



Product Specification



Asphalt Shingle Roofing

The following is our current Product Specification for Owens Corning Asphalt Shingle Roofing.

You can use this specification to ensure that you have the right information and technical data required to specify our asphalt shingle roofing and accessories products more easily.

If you require any other information or CAD details you can find them on our website www.spsbuilding.co.nz

For any further support please do not hesitate to contact us on 0800 573301

Kind Regards,

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Asphalt Shingle Roofing

SECTION 4371 - ASPHALT SHINGLE ROOFING

PART 1 GENERAL

This section relates to the supply and installation of **Owens Corning Asphalt Shingle** Roofing installed over a plywood substrate and roofing underlay to form a weather tight roofing system. -complete with the following products

Hip and ridge shingles.
Starter shingles.
Self-adhering ice and water barrier. Shingle underlay.
Ventilation.
Fasteners.
Metal flashing and trim

- Where roof slope is 9.5° or greater
- An alternative solution in terms of the New Zealand Building Code (NZBC)
- **Owens Corning** Fibreglass-based asphalt shingles available in 4 profiles

This section includes general clauses relating to the supply and installation of the plywood substrate.

1.1 RELATED WORK

Refer to 4337 PLYWOOD ROOFING & DECKING SUBSTRATE for Plywood Roof substrate Refer to 4337E ECOPLY ROOFING & DECKING for Plywood Roof substrate
Refer to 7411 RAINWATER SPOUTING SYSTEMS for rainwater disposal

1.2 DOCUMENTS

Refer to the general section 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

NZBC B1/AS1 Structure
NZBC B2/AS1 Durability
NZBC E2/AS1 External moisture
AS/NZS 2269.0 Plywood - Structural - Specifications
AS/NZS 1170 Structural design actions
AS1397 Continuous hot dip metallic coated steel sheet and strip –
coatings of zinc and zinc alloyed with aluminium and magnesium
NZS 3603 Timber structures standard
NZS 3604 Timber-framed buildings
NZS 4203 General structural design and design loadings for buildings
AS/NZS 4680 Hot-dip, galvanized (zinc) coatings on fabricated ferrous
articles

1.3 MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to this part of the work: **Owens Corning** Asphalt Shingles product brochures and Material Data sheets **Owens Corning** Laminated Shingles Installation Instructions manual Department of Building and Housing - Determination #2009/80

SPS Building Section details for Owens Corning Asphalt Shingles

SPS Building Technical Information

AMS Laboratories - Certificate of Compliance-Potable Water collection 2015 BRANZ Appraisal 703-Strandboard Sarking

Juken New Zealand Ltd Superstrand Sarking Technical manual



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Copies of the above are available from SPS Roofing and Building Materials Ltd. Manufacturer/supplier contact details

Company: SPS Roofing and Building Materials Ltd. T/A: **SPS Building**
Web: www.spsbuilding.co.nz.co.nz
Email: info@spsbuilding.co.nz
Telephone: 0800 573 301 or 09 573 3017 Facsimile: 09 573 3018

1.4 WARRANTY - MANUFACTURER/SUPPLIER

Provide a material manufacturer/supplier warranty: - years: For -

Provide this warranty on the **SPS Building** Warranty standard form.

- Commence the warranty from the date of completion of installation.

1.5 WARRANTY - INSTALLER/APPLICATOR

Provide an installer/applicator warranty: 5 years provided the shingles have been installed in strict accordance with Owens Corning written installation instructions.

- Provide this warranty using the **SPS Building** standard form.
- Commence the warranty from the date of completion of installation.

1.6 WARRANTY – SPS Building Complete System Warranty

Provide a **SPS Building** Full System Warranty for materials and installation 20 years: For **Owens Corning Asphalt Shingles**

- Requires installation by a **SPS Building** Approved Installer.
- Provide this warranty on the **SPS Building** complete system warranty standard form.
- Commence the warranty from the date of completion of installation.

Refer to the section 1237 WARRANTIES for additional requirements.

1.7 QUALIFICATIONS

Installation of all components and accessories supplied by **SPS Building** to be carried out by **SPS Building** approved Installers. Installation of components and substrates supplied by the building contractor must be completed by tradespersons with an understanding of roofing installation and in accordance with instructions given in **Owens Corning** Laminated Shingles Installation Instructions manual

1.8 NO SUBSTITUTIONS

Substitutions are not permitted to any specified **Owens Corning** Asphalt shingle roofing, or associated products, components or accessories.

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1.9 INFORMATION FOR OPERATION AND MAINTENANCE

SPS Building recommends routine maintenance should be carried out 2-3 times per year. Asphalt Shingle maintenance guidance document available on **SPS Building** website.

1.10 ROOF LOADING

To NZBC B1/AS1 structure - Performance, to meet the requirements for loads arising from self weight, gravity loads, temperature, snow, wind, impact and creep.

1.11 SPECIFIC NAILING DETAILS

Installation to comply with **SPS Building** written installation instructions set up in the **SPS Building** Owens Corning Laminated Shingle Installation manual, current at the time of installation.

1.12 STRUCTURAL FIXINGS, EARTHQUAKE

Use fixings and methods to comply with **SPS Building** written installation instructions set up in the **SPS Building** Owens Corning Laminated Shingle Installation manual.

1.13 CO-ORDINATE

Co-ordinate to ensure substrate and preparatory work is complete and other work programmed in the order required for access and completion of the roof. Refer to **SPS Building** Owens Corning Laminated Shingle Installation Manual for substrate requirements and specifications. The installation of the substrate is usually the responsibility of the **SPS Building** approved Installer unless agreed otherwise.

1.14 PERFORMANCE

To NZBC B2/AS1 - Durability, and to NZBC E2/AS1 - External moisture. Accept responsibility for the weather-tight performance of the completed roofing system, including all penetrations through the roof and junctions with walls and parapets. Penetrations through the to be the responsibility of the penetration installer or plumber

PART 2. PRODUCTS

2.1 ASPHALT SHINGLES

Owens Corning Shingles, glass fibre reinforced asphalt roofing shingles, ceramic mineral chip surface with a UV resistant coating. Refer to SELECTIONS for shingle type.

2.2 UNDERLAY

SPS Building Stormtite synthetic underlay, a coated woven polyolefin for use as an asphalt shingle roofing underlay or #15 or 30 lb Standard or Plain Bitumen impregnated felt for use as an asphalt shingle roofing underlay. Fixings in accordance with manufacturer's requirements.

2.3 PEEL AND STICK WATERPROOF MEMBRANE

SPS Building Peel and Stick Waterproofing Membrane, a self-adhering waterproofing membrane composed of a tough reinforcement that is impregnated and coated with SBS-modified asphalt. Peel and Stick waterproof membrane can also be used as a Shingle Starter Strip

2.4 SHINGLE STARTER STRIPS

Shingle Starter Strip, pre cut shingle starters for use at eaves to ensure straight edges.

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2.5 HIP AND RIDGE SHINGLES

Owens Corning “Hip and Ridge with sealant” perforated 4 Tab shingle in 250mm x 337mm size or Owens Corning “Supreme” 3 Tab shingle is cut into 305mm x 337mm sizes for use on hips and ridges. Berkshire Hip and Ridge shingle in 305mm x 305mm for use with Berkshire Shingles.

2.6 ROOFING SEALANT

SPS Building Roofing Sealant, a black mastic type sealant for use as a weather sealant and wind uplift adhesive.

2.7 BUTYL / EPDM STRIP FLASHING

Butyl or EPDM Strip Flashing, 250mm wide butyl strip for use as apron and step flashings.

2.8 SHINGLE VENT

Shingle Vent ridge vent incorporating an external baffle and a weather filter, used to ventilate roof spaces beneath asphalt shingle roofs. Available in 2m lengths and 230mm or 280mm wide.

The following accessories used with the Owens Corning Asphalt Shingle roofing may be supplied by building contractor

2.9 PLYWOOD SUBSTRATE

Refer to 4337 PLYWOOD ROOFING AND DECKING for plywood substrate to AS/NZS 2269.0.

2.10 PLYWOOD FIXINGS

60mm x 2.8mm flat head hot-dipped galvanized or stainless steel angular-grooved nails for 15mm and 17mm plywood. Hot-dipped galvanizing to comply with AS/NZS 4680. Stainless steel to be grade 316. Comply with plywood manufacturer's specifications.

2.11 SUPERSTRAND SUBSTRATE

Superstrand Sarking is an engineered wood panel, available as a square sheet, H3.1 non-solvent treated, 16.25mm thick with a textured surface on one face. Refer to BRANZ Appraisal 703 - Strandboard Sarking and Juken New Zealand Ltd Superstrand substrate Technical Manual.

2.12 SUPERSTRAND FIXINGS

Minimum of 75mm x 3.15mm flat head hot-dipped galvanized or stainless steel nails for SuperStrand Sarking. Hot-dipped galvanizing to comply with AS/NZS 4680. Stainless steel to be grade 316. Comply with Superstrand manufacturer's technical specifications. Refer to SuperStrand Technical literature for fixing centres to suit site wind-zone.

2.13 METAL FLASHINGS AND TRIM

Folded aluminium/zinc-coated to AS 1397 and NZBC E2/AS1, 4.0 Flashings, or copper to minimum thickness 0.5mm.

2.14 SHINGLE NAILS

Hot-dipped galvanized or stainless steel, 11 or 12 gauge roofing nails with a minimum head diameter of 9mm. Nail shanks must be long enough to penetrate the shingle and then go 19mm into the plywood sheathing or completely through the plywood, whichever is greater. Use stainless steel in all coastal zones.

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PART 3. EXECUTION

3.1 STORAGE AND HANDLING PLYWOOD SHEETS

Transport and handle with care to avoid damaging the pre-finished surface. Store sheets in stacks clear of the ground, supported without sagging on evenly spaced horizontal bearers. Protect from damage and weather. Handle sheets carefully and reject those with damaged faces or edges. Comply with plywood manufacturer's specifications.

3.2 BEFORE COMMENCING WORK

Check framing is suitable for laying substrate. Roof framing must comply with NZS 3604, or be to a specific design in accordance with NZS 3603 and NZS 4203. Rafters or trusses must be at maximum 900mm centres for F11 roofing plywood or Superstrand substrate and treated to NZS 3602. Roof design must take into account any requirements for areas subject to regular snowfalls as per the requirements of NZBC E2/AS1, paragraph 1.3.

3.3 FIXING PLYWOOD SHEETS - GENERAL

Fix in accordance with the plywood manufacturer's requirements. Lay sheets with staggered joints in a brick bond pattern, face-grain of sheet at right-angles to support with sheets in square, true alignment and plane. Tongue and groove plywood, butt end joints to be fully supported with a 3mm gap between edges, with no gaps between the sheets tongue and grooved long-edges. Square edged plywood sheets to be fully supported at all edges and joints with a 3mm gap between the sheet edges. Fix using 60mm x 2.8mm galvanized nails as per manufacturers requirements.

3.4 FIXING SUPERSTRAND SHEETS - GENERAL

Fix Superstrand to manufacturer's requirements. Lay sheets with staggered joints in a brick bond pattern. Superstrand must be laid continuously over at least two spans (three framing members), single span (two framing members) and have a timber support (nog) at all sheet edges. Ensure there is a 3mm gap on all edges of the panel. Ensure ventilation as per the manufacturer's requirements. Fix using 75mm 3.15 hot dipped galvanised or stainless steel flat head nails. Very-High wind-zone fixing centres; 100mm panel ends / 150mm intermediate supports. Note: Fixings along panel edges must be at least 10mm from the panel edge.

3.5 FIT FLASHINGS

Install flashings to NZBC E2/AS1, 4.0 Flashings. Fit metal gutter flashing over the substrate and below the underlay to form drip edge at gutter. Fit metal barge flashing over underlay. Confirm roof penetrations are in place and flashed to the deck surface.

Application – Oakridge Pro 30, Oakridge Pro30 Super, Duration Premium.

3.6 ROOF DECK REQUIREMENTS

Apply shingles to minimum 15mm thick plywood or 16.3mm H3.1 Superstrand substrate.

3.7 LAY UNDERLAY - STANDARD OR STEEP SLOPE

For roof slope over 17°; tightly lay **SPS Building** Stormtite synthetic underlay or #15 Standard or Plain Felt Underlay to ASTM: D-226 or ASTM: D4869, horizontally lapped, 100mm across the roof and completely cover hips, ridges (except where ridge vents are used), and valleys. Only sufficient fasteners to temporarily hold the underlay in place need to be used.

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3.8 LAY UNDERLAY - LOW SLOPE

For roof slope between 12° and up to 17°; two layers of **SPS Building** Stormtite synthetic underlay or #15 Standard or Plain Felt Underlay lapped by half the width of the roll plus 25mm (resulting effectively in a double thickness of underlay). Only sufficient fasteners to temporarily hold the underlay in place need to be used. For better protection one layer of Peel and Stick Waterproofing Membrane can also be used.

For roof slope between 9.5° and up to 12°; one layer of Peel and Stick Waterproofing Membrane horizontally lapped, 100mm across the roof and completely cover hips, ridges (except where ridge vents are used), and valleys. End laps to be 150mm and installation in accordance with the manufacturer's installation instructions.

3.9 VALLEYS, CLOSED CUT CONSTRUCTION

Apply valley inner liner before shingles (either synthetic or #15 Standard or Plain felt or the Peel and Stick membrane). **SPS Building** recommends the closed cut valley application using a valley liner membrane to **SPS Building** Owens Corning Laminated Shingle installation requirements.

3.10 PLAN LAYOUT

Plan layout to ensure the required overlap is maintained. Use chalk lines at every fourth or fifth row to maintain line. Adjust rows gradually correct non parallel situations. Set out rows to ensure cut pieces are not less than 150mm.

3.11 INSTALL ASPHALT SHINGLES

Install **Oakridge Pro 30, Oakridge Pro30 Super, Duration Premium** Shingles, with the five courses, 150mm stepped-off diagonal method of application. Lay complete with matching accessories, flashed to roof features and penetrations, fitted with under-cloaks to **SPS Building** Owens Corning Laminated Asphalt Shingle installation requirements.

3.12 SEALING

Check shingles during the installation process and before the completion of the project for sealing. Any shingles which have not bonded (self-sealed) after 48 hours of fine weather require hand sealing using two 25mm spots of sealant under the corner of each tab.

CAUTION: To prevent cracking, shingles must be sufficiently warm to allow proper forming for hips, ridges and valleys.

3.13 FASTENING

Apply 4-6 nails per shingle in accordance with Owens Corning Laminated Shingle installation requirements, 11 or 12 gauge, and corrosion-resistant roofing nails with 9mm heads. Ensure the fasteners are driven straight and are flush with the shingle surface. Nails to be of sufficient length to penetrate 19mm into the deck, or through the thickness of the decking, whichever is the greater. Use stainless steel nails for high corrosion zones.

3.14 INSTALL FLASHING

Install flashings to NZBC E2/AS1, 4.0 Flashings. Use corrosion resistant metal flashing.

3.15 INSTALL SHINGLE RIDGE VENT

Install Shingle Ridge Vent over shingles to **SPS Building** Owens Corning Shingle installation requirements.

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3.16 INSTALL RIDGE AND HIP CAP SHINGLES

Install Owens Corning Hip and Ridge with sealant, Supreme accessory roofing shingle of like colour for capping hips and ridges to **SPS Building** Owens Corning Shingle installation requirements

Application - Berkshire shingles

3.17 ROOF DECK REQUIREMENTS

Apply Berkshire shingles to minimum 15mm thick plywood wood decks or 16.3mm H3.1 Superstrand substrate.

3.18 LAY UNDERLAY - STANDARD OR STEEP SLOPE

For roof slope over 17°; tightly lay **SPS Building** Stormtite synthetic underlay or #15 Standard or Plain Felt Underlay, horizontally lapped, 100mm across the roof and completely cover hips, ridges (except where ridge vents are used), and valleys. Only sufficient fasteners to temporarily hold the underlay in place need to be used.

3.19 LAY UNDERLAY - LOW SLOPE

For roof slope between 12° and up to 17°; two layers of **SPS Building** Stormtite synthetic underlay or #15 Standard or Plain Felt Underlay lapped by half the width of the roll plus 25mm (resulting effectively in a double thickness of underlay). Only sufficient fasteners to temporarily hold the underlay in place need to be used. For better protection one layer of Peel and Stick Waterproofing Membrane can also be used.

For roof slope between 9.5° and up to 12°; one layer of Peel and Stick Waterproofing Membrane horizontally lapped, 100mm across the roof and completely cover hips, ridges (except where ridge vents are used), and valleys. End laps to be 150mm and installation in accordance with the manufacturer's installation instructions

3.20 VALLEYS, OPEN CONSTRUCTION

Closed cut valley construction method is not recommended for Owens Corning Berkshire shingles. Apply valley inner liner before shingles (either felt underlay or the Peel and Stick membrane). The open construction valley application is recommended using Peel and Stick Waterproofing Membrane underlayment under a full length valley flashing to NZBC E2/AS1, 4.0 Flashings. Use corrosion resistant metal flashing and construct to Owens Corning Berkshire shingle installation requirements.

3.21 PLAN LAYOUT

Plan layout to ensure the required overlap is maintained. Use chalk lines at every fourth or fifth row to maintain line. Adjust rows gradually to correct non parallel situations. Set out rows to ensure cuts pieces are not less than 150mm.

3.22 INSTALL SHINGLES

Install Berkshire shingles, with the two courses, 120mm **Vertical Racking Method**. Starting at bottom of roof using the single-column, vertical-racking method. Owens Corning Berkshire shingles **must** be applied with a 120mm offset and 212mm exposure. Caution must be exercised to ensure that end joints are no closer than 50mm from a fastener in the shingle below.

Note: Owens Corning Berkshire shingles ARE NOT to be installed across and diagonally up the roof.

Lay complete with matching accessories, flashed to roof features and penetrations, fitted with under-cloaks to Owens Corning Shingle Berkshire installation requirements.

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3.23 SEALING

Shingle self-sealing may be delayed if shingles are applied in cool weather and may be further delayed by airborne dust accumulation. If any shingles have not sealed after a reasonable time period, hand sealing may be necessary.

CAUTION: To prevent cracking, shingles must be sufficiently warm to allow proper forming for hips, ridges and valleys.

3.24 FASTENING

Fasten each shingle with 5 nails according to **SPS Building** Owens Corning Berkshire Installation requirements. 11 or 12 gauge and corrosion-resistant roofing nails with 9mm heads. Fasteners must penetrate the two-layer common bond area. Ensure the fasteners are driven in straight and are flush with the shingle surface. Use stainless steel nails for high corrosion zones.

3.25 INSTALL FLASHING

Install flashings to NZBC E2/AS1, 4.0 Flashings. Use corrosion resistant metal flashing.

3.26 INSTALL SHINGLE RIDGE VENT

Install Shingle Ridge Vent over shingles to **SPS Building** Owens Corning Shingle installation requirements.

3.27 INSTALL BERKSHIRE HIP AND RIDGE CAP SHINGLES

Install Owens Corning Berkshire Hip and Ridge accessory roofing shingle of like colour for capping hips and ridges to **SPS Building** Owens Corning Berkshire installation requirements.

3.28 COMPLETE

Ensure the work is complete with all flashings, underlays, valleys, ridges and hips properly installed so the finished roof is completely weather tight.

3.52 CLEAR

Clear trade rubbish and unused materials from the roof and surrounds regularly during the work and at completion. Sweep down the completed roof and flush out spouting, gutters and rainwater pipes.

3.53 REPLACE

Replace damaged or marked elements. Remove unused materials from the site.

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PART 4. SELECTIONS

Substitutions are not permitted to the following, unless stated otherwise

****NOTE TO SPECIFIER**** Delete roof shingle products from the list below that are not required.

4.1 PRODUCTS

Oakridge® (Non Algae Resistant) Shingles: As manufactured by Owens Corning Roofing and Asphalt, LLC.

1. Nominal Size: 337 mm by 1000 mm.
2. Exposure: 143 mm.
3. Shingles per m2: 9 pcs
4. Coverage per pack: 3.1m2 (20 pcs)
5. Wind Resistance Warranty – 170 k/mph
6. Colour: As selected from manufacturer's full range.
7. Standards/Qualifications: ASTM D228, ASTM D3018 (Type 1), ASTM D3161 (Class F Wind Resistance), ASTM D3462, ASTM D7158 (Class H Wind Resistance), ASTM E108/UL 790 (Class A Fire Resistance), CSA A123.5, ICC-ES AC438, and UL ER2453-01.

Oakridge® Super (Algae Resistant) Shingles: As manufactured by Owens Corning Roofing and Asphalt, LLC.

1. Nominal Size: 337 mm by 1000 mm.
2. Exposure: 143 mm.
3. Shingles per m2: 9 pcs
4. Coverage per pack: 2.3m2 (16pcs)
5. Wind Resistance Warranty – 180 k/mph
6. Colour: As selected from manufacturer's full range.
7. Standards/Qualifications: ASTM D228, ASTM D3018 (Type 1), ASTM D3161 (Class F Wind Resistance), ASTM D3462, ASTM D7158 (Class H Wind Resistance), ASTM E108/UL 790 (Class A Fire Resistance), CSA A123.5, ICC-ES AC438, UL ER2453-01, Florida Product Approval (FL10674), and Miami-Dade County Product Approval (12-0430.01).

Duration® Premium (Algae Resistant) Shingles: As manufactured by Owens Corning Roofing and Asphalt, LLC.

1. Nominal Size: 337 mm by 1000 mm.
2. Exposure: 143 mm.
3. Shingles per m2: 9 pcs
4. Coverage per pack: 2.3m2 (16 pcs)
5. Wind Resistance Warranty – 210 k/mph
6. Colour: As selected from manufacturer's full range.
7. Standards/Qualifications: ASTM D228, ASTM D3018 (Type 1), ASTM D3161 (Class F Wind Resistance), ASTM D3462, ASTM D7158 (Class H Wind Resistance), ASTM E108/UL 790 (Class A Fire Resistance), ICC-ES AC438, and UL ER2453-01.

Berkshire® (Algae Resistant) Shingles: As manufactured by Owens Corning Roofing and Asphalt, LLC.

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1. Nominal Size: 476 mm by 965 mm.
2. Exposure: 213 mm.
3. Shingles per m2: 5 pcs
4. Coverage per pack: 1.8m2 (9 pcs)
5. Wind Resistance Warranty - 180 k/mph
6. Color: As selected from manufacturer's full range.
7. Standards/Qualifications: ASTM D228, ASTM D3018 (Type 1), ASTM D3161 (Class F Wind Resistance), ASTM D3462, ASTM D7158 (Class H Wind Resistance), ASTM E108/UL 790 (Class A Fire Resistance), ICC-ES AC438, UL ER2453-01, Florida Product Approval (FL10674), and Miami-Dade County Product Approval (10-0817.09).

4.1 HIP AND RIDGE SHINGLES

Provide hip and ridge shingles Colour formulated to complement field of roof.

Hip and Ridge with Sealant (Algae Resistant) (Metric) Shingles: As manufactured by Owens Corning Roofing and Asphalt, LLC.

1. Perforated 4 Tab shingle with factory installed cut-outs designed for fast and easy installation.
2. Nominal Size: 337 mm by 1000 mm with 143 mm exposure.
3. Piece Size: 250 mm by 337 mm.
4. Coverage per pack: 9.1 lineal metres
5. Standards/Qualifications: ASTM D228, ASTM D3018 (Type 1), ASTM D3161 (Class F Wind Resistance), ASTM D3462, ASTM E108/UL 790 (Class A Fire Resistance), CSA A123.5, ICC-ES AC438, and UL ER2453-01.

Supreme® (Metric) Shingles: As manufactured by Owens Corning Roofing and Asphalt, LLC.

1. Non perforated 3 Tab shingle that is cut into 3 individual pieces with sealant strip for hip and ridge application.
2. Nominal Size: 337 mm by 1000 mm. with 143 mm exposure.
3. Piece Size: 328mm by 337mm
4. Coverage per pack: 8.5 lineal metres
5. Standards/Qualifications: ASTM D228, ASTM D3018 (Type 1), ASTM D3161 (Class F Wind Resistance), ASTM D3462, ASTM D7158 (Class H Wind Resistance), ASTM E108/UL 790 (Class A Fire Resistance), ICC-ES AC438, and UL ER2453-01.

Berkshire® Hip and Ridge (Algae Resistant) Shingles: As manufactured by Owens Corning Roofing and Asphalt, LLC.

1. Layered construction adds performance and dimension to the hip and ridge.
2. Nominal Size: 305 mm by 305 mm with 203 mm exposure.
3. Standards/Qualifications: ASTM D228, ASTM D3018 (Type 1), ASTM D3161 (Class F Wind Resistance), ASTM D3462, ASTM E108/UL 790 (Class A Fire Resistance), CSA A123.5, ICC-ES AC438, UL ER2453-01, Florida Product Approval (FL10674), and Miami-Dade County Product Approval (10-0817.08).