

LA ESCANDELLA

technical manual





La Escandella

technical manual

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Fixing Requirements for Tiles & Accessories

TABLE 1
AS 2050 Wind Classification and Maximum Design Gust Wind Speed

Wind Classification	Maximum Design Gust Wind Speed (m/s)	
	Serviceability Limit State (Vs)	Ultimate Limit State (Vu)
N1	26	34
N2	26	40
N3C1	32	50
N4C2	39	61
C3	47	74

Note: Wind classifications in Table 1 are as defined in AS 4055

TABLE 2
Minimum Mechanical Installation Requirements for Tiles and Ancillaries

Wind Classification	Tile Installation		Ancillary Wind Installation (See Figures 1 & 2)
	Edge Of Roof	Field Of Roof	Ridge, Hip And Barge Tiles
N1 and N2	Mechanically fasten each full tile in second course and then every second tile in every course or every tile in each alternate course.		Mechanically fasten every tile
N3	Mechanically fasten each full tile in second course	Mechanically fasten each second full tile in every course	Mechanically fasten every tile
N4	Mechanically fasten each full tile	Mechanically fasten every full tile	Mechanically fasten every tile
C1	Mechanically fasten every full tile	Mechanically fasten each second full tile in every course	Mechanically fasten every tile
C2/C3	Mechanically fasten every full tile	Mechanically fasten every full tile	Mechanically fasten every tile

Notes:

1. Laboratory testing has shown that only a minor deflection of truly adherent mortar will result in a breakage of either, or both, ridge or tile upon deflection of the roof. In most instances of mortar bedding and pointing, a truly long-term adherent bond does not exist. Experience has shown that roofs in practice deflect and mortar does inevitably break. Therefore, mortar bonding should not be used as a minimum mechanical installation.
2. For pitches over 35°, extra precautions shall be taken. Refer to tile manufacturer for technical recommendations.
3. For values greater than C3, refer to manufacturer's recommendations.
4. All tiles fixed in C2 or C3 rated sites must not use flexible pointing material, even where labelled as a mechanical fixing product, as the sole means of fixing ridge and hip tiles. All such tiles must now be fixed with an approved clip or screw, or such other method as advised by your tile manufacturer.

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Fixing Requirements for Tiles & Accessories

Bristle Roofing clay roof tiles are manufactured and tested to cope with a varied range of weather conditions. Factors that can affect the design of your roof include:

Selecting the Roof Tile

The water courses formed in the body of a shaped/profiled roof tile prevent water from entering the side lap weather channel.

Flat roof tiles that do not feature water courses have greater potential to experience side lap weather channel inundation.

The shape of a tile should be considered carefully, particularly on roofs that are built in exposed areas where high winds and rainfall are common.

The Pitch of the Roof

The pitch of the roof affects the speed of water flow down the roof plane. The greater the pitch, the faster the

water will drain, conversely roofs with less pitch will drain more slowly and water depth, particularly towards the bottom of the roof, may be increased.

Tiling is not recommended for a roof pitch below 15 degrees without special safeguards being put in place. AS 2050 states where it is intended to fix tiles to roofs with a pitch of less than 15 degrees, the tile manufacturer's advice should be adhered to.

Sarking is a pliable foil installed prior to fixing the roof battens. Sarking acts as insulation keeping your home cool and free from dust as well as acting as a secondary water catchment.

Your Bristle Roofing representative should be consulted when choosing the correct grade of sarking for your roof design. Table 3 (below) identifies the minimum roof pitch at which Bristle Roofing tiles are to be installed, showing each region with and without the need for sarking.

TABLE 3
Minimum Pitches for Fixing La Escandella Ranges

La Escandella Roof Tile	Minimum Without Sark	Minimum With Sark
Curvado/Curvado Glazed	20°	15°
Planum	n/a	15°
Marseille	20°	15°
Vienna	20°	15°
Visum3	n/a	25° *
Medio Curva	n/a	10° **
La Escandella Innova	20°	15°

* Breathable membrane to be used regardless of pitch

** Rigid Underlay used instead of sarking up to 27° degrees. 28°+ install on battens and sarked compulsory.

Note: Roofs with pitches of less than 20° with sarking installed require Anti Ponding Boards to be fitted.

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Rafter Lengths and Pitches

The minimum roof pitch recommended can be influenced by the water run off depth. Extremely long runs accumulate water to a considerable depth at the bottom of the run, particularly at low pitches, and in heavy rainfall conditions.

It is for this reason that Bristle Roofing recommends that any roof with rafter lengths in excess of 4.5 metres should be built at a pitch greater than the minimum stated in Table 7 on page 5 of this manual. The specified pitch should increase by 2° for every additional metre of rafter length.

Informative Notes in AS 2050 "Installation of Roof Tiles", state: "Long rafter lengths may require sarking to prevent inundation of the roof.

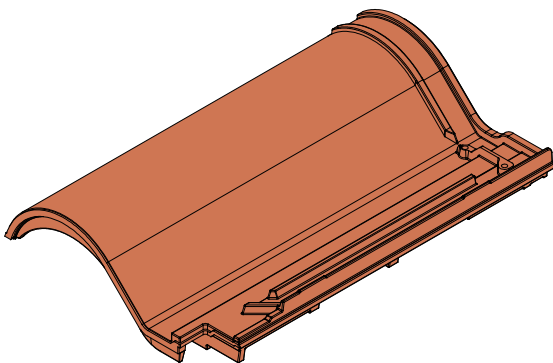
These lengths may vary according to the tile profile used, the pitch of the roof and the exposure. The manufacturer's specification should be consulted." Table 4 indicates the maximum rafter lengths after which sarking must be installed to the area of roof that exceeds the noted maximum length.

TABLE 4
Sarking Requirements in Relation to Pitch/Rafter Length

Roof - Degrees of Pitch	Maximum Rafter Length Without Sarking (mm)
≥18 < 20	4.5
≥20 < 22	5.5
≥22	6.0



La Escandella Curvado



The Curvado range captures a look of grandeur with a distinctively European style.

A roof tile conceived to satisfy the needs and preferences of building professionals, the Curvado offers a variety of features which guarantee enduring popularity with home builders seeking a European style.

Manufactured from the highest quality clays, the Curvado incorporates a modern interlocking design which replicates the traditional pan and cover tile that has been a hallmark of European and Mediterranean architecture for centuries.



La Escandella

Curvado

Curvado Product Specification

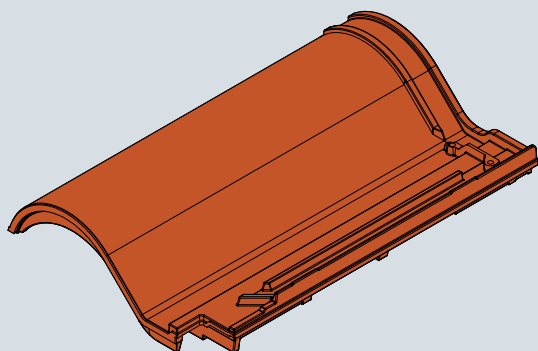
Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Optimum Set Out:	400mm (+/- 5mm)
First Batten:	370mm (top of batten)
Sarking:	As noted in "Min Pitch" above
Dimensions:	470mm x 286mm x 75mm
Weight:	3.9kg
Layed:	Straight Bonded
Tiles Per m2:	11.40
Weight per M ² :	44.46kg
Cuts per LM:	3
Ridges per LM:	2.5
Batten per M ² :	2.9
Batten:	600 Centres - 40 x 25 HWD (QLD) / 38 x 38 Pine (NSW, ACT, VIC, SA, TAS) / 38 x 25 Karri (WA) 900 Centres - 50 x 38 HWD (QLD, NSW, ACT, VIC, SA, TAS)
Fixing:	Head Lap Clip or Nailed
Pallet Quantity:	240 /180

Curvado Fittings

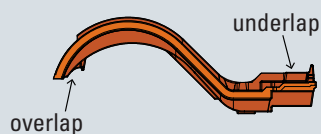
Ridges	Apex	End Cap	Double Roll	Barges	Extras
					
Q02 Round Ridge	Q44 Round 3 Way Apex Ridge	Q83 Round Hip End Ridge Cap	Q33 Double Large Roof Tile (One per course on the left side) only)	Q12 Round LHS Course	Q10 Straight LHS Course
					
Q04 Round Hip End Ridge	Q45 Round 4 Way Apex Ridge			Q13 Round RHS Course	Q11 Straight LHS Course

La Escandella Curvado

Curvado Product & Test Specification



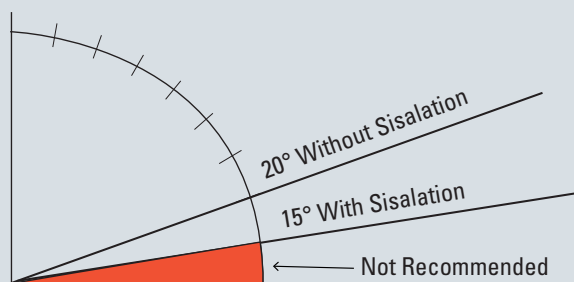
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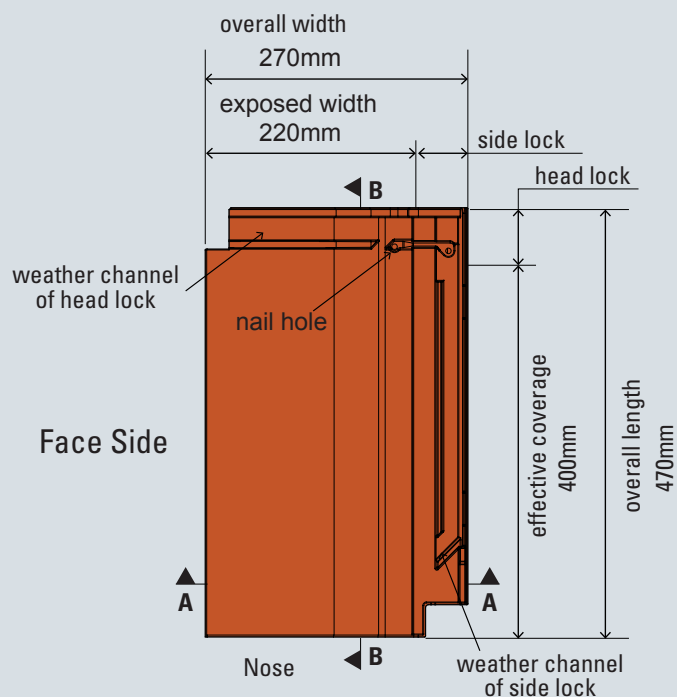
Section - A-A



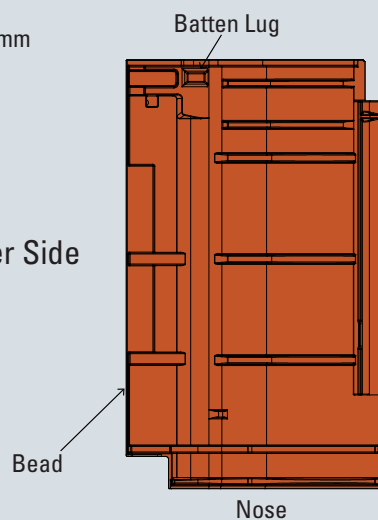
Section - B-B



Roof Pitch



Under Side

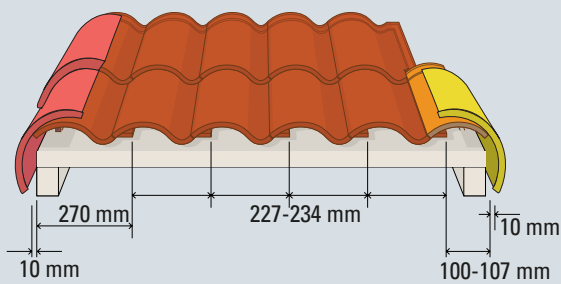
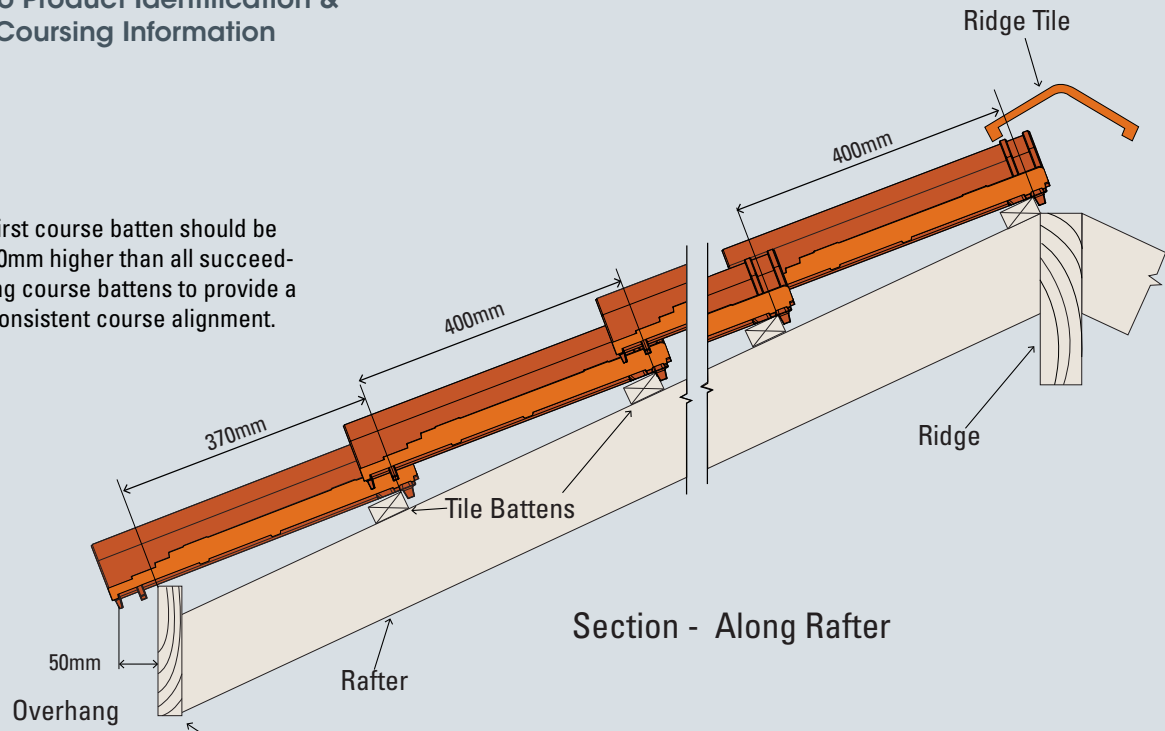


Testing Standard	Test Description	Std Tolerance	Average Curvado Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Curvado tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
EN - 539-2	Water Absorption	<10%	
EN - 539-1	Permeability	Two hour test	
EN - 539-1&2	Freeze / Thaw	150 cycles	
AS - 4046.7	Resistance to Salt Attack	Exposure	
AS - 4046.8	Dynamic weather resistance	Calibrated Datum	

La Escandella Curvado

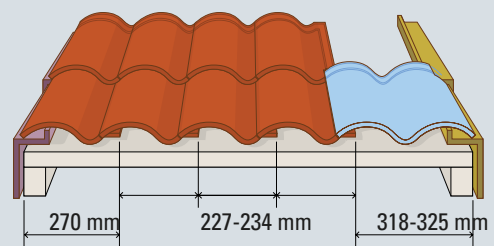
Curvado Product Identification & Layout Coursing Information

First course batten should be 20mm higher than all succeeding course battens to provide a consistent course alignment.



Half tile roof laying

- Curvado roof tile
- Q12 Round LHS course
- Q13 Round RHS course
- Half tile (Cut on site)

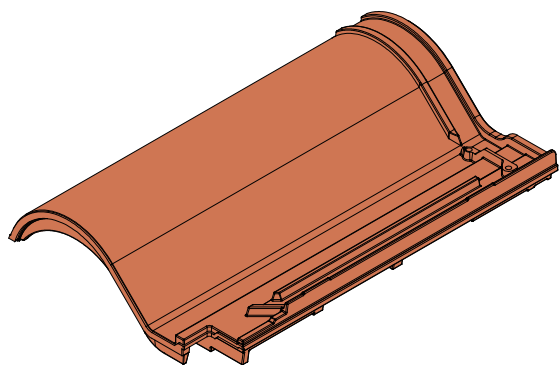


Double roll roof tile laying

- Curvado roof tile
- Q10 Straight LHS course
- Q11 Straight RHS course
- Q33 Double Roll Tile

La Escandella

Curvado Glazed



For a bold, eye catching tile in colours designed to reflect your character, Bristle Roofing offers the Curvado Glazed range.

A roof tile conceived to satisfy the needs and preferences of building professionals, the Curvado Glazed tile is available in two sizes and has a variety of features which guarantee enduring popularity with home builders seeking a European style.

Manufactured from the highest quality clays, the Curvado Glazed incorporates a modern interlocking design which replicates the traditional pan and cover tile that has been a hallmark of European and Mediterranean architecture for centuries.


La Escandella

Curvado Glazed

Curvado Glazed Product Specification

Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Optimum Set Out:	400mm (+/- 5mm)
First Batten:	370mm (top of batten)
Sarking:	As noted in "Min Pitch" above
Dimensions:	470mm x 286mm x 75mm
Weight:	3.9kg
Layed:	Straight Bonded
Tiles Per m2:	11.40
Weight per M²:	44.46kg
Cuts per LM:	3
Ridges per LM:	2.5
Batten per M²:	2.9
Batten:	600 Centres - 40 x 25 HWD (QLD) / 38 x 38 Pine (NSW, ACT, VIC, SA, TAS) / 38 x 25 Karri (WA) 900 Centres - 50 x 38 HWD (QLD, NSW, ACT, VIC, SA, TAS)
Fixing:	Head Lap Clip or Nailed
Pallet Quantity:	240 / 180

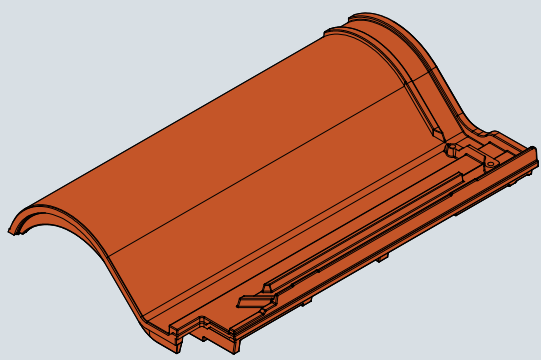
Curvado Glazed Fittings

Ridges	Apex	End Cap	Double Roll	Barges	Extras
					
EQ02 Round Ridge	Q45 Round 4 Way Apex Ridge OR Mitre Ridges and Flash	EQ83 Round Hip End Ridge Cap	EQ33 Double Large Roof Tile (One per course on the left side) only	Q12 Round LHS Course	EQ10 Straight LHS Course
					
EQ04 Round Hip End Ridge	Q44 Round 3 Way Apex Ridge			Q13 Round RHS Course	EQ11 Straight RHS Course

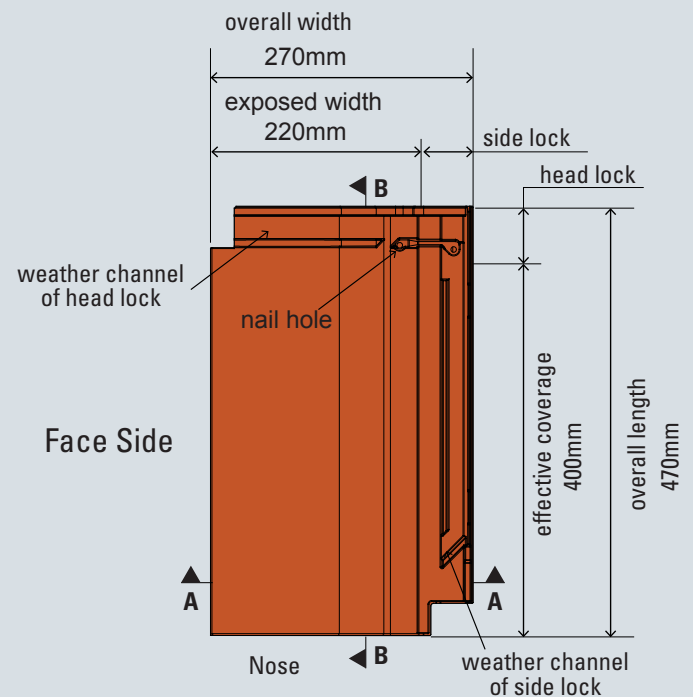
La Escandella

Curvado Glazed

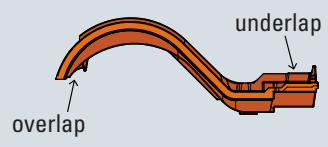
Curvado Glazed Product & Test Specification



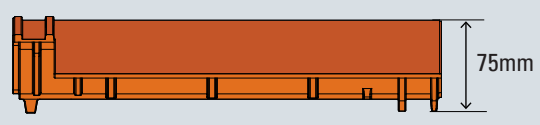
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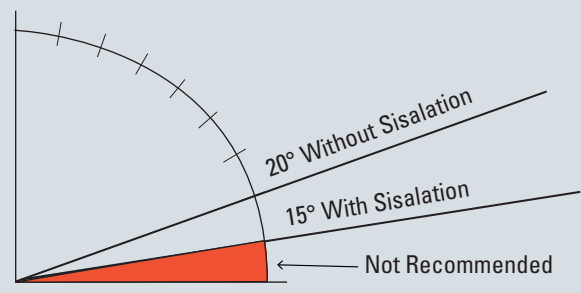
Face Side



Section - A-A

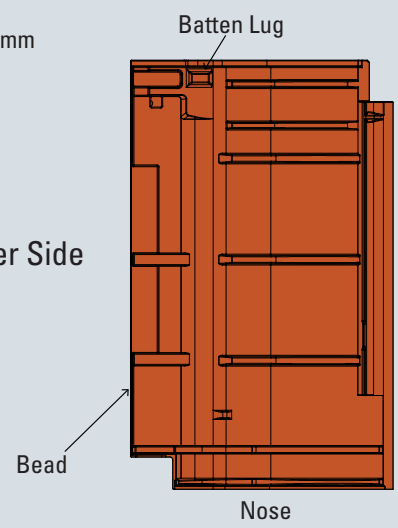


Section - B-B



Roof Pitch

Under Side



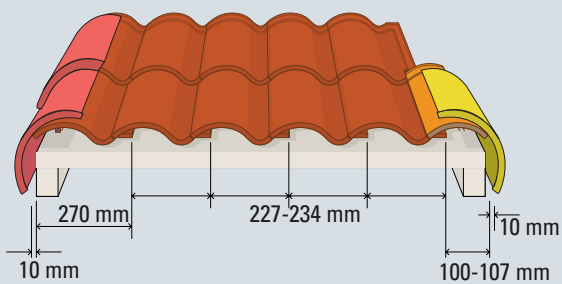
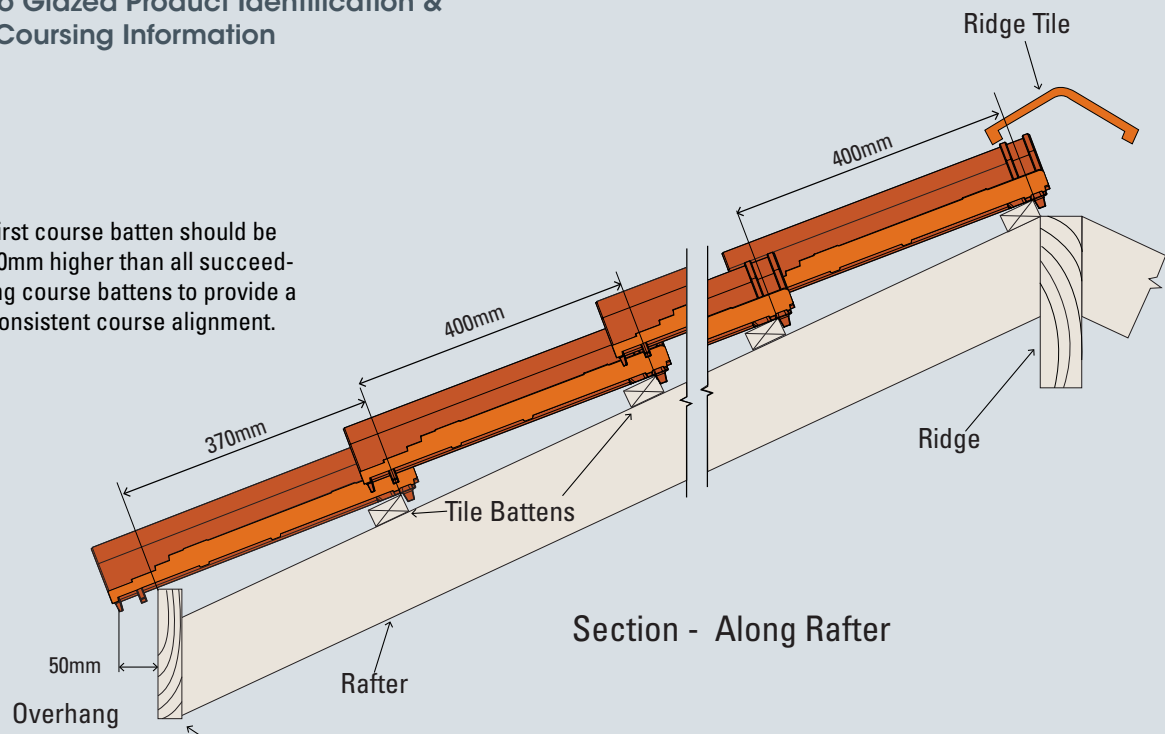
Testing Standard	Test Description	Std Tolerance	Average Curvado Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Curvado tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
EN - 539-2	Water Absorption	<10%	
EN - 539-1	Permeability	Two hour test	
EN - 539-1&2	Freeze / Thaw	150 cycles	
AS - 4046.7	Resistance to Salt Attack	Exposure	
AS - 4046.8	Dynamic weather resistance	Calibrated Datum	

La Escandella

Curvado Glazed

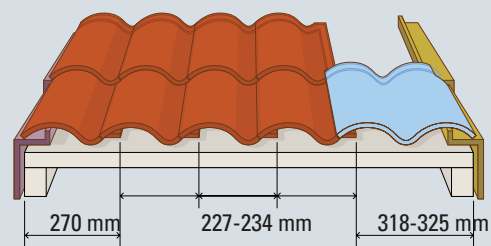
Curvado Glazed Product Identification & Layout Coursing Information

First course batten should be 20mm higher than all succeeding course battens to provide a consistent course alignment.



Half tile roof laying

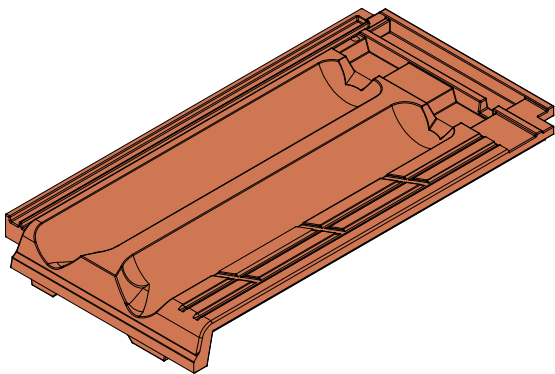
- Curvado roof tile
- Q12 Round LHS course
- Q13 Round RHS course
- Half tile (Cut on site)



Double roll roof tile laying

- Curvado roof tile
- Q10 Straight LHS course
- Q11 Straight RHS course
- Q33 Double Roll Tile

La Escandella Marseille



Originating from France, the Marseille tile offers versatility and simplicity in a classic style clay roof tile.

The Marseille tile continues the proud tradition of the tile maker's craft with a tile that suits a range of architectural styles.

The combination of its sharp clean lines and natural colour palette result in a roof tile with a timeless look and unmistakable style. Offering the colour longevity, strength, and durability of clay, the Marseille is ideal for homes of distinction.

La Escandella Marseille

Marseille Product Specification

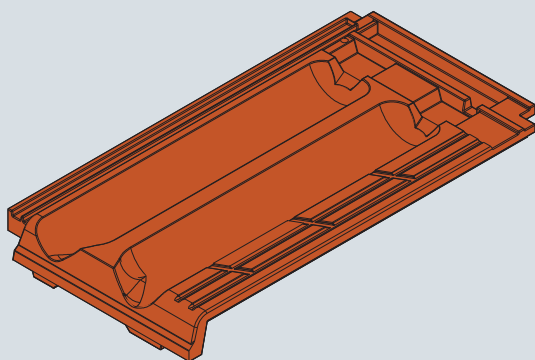
Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Optimum Set Out:	398mm (+/- 5mm)
First Batten:	370mm (top of batten)
Sarking:	As noted in "Min Pitch" above
Dimensions:	466mm x 260mm x 55mm
Weight:	3.6kg
Layed:	Cross Bonded
Tiles Per m2:	11.1
Weight per M ² :	39.96kg
Cuts per LM:	3
Ridges per LM:	2.5
Batten per M ² :	2.9
Batten:	600 Centres - 40 x 25 HWD (QLD) / 38 x 38 Pine (NSW, ACT, VIC, SA, TAS) / 38 x 25 Karri (WA) 900 Centres - 50 x 38 HWD (QLD, NSW, ACT, VIC, SA, TAS)
Fixing:	Head Lap Clip or Nailed
Pallet Quantity:	240 / 180

Grande Fittings

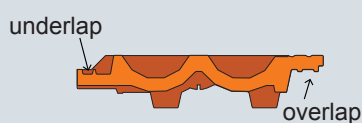
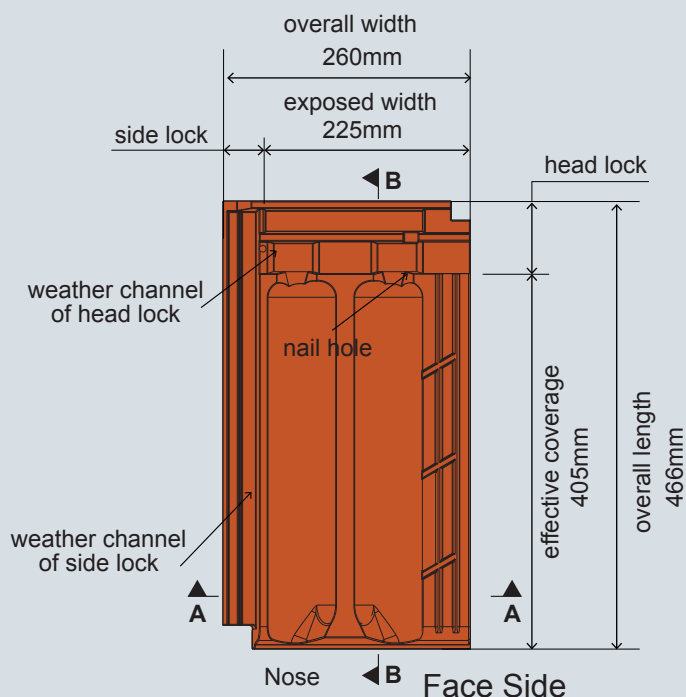
Ridges	Apex	Hip End	Double Roll	Barges	Extras
					
Q110 Standard Ridge	Q111 Standard 3 Way Apex Ridge	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	Q21 Ventilation Tile

La Escandella Marseille

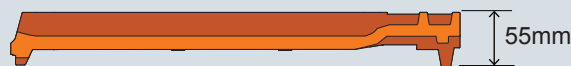
Marseille Product & Test Specification



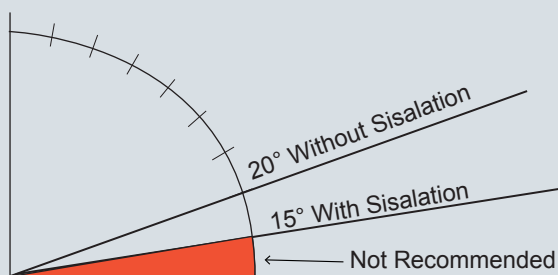
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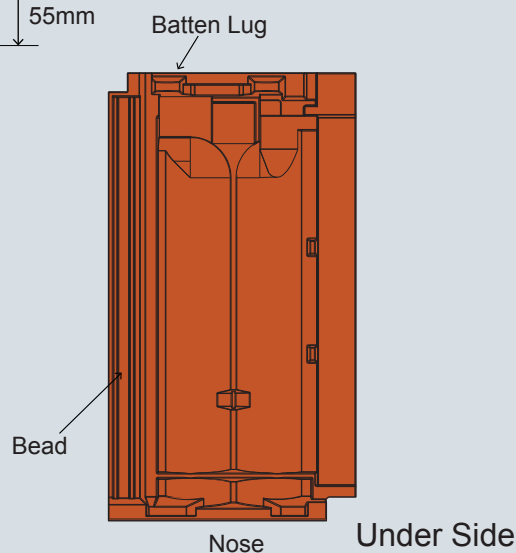
Section - A-A



Section - B-B



Roof Pitch

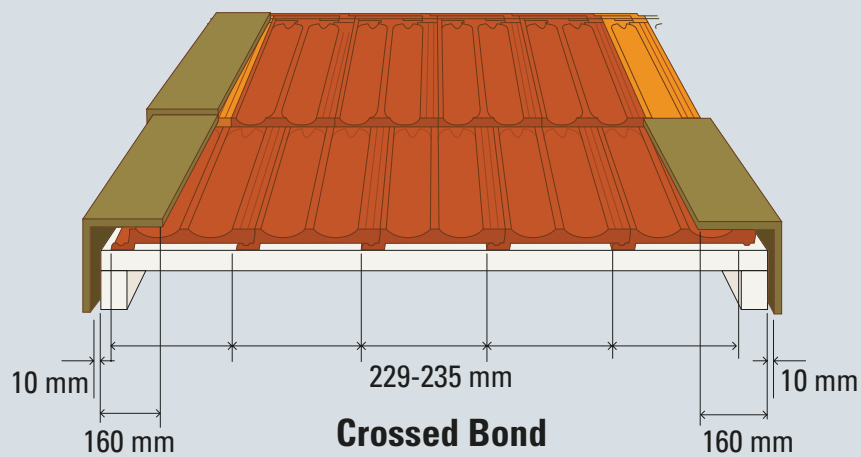
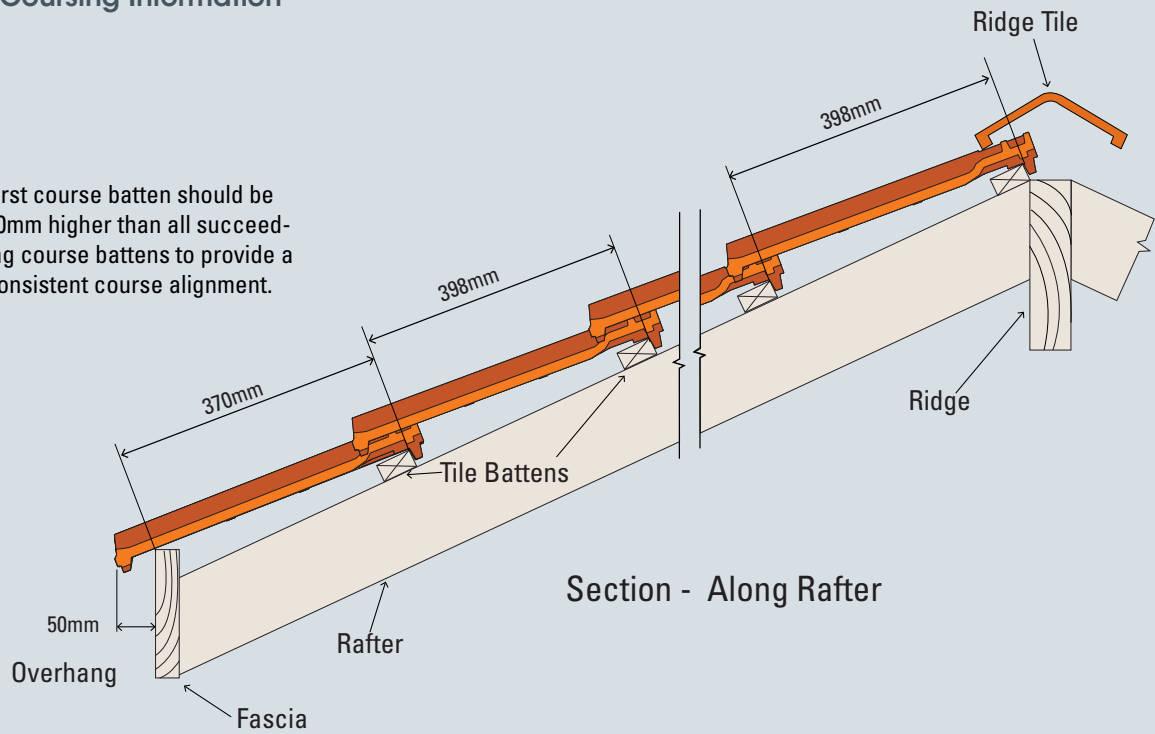


Testing Standard	Test Description	Std Tolerance	Average Marseille Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Grande tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
EN - 539-2	Water Absorption	<10%	
EN - 539-1	Permeability	Two hour test	
EN - 539-1&2	Freeze / Thaw	150 cycles	
AS - 4046.7	Resistance to Salt Attack	Exposure	
AS - 4046.8	Dynamic weather resistance	Calibrated Datum	

La Escandella Marseille

Marseille Product Identification & Layout Coursing Information

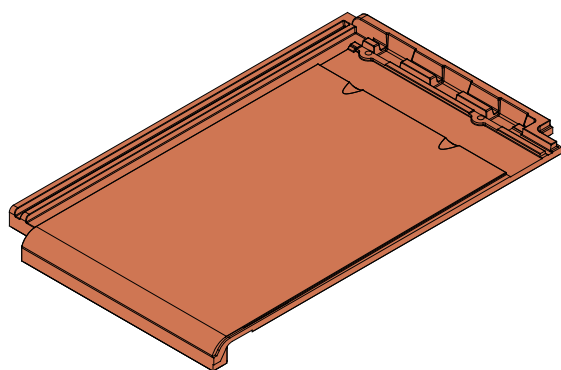
First course batten should be 20mm higher than all succeeding course battens to provide a consistent course alignment.



Marseille Cross bond pattern

- Marseille tile
- Q91 Pyramid Ridge
- Half tile (Cut on site)

La Escandella Planum



Aesthetics and functionality are brought together in the Planum range, a collection of tiles that combines a traditional roofing material with contemporary architectural style.

Planum creates a look of simplicity and elegance aged and monotone colour options developed to complement the sleek, refined shape of the tile.

Due to its innovative design and size, the Planum tile is faster and easier to install, lowering installation time and costs. Furthermore the highly weatherproof design means it can be applied to roof pitches as low as twenty degrees.

La Escandella

Planum

Planum Product Specification

Product Specification	
Min Pitch:	15 Degrees with Sarking
Optimum Set Out:	365mm (+/- 5mm)
First Batten:	360mm (top of batten)
Sarking:	As noted in "Min Pitch" above
Dimensions:	440mm x 280mm x 32mm
Weight:	3.5kg
Layed:	Cross Bonded
Tiles Per m2:	11.7
Weight per M²:	38.5kg
Cuts per LM:	3.5
Ridges per LM:	2.5
Batten per M²:	3.2
Batten:	600 Centres - 40 x 25 HWD (QLD) / 38 x 38 Pine (NSW, ACT, VIC, SA, TAS) / 38 x 25 Karri (WA) 900 Centres - 50 x 38 HWD (QLD, NSW, ACT, VIC, SA, TAS)
Fixing:	Head Lap Clip or Nailed
Pallet Quantity:	240 / 320

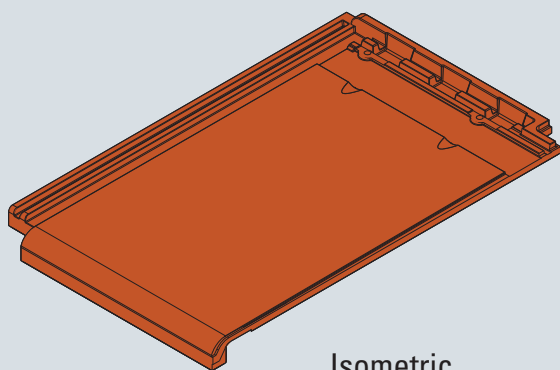
Planum Fittings

Ridges	Apex	Hip End	Double Roll	Barges	Extras
					
Q90 Collarless Ridge	Q111 Collarless 3 Way Apex (QLD Only)	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	Q86 Ventilation Tile

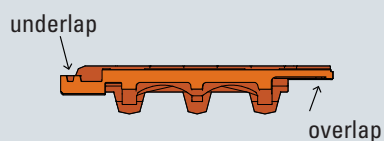
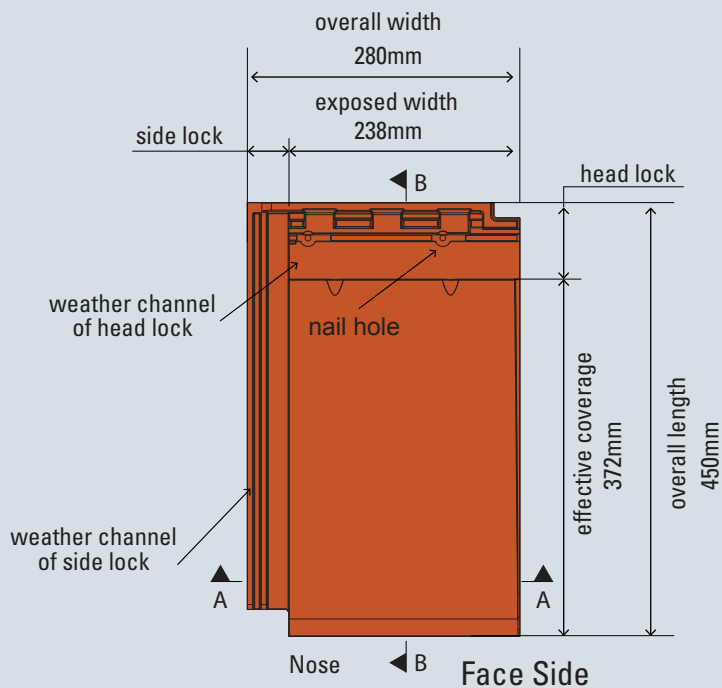
La Escandella

Planum

Planum Product & Test Specification



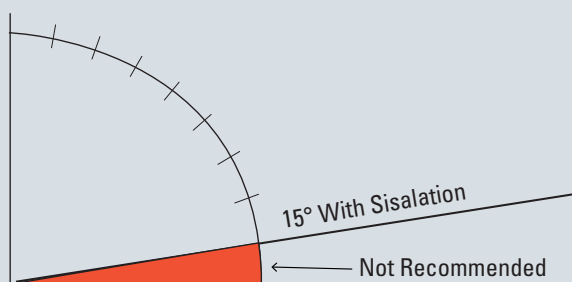
Isometric



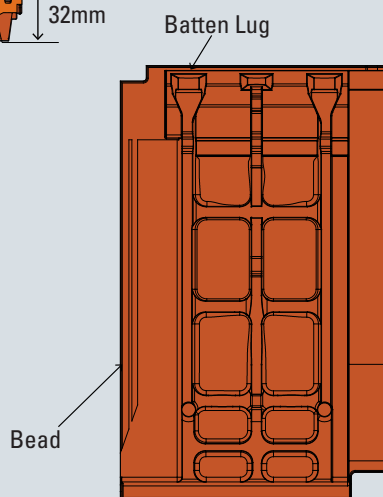
Section - A-A



Section - B-B



Roof Pitch



Under Side

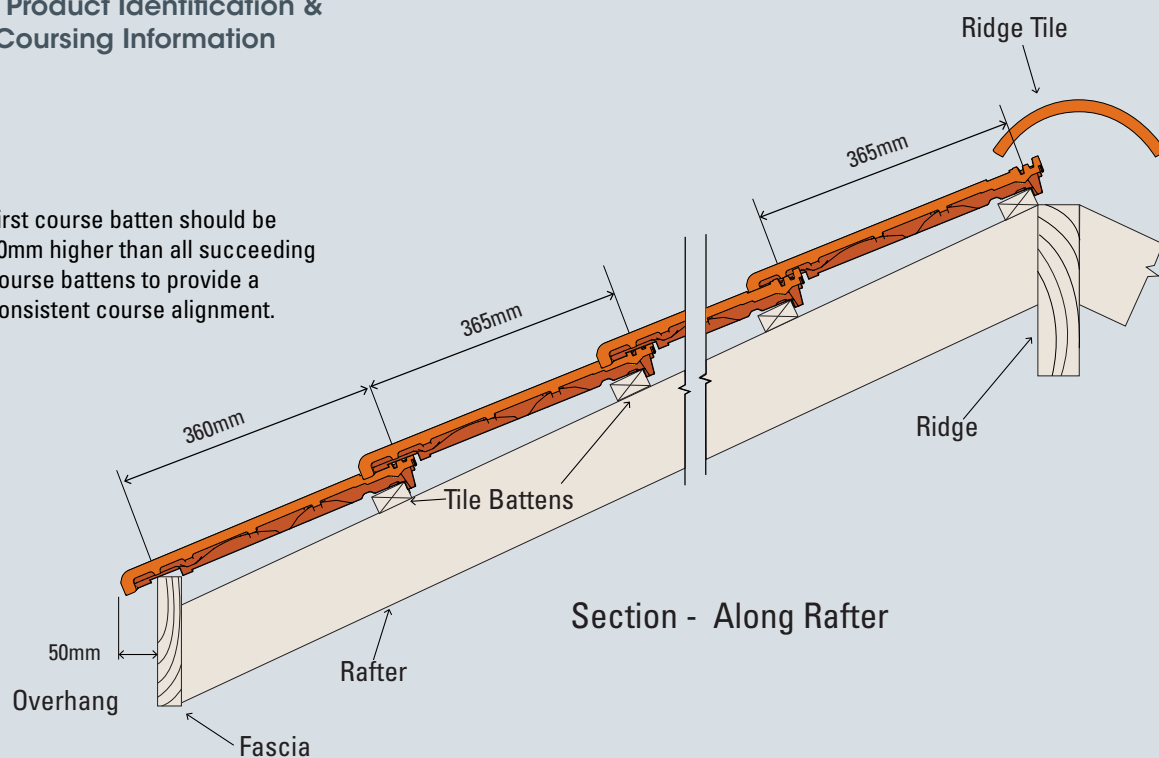
Testing Standard	Test Description	Std Tolerance	Average Planum Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Planum tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
EN - 539-2	Water Absorption	<10%	
EN - 539-1	Permeability	Two hour test	
EN - 539-1&2	Freeze / Thaw	150 cycles	
AS - 4046.7	Resistance to Salt Attack	Exposure	
AS - 4046.8	Dynamic weather resistance	Calibrated Datum	

La Escandella

Planum

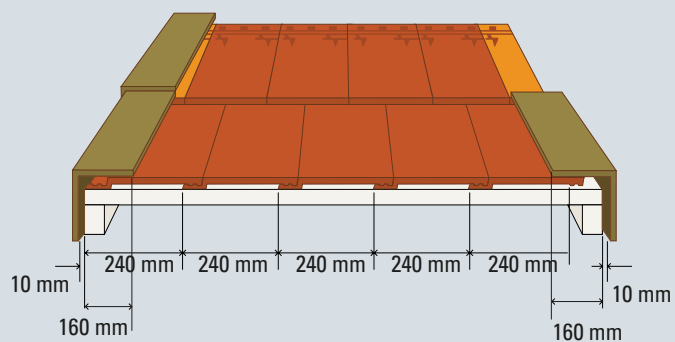
Planum Product Identification & Layout Coursing Information

First course batten should be 20mm higher than all succeeding course battens to provide a consistent course alignment.

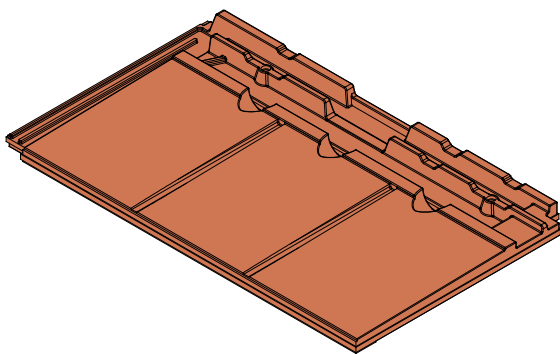


Planum cross bonded roof tile laying

- Planum Roof tile
- Q91 Pyramid Ridge
- Half tile (Cut on site)



La Escandella Visum3



A new era in roofing products has arrived with the Visum3 tile from Bristle Roofing.

Featuring a truly revolutionary interlocking design, the Visum3 has been designed to replicate smaller slate and clay tiles without the associated costs.

Introduced with a 20 year patent, the Visum3 provides an affordable alternative for those desiring a shingle roof. Industry leading technology enables each tile to be coloured individually with realistic pitting on the tiles surface for authenticity. Featuring a slim 9mm nose, the Visum3 achieves ultra flat laying for the ultimate shingle and slate appearance.

La Escandella

Visum3

Visum3 Product Specification

Product Specification	
Min Pitch:	25 Degrees with Proctor Membrane
Set Out:	187mm (+/- 5mm)
First Batten:	206mm (top of batten)
Sarking:	Mandatory (Breathable membrane to be used)
Dimensions:	280mm x 480mm x 35mm
Weight:	3.85kg
Layed:	Cross Bonded (watercourse high bead in line with central frog)
Tiles Per m2:	11.9
Weight per M²:	44.27 kg
Cuts per LM:	8
Ridges per LM:	2.5
Batten per M²:	5.8
Batten:	600 Centres - 40 x 25 HWD (QLD) / 38 x 38 Pine (NSW, ACT, VIC, SA, TAS) / 38 x 25 Karri (WA) 900 Centres - 50 x 38 HWD (QLD, NSW, ACT, VIC, SA, TAS)
Fixing:	Head Lap Clip or Nailed
Pallet Quantity:	280 / 210

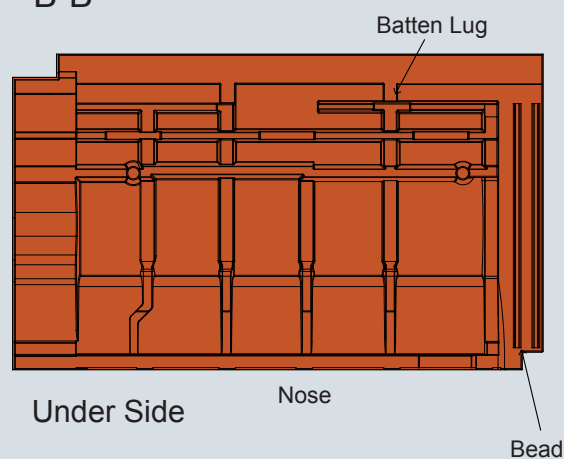
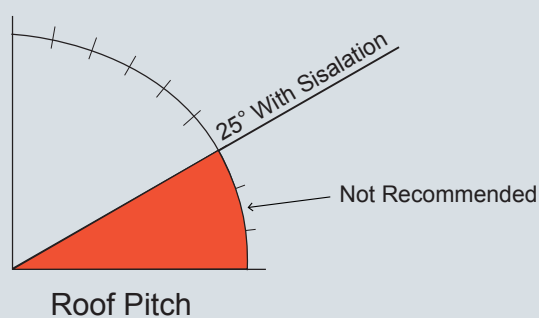
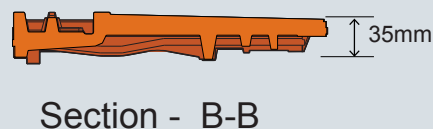
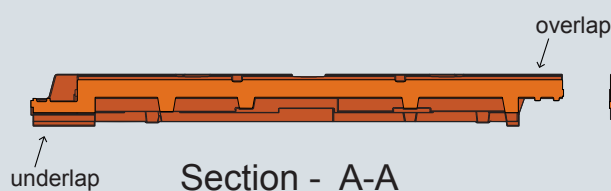
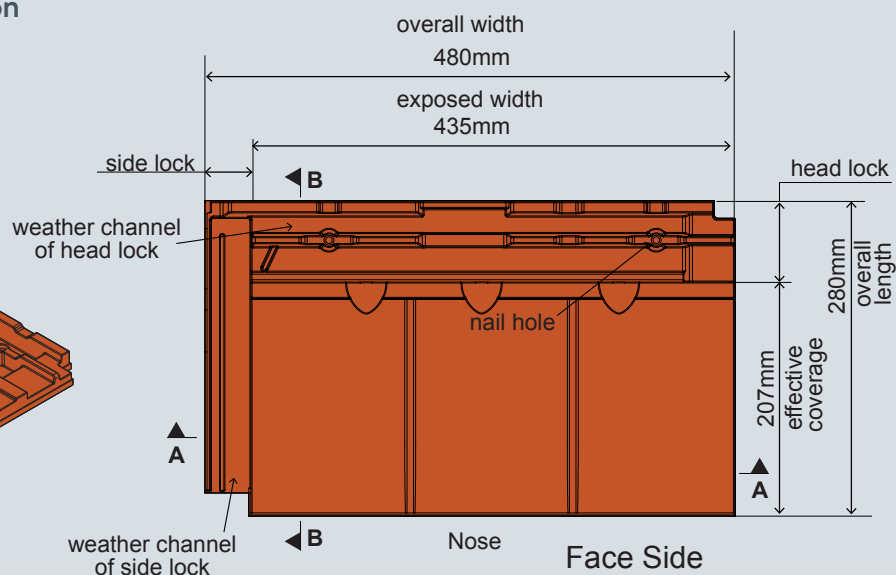
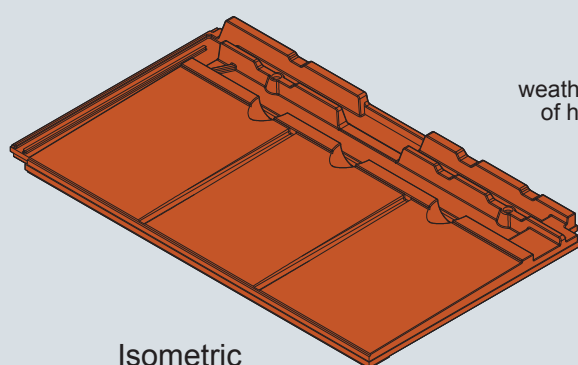
Visum Fittings

Ridges	Apex	Hip End	Double Roll	Barges	Extras
					
Q90 Collarless Ridge	Q111 Collarless 3 Way Apex (QLD Only)	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	Q96 Ventiation Tile

La Escandella

Visum3

Visum3 Product & Test Specification



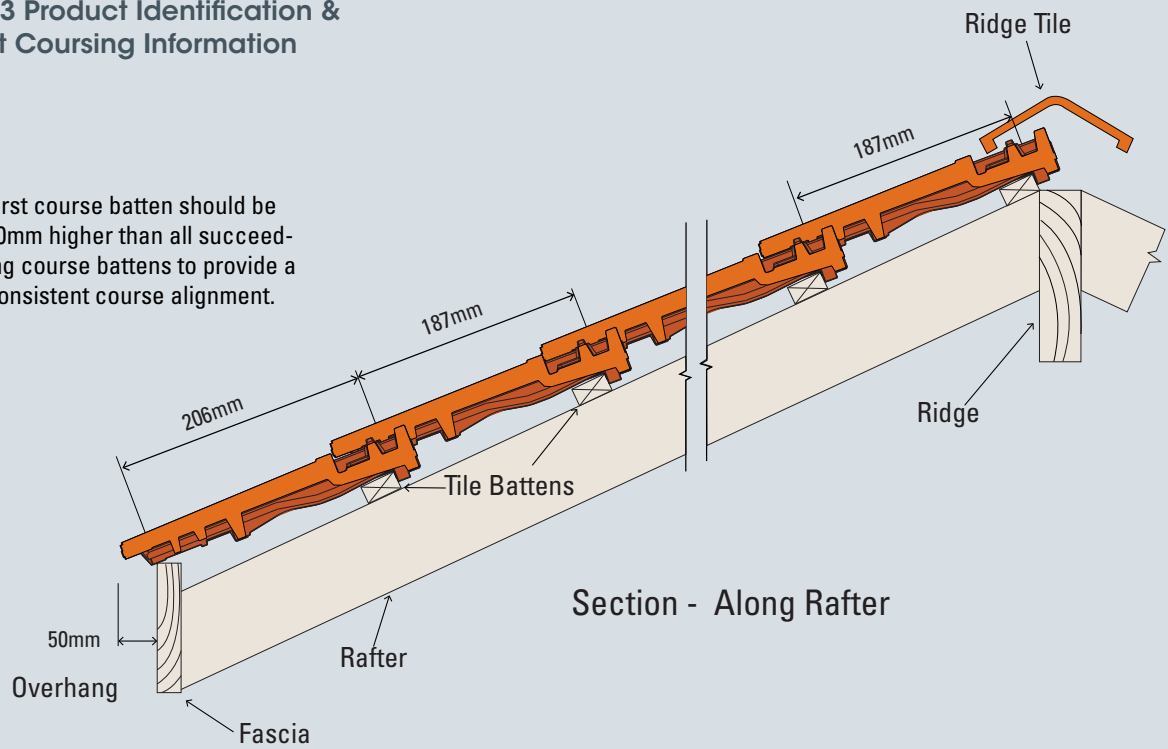
Testing Standard	Test Description	Std Tolerance	Average Visum3 Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Visum3 tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
EN - 539-2	Water Absorption	<10%	
EN - 539-1	Permeability	Two hour test	
EN - 539-1&2	Freeze / Thaw	150 cycles	
AS - 4046.7	Resistance to Salt Attack	Exposure	
AS - 4046.8	Dynamic weather resistance	Calibrated Datum	

La Escandella

Visum3

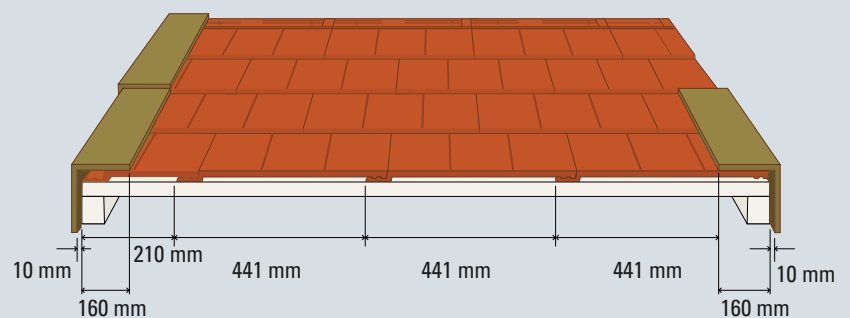
Visum3 Product Identification & Layout Coursing Information

First course batten should be 20mm higher than all succeeding course battens to provide a consistent course alignment.



Visum3 roof tile laying

- Visum3 Roof tile
- Q91 Pyramid Ridge



La Escandella La Escandella Innova



Discover the latest innovation from
La Escandella with the Innova range.

The La Escandella Innova is a shaped roof tile with a sleek refined finish. The combination of it's sharp clean lines and natural clay colour palette result in a roof tile with a timeless look and unmistakable style. Offering the colour longevity, strength, and durability of clay, this range suits a range of house designs.

La Escandella

La Escandella Innova

Innova Product Specification

Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Set Out:	390mm (+5/- 70mm)
First Batten:	380mm (top of batten)
Sarking:	As noted in "Min Pitch" below
Dimensions:	460mm x 255mm x 30mm
Weight:	3.4kg
Layed:	Straight or Cross Bonded
Tiles Per m2:	12.1
Weight per M ² :	39.1kg (Tiles Only)
Cuts per LM:	3
Ridges per LM:	2.5
Batten per M ² :	2.9
Batten:	600 Centres - 40 x 25 HWD (QLD) / 38 x 38 Pine (NSW, ACT, VIC, SA, TAS) / 38 x 25 Karri (WA) 900 Centres - 50 x 38 HWD (QLD, NSW, ACT, VIC, SA, TAS)
Fixing:	Head Lap Clip or Nailed
Pallet Quantity:	216 / 288

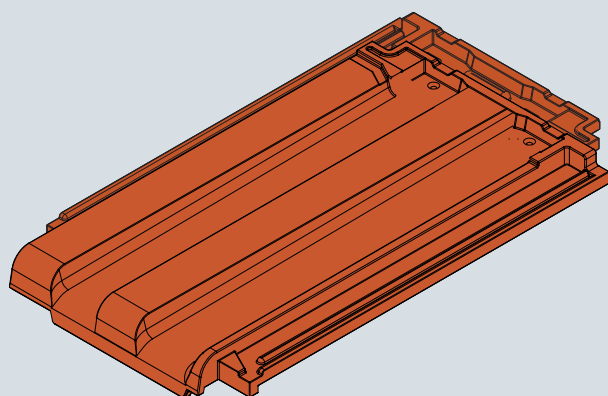
Vienna Fittings

Ridges	Apex	Hip End	Double Roll	Barges	Extras
					
Q90 Collarless Ridge	Q111 Collarless 3 Way Apex (QLD Only)	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	N/A

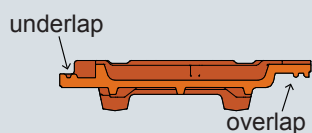
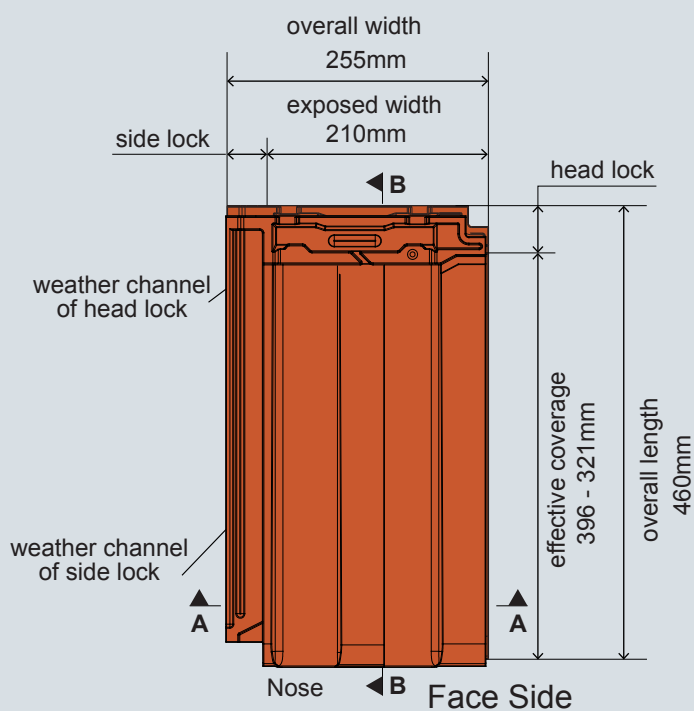
La Escandella

La Escandella Innova

La Escandella Innova Product & Test Specification



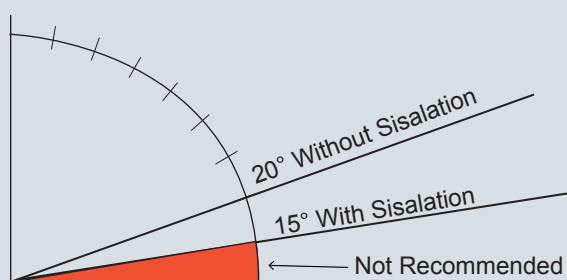
Isometric



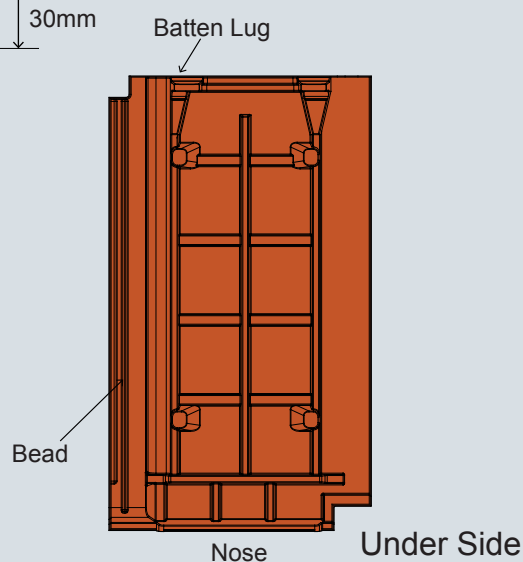
Section - A-A



Section - B-B



Roof Pitch

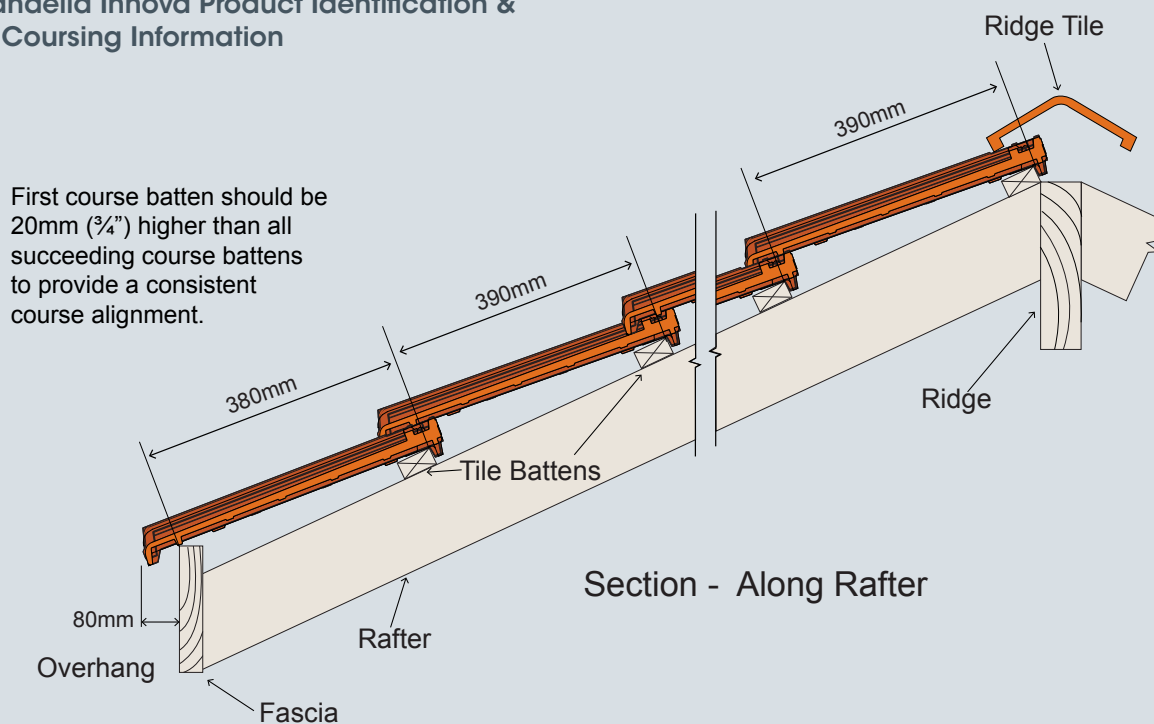


Testing Standard	Test Description	Std Tolerance	Average Innova Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Innova tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
EN - 539-2	Water Absorption	<10%	
EN - 539-1	Permeability	Two hour test	
EN - 539-1&2	Freeze / Thaw	150 cycles	
AS - 4046.7	Resistance to Salt Attack	Exposure	
AS - 4046.8	Dynamic weather resistance	Calibrated Datum	

La Escandella

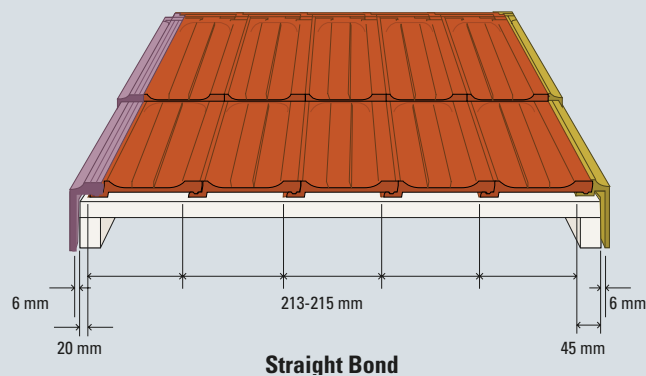
La Escandella Innova

La Escandella Innova Product Identification & Layout Coursing Information

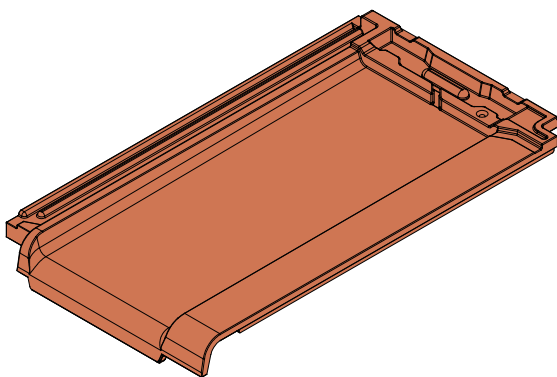


Straight bond pattern / Continuous joints laying

- Innova tile
- Q91 Pyramid Ridge



La Escandella Vienna



With sharp lines and bold pastel colours the Vienna range is designed for contemporary homes.

A tile to compliment today's varied architectural styles, the pace and diversity of modern city living reflected in the strong straight lines of this tile.

La Escandella

Vienna

Vienna Product Specification

Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Set Out:	390mm (+5/- 70mm)
First Batten:	380mm (top of batten)
Sarking:	As noted in "Min Pitch" below
Dimensions:	460mm x 255mm x 30mm
Weight:	3.3kg
Layed:	Straight Bonded
Tiles Per m2:	12.1
Weight per M²:	37.95kg (Tiles Only)
Cuts per LM:	3
Ridges per LM:	2.5
Batten per M²:	2.9
Batten:	600 Centres - 40 x 25 HWD (QLD) / 38 x 38 Pine (NSW, ACT, VIC, SA, TAS) / 38 x 25 Karri (WA) 900 Centres - 50 x 38 HWD (QLD, NSW, ACT, VIC, SA, TAS)
Fixing:	Head Lap Clip or Nailed
Pallet Quantity:	180 / 240

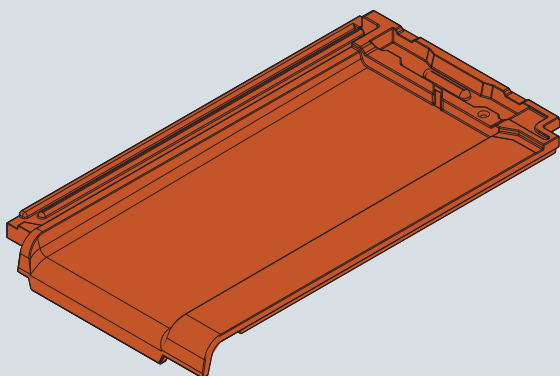
Vienna Fittings

Ridges	Apex	Hip End	Double Roll	Barges	Extras
					
Q90 Collarless Ridge	Q111 Collarless 3 Way Apex (QLD Only)	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	N/A

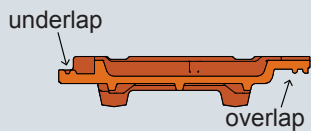
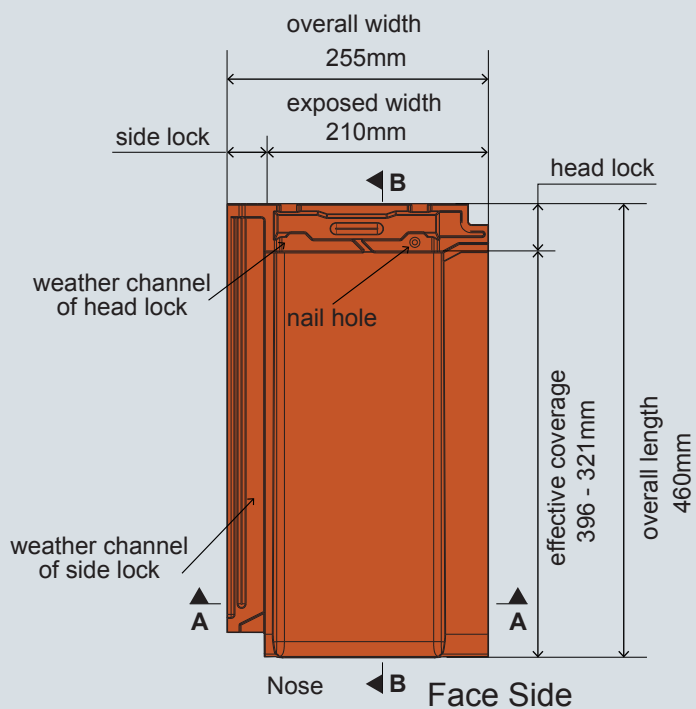
La Escandella

Vienna

Vienna Product & Test Specification



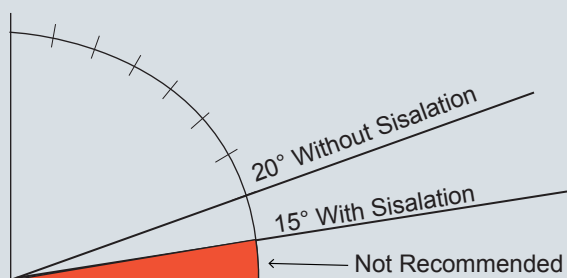
Isometric



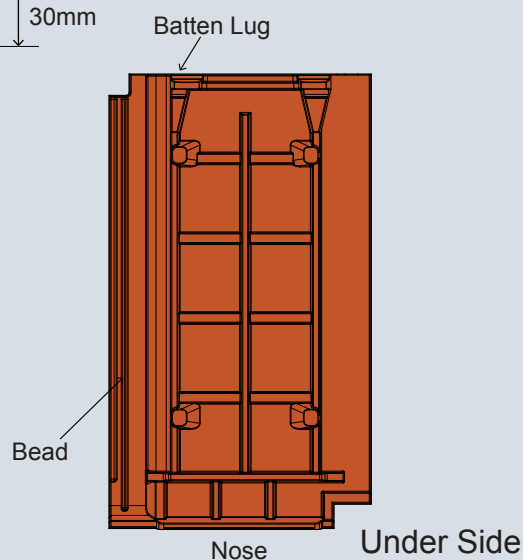
Section - A-A



Section - B-B



Roof Pitch

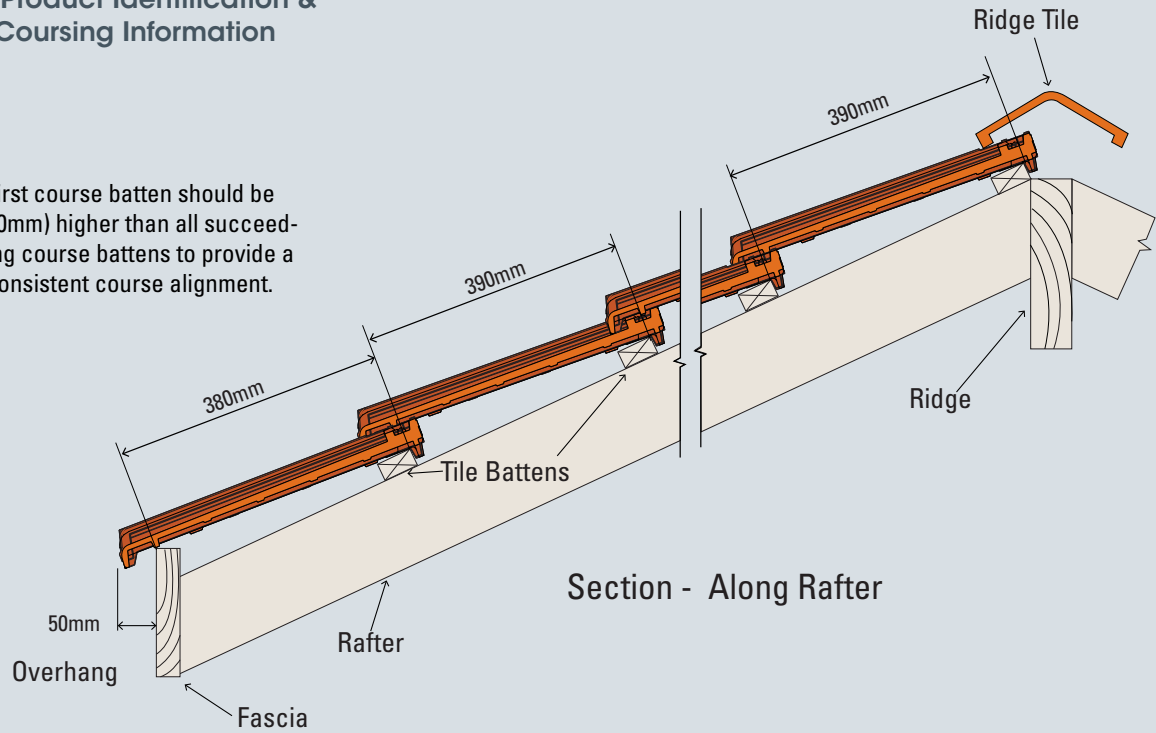


Testing Standard	Test Description	Std Tolerance	Average Vienna Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Vienna tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
EN - 539-2	Water Absorption	<10%	
EN - 539-1	Permeability	Two hour test	
EN - 539-1&2	Freeze / Thaw	150 cycles	
AS - 4046.7	Resistance to Salt Attack	Exposure	
AS - 4046.8	Dynamic weather resistance	Calibrated Datum	

La Escandella Vienna

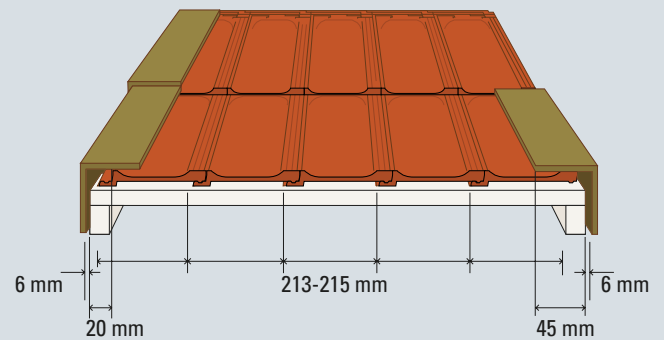
Vienna Product Identification & Layout Coursing Information

First course batten should be 20mm higher than all succeeding course battens to provide a consistent course alignment.

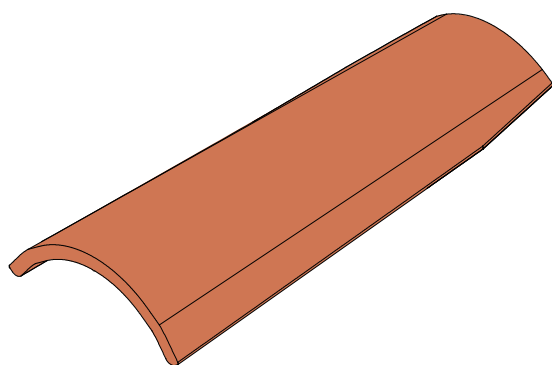


Straight bond pattern / Continuous joints laying

- Vienna tile
- Q91 Pyramid Ridge



La Escandella Medio Curva



A roof tile used through the ages, reintroduced in colours designed for the new world.

Traditionally, this two piece tile, also referred to as 'Mission Barrel', was the most frequently used roof tile in Europe and in Spanish colonial buildings in the new world. Today the Medio Curva tile is used in the construction of new homes, due to the beauty and wide variety of colours available, or on existing projects to restore historic roofs to their former beauty.

La Escandella

Medio Curva

Medio Curva Product Specification

Product Specification	
Min Pitch:	10-27 degrees with roof sheets, 27.1+ degrees with batten installation.
Set Out:	400mm (+15/-40)
First Batten:	See Longitudinal fit information on page 39
Sarking:	N/A
Dimensions:	See Product Specification Table on page 39
Weight:	See Product Specification Table on page 39
Layed:	Straight Bonded
Tiles Per m2:	See Product Specification Table on page 39
Weight per M²:	See Product Specification Table on page 39
Cuts per LM:	16
Ridges per LM:	2.5
Batten per M²:	2.9
Batten:	600 Centres - 40 x 25 HWD (QLD) / 75 x 35 Pine (NSW, ACT, VIC, SA, TAS) / 38 x 25 Karri (WA) 900 Centres - 50 x 38 HWD (QLD, NSW, ACT, VIC, SA, TAS)
Fixing:	Adhesive
Pallet Quantity:	275

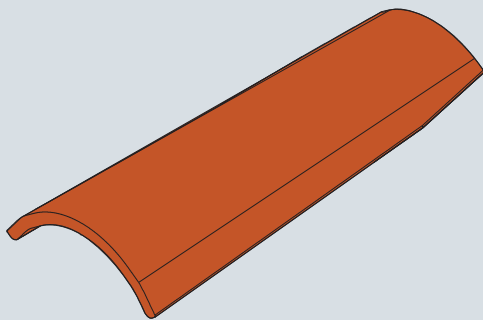
Medio Curva Tiles & Fittings

Ridges	Apex	End Cap	Double Roll	Tile	Extras
					
T5	N/A	Q83 Round Hip End Ridge Cap	N/A	T5	N/A

La Escandella

Medio Curva

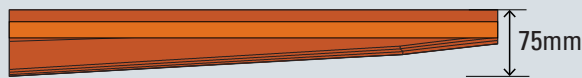
Medio Curva Product & Test Specification



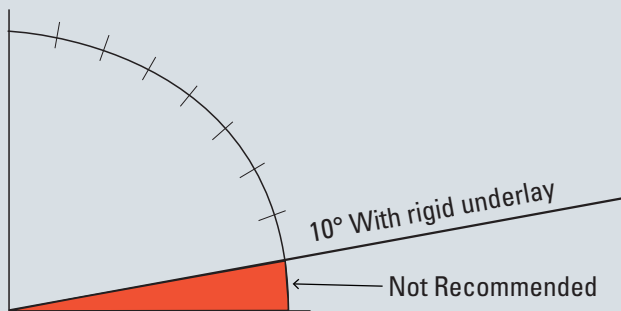
Isometric



Section - A-A

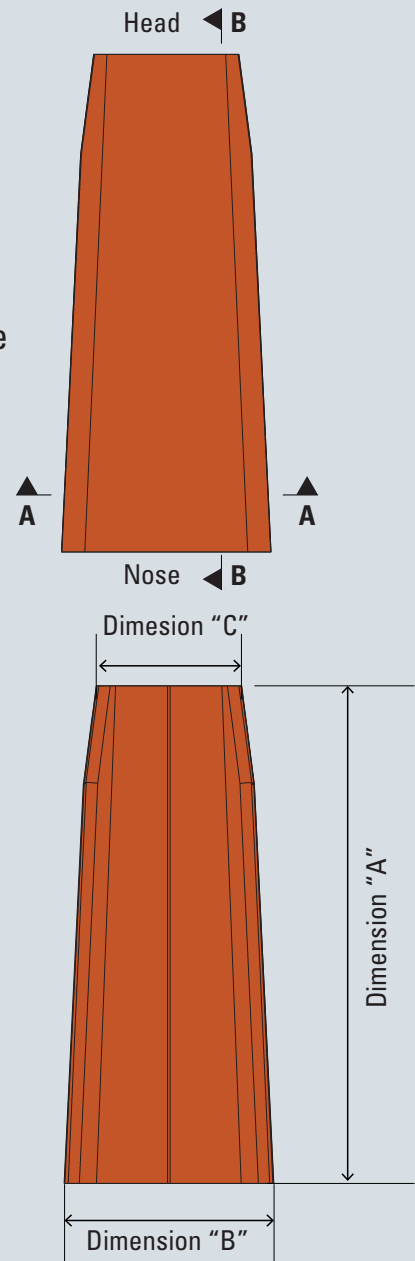


Section - B-B



Roof Pitch

Face Side



Under Side

Testing Standard	Test Description	Std Tolerance	Average Medio Curva Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Medio Curva tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
EN - 539-2	Water Absorption	<10%	
EN - 539-1	Permeability	Two hour test	
EN - 539-1&2	Freeze / Thaw	150 cycles	
AS - 4046.7	Resistance to Salt Attack	Exposure	
AS - 4046.8	Dynamic weather resistance	Calibrated Datum	

La Escandella

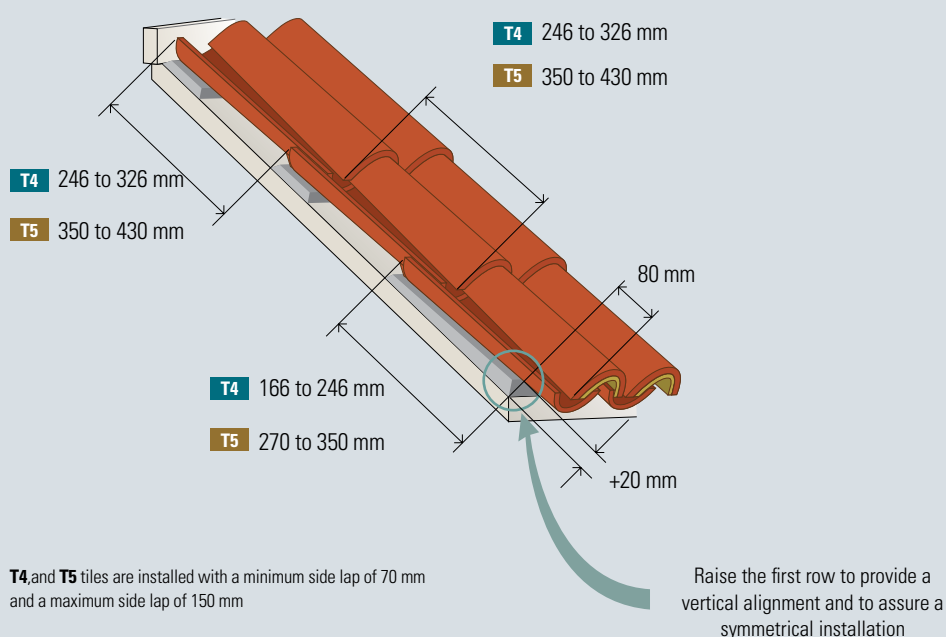
Medio Curva

Product Specification Table

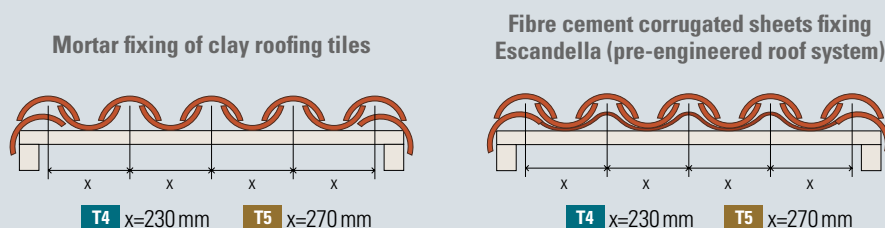
	T4 Red clay	T4 White clay	T5 Red clay	T5 White clay
Dimensions	a: 396 mm b: 182 mm c: 130 mm	a: 400 mm b: 185 mm c: 134 mm	a: 500 mm b: 210 mm c: 160 mm	a: 500 mm b: 215 mm c: 165 mm
Pieces /m²	28	28	18	18
Weight piece	1.6 kg	1.5 kg	2.55 kg	2.4 kg
Pieces /pallet	648 / 660	648 / 660	275	275
Average weight (including sheet) /m²	58.7 kg	55.9 kg	59.78 kg	57.08 kg

Medio Curva Product Specification Laying Method

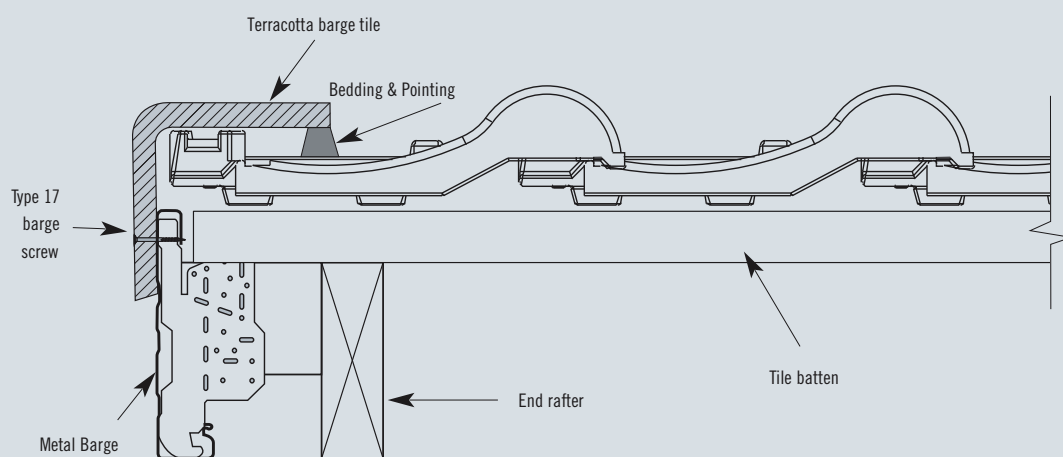
Longitudinal fit



Transversal fit



La Escandella Clay Barge Tile



Drawing No. BTR012
Not to scale
Author: Bristile Roofing





Above: Planum Blackstone

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