



Now available:
**Remarkably
Lightweight**

Form-on smartBEAMplus 20N

-  remarkably lightweight for effortless handling & costs
-  less transport costs due to less weight
-  unmatched durability due to PU-bonded beam end
-  secured high load capacity according to EN 13377

Form-on[®] based in the USA

Form-on smartBEAMplus 20N

Your advantages:

- **Enhanced Stability:** Experience top-tier stability with our optimal finger-joint.
- **Innovation:** Embrace innovation with the latest lightweight beam technology now available on the market.
- **Effortless Handling:** Lightweight beams at 2.95 lbs/ft make transportation and installation a breeze.
- **Durability:** Unmatched durability with exclusive PU-bonded beam ends.
- **Green Solution:** Choose an environmentally responsible option that not only saves on resources but also reduces your carbon foot print.



Form-on smartBEAMplus 20N	PU	kg/lbs.	Art. no.
Form-on smartBEAMplus 20N 180 (5'10")	100	7.9/17.42	620122000
Form-on smartBEAMplus 20N 245 (8')	100	10.8/23.81	620123000
Form-on smartBEAMplus 20N 265 (8'3")	100	11.7/25.79	620124000
Form-on smartBEAMplus 20N 290 (9'6")	100	12.8/28.22	620125000
Form-on smartBEAMplus 20N 330 (10'9")	100	14.5/31.97	620126000
Form-on smartBEAMplus 20N 360 (11'9")	100	15.8/34.84	620127000
Form-on smartBEAMplus 20N 390 (12'9")	100	17.2/37.92	620128000
Form-on smartBEAMplus 20N 450 (14'9")	100	19.8/43.65	620129000
Form-on smartBEAMplus 20N 490 (16')	100	21.6/47.63	620130000
Form-on smartBEAMplus 20N 590 (19'4")	60	26.0/57.76	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

Rigidity (E x J): 450 kNm²

Certification: EN 13377

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 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.

