glass fiber mat asphalt shingles or Class C organic felt asphalt shingles complying with the applicable code, when installed in accordance with this report over a minimum ¹⁵/₃₂-inch-thick (11.9 mm) plywood deck .

Under the 2006 IBC, the FelTex[®] (Style RX2) High Performance, CoverPro, CoverPro 1000, CoverPro 2000 and CoverPro 3000 underlayments may be used in Class A or Class B roof assemblies that utilize the roof coverings specified in the exception to Sections 1505.2 and 1505.3. Under the 2006 IRC, FelTex[®] (Style RX2) High Performance, CoverPro, CoverPro 1000, CoverPro 2000 and CoverPro 3000 underlayments may be used with roof coverings of brick, masonry, slate, clay or concrete roof tile, concrete roof deck, ferrous or copper shingles or sheets, and metal sheets and shingles where such roof coverings are permitted to be used in lieu of a Class A assembly under Section R902.1.

5.0 CONDITIONS OF USE

The FelTex[®] (Style RX2) High Performance, CoverPro, CoverPro 1000, CoverPro 2000 CoverPro 3000 Roofing Underlayments and FelTex SA300[®] Self-adhering Roofing Underlayment described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation must comply with this report, the report holder's published installation instructions and the applicable code. A copy of the report holder's published installation instructions must be available to the code official at the jobsite. In the event of conflict between this report and the report holder's installation instructions, this report governs.
- 5.2 Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters, or to use with approved roof coverings that are mechanically fastened to battens or counterbattens that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.3 Installation is limited to roofing systems that do not involve hot asphalt or coal-tar pitch.
- 5.4 Installation is limited to roofs with a slope of 2:12 (17%) or greater.
- 5.5 Installation is limited to roofs with ventilated attic spaces.
- 5.6 FelTex SA300[®] Self-adhering Roofing Underlayment is limited to structures located in areas where nonclassified roof coverings are permitted.

5.7 FelTex SA300[®] Self-adhering Roofing Underlayment must not be installed when frost is present on the roof deck.

5.8 FelTex SA300[®] Self-adhering Roofing Underlayment installation is limited to plywood and oriented strand board (OSB) substrates.

5.9 FelTex[®] (Style RX2) High Performance, FelTex SA300[®] Self-adhering, CoverPro, CoverPro 1000, CoverPro 2000 and CoverPro 3000 roofing underlayments are manufactured under a quality control program with inspections by ICC Evaluation Service, LLC.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012, (editorially revised December 2015), for FelTex[®] (Style RX2) High Performance, CoverPro, CoverPro 1000, CoverPro 2000 and CoverPro 3000 Roofing Underlayments and FelTex SA300[®] Self-adhering roofing underlayment.

6.2 Data in accordance with the ICC-ES Acceptance Criteria for Self-adhered Roof Underlayments for Use as Ice Barriers (AC48), dated February 2012 (editorially revised December 2015), for FelTex SA300[®] Self-adhering roofing underlayment; including liquid water transmission testing in accordance with ASTM D4869, Section 8.3.

6.3 Reports of testing in accordance with ASTM E108 for FelTex[®] (Style RX2) High Performance, CoverPro, CoverPro 1000, CoverPro 2000 and CoverPro 3000 roofing underlayments.

7.0 IDENTIFICATION

7.1 The FelTex[®] (Style RX2) High Performance, CoverPro, CoverPro 1000, CoverPro 2000 and CoverPro 3000 Roofing Underlayments and FelTex SA300[®] Self-adhering Roofing Underlayment are marked at 48-inch (1.22 m) intervals with the product name. Each roll of the product must be labeled with the System Components Corporation name, the product name, the manufacturing date code, and the evaluation report number (ESR-1293).

7.2 The report holder's contact information is the following:

SYSTEM COMPONENTS CORPORATION
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