

A photograph of a forest with several large Western Red Cedar trees. The trees have thick, textured bark and dense green foliage. The ground is covered in a light layer of snow. A dark, semi-transparent rectangular box is overlaid on the center of the image, containing the title and company information.

WESTERN RED CEDAR

2022 Catalogue



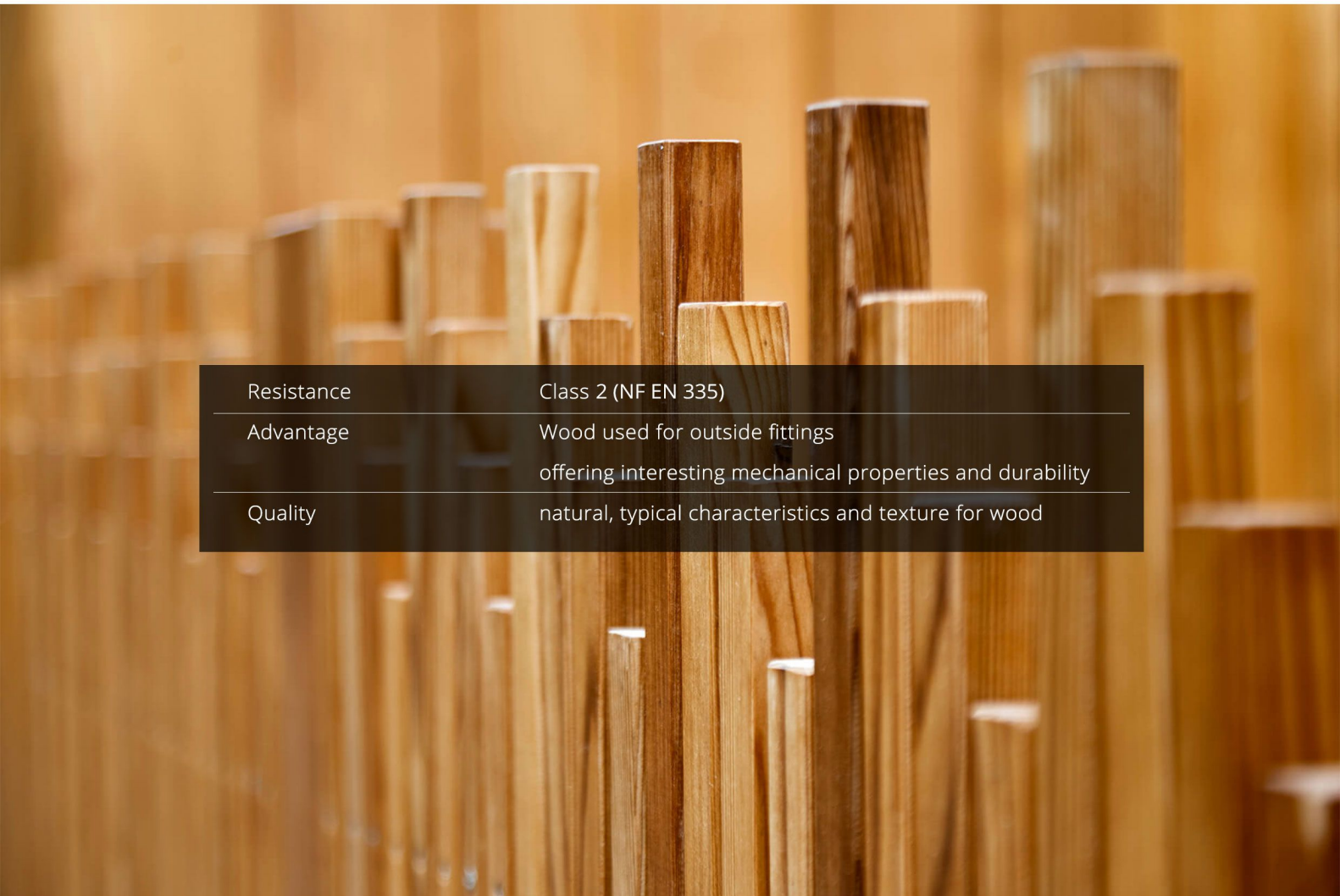
assiourasbros
advanced wood technology

Natural characteristics of wood

Western red cedar wood is a soft red/brown color with a tight straight grain, and very few knots. This wood is known for its resistance to decay, and its very pleasant aroma and appearance.

For these reasons, western red cedar wood is often used for outdoor purposes, since it is resistant to rotting or water damage. This wood is used for posts, decking, siding, framing, shingles, and for the manufacturing of sailboats and kayaks as well.

Because of its lovely scent, western red cedar wood is often used as closet and cupboard lining as well. Both for the smell, and because it is a naturally insect repelling scent, helping keep moths at bay.



Resistance	Class 2 (NF EN 335)
Advantage	Wood used for outside fittings offering interesting mechanical properties and durability
Quality	natural, typical characteristics and texture for wood

Like all woods, Western Red Cedar is hygroscopic and will absorb or discharge moisture to attain equilibrium with the surrounding atmosphere. However, it has a very low shrinkage factor and is superior to all other coniferous woods in its resistance to warping, twisting and checking.

Properly finished and maintained, cedar will deliver decades of trouble-free service. If exposed for prolonged periods to conditions where decay could be a factor, such as where the wood is in contact with the ground, cedar should be treated with suitable wood preservatives.

Aesthetically, there really is no substitute for the natural beauty of Real Cedar. Imbued with decidedly crisp, yet superbly rich, tonal properties, Real Cedar can create sublime outdoor sanctuaries, embolden traditional home decor, provoke cutting-edge architecture and inspire innovative interiors.

Western red cedar is pitch and resin-free. Which means it's ideal for accepting and holding a wide range of beautiful finishes including elegant dark stains, shabby chic bleaches, traditional solid colours and naturally beautiful semi-transparent.

Independent studies prove that when it comes to environmental performance, natural wood is superior to synthetic products in every way. While other building materials generate greenhouse gasses, western red cedar actually removes greenhouse gasses from the atmosphere. And unlike brick, cement and composites, Real Cedar is renewable and biodegradable.



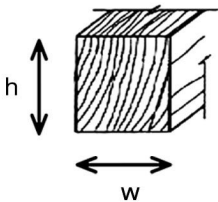
- ✓ Resistance class 2 (NF EN 335)
- ✓ Heartwood with high resistance against wood-destroying fungi/insects
- ✓ High strength-value/high density (average dried weight 330-430kg/m³)
- ✓ offering interesting mechanical properties and durability
- ✓ FSC - certified

Solid Red Western Cedar Timber



Dimensions

h	w	h	w
20 x 120mm		90 x 290mm	
20 x 140mm		50 x 150mm	
40 x 80mm		45 x 45mm	
26 x 160mm			



Physical & mechanical properties

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

Mean	Mean
Specific gravity *: 0,38	Crushing strength *: 33 MPa
Monnin hardness *: 1,1	strength *: 59 MPa
Coeff. of volumetric shrinkage: 0,29 %	Modulus of elasticity *: 8800 MPa
Total tangential shrinkage (TS): 5,5 %	
Total radial shrinkage (RS): 2,2 %	
TS/RS ratio: 2,5	
Fiber saturation point: 24 %	
Stability: moderately stable to stable	

Note: WESTERN RED CEDAR wood tends to split. (: at 12% moisture content, with 1 MPa = 1 N/mm²)*

Natural Durability and treatability

Fungi and termite resistance refers to end-uses under temperate climate. Except for special comments on sapwood, natural durability is based on mature heartwood. Sapwood must always be considered as non-durable against wood degrading agents.
E.N. = Euro Norm

- Funghi (according to E.N. standards): class 2 - durable
- Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)
- Termites (according to E.N. standards): class S - susceptibleclass S - susceptible
- Treatability (according to E.N. standards): class 3-4 - poorly or not permeable
- Use class ensured by natural durability: class 3 - not in ground contact, outside
- Species covering the use class 5: No

Note: This species is listed in the European standard NF EN 350-2. Use class 3 is only for wood components without sapwood. Plantation woods, which are exploited younger, are less resistant to fungi (Class 3: moderately durable). According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.

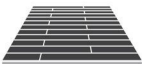
Requirement of a preservative treatment

- Against dry wood borer attacks: does not require any preservative treatment
- In case of risk of temporary humidification: does not require any preservative treatment
- In case of risk of permanent humidification: use not recommended

Applications



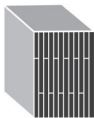
pergolas



deck



shading systems



façade

Laminated Western Red Cedar Timber



Dimensions

h \ w	80	100	120	140	160	180	200	240	280	300	320	360
50	•	•	•	•	•	•	•	•	•	•	•	•
60	•	•	•	•	•	•	•	•	•	•	•	•
70	•	•	•	•	•	•	•	•	•	•	•	•
80	•	•	•	•	•	•	•	•	•	•	•	•
100		•	•	•	•	•	•	•	•	•	•	•
120			•	•	•	•	•	•	•	•	•	•
140				•	•	•	•	•	•	•	•	•
160					•	•	•	•	•	•	•	•
180						•	•	•	•	•	•	•
200							•	•	•	•	•	•
240								•	•	•	•	•
280									•	•	•	•
300										•	•	•

maximum length: 7 m

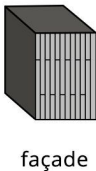
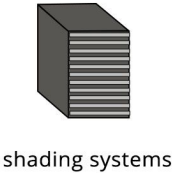
maximum length: 6 m

h

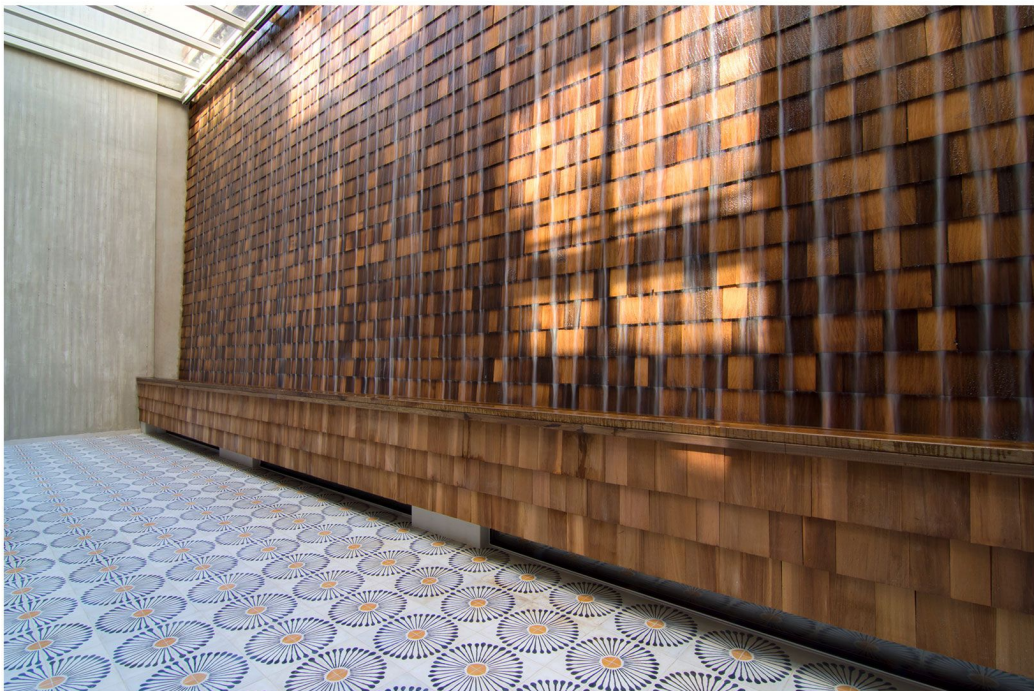
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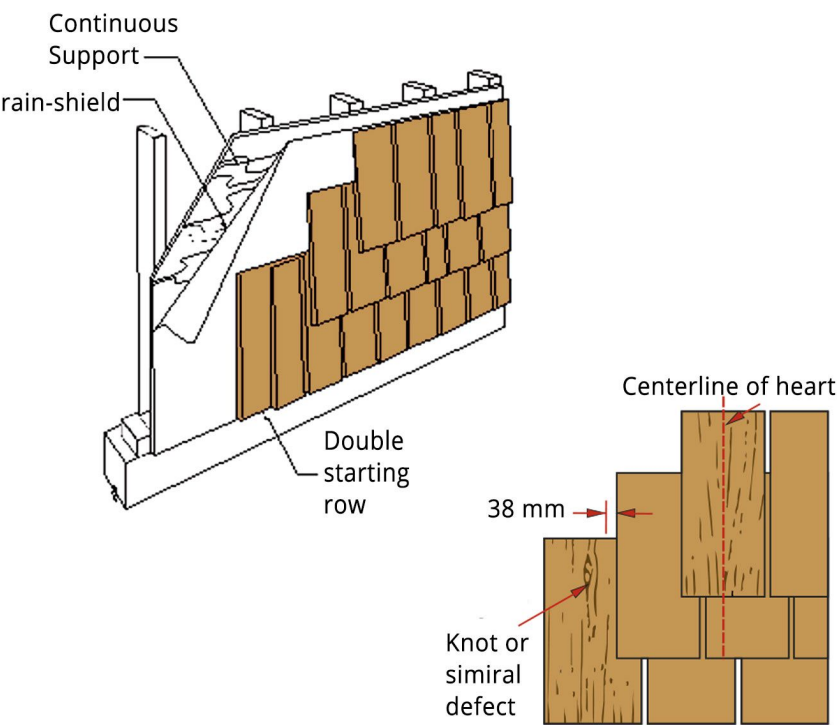
Applications



Shingles
of Western
Red Cedar



Shingles of Western Red Cedar						
	Length	Thikness	Rows per pack	Distnace Maximum	Covered area	Minimum slope
CLASS 1	400mm	10mm	22/22	130mm	2.3m2	33%
CLASS 2	450mm	11mm	20/20	140mm	2.3m2	33%
CLASS 3	600mm	13mm	15/15	190mm	2.3m2	33%



Related projects



Special construction with western red cedar shingles on Coco-Mat Athens



western red cedar Façade



Sliding shading systems with western red cedar



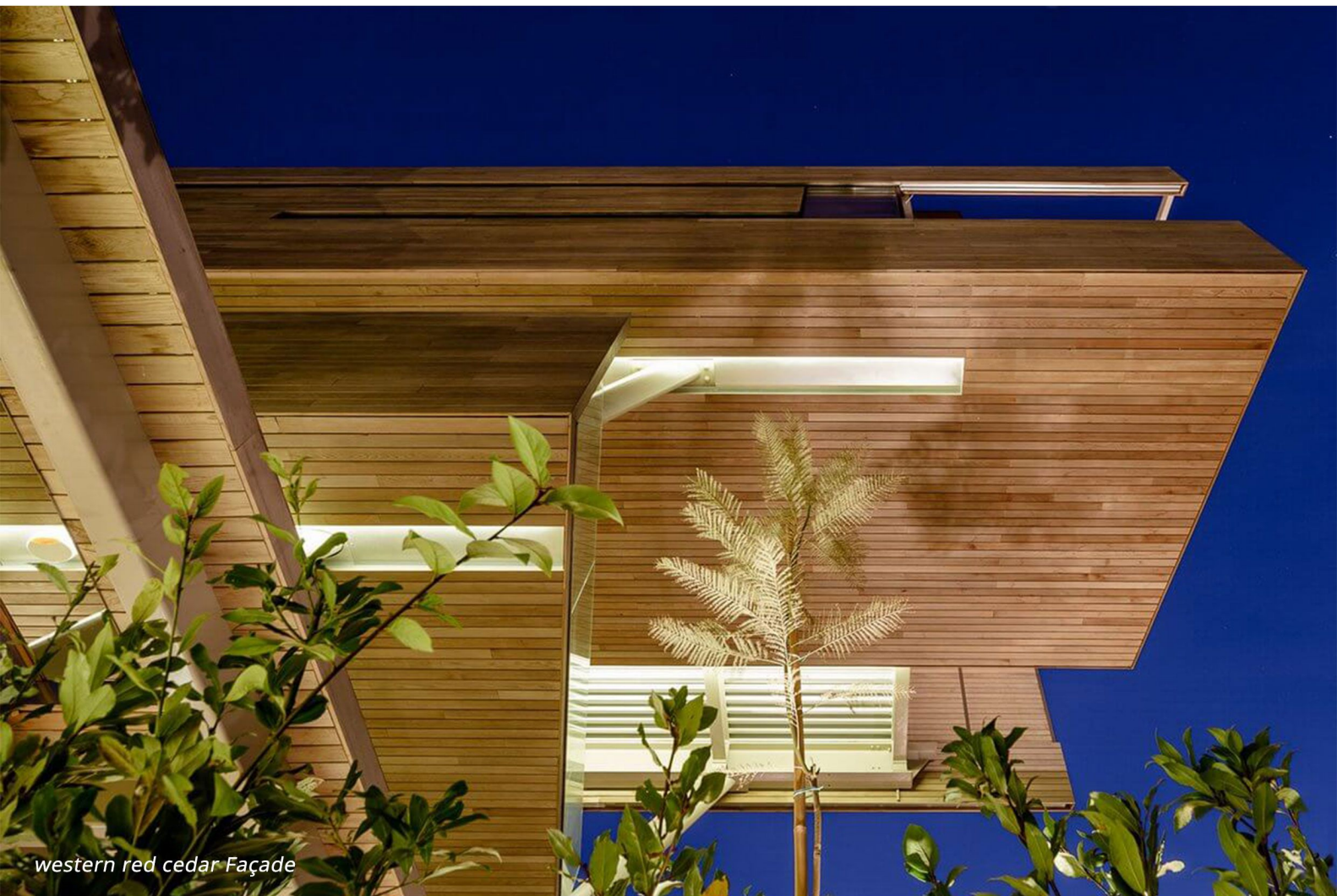
Pergola and cladding by western red cedar



western red cedar Façade - Coco-Mat BC



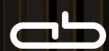
western red cedar Façade



western red cedar Façade



Shading blinds with western red cedar



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