



# Slotted channel

# TSS



## Description

The Lindab Tecstrut channel suspension and framing system is designed to provide an effective yet economical solution to today's framing and support requirements.

High quality materials are used throughout and the system complies with relevant industry standards including:

### BS EN 10162: 2003

All channels in the Tecstrut system are manufactured to comply with the tolerances detailed in this standard.

### BS 6946: 1988

The data provided takes into account the requirements of this standard for testing of channel, fittings and channel nuts.

### BS En ISO 1461: 1999

Where appropriate fittings and bracketry are post hot dipped galvanised to this standard.

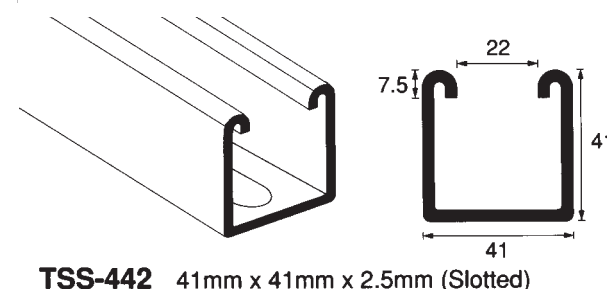
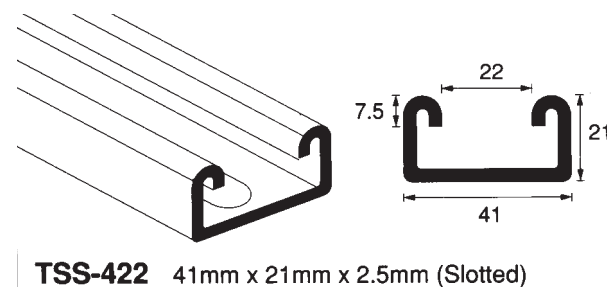
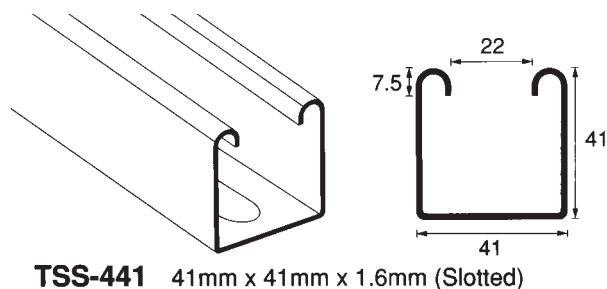
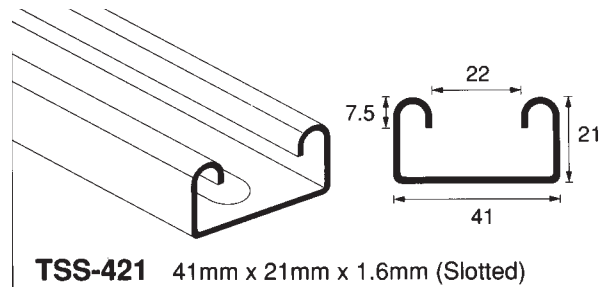
### BS EN 10327: 2004

Channels are manufactured from pre-galvanised steel to this specification.

## Features

- Complies with HVCA specification DW 144
- Manufactured from corrosion resistant materials
- Comprehensive range of components and accessories available in stock throughout the UK.

## Dimensions



In addition to the channel sections shown above, a multiple channel section is available. This comprises two channels welded back to back,

**TSS-442D** - 41mm x 41mm x 2.5mm x 2 (Plain)

Multiple channel sections are produced by spot welding together two individual pre-galvanised channels at 150mm centres. Welds are then protected by the application of corrosion inhibiting paint.



# Plain channel

# TSP

## Load Data

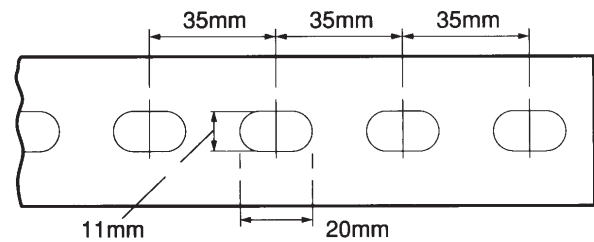
Section	Span mm	Uniform Load@ 182N/mm <sup>2</sup> -KG (Deflection-mm)	Uniform Load@ max deflection of 1/180 of span-KG	Uniform Load@ max deflection of 1/360 of span-KG	Maximum Column Loading-KG
TSS-421	500	200 (1.8)	-	149	2010
	750	135 (4.0)	130	71	1291
	1000	103 (7.0)	80	40	799
	1250	82 (11.0)	51	26	525
	1500	68 (16.3)	35	18	372
	2000	52 (29.0)	21	10	-
	2500	41 (44.5)	13	5	-
	3000	34 (65.5)	-	-	-
TSS-441	500	655 (1.0)	-	-	3351
	750	435 (2.3)	-	394	2879
	1000	331 (4.0)	-	221	2190
	1250	257 (6.1)	-	145	1612
	1500	216 (9.0)	199	97	1195
	2000	159 (16.0)	116	55	739
	2500	130 (25.0)	73	36	501
	3000	108 (35.6)	51	25	366
TSS-422	500	268 (1.8)	-	210	2810
	750	180 (3.9)	-	94	1760
	1000	137 (7.0)	106	53	1043
	1250	106 (11.0)	68	34	695
	1500	90 (15.9)	48	24	490
	2000	69 (28.0)	27	13	-
	2500	55 (44.0)	17	-	-
	3000	45 (63.0)	-	-	-
TSS-442	500	970 (1.0)	-	-	4890
	750	649 (2.3)	-	595	4295
	1000	480 (4.1)	-	335	3390
	1250	385 (6.3)	-	215	2595
	1500	326 (9.1)	301	148	1980
	2000	246 (16.4)	171	84	1265
	2500	197 (25.7)	109	53	895
	3000	163 (37.6)	76	37	685
TSS-442D	500	2810 (0.5)	-	-	9450
	750	1890 (1.3)	-	-	8950
	1000	1410 (2.2)	-	-	7190
	1250	1110 (3.3)	-	-	6880
	1500	905 (5.0)	-	790	5910
	2000	705 (8.7)	-	457	3780
	2500	571 (13.6)	-	286	2490
	3000	474 (20.0)	406	199	1690

## Notes

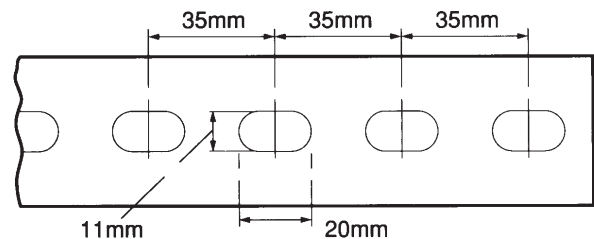
1. Data is based upon uniformly distributed loads. If the load is concentrated at the centre of a span, multiply load from table by 0.5 and deflection by 0.8.
2. **Stress 182 N/mm<sup>2</sup>** recommended when deflection is not critical, especially on longer spans.
3. **Deflection 1/180 of span** recommended when deflection should be limited.
4. **Deflection 1/360 of span** recommended when deflection needs to be imperceptible.
5. Lindab TSSN channel nut loads resistance to slip (2.5 mm channels) - 16.5 kN maximum. Pull out strength (2.5 mm channels) - 24.7 kN maximum. (Bolt size M10 Torque 70 Nm).
6. The load data is calculated, not tested.

## Channel Slotting

### 1.6 mm sections



### 2.5 mm sections



## Section Properties

Section Reference	Weight kg/m	x	y	Moment of Inertia x <sup>2</sup> y in centroid (cm <sup>4</sup> )	Area of cross section (cm <sup>2</sup> )	Main axis angle x axis in centroid (deg)
TSS-421	1.10	0.769	3.236	1.347	90.00	
TSS-441	1.57	4.366	5.452	1.914	90.00	
TSS-422	1.86	1.024	4.729	2.074	90.00	
TSS-442	2.65	6.363	8.307	3.035	90.00	

