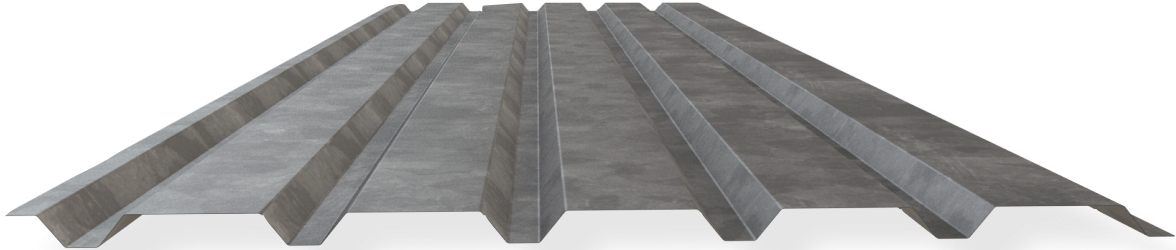


| SR30+

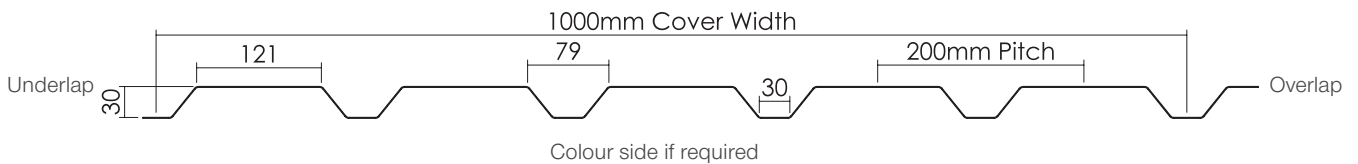
Technical Drawing



Side Lap Detail



Profile



Profile Properties

- Cover Width 1000mm
- Profile Depth 30mm
- Pitch 200mm
- Crown Width 121mm
- Valley Width 79mm
- Thickness available 0.7mm / 0.9mm

Coating Options

- **Galvanised** Hot dip galvanised with a minimum coating mass of 275g/m² (S350GD-Z275)
- **Polyester White** Hot dip galvanised with a minimum coating mass of 150g/m² (S350GD-Z150) with 25 micron bright white polyester to the interior surface

Options

- S350 Grade Steel in accordance with BS EN 10143:2016 and BS EN 10346:2015
- 0.7mm and 0.9mm gauge options available to suit common spacing of Purlins
- Maximum Sheet Lengths up to 12m

Fire Classification

- Class A1 - Reaction to Fire
- Class 1 - BS476 Part 7
- Class O - Current Building Regulations

Standard Fixing Detail

Sheet Ends

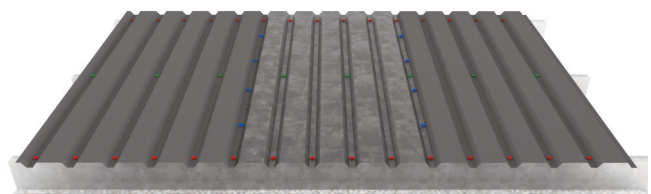
- Every trough - Main Fix
- End Lap - 150mm

Intermediate Fix

- Alternate troughs - Main Fix

Side Lap

- Side Lap - Not essential
- Side Supports – 450mm Centres



SR30+




Section Properties

| Nominal Thickness | Available Grades | Depth of Profile | Nominal Weight of Profile | | Area of Steel | Top flange in compression | | Bottom flange in compression | |
|-------------------|-------------------|------------------|---------------------------|-------------------|--------------------|---------------------------|--------------------|------------------------------|--------------------|
| | | | | | | Moment of Capacity | Moment of Inertia | Moment of Capacity | Moment of Inertia |
| mm | N/mm ² | mm | kg/m ² | kN/m ² | mm ² /m | kNm/m | cm ⁴ /m | kNm/m | cm ⁴ /m |
| 0.7 | S350 | 30 | 6.66 | 0.07 | 805 | 1.45 | 6.2 | 1.54 | 9.5 |
| 0.9 | S350 | 30 | 8.57 | 0.08 | 1049 | 2.19 | 8.8 | 2.18 | 13.2 |

Section properties are calculated in accordance with Eurocode 3.

Load Tables

Positive Imposed Load (Gravity) kN/m²

| Span Type | Gauge (mm) | Span (m) | | | | | | | | | | | | | | | | |
|--|------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| | | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 |
| Single Span  | 0.7 | 5.00 | 3.76 | 2.89 | 2.28 | 1.82 | 1.48 | 1.22 | 1.02 | 0.86 | - | - | - | - | - | - | - | - |
| | 0.9 | 7.10 | 5.33 | 4.11 | 3.23 | 2.59 | 2.10 | 1.73 | 1.44 | 1.22 | 1.03 | 0.89 | - | - | - | - | - | - |
| Double Span  | 0.7 | 4.50 | 3.92 | 3.45 | 3.06 | 2.73 | 2.46 | 2.03 | 1.70 | 1.43 | 1.21 | 1.04 | 0.90 | - | - | - | - | - |
| | 0.9 | 6.92 | 6.01 | 5.27 | 4.66 | 4.15 | 3.50 | 2.89 | 2.41 | 2.03 | 1.72 | 1.48 | 1.28 | 1.11 | 0.97 | - | - | - |
| Multi Span  | 0.7 | 5.32 | 4.65 | 4.10 | 3.63 | 3.04 | 2.47 | 2.03 | 1.70 | 1.43 | 1.21 | 1.04 | 0.90 | - | - | - | - | - |
| | 0.9 | 8.22 | 7.15 | 6.28 | 5.38 | 4.31 | 3.50 | 2.89 | 2.41 | 2.03 | 1.72 | 1.48 | 1.28 | 1.11 | 0.97 | - | - | - |

Negative Imposed Load (Uplift) kN/m²

| Span Type | Gauge (mm) | Span (m) | | | | | | | | | | | | | | | | |
|--|------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 |
| Single Span  | 0.7 | 8.00 | 6.79 | 5.70 | 4.86 | 4.19 | 3.65 | 3.21 | 2.84 | 2.53 | 2.28 | 2.05 | 1.86 | 1.70 | 1.50 | 1.32 | 1.17 | 1.04 |
| | 0.9 | 11.63 | 9.61 | 8.07 | 6.88 | 5.93 | 5.17 | 4.54 | 4.02 | 3.59 | 3.22 | 2.91 | 2.57 | 2.24 | 1.96 | 1.72 | 1.53 | 1.36 |
| Double Span  | 0.7 | 4.38 | 3.81 | 3.35 | 2.97 | 2.65 | 2.38 | 2.15 | 1.96 | 1.79 | 1.64 | 1.51 | 1.39 | 1.29 | 1.20 | 1.12 | 1.04 | 0.98 |
| | 0.9 | 6.94 | 6.02 | 5.28 | 4.67 | 4.16 | 3.74 | 3.37 | 3.06 | 2.79 | 2.56 | 2.35 | 2.17 | 2.01 | 1.86 | 1.74 | 1.62 | 1.52 |
| Multi Span  | 0.7 | 5.19 | 4.52 | 3.98 | 3.53 | 3.16 | 2.85 | 2.58 | 2.35 | 2.15 | 1.97 | 1.82 | 1.68 | 1.56 | 1.45 | 1.35 | 1.26 | 1.18 |
| | 0.9 | 8.24 | 7.17 | 6.30 | 5.58 | 4.99 | 4.48 | 4.05 | 3.68 | 3.36 | 3.08 | 2.84 | 2.62 | 2.43 | 2.26 | 2.10 | 1.97 | 1.84 |

- Tables consider deflection limits of:
 - Positive load** (Gravity) Span /200
 - Negative loads** (Uplift) Span /90
- All loads within table consider a partial factor of 1.5
- Fixing checks for uplift must be considered separately
- Tables based on bearing width (purlin) of 60mm
- Figures shaded indicate where design is governed by deflection