



This F35 Truss is based on the F34P 290mm x 290mm truss design and is used for applications such as LED screens where balanced centre rigging of the screen panels on the truss is essential. A central chord with ladder-style horizontal bracing on the bottom face of the truss allows LED panels to be clamped directly onto the centre chord. This negates the need to sling or brace across the two bottom chords to provide a central rigging points as would normally be necessary on a square format truss. Furthermore, the ladder-style horizontal braces creates more and more clear hanging space along the chord compared to the outside chords. Because it is based on the F34P Truss design, F35 Truss can connect to all standard F34/F34P junctions or sleeve blocks so you use your existing F34/F34P Truss to build the rest of the structure! Future development of truss accessories will mean that use of F35 Truss will not be limited to LED screen hanging applications.

TECHNICAL DATA

| | |
|-----------------|---------------|
| Pipe diameter: | 50 mm |
| Wall thickness: | 4,0 mm |
| Material: | EN AW-6082 T6 |
| Brace diameter: | 20 mm |
| Connectors | included |

LOAD ON THE CENTRAL TUBE



Since the deflection of the truss plays an important role in the assembly of LED screens, the static with the lowest deflection ($L / 300$) was used for the central belt tube.

| Span | Uniform distribution load | Deflection | Center point load | Deflection | Point load in third-point | Deflection | Point load in quarter-point | Deflection | Point load in fifth-point | Deflection |
|------|---------------------------|------------|-------------------|------------|---------------------------|------------|-----------------------------|------------|---------------------------|------------|
| m | kg / m | cm | kg | cm | kg | cm | kg | cm | kg | cm |
| 4 | 511 | 0,73 | 800 | 0,46 | 800 | 0,78 | 681 | 0,92 | 511 | 0,88 |
| 5 | 407 | 1,43 | 800 | 0,92 | 800 | 1,53 | 625 | 1,67 | 491 | 1,67 |
| 6 | 270 | 2,00 | 800 | 1,60 | 595 | 2,00 | 427 | 2,00 | 335 | 2,00 |
| 7 | 166 | 2,33 | 726 | 2,33 | 426 | 2,33 | 306 | 2,33 | 240 | 2,33 |
| 8 | 108 | 2,67 | 538 | 2,67 | 316 | 2,67 | 226 | 2,67 | 178 | 2,67 |
| 9 | 72 | 3,00 | 406 | 3,00 | 239 | 3,00 | 171 | 3,00 | 134 | 3,00 |
| 10 | 50 | 3,33 | 310 | 3,33 | 182 | 3,33 | 131 | 3,33 | 103 | 3,33 |
| 11 | 35 | 3,67 | 237 | 3,67 | 139 | 3,67 | 100 | 3,67 | 79 | 3,67 |
| 12 | 24 | 4,00 | 180 | 4,00 | 106 | 4,00 | 76 | 4,00 | 60 | 4,00 |
| 13 | 17 | 4,33 | 134 | 4,33 | 79 | 4,33 | 57 | 4,33 | 44 | 4,33 |
| 14 | 11 | 4,67 | 97 | 4,67 | 57 | 4,67 | 41 | 4,67 | 32 | 4,67 |
| 15 | 7 | 5,00 | 65 | 5,00 | 38 | 5,00 | 27 | 5,00 | 21 | 5,00 |
| 16 | 4 | 5,33 | 37 | 5,33 | 22 | 5,33 | 16 | 5,33 | 12 | 5,33 |

deflection > L/300

LOAD ON THE OUTER TUBES



| Span | Uniform distribution load | Deflection | Center point load | Deflection | Point load in third-point | Deflection | Point load in quarter-point | Deflection | Point load in fifth-point | Deflection |
|------|---------------------------|------------|-------------------|------------|---------------------------|------------|-----------------------------|------------|---------------------------|------------|
| m | kg / m | cm | kg | cm | kg | cm | kg | cm | kg | cm |
| 4 | 511 | 0,73 | 1694 | 0,97 | 1021 | 0,99 | 681 | 0,92 | 511 | 0,88 |
| 5 | 407 | 1,43 | 1416 | 1,59 | 960 | 1,83 | 678 | 1,80 | 508 | 1,72 |
| 6 | 337 | 2,48 | 1210 | 2,37 | 836 | 2,78 | 653 | 3,02 | 506 | 2,98 |
| 7 | 288 | 3,93 | 1053 | 3,32 | 737 | 3,93 | 562 | 4,17 | 446 | 4,20 |
| 8 | 250 | 5,87 | 929 | 4,42 | 656 | 5,27 | 493 | 5,51 | 393 | 5,59 |
| 9 | 202 | 7,67 | 828 | 5,70 | 589 | 6,82 | 437 | 7,04 | 350 | 7,17 |
| 10 | 162 | 9,52 | 745 | 7,15 | 533 | 8,57 | 391 | 8,76 | 314 | 8,95 |
| 11 | 126 | 11,00 | 674 | 8,77 | 485 | 10,54 | 353 | 10,68 | 284 | 10,94 |
| 12 | 94 | 12,00 | 614 | 10,58 | 416 | 12,00 | 298 | 12,00 | 234 | 12,00 |
| 13 | 72 | 13,00 | 561 | 12,57 | 343 | 13,00 | 246 | 13,00 | 193 | 13,00 |
| 14 | 55 | 14,00 | 484 | 14,00 | 284 | 14,00 | 204 | 14,00 | 160 | 14,00 |
| 15 | 43 | 15,00 | 402 | 15,00 | 236 | 15,00 | 169 | 15,00 | 133 | 15,00 |
| 16 | 33 | 16,00 | 334 | 16,00 | 196 | 16,00 | 141 | 16,00 | 110 | 16,00 |
| 17 | 26 | 17,00 | 276 | 17,00 | 162 | 17,00 | 116 | 17,00 | 91 | 17,00 |
| 18 | 20 | 18,00 | 227 | 18,00 | 133 | 18,00 | 95 | 18,00 | 75 | 18,00 |

deflection > L/100

■ load limited by allowable deflection