

BEAM

HABE-20





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Wooden beam for formwork, consisting of an upper and lower wing and featuring a central section consisting of three layers. The union is designed as a notched and glued joint.

HEADS

Fir wood of the highest quality, calibrated with levelled edges and with finger type joints along their length.

WEBS

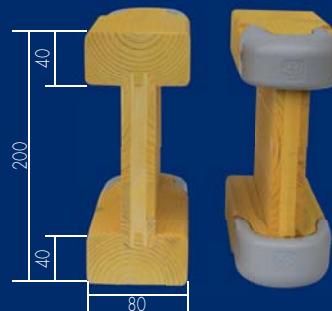
Of a three-layer board with a thickness of 27 mm.

PROTECTED BEAM END

Anti-shock polymer caps specifically designed to last longer on site.

Admissible Bending Moment: $M=5.0 \text{ kNm}$

Admissible Transversal Strength: $Q=11.0 \text{ kN}$



STANDARD SIZES

Length: 1950, 2450, 2650, 2900, 3300, 3600, 3900, 4500, 4900, 5900 mm

Width: 200 mm

Thickness: 80 mm

BUNDLE

Standard Bundle: 50 pieces; for container 100 pieces.

WEIGHT

Per linear metre: 4,7 kg.

JOINT

Notched, finger-type joint between core and wings, throughout their length. High-frequency, high-strength gluing.

ANTI-HUMIDITY TREATMENT

Protective paintwork throughout the beam.

CERTIFICATIONS

ÜZ-BWU03-I 14.24.29 certificate by MPA Stuttgart in accordance with european regulation EN 13377 and DIN V 20000-2.



Gluing licence C1 according with DIN 1052-10 certified bu MPA Stuttgart.

Advantages

STRENGTH AND SAFETY

Dimensional stability and recovery capacity after application of load. High load capacity throughout their length. Protection against humidity, knocks and splintering.

LIGHTNESS

Easy handling and quick assembly. Minimum weight.

ECONOMICAL

Can be used many times. Good ratio between price and uses. Easy storage.

ADAPTABILITY TO BUILDING WORK

Ideal for use with three-layer board. The beam can be cut at any point. Supports can be placed between beams at any point. Can be used in any kind of formwork.



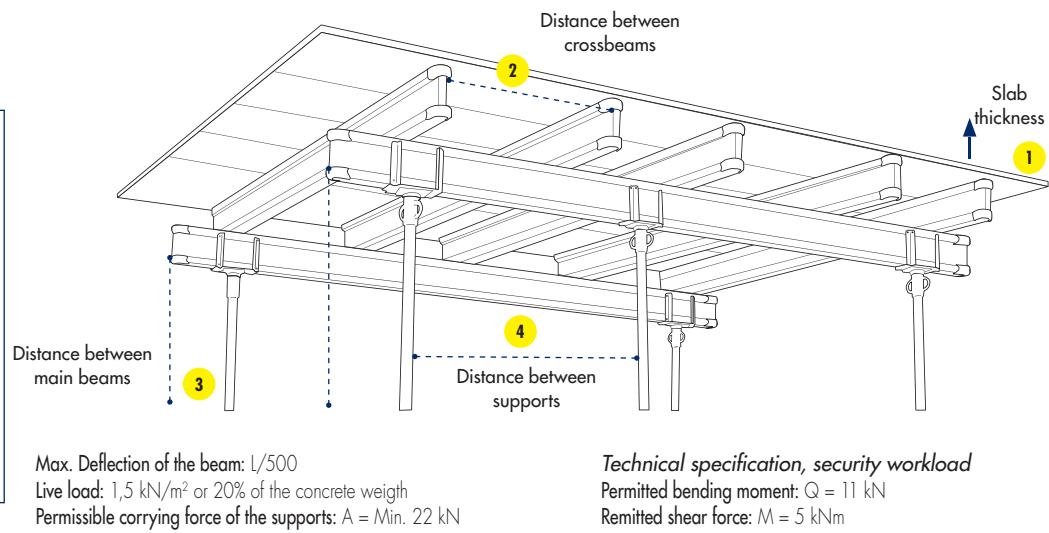
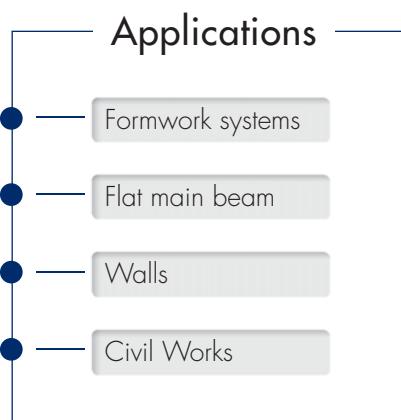
DIMENSIONS AND TOLERANCES		
Dimensions ¹	HABE 20	Tolerances ²
Beam height (mm)	200	(+/- 2 mm)
Head height (mm)	40	(-1,5 %)
Head width (mm)	80	(-1,5 %)
Web thickness (mm)	26,8	(+/- 0,5 mm)

TECHNICAL SPECIFICATIONS	
HABE 20	
Permissible modulus (kNm)	5
Permissible shearing force Q (kN)	11
Section modulus ¹ W x (cm ³)	461
Geometrical moment of inertia ¹ J x (cm ⁴)	4613

1. These values apply at a wood moisture content of 12%.

2. Pursuant to approval notice ÜZBWU034 14.24.29

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.



SLAB THICKNESS	TOTAL LOAD	CROSS BEAMS			MAIN BEAMS											
		distance between crossbeams (m)			selected distance between main beams (m)											
cm	kN/m ²	0,5	0,625	0,75	1	1,25	1,5	1,75	2	2,25	2,5	2,75	3			
		Max. Permissible support distance = distance between Main Beams														
10	4,35	3,20	2,98	2,80	2,54	2,36	2,22	2,11	2,02	1,94	1,87	1,82	1,68			
12	4,87	3,09	2,87	2,70	2,45	2,27	2,14	2,03	1,94	1,87	1,80	1,64	1,50			
14	5,39	2,98	2,77	2,61	2,37	2,20	2,07	1,97	1,88	1,81	1,63	1,48	1,36			
16	5,91	2,89	2,69	2,53	2,30	2,13	2,01	1,91	1,82	1,65	1,48	1,35	1,24			
18	6,43	2,81	2,61	2,46	2,23	2,07	1,95	1,85	1,71	1,52	1,36	1,24	1,14			
20	6,95	2,74	2,55	2,39	2,18	2,02	1,90	1,81	1,58	1,40	1,26	1,15	1,05			
22	7,47	2,68	2,48	2,34	2,12	1,97	1,86	1,68	1,47	1,30	1,17	1,07	0,98			
24	7,99	2,62	2,43	2,29	2,08	1,93	1,81	1,57	1,37	1,22	1,10	1,00	0,91			
26	8,51	2,56	2,38	2,24	2,03	1,89	1,72	1,47	1,29	1,14	1,03	0,94	0,86			
28	9,03	2,51	2,33	2,19	1,99	1,85	1,62	1,39	1,21	1,08	0,97	0,88	0,81			
30	9,55	2,47	2,29	2,15	1,96	1,83	1,53	1,31	1,15	1,02	0,92	0,83	0,76			
32	10,07	2,42	2,25	2,12	1,92	1,74	1,45	1,24	1,09	0,97	0,87	0,79	0,72			
34	10,59	2,38	2,21	2,08	1,89	1,66	1,38	1,18	1,03	0,92	0,83	0,75	0,69			
36	11,11	2,34	2,18	2,05	1,86	1,58	1,31	1,13	0,99	0,88	0,79	0,72	0,66			
38	11,63	2,31	2,14	2,02	1,83	1,51	1,26	1,08	0,94	0,84	0,75	0,68	0,63			
40	12,15	2,28	2,11	1,99	1,81	1,44	1,20	1,03	0,90	0,80	0,72	0,65	0,60			
45	13,45	2,20	2,04	1,92	1,63	1,30	1,09	0,93	0,81	0,72	0,65	0,59	0,54			
50	14,75	2,13	1,98	1,86	1,49	1,19	0,99	0,85	0,74	0,66	0,59	0,54	0,49			
55	16,05	2,07	1,93	1,81	1,37	1,09	0,91	0,78	0,68	0,60	0,54	0,49	0,45			
60	17,35	2,02	1,88	1,77	1,26	1,01	0,84	0,72	0,63	0,56	0,50	0,46	0,42			

The charts provided are indicative in nature and cannot replace those supplied by the technical officer, responsible for the building work. Lana S. Coop. declines any responsibility in this regard. We reserve the right to modify the specifications contained in this catalogue without prior warning.

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