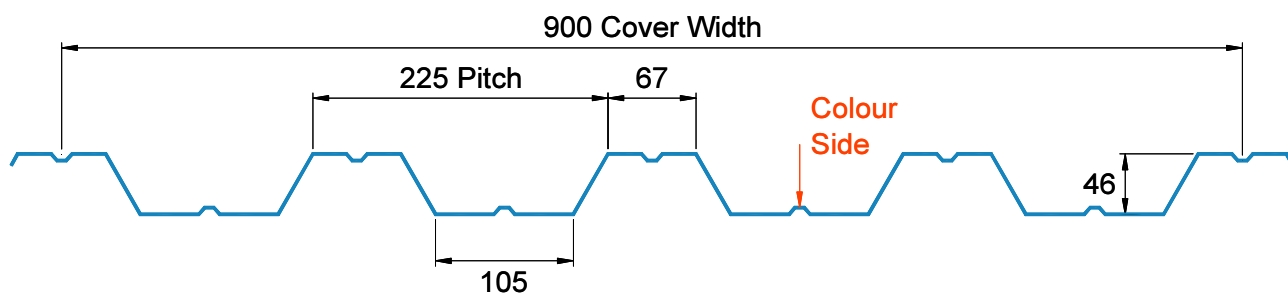


## Span/load tables

R46 Roof profile - 0.9mm aluminium 170N/mm<sup>2</sup>



The span tables below have been created in accordance with EN 1999-1-4 (Eurocode EC9) For the use of roof cladding only.

The values are based on a maximum permitted deflection, span/ 200 under imposed load and span / 150 under wind suction load.

### Safe Imposed (positive) Loads (kN/m<sup>2</sup>)

| Span (m)    | 1    | 1.1  | 1.2  | 1.3  | 1.4  | 1.5  | 1.6  | 1.7  | 1.8  | 1.9  | 2    | 2.1  | 2.2  | 2.3  | 2.4  | 2.5  | 2.6  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Single span | 4.90 | 4.45 | 4.08 | 3.77 | 3.49 | 3.03 | 2.49 | 2.07 | 1.74 | 1.47 | 1.26 |      |      |      |      |      | -    |
| Double span | 3.59 | 3.17 | 2.83 | 2.55 | 2.31 | 2.10 | 1.92 | 1.77 | 1.63 | 1.51 | 1.40 | 1.31 | 1.22 | 1.14 | 1.07 | 1.01 | 0.95 |
| Multi span  | 4.18 | 3.71 | 3.31 | 2.99 | 2.71 | 2.47 | 2.26 | 2.08 | 1.92 | 1.78 | 1.66 | 1.55 | 1.45 | 1.36 | 1.28 | 1.20 | 1.13 |

### Safe Wind Suction (negative) Loads (kN/m<sup>2</sup>)

| Span (m)    | 1     | 1.1   | 1.2   | 1.3  | 1.4  | 1.5  | 1.6  | 1.7  | 1.8  | 1.9  | 2    | 2.1  | 2.2  | 2.3  | 2.4  | 2.5  | 2.6  |
|-------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Single span | 10.83 | 8.96  | 7.53  | 6.06 | 4.86 | 3.96 | 3.27 | 2.73 | 2.31 | 1.97 | 1.69 |      |      |      |      |      | -    |
| Double span | 11.65 | 9.63  | 8.10  | 6.90 | 5.95 | 5.19 | 4.56 | 4.05 | 3.61 | 3.24 | 2.93 | 2.66 | 2.43 | 2.22 | 2.04 | 1.88 | 1.74 |
| Multi span  | 14.55 | 12.03 | 10.11 | 8.62 | 7.44 | 6.48 | 5.70 | 5.05 | 4.51 | 4.05 | 3.66 | 3.32 | 3.03 | 2.66 | 2.34 | 2.08 | 1.85 |

**NOTES** Black figures are stress limited, the load shown is the ultimate load divided by 1.5.  
 Blue figures are deflection limited.  
 These tables apply to the metal profile, a check on fastener capacity is also required.  
 A construction line load 1.5 kN/m has been allowed for.  
 Profile selfweight 3.57 kg/m<sup>2</sup> is included, so is not required in the applied loads.

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