

Form-on smartBEAMplus 20N



Long service life thanks to
moulded PU beam end

Reliable high load capacity
according to EN13377

Lightweight at 4.4 kg/rm for
effortless handling

Lower transport costs due
to low weight



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Form-on

Form-on smartBEAMplus 20N

Your advantages:

 Only 4.4 kg/lm - less weight thanks to reduced web thickness, equally strong performance, easier handling.

 Reduction of damage at the end of the beam due to reinforcement made of polyurethane.

 High stability thanks to optimised finger-jointing.

 Reliably high load capacity across the entire beam length thanks to homogeneous web material.

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Length	P.U.	kg	Art. no.
180	100	7.9	620122000
245	100	10.8	620123000
265	100	11.7	620124000
290	100	12.8	620125000
330	100	14.5	620126000
360	100	15.8	620127000
390	100	17.2	620128000
450	100	19.8	620129000
490	100	21.6	620130000
590	60	26.0	620131000

TECHNICAL SPECIFICATIONS

Web: w = 20 cm

Flange: w = 4 cm, h = 8 cm

Moment (M): 5 kNm

Rigidity (E x J): 450 kNm²

Shear force (Q): 11 kN

Certification: EN13377

EXAMPLE

- 1 Floor thickness: 20 cm | 2 Secondary beam spacing: 0.75 m
- 3 equals primary beam spacing as per Table 1: 2.61 m
- 4 Select primary beam spacing ≤ 2.61 in Table 2 (= 2.50 m)
- 5 permissible prop spacing at 20 cm slab thickness in Table 2: 1.19 m



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TABLE 1

Slab thickness (cm)	Slab load* (kN/m ²)	Max. perm. primary beam spacing (m) for secondary beam spacing** (m) of				Max. perm. prop spacing (m) for selected primary beam spacing (m) of									
		0.500	0.625	0.667	0.750 ²	1.00	1.25	1.50	1.75	2.00	2.25	2.50 ⁴	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 ¹	6.7	2.98	2.77	2.71	2.61 ³	2.37	2.18	1.99	1.70	1.49	1.33	1.19 ⁵	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	-	-	-	-

1) In accordance with EN12812, this allows for a service load of 0.75 kN/m² and a variable load of 10% of a massive concrete floor-slab, totalling at least 0.75 kN/m² but no more than 1.75 kN/m² (assuming a fresh-concrete density of 2 500 kg/m³). Mid-span deflection has been limited to l/500. In the case of cavity flat-slab floors, significantly lower slab loads occur.

2) Form-on beam to EN13377. 3) Form-on prop with a permitted loading capacity of ≥ 20 kN. ** Space the secondary beams in accordance with the type of formwork sheeting (load-bearing capacity and sheet format) that has been chosen.

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Form-on GmbH

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Subject to change in the course of technical development.