



NEW!
PU- bonded
Beam

smartBEAMplus 20P

-  exclusively available from specialised traders
-  durable due to PU- bonded end of the beam
-  secured high load capacity according to EN 13377

smartBEAMplus 20P

Your advantages:

- durable due to an one-piece PU-bonded end of the beam
- PU-bonded beam end protects against moisture penetration and does not splinter
- made in Austria - exclusively available from specialised traders
- all beam flanges are proof-loaded



Form-on smartBEAMplus 20P	PU	kg	Art. no.
Form-on smartBEAMplus 20P 180	100	9.4	620142000
Form-on smartBEAMplus 20P 245	100	12.7	620143000
Form-on smartBEAMplus 20P 265	100	13.8	620144000
Form-on smartBEAMplus 20P 290	100	15.1	620145000
Form-on smartBEAMplus 20P 330	100	17.2	620146000
Form-on smartBEAMplus 20P 360	100	18.7	620147000
Form-on smartBEAMplus 20P 390	100	20.3	620148000
Form-on smartBEAMplus 20P 450	100	23.4	620149000
Form-on smartBEAMplus 20P 490	100	25.5	620150000
Form-on smartBEAMplus 20P 590	60	30.7	620151000

Technical specifications:

Web: height = 20 cm
Flange: height = 4.0 cm, width = 8.0 cm
Moment (M): 5 kNm **Shear force (Q):** 11 kN
Rigidity (E x J): 450 kNm² **Certification:** EN 13377

Example:

- ❶ Floor thickness: 20 cm | ❷ Secondary beam spacing: 0.75 m |
- ❸ equals primary beam spacing as per Table 1: 2.61 m |
- ❹ select primary beam spacing ≤ 2.61 in Table 2 (= 2.50 m) |
- ❺ permissible prop spacing at 20 cm floor thickness in Table 2: 1.19 m

Floor thickness (cm)	Floor load * (kN/m ²)	Table 1 Max. perm. primary beam spacing (m) for secondary beam spacing (m) of						Table 2 Max. perm. prop spacing (m) for selected secondary beam spacing							
		0.500	0.625	0.667	0.750	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50
10	4.3	3.69	3.43	3.35	3.22	2.93	2.72	2.50	2.32	2.17	2.04	1.88	1.71	1.57	1.34
12	4.7	3.49	3.24	3.17	3.05	2.77	2.57	2.37	2.20	2.05	1.87	1.69	1.53	1.41	—
14	5.2	3.33	3.09	3.03	2.91	2.65	2.46	2.26	2.09	1.91	1.70	1.53	1.39	1.27	—
16	5.7	3.20	2.97	2.91	2.79	2.54	2.36	2.16	2.00	1.75	1.55	1.40	1.27	1.16	—
18	6.2	3.08	2.86	2.80	2.69	2.45	2.27	2.07	1.84	1.61	1.43	1.29	1.17	—	—
20	6.7	2.98	2.77	2.71	2.61	2.37	2.18	1.99	1.70	1.49	1.33	1.19	1.08	—	—
22	7.2	2.90	2.69	2.63	2.53	2.30	2.11	1.85	1.59	1.39	1.24	1.11	1.01	—	—
24	7.7	2.82	2.61	2.56	2.46	2.24	2.04	1.73	1.49	1.30	1.16	1.04	0.95	—	—
26	8.2	2.75	2.55	2.49	2.40	2.18	1.96	1.63	1.40	1.22	1.09	0.98	—	—	—
28	8.7	2.68	2.49	2.44	2.34	2.13	1.85	1.54	1.32	1.15	1.03	0.92	—	—	—
30	9.2	2.62	2.44	2.38	2.29	2.08	1.75	1.46	1.25	1.09	0.97	0.87	—	—	—
35	10.5	2.50	2.32	2.27	2.18	1.91	1.52	1.27	1.09	0.95	0.85	—	—	—	—

* Based on EN 12812, numbers refer to solid concrete floor slabs with live loads of 0.75 kN/m² and min. variable loads of 10%, min. 0.75 kN/m² but not to exceed 1.75 kN/m² (with 2.5 kN/m² fresh concrete slab bulk density). The mid-span deflection has been limited to l/500. Significantly lower floor loads are produced in hollow floor slabs.



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