

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/Toredo 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.

UBC 15-4 does not have provisions for this grade

- PREMIUM GRADE - is all 100% edge grain - No flat-grain permitted.
- 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 Toredo 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.

CERTI-SAWN - TAPERSAWN CEDAR SHAKES

- 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.
- 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)

CEDAR SHAKE & SHINGLE BUREAU

Canadian Address
#2 – 7101 Horne Street
Mission, BC V2V 7A2

US Mailing Address
PO Box 1178
Sumas, WA 98295

Phone: (604) 820-7700
Fax: (604) 820-0266
www.cedarbureau.org

Contact the Cedar Shake and Shingle Bureau for application instruction.

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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	8"	none	none	8"	none	none
	Maximum						
	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						

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 & Shingle products sold in the United States. Cedar Shake & 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?