






NEW!
PU-bonded
Beam

Form-on smartBEAMplus 20N

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

Form-on[®]



Form-on smartBEAMplus 20N

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 20N	PU	kg	Art. no.
Form-on smartBEAMplus 20N 180	100	8.5	620122000
Form-on smartBEAMplus 20N 245	100	11.5	620123000
Form-on smartBEAMplus 20N 265	100	12.5	620124000
Form-on smartBEAMplus 20N 290	100	13.6	620125000
Form-on smartBEAMplus 20N 330	100	15.5	620126000
Form-on smartBEAMplus 20N 360	100	16.9	620127000
Form-on smartBEAMplus 20N 390	100	18.3	620128000
Form-on smartBEAMplus 20N 450	100	21.2	620129000
Form-on smartBEAMplus 20N 490	100	23.0	620130000
Form-on smartBEAMplus 20N 590	60	27.7	620131000

Technical specifications:

Web: height = 20 cm

Flange: height = 4.0 cm, width = 8.0 cm

Moment (M): 5 kNm

Shear force (Q): 11 kN

Regidity (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

Table 1		Table 2													
Floor thickness (cm)	Floor load * (kN/m ²)	Max. perm. primary beam spacing (m) for secondary beam spacing** (m) of				Max. perm. prop spacing (m) for selected secondary beam spacing (m) of									
		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. ** Space the secondary beams in accordance with the type of formwork sheeting (load-bearing capacity and sheet format) that has been chosen.

