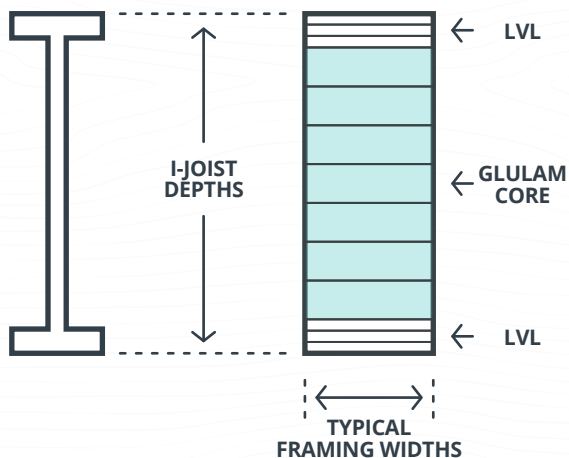


ROSBORO BIG BEAM DF™

HIGH PERFORMANCE | 3,000f_b | 2.2 E (TRUE)

Rosboro Big Beam DF Glulam is the perfect choice for high strength engineered beam and header applications. The full 3½" and 5½" widths make it ideal for wall framing while I-joist depths are compatible in EWP floor systems. Because it is a glulam product, Rosboro Big Beam DF is: dry, stable, easy to cut, easy to install, and cost effective.

BIG BEAM DF AT A GLANCE



BALANCED LAYUP

- No Top
- Easy to design and install

STRAIGHT, DIMENSIONALLY STABLE, CONSISTENT SIZES

- Hardware installs flush on planed surface
- Compatible in EWP framing systems
- Won't shrink or twist

DOES NOT REQUIRE SPECIAL HANGERS OR SCREWS

- Lower hardware and jobsite labor cost
- It's real wood so it is easy to cut and drive fasteners"

SIZES Full width: 3½" • 5½" • 7"
Depths: 9¼" • 9½" • 11¼" • 11⅞" • 14" • 16" • 18"

Big Beam DF is Framing Appearance, is sealed to resist moisture and maintain size tolerance.

Design Value

Product	Layup combination	Flexural Stress F_b (psi) ²		Compression Perpendicular to grain F_c (psi)	Shear F_v (psi) ³	MOE (10^6 psi)	
		Tension Zone	Compression Zone			Apparent	True
Big Beam DF	30F-E/DF2	3000	3000	650	265*	2.1	2.2

* On 9¼" depth $F_v=255$ (psi)

Design Properties

EWS 30F-E/DF2 Dry-Use $F_b = 3,000$ psi $F_v = 265$ psi $E = 2.1 \times 10^6$ psi $E_{c1} = 650$ psi

Width (in.)	Depth (in.)	Weight (Lbs / lineal Foot)	Maximum Resistive Shear (lbf)			Maximum Resistive Moment (ft.-lbf)			EI (Apparent) (10^6 in. ² - lbf)
			100%	115%	125%	100%	115%	125%	
3½	9¼	8.35	5,504	6,329	6,880	12,478	14,350	15,597	485
	9½	8.56	5,874	6,755	7,343	13,161	15,136	16,452	525
	11¼	10.06	6,956	8,000	8,695	18,457	21,226	23,071	872
	11⅞	10.59	7,343	8,444	9,178	20,565	23,649	25,706	1,026
	14	12.41	8,657	9,955	10,821	28,583	32,871	35,729	1,681
	16	14.11	9,893	11,377	12,367	37,333	42,933	46,667	2,509
	18	15.82	11,130	12,800	13,913	47,250	54,338	59,063	3,572
5½	9¼	12.96	8,649	9,946	10,811	19,608	22,549	24,510	762
	9½	13.29	9,231	10,615	11,539	20,682	23,785	25,853	825
	11¼	15.64	10,931	12,571	13,664	29,004	33,354	36,255	1,370
	11⅞	16.48	11,539	13,269	14,423	32,316	37,163	40,395	1,612
	14	19.33	13,603	15,644	17,004	44,917	51,654	56,146	2,641
	16	22.01	15,547	17,879	19,433	58,667	67,467	73,333	3,942
	18	24.70	17,490	20,114	21,863	74,250	85,388	92,813	5,613
7	9¼	16.34	11,008	12,659	13,759	24,956	28,699	31,195	970
	9½	16.77	11,748	13,511	14,685	26,323	30,271	32,904	1,050
	11¼	19.75	13,913	15,999	17,391	36,914	42,451	46,143	1,744
	11⅞	20.82	14,685	16,888	18,357	41,130	47,299	51,412	2,051
	14	24.45	17,313	19,910	21,642	57,167	65,742	71,458	3,361
	16	27.87	19,787	22,755	24,733	74,667	85,867	93,333	5,018
	18	31.28	22,260	25,599	27,825	94,500	108,675	118,125	7,144

- (1) Beam weight is assumed to be 36 pcf.
- (2) Maximum resistive moment shall be adjusted by the volume factor based on NDS-15.
- (3) *On 9¼" depth $F_v=255$ (psi)

Rosboro Big Beam DF is the perfect choice for high-strength engineered beam and header applications.

Big Beam bears the load, that means less work & less material for you.

