

Form-on smartBEAM 20N



Reliable high load capacity
according to EN13377

High stability due to
homogeneous web material

Lightweight at 4.4 kg/rm or
3 lbs./ft. for effortless handling

Lower transport costs due
to low weight



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Form-on USA

Form-on smartBEAM 20N

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 cm/ft.	P.U.	kg/lbs.	Art. no.
180/5'10"	100	7.9/17.4	620019000
245/8'0"	100	10.8/23.8	620020000
265/8'3"	100	11.7/25.8	620022000
290/9'6"	100	12.8/28.2	620023000
330/10'9"	100	14.5/32.0	620024000
360/11'9"	100	15.8/34.8	620025000
390/12'9"	100	17.2/37.9	620026000
450/14'9"	100	19.8/43.6	620027000
490/16'0"	100	21.6/47.6	620028000
590/19'4"	60	26.0/57.3	620029000

TECHNICAL SPECIFICATIONS

Web: w = 20 cm	Flange: w = 4 cm, h = 8 cm
Moment (M): 5 kNm/3.69 kip ft.	Shear force (Q): 11 kN/2.473 kip
Rigidity (E x J): 450 kNm ² /156,800 kip in ²	Certification: EN13377

EXAMPLE

- Floor thickness: 20 cm | 2 Secondary beam spacing: 0.75 m
- equals primary beam spacing as per Table 1: 2.61 m
- Select primary beam spacing ≤ 2.61 in Table 2 (= 2.50 m)
- 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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Subject to change in the course of technical development.