

CERTIGRADE 18 INCH PERFECTIONS

- The minimum width shall be 4 inches with a minus tolerance down to 3 ½ inches in up to 30% of the bundle.
- Edges must be parallel up to 3/8 of an inch.

Thickness:

- The thickness of 5 butts must be 2-1/4 inches or greater.
- Butt thickness must be uniform - not thick and thin.

Part Five - 18 Inch Perfection Shingle Packing

- Total inches of “on grade” shingles per bundle must be greater than 635 inches if packing 4 bundles per square.
- Normal pack for 18 inch Perfection shingles is either a) 20/20 pack in an 18 inch frame or 18/18 pack in a 20 inch frame.
- No excessively wide openings in any packed course or row.
- Joints or spaces between shingles in adjoining rows should be broken by placing a shingle completely over the space.
- No overlapping shingles in the same course or row, all shingles must lie flat.
- Shingles are to be packed to the outside edges of the packing frame.
- Each bundle must be identified with a Certigrade or mill grade label according to the proper grade of the shingles.
- The label must be placed under the bandstick or band on the width of each 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 and Shingle Bureau for application instructions.

GUIDE TO CSSB-97 GRADING RULES

CONFORM WITH UBC 15-4, CSA 0118.1-97, CSSB-97

CERTIGRADE® - 18 Inch Perfection Shingles

18" PERFECTION SHINGLE CHART		No. 1-Blue	No. 2-Red	No. 3-Black
WOOD:	Clear area	All	11"	6"
	Sapwood	None	1"	Yes
	Flat Grain	None	Yes	Yes
	Checks	None	2" (to 16")	2" (to 16")
	Defects Size	None	3"	3"
	Total	None	1/2" width	2/3" width
LENGTH	Maximum	None	None	None
	Minimum	17"	16"	16"
	Exposure Line	5-1/2"	4-1/2"	4"
WIDTH	Maximum	None	None	None
	Minimum	4"	4"	4"
	Under Size %	10%	20%	30%
		3"	3"	3"
	Minimum Off Parallel	1/4"	3/8"	3/8"
Thickness Minimum		5 butts equal 2-1/4 inches		
Coverage (@ 4 bundles/sq.)		635 inches “on grade” per bundle		
Pack 18 inch Frame		20/20 pack		
Pack 20 inch Frame		18/18 pack		

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Part One - Shingle Description

Shingles have smooth sawn backs and fronts. Shingles are produced by sawing blanks on a shingle machine, tilting the block each cut to produce tapered pieces and then trimming the edges.

Part Two - Shingle Definitions

- Butt - the thick end of the shingle.
- Check - any split or separation of the wood. Sun/butt checks are permitted, in from the butt, up to 3/8 inch.
- Course - a layer or row of shingles in a bundle.
- Crimps - the collapse of the wood cells giving the shingle a caved - in appearance.
- Decay - rot, decomposing wood.
- Exposure - the portion of the shingle that when on the roof is exposed to the weather.
- Exposure line - the line created by the next row of shingles when properly laid on a roof. For No. 1 shingles the exposure line is at 5-1/2 inches, for No. 2 shingles the exposure line is at 4-1/2 inches and for No. 3 shingles the exposure line is at 4 inches up from the butt.
- Feather Tips - a rough tip caused when the saw comes out the side forming a flimsy, feather like tip.
- Grain - is the directions of the fibers in wood.
 - Cross Grain - the grain runs from the front of the shingle to the back within 3 inches of the length of the shingle in the area 6 inches up from the butt.
 - Diagonal Grain - the grain does not run parallel to the edge of the shingles. 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
 - Torn Grain - the fuzzy or whiskered appearance in the face of the shingle usually caused by a dull saw.
- Knot - a piece of a branch or limb embedded in the shingle. Knots are not allowed in No. 1 shingles
- Pack - refers to the number of courses of shingles at each end of a bundle. Normally 20/20 pack for 4 bundles per square in a 18 inch wide packing frame.
- Tip - the thin end of a shingle.
- Worm/Toredo hole - a hole or passage burrowed in the shingle by a worm or insect.

Part Three - Shingle Quality Standards

No. 1 Grade 18 inch Perfection Shingles

- 100% Clearwood - No knots, worm holes, decay or crimp permitted.
- All 100% Edge Grain - No Flat grain, no Cross grain and no Diagonal grain.
- Tip checks are permitted up to 1 inch long, down to 17 inches.
- Graded from the best face.
- Waves and torn fibers are permitted on the back face.

No. 2 Grade 18 inch Perfection Shingles

- 11 inches clear up from the butt.
- Flat grain and Diagonal grain is permitted.
- Tip checks are permitted up to 2 inches long, down to 16 inches.
- 1 inch of sapwood is allowed on one edge of the shingle in the first 10 inches up from the butt.
- Defects may be up to 3 inches in diameter.
- Total defects must not exceed 1/2 the width of the shingle.

No. 3 Grade 18 inch Perfection Shingles

- 6 inches clear up from the butt.
- Grain deviations are not defects.
- Tip checks are permitted up to 2 inches long, down to 16 inches.
- Sapwood is permitted.
- Defects may be up to 3 inches in diameter.
- Total defects must not exceed 2/3 the width of the shingle.

Part Four - Perfection Shingle Size

Lengths:

No. 1 Grade 18 inch Perfection shingles.

- 18 inch shingles can be a minimum of 17 inches.

No. 2 Grade 18 inch Perfection shingles

- 18 inch shingles can be a minimum of 16 inches.

No. 3 Grade 18 inch Perfection shingles

- 18 inch shingles can be a minimum of 16 inches.

Widths:

No. 1 Grade 18 inch Perfection shingles

- The minimum width shall be 4 inches with a minus tolerance down to 3 inches in up to 10% of the bundle.
- Edges must be parallel up to 1/4 of an inch.

No. 2 Grade 18 inch Perfection shingles

- The minimum width shall be 4 inches with a minus tolerance down to 3 inches in up to 20% of the bundle.
- Edges must be parallel up to 3/8 of an inch.

No. 3 Grade 18 inch Perfection shingles