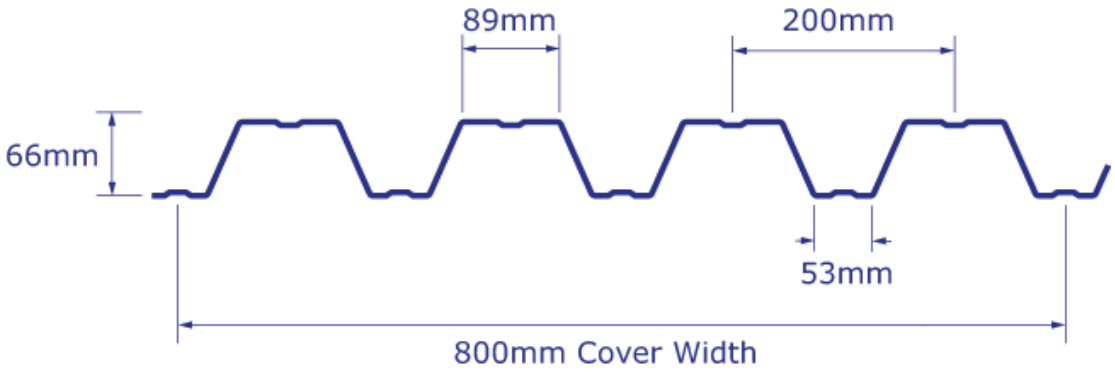
# 800/66 Prodeck Roof Decking Load Table (0.7mm)




The Span Tables below have been created in accordance with EN 1993-1-3 (Eurocode EC3) and calculated by the Steel Construction Institute (SCI). The values are based on a maximum permitted deflection of Span/200 under imposed load.

| | |
|---|---|
| **Load factor (working load to ultimate):** | 1.5 (in accordance with Eurocode). |
| **Deflection for limit of span:** | L/200 |

| | |
|---|---|
| **GRAVITY parameters** | **0.7mm** |
| **Bottom flange in compression** | |
| Moment capacity (kNm/m) | 4.827 |
| Inertia ($cm^4/m$) | 64.442 |
| **Bottom flange in tension** | |
| Moment capacity (kNm/m) | 4.749 |
| Inertia ($cm^4/m$) | 58.87 |
| Shear resistance (kN/m) | 46.338 |
| Web crushing mid (kN/m) | 11.674 |
| Web crushing end (kN/m) | 5.837 |
| Inertia gross section ($cm^4/m$) | 65.367 |

## Prodeck 800/66 - 0.7mm — Span/Load Table - GRAVITY - Working load UDL ($kN/m^2$)

| GRAVITY | | Span in Metres | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Span Type** | **Design Case** | **1.4** | **1.6** | **1.8** | **2.0** | **2.2** | **2.4** | **2.6** | **2.8** | **3.0** | **3.2** | **3.4** | **3.6** | **3.8** |
| **Single** | Moment | 12.92 | 9.89 | 7.82 | 6.33 | 5.23 | 4.40 | 3.75 | 3.23 | 2.81 | 2.47 | 2.19 | 1.95 | 1.75 |
| | Inertia | 17.94 | 12.02 | 8.44 | 6.15 | 4.62 | 3.56 | 2.80 | 2.24 | 1.82 | 1.50 | 1.25 | 1.05 | 0.90 |
| | Reaction | 5.56 | 4.86 | 4.32 | 3.89 | 3.54 | 3.24 | 2.99 | 2.78 | 2.59 | 2.43 | 2.29 | 2.16 | 2.05 |
| | **Limiting** | **5.56** | **4.86** | **4.32** | **3.89** | **3.54** | **3.24** | **2.80** | **2.24** | **1.82** | **1.50** | **1.25** | **1.05** | **0.90** |
| **Double** | Moment | 13.13 | 10.06 | 7.95 | 6.44 | 5.32 | 4.47 | 3.81 | 3.28 | 2.86 | 2.51 | 2.23 | 1.99 | 1.78 |
| | Inertia | 29.90 | 20.03 | 14.07 | 10.25 | 7.70 | 5.93 | 4.67 | 3.74 | 3.04 | 2.50 | 2.09 | 1.76 | 1.49 |
| | Reaction | 4.45 | 3.89 | 3.46 | 3.11 | 2.83 | 2.59 | 2.39 | 2.22 | 2.08 | 1.95 | 1.83 | 1.73 | 1.64 |
| | Interaction | 4.15 | 3.51 | 3.01 | 2.62 | 2.31 | 2.05 | 1.84 | 1.66 | 1.50 | 1.37 | 1.26 | 1.16 | 1.07 |
| | **Limiting** | **4.15** | **3.51** | **3.01** | **2.62** | **2.31** | **2.05** | **1.84** | **1.66** | **1.50** | **1.37** | **1.26** | **1.16** | **1.07** |
| **Multiple** | Moment | 16.42 | 12.57 | 9.93 | 8.05 | 6.65 | 5.59 | 4.76 | 4.10 | 3.58 | 3.14 | 2.78 | 2.48 | 2.23 |
| | Inertia | 29.90 | 20.03 | 14.07 | 10.25 | 7.70 | 5.93 | 4.67 | 3.74 | 3.04 | 2.50 | 2.09 | 1.76 | 1.49 |
| | Reaction | 5.05 | 4.42 | 3.93 | 3.54 | 3.22 | 2.95 | 2.72 | 2.53 | 2.36 | 2.21 | 2.08 | 1.97 | 1.86 |
| | Interaction | 4.83 | 4.09 | 3.52 | 3.07 | 2.71 | 2.41 | 2.16 | 1.96 | 1.78 | 1.62 | 1.49 | 1.37 | 1.27 |
| | **Limiting** | **4.83** | **4.09** | **3.52** | **3.07** | **2.71** | **2.41** | **2.16** | **1.96** | **1.78** | **1.62** | **1.49** | **1.37** | **1.27** |

## Prodeck 800/66 - 0.7mm — Span/Load Table - UPLIFT - Working load UDL ($kN/m^2$)

| UPLIFT | | Span in Metres | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Span Type** | **Design Case** | **1.4** | **1.6** | **1.8** | **2.0** | **2.2** | **2.4** | **2.6** | **2.8** | **3.0** | **3.2** | **3.4** | **3.6** | **3.8** |
| **Single** | Moment | 13.13 | 10.06 | 7.95 | 6.44 | 5.32 | 4.47 | 3.81 | 3.28 | 2.86 | 2.51 | 2.23 | 1.99 | 1.78 |
| | Inertia | 19.03 | 12.75 | 8.95 | 6.53 | 4.90 | 3.78 | 2.97 | 2.38 | 1.93 | 1.59 | 1.33 | 1.12 | 0.95 |
| | Reaction | 5.56 | 4.86 | 4.32 | 3.89 | 3.54 | 3.24 | 2.99 | 2.78 | 2.59 | 2.43 | 2.29 | 2.16 | 2.05 |
| | **Limiting** | **5.56** | **4.86** | **4.32** | **3.89** | **3.54** | **3.24** | **2.97** | **2.38** | **1.93** | **1.59** | **1.33** | **1.12** | **0.95** |
| **Double** | Moment | 12.92 | 9.89 | 7.82 | 6.33 | 5.23 | 4.40 | 3.75 | 3.23 | 2.81 | 2.47 | 2.19 | 1.95 | 1.75 |
| | Inertia | 31.71 | 21.25 | 14.92 | 10.88 | 8.17 | 6.30 | 4.95 | 3.96 | 3.22 | 2.66 | 2.21 | 1.87 | 1.59 |
| | Reaction | 4.45 | 3.89 | 3.46 | 3.11 | 2.83 | 2.59 | 2.39 | 2.22 | 2.08 | 1.95 | 1.83 | 1.73 | 1.64 |
| | Interaction | 4.14 | 3.49 | 3.00 | 2.61 | 2.30 | 2.04 | 1.83 | 1.65 | 1.49 | 1.36 | 1.25 | 1.15 | 1.06 |
| | **Limiting** | **4.14** | **3.49** | **3.00** | **2.61** | **2.30** | **2.04** | **1.83** | **1.65** | **1.49** | **1.36** | **1.25** | **1.15** | **1.06** |
| **Multiple** | Moment | 16.15 | 12.37 | 9.77 | 7.92 | 6.54 | 5.50 | 4.68 | 4.04 | 3.52 | 3.09 | 2.74 | 2.44 | 2.19 |
| | Inertia | 31.71 | 21.25 | 14.92 | 10.88 | 8.17 | 6.30 | 4.95 | 3.96 | 3.22 | 2.66 | 2.21 | 1.87 | 1.59 |
| | Reaction | 5.05 | 4.42 | 3.93 | 3.54 | 3.22 | 2.95 | 2.72 | 2.53 | 2.36 | 2.21 | 2.08 | 1.97 | 1.86 |
| | Interaction | 4.81 | 4.07 | 3.50 | 3.06 | 2.70 | 2.40 | 2.15 | 1.94 | 1.76 | 1.61 | 1.48 | 1.36 | 1.26 |
| | **Limiting** | **4.81** | **4.07** | **3.50** | **3.06** | **2.70** | **2.40** | **2.15** | **1.94** | **1.76** | **1.61** | **1.48** | **1.36** | **1.26** |

'SCI Assessed Quality Mark'. This mark testifies that the Steel Construction Institute (SCI) has independently verified the technical data above.


1000/32 0.7mm Roof Decking Load Table
1000/32 0.75mm Roof Decking Load Table
1000/32 0.9mm Roof Decking Load Table
1000/32 1.2mm Roof Decking Load Table
800/66 0.75mm Roof Decking Load Table
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