

Issue Date: 02-24-2023
Revision Date: 10-20-2026
Renewal Date: 10-31-2027

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION

Section: 07 30 05 – Roofing Felt and Underlayment

REPORT HOLDER:

Continental Materials Inc.
1614 Old York Road,
Abington, PA 19001
www.continentalmaterials.com

REPORT SUBJECT:

XWW PRO, SG PRO, SG30, SG Plus, Ranger 30, Ranger Pro, SG MAX, Ranger Max, and Max MTS Synthetic Roofing Underlayments

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, and 2018 *International Building Code*® (IBC)
- 2024, 2021, and 2018 *International Residential Code*® (IRC)
- 2026, 2023 *Florida Building Code* (FBC)

1.2 The underlayments have been evaluated for the following properties (see Table 1):

- Physical Properties
- Ice Barrier
- Fire Classification

1.3 The underlayments have been evaluated for the following uses (see Table 1):

- Under the 2024 IBC and IRC, the underlayments may be used in the field of roofs where ASTM D8257-compliant underlayments are required as specified in IBC Chapter 15 and IRC Chapter 9.
- Under the 2021 and 2018 Codes, the underlayments may be used as an alternative to the ASTM D226, Type I and Type II, roofing underlayments specified in IBC Chapter 15 and IRC Chapter 9.
- In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier as described in Section 4.2 of this report.

- As a component of a classified assembly when installed as described in Section 4.1 of this report.

2.0 STATEMENT OF COMPLIANCE

XWW PRO, SG PRO, SG30, SG Plus, Ranger 30, Ranger Pro, SG MAX, Ranger Max, and Max MTS underlayments comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

3.0 DESCRIPTION

XWW PRO is a mechanically attached synthetic underlayment comprised of a cross-woven polymeric base scrim laminated onto a non-woven scrim or textured embossed non-woven scrim and a polymer coating on the back side. The underlayment has a nominal weight of 2.25 lbs. per 100 square feet, and it is available in rolls measuring 48 inches wide by 250 feet long. Custom size of the rolls is also available. XWW PRO is also labeled as SG PRO, SG30, SG Plus, Ranger 30, and Ranger Pro.

Max MTS is a mechanically attached synthetic underlayment comprised of a cross-woven polymeric base scrim laminated onto a non-woven scrim or textured embossed non-woven scrim and a polymer coating on the back side. The underlayment has a nominal weight of 3.58 lbs. per 100 square feet, and it is available in rolls measuring 48 inches wide by 250 feet long. Custom size of the rolls is also available.

SG MAX is a mechanically attached synthetic underlayment comprised of a cross-woven polymeric base scrim laminated onto a textured embossed non-woven scrim and a polymer coating on the back side. The underlayment has a nominal weight of 3.27 lbs. per 100 square feet, and it is available in rolls measuring 48 inches wide by 250 feet long. Custom size of the rolls is also available. SG MAX is also labeled as Ranger Max.





4.0 PERFORMANCE CHARACTERISTICS

4.1 Fire Classification: When installed in accordance with the assembly described in Table 2 of this report, the roofing underlayments meets Class A fire classification per ASTM E108. Additionally, the underlayments may be used as follows:

- As a component of a classified roof assembly when specifically recognized as such in a Listing Report approved by the Code official.
- As an alternative to the underlayment specified in the Code for roof coverings permitted under Exceptions 1 - 4 to IBC Section 1505.2 and Exceptions 1 - 4 to IRC Section R902.1.
- Where non-classified roofing is permitted in IBC Section 1505.5.

4.2 Ice Barrier: In areas of the roof required by IBC Section 1507.1.2 or IRC Section R905.1.2 to have an ice barrier, two layers of the roofing underlayments solidly cemented together may be used provided the ice barrier extends up the roof a minimum distance of 24 inches inside the exterior wall line of the building.

4.3 Vapor Permeability: The underlayments have a permeance of 0.68 perms, based on testing in accordance with ASTM E96.

5.0 INSTALLATION

5.1 General: XWW PRO, SG PRO, SG30, SG Plus, Ranger 30, Ranger Pro, SG MAX, Ranger Max, and Max MTS underlayments must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

The underlayments may be installed with the roof coverings specified in IBC Table 1507.1.1(1) and IRC Table R905.1.1(1), where ASTM D8257-compliant underlayments are permitted. The underlayments must be installed in accordance with IBC Table 1507.1.1(2) and

IRC Table R905.1.1(2) and fastened in accordance with IBC Table 1507.1.1(3) and IRC Table R905.1.1(3). The underlayments must be laid with the print side up, with laps as required by the applicable Code, evaluation report, or manufacturer's instructions, whichever is more restrictive.

The roof covering may be installed immediately following the underlayments application, and the underlayments must be covered within the time designated in the report holder's published installation instructions.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Installation of underlayments with adhered roofing systems is outside the scope of this report.

6.3 Installation is limited to roofs with a slope of 2:12 (17%) or greater.

6.4 Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayment.

6.5 XWW PRO, SG PRO, SG30, SG Plus, Ranger 30, Ranger Pro, SG MAX, Ranger Max, and Max MTS underlayments are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with ASTM D8257 and ASTM E108.

7.2 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised December 2015).

7.3 Intertek Listing Report "CMI Synthetic Roofing Underlayments", on the [Intertek Directory of Building Products](#).





8.0 IDENTIFICATION

XWW PRO, SG PRO, SG30, SG Plus, Ranger 30, Ranger Pro, SG MAX, Ranger Max, and Max MTS underlayments are identified with the manufacturer's name, the product name, the Intertek Mark as shown below, the Intertek Control Number and the Code Compliance Research Report number (CCRR-0489).



9.0 OTHER CODES

9.1 Florida Building Code: XWW PRO, SG PRO, SG30, SG Plus, Ranger 30, Ranger Pro, SG MAX, Ranger Max, and Max MTS underlayments, described in Sections 2.0 through 7.0 of this Research Report, comply with the *Florida Building Code – Building* and *Florida Building Code – Residential*, for the editions indicated in Section 1.1 of this report, subject to the following conditions:

9.1.1 For Use Outside HVHZ: The underlayments may be installed with the roof coverings specified in FBC (Building) Table 1507.1.1.1 and FBC (Residential) Table R905.1.1.1, where ASTM D8257-compliant underlayments are permitted. The underlayments must be installed in accordance with the provisions of FBC (Building) Section 1507 and FBC (Residential) R905.

When installed as described in Table 2 of this report, the roofing assembly meets Class A fire classification per ASTM E108. Additionally, the underlayments may be used as follows:

- As a component of a classified roof assembly when specifically recognized as such in a Listing Report approved by the Code official.
- As an alternative to the underlayment specified in the Code for roof coverings permitted under Exceptions 1 - 4 to FBC (Building) Section 1505.2 and Exceptions 1 - 4 to FBC (Residential) Section R902.1.
- Where non-classified roofing is permitted in FBC (Building) Section 1505.5.

9.1.2 For Use Inside HVHZ: The underlayments may be installed with the roof coverings specified in FBC (Building) Table 1518.2.1, where ASTM D8257-compliant underlayments are permitted. The underlayment must be installed in accordance with the provisions of FBC (Building) Section 1518. Evaluation for use with discontinuous roof tile systems in HVHZ is outside the scope of this report.

When installed as described in Table 2 of this report, the roofing assembly may be used where Class A fire classification is required in FBC (Building) Section 1516.2.1. Additionally, the underlayments may be used with roof coverings permitted under the Exception to FBC (Building) Section 1516.2.1.

9.1.3 Fasteners in Saltwater Environments (2026 FBC):

Use of the roofing underlayments within 3000 feet of a saltwater coastline requires use of galvanized or stainless steel fasteners in accordance with Section 1711 of the 2026 FBC-Building and Section R332 of the 2026 FBC-Residential, as applicable.

Use of the roofing underlayments within 300 feet of a saltwater coastline requires use of stainless steel fasteners in accordance with Section 1711 of the 2026 FBC-Building and Section R332 of the 2026 FBC-Residential, as applicable.

Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – Product Evaluation and Approval.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.





TABLE 1 – PROPERTIES EVALUATED

PROPERTY	APPLICABLE CODE SECTIONS ¹			
	2024 IBC SECTION	2024 IRC SECTION	2026 FBC (BUILDING)	2026 FBC (RESIDENTIAL)
Physical Properties	1507	R905	1507, and 1518.2	R904 and R905
Ice Barrier	1507.1.2	R905.1.2	N/A	N/A
Fire Classification	1505	R902.1	1505 1516.2	R902

¹Section numbers may be different for earlier versions of the International and Florida Codes

TABLE 2 – FIRE CLASSIFICATION

Classification and Slope	Deck	Underlayment	Roof Covering
Class A 2:12 or greater	Minimum nominal 3/8 in. thick code compliant exterior grade plywood	A single layer of XWW PRO, SG PRO, SG30, SG Plus, Ranger 30, Ranger Pro, SG MAX, Ranger Max, or Max MTS underlayment mechanically fastened to the plywood every 18" oc using T50 staples.	Asphalt shingles Listed per ASTM D3462 with a minimum weight of 180 pounds per 100 square feet installed per manufacturer's installation instructions.

This Code Compliance Research Report ("Report") is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Report. Only the Client is authorized to permit copying or distribution of this Report and then only in its entirety, and the Client shall not use the Report in a misleading manner. Client further agrees and understands that reliance upon the Report is limited to the representations made therein. The Report is not an endorsement or recommendation for use of the subject and/or product described herein. This Report is not the Intertek Listing Report covering the subject product and utilized for Intertek Certification and this Report does not represent authorization for the use of any Intertek certification marks. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.



545 E. Algonquin Road • Arlington Heights • Illinois • 60005
intertek.com/building

