06/2022 en - auswood

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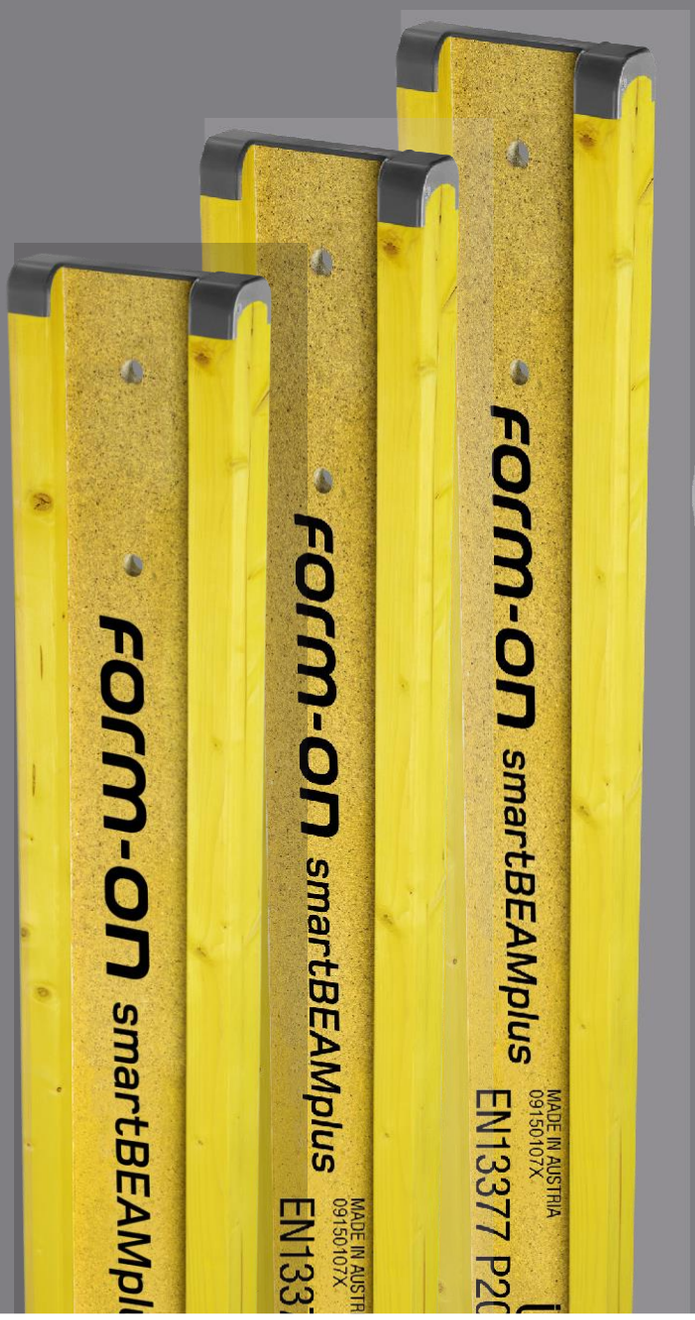

NEW!
PU- bonded
Beam

smartBEAMplus 20P

- exclusively available from specialised traders
- durable due to PU- bonded end of the beam
- secured high load capacity according to EN 13377

smartBEAMplus 20P

Your advantages:

- durable due to an one-piece PU-bonded end of the beam
- PU-bonded beam end protects against moisture penetration and does not splinter
- made in Austria - exclusively available from specialised traders
- all beam flanges are proof-loaded

Form-on smartBEAMplus 20P	PU	kg	Art. no.
Form-on smartBEAMplus 20P 180	100	9.4	620142000
Form-on smartBEAMplus 20P 245	100	12.7	620143000
Form-on smartBEAMplus 20P 265	100	13.8	620144000
Form-on smartBEAMplus 20P 290	100	15.1	620145000
Form-on smartBEAMplus 20P 330	100	17.2	620146000
Form-on smartBEAMplus 20P 360	100	18.7	620147000
Form-on smartBEAMplus 20P 390	100	20.3	620148000
Form-on smartBEAMplus 20P 450	100	23.4	620149000
Form-on smartBEAMplus 20P 490	100	25.5	620150000
Form-on smartBEAMplus 20P 590	60	30.7	620151000

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

Example:
❶ Floor thickness: 20 cm | ❷ Secondary beam spacing: 0.75 m |
❸ equals primary beam spacing as per Table 1: 2.61 m |
❹ select primary beam spacing ≤ 2.61 in Table 2 (= 2.50 m) |
❺ permissible prop spacing at 20 cm floor thickness in Table 2: 1.19 m

Table 1		Table 2													
Floor thickness (cm)	Floor load * (kN/m²)	Max. perm. primary beam spacing (m) for secondary beam spacing (m) of				Max. perm. prop spacing (m) for selected secondary beam spacing									
		0.500	0.625	0.667	0.750 ❷	1.00	1.25	1.50	1.75	2.00	2.25	2.50 ❹	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 ❶	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 ❸	2.37	2.18	1.99	1.70	1.49	1.33	1.19 ❺	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.

AUSWOOD

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H20 BEAMS