ROSBORO X-BEAM
NEXT-GEN GLULAM

Stock Sizes Inventoried in California

Width	Depth															
3½"	6	7½	9	9½	10½	11⅞	13½	14	15	16	16½	18	-	-	-	-
5½"	6	7½	9	9½	10½	11⅞	13½	14	15	16	16½	18	19½	21	22½	24
6¾"	-	-	9	-	10½	11⅞	13½	-	15	-	16½	18	19½	21	22½	24
8¾"	-	-	9	-	10½	11⅞	13½	-	15	-	16½	18	19½	21	22½	24

Highlighted items are Engineered Wood Depth.

EWP Distribution Network

Engineered wood products such as glulam, I-joist, and LVL are inventoried locally to provide shipment in 24 hours or less. Wholesale distributors maintain large inventories of long-length EWP. These distributors cut glulam and other EWP to specified length and ship to the lumber yard within 24 hours or less. In addition, many lumber yards maintain inventories of the most popular glulam and EWP items. The lumber yard assembles the framing package (glulam, EWP, lumber, hangers, etc.) and delivers the materials to the jobsite. The wholesale distributor network gives every lumber yard quick access to a wide range of EWP products and brands.

Rosboro X-Beam™ Distributors by Region

NORTHERN CALIFORNIA

Boise Cascade	Lathrop, CA	(800) 796-9573
BMD, Incorporated	Galt, CA	(800) 356-3001
Sherwood Lumber	Stockton, CA	(888) 498-0756
Weyerhaeuser	Fresno, CA	(800) 292-0704
Weyerhaeuser	Stockton, CA	(800) 672-2130
Weyerhaeuser	Sacramento, CA	(800) 952-5616
Weyerhaeuser	Redding, CA	(800) 233-7888

SOUTHERN CALIFORNIA

Huff Lumber	Santa Fe Springs, CA	(562) 921-1331
Weyerhaeuser	Fontana, CA	(800) 647-7762
Weyerhaeuser	Santa Clarita, CA	(800) 321-0728

Design Software Support

Rosboro's X-Beam products are supported in a wide range of design software that includes isDesign™, ENERCALC™, SAPHIRE™, StrucCalc™, as well as Weyerhaeuser's FORTE®, Javelin®, and ESTIMA™.

Rosboro glulam is inspected and certified by APA/EWS in conformance with American National Standards (ANSI) A190.1-12 and ICC-ES Report ES2-1940. Other approvals include City of Los Angeles, California Department of the State Architect (DSA), and City of Seattle.

Rosboro X-Beam™: Design Values

Product	Layup Combination	Flexural Stress F_b (psi)		Compression Perpendicular to Grain $F_{c\perp}$ (psi)	Shear F_v (psi)	Moe (10^6 psi)	
		Tension Zone	Compression Zone			Apparent	True
X-Beam	24F-V4	2,400	1,850	650	265	1.8	1.9

1. F_b shall be adjusted by the volume effect factor using the following formula:
$C_v = (5.125/b)^{1/10} \times (12/d)^{1/10} \times (21/L)^{1/10} \leq 1.0$
where: b = beam width (in), d = beam depth (in), L = beam length (ft)

2. For non-prismatic members, notched members, members subject to impact or cyclic loading, or shear design of bending members at connections (NDS-05 3.4.3.3), the design shear (F_v) shall be multiplied by a factor of 0.72.

3. The F_v values do not include adjustments for checking.

Rosboro X-Beam™: Design Properties

EWS 24F-V4, Dry-Use, F_b = 2,400 psi, F_v = 265 psi, E = 1.8 x 10^6 psi, $F_{c\perp}$ = 650 psi, Indicates IJC Compatible Depths

Width	Depth (in)	Weight (lbf/ft)	Maximum Resistive Shear (lbf)			Maximum Resistive Shear (ft-lbf)			EI (Apparent) (10^6 in.^{2}-lbf)
			100%	115%	125%	100%	115%	125%	
3½"	6	5.1	3,710	4,267	4,638	4,200	4,830	5,250	113
	7½	6.4	4,638	5,333	5,797	6,563	7,547	8,203	221
	9	7.7	5,565	6,400	6,956	9,450	10,868	11,813	383
	9½	8.1	5,874	6,755	7,343	10,529	12,109	13,161	450
	10½	8.9	6,493	7,466	8,116	12,863	14,792	16,078	608
	11⅞	10.1	7,343	8,444	9,178	16,452	18,920	20,565	879
	13½	11.5	8,348	9,600	10,434	21,263	24,452	26,578	1,292
	14	11.9	8,657	9,955	10,821	22,867	26,297	28,583	1,441
	15	12.8	9,275	10,666	11,594	26,250	30,188	32,813	1,772
	16	13.6	9,893	11,377	12,367	29,867	34,347	37,333	2,150
	16½	14.0	10,203	11,733	12,753	31,763	36,527	39,703	2,358
	18	15.3	11,130	12,800	13,913	37,800	43,470	47,250	3,062
	19½	16.6	12,058	13,866	15,072	44,363	51,017	55,453	3,893
5½"	6	8.0	5,830	6,705	7,288	6,600	7,590	8,250	178
	7½	10.0	7,288	8,381	9,109	10,313	11,859	12,891	348
	9	12.0	8,745	10,057	10,931	14,850	17,078	18,563	601
	9½	12.7	9,231	10,615	11,539	16,546	19,028	20,682	707
	10½	14.0	10,203	11,733	12,753	20,213	23,244	25,266	955
	11⅞	15.9	11,539	13,269	14,423	25,853	29,731	32,316	1,382
	13½	18.0	13,118	15,085	16,397	33,413	38,424	41,766	2,030
	14	18.7	13,603	15,644	17,004	35,933	41,323	44,917	2,264
	15	20.1	14,575	16,761	18,219	41,250	47,438	51,563	2,784
	16	21.4	15,547	17,879	19,433	46,933	53,973	58,667	3,379
	16½	22.1	16,033	18,437	20,041	49,913	57,399	62,391	3,706
	18	24.1	17,490	20,114	21,863	59,400	68,310	74,250	4,811
	19½	26.1	18,948	21,790	23,684	69,713	80,169	87,141	6,117
	21	28.1	20,405	23,466	25,506	80,850	92,978	101,063	7,640
	22½	30.1	21,863	25,142	27,328	92,813	106,734	116,016	9,397
	24	32.1	23,320	26,818	29,150	105,600	121,440	132,000	11,405
6¾"	9	14.8	10,733	12,342	13,416	18,225	20,959	22,781	738
	10½	17.2	12,521	14,399	15,625	24,806	28,527	31,008	1,172
	11⅞	19.7	14,310	16,457	17,888	32,400	37,260	40,500	1,750
	13½	22.1	16,099	18,514	20,123	41,006	47,157	51,258	2,491
	15	24.6	17,888	20,571	22,359	50,625	58,219	63,281	3,417
	16½	27.1	19,676	22,628	24,595	61,256	70,445	76,570	4,548
	18	29.5	21,465	24,685	26,831	72,900	83,835	91,125	5,905
	19½	32.0	23,254	26,742	29,067	85,556	98,390	106,945	7,508
	21	34.5	25,043	28,799	31,303	99,225	114,109	124,031	9,377
	22½	36.9	26,831	30,856	33,539	113,906	130,992	142,383	11,533
	24	39.4	28,620	32,913	35,775	129,600	149,040	162,000	13,997
8¾"	9	19.1	13,913	15,999	17,391	23,625	27,169	29,531	957
	10½	22.3	16,231	18,666	20,289	32,156	36,980	40,195	1,519
	11⅞	25.5	18,550	21,333	23,188	42,000	48,300	52,500	2,268
	13½	28.7	20,869	23,999	26,086	53,156	61,130	66,445	3,229
	15	31.9	23,188	26,666	28,984	65,625	75,469	82,031	4,430
	16½	35.1	25,506	29,332	31,883	79,406	91,317	99,258	5,896
	18	38.3	27,825	31,999	34,781	94,500	108,675	118,125	7,655
	19½	41.5	30,144	34,665	37,680	110,906	127,542	138,633	9,732

1. Beam weight is assumed to be 35 pcf.

2. Maximum resistive moment shall be adjusted by the volume factor based on NDS-05.