Western Red Cedar
Shingles & Shakes
Western Red Cedar Shingles & Shakes

Western Red Cedar shingles & shakes offer an excellent alternative to traditional roofing and cladding materials due to their durability, attractive appearance, outstanding insulation properties and ease of installation.

Cedar shingles and shakes have been used for hundreds of years and have proven their durability in all kinds of climates. They can be used to create striking buildings, and their rich, warm colour and texture blend beautifully in any natural environment.

Suitable for commercial and residential projects alike, shingles and shakes provide an outstanding natural option for roofing and cladding.

Natural beauty
- Cedar shingles and shakes have a natural warmth and beauty impossible to recreate in man made alternatives

Low carbon footprint
- Uses the lowest amount of energy to produce of any roofing product
- Production emits the lowest pollution of any roofing product

Highest insulation resistance value
- Buildings stay warmer in winter and cooler in summer
- ‘R Value’ double that of asphalt (bitumen), four times that of cement fibre

Durability
- 50+ year life expectancy
- Natural oils act as preservatives against decay and insect attack
- Durability Class 2 (BSEN350:2)

Resilience against high winds
- Installation method provides outstanding rigidity
- ‘Uplift tested’ to withstand wind speeds of over 170mph

Renewable resource
- The only renewable roofing resource
- Other roofing produced by permanently extracting natural resources
- PEFC Certified forest stewardship ensures true sustainability

Silva Timber are the only member of the Cedar Shake & Shingle Bureau outside of North America. The Bureau monitors and inspects member mills to ensure product quality, grading rules and consistency of Certi-Label cedar shingles and shakes are maintained.

Silva Timber’s Western Red Cedar Shingles & Shakes are PEFC Certified as standard. PEFC works throughout the entire forest supply chain to ensure that timber forest products are produced with respect for the highest ecological, social and ethical standards.
Certigrade™ - quality & consistency assured

Not all cedar shingle and shake products are alike. Certi-Label™ products, manufactured by Cedar Shake & Shingle Bureau members, assure you of the highest quality standards.

As part of the Certi-Wood™ family, Certi-Label™ cedar shingles and shakes are manufactured by experienced craftsmen who take pride in their trade and the quality of their product. Member mills are bound together by a rigid code and independent inspections ensure that product quality is maintained.

Silva Timber only buy Certigrade™ products from Cedar Shake & Shingle Bureau members to ensure product quality and consistency. Not all Western Red Cedar shingles and shakes in the UK are the same.

Member mills have committed to consistent quality through independent third-party inspections by accredited agencies. Each bundle of product has the mill’s distinctive Certi-Label™ tucked under the bundle strap. Asking for ‘the blue label’ or ‘number one blue label’ is not specific enough. Cedar Bureau members’ products are the only ones with the Certi brand name on the label.

For quality assurance, always specify Certi-Label™ products.
Certigrade™ Western Red Cedar shingles

Shingles are sawn on both sides, have a relatively smooth face and back and are available in four grades, depending on the application and desired appearance.

Certigrade™ No.1 Grade (Blue Label) Shingles

The premium grade of shingles suitable for high-end roofs and wall cladding applications.

These top-grade shingles are 100% heartwood, 100% clear and 100% edge grain with no defects.

Available in 405mm, 455mm and 610mm lengths with pre-finished treatments available on request.

Beware of imitation products

The term ‘Blue Label’ is a registered trademark of the Cedar Shake & Shingle Bureau trade association which has over 250 member companies. Be aware that just because a supplier puts a label in a blue colour on its bundles does not mean that it’s on grade or third party inspected. Certigrade™ Western Red Cedar Shingles are inspected by legitimate, third party agencies, accredited by the Cedar Shake & Shingle Bureau.
Alternative shingle grades

These grades offer excellent economical options for non-residential buildings and garden structures.

Certigrade™ No.2 Grade (Red Label) Shingles

A good grade for general applications. Not less than 280mm clear on 455mm shingles. Flat grain and limited sapwood are permitted in this grade.

Ideal for: Garden buildings & offices, non residential buildings, summer houses, garages, car ports etc

Certigrade™ No.3 Grade (Black Label) Shingles

A utility grade for economy applications. Not less than 150mm clear on 455mm shingles. Unlimited sapwood and flat grain are permitted. Limited knots/defects allowed above clear portion.

Ideal for: Treehouses, sheds, garden structures, pergolas, log stores, kennels etc

Certigrade™ No.4 Grade (Green Label) Shingles

A utility grade for undercoursing. Unlimited sapwood and flat grain are permitted in this grade. Knots, holes and other defects permitted throughout.

Ideal for: Undercoursing and small hobby projects only

Certigrade™ Western Red Cedar Shakes

Shakes have a thicker butt-end than shingles which creates a deeper shadow line along each course. Shakes are available tapersawn for a uniform appearance, or handsplit, for a rougher, more rustic appearance.

Certi-split™ Premium Grade Handsplit Shakes

Produced by splitting cedar blocks with a hydraulically powered knife into straight boards, or ‘blanks’. The blanks are then sawn from corner to corner, producing two tapered shakes, each with a rustic split face and a smooth, sawn back.

Certi-sawn™ Premium Grade Tapersawn Shakes

Produced by sawing a ‘blank’ at an angle on both faces to achieve a gradient, tapersawn shakes have the appearance of a smooth faced shingle, but with the extra thickness of a shake.

Certi-sawn™ No.2 Grade Tapersawn Shakes

A versatile grade with a high proportion of clear defect free material that will suit a variety of applications.
Case Study - Durham University

Four years in the making, the Palatine Centre at Durham University was designed and built with sustainability at the forefront of the mindset from the beginning. The £50 million University development programme creates a hub at the heart of the city of Durham.

Green technologies and eco-friendly materials were specified throughout the supply chain, with Silva Timber’s Western Red Cedar Shingles matching the architect’s requirements perfectly.

Materials and technologies such as solar thermal collectors, photovoltaic panels, solar shading and rainwater harvesting sit alongside the Certigrade™ Western Red Cedar roof shingles to provide an ‘excellent’ rating on the Building Research Establishment’s Environmental Assessment Method (BREEAM).

Western Red Cedar Shingles are an ideal material when considering sustainability, being the only truly renewable roofing resource.

Tests have proven Western Red Cedar Shingles to have a superior insulating value to other roofing products, meaning buildings stay warmer in the winter and cooler in summer.

Silva Timber are the only member of the Cedar Shake & Shingle Bureau outside of North America. The Bureau monitors and inspects member mills to ensure product quality, grading rules and consistency of Certi-Label™ cedar shingles and shakes are maintained.

Case Study - Lady Heyes Park

Glamping, or ‘glamorous camping’, combines camping with some of the luxuries found at home or in a hotel. Camping in style and comfort is attractive to many and unsurprisingly has caught on very quickly in the UK.

One of the latest locations to find luxury glamping pods is Lady Heyes Touring Caravan Park, a highly rated camping site in Frodsham, Cheshire. Each pod includes a Television, WiFi internet and a Jacuzzi.

In search of a natural roofing material befitting of the pods, owner Tony Faulkner visited Silva Timber, who recommended Certigrade™ No.1 Grade (Blue Label) Western Red Cedar Shingles. After seeing the shingles at Silva Timber’s premises, Tony decided that they provided the ideal solution.

Western Red Cedar provides a combination of unique texture, beautiful appearance and pleasing aroma that cannot be obtained using a non-timber alternative. These attributes help the Glamping pods whisk the dweller away into the ‘one with nature’ mind frame.
How to read a Certi-Label™

All Silva Timber Western Red Cedar shingles and shakes conform to the Cedar Shingle and Shake Bureau Certi-label™ grading rules. Each bundle is strapped with a label containing important information to distinguish it as a Certi-brand graded bundle.

The below image shows what to look out for on a bundle. Remember, just having a blue label is not enough to be classed as a Certi-brand shingle or shake product and may contain off-grade shingles that could compromise the integrity of the roof or wall upon which they are installed.

1. The “Certi” Brand Name - your quality assurance
2. Product Grade
3. Product Type
4. Independent Third Party Control Agency
5. Number here shows compliance with total quality manufacturing system
6. Mill name, location and phone number
7. Industry product description
8. Product dimensions
9. Cedar Bureau Label Number
10. Building Code Compliance Numbers
11. Product performance tests these materials have passed
12. Label identification number
13. UPC Code
14. Coverage chart showing bundles per 100 square feet and recommended exposure
15. Application instructions on reverse side

Installation Guidelines

Battens
Typically shingles or shakes are nailed to treated softwood battens of 25 x 38mm minimum dimension.

Batten spacing to coincide with the weather exposure of the shingle or shake. See overleaf for exposure guides.

Joint spacing
Spacing between adjacent shingles (joints) should be between 6-9mm
Spacing between adjacent shakes (joints) should be between 9-16mm

For both shingles and shakes, joints in any one course should be separated not less than 38mm from joints in adjacent courses, and in any three courses, no two joints should be in direct alignment.

Double coursing
Shingles and shakes must be double or triple coursed at all roof eaves. Butts of first course shingles and shakes should project 38mm beyond the fascia and approximately 25mm over the gable or rake end.

Nails
Stainless steel annular ringshank nails are recommended for installing shingles and shakes. Use 1.8 x 31mm for shingles and 2.65 x 50mm for shakes. Apply two nails only per shingle or shake, 38-50mm above the exposure line and 19-25mm in from the edges.

Breathable membrane
A breathable, water-resistant membrane may be installed between the roof and battens. Silva Timber recommend and stock DuPont™ Tyvek® Supro.

Treatment & Protection
Silva Timber can supply Western Red Cedar shingles and shakes with a range of pre-finished treatments including:

- Tanalith Treated - improved performance against insect attack and fungal decay
- Osmose Naturewood - preservative treatment
- NON-COM® EXTERIOR - fire retardation treatment for exterior or damp situations

Please note this information is intended as a basic guide only. A detailed installation manual, grading documents, BIM objects and technical advice can be downloaded from www.silvatimber.co.uk/specify.
### Specifications

Three sizes of shingles are available; the industry term for these are ‘Fivex’, ‘Perfection’ and ‘Royal’. Two types of shakes are available - ‘Handsawn’ and ‘Tapersawn’.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Length</th>
<th>Butt Thickness</th>
<th>Width*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certigrade™ No.1</td>
<td>Fivex</td>
<td>405mm</td>
<td>Random (100 to 355mm)</td>
</tr>
<tr>
<td>Grade (Blue Label)</td>
<td>Perfection</td>
<td>455mm</td>
<td>11mm</td>
</tr>
<tr>
<td>Shingles</td>
<td>Royal</td>
<td>610mm</td>
<td>Random (100 to 355mm)</td>
</tr>
<tr>
<td>Certigrade™ No.2</td>
<td>Fivex</td>
<td>405mm</td>
<td>Random (100 to 355mm)</td>
</tr>
<tr>
<td>Grade (Red Label)</td>
<td>Perfection</td>
<td>455mm</td>
<td>11mm</td>
</tr>
<tr>
<td>Shingles</td>
<td>Royal</td>
<td>610mm</td>
<td>Random (100 to 355mm)</td>
</tr>
<tr>
<td>Certigrade™ No.3</td>
<td>Fivex</td>
<td>405mm</td>
<td>Random (100 to 355mm)</td>
</tr>
<tr>
<td>Grade (Black Label)</td>
<td>Perfection</td>
<td>455mm</td>
<td>11mm</td>
</tr>
<tr>
<td>Shingles</td>
<td>Royal</td>
<td>610mm</td>
<td>Random (100 to 355mm)</td>
</tr>
<tr>
<td>Certi-sawn™</td>
<td>Royal</td>
<td>610mm</td>
<td>Random (100 to 355mm)</td>
</tr>
<tr>
<td>Premium Grade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tapersawn Shakes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certi-sawn™ No.2</td>
<td>Royal</td>
<td>610mm</td>
<td>Random (100 to 355mm)</td>
</tr>
<tr>
<td>Grade Tapersawn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shakes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certi-split™</td>
<td>Royal</td>
<td>610mm</td>
<td>Random (100 to 355mm)</td>
</tr>
<tr>
<td>Premium Grade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Handsplit Shakes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*+/- tolerance allowed within grading rules. See grading sheets on website for details

### Shingle Coverage

Approximate coverage of one bundle of singles with 8mm spacing based on the following weather exposures (m²)

<table>
<thead>
<tr>
<th>Grade</th>
<th>90mm</th>
<th>100mm</th>
<th>115mm</th>
<th>125mm</th>
<th>140mm</th>
<th>150mm</th>
<th>165mm</th>
<th>190mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certigrade™ No.1</td>
<td>1.7</td>
<td>1.9</td>
<td>2.1</td>
<td>2.3</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Grade (Blue Label)</td>
<td>Perfection</td>
<td>1.7</td>
<td>1.9</td>
<td>2.1</td>
<td>2.3</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Shingles</td>
<td>Royal</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1.7</td>
<td>1.9</td>
<td>2.0</td>
<td>2.3</td>
</tr>
<tr>
<td>Certigrade™ No.2</td>
<td>1.7</td>
<td>1.9</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Grade (Red Label)</td>
<td>Perfection</td>
<td>1.5</td>
<td>1.7</td>
<td>1.9</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Shingles</td>
<td>Royal</td>
<td>1.5</td>
<td>1.7</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Certigrade™ No.3</td>
<td>1.5</td>
<td>1.7</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Grade (Black Label)</td>
<td>Perfection</td>
<td>1.7</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Shake Coverage

Approximate coverage of one bundle of shakes with 13mm spacing based on the following weather exposures (m²)

<table>
<thead>
<tr>
<th>Grade</th>
<th>190mm</th>
<th>215mm</th>
<th>255mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certi-sawn™</td>
<td>1.7</td>
<td>1.9</td>
<td>2.3</td>
</tr>
<tr>
<td>Premium Grade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tapersawn Shakes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certi-sawn™ No.2</td>
<td>1.7</td>
<td>1.9</td>
<td>2.3</td>
</tr>
<tr>
<td>Grade Tapersawn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shakes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certi-split™</td>
<td>1.9</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Premium Grade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Handsplit Shakes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Shingle Exposure

Maximum exposure recommended for roofs and walls (mm)

<table>
<thead>
<tr>
<th>Pitch</th>
<th>No.1 Grade (Blue Label)</th>
<th>No.2 Grade (Red Label)</th>
<th>No.3 Grade (Red Label)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fivex</td>
<td>Perfection</td>
<td>Royal</td>
</tr>
<tr>
<td>14º - 19º</td>
<td>95</td>
<td>125</td>
<td>146</td>
</tr>
<tr>
<td>19º &amp; steeper</td>
<td>125</td>
<td>140</td>
<td>190</td>
</tr>
<tr>
<td>Walls (single course)</td>
<td>175</td>
<td>200</td>
<td>265</td>
</tr>
<tr>
<td>Walls (double course)</td>
<td>300</td>
<td>350</td>
<td>400</td>
</tr>
</tbody>
</table>

### Shake Exposure

Maximum exposure recommended for roofs and walls (mm)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Certi-sawn™ Premium Grade Tapersawn Shakes</th>
<th>Certi-sawn™ No.2 Grade Tapersawn Shakes</th>
<th>Certi-split™ Premium Grade Handsplit Shakes</th>
</tr>
</thead>
<tbody>
<tr>
<td>19º &amp; steeper</td>
<td>255</td>
<td>215</td>
<td>255</td>
</tr>
<tr>
<td>Walls (single course)</td>
<td>265</td>
<td>225</td>
<td>265</td>
</tr>
<tr>
<td>Walls (double course)</td>
<td>455</td>
<td>265</td>
<td>455</td>
</tr>
</tbody>
</table>
Cheshire (Warehouse & Sales)
Unit 4, Albright Road, Widnes, Cheshire, WA8 8FY
Tel: 0151 495 3111  Fax: 0151 495 2255

West London (Showroom & Sales)
Pield Heath Rd, Hillingdon, W. London, UB8 3NP
Tel: 01895 271 300  Fax: 01895 271 020

Email: enquiries@silvatimber.co.uk

www.silvatimber.co.uk