

TECHNICAL INFORMATION

DIAGONAL BRACES

TIS17004A



| ARTICLE | DESCRIPTION | PERMISSIBLE LOADINGS | | | | | |
|---------|-------------------------|----------------------|------------------|-----------------|------------|---------------|---------------|
| | | WEIGHT (kg) | BRACE LENGTH (m) | POINT LOAD (kN) | UDL (kN/m) | TENSION (kN)* | BUCKLING (kN) |
| UD1077 | UNI diagonal 0.45x1.00m | 2.27 | 1.077 | 2.64 | 4.91 | 11.60 | 34.58 |
| UD1222 | UNI diagonal 0.75x1.00m | 2.42 | 1.222 | 2.33 | 3.81 | 11.60 | 31.4 |
| UD1239 | UNI diagonal 0.78x1.00m | 2.44 | 1.239 | 2.30 | 3.71 | 11.60 | 31 |
| UD1552 | UNI Diagonal 0.45x1.5m | 2.46 | 1.552 | 1.83 | 2.36 | 11.60 | 23.94 |
| UD1622 | UNI Diagonal 0.45x1.57m | 2.57 | 1.622 | 1.75 | 2.16 | 11.60 | 22.55 |
| UD1656 | UNI Diagonal 0.75x1.5m | 2.59 | 1.656 | 1.72 | 2.08 | 11.60 | 21.9 |
| UD1669 | UNI Diagonal 0.78x1.5m | 2.65 | 1.669 | 1.71 | 2.04 | 11.60 | 21.66 |
| UD1722 | UNI Diagonal 0.75x1.57m | 2.69 | 1.722 | 1.65 | 1.92 | 11.60 | 20.71 |
| UD1734 | UNI Diagonal 0.78x1.57m | 2.75 | 1.734 | 1.64 | 1.89 | 11.60 | 20.5 |
| UD2040 | UNI Diagonal 0.45x2.0m | 3.24 | 2.04 | 1.40 | 1.37 | 11.60 | 16.01 |
| UD2110 | UNI diagonal 0.45x2.07m | 3.35 | 2.11 | 1.35 | 1.28 | 11.60 | 15.17 |
| UD2120 | UNI diagonal 0.75x2.0m | 3.3 | 2.12 | 1.34 | 1.27 | 11.60 | 15.06 |
| UD2130 | UNI Diagonal 0.78x2.0m | 3.34 | 2.13 | 1.34 | 1.25 | 11.60 | 14.94 |
| UD2188 | UNI diagonal 0.75x2.07m | 3.43 | 2.188 | 1.30 | 1.19 | 11.60 | 14.31 |
| UD2198 | UNI diagonal 0.78x2.07m | 3.44 | 2.198 | 1.29 | 1.18 | 11.60 | 14.2 |
| UD2532 | UNI Diagonal 0.45x2.5m | 3.74 | 2.532 | 1.12 | 0.89 | 11.60 | 11.22 |
| UD2597 | UNI Diagonal 0.75x2.5m | 3.84 | 2.597 | 1.10 | 0.84 | 11.60 | 10.74 |
| UD2603 | UNI diagonal 0.45x2.57m | 3.85 | 2.603 | 1.09 | 0.84 | 11.60 | 10.7 |
| UD2605 | UNI Diagonal 0.78x2.5m | 3.85 | 2.605 | 1.09 | 0.84 | 11.60 | 10.69 |
| UD2666 | UNI diagonal 0.75x2.57m | 3.93 | 2.666 | 1.07 | 0.80 | 11.60 | 10.27 |
| UD2674 | UNI diagonal 0.78x2.57m | 3.94 | 2.674 | 1.06 | 0.80 | 11.60 | 10.22 |
| UD3027 | UNI Diagonal 0.45x3.0m | 4.27 | 3.027 | 0.94 | 0.62 | 11.60 | 8.21 |
| UD3081 | UNI Diagonal 0.75x3.0m | 4.3 | 3.081 | 0.92 | 0.60 | 11.60 | 7.95 |
| UD3088 | UNI Diagonal 0.78x3.0m | 4.36 | 3.088 | 0.92 | 0.60 | 11.60 | 7.92 |
| UD3098 | UNI diagonal 0.45x3.07m | 4.37 | 3.098 | 0.92 | 0.59 | 11.60 | 7.87 |
| UD3151 | UNI diagonal 0.75x3.07m | 4.42 | 3.151 | 0.90 | 0.57 | 11.60 | 7.63 |
| UD3158 | UNI diagonal 0.78x3.07m | 4.44 | 3.158 | 0.90 | 0.57 | 11.60 | 7.6 |

*LIMITED BY CLAW TENSION FAILURE

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| SECTION |
|---|
| |
| SECTION PROPERTIES |
| <p>A: 3.73 cm² Cz, Cy: 2.41 cm Izz, Iyy: 9.77 cm⁴</p> |
| MATERIAL |
| <p>EN AW 6082-T6</p> <p>Fy = 250N/mm² Fu = 290N/mm²</p> |