Alaskan Yellow Cedar Glulam - ANSI

Made to the highest specifications and standards in a regularly inspected environment focused on quality. Western Archrib's glulam products are second to none. From straight glulam beams to complex curved shapes Western Archrib glulam is the ideal product.

Manufacturing Standards

Our production facilities are certified by the APA – Engineered Wood Systems to produce glulam in accordance with:

ANSI – A190.1 American National Standards Institute

As part of our commitment to the environment we offer Chain-of-Custody Certification on products manufactured with FSC® Certified Wood.

FSC® – STD-40-004 Companies supplying and manufacturing FSC® Certified Products

Manufacturing Locations

Edmonton, Alberta, Canada
Boissevain, Manitoba, Canada

Specifications

Certifications:

- APA certified glulam to ANSI A190.1-2017

Standard Sizes:

- Width – 3 1/8", 5 1/8", 6 ¾", 8 ½", 10 3/8", 12 3/8", 14 ¼", 15 ¾", 17 ¼", 19 ¼", 21 ¼", 23 ¼", 25 ¼"
- Depth – Minimum 4 ½" up to a maximum of 84" in increments of 1 1/2".
- Length – available in lengths up to 150'
- Custom sizes available upon request

Stress Grade:

- Typical grades include 20F-V12 and 20f-V13, see below link for APA complete design guide and stress grades: https://www.apawood.org/ansi-117

Profiles/Shapes:

- Beams
- Columns
- Curves
- Arches
- Pitch Tapered Beam
- Round/Elliptical Columns
- Multi Radii Curves
- Tudor Arches
- Shaped profiles
- Bridges
- Long Span Beams/Curves

Appearance Classifications – ANSI A190.1 - 2017

- *Industrial* – sides of member are surfaced true to specified dimensions. Occasional planning misses may occur, filling or patching is not required.
- *Architectural* – sides of member are surfaced smooth to specified dimensions, free from misses, wane and low laminations. Defects over ¾" in diameter are patched or filled.
- *Premium* - sides of member are surfaced smooth to specified dimensions, free from misses, wane and low laminations. Exposed wide face laminations have knot restriction limited to 20% of net face width. Defects over ¾" in diameter are patched or filled.

Adhesive/Service Grade

- Our adhesives are in accordance with ANSI 405-2018. and meet the qualification requirements of ANSI 190.1-2017.

Design Values:

- See below table for typical design values, use ANSI A117-2015 guide for complete design values

Reference Design Values for Alaskan Yellow Cedar Glulam from ANSI 117-2015:

			20F-V12	**20F-V13**
Bending About X-X Axis	Extreme Fiber in Bending, Bottom of Beam Positive Bending Moment	F_{bx+} (psi)	2000	2000
	Extreme Fiber in Bending, Top of Beam Negative Bending Moment	F_{bx-} (psi)	1400	2000
	Compression Perpendicular to Grain, Tension Face	$F_{c\perp x}$ (psi)	560	560
	Compression Perpendicular to Grain, Compression Face	$F_{c\perp x}$ (psi)	560	560
	Shear Parallel to Grain	F_{vx} (psi)	265	265
	Modulus of Elasticity	$E_{x\ true}$ (10^6 psi)	1.6	1.6
	Modulus of Elasticity	$E_{x\ app}$ (10^6 psi)	1.5	1.5
	Modulus of Elasticity	$E_{x\ min}$ (10^6 psi)	0.79	0.79
Bending About Y-Y Axis	Extreme Fiber in Bending	F_{by} (psi)	1250	1250
	Compression Perpendicular to Grain	$F_{c\perp y}$ (psi)	470	470
	Shear Parallel to Grain	F_{vy} (psi)	230	230
	Modulus of Elasticity	$E_{y\ true}$ (10^6 psi)	1.5	1.5
	Modulus of Elasticity	$E_{y\ app}$ (10^6 psi)	1.4	1.4
	Modulus of Elasticity	$E_{y\ min}$ (10^6 psi)	0.74	0.74
Axial Loa-ded	Tension Parallel to Grain	F_t (psi)	925	950
	Compression Parallel to Grain	F_c (psi)	1500	1550

Table: Values taken from the APA

* The information presented in the above table has been taken from the APA ANSI 117-2015 design guide. See guide for specific notes and further information alternate grade combinations.