Tamlex Data Sheet

| Product Code: | Issue Date: | Issue by: |
|---|---|---|
| TS21P-3B2B | 08/08/2023 | SY |

## Description:

41mm x 42mm Plain Channel (3m Length)

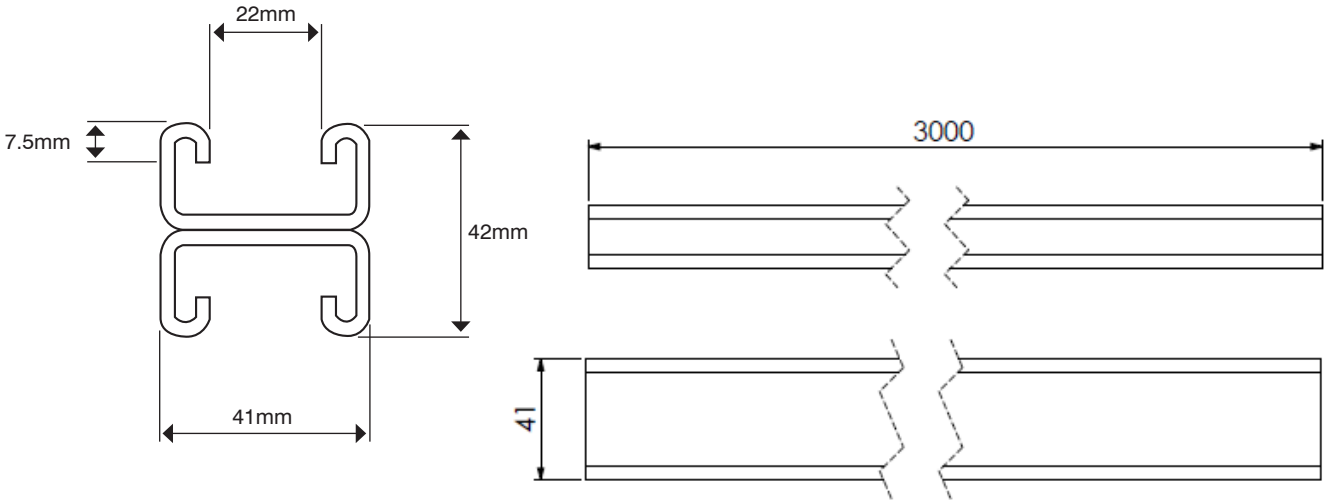
## Features:

- Rigid construction for a wide variety of applications.
- Manufactured from structural grade continuously hot dipped zinc coated low Carbon Steel Strip to BSEN10346: 2009.
- Channel available in both structural grade 2.5mm and light duty 1.5mm gauge.
- Supplied in 3 metre lengths.
- Wide range of external brackets available for use with strut frame work.
- Tamlex strut framework can be ordered pre-cut to any length to suit customer requirements.
- Can be powder coated to customer specific RAL colour.

## Technical:

| | |
|---|---|
| **Width** | 41 mm |
| **Height** | 42 mm |
| **Length** | 3 m |
| **Gauge** | 2.5 mm |
| **Material** | Hot Dipped Zinc Coated Low carbon steel strip |
| **Colour/Finish** | Pre Galvanised Steel (Zinc Coated) |
| **Standards** | BS EN 10346; BS 6946 - 1988 |

## Dimensions:

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THE IMPORTANT DOES AND DON'TS

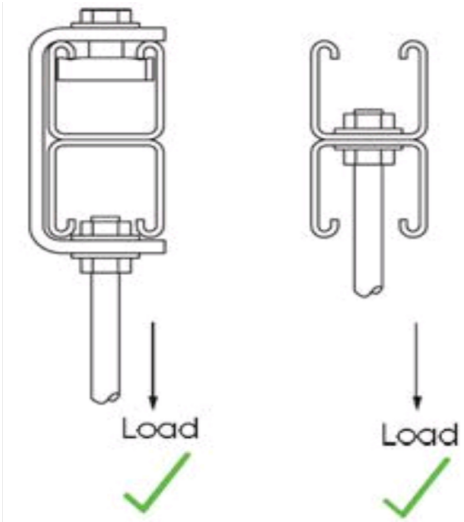
When it comes to the back-to-back channel, it is essential to understand that the weight of any suspended installation relies entirely on the strength of the spot welds. This is because the back-to-back channel is spot-welded during its manufacturing process.

Therefore, it is crucial to use the back-to-back channel correctly to ensure the weight-loading capacity of the installation.

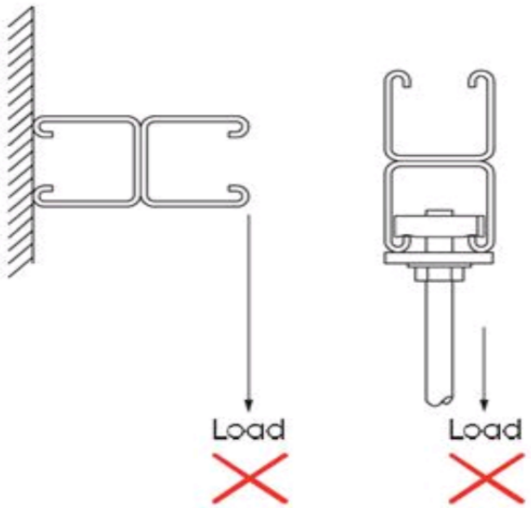
This can be achieved either by bolting right through the channel slots or by using a bracket that provides support from both sides of the channel.

By following these guidelines, you can ensure the stability and safety of the installation.

DO
- Bolt through the channel slots.
- Use a bracket that supports both sides of the channel.




DON'T
- Rely solely on the spot welds for weight-bearing.
- Assume the weight-loading capacity is higher than it is due to spot welds.

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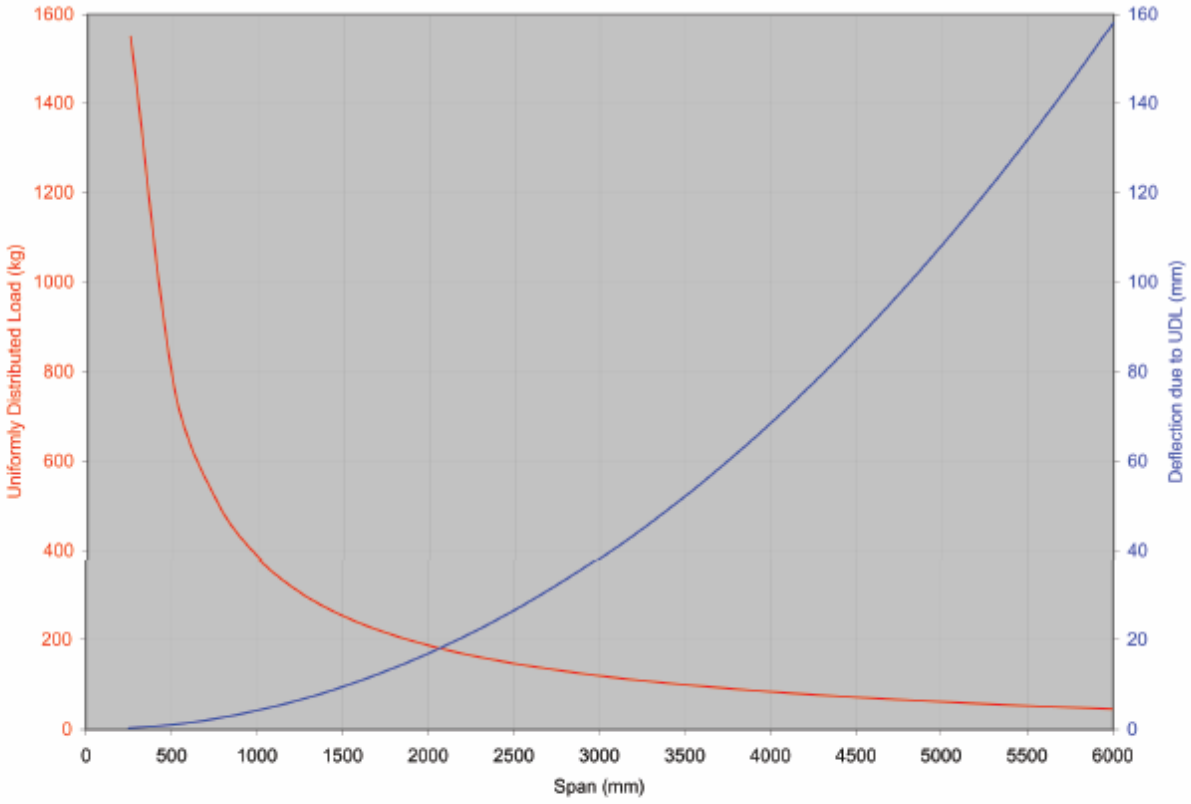
| TS21P-3B2B | 29/11/21 | R.M. |

**Back to Back 41x21x2.5 thk.** (Mass 3.62kg/m)

| | Ultimate Loading | | Limit Def. Span/200 | | Limit Def. Span/360 | |
|---|---|---|---|---|---|---|
| Beam Span (mm) | Total Applied Load (kg) | Total Def. (mm) | Applied UDL (kg) | Total Def. (mm) | Applied UDL (kg) | Total Def. (mm) |
| 250 | 1548.7 | 0.3 | | | | |
| 500 | 773.2 | 1.1 | | | | |
| 750 | 514.1 | 2.4 | | | 451.2 | 2.1 |
| 1000 | 384.2 | 4.2 | | | 251.7 | 2.8 |
| 1250 | 305.9 | 6.6 | 289.6 | 6.3 | 158.9 | 3.5 |
| 1500 | 253.5 | 9.5 | 198.9 | 7.5 | 108.1 | 4.2 |
| 1750 | 215.8 | 13.0 | 143.7 | 8.8 | 77.0 | 4.9 |
| 2000 | 187.3 | 16.9 | 107.7 | 10.0 | 56.6 | 5.6 |
| 2250 | 165.0 | 21.5 | 82.6 | 11.3 | 42.3 | 6.3 |
| 2500 | 147.0 | 26.5 | 64.5 | 12.5 | 31.8 | 6.9 |
| 2750 | 132.1 | 32.1 | 50.8 | 13.8 | 23.8 | 7.6 |
| 3000 | 119.6 | 38.3 | 40.2 | 15.0 | 17.5 | 8.3 |
| 3250 | 108.9 | 45.1 | 31.7 | 16.3 | 12.4 | 9.0 |
| 3500 | 99.6 | 52.4 | 24.8 | 17.5 | 8.2 | 9.7 |
| 3750 | 91.4 | 60.2 | 19.1 | 18.8 | 4.6 | 10.4 |
| 4000 | 84.2 | 68.7 | 14.2 | 20.0 | 1.5 | 11.1 |
| 4250 | 77.7 | 77.7 | 10.1 | 21.3 | | |
| 4500 | 71.8 | 87.4 | 6.4 | 22.5 | | |
| 4750 | 66.5 | 97.6 | 3.2 | 23.8 | | |
| 5000 | 61.6 | 108.4 | 0.3 | 25.0 | | |
| 5250 | 57.1 | 119.9 | | | | |
| 5500 | 53.0 | 132.0 | | | | |
| 5750 | 49.1 | 144.7 | | | | |
| 6000 | 45.5 | 158.1 | | | | |




**Load, Span & Deflection Graph**

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