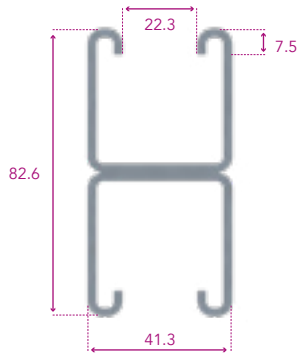
Deep Back to Back Channel

- 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-BBD-P | **Part Number: IC-CNL-BBD-P-SL☐-⬡**



Sectional Properties

CSA (mm²)	Ixx (mm⁴)	Zxx (mm⁴)	Weight (kg/m)	Yield (N/mm²)
672.5	375152	9083	5.35	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	2089.79	1.44	2089.79	2089.79	835.91	1.15	835.91	835.91	11796.81
1	1335.76	2.24	1335.76	1335.76	667.88	1.80	667.88	667.88	10406.84
1.2	926.16	3.23	926.16	926.16	555.70	2.59	555.70	555.70	8904.39
1.4	679.19	4.40	679.19	600.01	475.43	3.52	475.43	475.43	7435.66
1.6	518.89	5.75	518.89	400.22	415.12	4.61	415.12	400.22	6123.99
1.8	409.00	7.27	409.00	279.52	368.10	5.84	368.10	314.46	5043.75
2	330.39	8.98	330.39	202.35	330.39	7.21	330.39	252.93	4179.70
2.2	272.22	10.87	272.22	150.72	299.45	8.74	299.45	207.24	3493.94
2.4	227.99	12.94	211.00	114.88	273.59	10.41	273.59	172.32	2948.04
2.6	193.56	15.20	164.83	89.23	251.63	12.24	251.63	145.00	2510.05
2.8	166.24	17.63	130.92	70.40	232.74	14.21	229.12	123.19	2155.20
3	144.21	20.25	105.46	56.25	216.31	16.34	197.74	105.47	1864.79
3.2	126.17	23.05	85.97	45.42	201.87	18.62	171.94	90.84	1624.75
3.4	111.22	26.03	70.80	36.99	189.08	21.06	150.45	78.61	1424.49
3.6	98.70	29.20	58.81	30.33	177.65	23.66	132.33	68.25	1255.96
3.8	88.09	32.56	49.22	25.00	167.38	26.41	116.90	59.39	1113.00
4	79.04	36.10	41.45	20.69	158.09	29.33	103.62	51.72	990.83
4.2	71.25	39.82	35.09	17.15	149.63	32.41	92.11	45.03	885.71
4.4	64.50	43.73	29.83	14.23	141.91	35.65	82.04	39.14	794.69
4.6	58.61	47.83	25.45	11.80	134.81	39.06	73.17	33.92	715.44
4.8	53.44	52.12	21.77	9.75	128.27	42.63	65.31	29.26	646.06
5	48.88	56.60	18.65	8.02	122.21	46.38	58.29	25.07	585.02

HOW TO ORDER IC – CNL – BBS – S – SL3* – GM

IC: System Type; CNL: Product Group; BBS: Type; S: Slotting; SL3*: Channel Length; GM: Finish

*Straight Channel is available in: SL3 (3000mm), SL6 (6000mm) (For non-standard lengths please contact our sales team)