BOISE GLULAM® Cedar Beam Allowable Stress Values

Boise Cascade manufacturers both Alaska Yellow and Port Orford cedar glulam beams. Allowable design stresses are listed in the table below for dry-use conditions. Since both cedars are considered durable species, these beams may be installed in exposed conditions. For an explanation of dry and wet-use conditions, please see Boise Cascade technical note BG-8: ***Cedar Glulam Design in Exterior Applications***. The project's design professional and/or building official shall determine the use; wet-use conditions shall be assumed if the use has not been determined. Please note that wet-use reductions are currently not included in the BC Calc software program.

Boise Cedar Glulam Allowable Stresses

Species & Grade	Bending F_b [psi]		Horizontal Shear F_v [psi]	Modulus of Elasticity E [psi]	Compression Parallel to Grain F_c [psi]	Compression Perp to Grain F_c [psi]
	Tension Zone in Tension	Compression Zone in Tension				
Alaska Yellow Cedar 20F-V12	2000	1400	265	1,500,000	1500	560
Port Orford Cedar 22F-V14	2200	1650	265	1,700,000	2100	560

Note: Reductions factors shall be applied to design stresses in wet-use conditions.
See Boise Cascade EWP Tech Note BG-8 for further information.

The grades listed above are unbalanced layups. Balanced layups (AYC 20F-V13 and POC 22F-V15) are also available on a custom order basis. For further information, please contact Boise Cascade EWP Engineering at 888.234.0056.