

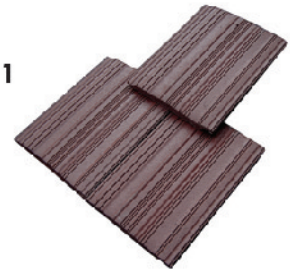
Following the standards and guidelines for Designing Roof Structures is very important especially for a product as durable and long lasting as Colourcon. This is because it will allow the roof to perform effectively for over a lifetime leaving you free of repairs, replacement and maintenance for years.

The Diagrams and Tables given here provides some of the basic information required to follow during roof construction.

## Laying Colourcon

Unless when used in smaller areas, Colourcon tiles should be laid in a staggered manner as shown in Fig. 1. This allows for better protection against leaks during heavy showers but also importantly gives a more natural appearance when using the blended colour range.

Figure 1

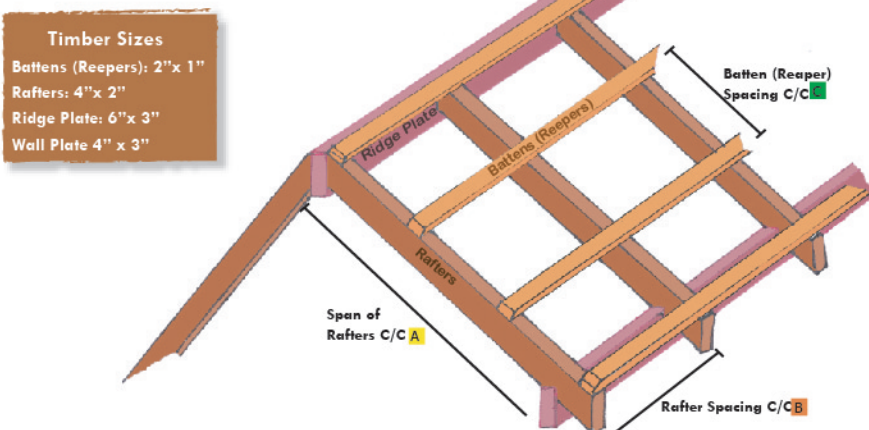


## Roof Structure

Pitch	Using Class 1 Timber Frames			Using Coconut Rafter			Using Concrete Rafter		
	A	B	C	A	B	C	A	B	C
24 to 30 Degrees	8 ft.	18 in.	13.5 in.	7 ft.	18 in.	13.5 in.	10 ft.	20 in.	13.5 in.
30 to 45 Degrees	8 ft.	18 in.	13.5 in.	7 ft.	18 in.	13.5 in.	10 ft.	20 in.	13.5 in.
45 to 60 Degrees	10 ft.	20 in.	14 in.	x	x	x	12 ft.	22 in.	14 in.
60 to 90 Degrees	12 ft.	20 in.	14 in.	x	x	x	12 ft.	22 in.	14 in.

**A** - Rafter Span C/C **B** - Rafter Spacing C/C **C** - Batten (Reeper) Spacing C/C

Class 1 Timber & Concrete Rafters would be best suited for a Colourcon roof however it is also possible to lay on Coconut Rafters provided they are planed well and measure exactly 4"x 2" in size.



**Timber Sizes**  
 Battens (Reepers): 2" x 1"  
 Rafters: 4" x 2"  
 Ridge Plate: 6" x 3"  
 Wall Plate 4" x 3"

## Battens (Reepers)

Colourcon tiles are dimensionally accurate to the millimeter. The grooves and plugs fits perfectly well with the next tile making the roof leak proof. However the effectiveness of the fit depends on the battens to a large degree thus we recommend using better quality timber and planing of battens when laying Colourcon tiles.

Note: Although class 2 timber have been used in some cases, Class 1 timber battens is important when using Coconut Rafters.

## Ridging

Getting the Ridging right is one of the most important and difficult issues in roofing tiles. Colourcon offers two Ridge Profiles (Standard & Thai) that adapt well to different situations such as high pitched slopes. Most crucial is having the tiles from both planes to meet as closely as possible (maximum gap should be 40mm.) and pasting the Colourcon Ridge Flexi Guard™ in between them to prevent any water leaks. Then some cement mortar should be applied under the ridge to hold it in place however it should be in minimal quantity and it made as less visible as possible. Its best apply the mortar with a mixture of colour powder and water-proofing to avoid emissions of natural efflorescence.

Note: Timber sizes specified are specific dimensions.  
 Our recommendations are subject to clarification by Structural Engineers.

### Coverage:

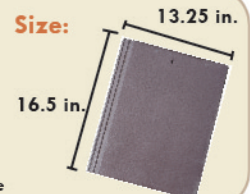
89 tiles per 100 sq.ft\*

### Weight:

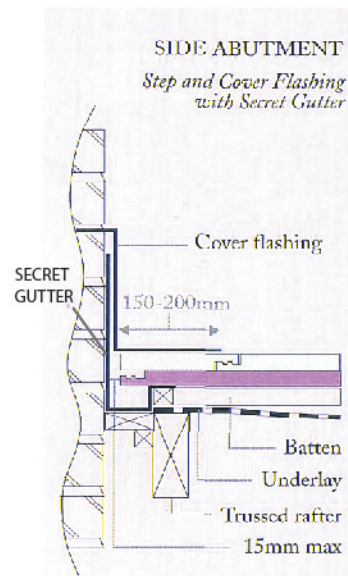
4.4kg - 4.75kg per sq.ft

\* Calculations on standard structure

### Size:



Note: Weight of Flat Tile range is 10-15% more than Double Roman



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