

## Shingles & Shakes Technical Specification -

600mm Handsplit Shakes, Fancy Butt Profiles, Hip & Ridge Units, Royal Shingle, XXXXX Shingle

### XXXXX Shingle

<b>Colour</b>	Natural, varying reddish brown to pale yellow			
<b>Grade</b>	Blue Label, 100% Heartwood, 100% Edge Grain and 100% Clear			
<b>Size</b>	400mm long, random widths 75mm-350mm			
<b>Thickness</b>	10mm at the butt, tapering			
<b>Profile</b>	Sawn both sides, rectangular			
<b>Bundle</b>	Approx. 120 pieces			
<b>Max. Pitch</b>	90°			
<b>Min. Pitch</b>	14°			
<b>Min. Side Lap</b>	38mm			
<b>Max Gauge</b>		<b>Coverage m<sup>2</sup> per bundle</b>	<b>Laid weight kg m<sup>2</sup> clean/treated/FRT</b>	<b>Battens per m<sup>2</sup></b>
90°	190mm	3.47	4.0/8.1/4.6	5.3m
22 - 90°	125mm	2.28	6.1/12.3/7.0	8.0m
14 - 22°	95mm	1.73	8.1/16.2/9.3	10.5m
<b>Min. Batten Size</b>	<b>(JB Red Battens)</b>			
90°	25 x 50			
450mm centres	25 x 38			
600mm centres	25 x 38			
<b>Weight</b>	<b>Per bundle</b>	<b>Per pallet (24 bundles)</b>		
Clean	14kg	336kg		
Treated	28kg	672kg		
FRT	16kg	382kg		
<b>Nail Size</b>				
Silicon Bronze	31mm x 1.8mm (0.2kg per bundle)			
S/S Staple S16	38mm 'C' point			
<b>Performance</b>				
Clean				
Roofing	Expected life 20-40 years dependant on use and aspect			
Cladding	Expected life 40-60 years			
Treated				
Roofing	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
Cladding	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
FRT				
Roofing	Expected life 40 years			
Cladding	Expected life 40-60 years			
<b>Fire</b>				
Clean	N/A			
Treated	C/B to BS476 pt 3: 2004			
FRT				
Vertical Cladding	BS EN 13501-1 Euroclass B or C			
Roofing	AA/P60 To BS476 pt 3:2004			

## Royal Shingle

<b>Colour</b>	Natural, varying reddish brown to pale yellow			
<b>Grade</b>	Blue Label, 100% Heartwood, 100% Edge Grain and 100% Clear			
<b>Size</b>	600mm long, random widths 75mm-300mm			
<b>Thickness</b>	13mm at the butt, tapering			
<b>Profile</b>	Sawn both sides, rectangular			
<b>Bundle</b>	Approx. 76 pieces			
<b>Max. Pitch</b>	90°			
<b>Min. Pitch</b>	14°			
<b>Min. Side Lap</b>	38mm			
<b>Max Gauge</b>		<b>Coverage m<sup>2</sup> per bundle</b>	<b>Laid weight kg m<sup>2</sup> clean/treated/FRT</b>	<b>Battens per m<sup>2</sup></b>
90°	290mm	3.53	4.0/8.1/4.6	3.5m
22 - 90°	190mm	2.31	6.1/12.3/7.0	5.3m
14 - 22°	140mm	1.70	8.1/16.2/9.3	7.2m
<b>Min. Batten Size</b>	<b>(JB Red Battens)</b>			
90°	25 x 50			
450mm centres	25 x 38			
600mm centres	25 x 38			
<b>Weight</b>	<b>Per bundle</b>	<b>Per pallet (24 bundles)</b>		
Clean	14kg	336kg		
Treated	28kg	672kg		
FRT	16kg	382kg		
<b>Nail Size</b>				
Silicon Bronze	31 mm x 1.8mm			
S/S Staple S16	38mm 'C' point			
<b>Performance</b>				
Clean				
Roofing	Expected life 20-40 years dependant on use and aspect			
Cladding	Expected life 40-60 years			
Treated				
Roofing	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
Cladding	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
FRT				
Roofing	Expected life 40 years			
Cladding	Expected life 40-60 years			
<b>Fire</b>				
Clean	N/A			
Treated	C/B to BS476 pt 3: 2004			
FRT				
Vertical Cladding	BS EN 13501-1 Euroclass B or C			
Roofing	AA/P60 To BS476 pt 3:2004			

## Hip & Ridge Units - Shingle

<b>Colour</b>	Natural, varying reddish brown to pale yellow			
<b>Grade</b>	Blue Label, 100% Heartwood, 100% Edge Grain and 100% Clear			
<b>Size</b>	450mm long, mitred right and left hand units, 2 widths 125mm (standard) & 190mm (extra wide, ideal for use with ridge vent system)			
<b>Thickness</b>	11mm at the butt, tapering			
<b>Profile</b>	Sawn both sides, rectangular			
<b>Bundle</b>	36 pieces, 18 LH & 18 RH			
<b>Max. Pitch</b>	90°			
<b>Min. Pitch</b>	14°			
<b>Min. Side Lap</b>	N/A			
<b>Max Gauge</b>		<b>Coverage m<sup>2</sup> per bundle</b>	<b>Laid weight kg m<sup>2</sup> clean/treated/FRT</b>	<b>Battens per m<sup>2</sup></b>
90°	N/A	N/A	N/A	N/A
22 - 90°	125mm		4.5 6.1/12.3/7.0	N/A
14 - 22°	95mm		3.4 8.1/16.2/9.3	N/A
<b>Min. Batten Size</b>	<b>(JB Red Battens)</b>			
90°	N/A			
450mm centres	N/A			
600mm centres	N/A			
<b>Weight</b>	<b>Per bundle</b>	<b>Per pallet (24 bundles)</b>		
Clean	14kg	336kg		
Treated	28kg	672kg		
FRT	16kg	382kg		
<b>Nail Size</b>				
Silicon Bronze	45mm x 2.65mm			
S/S Staple S16	38mm 'C' point			
<b>Performance</b>				
Clean				
Roofing	Expected life 20-40 years dependant on use and aspect			
Cladding	Expected life 40-60 years			
Treated				
Roofing	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
Cladding	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
FRT				
Roofing	Expected life 40 years			
Cladding	Expected life 40-60 years			
<b>Fire</b>				
Clean	N/A			
Treated	C/B to BS476 pt 3: 2004			
FRT				
Vertical Cladding	BS EN 13501-1 Euroclass B or C			
Roofing	AA/P60 To BS476 pt 3:2004			

## Fancy Butt Profiles - Shingle

<b>Colour</b>	Natural, varying reddish brown to pale yellow			
<b>Grade</b>	Blue Label, 100% Heartwood, 100% Edge Grain and 100% Clear			
<b>Size</b>	450mm long, 125mm wide. Square, round arrow and diamond profiles			
<b>Thickness</b>	11mm at the butt, tapering			
<b>Profile</b>	Sawn both sides, rectangular, shaped butts/ends			
<b>Carton</b>	96 pieces			
<b>Max. Pitch</b>	90°			
<b>Min. Pitch</b>	22°			
<b>Min. Side Lap</b>	38mm			
<b>Max Gauge</b>		<b>Coverage m<sup>2</sup> per bundle</b>	<b>Laid weight kg m<sup>2</sup> clean/treated/FRT</b>	<b>Battens per m<sup>2</sup></b>
90°	190mm	2.28	4.8/9.7/5.5	5.3m
22 - 90°	125mm	1.50	7.3/14.7/8.3	8.0m
<b>Min. Batten Size</b>	<b>(JB Red Battens)</b>			
90°	25 x 50			
450mm centres	25 x 38			
600mm centres	25 x 38			
<b>Weight</b>	<b>Per carton, 96 pieces</b>	<b>Per pallet</b>		
Clean	11kg	N/A		
Treated	22kg	N/A		
FRT	12.5kg	N/A		
<b>Nail Size</b>				
Silicon Bronze	31mm x 1.8mm (0.2kg per carton)			
S/S Staple S16	38mm 'C' point			
<b>Performance</b>				
Clean				
Roofing	Expected life 20-40 years dependant on use and aspect			
Cladding	Expected life 40-60 years			
Treated				
Roofing	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
Cladding	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
FRT				
Roofing	Expected life 40 years			
Cladding	Expected life 40-60 years			
<b>Fire</b>				
Clean	N/A			
Treated	C/B to BS476 pt 3: 2004			
FRT				
Vertical Cladding	BS EN 13501-1 Euroclass B or C			
Roofing	AAP60 To BS476 pt 3:2004			

## 600mm Handsplit & Resawn Shakes

<b>Colour</b>	Natural, varying reddish brown to pale yellow			
<b>Grade</b>	Blue Label, 100% Heartwood, 100% Edge Grain and 100% Clear			
<b>Size</b>	600mm long, random widths 75mm - 300mm			
<b>Thickness</b>	19mm at the butt, tapering			
<b>Profile</b>	Hand split face, sawn back, rectangular			
<b>Bundle</b>	Approx. 44 pieces			
<b>Max. Pitch</b>	90°			
<b>Min. Pitch</b>	20°			
<b>Min. Side Lap</b>	38mm			
<b>Max Gauge</b>		<b>Coverage m<sup>2</sup> per bundle</b>	<b>Laid weight kg m<sup>2</sup> clean/treated/FRT</b>	<b>Battens per m<sup>2</sup></b>
90°	290mm	2.12	6.1/9.5/7.1	3.5m
30 - 90°	190mm(1)	1.39	9.4/14.4/10.8	5.3m
20 - 30°	250mm(2)	1.83	7.1/10.9/8.2	4.0m
<b>Min. Batten Size</b>	<b>(JB Red Battens)</b>			
90°	25 x 50			
450mm centres	25 x 50			
600mm centres	25 x 50			
<b>Weight</b>	<b>Per bundle</b>	<b>Per pallet (20 bundles)</b>		
Clean	13kg	260kg		
Treated	20kg	400kg		
FRT	15kg	300kg		
<b>Nail Size</b>	Silicon Bronze 45mm x 2.65mm (0.2kg per bundle)			
<b>Performance</b>	Clean			
Roofing	Expected life 20-40 years dependant on use and aspect			
Cladding	Expected life 40-60 years			
<b>Treated</b>	Roofing			
Cladding	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
<b>FRT</b>	Roofing			
Cladding	Guaranteed 40 years* to BS 8417:2011. Expected life 40-60 years * See terms & conditions			
<b>Fire</b>	Clean			
Treated	N/A			
FRT	C/B to BS476 pt 3: 2004			
Vertical Cladding	BS EN 13501-1 Euroclass B or C			
Roofing	AAP60 To BS476 pt 3:2004			

- (1) Maximum gauge 190mm if using a 3 ply construction with no interleaving or felt baffle.  
 (2) Must use felt interleaving or felt baffle in between each course.



## Technical Specification



### Botanical Species

The botanical name of Western Red Cedar (WRC) is *Thuja Plicata*, also known as British Columbian Red Cedar, Giant Arborvitae and Red Cedar.

### Species Information

The 'Tree of Life' - Western Red Cedar (WRC) is one of the 2 aborvitae species native to North America, the other being Eastern White Cedar.

WRC is one of the few timber species that is naturally at home in the outdoors. Properly finished it will last for decades, even in harsh environments. Its natural resistance to moisture, decay and insect damage make it the ideal choice for a surface that is exposed to sun, rain, heat and cold all year round. The tree's ability to naturally produce the two principal extractives that are responsible for decay resistance, thujaplicans and water-soluble phenolics, increases with age, making the outer regions of heartwood the most durable. The timber is non-resinous and usually has a straight grain of a fine to medium texture.

### Movement, Moisture & Workability

Both imported & home-grown cedar is classified as 'small movement' as per BS 1186:Part 2:1988, and as such will lose approximately 1% of dimension for every 5% of moisture lost below fibre saturation point, which for WRC is 30%. Therefore if WRC is dried from 30% to 15% moisture level it would be expected to shrink dimensionally by approximately 3%.

Like all timbers, WRC is hygroscopic and will absorb or discharge moisture to attain equilibrium with the relative humidity in the surrounding atmosphere. In addition to being classified as a 'small movement' timber in terms of dimensional movement, WRC offers low density and shrinkage factors and due to these characteristics has twice the stability of most commonly available softwoods, and is also superior to all other coniferous timbers in its resistance to warping and twisting.

WRC lies flat, stays straight and holds fixings tightly. With its straight grain and uniform texture.

