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EVALUATION REPORT

Applicant File Number: B1092
Report Number: B1092-1 Edition 7

Applicant: Lesley Gustafson
Global Environmental Manufacturing (G.E.M.) dba Euroshield
9330 48th Street SE
Calgary, AB
T2C 2R2 Canada

Edition 7: November 24, 2022
Application Number: B1092-Edition 7 – Burnaby Office.
Issued by: Matt Lansdowne, P.Eng., VP of Certification & Engineering
Reviewed by: Kent Adamson, President
Contents: Pages 1 through 12

SUMMARY OF EDITION: Update to include Beaumont Shake HP and Vermont Slate Loc HP products of identical formulation, only thicker cross section, to CERus-1014 and UL 2218 hail impact based on increased wind uplift and impact resistance. Roof-fire classification for these products is not included due to increased fuel load.

Removal of discontinued products per client request.

APPLICABLE REQUIREMENTS:

ASTM E108-20a	*Standard Test Methods for Fire Tests of Roof Coverings*.
CAN/ULC S107-19	*Methods of Fire Tests of Roof Coverings*.
UL 2218-20	*Standard for Impact Resistance of Prepared Roof Covering*
2024 / 2021 / 2018 / 2015	*International Building Code.*
2024 / 2021 / 2018 / 2015	*International Residential Code.*
2023	*Florida Building Code*

SUBJECT:

EUROSHIELD® ROOF COVERING PRODUCTS: Ranchlands Shake, Rundle Slate, Beaumont Shake, Beaumont Shake HP, Vermont Slate Loc, Vermont Slate Loc HP.

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Manufacturing and Labeling Location	Contact Person
G.E.M. Inc. 9330 48th Street SE Calgary, AB T2C 2R2 Canada	**Salah Sukareye** Phone: +1-403-215-3333 Email: salah@euroshieldroofing.com

MODELS:

Euroshield® rubber roof covering products:

- Ranchlands Shake (formerly known as EuroShake)
- Rundle Slate (formerly known as EuroSlate)
- Beaumont Shake
- Vermont Slate Loc
- Beaumont Shake HP
- Vermont Slate Loc HP

Impact resistance ratings per UL 2218 and fire classification ratings per ASTM E108 and CAN/ULC S107 are outlined in the Tests section of this Evaluation Report.

CONDITIONS OF ACCEPTANCE:

1. The manufacturer's compliance label must be placed on each unit prior to application of the $_{C}$QAI$_{US}$ mark.

2. Installation instructions and / or application manuals are provided with products covered under this evaluation report.

3. Final acceptance of the product in the intended application is to be determined by the Authority Having Jurisdiction (AHJ).

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MARKINGS:

Listed products are identified with a label bearing the following information:

Certification Label (Figure 1)

- Manufacturer's Name
- Product Name
- Date of Manufacture
- QAI logo with 'c' and 'us' identifier
- QAI Listing number (B1092)
- QAI Code Evaluation Report CER_{US}-1013
- CAN/ULC S107 and ASTM E108 Fire Classification (Class C)
- UL 2218 Impact Classification (Class IV)

Figure 1: Example Finished Product Label.

ALTERATIONS:

None.

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FACTORY TESTS:

Refer to File B1092-1, Factory Inspection Procedure (FIP) Manual, file # QGEM-001Rev9 signed September 10, 2025.

WARNING: The factory tests specified may present a hazard of injury to personnel and / or property and should only be performed by persons knowledgeable of such hazards and under conditions designed to minimize the possibility of injury.

DESCRIPTION:

Refer to File Factory Inspection Procedure (FIP) Manual, file # QGEM-001Rev9 signed September 10, 2025 for additional details.

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CAN/ULC S107 and ASTM E108 Class C Roofing Application: Unlimited slope

System	Substrate	Approved Underlayment	Approved Roof Coverings	Installation Guidelines	Roof Classification
New Construction Or Reroof when existing roof is removed[1]	Minimum 15/32-inch-thick plywood	1: 2 layers of ASTM D226 Type II asphalt felt installed over the sheathing with offset joints minimum 6-inches (152 mm). 2: Install ASTM D226 Type II felt of 4'' width over all sheathing joints. Following, apply a full layer underlayment covering joint treatment and sheathing, with underlayment joints offset from sheathing joint treatment a minimum of 6-inches (152 mm).	Ranchland Shake, Rundle Slate, Beaumont Shake, and Vermont Slate Loc	See CERus-1013 Sections 4.1, 4.2, 4.3	C

Note 1: *Underlayment and roof covering products are to be installed with mechanical fasteners in accordance with the manufacturer's published installation instructions. Self-adhering or adhesive applied underlayment installations are outside the scope of this listing.*

Note 2: *Underlayment shall be a listed ASTM D226 complying Type II felt underlay.*

UL 2218 Impact Resistant Class IV Roofing Application: Unlimited slope

SHEATHING	UNDERLAYMENT	APPROVED ROOF COVERING(s)	CLASSIFICATION
Minimum 15/32'' (12 mm) Exposure 1 Plywood	Unrestricted	Ranchlands Shake Rundle Slate Beaumont Shake Beaumont Shake HP Vermont Slate Loc Vermont Slate Loc HP	IV (4)

TESTS:

- Testing to UL 2218 was performed by Southwest Research Institute (SwRI) in accordance with their IAS accreditation to ISO 17025, see IAS accreditation # TL-214.
- Testing to ASTM E108 and UL 2218 was performed by QAI Laboratories Inc. in accordance with their IAS accreditation to ISO 17025, see IAS accreditation # TL-220.

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The testing results for the noted products are outlined in the following reports:

Assembly / Products	Test Report	Assembly Details	Class
Harvest Shake **(formerly Eurolite Shake)**	SwRI Test Report 01.16052.01.207 a dated May 21, 2012	Deck: • 15/32" 4-ply A-C grade plywood decking on a 2" x 4" wood batten frame Underlayment: • 15-lb asphalt saturated organic felt fastened only as necessary to hold in place with staples Roof Covering: • Euroshield EuroLite Shake panels nailed down with standard roofing nails placed only as necessary	UL 2218-10 Class IV Compliant
Granville Slate **(formerly Heritage Slate and Eurolite Slate)**	SwRI Test Report 01.16052.01.207 b dated May 21, 2012	Deck: • 15/32" 4-ply A-C grade plywood decking on a 2" x 4" wood batten frame Underlayment: • 15-lb asphalt saturated organic felt fastened only as necessary to hold in place with staples Roof Covering: • Euroshield EuroLite Slate panels nailed down with standard roofing nails placed only as necessary	UL 2218-10 Class IV Compliant
Ranchlands Shake **(formerly EuroShake)**	SwRI Test Report 01.16052.01.207 c dated May 21, 2012	Deck: • 15/32" 4-ply A-C grade plywood decking on a 2" x 4" wood batten frame Underlayment: • 15-lb asphalt saturated organic felt fastened only as necessary to hold in place with staples Roof Covering: • Euroshield EuroShake panels nailed down with standard roofing nails placed only as necessary	UL 2218-10 Class IV Compliant
Rundle Slate **(formerly EuroSlate)**	SwRI Test Report 01.16052.01.207 d dated May 21, 2012	Deck: • 15/32" 4-ply A-C grade plywood decking on a 2" x 4" wood batten frame Underlayment: • 15-lb asphalt saturated organic felt fastened only as necessary to hold in place with staples Roof Covering: • Euroshield EuroSlate panels nailed down with standard roofing nails placed only as necessary	UL 2218-10 Class IV Compliant

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Assembly / Products	Test Report	Assembly Details	Class
Beaumont Shake	N/A	See Note 1	UL 2218 Class IV Compliant
Vermont Slate	N/A	See Note 1	UL 2218 Class IV Compliant
Beaumont Shake Loc	QAI Test Report RJ6888P-1 dated April 3, 2019	Deck: • 15/32" AC grade plywood decking on a 2" x 4" wood frame Underlayment: • TU43 MB Technology layfast SBS ASTM D226 compliant Type II Underlayment. Roof Covering: • Euroshield Beaumont Shake Loc panels installed on the deck following the manufacture's installation instructions.	UL 2218-14 Class IV Compliant
Harvest Shake **(formerly Eurolite Shake)**	QAI Test Report RJ4414F-1 dated March 15, 2016	Lumber: • Nominal 2" x 4" Douglas Fir, m.c. between 8-12% Deck: • 15/32" AC Exterior grade plywood, m.c. < 8% Underlayment: • One layer of ASTM D226 Type II Underlayment fastened to the test deck with 2" overlap at horizontal joints Roof Covering: • Euroshield EuroLite Shake black roof panels	ASTM E108-16 Class C Reviewed and considered to comply with CAN/ULC S107-10 Class C
Ranchlands Shake **(formerly EuroShake)**	QAI Test Report RJ4414F-2 dated March 15, 2016	Lumber: • Nominal 2" x 4" Douglas Fir, m.c. between 8-12% Deck: • 15/32" AC Exterior grade plywood, m.c. < 8% Underlayment: • One layer of ASTM D226 Type II Underlayment fastened to the test deck with 2" overlap at horizontal joints Roof Covering: • Euroshield EuroShake black roof panels	ASTM E108-16 Class C Reviewed and considered to comply with CAN/ULC S107 Class C

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Assembly / Products	Test Report	Assembly Details	Class
Granville Slate **(formerly Heritage Slate and Eurolite Slate)**	N/A	See Note 2	ASTM E108 Class C Reviewed and considered to comply with CAN/ULC S107 Class C
Rundle Slate **(formerly EuroSlate)**	N/A	See Note 3	ASTM E108 Class C Reviewed and considered to comply with CAN/ULC S107 Class C
Beaumont Shake	QAI Test Report RJ5345F-1 dated April 20, 2017.	Lumber: • Nominal 2" x 4" Douglas Fir, m.c. between 8-12% Deck: • 15/32" AC Exterior grade plywood, m.c. < 8% Underlayment: • One layer of ASTM D226 Type II Underlayment fastened to the test deck with 4" overlap at horizontal joints Roof Covering: • Euroshield Beaumont Shake black roof panels	ASTM E108-16 Class C Reviewed and considered to comply with CAN/ULC S107 Class C
Beaumont Shake Loc	QAI Test Report RJ6888F-1 dated April 18, 2019.	Lumber: • Nominal 2" x 4" Douglas Fir, m.c. between 8-12% Deck: • 15/32" AC Exterior grade plywood, m.c. < 8% Underlayment: • TU43 MB Technology layfast SBS ASTM D226 compliant Type II Underlayment with 2" overlap at horizontal joints, mechanically fastened to the test deck using T50 staples at 18" OC intervals. Roof Covering: • Euroshield Beaumont Shake Loc panels installed on the deck using eight 1-3/4" roofing nails per shingle. Each course of shingles was layered down in a manner as to leave 9" of the previous layer exposed.	ASTM E108-19 Class C Reviewed and considered to comply with CAN/ULC S107 Class C

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Assembly / Products	Test Report	Assembly Details	Class
Rundle Slate, Rundle Shake, Beaumont Shake, Vermont Slate Loc	QAI CER$_{US}$-1013 published November 2022.	See CER$_{US}$-1013 for use of Rundle Slate, Rundle Shake, Beaumont Shake and Vermont Slate products under the International Building Code versions 2018 / 2015 and International Residential Code 2018 / 2015 editions.	2018 / 2015 IBC and IRC
Slate, Rundle Shake, Beaumont Shake, Vermont Slate Loc	QAI CERus-1013 published April 2024	See CER$_{US}$-1013 for use of Rundle Slate, Rundle Shake, Beaumont Shake and Vermont Slate products under the International Building Code	2024 IBC / IRC and 2023 FBC.
Beaumont Shake HP, Vermont Slate Loc HP	QAI CERus-1013 published December 2025	Update to include HP products of identical formulation only thicker cross section for wind uplift, material properties and impact (hail) resistance. HP products not included in roof-fire classified assemblies due to increased fuel load.	2024 IBC / IRC and 2023 FBC.

Note 1: As Euroshield® Granville Slate, Harvest Shake and Beaumont Shake products are manufactured using the same formulation with similar thickness, Beaumont Shake is considered Class IV per UL 2218.

Note 2: As Euroshield® Granville Slate and Harvest Shake products are manufactured using the same formulation with similar thickness, Granville Slate is considered Class C per CAN/ULC S107 and ASTM E108.

Note 3: As Euroshield® Rundle Slate and Ranchlands Shake products are manufactured using the same formulation with similar thickness, Ranchlands Slate is considered Class C per CAN/ULC S107 and ASTM E108.

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STANDARDS REVIEW

QAI has reviewed the following standards and found the standards to maintain compliance with versions noted:

STANDARD EDITION	STANDARD COMPLIANT VERSION
UL 2218-10	UL 2218-20
ASTM E108-16	ASTM E108-20a
ASTM E108-19	ASTM E108-20a
CAN/ULC S107-10	CAN/ULC S107-19

CONCLUSION:

The products outlined in this Evaluation Report were found to comply with the requirements of the applicable standards and are acceptable for listing with QAI.

Issued By:

Matt Lansdowne, P.Eng.
VP of Certification & ENgineering

Reviewed By:

Kent Adamson
President

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REPORT REVISION HISTORY:

Date	Version	Change Description	Initials
June 10, 2016	Edition 1	• Issued by: Anthony Hicks, Project Manager; • Reviewed by: Matt Lansdowne, P.Eng., Director of Engineering; • Contents: Evaluation Report - pages 1 through 7; • Standards: - ASTM E108 Standard Test Methods for Fire Tests of Roof Coverings; - CAN/ULC S107 Methods of Fire Tests of Roof Coverings; - UL 2218 Standard for Impact Resistance of Prepared Roof Covering Materials; - ICC-ES AC07 Acceptance Criteria for Special Roofing Systems. • Products: Euroshield rubber roof covering products: - Eurolite Shake; - Eurolite Slate; - Euroshake; - Euroslate; - Beaumont Shake.	AH
April 26, 2017	Edition 2	• Issued by: Anthony Hicks, Project Manager; • Reviewed by: Matt Lansdowne, P.Eng., Director of Engineering; • Contents: Evaluation Report - pages 1 through 7; • Updated product names as follows: - Eurolite Shake → Harvest Shake; - Eurolite Slate → Heritage Slate. • Test Report section updated with new dates and test report RJ5345-1.	AH
February 28, 2019	Edition 3	• Issued by: Alex Pankov, Project Manager; • Reviewed by: Kent Adamson, President; • Contents: Evaluation Report - pages 1 through 9; • Updated product names as follows: - Euroshake → Ranchlands Shake; - Euroslate → Rundle Slate; - Heritage Slate → Granville Slate. • Removed references to ICC-ES from the report. • Minor formatting updates.	AP
April 24, 2019	Edition 4	• Issued by: Alex Pankov, Project Manager; • Reviewed by: Matt Lansdowne, P.Eng., Director of Engineering; • Contents: Evaluation Report - pages 1 through 12; • Added new Product “Beaumont Shake Loc”. • Test Report section updated with new test reports RJ6888P-1 and RJ6888F-1.	AP
November 24, 2022	Edition 5	• Inclusion of CER_{US}-1013 outlining compliance of Rundle Shake, Rundle Slate, Beaumont Shake, and Vermont Slate products to the 2018 / 2015 IBC and IRC. • Including of Vermont Slate products based on evaluation by QAI T1065-13 dated April 25, 2019.	ML
April 2025	Edition 6	• Addition of the 2024 IBC / IRC, 2023 FBC (not including HVHZ)	ML

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Date	Version	Change Description	Initials
January 28, 2026	Edition 7	Update to include Beaumont Shake HP and Vermont Slate Loc HP products of identical formulation, only thicker cross section, to CERus-1014 and UL 2218 hail impact based on increased wind uplift and impact resistance. Roof-fire classification for these products is not included due to increased fuel load. Removal of discontinued products per client request.	ML

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