

INTELOK SUPPORT CHANNEL

Deep Back to Back 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-BBD-S Part Number: IC-CNL-BBD-S -SL□-◇

Slots 26 x 13 @ 50mm Pitch

Sectional Properties

CSA (mm ²)	Lxx (mm ⁴)	Zxx (mm ⁴)	Weight (kg/m)	Yield (N/mm ²)
605.5	363,427	8,800	5.18	280

□ = Select a Channel Length ◇ = Select a Finish

Material Configurations:



Safe Working Load Table

Span (m)	Uniformly Distributed Load				Point 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	2,089.01	1.45	2,089.01	2,089.01	835.60	1.16	835.60	835.60	10,770.29
1.0	1,335.26	2.27	1,335.26	1,335.26	667.63	1.82	667.63	667.63	9,562.42
1.2	925.82	3.27	925.82	925.82	555.49	2.62	555.49	555.49	8,241.48
1.4	678.93	4.45	678.93	592.03	475.25	3.57	475.25	475.25	6,933.90
1.6	518.70	5.82	518.70	394.88	414.96	4.67	414.96	394.88	5,741.39
1.8	408.84	7.37	408.84	275.77	367.96	5.91	367.96	310.24	4,745.70
2.0	330.26	9.10	330.26	199.61	330.26	7.31	330.26	249.51	3,941.83
2.2	272.12	11.01	271.80	148.66	299.33	8.85	299.33	204.41	3,299.91
2.4	227.90	13.11	208.15	113.30	273.48	10.55	273.48	169.95	2,786.81
2.6	193.49	15.39	162.59	87.99	251.53	12.40	251.53	142.98	2,373.98
2.8	166.18	17.86	129.13	69.40	232.65	14.40	225.97	121.45	2,038.86
3.0	144.15	20.51	104.00	55.44	216.23	16.55	195.00	103.95	1,764.22
3.2	126.12	23.35	84.77	44.75	201.80	18.87	169.54	89.51	1,536.98
3.4	111.18	26.37	69.80	36.44	189.01	21.34	148.32	77.43	1,347.26
3.6	98.66	29.58	57.97	29.87	177.58	23.97	130.43	67.20	1,187.51
3.8	88.06	32.98	48.50	24.61	167.31	26.76	115.19	58.44	1,051.95
4.0	79.01	36.57	40.83	20.35	158.03	29.71	102.08	50.86	936.07
4.2	71.23	40.34	34.56	16.86	149.58	32.83	90.71	44.25	836.36
4.4	64.48	44.30	29.37	13.98	141.85	36.11	80.77	38.44	750.02
4.6	58.59	48.45	25.05	11.57	134.76	39.56	72.01	33.28	674.83
4.8	53.42	52.80	21.41	9.56	128.21	43.19	64.24	28.67	609.02
5.0	48.86	57.33	18.34	7.85	122.16	46.98	57.31	24.53	551.12