La Escandella

European Clay Roof Tiles
Technical Manual

August 2016 Edition

bristileroofing®

82

La Escandella technical manual contents

Fixing Requirements for Tiles & Accessories 4

Rafter Lengths and Pitches 6

Warranties 8

Product Range 8

Curvado Profile 8

Curvado Glazed Profile 12

Marseille Profile 16

Planum Profile 20

Visum3 Profile 24

Innova Profile 28

Vienna Profile 32

Medio Curva Profile 36

Clay Barge Tile 40

Associated Companies 42

Contact 44

La Escandella
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.

La Escandella
Fixing Requirements for Tiles & Accessories

Bristile 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 Bristile 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 Bristile 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	20°	15°
Marseille	20°	15°
Vienna	20°	15°
Visum3	n/a	23° *
Medio Curva	n/a	10° **
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.

La Escandella
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 Bristile 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.

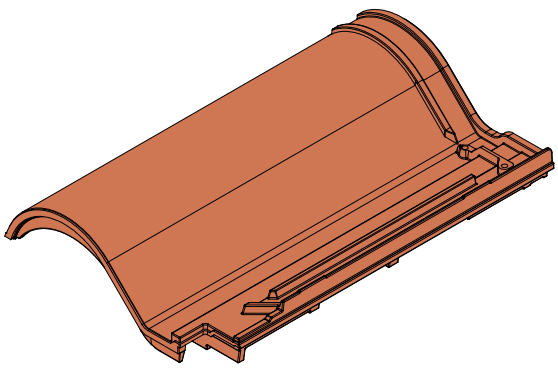
Informative Notes in AS 2050 "Installation of Roof Tiles", state: "Long rafter lengths may require sarking to prevent inundation of the roof.

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.

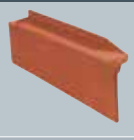
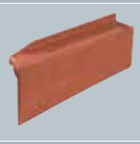
Manufactured from the highest quality clays, the Curvado incorporates a modern interlocking design which replicates the traditional pan and cover tile that has been a hallmark of European and Mediterranean architecture for centuries.

La Escandella
Curvado

Curvado Product Specification

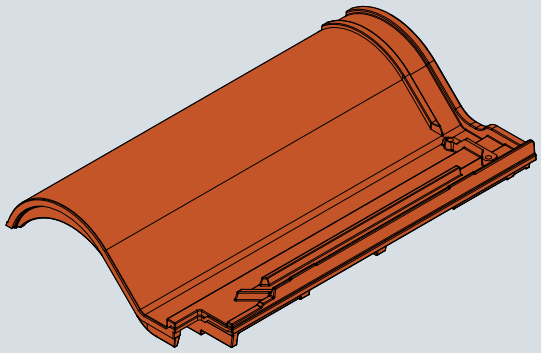
Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Optimum Set Out:	400mm (+/- 5mm)
First Batten:	370mm (top of batten)
Sarking:	As noted in "Min Pitch" above
Dimensions:	470mm x 286mm x 75mm
Weight:	3.9kg
Layed:	Straight Bonded
Tiles Per m2:	11.40
Weight per M^2:	44.46kg
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

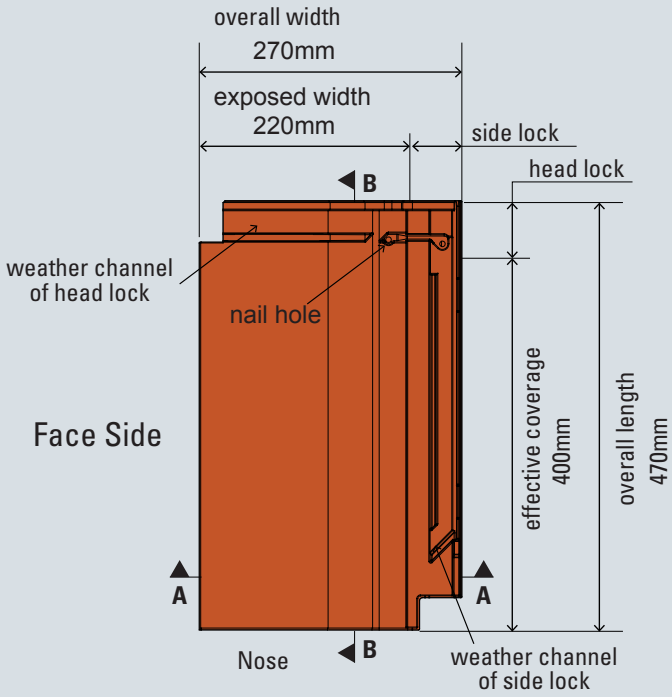
Ridges	Apex	End Cap	Double Roll	Barges	Extras
					
Q02 Round Ridge	Q44 Round 3 Way Apex Ridge	Q83 Round Hip End Ridge Cap	Q33 Double Large Roof Tile (One per course on the left side) only)	Q12 Round LHS Course	Q10 Straight LHS Course
					
Q04 Round Hip End Ridge	Q45 Round 4 Way Apex Ridge			Q13 Round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

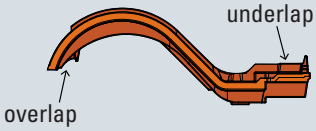
La Escandella
Curvado

Curvado Product & Test Specification



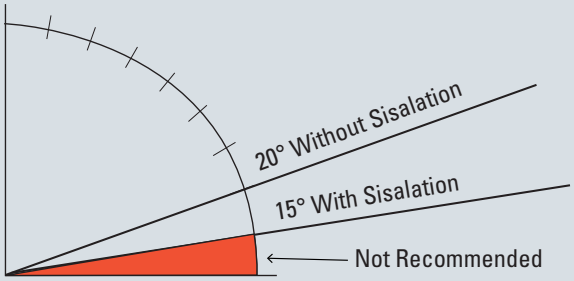
Isometric



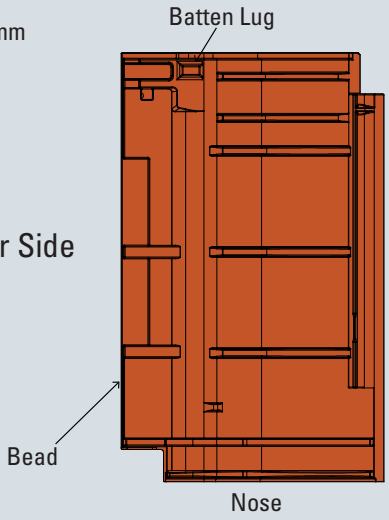


Section - A-A

Section - B-B



Roof Pitch

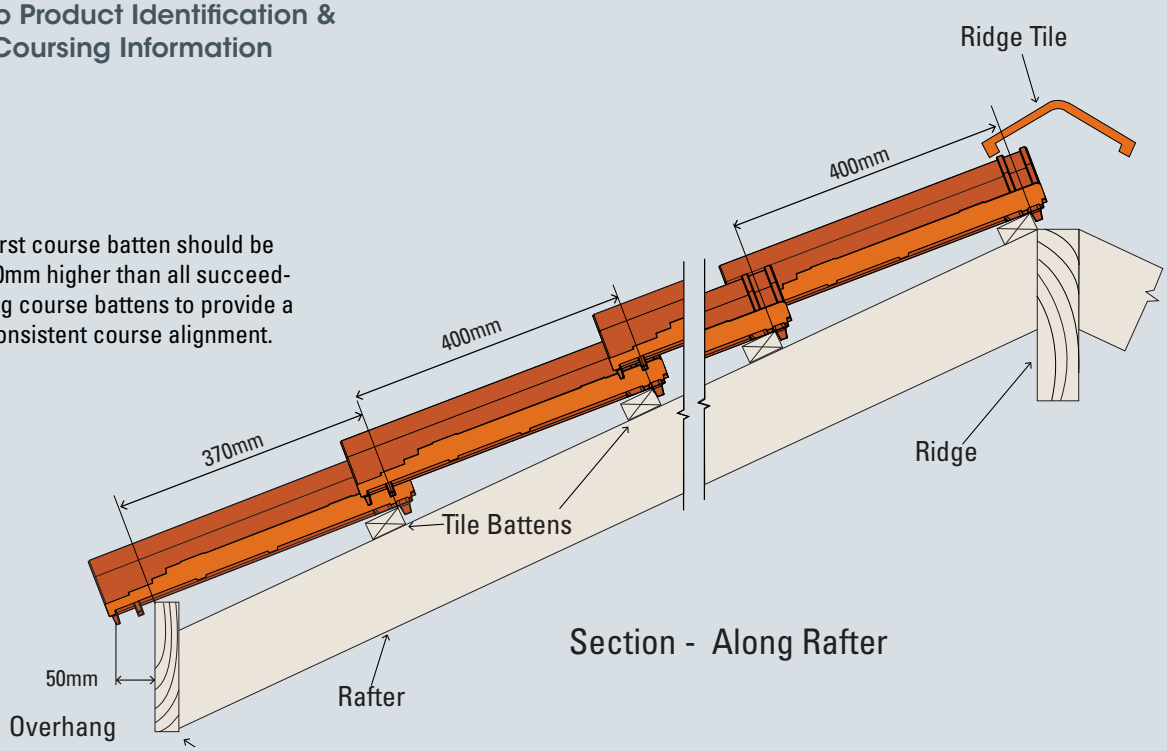


Testing Standard	Test Description	Std Tolerance	Average Curvado Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Curvado tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
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	

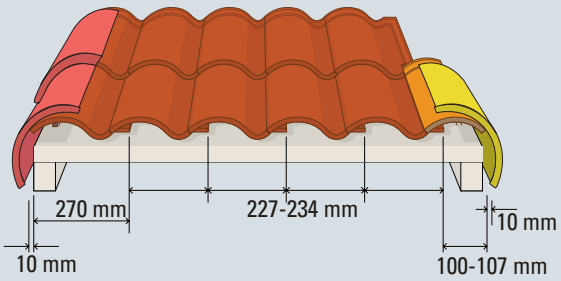
La Escandella
Curvado

Curvado Product Identification & Layout Coursing Information

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

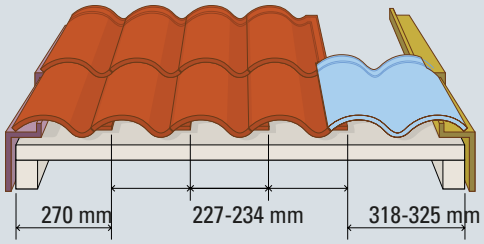


Section - Along Rafter



Half tile roof laying

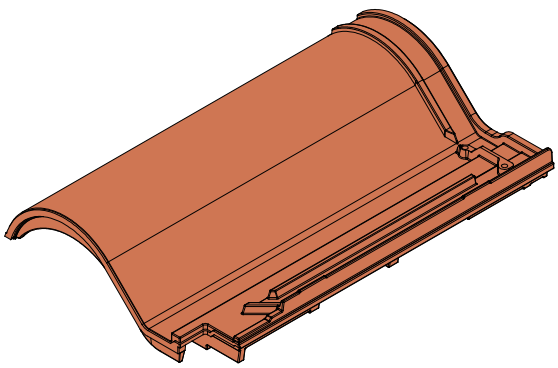
- Curvado roof tile
- **Q12** Round LHS course
- **Q13** Round RHS course
- Half tile (Cut on site)



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, Bristile 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

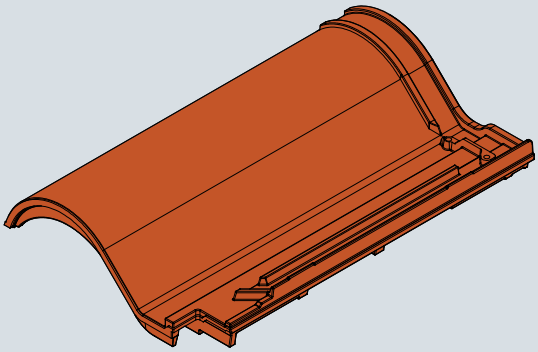
Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Optimum Set Out:	400mm (+/- 5mm)
First Batten:	370mm (top of batten)
Sarking:	As noted in "Min Pitch" above
Dimensions:	470mm x 286mm x 75mm
Weight:	3.9kg
Layed:	Straight Bonded
Tiles Per m2:	11.40
Weight per M^2:	44.46kg
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 Glazed Fittings

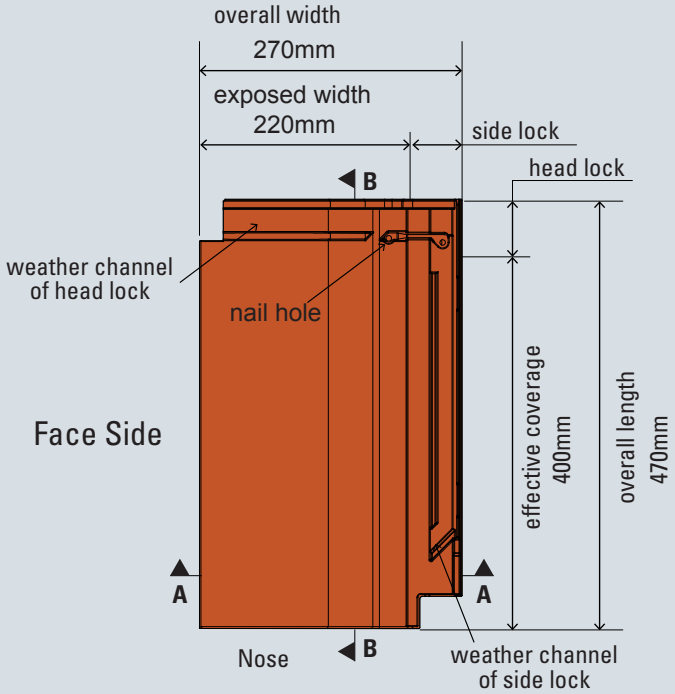
Ridges	Apex	End Cap	Double Roll	Barges	Extras
EQ02 Round Ridge	Q45 Round 4 Way Apex Ridge OR Mitre Ridges and Flash	EQ83 Round Hip End Ridge Cap	EQ33 Double Large Roof Tile (One per course on the left side) only)only)	Q12 Round LHS Course	EQ10 Straight LHS Course
EQ04 Round Hip End Ridge	Q44 Round 3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

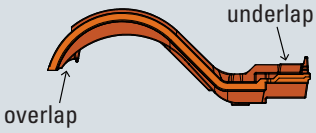
La Escandella
Curvado Glazed

Curvado Glazed Product & Test Specification

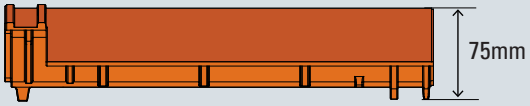


Isometric

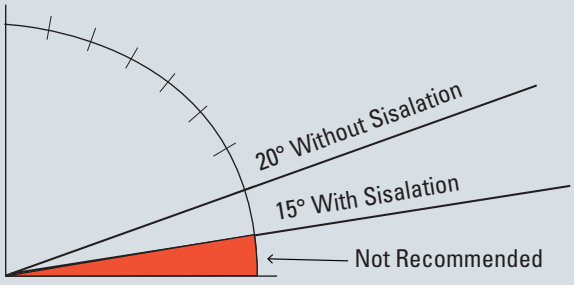




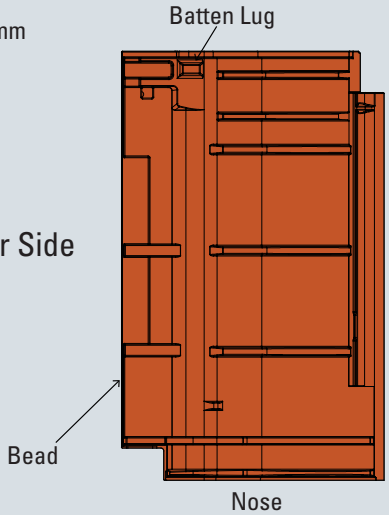
Section - A-A



Section - B-B



Roof Pitch

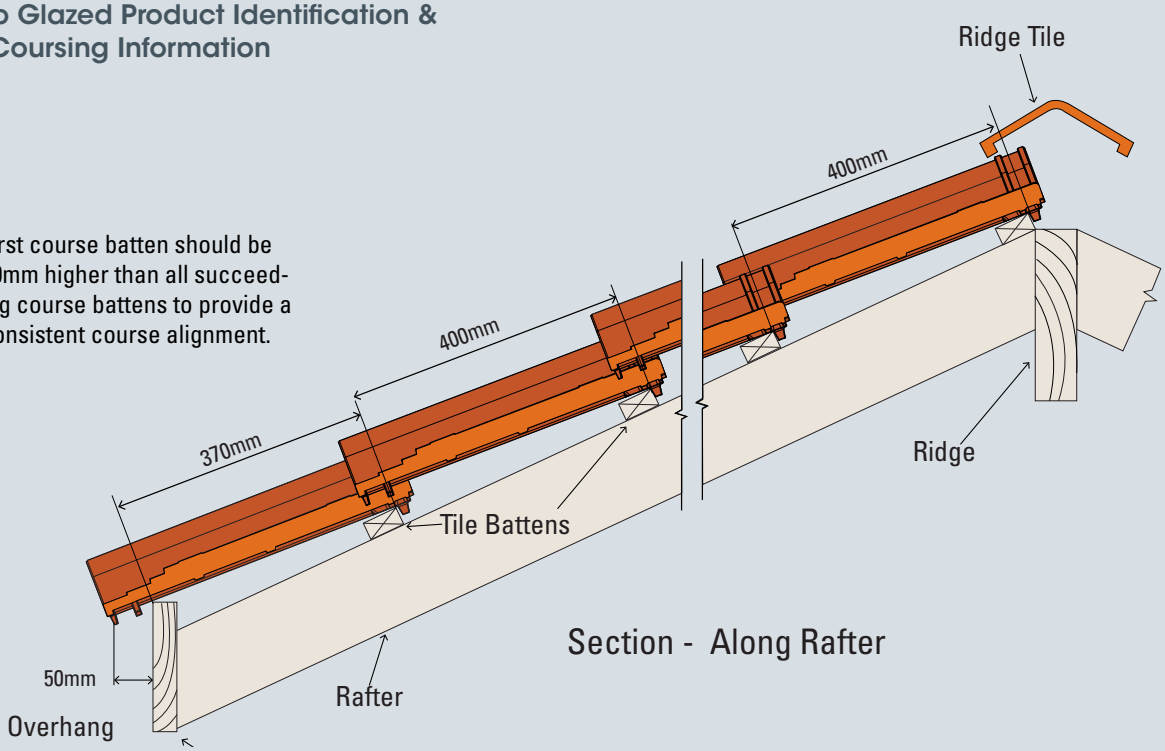


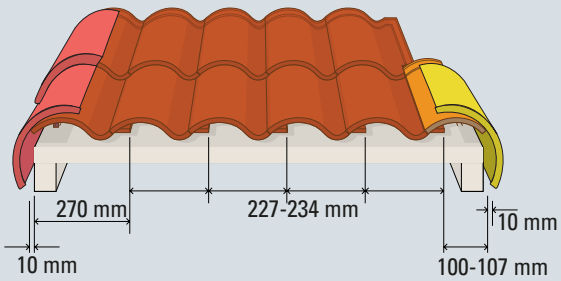
Testing Standard	Test Description	Std Tolerance	Average Curvado Result
AS - 4046.1	Distortion & Warpage	< 8mm	All Curvado tiles either comply or exceed the standard tolerances listed in this table
AS - 4046.2	Batten lugs & Squareness	< 1.5% Length	
EN - 538	Transverse Strength	3 Nt/exposed mm of width	
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

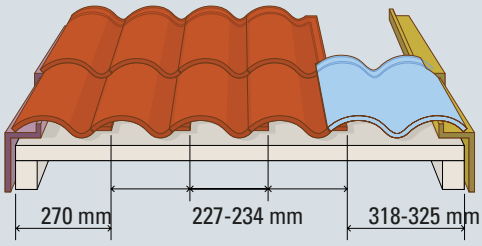
First course batten should be 20mm higher than all succeeding course battens to provide a consistent course alignment.





Half tile roof laying

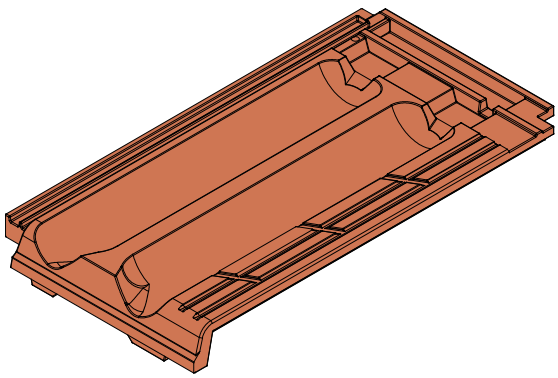
- Curvado roof tile
- **Q12** Round LHS course
- **Q13** Round RHS course
- Half tile (Cut on site)



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 it's sharp clean lines and natural colour palette result in a roof tile with a timeless look and unmistakeable style. Offering the colour longevity, strength, and durability of clay, the Marseille is ideal for homes of distinction.

La Escandella
Marseille

Marseille Product Specification

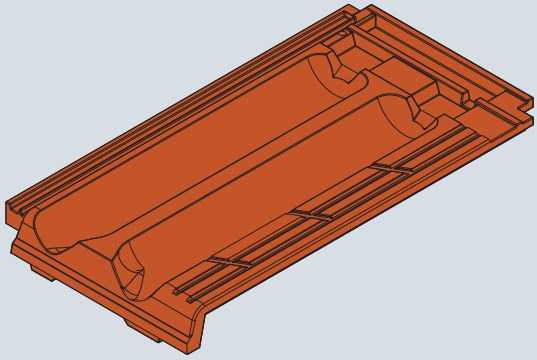
Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Optimum Set Out:	398mm (+/- 5mm)
First Batten:	370mm (top of batten)
Sarking:	As noted in "Min Pitch" above
Dimensions:	466mm x 260mm x 55mm
Weight:	3.6kg
Layed:	Cross Bonded
Tiles Per m2:	11.1
Weight per M^2:	39.96kg
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

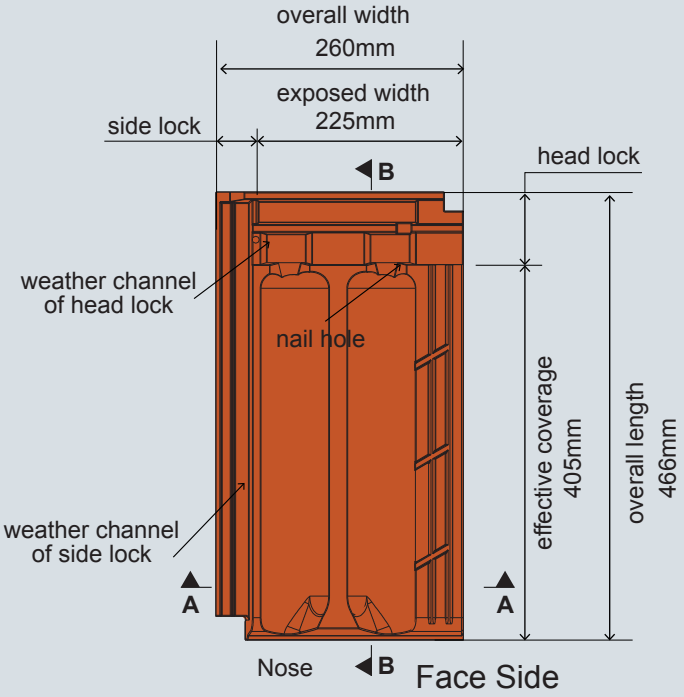
Ridges	Apex	Hip End	Double Roll	Barges	Extras
Q110 Standard Ridge	Q111 Standard 3 Way Apex Ridge	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	Q21 Ventilation Tile

La Escandella
Marseille

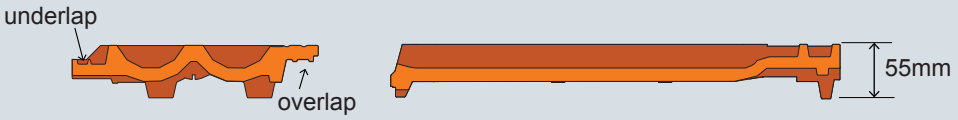
Marseille Product & Test Specification



Isometric

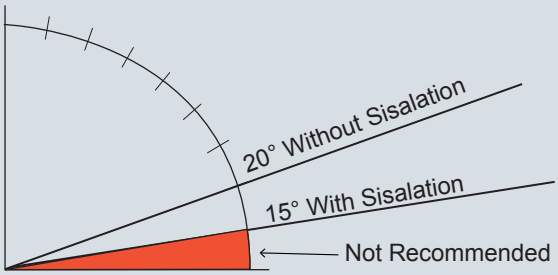


Face Side

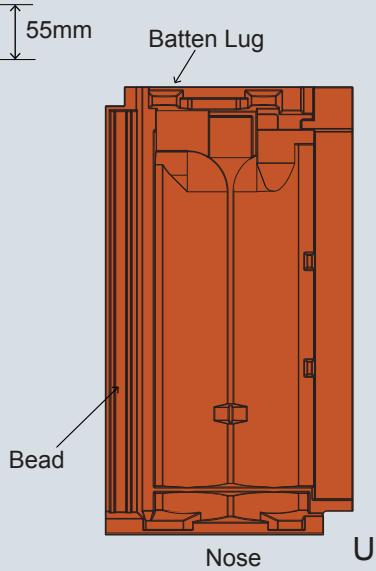


Section - A-A

Section - B-B



Roof Pitch



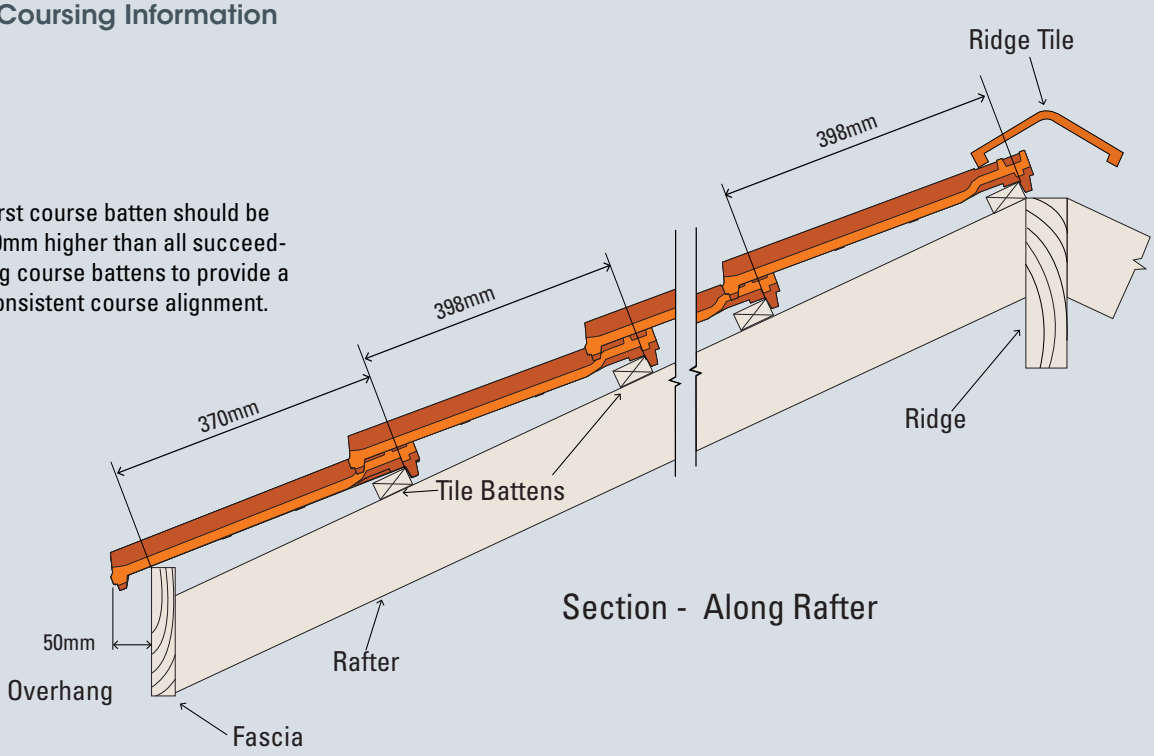
Under Side

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	

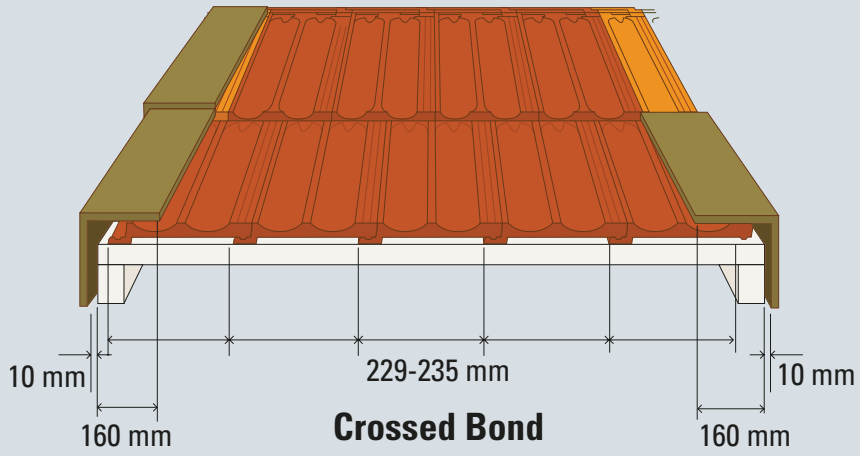
La Escandella
Marseille

Marseille Product Identification & Layout Coursing Information

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



Section - Along Rafter

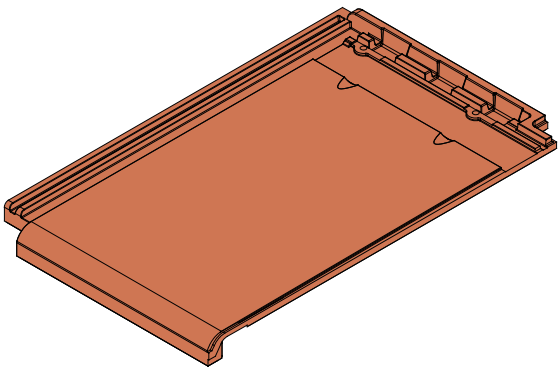


Crossed Bond

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.

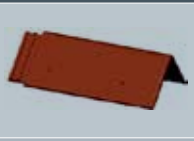
Due to it's innovative design and size, the Planum tile is faster and easier to install, lowering installation time and costs. Furthermore the highly weatherproof design means it can be applied to roof pitches as low as twenty degrees.

La Escandella
Planum

Planum Product Specification

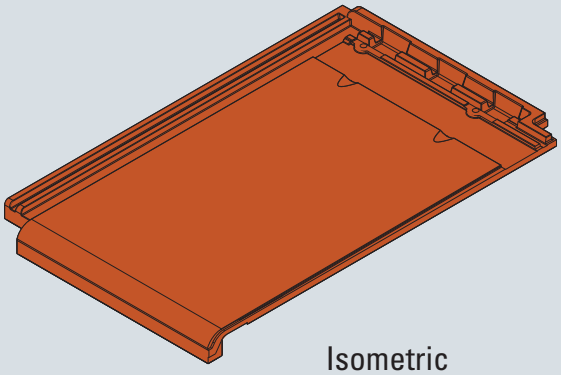
Product Specification	
Min Pitch:	15 Degrees with Sarking
Optimum Set Out:	370mm (+/- 5mm)
First Batten:	360mm (top of batten)
Sarking:	As noted in "Min Pitch" above
Dimensions:	450mm x 280mm x 32mm
Weight:	3.6kg
Layed:	Cross Bonded
Tiles Per m2:	11.30
Weight per M^2:	40.68kg
Cuts per LM:	3.5
Ridges per LM:	2.5
Batten per M^2:	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

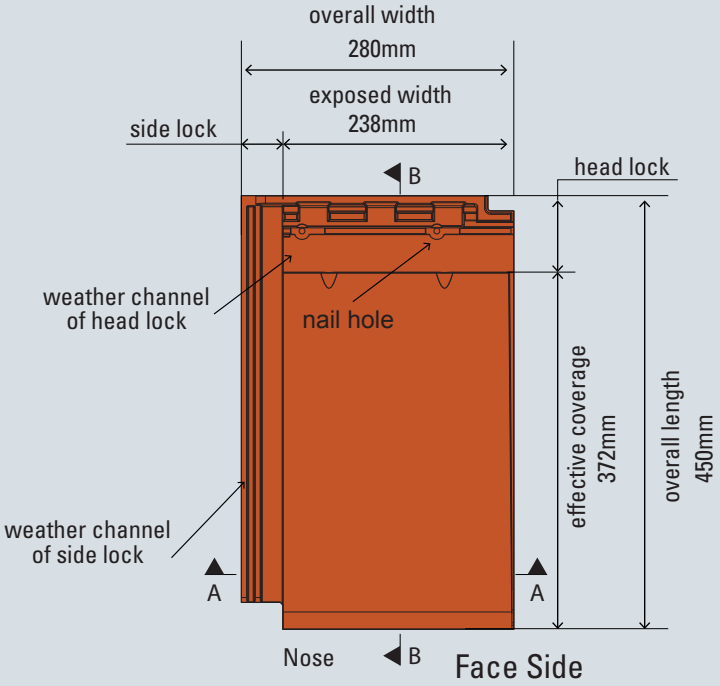
Ridges	Apex	Hip End	Double Roll	Barges	Extras
					
Q90 Collarless Ridge	Q111 Collarless 3 Way Apex (QLD Only)	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	Q86 Ventilation Tile

La Escandella
Planum

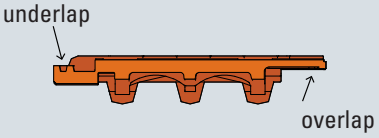
Planum Product & Test Specification



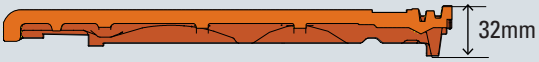
Isometric



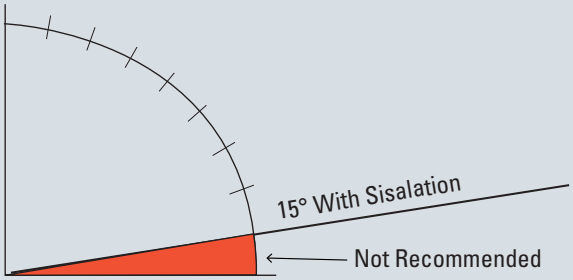
Face Side



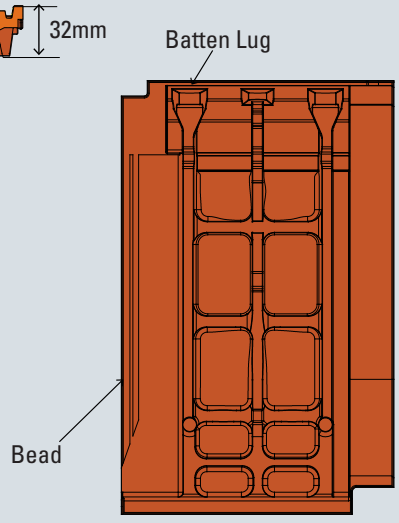
Section - A-A



Section - B-B



Roof Pitch



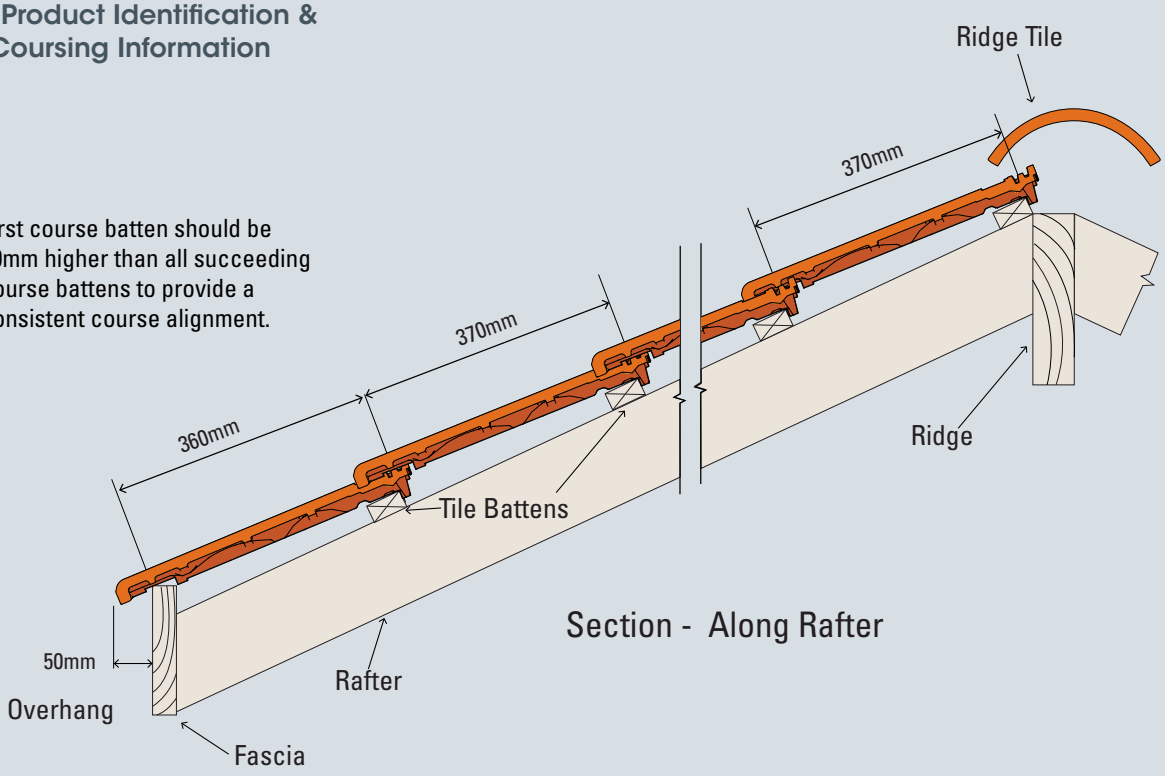
Under Side

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

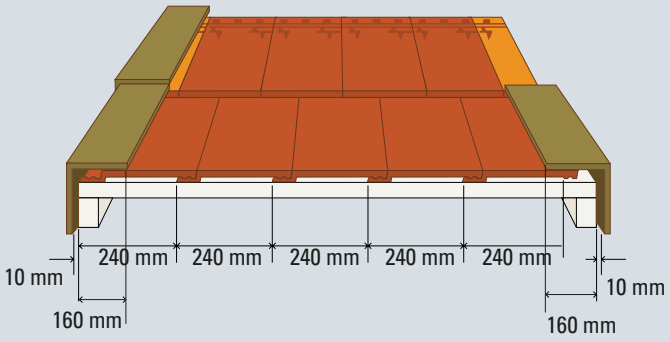
First course batten should be 20mm higher than all succeeding course battens to provide a consistent course alignment.



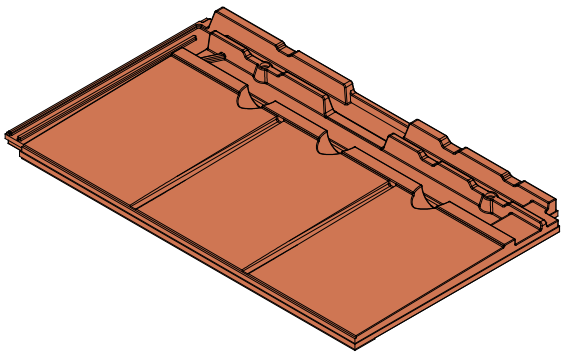
Section - Along Rafter

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 Bristile Roofing.

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

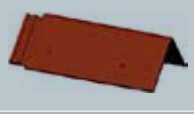
Introduced with a 20 year patent, the Visum3 provides an affordable alternative for those desiring a shingle roof. Industry leading technology enables each tile to be coloured individually with realistic pitting on the tiles surface for authenticity. Featuring a slim 9mm nose, the Visum3 achieves ultra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

La Escandella
Visum3

Visum3 Product Specification

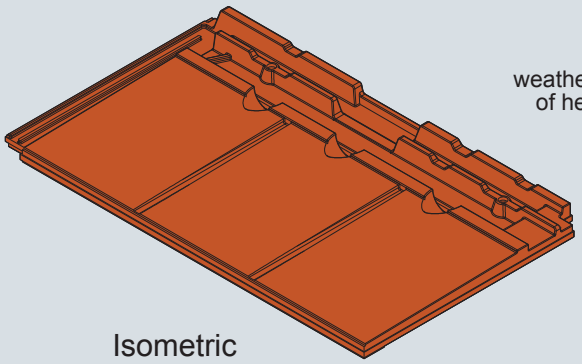
Product Specification	
Min Pitch:	25 Degrees with Proctor Membrane
Set Out:	193mm (+/- 3mm)
First Batten:	206mm (top of batten)
Sarking:	Mandatory (Breathable membrane to be used)
Dimensions:	280mm x 480mm x 35mm
Weight:	3.85kg
Layed:	Cross Bonded (watercourse high bead in line with central frog)
Tiles Per m2:	11.9
Weight per M^2:	45.81 kg
Cuts per LM:	8
Ridges per LM:	2.5
Batten per M^2	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

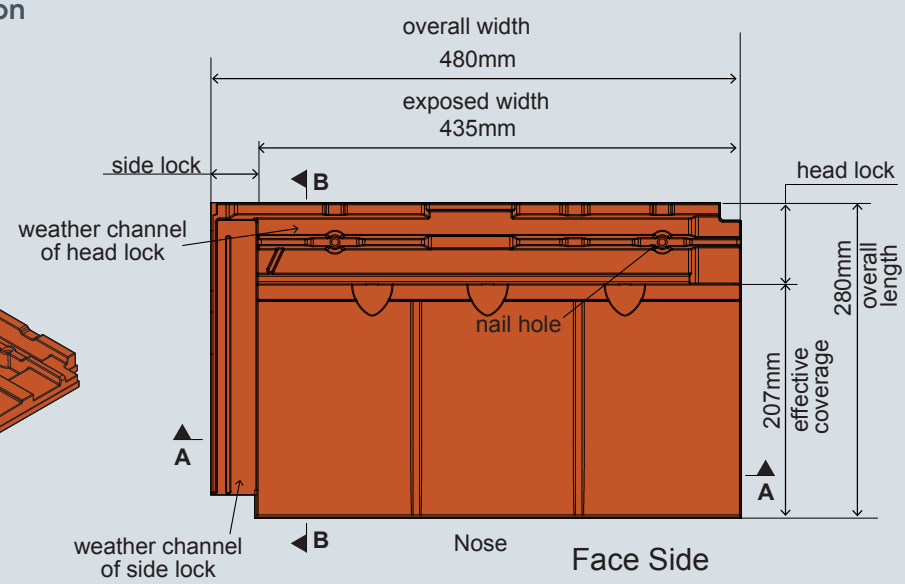
Ridges	Apex	Hip End	Double Roll	Barges	Extras
					
Q90 Collarless Ridge	Q111 Collarless 3 Way Apex (QLD Only)	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	Q96 Ventiation Tile

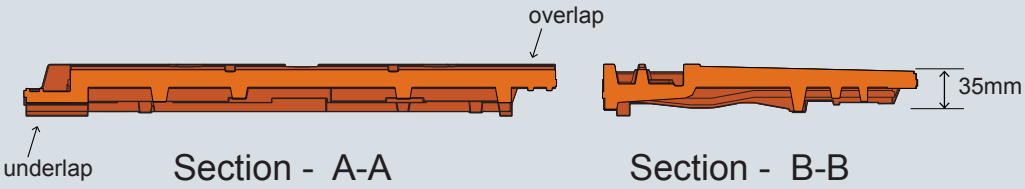
La Escandella
Visum3

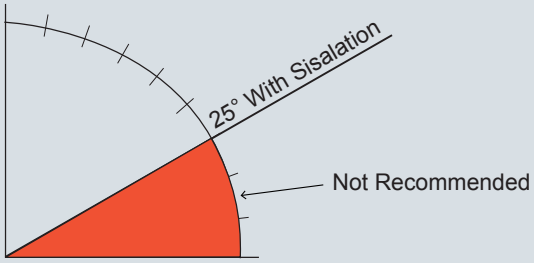
Visum3 Product & Test Specification



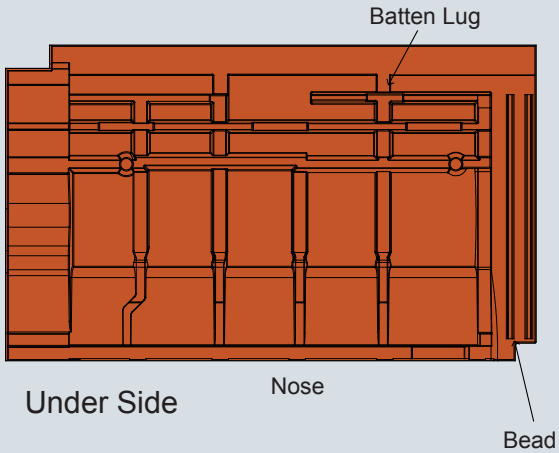
Isometric







Roof Pitch



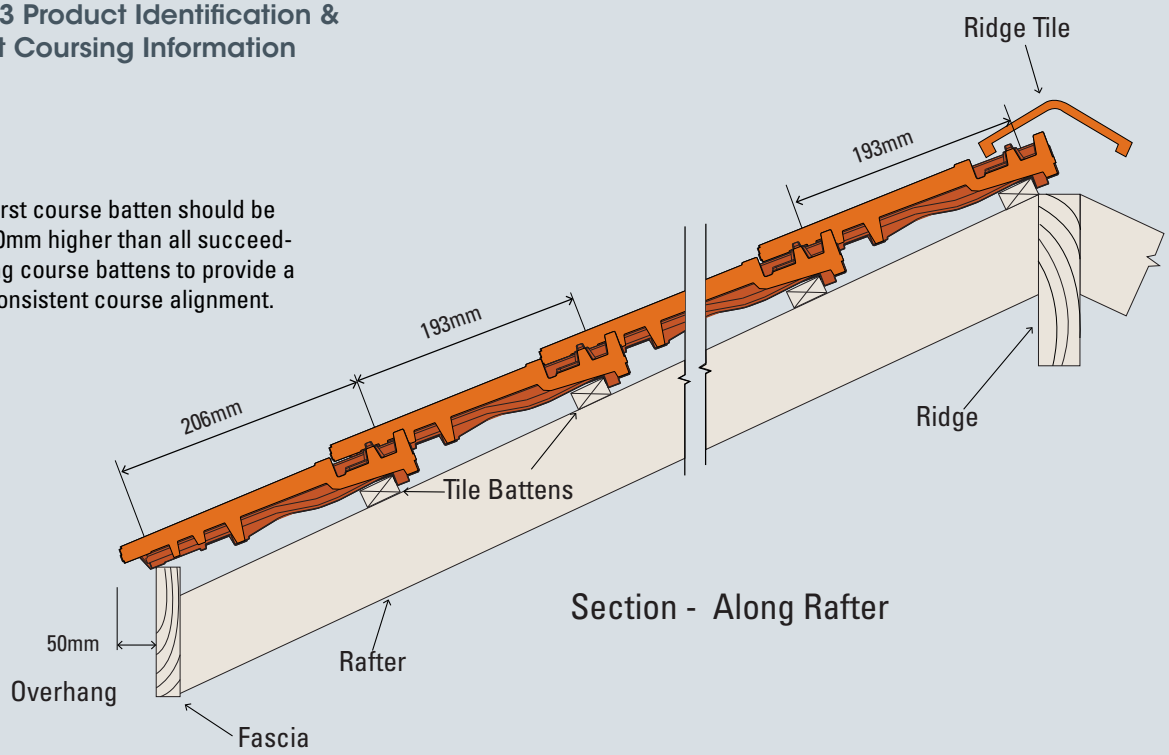
Under Side

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

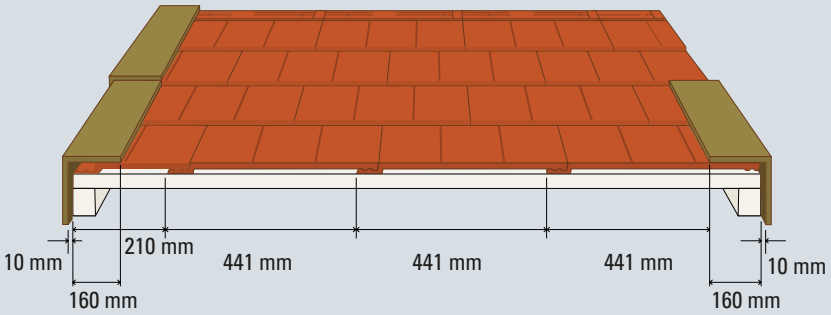
First course batten should be 20mm higher than all succeeding course battens to provide a consistent course alignment.



Section - Along Rafter

Visum3 roof tile laying

Visum3 Roof tile
Q91 Pyramid Ridge



La Escandella
Innova

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

The 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 unmistakeable style. Offering the colour longevity, strength, and durability of clay, the Innova suits a range of house designs.

La Escandella
Innova

Innova Product Specification

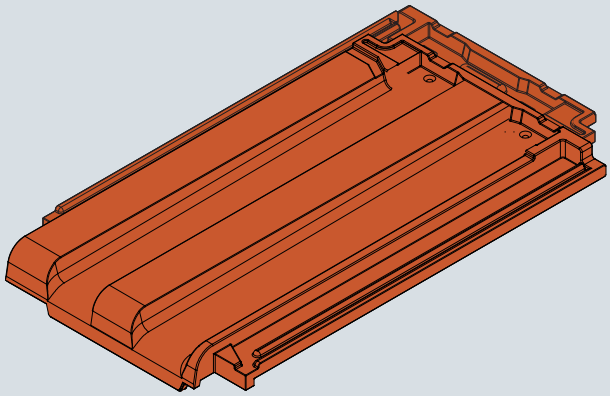
Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Set Out:	395mm (+5/- 75mm)
First Batten:	380mm (top of batten)
Sarking:	As noted in "Min Pitch" below
Dimensions:	460mm x 255mm x 30mm
Weight:	3.4kg
Layed:	Straight or Cross Bonded
Tiles Per m2:	11.5
Weight per M²:	39.1kg (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:	216 / 288

Vienna Fittings

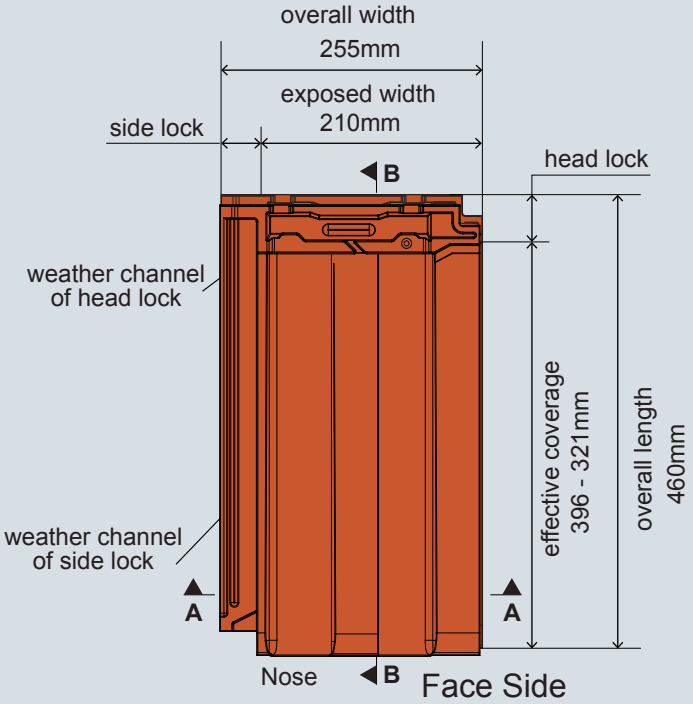
Ridges	Apex	Hip End	Double Roll	Barges	Extras
Q90 Collarless Ridge	Q111 Collarless 3 Way Apex (QLD Only)	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	N/A

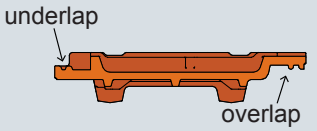
La Escandella
Innova

Innova Product & Test Specification



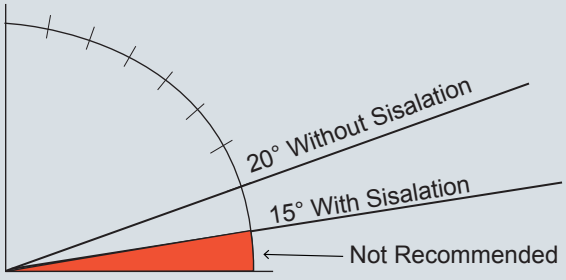
Isometric



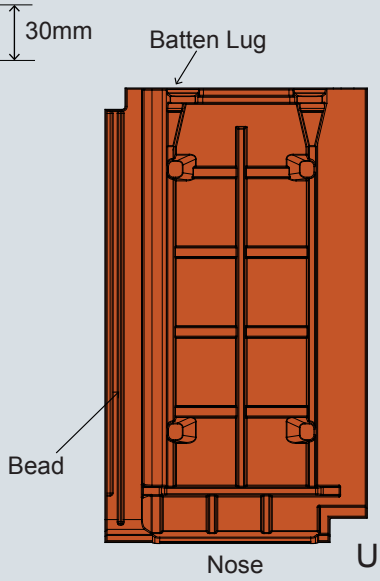


Section - A-A

Section - B-B



Roof Pitch

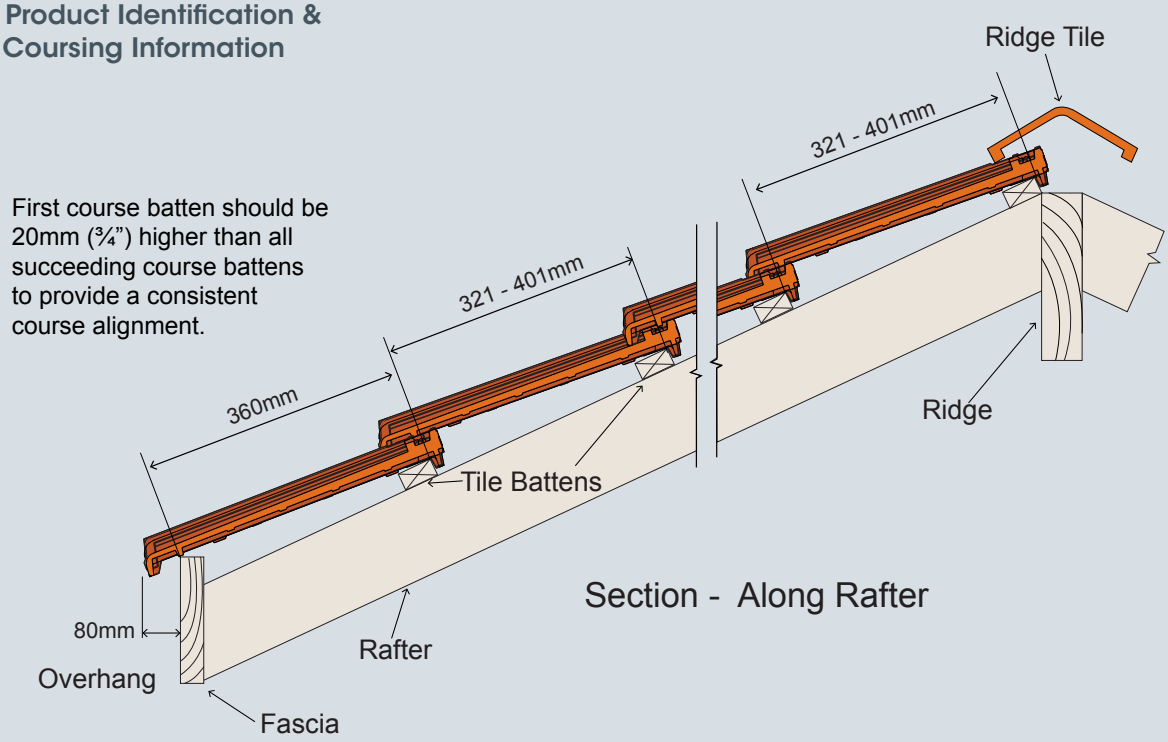


Under Side

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	

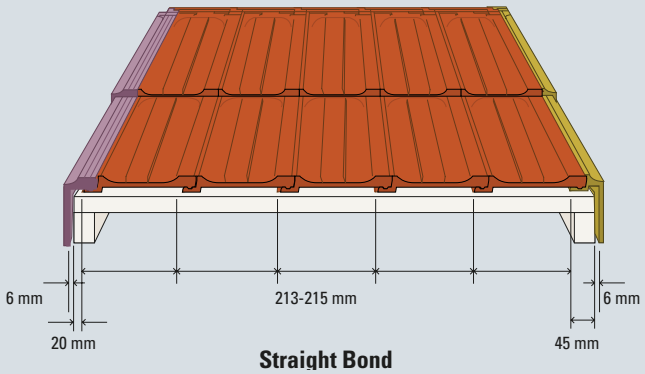
La Escandella
Innova

Innova Product Identification & Layout Coursing Information

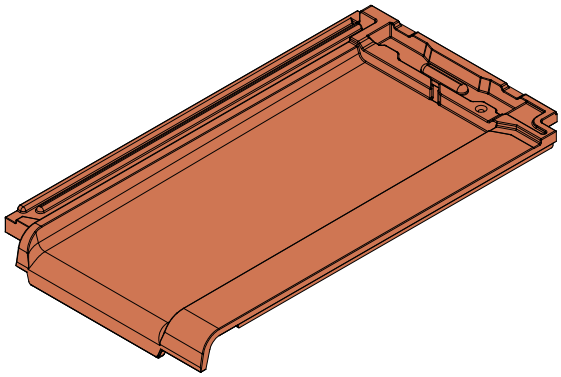


Straight bond pattern / Continuous joints laying

- 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

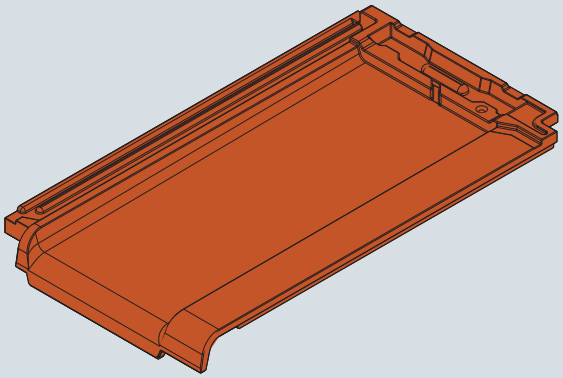
Product Specification	
Min Pitch:	15 Degrees with Sarking, 20 Degrees without Sarking
Set Out:	395mm (+5/- 75mm)
First Batten:	380mm (top of batten)
Sarking:	As noted in "Min Pitch" below
Dimensions:	460mm x 255mm x 30mm
Weight:	3.3kg
Layed:	Straight Bonded
Tiles Per m2:	11.5
Weight per M^2:	37.95kg (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:	180 / 240

Vienna Fittings

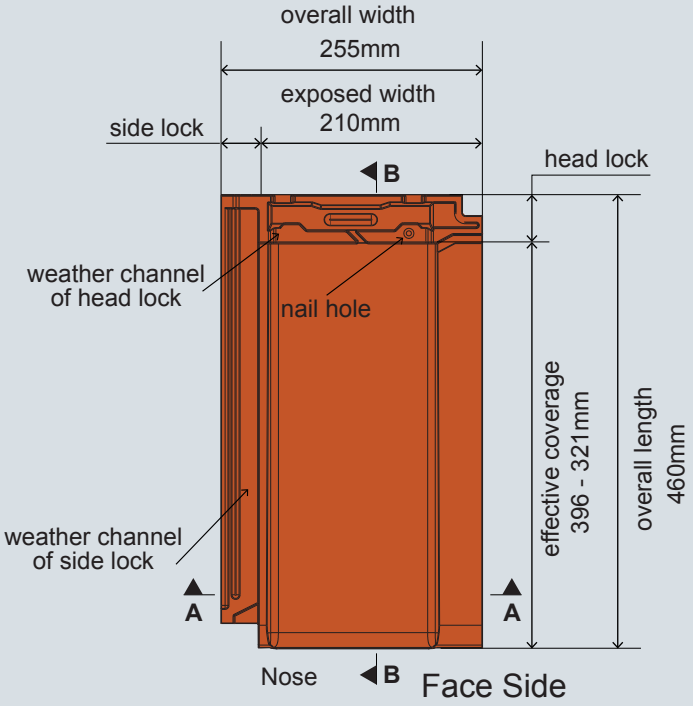
Ridges	Apex	Hip End	Double Roll	Barges	Extras
Q90 Collarless Ridge	Q111 Collarless 3 Way Apex (QLD Only)	Q109 Collarless Hip End Ridge	N/A	Q91 Pyramid Ridge	N/A

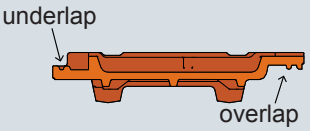
La Escandella
Vienna

Vienna Product & Test Specification



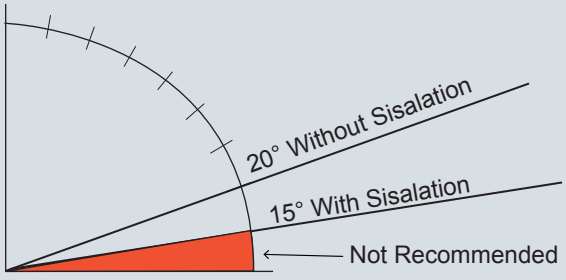
Isometric



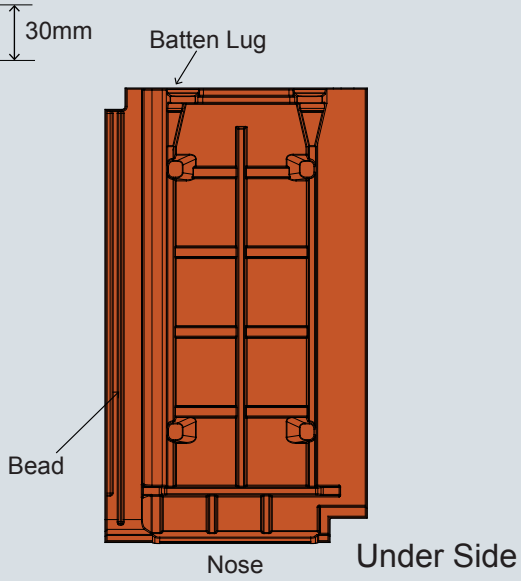


Section - A-A

Section - B-B



Roof Pitch



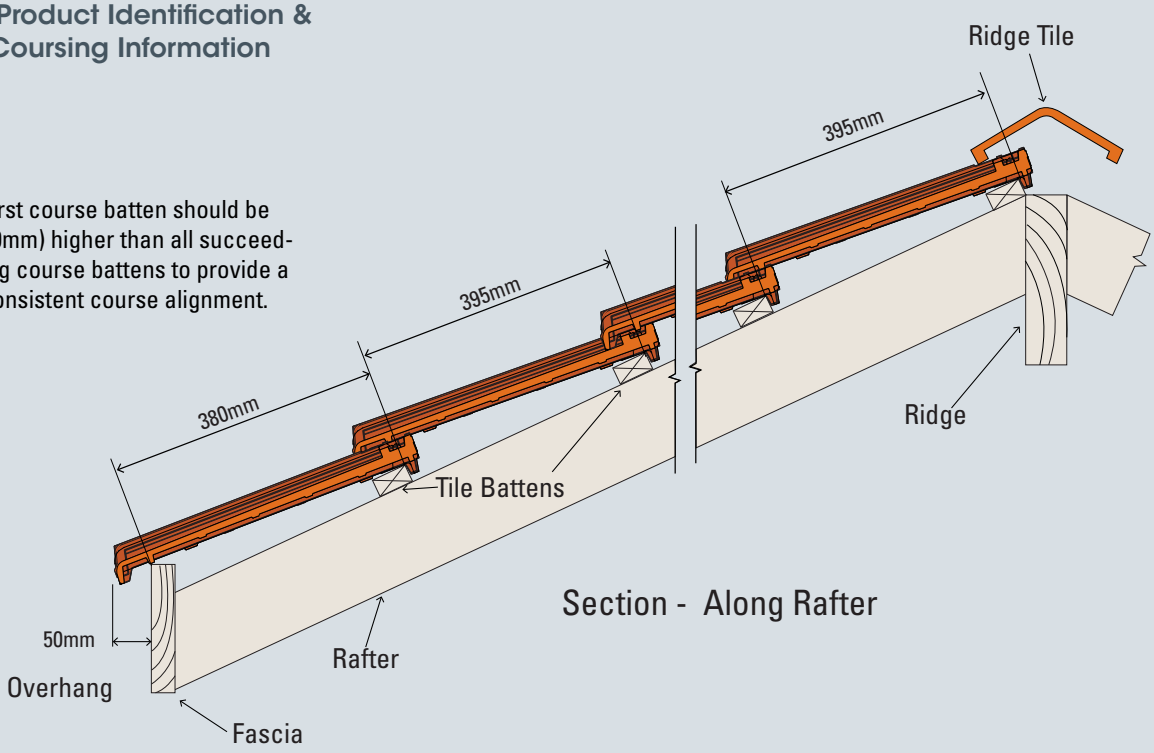
Under Side

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

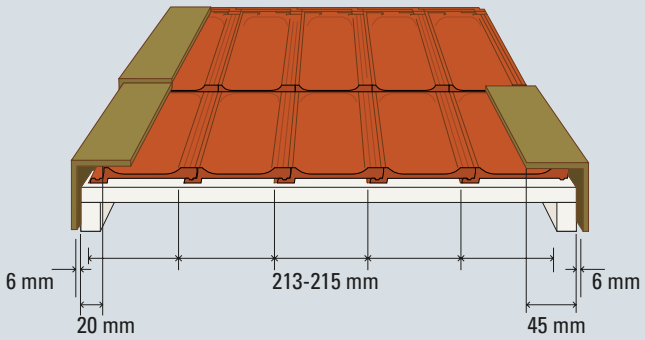
First course batten should be 20mm) higher than all succeeding course battens to provide a consistent course alignment.



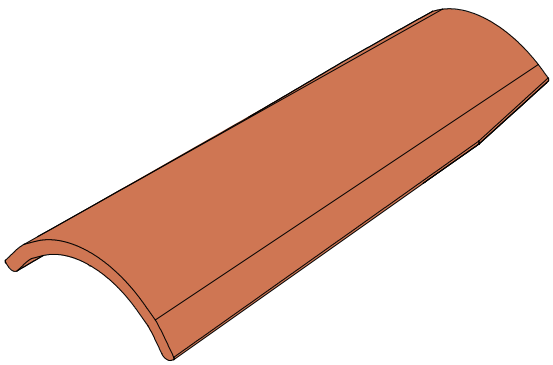
Section - Along Rafter

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

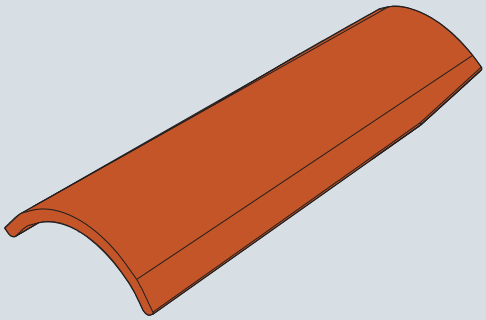
Product Specification	
Min Pitch:	10-27 degrees with roof sheets, 27.1+ degrees with batten installation.
Set Out:	See Longitudinal fit information on page 39
First Batten:	See Longitudinal fit information on page 39
Sarking:	N/A
Dimensions:	See Product Specification Table on page 39
Weight:	See Product Specification Table on page 39
Layed:	Straight Bonded
Tiles Per m2:	See Product Specification Table on page 39
Weight per M^2:	See Product Specification Table on page 39
Cuts per LM:	16
Ridges per LM:	2.5
Batten per M^2	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

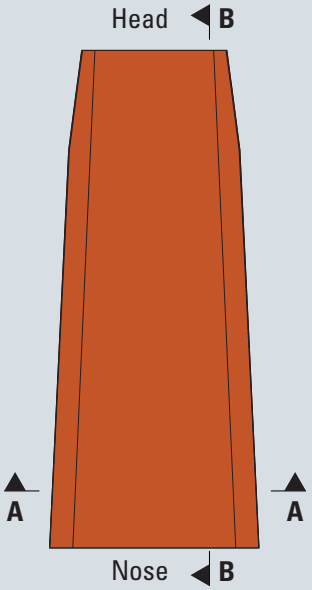
Ridges	Apex	End Cap	Double Roll	Tile	Extras
T5	N/A	Q83 Round Hip End Ridge Cap	N/A	T5	N/A

La Escandella
Medio Curva

Medio Curva Product & Test Specification

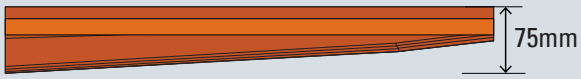


Isometric

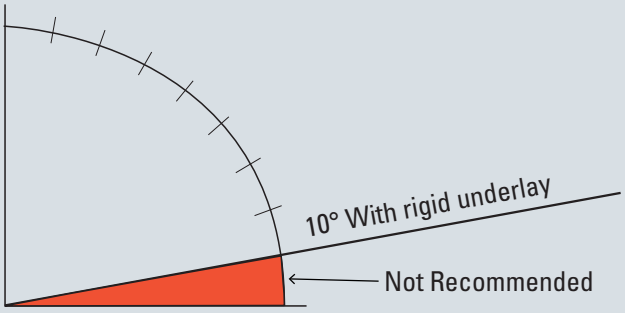


Face Side

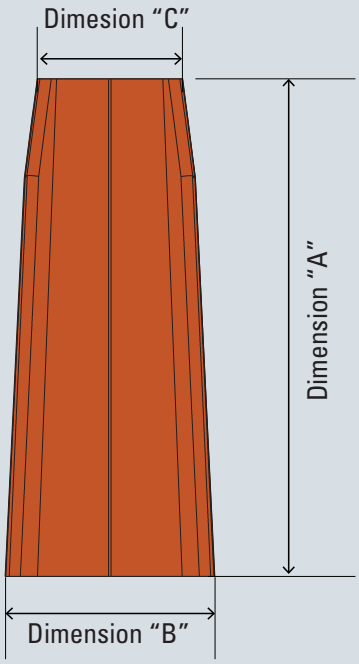
Section - A-A



Section - B-B



Roof Pitch



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	

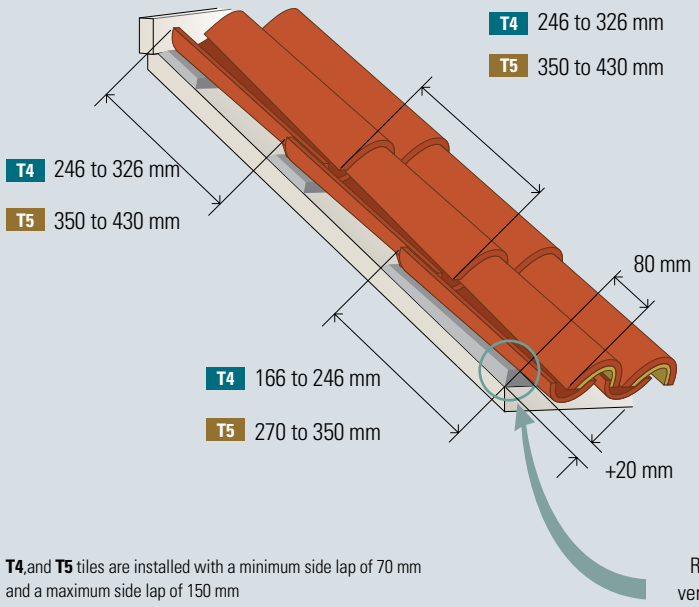
La Escandella
Medio Curva

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

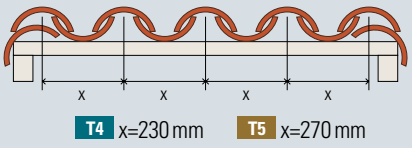


T4,and **T5** tiles are installed with a minimum side lap of 70 mm and a maximum side lap of 150 mm

Raise the first row to provide a vertical alignment and to assure a symmetrical installation

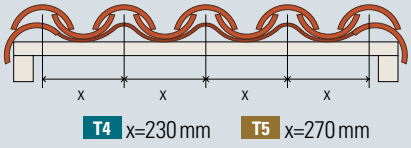
Transversal fit

Mortar fixing of clay roofing tiles



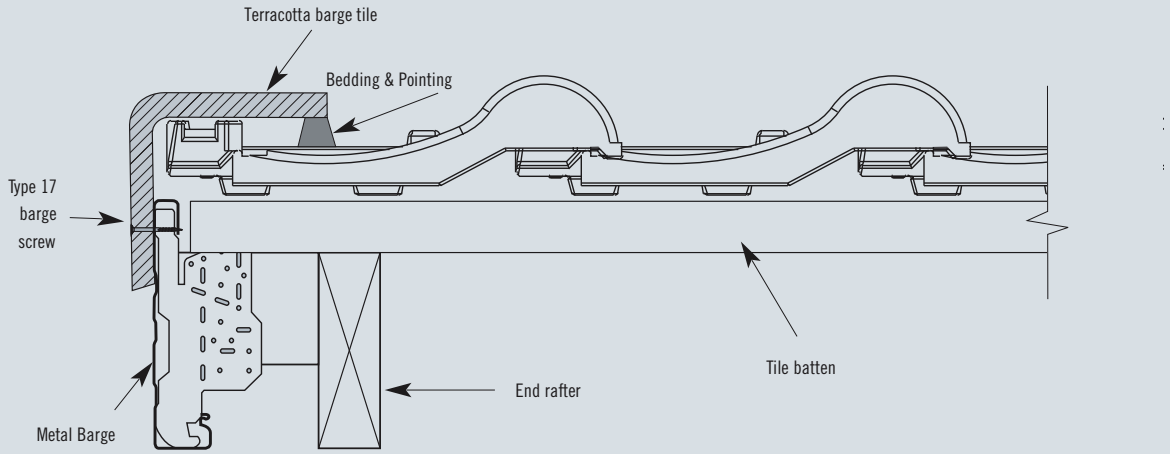
T4 x=230 mm T5 x=270 mm

Fibre cement corrugated sheets fixing Escandella (pre-engineered roof system)



T4 x=230 mm T5 x=270 mm

La Escandella
Clay Barge Tile



Drawing No. BTR012
Not to scale
Author: Bristile Roofing

6
CYGNUS PARADE

Austral Bricks®

Austral Precast®

Austral Masonry®

Associated Companies
Brickworks Group of Companies

BRICKWORKS BUILDING PRODUCTS

Brickworks Building Products™ is one of Australia's largest and most diverse building material manufacturers. Under the Brickworks Building Products™ umbrella are some of Australia's best known building materials brands.

Our products include bricks, pavers, masonry blocks, retaining wall systems, precast concrete panels, concrete and terracotta roof tiles, timber products and specialised façade systems. With a broad product portfolio and manufacturing and sales facilities across Australia, Brickworks Building Products™ is uniquely placed to service the demands of the building industry. With over 1200 staff across Australia and New Zealand, we pride ourselves on our commitment to product and service excellence and our leadership position.

austral bricks since 1908

Founded in 1908, Austral Bricks® is Australia's largest, best-known and most efficient clay brick and paver manufacturer.

Austral Bricks® add distinct style to any type of home. Their natural colours and textures enable you to create striking façade contrasts or more traditional neutral colour tones. By investing in new technology Austral Bricks® now produce bricks with a variety of surface finishes, exciting colours and different sizes. The result is a wonderful range of bricks for you to build a stylish, contemporary home.

BOWRAL BRICKS

When Bowral Bricks began production in 1922, a teenage Don Bradman was still scoring runs for the local side. Today their distinctive dry-pressed bricks are highly valued by discerning architects and builders across the country. The unique combination of traditional craftsmanship and modern technology will ensure that the Bowral Bricks brand will remain the benchmark for brick excellence for many years to come.

nubrik authentic brickwork

With a heritage reaching back to 1862, Nubrik™ premium-quality bricks are still moulded the traditional way on century-old presses. Their time-honoured expression of authenticity and elegance is acknowledged by architects, builders and discerning homebuyers who also value their rich colour blends, solidity and crisply-defined edges.

DANIEL ROBERTSON EST 1853

Since 1853, Daniel Robertson® has helped build Australia with building products that combine craftsmanship with architectural excellence. In a world of mass production, where qualities are constantly compromised, Daniel Robertson® premium-quality clay bricks are highly prized for their unique character, earthy appeal and individual charm.

nzbrick DISTRIBUTORS

Backed by a proud history of more than a century of brickmaking experience, NZ Brick Distributors™ offers New Zealand's most comprehensive range of high quality bricks and pavers in an unmatched palette of colours, textures and sizes, backed by a nation-wide sales and distribution network.

Bristile Roofing™

Auswest Timbers®

Terraçade

austral masonry

Austral Masonry™ is a leading manufacturer and supplier of concrete masonry products focused on providing functional but stylish solutions to the civil, residential, commercial and industrial building and construction markets.

Our passion is to create products to meet the technical and functional demands of the building industry, while also delivering architecturally striking and fashionable finishes to completed building projects. Our range of products includes standard grey concrete blocks, coloured architectural concrete blocks with a range of different finishes and a comprehensive range of retaining walls, pavers and garden edging.

austral precast

In just a few years, Austral Precast® has become Australia's premier supplier of high-quality, innovative and customisable precast concrete building solutions. Using state-of-the-art technology, production techniques and systems, our precast division produces a offer Walling, Flooring, Framework, Stairs, Balcony and Balustrade and collection of PermaTech finishing solutions to ensure design and creative flexibility. To meet the construction industry's ever-increasing demands, the company operates from four plants located along the eastern seaboard and in Western Australia.

bristile roofing

For almost a century, Bristile Roofing™ has delivered stylish and innovative roofing products for Australian homes. Bristile is now one of Australia's largest manufacturers and installers of quality roof tiles and the exclusive Australian distributor of La Escandella premium-quality clay roof tiles from Spain. Product innovation, manufacturing expertise and first-class service guarantee a strong, low maintenance roofing solution that will look great and perform superbly for generations.

auswest timbers

From production facilities in Western Australia, Victoria and the ACT, Auswest Timbers® manufactures a diverse range of timber products. Jarrah, karri and chestnut timbers are processed into a range of decorative, seasoned products for furniture and joinery, flooring, decking, staircase components, veneers and fence screening. Green structural timbers are also processed for mine, wharf and rail track construction, as well as for floor joists, roofing timbers and roof tile battens.

Pronto Panel™

FASTER. BETTER. STRONGER.

Pronto Panel is a non-load bearing panel system that can be used both internally and externally. Pronto Panel's durable, lightweight and simplistic nature makes it perfectly suitable for both residential and commercial applications.

terraçade™

TERRACOTTA FAÇADE SYSTEMS

Façade systems are a cost-and time-efficient approach to cladding commercial and upscale residential buildings. The Terraçade™ system, developed in Australia by Brickworks Building Products, combines the visual appeal and colourfastness of terracotta with the low maintenance and functional efficiency demanded in today's competitive market.

Brickworks Design Centres
Sales & Selection

QLD

Rochedale
105 Gardner Rd
Rochedale
Tel. +61 7 3212 2444

Fortitude Valley
27 James St
Fortitude Valley
Tel. +61 7 3212 2444

Toowoomba
29 Mort St
Toowoomba
Tel. +61 7 3212 2444

Townsville
Lot 2 Blakey St
Garbutt
Tel. +61 7 3212 2444

Cairns
8 Palmer St
Portsmith
Tel. +61 7 3212 2444

NSW

Horsley Park
(NSW Head Office)
738-780 Wallgrove Rd
Tel. +61 2 9830 7888
Fax. +61 2 9830 7889

Sydney
50 Carrington St
Sydney
Tel. +61 2 9830 7388

Albion Park
45 Princes Highway
Albion Park
Tel. +61 2 4257 1566

Bowral
1 Kiama St
Bowral
Tel. +61 2 4871 2322

Newcastle
2 Yangan Dr
Beresfield
Tel. +61 2 4944 6707

Port Macquarie
1/28 Fernhill Rd
Port Macquarie
Tel. +61 2 6581 1533

Punchbowl
62 Belmore Road
North
Punchbowl
Tel. +61 2 9915 9100

VIC

Dandenong
(VIC Head Office)
41 - 55 Elliott Rd
Dandenong
Tel. +61 3 8710 8710
Fax. +61 3 8710 8700

Lynbrook
Cnr Northey Road
& Westport Highway
Lynbrook
Tel. +61 3 8710 8710

Deer Park
972 Western Highway
(Near cnr of Robinson Rd)
Deer Park
Tel. +61 3 9361 8401

Geelong
Surf Coast Highway
Grovedale
(cnr Essington St)
Tel. +61 3 5221 2400

Richmond
490 Swan Street
Richmond
Tel. +61 3 8710 8710

Thomastown
Craigieburn East Rd
Craigieburn
Tel. +61 3 8710 8710

TAS

Hobart
9 Franklin Wharf
Hobart
Tel. +61 3 6212 9120

ACT

Canberra
7 Lithgow St
Fyshwick
Tel. +61 2 9830 7888

SA

Golden Grove
(SA Head Office)
201 Greenwith Rd
Golden Grove
Tel. +61 8 8282 6301
Fax. +61 8 8288 7264

Adelaide
70 Hindmarsh Square,
Adelaide SA 5000
Tel: +61 8 8443 2201
Fax: +61 8 8443 2200

Trading hours
For trading hours please visit www.bristileroofing.com.au

Bristile Roofing Head Office
East Coast

164 Viking Drive
Wacol QLD 4076

Tel. +61 7 3212 2444
Fax. +61 7 3212 2499
Email. infoqld@bristile.com.au

bristileroofing™

1300 274 784
www.bristileroofing.com.au

a member of RTAA ROOFING TILE ASSOCIATION OF AUSTRALIA

proud supporter Children's Cancer Institute

The range of building products from BRICKWORKS BUILDING PRODUCTS

australbricks since 1908 · australprecast · australmasonry · bristileroofing · auswesttimbers · terracade TERRACOTTA FACADE SYSTEMS · Daniel Robertson EST 1853 · nubrik authentic brickwork · BOWRAL BRICKS · Pronto Panel™

The product images shown in this brochure give a general indication of product colour for your preliminary selection.
Bristile Roofing recommends all customers see actual product samples at a selection centre prior to making final selections.