

 **EXTRAFORM**



 **EXTRA BEAM**

I'm feeling wood

Company profile

Extraform d.o.o. is one of the largest European companies in the wood industry. Directed by a young, dynamic and professional team, Extraform d.o.o. leads the market of formwork beams and shuttering panels. With its best technology and respect for the environment, Extraform d.o.o. is your reliable manufacturer.

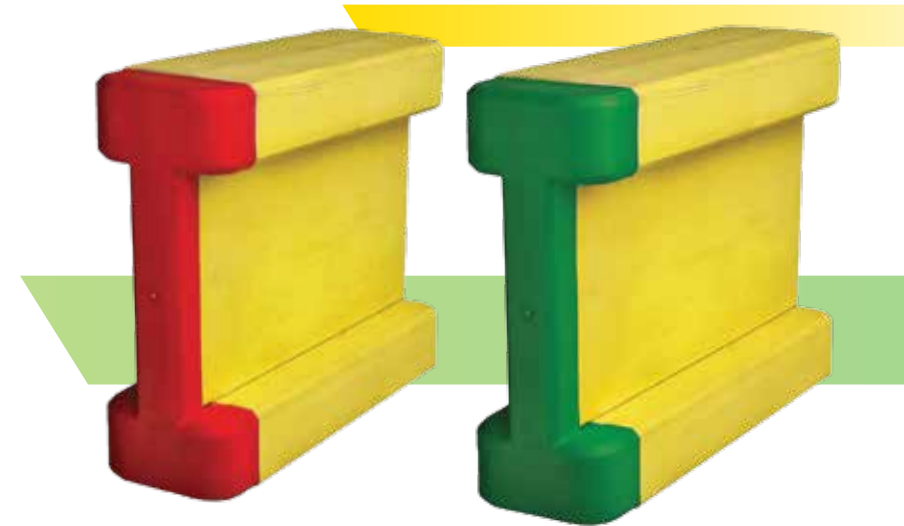
Mission

Extraform d.o.o. aims to become the world's leading formwork beam manufacturer. We respect and understand the ideas and projects of our customers who are the true engine of our growth. We firmly believe in this and we have built a team of reliable and hard-working experts led by management that is always willing to invest in innovation, human resources and the environment.



Product	Wooden formwork H20 beams		
Wood species	Spruce		
Wood moisture	12 % +/- 2 % at delivery		
Weight	4.5 kg/m		
Gluing	Melamine resin based adhesive, adhesive type I EN 301 - approved for use with load bearing timber components		
Surface protection	Water repellent colour glaze is used to ensure the beam is waterproof		
Chord	<ul style="list-style-type: none"> • Made of carefully selected spruce wood • Finger-jointed, solid wood cross-sections, dimensions 80 x 40 mm • Finger-jointed chords • Web-milling on the opposing side of the core (left-sided chord surface) • Planned and chamfered to app. 0.4 mm 		
Web	3-ply solid wood panel, laminated, vertical growth-ring orientation		
Surface protection	The entire beam is treated with a water-resistant colour stain		
Support	Due to the 3-ply solid wood webs, Extrabeam H20 and Extrabeam H20+ can be cut into and supported at any length		
Dimensions and tolerances	Dimension	Value^a	Tolerance^b
	Beam height	200 mm	± 2 mm
	Chord height	40 mm	± 0,6 mm
	Chord width	80 mm	+ 0,8 mm / - 1,2 mm
	Web thickness	28 mm	± 1 mm
	<i>a) These values apply to a wood moisture content of 12 % ± 2%</i>		
Technical specifications	Strains	Permissible stress values	Characteristic limits of load-bearing capacity
	Shearing force	ZUL Q = 11,0 kN	$V_k = 23,9$ kN
	Bending moment	ZUL M = 5,0 kNm	$M_k = 10,9$ kNm
	Support	-	$R_{b,k} = 47,8$ kN
	Section modulus ¹	$W_x = 461$ cm ³	
	Geometrical moment of inertia ¹	$I_x = 4.613$ cm ⁴	
	Elasticity modulus	E = 10.000 N / mm ²	
	Shearing modulus	G = 600 N / mm ²	
	<i>1) The values of the section modulus and the geometrical moment of inertia apply to new or used concrete formwork beams. An analogously increased factor of safety needs to be added for severely worn beams</i>		
Standard lengths	1,95 / 2,45 / 2,65 / 2,90 / 3,30 / 3,60 / 3,90 / 4,50 / 4,90 / 5,90 / max. 6 m		
Packaging	Standard packaging: 50 pcs package / Container packaging: 100 pcs package The formwork beams are packed in protective packaging. The packages can be easily lifted and moved with a forklift. They are ready for immediate use at the construction site		

EXTRABEAM



Extrabeam H20 is the strongest and lightest formwork beam made of engineered spruce wood. Our formwork beams are produced in various standard lengths.

With the Chords made of high-quality and graded massive finger-jointed timber, the Webs made of 3-ply laminated wood panels, and an optional protective cap that prevents the beam from being exposed to premature chipping on the chord ends, Extrabeam H20 ensures sustainability and durability in all climate zones.



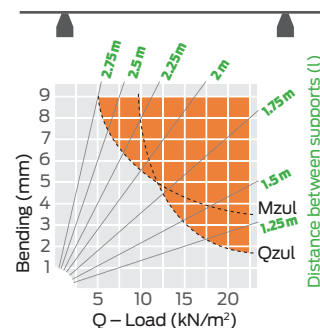
Chart of charge values

Floor thickness (cm)	Total load (kN/m ²)	Max. permissible support width of the crossbeam (m) = distance between main beams (m)				Max. permissible support width = distance between supports (m)									
		Distance between crossbeams (m)				Selected distance between the main beams (m)									
		0.50	0.625	0.667	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	3.00	3.50	
10	4.38	3.70	3.43	3.35	3.22	2.93	2.72	2.50	2.31	2.16	2.04	1.93	1.70	1.45	
12	4.91	3.50	3.24	3.17	3.05	2.77	2.57	2.36	2.19	2.05	1.92	1.82	1.52	1.30	
14	5.43	3.32	3.09	3.02	2.91	2.64	2.45	2.24	2.08	1.94	1.82	1.64	1.37	1.18	
16	5.95	3.19	2.96	2.90	2.79	2.54	2.35	2.14	1.98	1.85	1.66	1.50	1.25	1.07	
18	6.48	3.07	2.85	2.79	2.69	2.44	2.25	2.06	1.90	1.72	1.53	1.38	1.15	0.99	
20	7.00	2.97	2.76	2.70	2.60	2.36	2.17	1.97	1.82	1.59	1.42	1.28	1.07	0.91	
22	7.53	2.88	2.68	2.62	2.52	2.29	2.09	1.90	1.69	1.48	1.32	1.19	0.99	0.85	
24	8.05	2.81	2.61	2.55	2.45	2.23	2.02	1.84	1.58	1.39	1.23	1.11	0.93	0.80	
26	8.57	2.74	2.54	2.49	2.39	2.18	1.95	1.73	1.49	1.30	1.16	1.04	0.87	0.75	
28	9.10	2.67	2.48	2.43	2.34	2.12	1.89	1.63	1.40	1.23	1.09	0.98	0.82	0.71	
30	9.68	2.61	2.43	2.38	2.29	2.06	1.83	1.54	1.32	1.15	1.03	0.93	0.77	0.65	
35	11.25	2.49	2.31	2.26	2.18	1.90	1.59	1.32	1.14	0.99	0.89	0.80	0.66	0.56	
40	12.83	2.38	2.21	2.17	2.07	1.74	1.39	1.16	1.00	0.87	0.78	0.70	0.58	0.49	
45	14.40	2.29	2.13	2.07	1.94	1.55	1.24	1.04	0.89	0.78	0.69	0.62	0.51	0.44	
50	15.97	2.22	2.03	1.96	1.84	1.40	1.12	0.94	0.80	0.70	0.62	0.56	0.46	0.40	
55	17.54	2.15	1.93	1.87	1.69	1.27	1.02	0.85	0.73	0.63	0.56	0.51	0.42	0.36	
60	19.11	2.07	1.85	1.75	1.56	1.17	0.94	0.78	0.66	0.58	0.52	0.46	0.39	0.33	
65	20.68	1.98	1.72	1.62	1.44	1.08	0.87	0.72	0.61	0.54	0.48	0.43	0.36	0.31	
70	22.26	1.91	1.60	1.50	1.34	1.01	0.81	0.66	0.57	0.50	0.44	0.40	0.33	0.28	
75	23.83	1.85	1.50	1.41	1.25	0.94	0.75	0.62	0.53	0.47	0.41	0.37	0.31	0.27	
80	25.40	1.76	1.41	1.32	1.17	0.88	0.71	0.58	0.50	0.44	0.39	0.35	0.29	0.25	
85	26.97	1.65	1.32	1.24	1.11	0.83	0.66	0.55	0.47	0.41	0.37	0.33	0.27	0.23	
90	28.54	1.56	1.25	1.17	1.05	0.79	0.62	0.52	0.44	0.39	0.35	0.31	0.26	0.22	
95	30.11	1.48	1.19	1.11	0.99	0.75	0.59	0.49	0.42	0.37	0.33	0.29	0.25	0.21	
100	31.69	1.41	1.13	1.06	0.94	0.71	0.56	0.47	0.40	0.35	0.31	0.28	0.23	0.20	

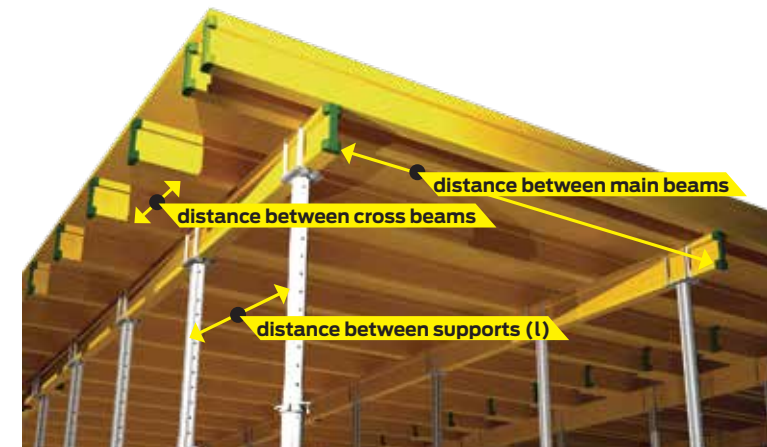
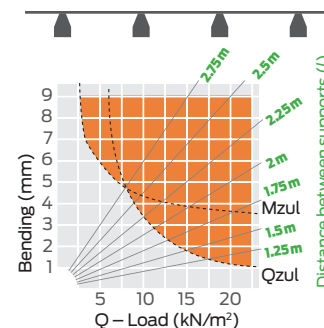
An example of calculation: Floor thickness: 20 cm, distance between crossbeams: 0.75 m; we are looking for the distance between the main beams and the supports. The permissible distance between the main beams according to the **table 1 = 2.60 m**. The identical or the closest distance between the main beams in the **table 2 = 2.5 m**. Look for the permissible distance between supports in the **table 2**, read vertically down the column "2.50 m" and horizontally in the row "20 cm" of the column "floor thickness", the result is **1.28 m**. Caution: Examine the supports to ensure the corresponding carrying force.

Bending which occurs in formwork beams that are loaded by a particular force at different space intervals of support.

Single span beam



Multi span beam



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