

pfeifergroup.com





Capacity & capability

At our Imst (A) location we produce formwork beams according to high quality standards. With a production capacity of approx. 8 million linear metres we are considered 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 sustainable 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 89 countries around the world, and we therefore have a well-established logistical network.





The mark of responsible forestry





Features PF20_{PLUS}

- beam ends and protective cap are rounded
- the entire face side is protected by the cap
- shock proof €
- ≡ high dimensional stability
- low shrinkage €
- no risk of injury
- no sticking and no steel brackets necessary to secure the protective cap
- **■** good mechanical properties of the protective cap at high and low temperatures
- **■** UV stabilisers against weathering effects in the protecting cap

Features **PF**20

- beam ends are rounded
- the entire face side is protected against climatic influence by a special face side stain
- compact, light weight
- shock proof
- high dimensional stability
- low shrinkage
- low risk of injury

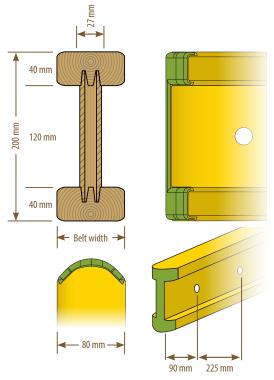


ASSEMBLY

Product range

Formwork Beams PF20plus | PF20

- Length: 190, 245, 250, 265, 275, 290, 300, 330, 360, 390, 450, 490, 590 cm, Special lengths possible up to 11.90 m
- PF20*plus*: protection cap possible up to9 m over 9 m only cut straight
- PF20: rounding with sealing possible up to9 m over 9 m only cut straight
- Black thickness: 27 mm
- Weight: approx. 4.5 kg/running meters
- Wood moisture: 12 % +/- 2 % at delivery
- Package units: 50 or 100 pieces
- Size tolerances: Height H = 200+/- 2 mm;
 Length tolerance: indicated length +/-10 mm



Formwork Beams PF20plus | PF20 Characteristic limit values according to EN 13377

Permissible loads for plate girder according to EN 13377

■ Lateral force Vk = 23.9 kN■ Contact resistance Rb,k = 47.8 kN■ Bending moment Mk = 10.9 kNm■ Rigidity I $E_1 = 450 \text{ kNm}^2$

Measurement table

Example:

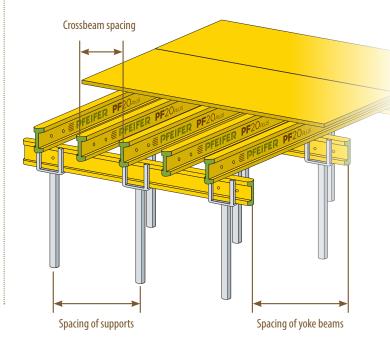
Given: Ceiling thickness (18 cm) + crossbeam spacing (75 cm)

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.

		Table 1 Table 2
Floor thickness (cm)		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
	Total load kN/m²	Max. distance between goke-beams (m) cross 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, <mark>7</mark> 9 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/m 2 or 20 % of concrete weight.





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