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PRODUCT(s): Raptor SA

REPORT HOLDER: Reese Central Wholesale, Inc.

CONTACT DETAILS: 1155 E 54th St.
Indianapolis, IN
46220 USA
www.reesewholesale.com

CSI DIVISIONS: 07 00 00 – Thermal and Moisture Protection

CSI SECTION: 07 30 05 – Roofing Felt and Underlayment

APPLICABLE CODES: 2024, 2021, 2018, 2015 International Building Code (IBC)
2024, 2021, 2018, 2015 International Residential Code (IRC)
2023 Florida Building Code (FBC)

EVALUATED: Physical Properties
Roof Fire-Classification



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CODE EVALUATION REPORT

1.0 APPROVED FOR FOLLOWING:

APPROVED TYPES OF CONSTRUCTION:	Type IAB, Type IIAB, Type IIIAB, Type IV, Type VAB
APPROVED USE:	Roofing underlayment for use in Class A roof assemblies on new and over existing roofs in Types I-V construction.
APPROVED INSTALLATIONS:	Roofs including fire-classified roof assemblies.

2.0 DESCRIPTION:

2.1 General:

Reese Central Wholesale Raptor SA is a self-adhered underlayment composed of a woven polypropylene fabric that includes spun bond fabric adhered to the top side (exterior facing) and a non-skid coating on the bottom side. This product has a nominal weight of 3.5 ounces per square yard (118 g/m²). The non-skid coated side is covered with a butyl adhesive and a silicone-coated release liner. Raptor SA is intended for installation on roof slopes \geq 2:12 (17%) or new or existing roof construction.

Raptor SA underlayment conforms to Section 1507.1.1 of the 2024/2021/2018 IBC and Section 905.1.1 of the 2024/2021/2018/2015 IRC as an ASTM D1970 compliant self-adhered underlayment. Raptor SA complies as an alternative to prescriptive underlayment outlined in Section 1507.2.3 of the 2015 IBC.

Raptor SA underlayment is approved for use in Class A roof-fire classified assemblies in accordance with Section 1404.1 of the 2024/2021/2018/2015 IBC and Section R902 of the 2024/2021/2018/2015 IRC. See Section 4.4 and 8.1 of this report for additional details

Table 1: RAPTOR SA UNDERLAYMENT ROLL DIMENSIONS

PRODUCT	LENGTH		WIDTH		PRODUCT WEIGHT	
	feet	m	inches	cm	oz/yd ²	g/m ²
Raptor SA	133	41	36	91	11.5	391
	80	24	60	152		
	100	30	18	46		

Alternate dimensions can be available on request.

Raptor SA underlayment complies with the 2023 FBC including areas designated as *High Velocity Hurricane Zones*. See Section 9 of this report for further details.



3.0 DESIGN:

Use of Raptor SA underlayment does not require design. Raptor SA underlayment product outlined in this report is intended for installation on new or existing roof construction of roof slopes $\geq 2:12$ (17%). Raptor SA is intended for installation over code complying roof construction in accordance with the applicable code, including but not limited to sheathing, flashings and roof coverings

When used in applications requiring roof fire-classified assemblies, installation shall conform to Section 4.4 and Section 8.1 Table 2 of this report.

4.0 INSTALLATIONS:

4.1 General:

The installation of Raptor SA underlayment product must comply with the manufacturer's published installation instructions, this report and the applicable code(s). Where differences are found between documents, this report and the applicable building code shall govern.

The Raptor SA underlayment product is intended for installation at minimum 2:12 (17%) roof slope. The Raptor SA underlayment is intended for installation over solid sheathing installed in accordance with the governing code. Alternate installations are outside the scope of this report.

Prior to installation of Raptor SA underlayment product, the roof deck is to be inspected to ensure the surface is free of frost, dust and dirt, loose nails, and other protrusions. Damage is to be corrected before the installation of the underlayment products.

When used in reroofing applications, the same installation guidelines of Section 4.2 apply once the existing roof coverings and original underlayment have been removed to expose the roof deck surface. If any sheathing is damaged, it must be replaced prior to underlayment installation.

4.2 New Construction:

The underlayment should be installed with the print facing up. The underlayment is laid out horizontally (parallel) to the eave, starting at the lowest eave point. For standard applications, fasteners are spaced 8-inches (203 mm) in center along the top, bottom, and side laps. The fasteners used shall be a minimum corrosion-resistant roofing nails having a minimum 1-inch diameter plastic cap. Fasteners should be long enough to penetrate through the sheathing or a minimum of $\frac{3}{4}$ -inch (19.1 mm) into solid decking.

Horizontal head laps shall be a minimum of 4-inches (102 mm) overlap running with the flow of water in a shingle fashion. The vertical end laps shall be a minimum of 10-inches (254 mm) overlap.

In areas subject to high winds, underlayment fastening must comply with the high-wind attachment requirements specified in IBC Section 1507 or IRC Section R905.

While not required, drop edge flashings and rake edge flashings are recommended to be installed in accordance with good roofing practice. For installation of flashing, the first row of fasteners should be placed 3-inches (76 mm) up from the eave so that the metal edging can be slipped under the underlayment before nailing. All flashing must be in accordance with the applicable code. Flashing around protrusions must be over the lower course of underlayment and under the upper course of the underlayment.



4.3 Ice Barrier:

Raptor SA may be used in areas where there is the potential for or has been a history of ice forming along eaves, causing the backup of water and an ice barrier is required in accordance with Chapter 15 of the IBC or Chapter 9 of the IRC. The Raptor SA underlayment is to extend from the lowest edge of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the structure. The Raptor SA underlayment shall be lapped over the ice barrier a minimum of 4 inches (102 mm). The ice barrier is to be installed in accordance with Section 4.2 of this report.

4.4 Roof Fire-Classified Assemblies:

The Raptor SA underlayment is an approved component of a roofs fire-classified assembly consisting of Class A asphalt glass fiber mat shingles. Asphalt shingles are to comply with the applicable code with installation in accordance with this report over a minimum of 15/32-inch-thick (11.9 mm) plywood sheathing. See Section 8.1 Table 1 for installation details.

5.0 LIMITATIONS

- Installation of Raptor SA underlayment is to comply with the applicable codes, this report, and the manufacturer's installation instructions. Where differences are found between documents, the applicable code and this report shall be followed.
- Raptor SA underlayment is intended for use on roof slopes $\geq 2:12$. Use on slopes $< 2:12$ are outside the scope of this report and shall be approved by the authority having jurisdiction.
- Raptor SA underlayment is limited to use with roof coverings that do not involve hot work. The noted products are not intended for hot mop applications.
- Raptor SA is limited to applications where the in-service temperature of the membrane surface will not exceed 240°F (115.5°C)
- Raptor SA underlayment is limited to installations on solid substrates complying with the applicable code. Raptor SA underlayment products are not intended for installation over spaced sheathing.
- Raptor SA underlayment is intended for installation on roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- Raptor SA where used in Class A roof-fire classified assemblies, installation is to be in accordance with Section 4.4 and 8.1 of this report.
- Raptor SA underlayment is manufactured in Fallsington, PA, with inspections by QAI Laboratories.

6.0 SUPPORTING INFORMATION:

The following data has been evaluated for Reese Central Wholesale Self-Adhered Underlayment:

- Data for use in roof fire classified assemblies determined in accordance with ASTM E108 *Fire Tests of Roof Coverings*.
- Data outlining compliance with Section 1507.1.1 of the 2024/2021/2018/2015 IBC and Section R905.1.1 of the 2024/2021/2018/2015 IRC.
- Data outlines compliance with Section 1507.1.1 of the 2023 Florida Building Code.

7.0 MARKING:

Reese Central Wholesale Self-Adhered Underlayment product includes the the following information on the product label:

- Product Name.
- Manufacturer.
- Country of Manufacture.
- QAI CER_{US}-1056
- QAI Certification Mark shown below:



Figure 1. Reese Central Wholesale Raptor SA Finished Product Label



CODE EVALUATION REPORT

8.0 RESULTS / RATINGS:

8.1 Roof Fire-Classified Assemblies

Table 2 – Roof Fire-Classified Assemblies

System	Sheathing ¹	Approved Underlayment ²	Roof Covering ³	Installation Guidelines	Roof-fire Classification
New Construction Or Reroof when existing roof is removed	Minimum 15/32-inches (12 mm) thickness exposure rated plywood	Raptor SA	Class A asphalt glass fiber mat shingles	See Section 4.1 and 4.2	A

1. Sheathing noted is minimum thickness. Increased thickness is permitted.
2. Sheathing type and installation is to comply with the applicable code for expected service conditions. Sheathing selection and installation is outside the scope of this report.
3. Underlayment installation is to comply with Section 4.1 and 4.2 of this report the applicable code and the manufacturer's installation instructions, including anchorage and minimum overlaps.
4. Roof coverings are to be listed and bear the label of an *approved agency* as a Class A roof covering.



9.0 SUPPLEMENTAL CODES

9.1 2020 and 2023 Florida Building Code:

Raptor SA underlayment product as detailed in Section 2.0 through 8.0 of QAI CER_{US}-1056 comply with Section 1507.1.1 *Underlayment* of the 2023 Florida Building Code as ASTM D1970 complying self-adhered underlay when installed in accordance with the applicable building codes and this report.

Raptor SA underlayment is approved for use in Class A roof-fire classified assemblies in accordance with Section 1505 of the 2023 FBC when installed in accordance with Section 4.4 and Section 8.1 Table 1 of this report.

Raptor SA underlayment complies Section 1518.2 of the 2023 FBC for use in areas defined as *High Velocity Hurricane Zones* as compliant self-adhered underlayment material meeting ASTM D1970, where installed on slopes $\geq 2:12$ (17%) when installed in accordance with this report and Section 1518 of the 2023 FBC.

10.0 ELIGIBILITY OF REPORT

QAI's Code Evaluation Report complies with the 2024 IBC Section 104.2.3.6.1 *Evaluation Reports* and the 2021 / 2018 / 2015 IBC Section 104.11 *Alternative materials, design and methods of construction and equipment* subsection 104.11.1 *Research Reports*. Supporting data has been evaluated by QAI for compliance of the noted materials and assemblies to the applicable code by QAI, and *approved* source as detailed below.

The attached report has been reviewed by a QAI Registered Professional Engineer approved by the specific state Board of Professional Engineers noted on the specific P.E. seal(s).

Per section 1703 of the IBC, QAI is an independent third-party testing, inspection and certification agency accredited by the International Accreditation Service, Inc. (IAS) for this specific scope (see IAS PCA-118). QAI can confirm that based on its IAS accreditation it meets IBC Section 1703.1 on Independence, Section 1703.1.2 on Equipment and Section 1703.1 on Personnel.

This Evaluation report has been designed to meet the performance requirements of IBC Section 1703.4 and contains the required information to show the product, material or assembly meets the applicable code requirements.

The product is labeled per section IBC 1703 and subject to follow-up inspection per IBC 1703.6 using QAI IAS accredited ISO/IEC 17020 inspection program (see IAS AA-723).

For more information regarding QAI Laboratories, please visit www.qai.org.



The above is an example of the QAI registered Listing mark. The Listing mark may only be used by the Report Holder per the QAI service agreement on products defined in this report. The 'us' indicator in the 8 o'clock position indicates the product complies with the properties evaluated with limitations outlined in this report for use in the US market. A 'c' indicator in the 4 o'clock position indicates the product has been evaluated for use in the Canadian market.

11.0 REFERENCED STANDARDS

ASTM E108 *Standard Test Methods for Fire Tests of Roof Coverings*.

ASTM D1970 *Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection*.

