



CERTIFICATE OF CONFORMITY

This is to certify that

Owens Corning Asphalt Roofing Shingles OAKRIDGE PRO 30, OAKRIDGE PRO 30 SUPER BERKSHIRE AND DURATION PREMIUM



Product Description

Owens Corning Asphalt Roofing Shingles are a glass-fibre reinforced asphalt shingles surfaced with a ceramic coated mineral chip to provide protection from UV rays. The shingles, flashings and accessories form a weather tight roofing system when installed over a plywood or reconstituted wood board substrate and roofing underlay.

Certificate Holder

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Certification Body

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Complies with the New Zealand Building Code:

1. Structure B1.3.1, B1.3.2, B1.3.3 and B1.3.4.
2. Durability B2.3.1 (b) and B2.3.2 (b).
3. External Moisture E2.3.1, E2.3.2 and E2.3.7 refer condition and limitation (b).
4. Hazardous Building Materials F2.3.1.
5. Water Supplies G12.3.1.

Product Purpose or Use

Owens Corning Laminated Asphalt Shingles can be used as a roof cladding for buildings within the following scope:

- NZBC Acceptable Solution E2/AS1 Paragraph 1.1, with regard to floor plan area and building height;
- Buildings constructed with timber roof framing and plywood/sarking complying with the NZBC;
- Buildings where the roof pitch is 9.5° or greater up to 60° and;
- Buildings located in NZS 3604:2011 Wind Zones up to and including Very High, or Extra High for Duration Premium shingles only.

Subject to the following Conditions & Limitations:

- a. Must be installed by a Trained Licensed Building Practitioner and Approved Installer in accordance with the Owens Corning Laminated Shingles Installation Instructions Version 1 Dated 1/12/2016 and Owens Corning Berkshire Shingles Installation Instructions Version 1 Dated 1/12/2016
- b. G12.3.1 is conditional on the water passing through an appropriate filtration or sterilisation process.
- c. The Certificate Holder must maintain compliance with the conditions set out in Section 15 of the Building (Product Certification) Regulations 2008.


John Thorpe
CertMark International Pty Ltd

31/01/2017
Date of Issue

CM40202-I01-R01
Certificate Number
Revision date May 2019.

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 **MINISTRY OF BUSINESS,
INNOVATION & EMPLOYMENT**
HIKINA WHAKATUTUKI



A1 Product or System Specification

Oakridge Pro 30, Oakridge Pro 30 Super and Duration Premium Laminated Asphalt Shingles are double layered and manufactured by laminating two single layer sheets together with asphaltic cement. The top sheet is cut to a profile which gives it a random tab pattern when overlaying the lower sheet (Fig 1) The Berkshire Laminated Asphalt shingle is also double layered and manufactured by laminating two single layer sheets together with asphaltic cement. The top sheet is cut to a profile which gives a four-tab slate pattern when overlaying the lower sheet (Fig 2).



Figure 1



Figure 2

Shingle Type	Shingle weight (per m ²)	15mm plywood 6.9 kg (per m ²)	17mm plywood 7.9 kg (per m ²)
Duration® Premium	12.6 kgs	19.5 kgs	20.5 kgs
Oakridge® Pro 30 Super	11.3 kgs	18.2 kgs	19.2 kgs
Oakridge® Pro 30	10.7 kgs	17.6 kgs	18.6 kgs
Berkshire®	17.8 kgs	24.7 kgs	25.7 kgs

Approx. Roof Mass (plywood example)

A2 Installation Requirements

- Owens Corning Asphalt Roofing Shingles must be installed in accordance with the Owens Corning Laminate Shingles Installation Instructions Version 1 Dated 1/12/2016 and Owens Corning Berkshire Shingles Installation Instructions Version 1 Dated 1/12/2016.
- Timber framing and substrate must be in accordance with NZS 3604:2011 or AS/NZS 1170.2:2011 Structural Design and treated in accordance with NZBC Acceptable Solution B2/AS1 and NZS 3602:2003 for the building design. Substrate must be of suitable composition to meet the requirements of "Light Roof" framing in accordance with NZS 3604: 2011.
- Total asphalt shingle and substrate mass not to exceed 20kgs/m² under this standard. A "Heavy Roof" is defined as a mass of more than 20kgs/m² but not exceeding 60kgs/m². Substrate must also comply with the requirements of AS/NZS 2269:2012 (Table 2).
- Installation of Asphalt Roofing Shingles is classed as Restricted Building Work and installation must be completed by or under the control of a Licensed Building Practitioner with the relevant licence class in accordance with the manufacturers/supplier's technical information, specification and installation instructions.

Substrates

- Rafters or Trusses must be at a maximum 900 mm centres for 15mm and 17mm thick substrate.
- When using Plywood, the Tongue & Groove edge must be butt jointed with no gaps between the edges of the sheets.
- Square edges must have a 2-3mm gap between the sheets. Fixing must be in accordance with the substrate manufacturer's requirements.
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- Plywood grain face must be laid at right angles to supports. The sheets must be laid with staggered joints to form a brick lock pattern.

Note: Plywood or “Superstrand” manufacturer’s technical specification must be referred to for confirmation of maximum thickness and grades relative to the roof pitch and framing centres.

Prevention of Fire

Protection or separation must be provided to Owens Corning Asphalt Roofing Shingles from heat sources such as fire places, flues and chimneys. Part 7 of NZBC Acceptable Solutions C/AS1 – C/AS6 and NZBC Verification Method C/VM1 provide methods for separation and protection of combustible materials from heat source.

A3 Other Relevant Technical Data

External Moisture

When fixed in accordance with the Owens Corning Laminate Shingles Installation Instructions Version 1 Dated 1/12/2016 and Owens Corning Berkshire Shingles Installation Instructions Version 1 Dated 1/12/2016 Owens Corning Asphalt Roofing Shingles will shed precipitated moisture and therefore meet the requirements of NZBC Clause E2.3.1. They will also prevent the penetration of water that could cause undue dampness, or damage to building elements therefore meeting the performance requirements of NZBC Clause E2.3.2.

Roofs clad with Owens Corning Asphalt Roofing Shingles, if ventilated in accordance with the Owens Corning Laminate Shingles Installation Instructions Version 1 Dated 1/12/2016 and Owens Corning Berkshire Shingles Installation Instructions Version 1 Dated 1/12/2016, allow excess moisture present at the completion of the construction to be dissipated without permanent damage to building elements. This is achieved by ensuring the construction moisture levels are no higher than 18% when the shingles are laid and before the ceiling is closed in, as well as providing an appropriate level of ceiling cavity ventilation.

Water Run Off

Owens Corning Asphalt Roofing Shingles do not contaminate water and comply with AS/NZS 4020:2005. Collection of water from any roof surface made of any material should be deemed non-potable due to possible contamination from other sources. Although complying with AS/NZS 4020:2005 any water collected off Owens Corning Asphalt Roofing Shingles should only be considered potable once it has passed through a suitable filtration and sterilisation system.

Note: A “first flush” diverter system must be installed to allow the first 25mm of each rainfall to bypass to waste before drinking water collection begins.

Snow

Owens Corning Asphalt Roofing Shingles are suitable for areas where buildings are designed for 1 kPa snow loading.

Wind Zones

When fixed in accordance with the manufacturers and suppliers requirements Owens Corning Asphalt Roofing Shingles are suitable for use in all NZS 3064:2011 Building Wind zones, up to and including Very High, or Extra High for Duration Premium shingles only.

Durability

Owens Corning Asphalt Roofing Shingles may lose some of the surface granules over a period of time. On aging some surface cracking may appear however these cracks will not affect the weather tightness of the roof covering within 15 years.

Product	Warranty length	Wind warranty	Wind length	Non-Tropical Algae
Duration® Premium	50 Years	130 MPH/ 209K/Hr	10 Years	10 Years
Oakridge® Pro 30 Super	30 Years	110 MPH/ 180 K/Hr	15 Years	10 Years
Oakridge® Pro 30	30 Years	110 MPH/ 180 K/Hr	5 Years	N/A
Berkshire®	40 Years	110 MPH/ 180 K/Hr	10 Years	15 Years

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B1 Basis of CodeMark Certification

CMI has followed the following procedures for certifying the Owens Corning Asphalt Roofing Shingles:

- Testing and assessment of the Owens Corning Asphalt Roofing Shingles;
- Assessing a quality plan for the Owens Corning Asphalt Roofing Shingles that conforms to ISO 10005:2018 and the CodeMark scheme rules Version 2009.1;
- By reviewing testing of samples supplied to ascertain whether or not the product meets the performance requirements specified on this certificate; and
- Conducting site audits of the factory to verify compliance of the Owens Corning Asphalt Roofing Shingles.

B2 Sources of Information

- Installation site inspection in New Zealand (Auckland), and subsequent expert opinion Mr William Irvine Arbitration New Zealand dated 11 January 2017.
- Technical audit of product in service in Auckland for the past 15 years.
- Underwriters Laboratory Inc.; File R26780; Project 10CA31606; Test Reports and Classification in accordance with ANSI/UL 790; Dated December 07, 2010.
- Underwriters Laboratory Inc.; Report Reference R26780; Test Reports and Classification in accordance with ASTM D3161; Dated 27 December 2010.
- Underwriters Laboratory Inc.; File R2453; Project 13NK05962; Classification in accordance with ICC-ES Acceptance Criteria for Alternative Asphalt Roofing Shingles, AC438; Dated 2013.
- Underwriters Laboratory Inc.; Evaluation Report; Classification in accordance with ASTM D3462; Revised January 30, 2015.
- Underwriters Laboratory Inc.; Evaluation Report; Classification in accordance with UL 2390/ASTM D7158; Revised January 30, 2015.
- Underwriters Laboratory Inc.; Evaluation Report UL ER2453-01; Revised January 30, 2015.

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