

Cedar Shake Specification

1. Estimating

Shakes can be applied at a variety of gauges but, like Shingles, there are three standard gauges. The minimum pitch shakes may be applied at is 20°.

- a) Roofs 3 ply (3 course) shakes applied at a 190mm gauge = 1.39m² per bundle.
- b) Roofs 2 ply (2 course) shakes applied at a 250mm gauge = 1.83m² per bundle.
- c) Vertical (max gauge) shakes applied at a 290mm gauge = 2.12m² per bundle.

N.B. These are exact areas and do not allow for cutting and wastage.

In addition for all cases allow extra for the following:

- i) Starter Course, *either*
 - a. double course of shingles - 1 bundle to 9 lin.m. *or*
 - b. single course of shakes - 1 bundle to 7 lin.m.
- ii) Valleys - 2 bundles for every 7.5 lin.m.
- iii) Hips & Ridges* - 2 bundles for every 7.5 lin.m.(traditional method)

*There is no pre-formed capping available.

2. Nails

For maximum life, fixings should be made with 2 no. 45mm x 2.36mm silicon bronze or stainless steel nails per Shake. As a guide 0.9kg of nails is required for 4 bundles of Shakes.

3. Fixing Method

The Shakes are fixed as per Cedar Shingles directly on to the batten at the specified gauge. Shakes are normally fixed directly to the upper parts of the battens (thereby avoiding conflict with the felt underlay nails) and applied in straight single courses. A starter/ eaves course of one or two layers of Cedar Shingles is overlaid with a single course of Shakes.

Hips and ridges are formed with alternative bevels laid to the same gauge as the plain roof.

For roof pitches of 20° - 30°, a breathable roofing felt interlay, complying with BS 747:1977 Type IF, is required between the Shake courses to act as a baffle to prevent the ingress of wind driven snow or other foreign matter into the roof space.

The strips of felt should be fastened to the lower part of the next batten exposed above the head of the Shake, and the lower edge of the felt should be at a distance above the butt equal to twice the weather exposure. For example, 600mm Shakes laid with a 250mm exposure would have felt applied 500mm above the butt. Thus the felt will

cover the top 100mm of the Shakes and extend 357mm onto the sheathing. Note that the top edge of the felt must rest on the spaced sheathing.

As an alternative for steeper pitches where the slope of the roof is over 30° a more simple method of fixing may be used. A breather type of roofing felt is laid over the rafters and battened in the traditional fashion. We would recommend using a 3 ply roof construction in this case.

In conditions of severe climatic exposure or other exceptional applications, please contact John Brash & Company Ltd for further advice.

4. Coverage Table

SHAKES - WEIGHT			
Based on one bundle of handsplit and re-sawn shakes			
	Weight per Bundle	Weight per m ²	
		250mm gauge	190mm gauge
Clean	13kg	7.1kg	9.35kg
Preservative treated	20kg	10.93kg	14.39kg
Fire retardant treated	15kg	8.2kg	10.8kg
SHAKES - COVERAGE			
Based on one bundle of handsplit and re-sawn 600x19mm 'heavy' shakes			
	Exposure/Gauge		
	190mm	250mm	290mm
Coverage	1.39m ² *	1.83m ² †	2.12m ² ‡

- * - Maximum recommended exposure for 3-ply roof construction
- † – Maximum recommended exposure for 2-ply roof construction
- ‡ – Maximum recommended exposure for single course on walls