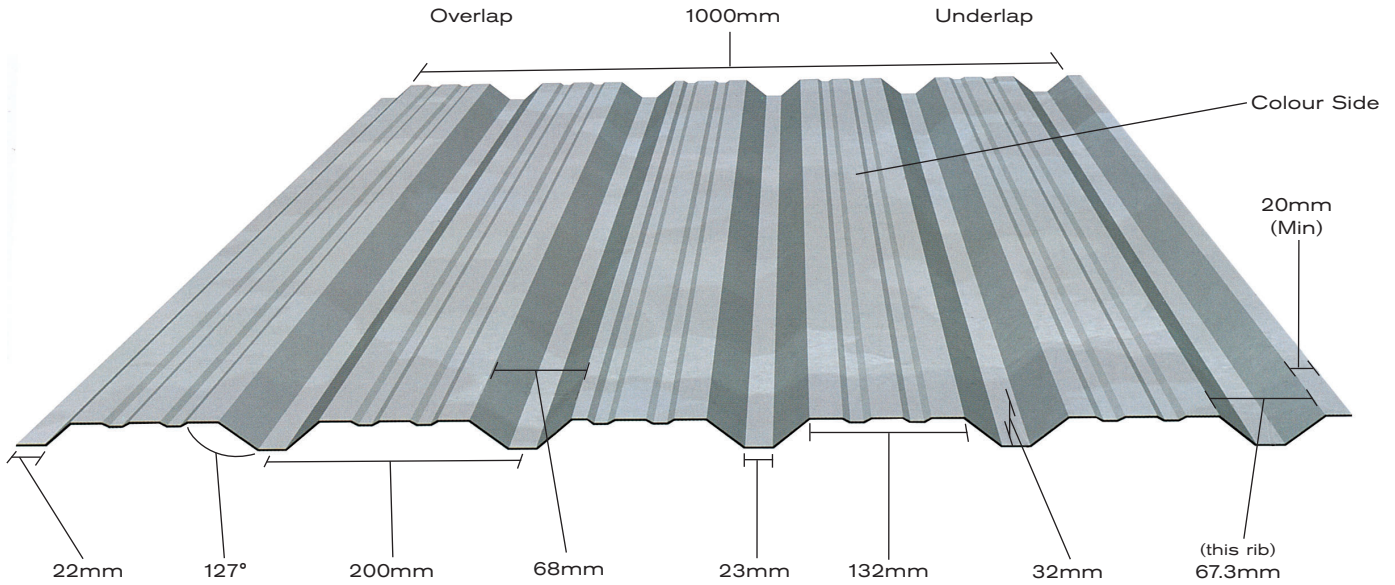


MW5CS – Aluminium



Deflection <math><L/150</math>

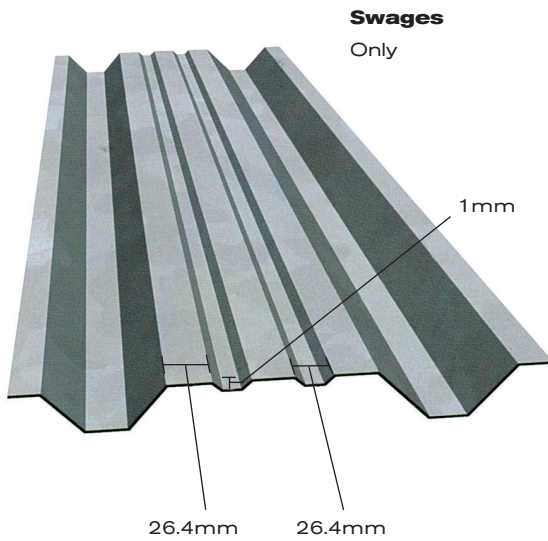
| t (mm) | Mcap +ve (kNm/m) | Mcap -ve (kNm/m) | left (mm4/m) | Rcap (kN/m) |
|--------|------------------|------------------|--------------|-------------|
| 0.9 | 1.23 | 1.25 | 9.073 | 17.01 |
| 0.7 | 0.84 | 0.85 | 6.509 | 10.91 |

Single Span Case – Permissible working +ve Loads

| Thickness | Design Case | Spans in Metres | | | | | | | | | | | | | | | | |
|-----------|-------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | | 1.00 | 1.10 | 1.20 | 1.30 | 1.40 | 1.50 | 1.60 | 1.70 | 1.80 | 1.90 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 | 2.50 | 2.60 |
| 0.9 mm | Moment | 6.56 | 5.42 | 4.56 | 3.88 | 3.35 | 2.92 | 2.56 | 2.27 | 2.02 | 1.82 | 1.64 | 1.49 | 1.36 | 1.24 | 1.14 | 1.05 | 0.97 |
| | Inertia | 7.14 | 5.37 | 4.13 | 3.25 | 2.60 | 2.12 | 1.74 | 1.45 | 1.22 | 1.04 | 0.89 | 0.77 | 0.67 | 0.59 | 0.52 | 0.46 | 0.41 |
| | Reaction | 22.68 | 20.62 | 18.90 | 17.45 | 16.20 | 15.12 | 14.18 | 13.34 | 12.60 | 11.94 | 11.34 | 10.80 | 10.31 | 9.86 | 9.45 | 9.07 | 8.72 |
| | Limiting | 6.56 | 5.37 | 4.13 | 3.25 | 2.60 | 2.12 | 1.74 | 1.45 | 1.22 | 1.04 | 0.89 | 0.77 | 0.67 | 0.59 | 0.52 | 0.46 | 0.41 |

Double Span Case – Permissible working +ve Loads

| Thickness | Design Case | Spans in Metres | | | | | | | | | | | | | | | | |
|-----------|-------------|-----------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1.00 | 1.10 | 1.20 | 1.30 | 1.40 | 1.50 | 1.60 | 1.70 | 1.80 | 1.90 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 | 2.50 | 2.60 |
| 0.9 mm | Moment | 6.67 | 5.51 | 4.63 | 3.94 | 3.40 | 2.96 | 2.60 | 2.31 | 2.06 | 1.85 | 1.67 | 1.51 | 1.38 | 1.26 | 1.16 | 1.07 | 0.99 |
| | Inertia | 17.20 | 12.93 | 9.96 | 7.83 | 6.27 | 5.10 | 4.20 | 3.50 | 2.95 | 2.51 | 2.15 | 1.86 | 1.62 | 1.41 | 1.24 | 1.10 | 0.98 |
| | Reaction | 14.18 | 12.89 | 11.81 | 10.90 | 10.13 | 9.45 | 8.86 | 8.34 | 7.88 | 7.46 | 7.09 | 6.75 | 6.44 | 6.16 | 5.91 | 5.97 | 5.45 |
| | Interaction | 12.73 | 10.91 | 9.46 | 8.28 | 7.32 | 6.51 | 5.83 | 5.25 | 4.76 | 4.33 | 3.96 | 3.63 | 3.35 | 3.09 | 2.87 | 2.66 | 2.48 |
| | Limiting | 6.67 | 5.51 | 4.63 | 3.94 | 3.40 | 2.96 | 2.60 | 2.31 | 2.06 | 1.85 | 1.67 | 1.51 | 1.38 | 1.26 | 1.16 | 1.07 | 0.98 |



| Dimension details | |
|---------------------------------|-----------------|
| Cover Width | 1,000 mm |
| Profile Pitch | 200 mm |
| Profile Depth | 32 mm |
| Crown Width | 23 mm |
| Valley Width | 132 mm |
| Rib Width | 68 mm |
| Web | 39 mm |
| Overlap (left as shown above) | 22 mm |
| Underlap (right as shown above) | 20 mm (minimum) |

| Weight per linear metre | |
|-------------------------|-----------|
| 0.7 mm Mill Finish | 2.338 kgs |
| 0.9 mm Mill Finish | 3.006 kgs |
| 0.7 mm One Side Coated | 2.363 kgs |
| 0.9 mm One Side Coated | 3.039 kgs |

Deflection <math><L/100</math>

| t (mm) | Mcap +ve (kNm/m) | Mcap -ve (kNm/m) | left (mm4/m) | Rcap (kN/m) |
|--------|------------------|------------------|--------------|-------------|
| 0.9 | 1.23 | 1.25 | 9.073 | 17.01 |
| 0.7 | 0.84 | 0.85 | 6.509 | 10.91 |

| Single Span Case – Permissible working +ve Loads | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| Thickness | Design Case | Spans in Metres | | | | | | | | | | | | | | | | |
| | | 1.00 | 1.10 | 1.20 | 1.30 | 1.40 | 1.50 | 1.60 | 1.70 | 1.80 | 1.90 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 | 2.50 | 2.60 |
| 0.9 mm | Moment | 6.56 | 5.42 | 4.56 | 3.88 | 3.35 | 2.92 | 2.56 | 2.27 | 2.02 | 1.82 | 1.64 | 1.49 | 1.36 | 1.24 | 1.14 | 1.05 | 0.97 |
| | Inertia | 14.28 | 10.73 | 8.27 | 6.50 | 5.21 | 4.23 | 3.49 | 2.91 | 2.45 | 2.08 | 1.79 | 1.54 | 1.34 | 1.17 | 1.03 | 0.91 | 0.81 |
| | Reaction | 22.68 | 20.62 | 18.90 | 17.45 | 16.20 | 15.12 | 14.18 | 13.34 | 12.60 | 11.94 | 11.34 | 10.80 | 10.31 | 9.86 | 9.45 | 9.07 | 8.72 |
| | Limiting | 6.56 | 5.42 | 4.56 | 3.88 | 3.35 | 2.92 | 2.56 | 2.27 | 2.02 | 1.82 | 1.64 | 1.49 | 1.34 | 1.17 | 1.03 | 0.91 | 0.81 |

| Double Span Case – Permissible working +ve Loads | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| Thickness | Design Case | Spans in Metres | | | | | | | | | | | | | | | | |
| | | 1.00 | 1.10 | 1.20 | 1.30 | 1.40 | 1.50 | 1.60 | 1.70 | 1.80 | 1.90 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 | 2.50 | 2.60 |
| 0.9 mm | Moment | 6.67 | 5.51 | 4.63 | 3.94 | 3.40 | 2.96 | 2.60 | 2.31 | 2.06 | 1.85 | 1.67 | 1.51 | 1.38 | 1.26 | 1.16 | 1.07 | 0.99 |
| | Inertia | 34.41 | 25.85 | 19.91 | 15.66 | 12.54 | 10.20 | 8.40 | 7.00 | 5.90 | 5.02 | 4.30 | 3.72 | 3.23 | 2.83 | 2.49 | 2.20 | 1.96 |
| | Reaction | 14.18 | 12.89 | 11.81 | 10.90 | 10.13 | 9.45 | 8.86 | 8.34 | 7.88 | 7.46 | 7.09 | 6.75 | 6.44 | 6.16 | 5.91 | 5.67 | 5.45 |
| | Interaction | 12.73 | 10.91 | 9.46 | 8.28 | 7.32 | 6.51 | 5.83 | 5.25 | 4.76 | 4.33 | 3.96 | 3.63 | 3.35 | 3.09 | 2.87 | 2.66 | 2.48 |
| | Limiting | 6.67 | 5.51 | 4.63 | 3.94 | 3.40 | 2.96 | 2.60 | 2.31 | 2.06 | 1.85 | 1.67 | 1.51 | 1.38 | 1.26 | 1.16 | 1.07 | 0.99 |