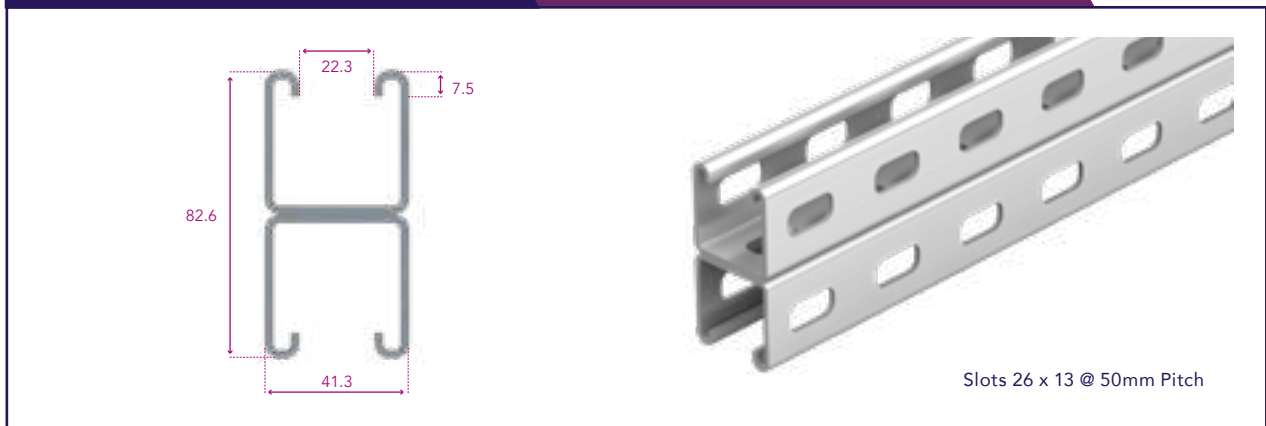


Deep Back to Back Channel Triple Slotted

- 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-BBD-TS

Part Number: IC-CNL-BBD-TS-SL□○



Sectional Properties

CSA (mm ²)	Ixx (mm ⁴)	Zxx (mm ³)	Weight (kg/m)	Yield (N/mm ²)
670.51	331156	8018	4.82	175

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

Finishes & Materials:



Safe Working Load Table

Span (m)	Uniformly 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	1759.09	1.33	1759.09	1759.09	703.64	1.06	703.64	703.64	8423.65
1	1124.11	2.08	1124.11	1124.11	562.06	1.66	562.06	562.06	7460.16
1.2	779.19	2.99	779.19	779.19	467.51	2.40	467.51	467.51	6407.77
1.4	571.21	4.07	571.21	544.98	399.85	3.27	399.85	399.85	5370.42
1.6	436.22	5.32	436.22	363.36	348.98	4.27	348.98	348.98	4435.76
1.8	343.67	6.74	343.67	253.63	309.31	5.41	309.31	285.34	3660.46
2	277.48	8.32	277.48	183.47	277.48	6.69	277.48	229.34	3037.14
2.2	228.50	10.07	228.50	136.54	251.35	8.10	251.35	187.74	2540.63
2.4	191.24	11.99	191.24	103.96	229.49	9.66	229.49	155.94	2144.32
2.6	162.25	14.08	149.37	80.64	210.93	11.36	210.93	131.04	1825.69
2.8	139.25	16.34	118.54	63.52	194.95	13.19	194.95	111.16	1567.13
3	120.69	18.77	95.39	50.66	181.04	15.17	178.87	94.98	1355.25
3.2	105.50	21.37	77.68	40.81	168.80	17.30	155.35	81.63	1179.93
3.4	92.91	24.14	63.88	33.15	157.95	19.57	135.75	70.45	1033.54
3.6	82.37	27.08	52.99	27.10	148.26	21.99	119.22	60.97	910.25
3.8	73.44	30.19	44.27	22.25	139.53	24.56	105.13	52.85	805.60
4	65.82	33.48	37.20	18.33	131.63	27.28	93.00	45.82	716.12
4.2	59.26	36.94	31.42	15.12	124.44	30.15	82.48	39.68	639.09
4.4	53.57	40.57	26.64	12.46	117.86	33.18	73.26	34.27	572.36
4.6	48.61	44.38	22.66	10.25	111.81	36.37	65.14	29.46	514.24
4.8	44.26	48.36	19.31	8.39	106.22	39.72	57.93	25.17	463.33
5	40.42	52.53	16.48	6.82	101.04	43.23	51.50	21.30	418.53