

## 8/3 - DX51: 0.5mm

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### DEFLECTION LIMIT L/200 FOR POSITIVE LOADING (DOWNWARDS, GRAVITY CASE) AND L/150 FOR UPLIFT CASE

| Limiting Values<br>(kN/m²) | Gravity | 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   | 1.78 | 1.37 | 1.06 | 0.83 | 0.67 | 0.54 | 0.45 | 0.37 | 0.31 | 0.27 | 0.23 | 0.20 | 0.17 | 0.15 | 0.13 | 0.12 | 0.10 |
|                            |         | Double   | 1.78 | 1.47 | 1.24 | 1.05 | 0.91 | 0.79 | 0.70 | 0.62 | 0.52 | 0.44 | 0.38 | 0.33 | 0.29 | 0.25 | 0.22 | 0.20 | 0.17 |
|                            |         | Multi    | 2.23 | 1.84 | 1.55 | 1.32 | 1.11 | 0.90 | 0.74 | 0.62 | 0.52 | 0.44 | 0.38 | 0.33 | 0.29 | 0.25 | 0.22 | 0.20 | 0.17 |
|                            | Uplift  | 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   | 1.78 | 1.47 | 1.24 | 1.05 | 0.89 | 0.72 | 0.60 | 0.50 | 0.42 | 0.36 | 0.30 | 0.26 | 0.23 | 0.20 | 0.18 | 0.16 | 0.14 |
|                            |         | Double   | 1.78 | 1.47 | 1.24 | 1.05 | 0.91 | 0.79 | 0.70 | 0.62 | 0.55 | 0.49 | 0.45 | 0.40 | 0.37 | 0.33 | 0.29 | 0.26 | 0.23 |
|                            |         | Multi    | 2.23 | 1.84 | 1.55 | 1.32 | 1.14 | 0.99 | 0.87 | 0.77 | 0.69 | 0.59 | 0.51 | 0.44 | 0.38 | 0.33 | 0.29 | 0.26 | 0.23 |

### DEFLECTION LIMIT L/150 FOR BOTH POSITIVE AND NEGATIVE LOADING

| Limiting Values<br>(kN/m²) | Gravity | 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   | 1.78 | 1.47 | 1.24 | 1.05 | 0.89 | 0.72 | 0.60 | 0.50 | 0.42 | 0.36 | 0.30 | 0.26 | 0.23 | 0.20 | 0.18 | 0.16 | 0.14 |
|                            |         | Double   | 1.78 | 1.47 | 1.24 | 1.05 | 0.91 | 0.79 | 0.70 | 0.62 | 0.55 | 0.49 | 0.45 | 0.40 | 0.37 | 0.33 | 0.29 | 0.26 | 0.23 |
|                            |         | Multi    | 2.23 | 1.84 | 1.55 | 1.32 | 1.14 | 0.99 | 0.87 | 0.77 | 0.69 | 0.59 | 0.51 | 0.44 | 0.38 | 0.33 | 0.29 | 0.26 | 0.23 |
|                            | Uplift  | 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   | 1.78 | 1.47 | 1.24 | 1.05 | 0.89 | 0.72 | 0.60 | 0.50 | 0.42 | 0.36 | 0.30 | 0.26 | 0.23 | 0.20 | 0.18 | 0.16 | 0.14 |
|                            |         | Double   | 1.78 | 1.47 | 1.24 | 1.05 | 0.91 | 0.79 | 0.70 | 0.62 | 0.55 | 0.49 | 0.45 | 0.40 | 0.37 | 0.33 | 0.29 | 0.26 | 0.23 |
|                            |         | Multi    | 2.23 | 1.84 | 1.55 | 1.32 | 1.14 | 0.99 | 0.87 | 0.77 | 0.69 | 0.59 | 0.51 | 0.44 | 0.38 | 0.33 | 0.29 | 0.26 | 0.23 |

These tables have been produced by SCI on behalf of Thomas Panels and Profiles in accordance with BS EN 1993-1-3:2006. The loads presented in the tables below represent the total characteristic load that can be applied to the profile for a given span. In design, this value must include the self-weight of the profile along with any other permanent or imposed loads.

## 8/3 - DX51: LOAD SPAN TABLE