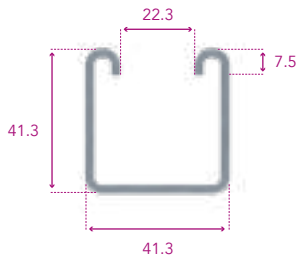
Deep Channel Slotted

- Steel with a Minimum yield strength 280 N/mm².
- Beams are assumed to be simply supported.
- Load and deflection are calculated using a safety factor of 1.6 and an allowable stress of 175 N/mm².
- Results given are for Pre-galvanised steel.
- Beam loads are calculated from the column face and effective length in BS5950.
- The tables show:
  1. The max safe working load,
  2. the load to give 1-200 deflection,
  3. load to give 1-360 deflection - the deflection used will depend on the installation designer.
- This also applies to Point and UDL loads.

Fitting Type: IC-CNL-D-S **Part Number: IC-CNL-D-S-SL☐-⬡**



Slots 26 x 13 @ 50mm Pitch

Sectional Properties

CSA (mm²)	Ixx (mm⁴)	Zxx (mm⁴)	Weight (kg/m)	Yield (N/mm²)
248.7	60743	2860	2.59	280

☐ = Select a Channel Length* ⬡ = Select a Finish

Finishes & Materials:

QQ SS GM

Safe Working Load Table

Span (m)	Uniformally Distributed Load				Point Load				Column Load
	Safe Working Load		Deflection Limit		Safe Working Load		Deflection Limit		Safe Axial Load (kg)
	Load (kg/m)	Def (mm)	Span/200 (kg)	Span/360 (kg)	Load (kg)	Def (mm)	Span/200 (kg)	Span/360 (kg)	
0.8	781.28	2.96	781.28	585.17	312.51	2.37	312.51	292.59	1608.53
1	499.17	4.63	499.17	298.32	249.58	3.71	249.58	186.45	1488.99
1.2	345.92	6.67	310.86	171.53	207.55	5.35	207.55	128.65	1352.75
1.4	253.52	9.08	194.79	107.05	177.46	7.28	170.44	93.67	1197.92
1.6	193.54	11.87	129.62	70.84	154.83	9.52	129.62	70.84	1055.63
1.8	152.43	15.02	90.26	48.97	137.18	12.07	101.54	55.09	930.01
2	123.01	18.56	65.08	34.99	123.01	14.92	81.35	43.73	821.31
2.2	101.25	22.46	48.24	25.63	111.38	18.08	66.33	35.24	728.01
2.4	84.70	26.74	36.56	19.14	101.64	21.56	54.83	28.71	648.06
2.6	71.82	31.40	28.19	14.49	93.37	25.34	45.81	23.55	579.44
2.8	61.60	36.44	22.05	11.08	86.24	29.45	38.58	19.39	520.34
3	53.36	41.86	17.43	8.51	80.04	33.88	32.68	15.97	469.22
3.2	46.61	47.66	13.90	6.55	74.57	38.63	27.80	13.11	424.79
3.4	41.02	53.84	11.15	5.03	69.73	43.72	23.70	10.68	385.97
3.6	36.33	60.40	8.98	3.82	65.39	49.14	20.20	8.59	351.90
3.8	32.36	67.35	7.24	2.85	61.49	54.89	17.20	6.78	321.85
4	28.98	74.69	5.83	2.07	57.95	60.99	14.58	5.18	295.21
4.2	26.06	82.41	4.68	1.43	54.73	67.44	12.29	3.75	271.51
4.4	23.54	90.53	3.73	0.90	51.78	74.24	10.25	2.48	250.32
4.6	21.33	99.04	2.93	0.46	49.07	81.41	8.43	1.32	231.30
4.8	19.40	107.94	2.27	0.09	46.56	88.93	6.80	0.27	214.17
5	17.69	117.25	1.70	—	44.23	96.83	5.32	—	198.68