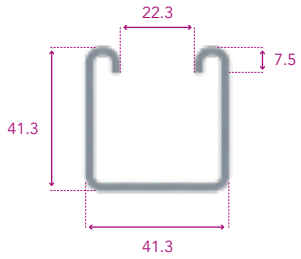
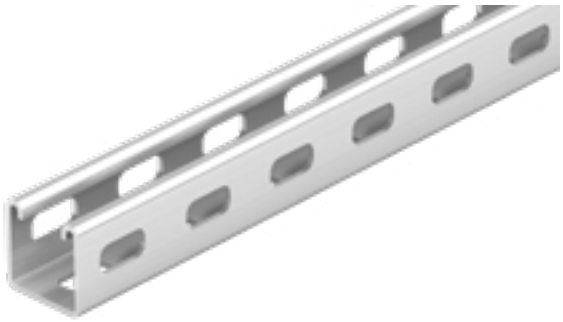
Deep Channel Triple Slotted

- 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-D-TS | **Part Number: IC-CNL-D-TS-SL☐-⬡**





Slots 26 x 13 @ 50mm Pitch

Sectional Properties

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

CSA (mm²)	Ixx (mm⁴)	Zxx (mm⁴)	Weight (kg/m)	Yield (N/mm²)
284.55	65922	2843	2.41	280

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	761.90	2.91	761.90	580.95	304.76	2.33	304.76	290.47	1469.60
1	486.76	4.55	486.76	296.16	243.38	3.64	243.38	185.10	1363.38
1.2	337.31	6.55	308.61	170.28	202.38	5.25	202.38	127.71	1244.98
1.4	247.19	8.92	193.37	106.26	173.03	7.16	169.20	92.98	1105.97
1.6	188.70	11.66	128.67	70.32	150.96	9.36	128.67	70.32	974.47
1.8	148.60	14.76	89.59	48.60	133.74	11.86	100.79	54.68	857.69
2	119.91	18.23	64.60	34.72	119.91	14.66	80.75	43.40	756.41
2.2	98.69	22.07	47.88	25.43	108.56	17.77	65.83	34.97	669.47
2.4	82.55	26.27	36.27	18.98	99.06	21.18	54.41	28.47	595.04
2.6	69.99	30.85	27.97	14.37	90.98	24.90	45.45	23.35	531.24
2.8	60.02	35.80	21.87	10.98	84.03	28.94	38.27	19.21	476.38
3	51.98	41.12	17.29	8.43	77.97	33.30	32.41	15.81	428.99
3.2	45.40	46.82	13.78	6.49	72.64	37.97	27.56	12.97	387.85
3.4	39.94	52.89	11.05	4.97	67.90	42.97	23.49	10.56	351.96
3.6	35.37	59.34	8.90	3.77	63.67	48.30	20.02	8.49	320.50
3.8	31.50	66.17	7.17	2.81	59.86	53.96	17.03	6.68	292.77
4	28.20	73.38	5.77	2.04	56.40	59.96	14.43	5.09	268.23
4.2	25.36	80.98	4.63	1.40	53.26	66.30	12.15	3.68	246.40
4.4	22.90	88.95	3.68	0.88	50.37	73.00	10.13	2.41	226.90
4.6	20.75	97.32	2.89	0.44	47.72	80.04	8.32	1.26	209.42
4.8	18.86	106.07	2.23	0.07	45.27	87.45	6.69	0.21	193.68
5	17.20	115.21	1.67	—	42.99	95.23	5.22	—	179.45

HOW TO ORDER

IC - CNL - TS - SL3* - SS

System Type | Product Group | Type | Channel Length | Finish

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