

CERTI-SAWN - TAPERSAWN CEDAR SHAKES

- STANDARD GRADE - Thickness cannot be less than 3/4 inch at the butt and not less than 3/8 inch at the exposure line.
- * No. 3 Grade Tapersawn shake (Non UBC Conforming)
- * Thickness cannot be less than 1/2 inch.

Width

No. 1 Grade and Premium Grade Tapersawn shakes

- The minimum width shall be 4 inches with a minus tolerance down to 3-1/2 inches in up to 5% of the bundle.
- Edges must be parallel. The width measured at the tip must not differ from the width measured at the butt by more than 5/8 inch.
- STANDARD GRADE - The maximum width for Standard Grade Tapersawn shakes is 8 inches

No. 2 Grade and (No. 3 Grade) Tapersawn shakes.

- The minimum width shall be 4 inches with a minus tolerance down to 3 inches in up to 10% of the bundle.

Part Five- Tapersawn Shake Packing

- Total inches of “on-grade” shakes per bundle must be greater than 268 inches if packing 5 bundles.
- Normal pack for 24-inch Tapersawn shakes is 9/9 pack in an 18-inch frame - for 18-inch Tapersawn, 12/12 pack in an 18-inch frame.
- No excessive 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-Sawn 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.

GUIDE TO CSSB-97 GRADING RULES

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

CERTI-SAWN™ - Tapersawn cedar shakes

TAPERSAWN SHAKE CHART		24 INCH			18 INCH		
		No. 1	No. 2	No. 3	No. 1	No. 2	No. 3
WOOD	Clear area	All	12"		All	9"	
	Sapwood	1/8"	1"	Yes	1/8"	1"	Yes
	Flat Grain-No. 1	20%	Yes	Yes	20%	Yes	Yes
	PREMIUM	No	-	-	No	-	-
	STANDARD	Yes			Yes		
	Checks & Feathers	down to 22"	down to 22"	down to 22"	down to 17"		
	Defects - Size	No	1-1/2"		No	1-1/2"	
Total	No	1/2" width		No	1/2" width		
LENGTHS:	Maximum	27"	none	none	20"	none	none
	Minimum	22"	22"	22"	17"	16"	15"
	Off Parallel	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
WIDTH:	No. 1 Maximum	none	none	none	none	none	none
	Standard Maximum	8"	none	none	8"	none	none
	Minimum	4"	4"	4"	4"	4"	4"
	Under Size %	5%	10%	None	5%	10%	None
	Minimum	3-1/2"	3"	3"	3-1/2"	3"	3"
	Off Parallel	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
THICKNESS:	3/4" Minimum	3/4"	3/4"	1/2"	3/4"	3/4"	1/2"
	Under Size %	10%	10%	No	10%	10%	No
	Minimum	1/16"	1/16"	No	1/16"	1/16"	No
	5/8" Minimum	5/8"	5/8"	1/2"	5/8"	5/8"	1/2"
	Under Size %	10%	10%	No	10%	10%	No
Minimum	1/16"	1/16"	No	1/16"	1/16"	No	
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						

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Part One - Tapersawn Shake Description

Tapersawn shakes are tapered pieces with faces on both sides and are produced by sawing blocks in a shingle machine and then trimming the edges.

Part Two - Tapersawn 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. Sun/Butt checks are permitted, in from the butt, up to 3/8 inch.
- Course - the horizontal layers or rows 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.
- Cross Grain - the grain runs from the front of the shake to the back - within 3 inches of the length of the shake, in the area 6 inches up from the butt.
- Diagonal Grain - the grain does not run parallel to the edges of the shake. It is a defect if it slants off more than 2 inches side ways in 12 inches of length.
- 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.
- Torn Grain - the fuzzy or whiskered appearance in the face of the shake usually caused by a dull saw.
- Knot - a piece of a branch or limb embedded in the shake. Knots are not allowed in #1 shakes.
- 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 an 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.
- Worm/Toledo hole - a hole or passage burrowed in the shake by a worm or insect. None are allowed.

Part Three - Tapersawn Shakes Quality Standards

Premium Grade and No. 1 Grade Tapersawn

- 100% Clear Wood - No knots, wormholes, decay or crimp is permitted.
- Graded from the best face.
- All heartwood - No bark.
- 1/8 Inch of 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 5/8 inch inward from the tip edge.
- Excessive grain sweep is not permitted. More than 2 inches of sweep in 12 inches of shake length.
- 20% Flat-Grain allowed per bundle.
- PREMIUM GRADE - is all 100% edge grain - No flat-grain permitted.

UBC 15-4 does not have provisions for this grade

- No.1 Grade -
- STANDARD GRADE -

No. 2 Grade Tapersawn

- 18-inch shakes must be made of good material and must have 9 inches up from the butt of clear heartwood with no bark.
- 24-inch shakes must be made of good material and must have 12 inches up from the butt of clear heartwood with no bark.
- Defects such as knots, wormholes, decay or crimp are permitted above the 9-inch clear line on 18-inch shakes or above the 12-inch clear line on 24-inch shakes.
- Defects may be up to 1-1/2 inches in diameter.
- Total defects must not exceed 1/2 the width of the shake.
- Tapersawn shakes are graded from the best face.
- Sapwood is allowed, in the first 10 inches up from the butt only 1 inch is allowed on one edge.
- Cross grain is not permitted in the first 9 inches up from the butt.

* *No. 3 Grade Tapersawn - Mill Grade*

* *This grade is not allowed by UBC and must have a "non conforming" label.*

* *18-inch shakes must have no holes or bark in the bottom half of the shake, 9 inches up from the butt.*

* *24-inch shakes must have no holes or bark in the bottom half of the shake, 12 inches up from the butt.*

* *Worm and Toledo holes less than 1/2 inch in diameter are permitted through out.*

* *Sapwood is allowed.*

Part Four - Tapersawn Shake Size

Lengths: 18 inch and 24 inch Tapersawn shakes

No. 1, Premium Grade and Standard Grade Tapersawn shakes

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

No. 2 Grade Tapersawn shakes

- 18-inch shakes can be 16 inches in length.
- 24-inch shakes can be 22 inches to 27 inches.

* *No. 3 Grade (Non UBC Conforming)*

* *18-inch shakes can be 15 inches in length.*

* *24-inch shakes can be 20 inches.*

Thickness

No. 1 and No. 2 Grade Tapersawn shakes

- 5/8-inch shakes shall be a minimum of 5/8 inches thick at the butt.
- 3/4-inch shakes shall be a minimum of 3/4 inch thick at the butt.
- 10% of the shakes in any bundle may be 1/16 of an inch undersize.
- Butt size must be uniform in thickness, no thick and thin.