



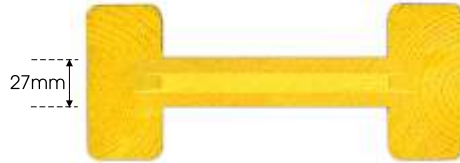
P20
formwork beam



P20 FORMWORK BEAM

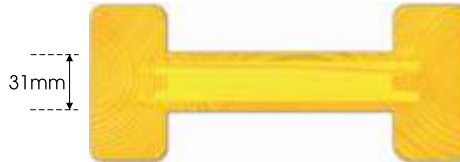
For the difficult working conditions at building sites:
Economical, safe and effective
For more than 12 years our family business is developing
and producing P20 formwork beams at our production
site in Polomka, Slovakia.

P20 STANDARD



Formwork beam produced according to European standard **EN13377** with solid 27mm 3-ply web. P20 Standard beams offer you a high level of product safety and an optimum cost effectiveness. They are easy to handle and proven in practice for efficient formwork construction.

P20 PREMIUM



Formwork beam produced according to European standard **EN13377** with extra strong 31mm 3-ply web. The strengthened web is unique on the market and grants durability for reliable formwork construction.



QUALITY THAT LASTS

ADVANTAGES

- High loading bearing capacity at low weight
- firm gluing (according to gluing certificate C)
- highest safety level due to automatic sorting of raw material

MARKING



Production date

Logo

Ü- Sign

EN 13377

Level M

Length details

P20 PROTECT

- Protect- cap made out of stable plastic
- Increased service life by reduced tear-outs at beams ends



blue



red



black



PRODUCT RANGE

P20 Standard
P20 Standard Protect
P20 Premium
P20 Premium Protect

BETTER SAFE,
THAN SORRY.



Produced and certified according to european norm EN13377.

Permanent monitoring by internal testing laboratory.

External quality control by authorized and certified german institute (eph Dresden):
LEVEL M

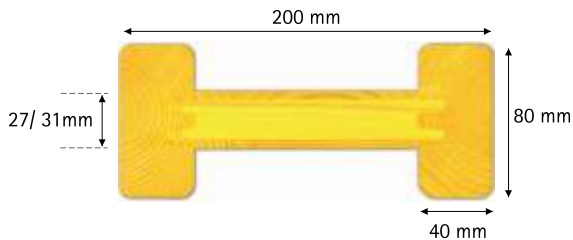


LENGTHS (CM)

180, 245, 265, 290, 330, 360, 390, 450, 490, 590
 > special lengths on demand

DIMENSIONS & TOLERANCES

	P20 STANDARD	P20 PREMIUM	TOLERANCE
BEAM HEIGHT	200 mm	200 mm	± 1,0%
FLANGE HEIGHT	40 mm	40 mm	± 1,5%
FLANGE WIDTH	80 mm	80 mm	± 1,5%
WEB THICKNESS	27 mm	31 mm	± 3,0%
WEIGHT/METER	4,5 kg	4,7 kg	± 1,5%



TECHNICAL SPECIFICATIONS

ACCORDING TO EN13377	CARRYING CAPACITY CHARACTERISTICS	
SHEARING FORCE	$V_k = 23,9 \text{ kN}$	zul. $Q = 11 \text{ kN}$
BENDING MOMENT	$M_k = 10,9 \text{ kNm}$	zul. $M = 5 \text{ kNm}$
SUPPORT	$R_{b,k} = 47,8 \text{ kN}$	

DETERMINATION OF SPANS

Given/ Selected:

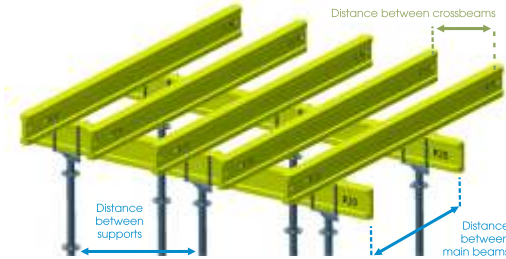
- Ceiling thickness (example below: 35cm having a total load of 11,17 kN/m²)
- Crossbeam spacing (example below: 0,63m)

Required:

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

Established:

- > Select the spacing between main beams according to your given ceiling depth and your selected crossbeam spacing
-> Choose the next smaller value for spacing between main beams in Table 2, verify the the permissible distance between supports for your given ceiling depth (check the load-bearing capacity of the supports)



		Determination of spans													
ceiling depth cm	total load* KN / m ²	1 crossbeam spacing (m)				2 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	1,51	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	1,89	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	2,72	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 $I_x = 4181 \text{ cm}^4$ $A = 101 \text{ cm}^2$ max. deflection in centre of field 1/500
 Note: the table is provided for provisional dimensioning, and does not replace structural verifications.



PRODUCTION

LOCATION

- Polomka, Slovakia
(member of european union)



MATERIAL

- Fine-pored, solid and firm timber
- All material is being scanned by X-Ray and assorted automatically for defects

LOGISTICS

- Best transport solutions for world-wide delivery
- Support at all international customs procedures
- Container loading according to phytosanitary standards ISPM 15/2005.





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