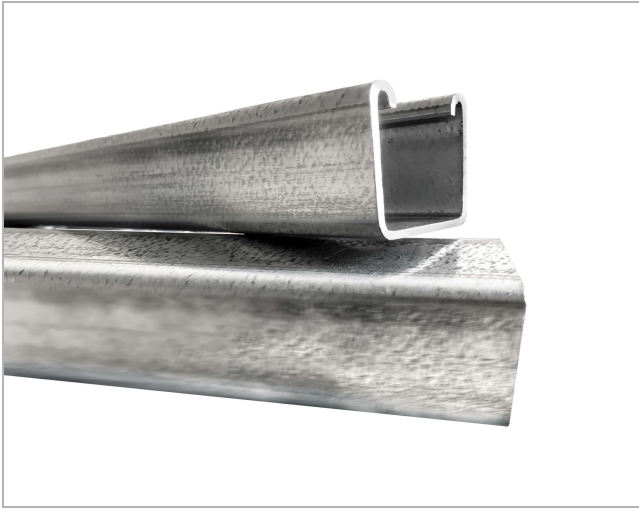




Plain channel

TSP



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

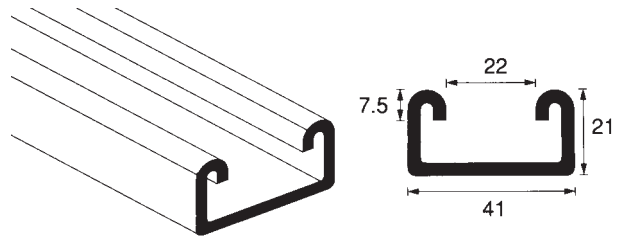
Channels are manufactured from pre-galvanised steel to this specification.

Features

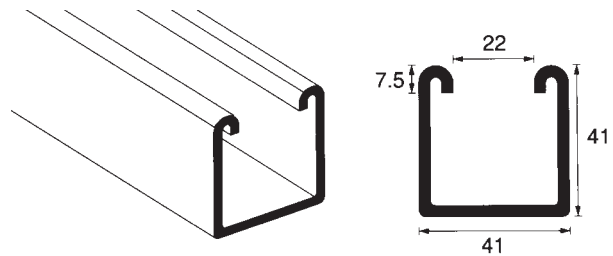
- Complies with HVCA specification DW 144
- Manufactured from corrosion resistant materials
- Comprehensive range of components and accessories available in stock throughout the UK.

sales@lindab.co.uk

Dimensions



TSP-422 41mm x 21mm x 2.5mm (Plain)



TSP-442 41mm x 41mm x 2.5mm (Plain)

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

TSP-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 ² -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 |
|----------|------------|--|--|--|---------------------------------|
| TSP-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) | - | - | - | |
| TSP-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 | |
| TSP-422D | 500 | 801 (1.1) | - | - | 6400 |
| | 750 | 522 (2.5) | - | 450 | 5500 |
| | 1000 | 399 (4.4) | - | 251 | 4155 |
| | 1250 | 312 (6.7) | - | 161 | 2955 |
| | 1500 | 263 (9.7) | 220 | 111 | 2125 |
| | 2000 | 199 (17.5) | 126 | 63 | 1275 |
| | 2500 | 158 (27.0) | 81 | 40 | 830 |
| 3000 | 131 (39.0) | 55 | 28 | - | |

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/mm²** 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 above data is calculated, not tested.

Section Properties

| Section Reference | Weight kg/m | Moment of Inertia x/y in centroid (cm ⁴) | | Area of cross section (cm ²) | Main axis angle x axis in centroid (deg) |
|-------------------|-------------|--|-------|--|--|
| | | x | y | | |
| TSP-422 | 1.86 | 1.024 | 4.729 | 2.074 | 90.00 |
| TSP-442 | 2.65 | 6.363 | 8.307 | 3.035 | 90.00 |

