

Form-on smartBEAM 20P



Reliable high load capacity
according to EN13377

High stability due to
homogeneous web material

Pressboard web preferred
in very dry climates

100 % tensile test of flanges



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Form-on USA

Form-on smartBEAM 20P

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	9.4/20.7	620038000
245/8'0"	100	12.7/28.0	620039000
265/8'3"	100	13.8/30.4	620032000
290/9'6"	100	15.1/33.3	620033000
330/10'9"	100	17.2/37.9	620034000
360/11'9"	100	18.7/41.2	620035000
390/12'9"	100	20.3/44.7	620036000
450/14'9"	100	23.4/51.6	620037000
490/16'0"	100	25.5/56.2	620040000
590/19'4"	60	30.7/67.7	620041000

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 thickness (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	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	-	-	-	-	

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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