



WESTERN ARCHRIB PRODUCTS

GLULAM



DOUGLAS FIR

SPRUCE AND LODGEPOLE PINE

[WWW.TRICONTRUSS.CA](http://WWW.TRICONTRUSS.CA)

  
**western archrib**  
structural wood systems



# CSA DOUGLAS FIR

Douglas Fir offers the highest design properties available in Glulam. Combining a wide variety of finish, shape, and size, application options are unlimited.

Manufactured to the exacting standards of CSA, ANSI, or JAS. Available in grades 20f-E and EX, 24f-E and EX, or 16c-E.

## SPECIFIED STRENGTHS AND MODULUS OF ELASTICITY

		Douglas Fir - Larch				
		24f-E	24f-EX	20f-E	20f-EX	16c-E
Bending Moment (pos.)	fb	30.6	30.6	25.6	25.6	14.0
Bending Moment (neg.)	fb	23.0	30.6	19.2	25.6	14.0
Longitudinal Shear	fv	2.00	2.00	2.00	2.00	2.00
Compression parallel	fc	30.2*	30.2*	30.2*	30.2*	30.2
Compression parallel combined with bending	fc	30.2*	30.2	30.2*	30.2	30.2
Compression perpendicular	fc					
- compression face bearing		7.0	7.0	7.0	7.0	7.0
- tension face bearing		7.0	7.0	7.0	7.0	7.0
Tension net section	ftn	20.4*	20.4	20.4*	20.4	20.4
Tension gross section	ftg	15.3*	15.3	15.3*	15.3	15.3
Tension perpendicular	ftp	0.83	0.83	0.83	0.83	0.83
Modulus of elasticity	E	13100	13100	12400	12400	12400

\*Note: The use of this stress grade for this primary application is not recommended.

## IMPERIAL BEAM SIZES

Widths: 3 1/8", 5 1/8", 6 7/8", 8 1/2", 10 3/8", 12 3/8" and 14"  
Depths: 4 1/2" to 84" (1 1/2" increments)

## METRIC BEAM SIZES

Widths: 80mm, 130mm, 175mm, 215mm, 265mm, 315mm, 365mm  
Depths: 114mm to 2128mm (38mm increments)

## APPLICATIONS

Floor Beams, Roof Beams, Headers, Purlins, Trusses, Arches, Pitched-tapered beams



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# CSA SPRUCE AND LODGEPOLE PINE

Made to the highest specifications and standards in a regularly inspected environment focussed on quality, Western Archrib's Glulam products are second to none.

Manufactured to CSA or JAS criteria in 20f-E and EX or 12c-E grades.

## SPECIFIED STRENGTHS AND MODULUS OF ELASTICITY

		Spruce - Lodgepole Pine		
		20f-E	20f-EX	12c-E
Bending Moment (pos.)	fb	25.6	25.6	9.8
Bending Moment (neg.)	fb	19.2	25.6	9.8
Longitudinal Shear	fv	1.75	1.75	1.75
Compression parallel	fc	25.2*	25.2*	25.2
Compression parallel combined with bending	fc	25.2*	25.2*	25.2
Compression perpendicular	fc			
- compression face bearing		5.8	5.8	5.8
- tension face bearing		5.8	5.8	5.8
Tension net section	ftn	17.0*	17.0	17.0
Tension gross section	ftg	12.7*	12.7	12.7
Tension perpendicular	ftp	0.51	0.51	0.51
Modulus of elasticity	E	10300	10300	9700

\*Note: The use of this stress grade for this primary application is not recommended.

## IMPERIAL BEAM SIZES

Widths: 3 1/8", 5 1/8", 6 7/8", 8 1/2", 10 3/8", 12 3/8" and 14"

Depths: 4 1/2" to 84" (1 1/2" increments)

## METRIC BEAM SIZES

Widths: 80mm, 130mm, 175mm, 215mm, 265mm, 315mm, 365mm

Depths: 114mm to 2128mm (38mm increments)

## APPLICATIONS

Floor Beams, Roof Beams, Headers, Purlins, Trusses



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