

Part Five - Resawn Shake Packing

- Total inches of “on-grade” shakes per bundle must be greater than 268 inches if packing 5 bundles per square.
- No excessively wide openings in packed rows.
- Joints or spaces between shakes in adjoining rows should be broken by placing a shake completely over them.
- No overlapping of shakes in the same course or row.
- Shakes are to be packed to the outside edges of the packing frame.
- Each bundle must be identified with a Certi-Split or mill grade label according to the proper grade of the shakes.
- The label must be placed under the bandstick or band on the width of the bundle.
- Each pallet must have a packer identification mark. (Pallet Tag)

The CSSB-97 Grading Rules are the grading rules accepted by the International Code Council (“ICC”) which publishes the IBC and IRC building codes. These codes are applicable to all cedar shake and shingle products sold in the United States.

Cedar shake and shingle products sold in Canada must meet the CSA 0118.1 Standard.

The Cedar Shake & Shingle Bureau requires that its members’ products meet the applicable standards. Do yours?

Contact the Cedar Shake & Shingle Bureau for application instructions.

Cedar Shake & Shingle Bureau

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GUIDE TO CSSB-97 GRADING RULES

CONFORMS WITH UBC 15-3, CSA 0118.1-97, CSSB-97

CERTI-SPLIT™ - Resawn cedar shakes

RESAWN SHAKE CHART		24 INCH	18 INCH	
WOOD:	Clear	All	All	
	Sapwood	1/8"	1/8"	
	Flat Grain No. 1	20%	20%	
	Premium	None	None	
	Standard	Yes	Yes	
	Checks/Feathers	down to 22"	down to 17"	
LENGTHS:	Maximum	27"	20"	
	Minimum	22"	17"	
WIDTH:	No. 1 Maximum	None	None	
	Standard Maximum	8	8	
	Minimum	4"	4"	
	Off Parallel	1"	1"	
THICKNESS:	3/4" Heavies-	Minimum	3/4"	3/4"
		Exposure Line Minimum	10"	7-1/2"
	1/2" Mediums-	Minimum	3/8"	3/8"
		Exposure Line	10"	7-1/2"
		Minimum	1/4"	1/4"
	3/8"	Minimum	3/8"	3/8"
		Exposure Line	7"	5"
		Minimum	1/4"	1/4"
	COVERAGE 24" shake, 9/9 pack, 18" frame, 5 bundles / sq. - 268 inches			
	100 sq. ft.	18" shake, 12/12 pack, 18" frame, 5 bundles / sq. - 357 inches		
75 sq. ft.	18" shake 9/9 pack 18" frame, (7 bundles / sq.) - 268 inches			

Part one - Resawn Shake Description

Handsplit - and - Resawn shakes have split faces and sawn backs and are produced by running a split wood blank, made on a cuber (splitter), diagonally through a bandsaw.

Part Two - Resawn Shake Definitions

- Butt - the thick end of the shake.
- Check - any split or separation of the wood. For 24 inch shakes, checks are allowed down to 22 inches. For 18 inch shakes, checks are allowed down to 17 inches. A check is not a defect if the separations are wider than the minimum width allowed. Sun/Butt checks are permitted, in from the butt, up to 3/8 inch.
- Course - the horizontal layer or row of shakes in a bundle.
- Crimps - the collapse of the wood cells giving a caved-in appearance.
- Decay - rot, decomposing wood.
- Exposure - the portion of the shake that when on a roof is exposed to the weather.
- Exposure line - the line created by the next row of shakes when properly laid on a roof. 10 inches from the butt for 24 inch shakes and 7-1/2 inches from the butt for 18 inch shakes.
- Feather Tip, Shim - An uneven feather like tip where the saw has come out the side of the shake blank before cutting all the way to the end. For 24 inch shakes feather tips are allowed down to 22 inches and for 18 inch shakes feather tips are allowed down to 17 inches.
- Grain - is the direction of the fibers in the wood.
 - Edge Grain - the wood is split or sawn at right angles to the annual rings or growth rings.
 - Flat Grain - the wood is cut with the growth rings - up to 20% Flat grain shakes may be included in any bundle except for Premium Grade bundles must be all edge grain.
- Knot - a piece of a branch or limb embedded in the shake. Knots are not allowed.
- Pack - refers to the number of courses or rows of shakes packed at each end of a bundle. Normally 9/9 pack for 5 bundle per square shakes packed in a 18 inch frame.
- Sapwood - the light colored wood between the bark and the heartwood. 1/8 inch of sapwood is permitted on one edge of the shake.
- Square of Shakes - usually five bundles of shakes providing enough shakes to cover 100 square feet on a roof.
- Tip - the thin end of the shake.
- Warp/Curvature - is measured with the shake held down on a flat plane at a point 4 inches from the tip.
- Worm/Toledo hole - a hole or passage burrowed in the shake by a worm or insect. None are allowed.

Part Three - Resawn Shake Quality Standard

No. 1 Grade and Premium Grade

- 100% clear - No knots, wormholes, decay, or crimps permitted.

- Graded from the split face.
- No bark.
- 1/8 inch sapwood permitted on one edge. Additional sapwood shall be permitted above the exposure line providing the sapwood is contained within a diagonally drawn line from the outside edge at the butt to a point 1 inch inward from the tip edge.
- 1 inch curved back allowed.
- Excessive grain sweep not permitted.
- No.1 Grade - 20% flat-grain allowed per bundle.
- PREMIUM GRADE - 100% edge grain - No flat grain permitted.
- STANDARD GRADE - Flat grain permitted.

Part Four - Resawn Shake Size

Lengths: 18 inch and 24 inch Resawn shakes.

- 18 inch can be 17 inches to 20 inches.
- 24 inch can be 22 inches to 27 inches.

Thickness

- Measured at the butt in the area 1/2 inch in from each edge of the shake.
- 1/2 inch shakes shall be a minimum of 1/2 inch thick at the butt.
- 1/2 inch shakes shall be a minimum of 1/4 inch thick (one half the butt thickness) at the exposure line (10 inches from the butt for 24 inch shakes and 7-1/2 inches from the butt for 18 inch shakes).
- 3/4 inch shakes shall be a minimum of 3/4 inch thick at the butt.
- 3/4 inch shakes shall be a minimum of 3/8 inch thick (one half the butt thickness) at the exposure line, (10 inches from the butt on 24 inch shakes and 7 1/2 inches from the butt for 18 inch shakes.
- 3/8 inch shakes shall be a minimum of 3/8 inch thick at the butt.
- 3/8 inch shakes shall be a minimum of 1/4 inch thick at the exposure line.
- If the corrugation exceeds 1/2 inch from the peak to the valley, a minus tolerance of 1/8 inch less than the specified thickness is allowed at the bottom of the valley.
- A 1/16 inch minus tolerance is thickness is allowed in the middle of the shake.

Width

- Minimum width not less than 4 inches.
- No.1 Grade - no maximum width.
- STANDARD GRADE - Maximum width is 8 inches.
- Edges of shakes shall be parallel within 1 inch.