

## Shallow Channel Slotted

- 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-S-S**

Part Number: IC-CNL-S-S-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> )
201.5	9669	880	1.72	280

□ = 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	241.96	5.63	171.33	94.38	96.78	4.51	85.67	47.19	715.12
1	154.27	8.80	86.83	47.43	77.13	7.06	54.27	29.64	551.98
1.2	106.63	12.68	49.48	26.68	63.98	10.19	37.11	20.01	433.35
1.4	77.90	17.27	30.49	16.13	54.53	13.90	26.68	14.11	346.93
1.6	59.26	22.58	19.82	10.20	47.41	18.20	19.82	10.20	282.85
1.8	46.48	28.60	13.38	6.62	41.83	23.09	15.05	7.45	234.33
2	37.34	35.34	9.26	4.34	37.34	28.60	11.58	5.42	196.84
2.2	30.57	42.80	6.50	2.80	33.63	34.72	8.94	3.86	167.31
2.4	25.43	50.99	4.59	1.74	30.51	41.47	6.89	2.61	143.67
2.6	21.42	59.91	3.22	0.98	27.85	48.87	5.24	1.59	124.45
2.8	18.25	69.57	2.22	0.42	25.55	56.92	3.88	0.74	108.60
3	15.68	79.97	1.46	0.00	23.53	65.64	2.74	0.01	95.39