



Passion for timber

FORMWORK
BEAMS

PHILOSOPHY

The Pfeifer-Group is developing a new generation of timber formwork beams. With the PF20plus, we bring after intensive development and test phase, one of the best timber formwork beams on the market. Lighter, stronger, safer and more durable! The applications range from the ceiling on wall formwork, bridge and tunnel formwork to work platforms.

FORMWORK BEAMS PF20_{PLUS} | PF20

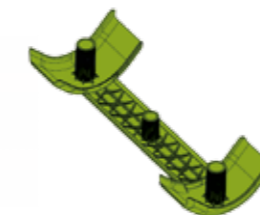
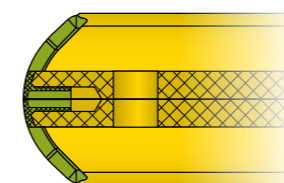


Features PF20_{PLUS}

- ≡ beam ends and protective cap are rounded
- ≡ entire the front page the cap protected
- ≡ shockproof
- ≡ high dimensional stability
- ≡ low shrinkage
- ≡ no risk of injury
- ≡ no sticking and no steel brackets necessary to secure the protective cap
- ≡ good mechanical properties the protective cap at high and low temperatures
- ≡ UV stabilizer to weather
- ≡ Fixing the cap is by dowels, so the front page will not weakened.

Features PF20

- ≡ beam ends are rounded
- ≡ entire the front page the cap protected to the special color stain
- ≡ protected from the weather
- ≡ compact, lightweight
- ≡ shockproof
- ≡ high dimensional stability
- ≡ low shrinkage
- ≡ no risk of injury



PF20



FACTS



Capacity & capability

The Pfeifer formwork beams are being produced according to the highest quality standard at two European locations. With a production capacity of 9 million running meter, we are one of Europe's leading manufacturers. All formwork beam sizes are continuously in stock for optimized and short notice service for our customers.

Quality

Our internal quality control system ensures compliance with our high standards of quality. Furthermore, the quality of our production is also continuously monitored by two external organizations: Institute MPA Stuttgart and the Holzforschung Austria Wien.

Environment

We harvest our timber from sustainably managed forests. The use of wood binds the harmful greenhouse-gas CO₂ long term and thus has a strong emission-reducing effect.

Logistics

Our products are available in more than 75 countries around the world, and we therefore have a well-established logistical network.

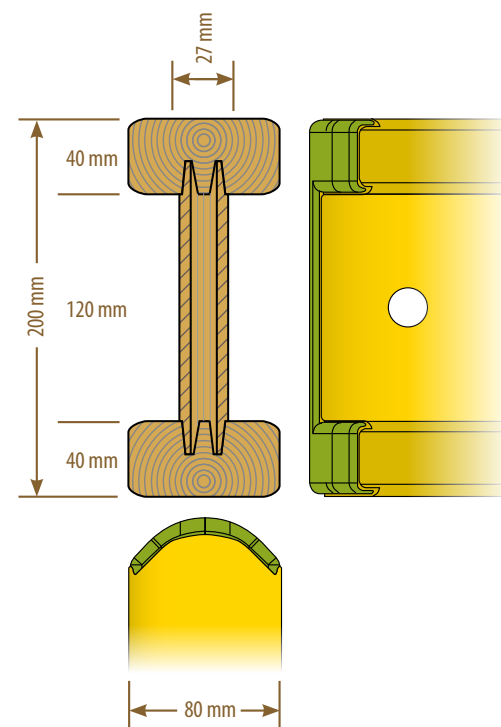


ASSEMBLY

Product range

Formwork Beams PF20plus | PF20

- ≡ Length: 190, 245, 250, 265, 275, 290, 300, 330, 360, 390, 450, 490, 590 cm
Special length to 11,90 m possible
- ≡ Black thickness: 27 mm
- ≡ Weight: 4,5 kg/running meters
- ≡ Wood moisture: 12 % +/- 4 % at delivery
- ≡ Package units: 50 or 100 pieces



Formwork Beams PF20plus | PF20

Allowable Values

- ≡ Shear force Q = 11 kN
- ≡ A support reaction A = 22 kN
- ≡ Bending moment M = 5 kNm

Characteristic limit

- ≡ Lateral force $V_k = 23,9 \text{ kN}$
- ≡ Contact resistance $R_{b,k} = 47,8 \text{ kN}$
- ≡ Bending moment $M_k = 10,9 \text{ kNm}$
- ≡ Rigidity I $E_1 = 450 \text{ kNm}^2$

Monitoring as per M lt. EN13377
DIN V 20000-2
External monitoring by MPA Stuttgart

Measurement table

Example:

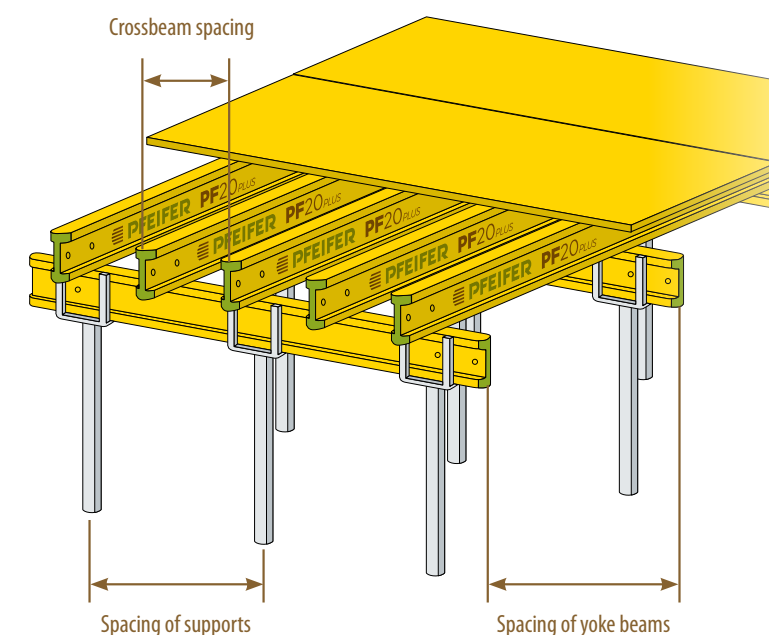
Given: Ceiling thickness (18 cm) + crossbeam spacing (75 cm)

Sought: Yoke beam spacing + support spacing

- 1 Ceiling thickness: 18 cm
- 2 Crossbeam spacing: 75 cm
- 3 Permissible yoke-beam spacing according to table 1 = 2,65 m
- 4 Select same or next smaller yoke-beam spacing in table 2 = 2,5 m
- 5 Choose value 2,50 in table 2, choose the value for ceiling thickness (18 cm) and read the permissible support spacing value : 1,36 m
- 6 Attention: The corresponding bearing capacity of the supports must be verified.

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

The deflection of the beams is limited to L/500.
Live load 1,5 kN/m² or 20 % of concrete weight.



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Pellets & briquettes



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