

Form-on smartBEAM 20N



Reliable high load capacity
according to EN13377

High stability due to
homogeneous web material

Lightweight at 4.4 kg/rm for
effortless handling

Lower transport costs due
to low weight



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Form-on

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Your advantages:

-  Reliably high load capacity across the entire beam length thanks to homogeneous web material.
-  Secured component load capacity, as all of the flanges are machine stress-graded and load-tested.
-  Consistent product characteristics owing to high dimensional stability.
-  Multiple savings compared to squared timber due to improved load capacity combined with lower weight.

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Length	P.U.	kg	Art. no.
180	100	7.9	620019000
245	100	10.8	620020000
265	100	11.7	620022000
290	100	12.8	620023000
330	100	14.5	620024000
360	100	15.8	620025000
390	100	17.2	620026000
450	100	19.8	620027000
490	100	21.6	620028000
590	60	26.0	620029000

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 thick-ness (cm)	Slab load* (kN/m²)	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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