Vulcan Shingles – Roofing

Overview	Vulcan Shingles are created from thermally modified New Zealand plantation timber and engineered with a patented vertical grain construction for superior weathering characteristics. A fine sawn face allows a depth of grain, and optimal weathering performance.						
	The thermal modification process combined with vertical grain structure and OPX water-based preservation system means Vulcan Shingles have enhanced stability and reduced resin content. The beautiful homogenous brown colour will silver off with exposure to weather if left uncoated.						
	Vulcan Shingles provide a unique high end architectural finish for roofing applications.						
Wood species:	Thermally Modif	ied Radiata Pin	e (Pinus Radiata).				
Standard profiles:		n/6mm tapered	- supplied as mixed I with Band Sawn f		inimum ratio of 7	0:30.	
	450x90mm		450x120mm				
	12mm/6mm tapered						
Coverage:					ate coverage s/ m²	Approximate weight kg/m ²	
	Application	Pitch ¹	Exposure ²	90mm	120mm		
	Roofing	>18º	140mm	76	58	7.7	
		of shingle left exposed are indicative only and o	to the weather after fixing. to not include allowance for prior to order.	on-site wastage, starte	er course, valleys and cap	oping.	
Packaging:	Mini-bundles of 6 pcs each, one width per bundle.						
	Pallets with approximately: – 90mm width - 1296 pcs. – 120mm width - 972 pcs.						
	One width per pallet.						
	Generally supplied as mixed widths with a minimum ratio of 70:30.						
	Supply of one width only is subject availability – please enquire prior to order.						
Carefully Crafted Timber	© Abodo Wood Ltd TD	S Technical Data Shee	t No. 69 Version Dec 23				

Vulcan Shingles – Roofing

Product specifications

Name:	Abodo Vulcan Shingles.	
Intended use:	Intended for above ground use in residential and light commercial buildings as part of a wall,	
	gable-end or roofing system greater than 18° pitch.	
Quality:	Select Grade/Front face and edges virtually free of any defects but with one edge knot and one small face defect allowed per piece in 20% of boards only. Back side with some defects allowed including skip dress or missing laminas. Being a visually graded product up to 5% may be out of grade allowing for human error.	
Finish:	Bandsawn face, back face may be smooth (Variation in sawn finish appearance can be expected)	
Durability:	Thermally modified Thermowood INTENZ 230 degrees Celsius schedule. Field tested at SCION, Rotorua. Suitable for uses described in NZS3602:2003 Table 2A 'Requirements for wood-based building to achieve a 15 year durability performance Members exposed to exterior weather conditions and dampness'. Class 2 above ground (AS5604), Durability Class 1 (EN350-1).	
Preservative treatment:	OPX – water-based azole + permethrin H3 (AS1604).	
Insect attack:	Resistant to attack from termites and borer.	
Wind zone:	Up to and including Extra High up to 1.82kps ULS.	
Serviceable life:	25 years or more when maintained according to manufacturer's recommendations.	
Warranty:	15 years against fungal decay (subject to terms and conditions).	
Moisture content:	Approx. 12% MC (+/-2%) at time of dispatch.	
Construction:	Laminated with vertical grain orientation.	
Glue:	New generation polyurethane adhesive – VOC, solvent and formaldehyde free third party certified to AS/NZS13281. Exterior Type 1– AS/NZS4364. Approved for Service Class 3 (exposed exterior applications).	
Expected dimensional		
change in structure:	Width expansion approx 2%, length expansion approx 0.25%, thickness expansion approx 2.5% (from 12%MC to fibre saturation – variation will occur between boards).	
Density:	~420 kg/m3.	
Fire:	Suitable for buildings <10m height or >1m to boundary. Designs outside this the system are subject to specific fire engineering design.	
Hardness:	Medium-Low (2.5kN Janka).	
Approx. weight:	Roof pitch >18° ~7.7 kg/m² ('light weight cladding' NZS3604).	
Thermal properties:	~0.11 W/(mK).	
pH (indicative):	3.9.	
Compatibility:	Vulcan has little or no corrosiveness on most metals though care must be taken to separate from zinc and can be placed in contact with most building materials Normal PVA, PU, MUF glues and RF resins can be used.	
Coating:	Vulcan will take most stains, penetrating oils and paints well, though up-take of coating is generally higher than normal. With out coating the shingles can be left to silver off or otherwise least two coats must be applied to the front face and edges with Abodo Protector, Sioo:x, or other approved proprietary paint or stain.	
Water collection:	Not recommended for collection of potable water.	
Patent:	NZ Pat. 601245.	
Certification:	FSC®-certified mixed, No.: SGS-COC-004944.	
Green building points: Environmental Product Declaration (EPD)	Greenstar – 2.5pts /Homestar – 2pts + 1 innovation pt. Red List Free.	
registration number:	S-P-01543.	

Vulcan Shingles – Roofing

- Do not burn treated timber. Dispose of off-cuts in lined land fill or an approved furnace.					
To be read in conjunction with the Abodo Shingles literature and full set of CAD/ PDF detail drawings available at: www.abodo.co.nz/resources					
Design must include ventilation to deal with solar-driven moisture transfer. Ventilation must be created to allow the backs of the shingles to dry out in service. This can be achieved through passive roof or wall ventilation elements to provide an air channel.					
The design requirements of ventilated roof systems are influenced by factors including roof type, building design, climatic and building code requirements. Specification of the ventilation system is outside the scope of this document.					
As a rule of thumb a ratio of 1:300, or 1m ² of vent to opening area for every 300m ² of insulated ceiling is commonly used.					
BRANZ advises "The size of the ventilation is often described as a ratio between the net free opening area of the vents to the area of the insulated ceiling. While ratios ranging from 1:150 to 1:600 can be found, 1:300 seems to be a frequently specified fraction." (BRANZ, 2018).					
Guidance can be found in these documents: BRANZ Bulletin 648 Timber Shingles and Shakes, BRANZ Roof Ventilation #4 Skillion roofs, BRANZ Roof Ventilation #1 Roof space ventilation.					
Always seek advice from a design professional prior to specification and installation.					
 Timber framing shall be in accordance with NZS3604 or otherwise a specific designed system in compliance with NZ building code. Roof pitch must be greater than 18°. 					
- Roof rafters must be spaced according to thickness of horizontal batten used:					
 19-25mm thick batten – rafters up to 600mm centres. 32-40mm thick batten – rafters up to 900mm centres. 45-50mm thick batten – rafters up to 900-1200mm centres. 					
 Install self-supporting, vapour permeable, micro porous, weather resistive flexible underlay. For highest performance use a non porous flexible underlay such as Proclima Solitex Mento. Install continuously over raters according to AS/NZS4200:2 1994 and manufacturers instructions. 					
Optional add a self sealing tape between underlay and counter battens e.g. Proclima Tescon [®] Naideck.					
 A ventilated cavity must be formed by placement of minimum 42x18mm vertical H3.1 or Vulcan timber counter-battens at max 600mm centres between rafters and horizontal timber battens. 					
 Horizontal timber battens must be minimum 88x18mm min H3.1 or H3.2 treated kiln dried pine or equivalent and spaced according to the shingle exposure dimensions to a maximum 140mm. 					
 Horizontal battens must be structurally fixed with two minimum hot dipped galvanised 90x32 flat head, ring shank nail or 90x3.15 D flat head, power driven nail to achieve 40mm fastener penetration into each stud or purlin. 					
 Divide roof height by exposure cover and make set out rod to aid with accurate installation of battens and shingles. 					
 For the first 300-400mm of roof horizontal battens must be installed with edges butted together to form a solid surface for the 'starter course'. 					

Vulcan Shingles – Roofing

1°s

10m Sar

Shingle roof application isometric

Min. 88x18mm H3.1 horizontal timber cavity battens @140mm centres max. Fixed with 2/90x32 flat head, ring shank nail or 90x3.15 flat head, power driven nails to achieve min. 40mm penetration into rafter.

Two fixings for each shingle approx 20mm from each edge and 50mm above the butt line of the next course

Roof pitches 18-30° must have 300mm strip of heavy weight absorbent underlay between each layer of shingles. Roof pitches greater than 30° do not require underlay between each laver of shingles.

Butynol flashing with 160mm cover over battens

Gutter

Selected pre-finished metal flashing to gutter / facsia

Fascia

Double first course of Abodo shingles

A starter course must be installed at base of roof consisting of a layer of shingles close butted together, with overhangs not less than following:

- Gutter line - 40mm

- Barge board - 40mm

The first course is laid directly over the starter course, off-set with minimum 38mm cover to each side of the edge joint in the underlying course and with 5-10mm spacing between shingles. Fasteners must penetrate through the starter course and into the batten.

Purlins spaced @ 600mm centres max (wider spacing may be achieved optionally by using thicker horizontal battens)

45x18mm min. H3.1 vertical timber counter-battens

Install self-supporting, vapour permeable, micro porous, weather resistive flexible underlay. For highest performance use a non-porous flexible underlay such as Pro clima SOLITEX MENTO®. Install continuously over rafters according to AS/NZS4200:2 1994 and manufacturers instructions. Optional add a self sealing tape between underlay and counter battens e.g. Proclima Tescon® Naideck

Two hot dipped galvanised nails, 40mm into roof framing

AOTH

Timber fillet fixed to horizontal cavity batten, cut to suit, to level plane of shingles.

Solid sarking for the first 300 -400mm of the roof

Roof framing

NOTE: Fix shingles with minimum 40 x 2.5mm stainless steel flat head ring shank nails to achieve minimum 19mm penetration into the batten. Stainless steel 316 must be used when the fixing head is exposed to the weather and in sea spray zones.

MinAonin

Overhand

38mm min Offset

Fixing overview

Roof pitches between 18 - 30 deg must have a 300mm strip of heavy weight absorbent _ underlay between each layer of shingles.

Roof pitches greater than 30 deg do not require underlay between each layer of shingles.

Fix shingles to horizontal timber battens with minimum 40 x 2.5mm stainless-steel flat head ring shank nails or 6g x 40mm self-drilling self-countersinking stainless-steel screws to achieve minimum 19mm penetration into the batten. Stainless steel 316 must be used when the fixing head is exposed to the weather and in sea sprav zones.

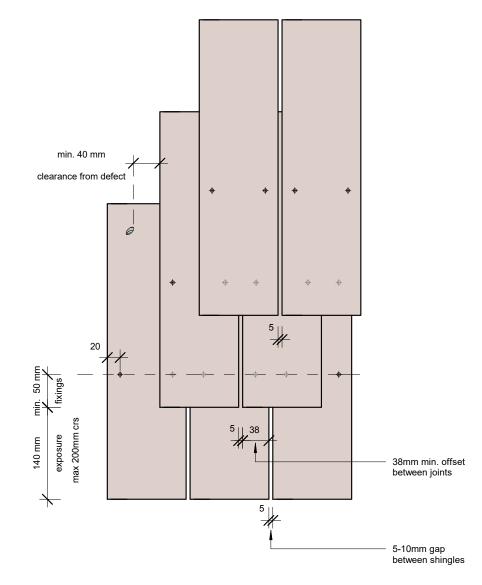
(@ ABODO

Vulcan Shingles – Roofing

Fixing overview

- Apply two fixings per shingle 20mm from side edges and 50mm above the exposure line.
 Fixings must penetrate the batten and be hand driven flush with the surface of the shingle. Do not over drive fixings.
- A starter course must be installed at base of roof consisting of a layer of shingles close butted together, with overhangs not less than following:
 - Gutter line 40mm.
 - Barge board 40mm.
- The first course is laid directly over the starter course, off-set with minimum 38mm cover to each side of the edge joint in the underlying course and with 5-10mm spacing between shingles.
 Fasteners must penetrate through the starter course and into the batten.
- The second course must maintain minimum 38mm cover to joints in the underlying course and with 5-10mm gap between edges. Fasteners must be positioned 50mm above exposure line and penetrate into the batten.
- For subsequent courses the minimum 38mm cover and 5-10mm edge gap must be maintained, ensuring that within any three courses joints are not in alignment. Shingles must be laid in a random pattern to avoid tracking of water into gaps. To achieve this the first shingle in each course can be cut to varying widths.

Shingle set out and fixings

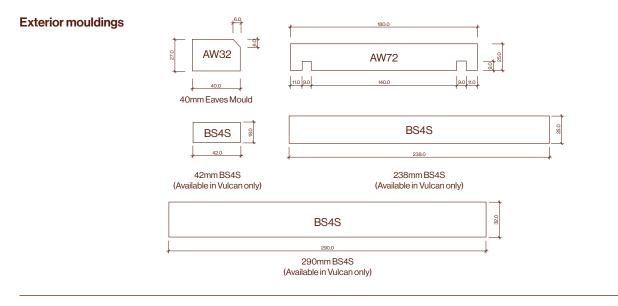


Vulcan Shingles – Roofing

requirements. As a rule of thumb a ratio of 1300, or fin ² of vent to opening area for every 300mt of insulated ceiling is commonly used. Ensure 50mm gap in underky at the ridge to allow movement of air through of the roof space and out the vent. Apply shingles and/ or metal flashing to ridge and hip. Interfaxe heavy weight, absorbant underky between each course of shingles for roof pitches between 18 - 30deg. For roof pitches over 30 deg underky between each course can be omitted. Fascia and soffits: - The bottom edge of the roof must be ventilated in line with ridge vents but with open areas alightly higher than that the ridge vents to encourage movement of air up the roof cavity. This can be achieved by inserting vents in the soffit lining, battens over mesh with gaps between board edges or construction of fascia with a cavity to allow movement of air in the roof cavity. Apply mesh or venim strips as appropriate to close of the cavity. Valleys: - Apply stainless steel, copper or buty lubber valley flashings. Fold back flashing edge underneath singles 200mm either side of the contre. Allow minimum 125mm clearance to the edges of shingles on either side. Junctions: - Apply metal flashing with minimum 150mm upstand to wall and 120mm into roof where roof meets with Welain Beshing with a barge flashing to increase weather tightness. Gable ends: - Gable ends are recommended to have minimum 300mm wide eaves. Shingles must project minimum 40mm past the barge bab card at shingles into this. In exposed atuations bury to soakers can be interfaced in between the shingles. turned over the barge board, and covered with a barge flashing to increase we	Finishing of roofing	
- Ensure Somm gap in underlay at the ridge to allow movement of air through of the roof space and out the vent. - Apply shingles and/or metal flashing to ridge and hip. - Interleave heavy weight, absorbent underlay between each course of shingles for roof pitches between 18 - 300 deg, inderlay between each course can be omitted. - The bottom edge of the roof must be ventilated in line with ridge vents but with open area slightly higher than at the ridge vent to encourage movement of air in the roof cavity. This can be achieved by inserting vents in the soft lining, battens over mesh with gaps between bard edges or construction of fascia with a cavity to allow movement of air into the roof cavity. Apply mesh or vermin strips as appropriate to close of the cavity. Valleys: - Apply stainless tele, cooper or budy nubber valley flashings. Fold back flashing edge underneath singles 200mm either side. Junctions: - Apply metal flashings that minimum 150mm upstand to wall and 120mm into roof where roof meets wall. Metal flashings may also be applied on top of shingles to direct water to outside fac of the shingles. Gable ends: - Gable ends are recommended to have minimum 300mm wide eaves. - Shingles must project minimum 40mm past the barge board. - Apply compressible EPDM sealant strip to top of barge board and at shingles into this. - In exposed situations budy isolaters can be interlaced in between the shingles. turned over the barge board, and covered with a barge teshingle to increase weather t	Ridges and hips:	 Ridges and hips must be ventilated using a vent system to conform with specified air circulation requirements. As a rule of thumb a ratio of 1:300, or 1m² of vent to opening area for every 300m² of insulated ceiling is commonly used.
 Apply shingles and/ or metal flashing to ridge and hip. Interleave heavy welget, basychent underlay between each course of shingles for roof pitches between 18-3 welget, For roof pitches over 30 deg underlay between each course can be omitted. The bottom edge of the roof must be ventilated in line with ridge vents but with open area slightly higher than at the ridge vent to encourage movement of air up the roof cavity. This can be achieved by inserting vents in the soft lining, battens over mesh with gaps between board edges or construction of fascia with a cavity to allow movement of air into the roof cavity. Apply mesh or vermin strips as appropriate to close off the cavity. Apply stainless steel, copper or butyl nubber valley flashings. Fold back flashing edge underneath singles 200mm either side. Junctions: Apply metal flashings the soft. Apply ataliness are recommended to have minimum 300mm wide eaves. Shingles must project minimum 40mm past the barge board. Apply or past flashings roject minimum 40mm past the barge board. Apply or past flashings roject minimum 40mm past the barge board. Apply or past flashings are recommended to have minimum 300mm wide eaves. Shingles must project minimum 40mm past the barge board. Apply compressible EPDM sealant strip to top of barge board and sit shingles into this. In exposed situations butyl soakers can be intraced in between the shingles, turned over the barge board, and covered with a barge flashing to linerase weather tightness. Ensure 26mm clearance around projection. Costing Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-rery colour. Clear non-pigmented coating will also change in a silma manner. Optionally apply at least two coats of Protector, Sicox or		- Ensure 50mm gap in underlay at the ridge to allow movement of air through of the roof space
 Interleave heavy weight, absorbent underlay between each course can be between 18 - 30deg. For roof pitches over 30 deg underlay between each course can be omitted. The bottom edge of the roof must be ventilated in line with ridge vents but with open area slightly higher than at the ridge vent to encourse gemovement of air up the roof cavity. Apply mesh or vermin strips as appropriate to close of the cavity. Valleys: Apply stainless steel, copper or buty rubber valley flashings. Fold back flashing edge undernew highes 20mm either side of the cavity. Junctions: Apply stainless teel, copper or buty rubber valley flashings. Fold back flashing edge undernew highes 20mm either side of the cavity. Junctions: Apply stainless teel copper or buty rubber valley flashings. Fold back flashing edge undernew highes 20mm either side of the cavity. Gable ends: Gable ends are recommended to have minimum 30mm wide eaves. Shingles must project minimum 40mm past the barge board. Apply compressible EPDM sealant strip to top of barge board and sit shingles into this. In exposed situations buty isoakers can be interlaced in between the shingles. Bus buty invations and in a silver grey colour. Clear non-pigmented coatings will also change in a silver grey colour. Clear non-pigmented coatings will also change in a silver grey colour. Clear non-pigmented coatings will also change in a silver grey colour. Optionally apply at least two coats of Protector. Sicox or latex paint within 60 days after installation according to manufacturer's instructions. Paint finishes may require application of a primer prior to top coats depending on manufacturer' recommendations. Ensure simples are clean and bry max 12% MC prior to coating. Paint finishes may require application of a primer prior to top coats depending on manufacturer' rec		
slightly higher than at the ridge vent to encourage movement of air up the roof cavity. This can be achieved by inserting vents in the sofit lining, battens over mesh with gaps between board edges or construction of facial with a cavity to allow movement of air into the roof cavity, Apply mesh or vermin strips as appropriate to close off the cavity. Valleys: – Apply stainless steel, copper or buly rlubber valley flashings. Fold back flashing edge underneath singles 200mm either side of the cavity. Junctions: – Apply metal flashing with minimum f50mm upstand to wall and 120mm into roof where roof meets wall. Metal flashings may also be applied on top of shingles to direct water to outside fac of the shingles. Gable ends: – Gable ends are recommended to have minimum 300mm wide eaves. Shingles must project minimum 40mm past the barge board. – Apply compressible EPDM sealant strip to top of barge board and shingles into this. In nexpose distuations buly losakers can be knewen the shingles, turned over the barge board, and covered with a barge flashing to increase weather tightness. Roof penetrations: – Ensure penetrations are in place prior to shingles being applied. Use buly rubber and metal flashings to make watertight. – Ensure 25mm clearance around projection. Coating – Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also charge in a similar manner. Optionally apply at least two coats of Protector, Sioox or latex paint within 60 days after installation		 Interleave heavy weight, absorbent underlay between each course of shingles for roof pitches between 18 - 30deg. For roof pitches over 30 deg underlay between each course can be
underneath singles 200mm either side. Junctions: Apply metal flashing with minimum fISOmm upstand to wall and 120mm into roof where roof meets wall. Metal flashing with minimum fISOmm upstand to wall and 120mm into roof where roof meets wall. Metal flashing with minimum fISOmm upstand to wall and 120mm into roof where roof meets wall. Metal flashing with minimum fISOmm past the barge board. Gable ends are recommended to have minimum 300mm wide eaves. Shingles must project inimum 40mm past the barge board. Apply compressible EPDM sealant strip to top of barge board and sit shingles into this. In exposed situations butyl soakers can be interfaced in between the shingles, turned over the barge board, and covered with a barge flashing to increase weather tightness. Roof penetrations: Ensure penetrations are in place prior to shingles being applied. Use butyl rubber and metal flashings to make watertight. Ensure 25mm clearance around projection. Coating Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. Optionally apply at least two coats of Protector, Sioox or latex paint within 60 days after installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer recommend	Fascia and soffits:	slightly higher than at the ridge vent to encourage movement of air up the roof cavity. This can be achieved by inserting vents in the soffit lining, battens over mesh with gaps between board edges or construction of fascia with a cavity to allow movement of air into the roof cavity. Apply
meets wall. Metal flashings may also be applied on top of shingles to direct water to outside fac of the shingles. Gable ends: - Gable ends: - Gable ends: - Gable ands are recommended to have minimum 300mm wide eaves. Shingles must project minimum 40mm past the barge board. Apply compressible EPDM sealant strip to top of barge board and sit shingles into this. In exposed situations butyl soakers can be interlaced in between the shingles, turned over the barge board, and covered with a barge flashing to increase weather tightness. Roof penetrations: Ensure penetrations are in place prior to shingles being applied. Use butyl rubber and metal flashings to make watertight. Ensure 25mm clearance around projection. Coating - Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. - Optionally apply at least two coats of Protector, Sioox or latex paint within 60 days after installation according to manufacturer's instructions. - To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. - Paint finishes may require application of a primer prior to topcoats depending on manufacturer' recommendations. Ensure shingles are clean a	Valleys:	 Apply stainless steel, copper or butyl rubber valley flashings. Fold back flashing edge underneath singles 200mm either side of the centre. Allow minimum 125mm clearance to the
 Shingles must project minimum 40mm past the barge board. Apply compressible EPDM sealant strip to top of barge board and sit shingles into this. In exposed situations butyl soakers can be interfaced in between the shingles, turned over the barge board, and covered with a barge flashing to increase weather tightness. Roof penetrations: Ensure penetrations are in place prior to shingles being applied. Use butyl rubber and metal flashings to make watertight. Ensure 25mm clearance around projection. Coating Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. Optionally apply at least two coats of Protector, Sioox or latex paint within 60 days after installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer' recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. For heavily solled or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will light	Junctions:	meets wall. Metal flashings may also be applied on top of shingles to direct water to outside face
 Apply compressible EPDM sealant strip to top of barge board and sit shingles into this. In exposed situations butyl soakers can be interlaced in between the shingles, turned over the barge board, and covered with a barge flashing to increase weather tightness. Ensure penetrations are in place prior to shingles being applied. Use butyl rubber and metal flashings to make watertight. Ensure 25mm clearance around projection. Coating Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. Optionally apply at least two coats of Protector, Sioox or latex paint within 60 days after installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer' recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. For heavily solied or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weathert grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo: xor Paint finish) or as required to maintain colour and integrit	Gable ends:	 Gable ends are recommended to have minimum 300mm wide eaves.
 In exposed situations butyl soakers can be interlaced in between the shingles, turned over the barge board, and covered with a barge flashing to increase weather tightness. Ensure penetrations are in place prior to shingles being applied. Use butyl rubber and metal flashings to make watertight. Ensure 25mm clearance around projection. Coating Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. Optionally apply at least two coats of Protector, Sioox or latex paint within 60 days after installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldicide. Ensure leaves and debris are not allowed to accumulate on weather dipthress of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish). 5-7 years (Sicox or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or posi		- Shingles must project minimum 40mm past the barge board.
Barge board, and covered with a barge flashing to increase weather tightness. Roof penetrations: Ensure penetrations are in place prior to shingles being applied. Use buty/ hubber and metal flashings to make watertight. Ensure 25mm clearance around projection. Coating Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. Optionally apply at least two coats of Protector, Sioo:x or latex paint within 60 days after installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. For heavily solied or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey co		- Apply compressible EPDM sealant strip to top of barge board and sit shingles into this.
 Ensure penetrations: Ensure penetrations are in place prior to shingles being applied. Use butyl rubber and metal flashings to make watertight. Ensure 25mm clearance around projection. Coating Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. Optionally apply at least two coats of Protector, Sioo:x or latex paint within 60 days after installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. For heavily solled or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain wathert ightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (coli finish). 5-7 years (Sloo.x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		- In exposed situations butyl soakers can be interlaced in between the shingles, turned over the
 Use butyl rubber and metal flashings to make watertight. Ensure 25mm clearance around projection. Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. Optionally apply at least two coats of Protector, Sioo:x or latex paint within 60 days after installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer' recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. For heavily soiled or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo: or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		barge board, and covered with a barge flashing to increase weather tightness.
 Ensure 25mm clearance around projection. Without application of a pigmented coating the shingles will lighten with exposure to the weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. Optionally apply at least two coats of Protector, Sioo:x or latex paint within 60 days after installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer' recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. 	Roof penetrations:	
 weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also change in a similar manner. Optionally apply at least two coats of Protector, Sioo:x or latex paint within 60 days after installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer' recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. For heavily solied or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		
 installation according to manufacturer's instructions. To maintain colour a pigmented coating must be used, however maintenance re-coats will be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer' recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. For heavily soiled or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 	Coating	weather, eventually becoming a silver-grey colour. Clear non-pigmented coatings will also
 be required periodically, so ease of access must be considered when specifying this for roof application. Paint finishes may require application of a primer prior to topcoats depending on manufacturer recommendations. Ensure shingles are clean and dry max 12% MC prior to coating. Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. For heavily soiled or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		
 Maintenance Wash down every 12 months with gentle detergent, water and soft brush. Rinse with low pressure water only. Water blasting is not permitted. For heavily soiled or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		be required periodically, so ease of access must be considered when specifying this for roof
 Rinse with low pressure water only. Water blasting is not permitted. For heavily soiled or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		·
 For heavily soiled or mouldy areas use Rejuvenator or similar timber cleaner and apply active mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 	Maintenance	- Wash down every 12 months with gentle detergent, water and soft brush.
 mouldicide. Ensure leaves and debris are not allowed to accumulate on or around the shingles. Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		
 Make a maintenance check every two summers. Check all shingles, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		mouldicide.
 mouldings and replace or remediate as required to maintain weather tightness of the system. Over time uncoated shingles will lighten and change to a weathered grey colour. If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		
 If coated re-coat approximately every 2-3 years (oil finish), 5-7 years (Sioo:x or Paint finish) or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun. 		mouldings and replace or remediate as required to maintain weather tightness of the system.
as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of shingles to the sun.		
Carefully Crafted Timber © Abodo Wood Ltd TDS Technical Data Sheet No. 69 Version Dec 23		as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter
	Carefully Crafted Timber	© Abodo Wood Ltd TDS Technical Data Sheet No. 69 Version Dec 23

(a ABODO

Vulcan Shingles – Roofing



Accessories

Abodo Protector 4L, 10L:



Sioo:x-Step 1/Step 2,5L:



- **P** +6492490100
- E info@abodo.co.nz
- W abodo.co.nz