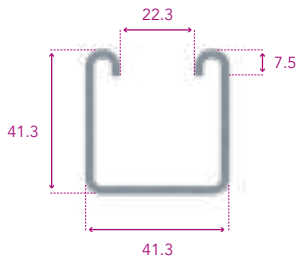


## Deep Channel Plain

- Steel with a Minimum yield strength 280 N/mm<sup>2</sup>.
- 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/mm<sup>2</sup>.
- 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-P**

**Part Number: IC-CNL-D-P-SL□-○**



### Sectional Properties

CSA (mm <sup>2</sup> )	I <sub>xx</sub> (mm <sup>4</sup> )	Z <sub>xx</sub> (mm <sup>3</sup> )	Weight (kg/m)	Yield (N/mm <sup>2</sup> )
336.25	71450	3071	2.68	280

□ = Select a Channel Length\* ○ = Select a Finish

Finishes & Materials:



### Safe Working Load Table

Span (m)	Uniformly Distributed Load				Point Load				Column Load Safe Axial Load (kg)
	Safe Working Load		Deflection Limit		Safe Working Load		Deflection Limit		
	Load (kg/m)	Def (mm)	Span/200 (kg)	Span/360 (kg)	Load (kg)	Def (mm)	Span/200 (kg)	Span/360 (kg)	
0.8	840.23	2.92	840.23	638.61	336.09	2.34	336.09	319.31	1,953.12
1	536.89	4.56	536.89	325.69	268.45	3.66	268.45	203.55	1,805.89
1.2	372.12	6.57	339.36	187.37	223.27	5.27	223.27	140.52	1,639.63
1.4	272.77	8.95	212.74	117.02	190.94	7.18	186.14	102.39	1,448.32
1.6	208.28	11.69	141.65	77.52	166.62	9.38	141.65	77.52	1,272.88
1.8	164.07	14.81	98.7	53.66	147.66	11.89	111.04	60.37	1,118.52
2	132.45	18.29	71.24	38.41	132.45	14.7	89.05	48.01	985.47
2.2	109.05	22.13	52.87	28.2	119.95	17.81	72.69	38.78	871.72
2.4	91.25	26.35	40.12	21.12	109.5	21.23	60.18	31.68	774.62
2.6	77.4	30.94	30.99	16.05	100.63	24.96	50.36	26.08	691.56
2.8	66.42	35.91	24.29	12.32	92.98	29	42.51	21.57	620.24
3	57.55	41.24	19.26	9.53	86.32	33.36	36.11	17.87	558.71
3.2	50.29	46.95	15.4	7.39	80.47	38.03	30.81	14.78	505.37
3.4	44.28	53.04	12.4	5.72	75.28	43.03	26.36	12.16	458.87
3.6	39.24	59.5	10.03	4.41	70.63	48.35	22.58	9.91	418.14
3.8	34.98	66.35	8.14	3.35	66.46	54.01	19.33	7.96	382.29
4	31.34	73.57	6.6	2.5	62.67	60	16.51	6.25	350.57
4.2	28.2	81.18	5.34	1.8	59.22	66.33	14.03	4.72	322.39
4.4	25.49	89.17	4.31	1.22	56.07	73	11.84	3.36	297.23
4.6	23.12	97.54	3.44	0.74	53.17	80.03	9.89	2.13	274.69
4.8	21.04	106.3	2.71	0.34	50.49	87.41	8.14	1.01	254.41
5	19.2	115.45	2.1	—	48	95.15	6.55	—	236.1