



WESTERN RED CEDAR

WESTERN RED CEDAR FINISH, PANELLING, CEILING & DROP SIDING, K.D. 2" & Thinner, 2" & Wider

200. Western Red Cedar Finish is customarily shipped kiln dried and surfaced four sides. Grade descriptions for Finish and Panelling are based on a piece 8" wide and 12' long. Grade descriptions for Ceiling and Drop Siding are based on a piece 4" wide and 12' long. The number of characteristics in larger or smaller pieces may vary in proportion to the size of the piece. Pieces of Finish 5" and narrower are graded from the best face and both edges. Pieces 6" and wider are graded from the best face and one edge.

Pieces of Panelling, Drop Siding and Ceiling run to pattern may be partially surfaced or hollow or scratched back.

"**Saw Texture**" is available in all grades of Western Red Cedar and, as the name implies, is a rough finish put on the face of a piece to give it a textured finish. Material supplied with this finish shall in all ways adhere to the grades, sizes and patterns as specified, except that it shall be graded from the textured face.

There are three grades of Western Red Cedar Finish, Panelling and Ceiling: "**CLEAR HEART**," "**A**" and "**B**."

If F.G. or V.G. only is desired, it must be so specified. Otherwise mixed grain (M.G.) may be shipped at shipper's option.

In occasional pieces of "A and Better" the tongue or lap in panelling and siding may be $\frac{1}{16}$ " narrower and Ceiling with a tongue $\frac{1}{8}$ " or more in width is permissible.

200a. "CLEAR HEART" - FINISH, PANELLING, CEILING & DROP SIDING

This is the highest grade of Finish, Panelling, Ceiling and Drop Siding produced. The exposed face shall be all heartwood with many pieces being absolutely clear. Some pieces may exhibit a few minor characteristics which do not detract from their high appearance and quality.

Characteristics and limiting provisions are:

- Cup - very light.
- Skips - very light on back.
- Torn or
- Raised Grain - very light.
- Warp - very light.



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200b. "A" - FINISH, PANELLING, CEILING & DROP SIDING



This grade is only slightly less restrictive than "Clear Heart."

The "A" grade is ideally suited to applications where finishing requirements are less exacting.

Characteristics and limiting provisions are:

- Checks - small.
- Cup - light.
- Sapwood - not limited
- Skips - occasional light on edges and back.
- Torn or Raised Grain - light.
- Warp - light.
- Knots - 2 small, sound, tight or their equivalent.

200c. "B" - FINISH, PANELLING, CEILING & DROP SIDING



Although the "B" grade permits larger and more numerous characteristics than "CLEAR HEART" and "A" grades, it is highly serviceable and often yields short lengths of fine appearance from longer stock. Many pieces have a fine appearance on one side, the reverse side showing larger or more numerous characteristics.

Characteristics and limiting provisions are:

- Checks - not limited.
- Cup - medium.
- Pin Holes - limited.
- Sapwood - not limited
- Skips - hit and miss on either face and grooved edge in patterned stock; approx. $\frac{1}{8}$ " scant on edge.
- Splits - short.
- Tongue or Lap - narrow, must be at least $\frac{1}{16}$ " in width.
- Torn or Raised Grain - not limited.
- Wane - $\frac{1}{8}$ width for $\frac{1}{4}$ the length & $\frac{1}{4}$ the thickness, or its equivalent in an occasional piece.
- Warp - medium.
- Knots - 4 approximately 1" or their equivalent.
- Cutout - a 3" cutout - 3' or more from either end of pieces 12' & longer is permissible in 10% of the shipment.



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200d. GLUED-UP FINISH, PANELLING, CEILING & DROP SIDING

End-glued, edge-glued or a combination of end and edge-glued Finish, Panelling, Ceiling and Drop Siding is intended to be interchangeable in use value with one-piece stock of the comparable grade. The characteristics of the grade are the same as for one-piece stock. Additional requirements for which the producer is responsible are:

- a) Exterior glue line equal to heat cured 50-50 melamine urea glue.
- b) Adequate glue line strength for usual handling and fastening.
- c) Appearance shall be suitable for intended finishing of each grade.

BEVEL SIDING, K.D.

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201. Western Red Cedar Bevel Siding is produced by resawing kiln dried surfaced lumber on a bevel to produce two pieces thicker on one edge than the other and is most commonly used as exterior siding, giving a horizontal shadow line effect. Except for siding intended for rough side use, bevel siding is graded on the surfaced side with characteristics and limiting provisions enumerated in the grades applying to the exposed width. Grade descriptions are based on a piece 6" wide by 12' long. Occasional tolerance in thickness is permitted, approximately $\frac{1}{32}$ " over or under in any one piece. The thick edge permits minor characteristics that do not detract from the appearance of the piece in use.

"**Saw Texture**" is available in all grades of Western Red Cedar Bevel Siding and as the name implies is a rough finish put on the face of a piece to give it a textured finish. Material supplied with this finish shall in all ways adhere to the grades, sizes and patterns as specified, except that it shall be graded from the textured face.

There are five grades of Western Red Cedar Bevel Siding: "**CLEAR V.G. HEART**," "**A**," "**B**," "**RUSTIC**" and "**C**."

Special items, namely $\frac{1}{2}$ " x 4" and $\frac{1}{2}$ " x 5" sizes, $\frac{1}{2}$ " x 6" square edged and $\frac{3}{4}$ " x 6" rabbeted siding, are usually graded "CLEAR V.G. HEART" and "A" combined for the first grade.

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Normal head lap for regular Bevel Siding is 1". This portion of the thin edge may contain characteristics that will be covered when laid and will provide a suitable backing.

In rabbeted siding, depth of rabbet conforms to thickness of thin edge, width of rabbet is 1/2".

Finished Sizes:

Nominal Sizes Board Measure		Dressed Sizes		
Thickness	Width	Thick Edge	Thin Edge	Width
1/2"	4"	15/32"	3/16"	3 1/2"
1/2"	5"	15/32"	3/16"	4 1/2"
1/2"	6"	15/32"	3/16"	5 1/2"
1/2"	8"	15/32"	3/16"	7 1/4"
5/8"	8"	9/16"	3/16"	7 1/4"
5/8"	10"	9/16"	3/16"	9 1/4"
3/4"	6"	3/4"	3/16"	5 1/2"
3/4"	8"	3/4"	3/16"	7 1/4"
3/4"	10"	3/4"	3/16"	9 1/4"
3/4"	12"	3/4"	3/16"	11 1/4"

Lengths are 3' and longer in multiples of 1'.

Nested Bundling (N.B.):

Bundles are 6' to 16' or longer. Bundles 10' and longer contain specified layers of 3' to 7' lengths.

Full Length Bundling (F.L.B.):

All pieces in the bundle correspond to length of the bundle. The length assortment is normally 6' to 16' or longer but may include a percentage of 3' to 5' bundles, as specified by the shipper.

Shorts:

"CLEAR" and **"A"** Grade -

- 6" & narrower, not more than 20% of the footage may be 6' & 7' bundles.

- 8" & wider, not more than 15% of the footage may be 6' & 7' bundles.

"B" Grade & **Rustic** -

- Not more than 20% of the footage may be 6' & 7' bundles.

"C" Grade -

- No percentages specified.

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Bundling Schedule:

	F.L.B. & N.B. Layers Per Bundle	N.B. Only Layers Nested in 10' & Longer
$\frac{3}{4}$ " x 6" to 12"	6	2
$\frac{1}{2}$ " x 5" to 8"	10	3
$\frac{5}{8}$ " x 8" & 10"	10	3
$\frac{1}{2}$ " x 4"	12	4

201a. "CLEAR V.G. HEART" - BEVEL SIDING

The exposed width is all heartwood and free from imperfections and presents a vertical grain appearance for $\frac{3}{4}$ the width from the thick edge. The thick edge may contain light torn or raised grain.

201b. "A" - BEVEL SIDING

"A" - Bevel Siding may be furnished in mixed grain.

Characteristics and limiting provisions are:

Skips - very light on thick edge.

Torn or

Raised Grain - very light on face, light on thick edge.

Knots - 1 small, sound, tight or

2 pin, sound, tight in occasional piece.

201c. "B" - BEVEL SIDING

"B" - Bevel Siding may be furnished in mixed grain.

Characteristics and limiting provisions are:

Pin Holes - well scattered in occasional piece.

Skips - very light, light on thick edge in occasional piece.

Torn or

Raised Grain - light, medium on thick edge in occasional piece.

Knots - 4 small sound, tight or equivalent smaller in occasional piece.

Cutouts - cutouts are permitted which can be removed by cutting out not more than 5% of the length of the piece, not exceeding one cutout in pieces 6' to 9' and two cutouts in pieces 10' & longer. The minimum length of the piece of each segment after cutting must not be less than 18".



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201d. "RUSTIC" - BEVEL SIDING

Pieces are graded from the resawn side. Thick edge may be rough or surfaced. The grade may include pieces too thin to dress to standard size, but not more than $\frac{1}{16}$ " scant thickness. Some pieces may contain:


- Holes - pin - well scattered.
Knots - 4 - sound, tight, small.

Lengths are random, with percentage as specified by the shipper.


201e. "C" - BEVEL SIDING

Although this grade admits larger or more numerous characteristics than "B" grade, it often yields short lengths of fine quality. This grade may include stock too thin to dress to standard sizes. Lengths are random with percentages as specified by the shipper.

201f. FACTORY PRIMED BEVEL SIDING



Factory primed products shall be identified with a stamp or label by the producer.



201g. GLUED-UP BEVEL SIDING

End-glued, edge-glued or a combination of end and edge-glued Bevel Siding is intended to be interchangeable in use value with one-piece stock of a comparable grade. The characteristics of the grade are the same as for one-piece stock. Additional requirements for which the producer is responsible are:

- a) Exterior glue line equal to heat cured 50-50 melamine urea glue.
- b) Adequate glue line strength for usual handling and fastening.
- c) Appearance shall be suitable for intended finishing of each grade.



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INDUSTRIAL CLEARS
V.G., F.G. &/or M.G.
Rough or Surfaced
K.D., A.D., or Unseasoned
2" & Thinner, 3" & Wider

202. There are three grades of Western Red Cedar Industrial Clears: "**B and Better**," "**C**" and "**D**."


Western Red Cedar Industrial Clears, if ordered surfaced and unless otherwise specified, are finished to the sizes shown in Para. 820c. If ordered rough unseasoned, see Para. 747 for permitted variation in size. For seasoned thicknesses and widths refer to Para. 32.

Grade descriptions are based on a piece 8" wide and 12' long.

Pieces 5" & narrower are graded from best face and both edges; pieces 6" & wider from best face and one edge.

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202b. "B AND BETTER" CEDAR INDUSTRIAL CLEARS



Characteristics or their equivalent smaller which may appear on pieces in this grade and their limiting provisions are:

Checks - 4, small - no limit to number in rough stock.

Rate of Growth - 6 rings per inch.

Skips - on reverse face, occasional light.

Slope of Grain - not to exceed 1 in 8.


Splits - short, in 5% of the pieces.

Torn or

Raised Grain - very light.

Warp - very light in occasional pieces.

Knots - on reverse face, 3 sound tight, small.



202c. "C" CEDAR INDUSTRIAL CLEAR

Characteristics or their equivalent smaller which may appear on pieces in this grade and their limiting provisions are:

Checks - 4, small - no limit to number in rough stock.

Skips - occasional, very light on face; light on edges and reverse side.

Slope of Grain - 1 in 6.

Splits - short, in 5% of the pieces.





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Sap Stain	- medium.
Torn or	
Raised Grain	- light.
Warp	- light in occasional pieces.
Knots	- 3 sound tight, 1", or 5 equivalent smaller or 4 not firmly fixed or unsound 1/2 the size of sound and tight knots.
Cutout	- 10% of the pieces in a shipment may have a 3" cutout, 3' or more from either end in pieces 12' & longer.

202d. "D" CEDAR INDUSTRIAL CLEARS

A grade recommended and widely used where general utility purposes are of more importance than appearance. Characteristics on reverse face may be approximately 25% larger or more numerous.

Characteristics or their equivalent smaller which may appear on pieces in this grade and their limiting provisions are:



Checks	- not limited.
Knots	- 4 fixed, approximately 1" or 8 equivalent smaller.
Pin Holes	- limited.
Skips	- hit & miss; approximately 1/8" scant on edge.
Splits	- short.
Sap Stain	- not limited.
Torn or	
Raised Grain	- not limited.
Wane	- 1/8 the width, 1/4 the thickness, 1/4 the length or equivalent; 50% more on reverse face.
White Specks	- firm, 1/4 the width or equivalent.
Warp	- medium.
Cutout	- 20% of pieces in a shipment may have a 3" cutout, 3' or more from either end in pieces 12' & longer.



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INDUSTRIAL CLEARS
V.G., F.G., and/or M.G.,
Rough or Surfaced
K.D., A.D., or Unseasoned
2¹/₄" & Thicker, 3" & Wider

203. There are three grades of Industrial Clear: "**B and BETTER**," "**C**" and "**D**."

Industrial Clear, if ordered surfaced and unless otherwise specified, are finished to the sizes shown in Para. 820c. If ordered rough unseasoned, see Para. 747 for permitted variation in size. For seasoned thicknesses and widths refer to Para. 32.

Grade descriptions are based on a piece 8" wide and 12' long. The number of characteristics in larger or smaller pieces may vary in proportion to the size of the piece.

The grade is determined from the better face with the upper half of the edges considered as part of the face and lower half of the edges as part of the reverse face, the reverse face being approximately one grade lower.

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203b. "B AND BETTER" CEDAR INDUSTRIAL CLEARS



Characteristics or their equivalent smaller which may appear on pieces in this grade and their limiting provisions are:

Checks - 4 small - no limit to number in rough stock.

Rate of Growth - 6 rings per inch.

Slope of Grain - not to exceed 1 in 8.

Splits - short, in 5% of the pieces.

Torn or

Raised Grain - very light.

Warp - very light in occasional pieces.

Knots, on

reverse face - 3 sound tight 1" in 2¹/₄" thicknesses to 3, 2" in 12" thicknesses.

203c. "C" CEDAR INDUSTRIAL CLEARS

Characteristics or their equivalent smaller which may appear on pieces in this grade and their limiting provisions are:

Checks - 4 small - no limit to number in rough stock.

Skips - occasional, very light on face; light on edges and back.





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- Slope of Grain - 1 in 6.
Splits - short, in 5% of the pieces.
Sap Stain - medium.
Torn or Raised Grain - light.
Warp - light in occasional pieces.
Knots - 4 sound tight 1" or 5 equivalent smaller in 2¹/₄" thicknesses to 4, 2" or 5 equivalent smaller in 12" thicknesses; or 4 not firmly fixed or unsound 1/2 the size of sound and tight knots.
Cutout - 10% of pieces in a shipment may have a 3" cutout 3' or more from either end in pieces 12' & longer.

203d. "D" CEDAR INDUSTRIAL CLEAR

Reverse face must be of a reasonably clear type, allowing characteristics approximately 25% larger or more numerous. Characteristics or their equivalent smaller which may appear on pieces in this grade and their limiting provisions are:

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- Checks - not limited.
Pin Holes - limited.
Skips - hit and miss; approximately 1/8" scant on edge.
Splits - short.
Sap Stain - not limited.
Torn or Raised Grain - not limited.
Wane - 1/8 the width, 1/4 the thickness, 1/4 the length or equivalent; 50% more on reverse side.
Warp - medium.
White Specks - 1/4 the width or equivalent.
Knots - 5 fixed, 1" or 7 equivalent smaller in 2¹/₄" thicknesses to 5, 2" or 7 equivalent smaller in 12" thicknesses.
Cutout - 20% of pieces in a shipment may have a 3" cutout 3' or more from either end in pieces 12' & longer.



WESTERN RED CEDAR

TIGHT KNOTTED STOCK KNOTTY PANELLING & SIDINGS

(Rough or Dressed)

1" & Thicker, 4" & Wider

204. There are two grades of Tight Knotted Stock: "**SELECT KNOTTY**" and "**QUALITY KNOTTY**."

Knotty Panelling and Sidings (Dressed or Rough) stock may be shipped kiln dried, air dried or green and shall be well manufactured. Knots and other natural markings shall form the major characteristics of these grades. Panelling and Siding are one face grades. Unless otherwise specified, characteristics which do not interfere with the intended use are permitted on the reverse side.

"**Saw Texture**" is available in all grades of Western Red Cedar Knotty Panelling and Sidings and as the name implies is a rough finish put on the face of a piece to give it a textured finish. Material supplied with this finish shall in all ways adhere to the grades, sizes and patterns as specified, except that it shall be graded from the textured face.

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204a. "SELECT KNOTTY"

Characteristics and limiting provisions are:

- Checks - small surface.
- Skips - very light on back.
- Splits - short in 5% of pieces.
- Torn Grain - light.
- Warp - very light.
- Knots - sound tight; star checking and/or slight chipping permitted.
- Spike Knots - approximately 1/2 the width.

204b. "QUALITY KNOTTY"

Characteristics and limiting provisions are:

- Checks - medium surface, occasional through or equivalent shake.
- Pin Holes - well scattered.
- Skips - very light.
- Splits - short
- Torn or Raised Grain - medium.
- Warp - light.



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- Knots - sound tight; star checked &/or chipped; occasional 1" not firmly fixed or unsound
- Spike Knots - equivalent.
- Cut Out - in pieces 12' & longer, 20% of pieces in a shipment may contain a 3" cutout - 3' or more from either end

KNOTTY BEVEL SIDING

205. Knotty Bevel Siding may be K.D., A.D. or Green and is a type of siding especially selected for exterior exposed surfaces. Knots and other natural markings shall form the major characteristics of this product. Knotty Bevel Siding shall be well manufactured on face and edges, but permitting imperfections which will be covered when laid. Minimum head lap of 1". Pieces shall have a minimum thickness in any exposed part of $\frac{3}{16}$ ".

There are two grades of Knotty Bevel Siding: "**SELECT KNOTTY**" and "**QUALITY KNOTTY**."

"**Saw Texture**" is available in all grades of Western Red Cedar Bevel Siding and as the name implies is a rough finish put on the face of a piece to give it a textured finish. Material supplied with this finish shall in all ways adhere to the grades, sizes and patterns as specified, except that it shall be graded from the texture face.



205a. "SELECT KNOTTY"

Characteristics and limiting are:

- Checks - surface.
- Skips - occasional light on exposed edge.
- Splits - occasional short.
- Tolerance in
- Sawing - occasional, not to exceed $\frac{1}{16}$ " in thickness.
- Torn or
- Raised Grain - medium.
- Warp - light.
- Knots - sound tight approximately 2" in 6" widths to $3\frac{1}{2}$ " in 12" widths. Star checking and slight chipping permitted.
- Spike Knots - approximately 1/2 the width.



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205b. "QUALITY KNOTTY"

Characteristics and limiting provisions are:

- Checks - not limited.
- Holes - a few small, well scattered.
- Sap Stain - not limited.
- Shake - tight, through.
- Skips - light on face, heavy on exposed edge.
- Splits - short
- Tolerance in
 - Sawing - approximately $\frac{1}{16}$ " in thickness.
- Torn or
 - Raised Grain - heavy
 - Warp - medium.
- Knots - sound tight, star checked, chipped or torn.
- Spike Knots - not limited
- Cutout - occasional pieces may contain cutouts which can be removed by wasting not more than 10% of the length of the piece. 1 cutout permitted in pieces 6' to 9' in length; 2 in 10' to 16'; and in 3 in the lengths over 16'; the shortest cutting being 30".



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FACTORY LUMBER SHOP

206. Factory lumber shall be measured for the percentage of cuttings which can be obtained from a piece of lumber by ripping or cross-cutting or both to obtain clear or virtually clear cuttings for use in joining or similar factory work.

206a. THICKNESSES AND WIDTHS

- i) **WIDTHS:** Standard widths shall be 5" and wider, but permitting narrow widths, if specified. Shop Lumber is usually shipped in random widths although specified widths may be supplied. Widths 6" & narrower shall not be more than $\frac{1}{8}$ " scant when dry; 8" & wider widths shall not be more than $\frac{1}{4}$ " scant when dry.
- ii) **DRESSED THICKNESSES:** The following thickness shall be considered standard. All other thickness shall be considered special.

Nominal Thicknesses	cut full size	Finished Thicknesses S2S	.L.engths
1"		$\frac{25}{32}$ "	} 4' & longer multiples of 1'. Not more than 25% 8' & shorter
$1\frac{3}{8}$ "		$1\frac{5}{32}$ "	
$1\frac{5}{8}$ "		$1\frac{13}{32}$ "	
2"		$1\frac{25}{32}$ "	
$2\frac{1}{2}$ "		$2\frac{9}{32}$ "	
3"		$2\frac{3}{4}$ "	
4"		$3\frac{3}{4}$ "	

206b. SIZE OF CUTTINGS

- a) $9\frac{1}{2}$ " or wider, 18" or longer.
- b) 5" or wider, 3' or longer.
- c) A strip 2" or wider the length of the piece or 12' or longer.
- d) Full width cuttings only in 2", 3" and 4" - 3' & longer.



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206c. GRADE OF CUTTINGS

NO. 1: Cuttings in 1" and thicker stock shall be clear on both sides of the piece.

NO. 2: Cuttings shall be the same size as NO. 1, but will admit one of the following:

Checks - 1 or more small, whose combined length does not exceed 8".

Torn or

Raised Grain - very light, on one side only.

Knots - 1, tight $\frac{5}{8}$ ".


206d. "SELECT SHOP"

Each piece contains 70% or more of No. 1 Cuttings.

206e. "NO. 1 SHOP"

NO. 1 Shop shall be cutting stock containing not less than 50% of No. 1 Cuttings; or not less than 70% of NO. 1 and NO. 2 Cuttings of which there shall be not less than 25% of NO. 1 Cuttings in each piece.

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206f. "NO. 2 SHOP"

NO. 2 Shop shall be cutting stock falling below NO. 1 Shop and containing not less than 35% of No. 1 Cuttings; or not less than 55% of NO. 2 Cuttings; or 45% of NO. 1 and NO. 2 Cuttings combined.

206g. "NO. 3 SHOP"

NO. 3 Shop shall be of cutting stock admitting all pieces below the grade of NO. 2 Shop that contain approximately 25% of NO. 1 Cuttings; or 45% of NO. 2 Cuttings; or 35% of NO. 1 and NO. 2 Cuttings combined.



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FENCE BOARDS



210. Boards of this grade may be rough or surfaced, A.D., K.D. or green, and are especially selected for tight construction. The grade is determined from the best face. There are three grades: "**SELECT FENCING**," "**QUALITY FENCING**" and "**RUSTIC FENCING**."

210a. "SELECT FENCING"

Characteristics and limiting provisions are:

- Checks - not limited.
- Pin Holes - not limited.
- Shake - fine.
- Skips - hit and miss.
- Splits - short.
- Knots - sound and tight; knots not firmly fixed or unsound approximately 1/6 width.

Spike Knots - approximately 1/2 face width or equivalent.
S1S Boards may have tolerance of 1/16" over or under the net invoiced thickness.



210b. "QUALITY FENCING"

- Checks - not limited.
 - Holes - 1", 4 per 12'; grub or teredo equivalent.
 - Honeycomb - firm, 1/3 width
 - Knots - sound, tight; knots not firmly fixed or unsound approximately 1/3 the width.
 - Spike Knots - approximately 3/4 face width.
 - Pin Holes - not limited.
 - Shake - not limited.
 - Skips - hit or miss.
 - Splits - medium.
 - Unsound Wood - small spots & streaks equivalent to holes.
 - Wane - 1/2 thickness, 1/3 width.
 - White specks - firm, not limited
- S1S Boards may have tolerance of 1/16" over or under the net invoiced thickness.



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210c. "RUSTIC FENCING"

Lumber of this grade is suitable for low quality fencing and permits all characteristics which do not interfere with the use of the piece.

S1S Boards may have tolerance of $\frac{3}{16}$ " over or under the net invoiced thickness.

Boards resawn from surfaced lumber permits edge skips to not exceed $\frac{1}{4}$ ".

Rough sawn Boards may have a tolerance of $\frac{1}{4}$ " over or under the invoiced thickness.


Variation in width not to exceed $\frac{1}{2}$ " in rough material.

FOUNDATION LUMBER 2" & Thicker, 4" & Wider

211. The dimension stability and decay resistance qualities of this material make it ideally suited for use as Foundation Lumber.

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There is only one grade of Foundation Lumber: "**FOUNDATION.**"



In addition to the following specific provisions applicable to Foundation Lumber, the appropriate provisions in all other paragraphs in the rules apply.

For measurement of knots see Para. 320b.

It is selected from heartwood and must be free of heart centre (FOHC) and free of sapwood.



211a. "FOUNDATION"

Characteristics and limiting provisions are:

- Bark Pockets - not limited.
- Checks - seasoning; if through at ends, limited as splits.
- Shake - through heart shakes up to 2' long, well separated; if not through, single shakes 3' long or $\frac{1}{4}$ the length, whichever is greater.
- Skips - hit and miss; in 5% of pieces hit or miss or one heavy skip 2' long.
- Splits - medium.
- Torn Grain - not limited.
- Unsound Wood - peck, narrow streak $\frac{1}{6}$ the width.

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- Warp - light.
 Knots - sound, unsound or not firmly fixed but well spaced, are permitted in the following sizes or their equivalent displacement:

Nominal	Knot Size Width	* Holes (Any cause)	
4"	2"	1 ¹ / ₄ "	} One or equivalent smaller per 2 lin. ft.
6"	2 ¹ / ₂ "	1 ¹ / ₂ "	
8"	3"	2"	
10"	3 ¹ / ₂ "	2 ¹ / ₂ "	
12"	4"	3"	
over 12"	4 ¹ / ₂ "	3 ¹ / ₂ "	

Narrow face and spike knots are permitted if judged to have no more effect on strength than other knots.