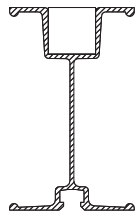
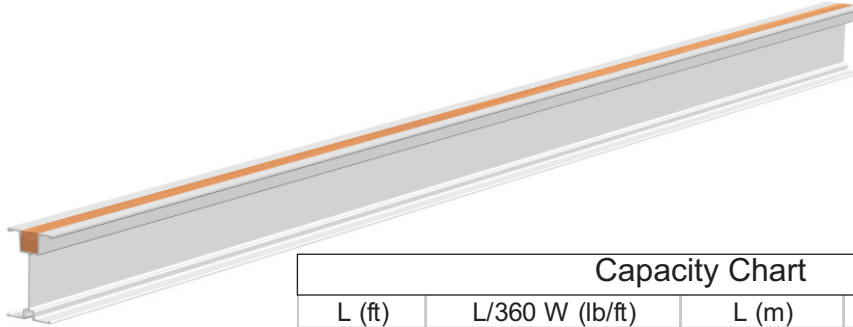


PRODUCT DATA SHEET

Std. Aluminum Beam 6.5 in / 165 mm H.



Max. Cap. at end
reaction 5,100 lb.

Capacity Chart

L (ft)	L/360 W (lb/ft)	L (m)	L/360 W (KN/m)
3'-0"	3100	0.914	45.351
3'-6"	3100	1.067	45.351
4'-0"	3100	1.219	45.351
4'-6"	2953	1.372	43.203
5'-0"	2152	1.524	31.495
5'-6"	1617	1.676	23.663
6'-0"	1245	1.829	18.226
6'-6"	979	1.981	14.335
7'-0"	784	2.134	11.478
7'-6"	638	2.286	9.332
8'-0"	525	2.438	7.689
8'-6"	438	2.591	6.411
9'-0"	369	2.743	5.400
9'-6"	313	2.896	4.592
10'-0"	269	3.048	3.937
10'-6"	232	3.200	3.401
11'-0"	202	3.353	2.958
11'-6"	176	3.505	2.598
12'-0"	155	3.657	2.278
12'-6"	137	3.810	2.016
13'-0"	122	3.962	1.792
13'-6"	109	4.115	1.600
14'-0"	98	4.267	1.435

NOTES:

* Deflection limit of L/360




* Safety factor on bending & shear 2.2 : 1

Patent Pending



NEW!
PU-bonded
Beam

Form-on smartBEAMplus 20P

-  exclusively available from specialised traders
-  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 splinter
- made in Austria - exclusively available from specialised traders
- all beam flanges are proof-loaded



Form-on smartBEAM 20	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 (8'3")	100	13.8/30.4	620144000
Form-on smartBEAMplus 20P 290 (9'6")	100	15.1/33.3	620145000
Form-on smartBEAMplus 20P 330 (10'9")	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')	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 \leq 2.61 in Table 2 (= 2.50 m) |
- 5 permissible prop spacing at 20 cm floor thickness in Table 2: 1.19 m

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

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.