

P20 FORMWORK BEAMS





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myWood P20 formwork beams have established **worldwide** as an indispensable branded product in the construction industry. For almost 20 years our family business in Slovakia, Polomka, has been producing **high durable wooden formwork beams** from fine-grained coniferous wood that meets the demands of quality-conscious customers.



FACTS

Standard:

- Certified according to **EN13377**
- Solid **27 mm** 3-layer web and rounded ends
- Easy to handle, very dimensionally stable
- High product safety with an optimal price-performance ratio

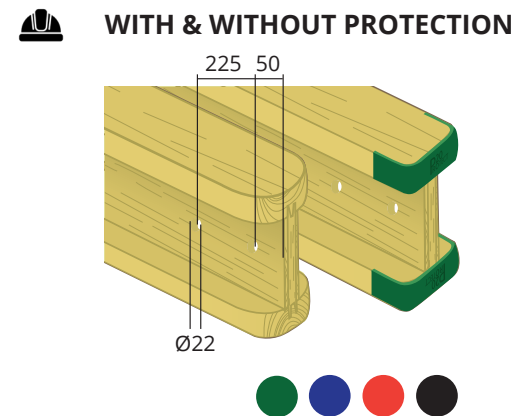
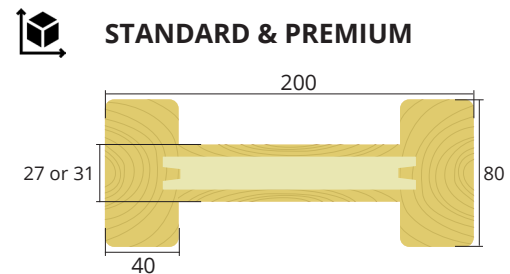
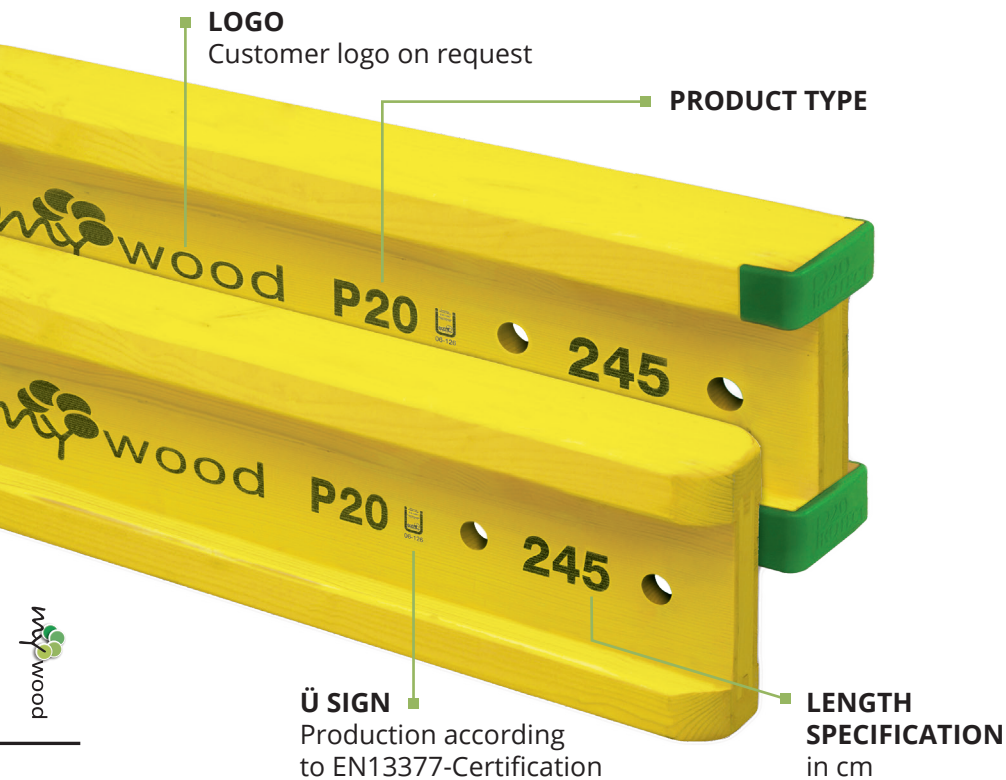


Premium:

- Certified according to **EN13377**
- Strong **31 mm** 3-layer web and rounded ends
- Designed for extra long service life
- Providing highest safety under extreme loadings



PRODUCT RANGE

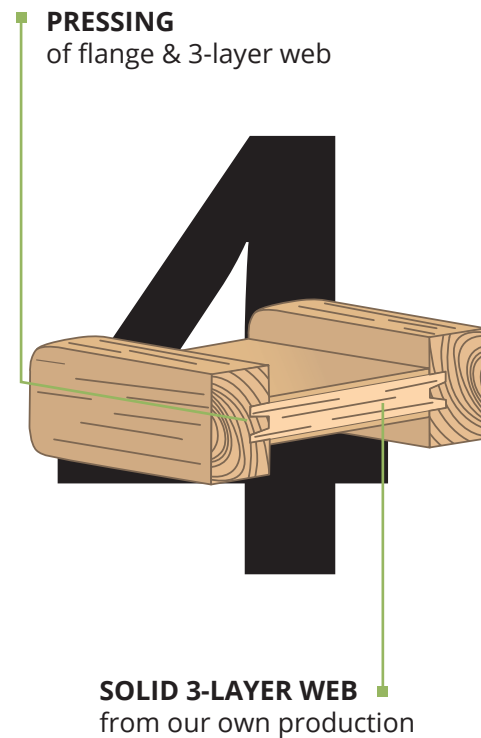
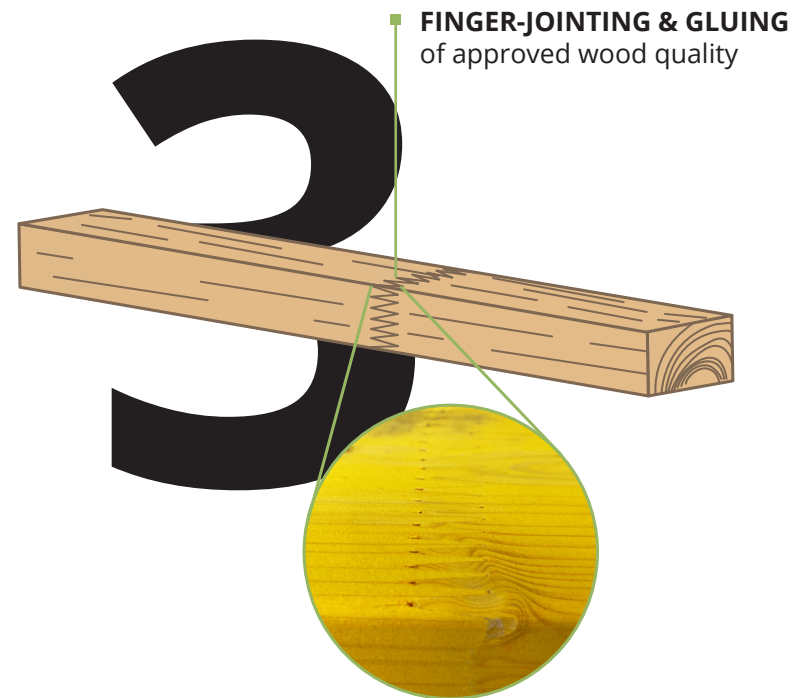
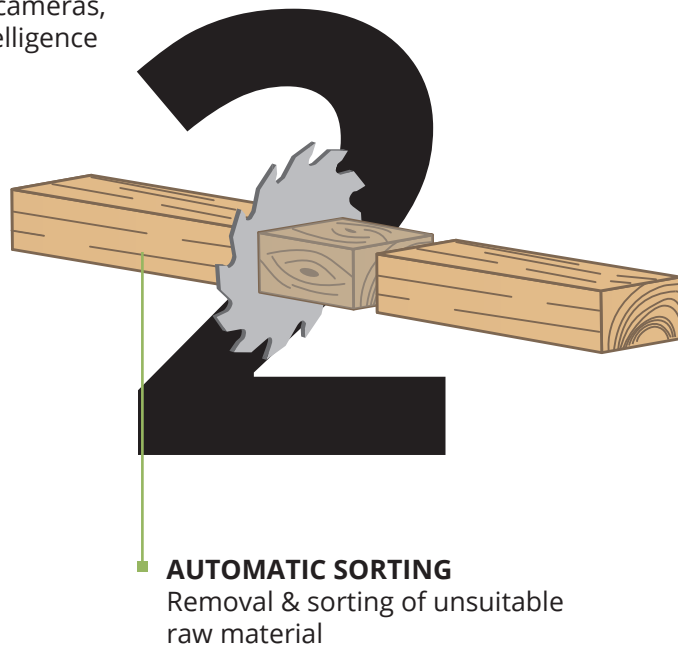
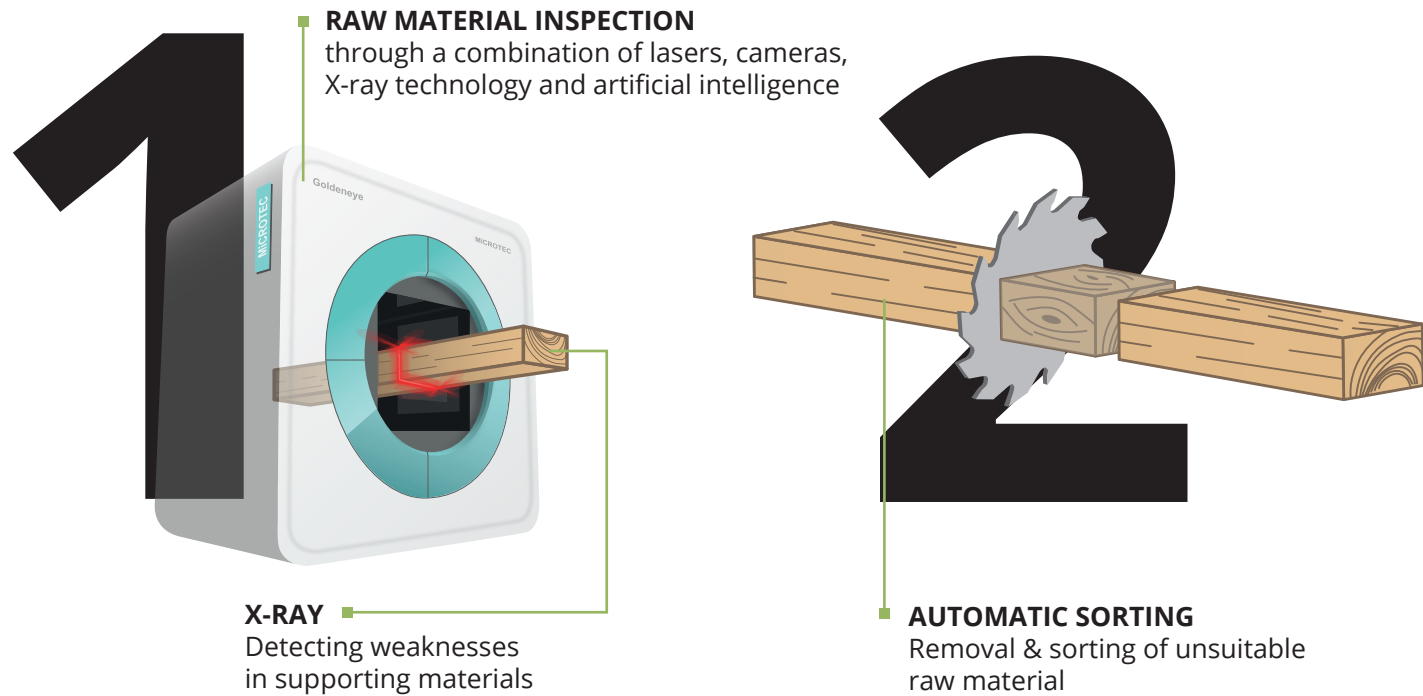


- STANDARD LENGTHS IN CM**
- 180, 245, 265, 290, 330, 360, 390, 450, 490, 590
 - Special lengths on request

Specifications are in mm unless otherwise stated.



YOUR SAFETY IN FOCUS





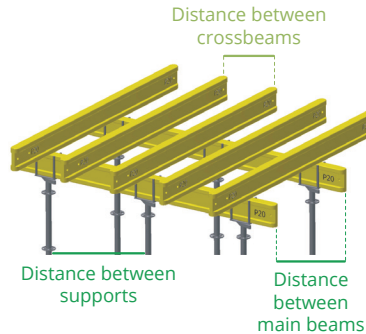
DETERMINATION OF SPANS

GIVEN/SELECTED

- Ceiling thickness
example: 35 cm having a total load of 11,17 kN/m²
- Crossbeam spacing
example: 0,63 m

REQUIRED

- Spacing between main beams
example: 2,25 m
- Distance between supports
example: 0,88 m



ESTABLISHED

- Determine the spacing between main beams based on the ceiling depth and the cross beam spacing
- - -> Distance between supports can be read in the value table (select the next smallest spacing between main beams)



DETERMINATION OF SPANS

ceiling depth cm	total load* KN/m²	crossbeam spacing (m)				spacing between main beams (m)								
		0,50	0,63	0,67	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	3,00	3,50
		spacing between main beams (m)				distance between supports (m)								
10	4,35	3,67	3,40	3,33	3,20	2,91	2,70	2,48	2,29	2,14	2,02	1,92	1,69	1,44
12	4,87	3,47	3,22	3,15	3,03	2,75	2,55	2,34	2,17	2,03	1,91	1,81	1,15	1,29
14	5,39	3,30	3,07	3,00	2,89	2,62	2,43	2,22	2,06	1,93	1,81	1,63	1,36	1,17
16	5,91	3,17	2,94	2,88	2,77	2,52	2,33	2,12	1,97	1,84	1,65	1,49	1,24	1,06
18	6,43	3,05	2,83	2,77	2,67	2,42	2,23	2,04	1,86	1,71	1,52	1,37	1,14	0,98
20	6,95	2,95	2,74	2,68	2,58	2,34	2,15	1,96	1,81	1,58	1,41	1,27	1,06	0,90
22	7,47	2,86	2,66	2,60	2,50	2,27	2,07	1,89	1,68	1,47	1,31	1,18	0,98	0,84
24	7,99	2,79	2,59	2,53	2,43	2,21	2,00	1,83	1,57	1,38	1,22	1,10	0,92	0,79
26	8,51	2,27	2,52	2,47	2,37	2,16	1,94	1,72	1,48	1,29	1,15	1,03	0,86	0,74
28	9,03	2,65	2,46	2,41	2,32	2,10	1,88	1,62	1,39	1,22	1,08	0,97	0,81	0,70
30	9,61	2,59	2,41	2,36	2,27	2,04	1,82	1,53	1,31	1,14	1,02	0,92	0,76	0,65
35	11,17	2,47	2,29	2,24	2,16	1,89	1,58	1,31	1,13	0,98	0,88	0,79	0,66	0,56
40	12,73	2,36	2,19	2,15	2,05	1,73	1,38	1,15	0,99	0,86	0,77	0,69	0,58	0,49
45	14,29	2,27	2,11	2,05	1,93	1,54	1,23	1,03	0,88	0,77	0,68	0,62	0,51	0,44
50	15,85	2,20	2,01	1,95	1,83	1,39	1,11	0,93	0,79	0,69	0,62	0,56	0,46	0,40
55	17,41	2,13	1,92	1,86	1,68	1,26	1,01	0,84	0,72	0,63	0,56	0,51	0,42	0,36
60	18,97	2,05	1,84	1,74	1,55	1,16	0,93	0,77	0,66	0,58	0,52	0,46	0,39	0,33
65	20,53	1,97	1,71	1,61	1,43	1,07	0,86	0,71	0,61	0,54	0,48	0,43	0,36	0,31
70	22,09	1,90	1,59	1,49	1,33	1,00	0,80	0,66	0,57	0,50	0,44	0,40	0,33	0,28
75	23,65	1,84	1,49	1,40	1,24	0,93	0,74	0,62	0,53	0,47	0,41	0,37	0,31	0,27
80	25,21	1,75	1,40	1,31	1,16	0,87	0,70	0,58	0,50	0,44	0,39	0,35	0,29	0,25
85	26,77	1,64	1,31	1,23	1,10	0,82	0,66	0,55	0,47	0,41	0,37	0,33	0,27	0,23
90	28,33	1,55	1,24	1,16	1,04	0,78	0,62	0,52	0,44	0,39	0,35	0,31	0,26	0,22
95	29,89	1,47	1,18	1,10	0,98	0,74	0,59	0,49	0,42	0,37	0,33	0,29	0,25	0,21
100	31,45	1,40	1,12	1,05	0,93	0,70	0,56	0,47	0,40	0,35	0,31	0,28	0,23	0,20

*incl. working load 1,5 kN/m²

I_y = 4181 cm⁴

A = 101 cm²

max. deflection in centre of field l/500

Note: The table is provided for provisional dimensioning and does not replace structural verifications.

TECHNICAL DATA



WOOD TYPE PEFC-certified: Spruce, Fir



WOOD MOISTURE 10% ± 2%

DIMENSIONAL TOLERANCE

Beam height ± 1,0 %
Flange height ± 1,5 %
Flange width ± 1,5 %
Web thickness ± 3,0 %

WEIGHT PER METER
P20 Standard 4,5 kg ± 1,5 %
P20 Premium 4,7 kg ± 1,5 %



STATICS

ACCORDING TO EN13377 **P20** **PERMISSIBLE**

SHEAR FORCE $V_k = 23,9 \text{ kN}$ Perm. Q = 11 kN

BENDING MOMENT $M_k = 10,9 \text{ kNm}$ Perm. M = 5 kNm

SUPPORT $R_{b,k} = 47,8 \text{ kN}$





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**STAY IN TOUCH
WITH US**

