



NEW!
PU-bonded
Beam

Now available!

warehouse Miami, FL

Form-on smartBEAMplus P 265 (8'8")

Form-on smartBEAMplus P 290 (9'6")

Form-on smartBEAMplus P 390 (12'9")

Form-on smartBEAMplus P 490 (16'1")

Form-on smartBEAMplus P 590 (19'4")

Form-on smartBEAMplus 20P

-  long life span
-  durable due to PU-bonded end of the beam
-  secured high load capacity according to EN 13377

Form-on[®] based in the USA

Form-on smartBEAMplus 20P

Your benefits:

- durable due to an one-piece PU-bonded end of the beam
- PU-bonded beam end protects against moisture penetration and does not split
- all beam flanges are proof-loaded
- all the beam flanges are load tested as per EN 13377



Technical specifications:

Web: height = 20 cm

Flange: height = 4.0 cm, width = 8.0 cm

Moment (M): 5 kNm

Shear force (Q): 11 kN

Regidity (E x J): 450 kNm²

Certification: EN 13377

Form-on smartBEAM 20plus	P.U.	kg/lbs.	Art.-Nr.
Form-on smartBEAMplus 20P 180 (5'10")	100	9.4/20.7	620142000
Form-on smartBEAMplus 20P 245 (8')	100	12.7/28.0	620143000
Form-on smartBEAMplus 20P 265 (8'8")	100	13.8/30.4	620144000
Form-on smartBEAMplus 20P 290 (9'6")	100	15.1/33.3	620145000
Form-on smartBEAMplus 20P 330 (10'10")	100	17.2/37.9	620146000
Form-on smartBEAMplus 20P 360 (11'9")	100	18.7/41.2	620147000
Form-on smartBEAMplus 20P 390 (12'9")	100	20.3/44.7	620148000
Form-on smartBEAMplus 20P 450 (14'9")	100	23.4/51.6	620149000
Form-on smartBEAMplus 20P 490 (16'1")	100	25.5/56.2	620150000
Form-on smartBEAMplus 20P 590 (19'4")	60	30.7/67.7	620151000

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	—	—	—	—

1) In accordance with EN 12812, 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 EN 13377. 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.

