

Complies with E2 as an Alternative Solution.

masterspec Viking EcoStar

Technical Statement

Product Description

Viking EcoStar Roofing Tiles emulate the look and durability of natural slate. The tiles are composed of 80% recycled polymers and are installed over a plywood or Viking SuperStrand sarking substrate. The unique formulation of EcoStar tiles renders several advantages over slate roofing whilst still offering natural slate's timeless look and longevity.

Being manufactured from recycled polymers, EcoStar tiles are flexible; won't crack, and have a high impact resistance.

The structural integrity of the EcoStar system is enhanced through the installation of a timber sarking substrate onto which it is securely fastened. The roof system (including substrate) is approximately half the weight of a natural slate roof and yet its durable and light-weight substrate, braces the entire building; negating the need for extra structural requirements for heavy-weight roofing materials.

Viking EcoStar has many environmental benefits - see the "Environmental" section of this statement for a full list of environmental benefits.

Other features:

Viking EcoStar is backed by a 50-year product warranty and for specific projects, can be eligible for a Viking Full System Warranty. These are over 45 colour and profile combination options. All Viking tiles have been assessed by the independent Underwriters Laboratory (U.L.), assessing their collective resistance to: wind uplift; UV and impact (it demonstrates the highest impact rating a construction product can). It has also been formulated to resist extreme temperature variations and up to Extra Wind zones.

Scope of use

Viking EcoStar Roofing Tiles are suitable for use as a roof cladding for buildings within the following scope:

- the scope limitations of NZBC Acceptable E2/AS1, Paragraph 1.1, with regard to floor plan area and building height; and,
- constructed with timber roof framing and sheathing complying with the NZBC; and,
- where the roof slope is 15 degrees or greater; and,
- situated in NZS 3604 Wind Zones up to and including 'Very High'.

The system must be installed in accordance with the Technical Literature by a Viking Roofspec Trained and Approved Installer

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.4
- Clause B2 Durability: Performance B2.3.1, B2.3.1(a)
- Clause E2 External moisture: Performance E2.3.1, E2.3.2
- Clause F2 Hazardous building materials: Performance F2.3.1

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:

Product Criteria

Design requirements

Product specification and incorporation of Viking EcoStar Roofing Tiles into the building design shall be carried out by a designer/architect /engineer or building professional who:

- Is qualified to design the buildings covered under the 'Scope' of use of this product .
- Has ready access to the technical specifications including installation details and standards referenced in the Master-spec Specification where the design limitations are outlined for the scope of this PTS.

EcoStar is a system that incorporates specific matching accessories including flashings, caps, vents and underlay.

Installation requirements

Installation shall be carried out by a Viking trained installer.

- Installation shall be carried out by a Viking Roofspec trained and licensed installer.
- Installation shall be undertaken in accordance with all relevant technical information related to the selected installation method, including information contained within the Masterspec Specification.

Maintenance requirements

- Little maintenance should be required apart from the removal of lichen, moss and organic growth that may become established.
- Annual inspections must be made to ensure that all aspects of the roof cladding, including the pre-finished coating, the flashings and any joints remain in a weatherproof condition. Any damaged areas or areas showing signs of deterioration which would allow water ingress must be repaired immediately.

Warranties

Viking EcoStar Roofing Tiles are backed by a 50-year product warranty. For specific projects, EcoStar may be eligible to be covered by Viking's Full System Warranty. This warranty covers the product and installation in one document, for the first 20-years.

Visit [nextgen](#) or [masterspec](#) for the online version of our specification.

CAD Details

Please visit our website www.vikingroofspec.co.nz or our masterspec listing for our latest CAD Roofing details.

Company Product Information

Environmental

- Viking EcoStar tiles are composed of 80% post-industrial recycled rubber and plastics from the likes of old car bumpers; door mouldings; radiator hoses; and off-cuts from the manufacture of disposable diapers.
- They are 100% recyclable at the end of their usable life.
- Being half the weight of natural slate, less structural timber is required to brace and support the roof