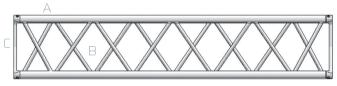
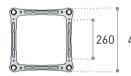


Square section heavy duty aluminium truss twist-resistant version with 40 cm long sides. It replaces the old Heavy Duty series QD40S and QD40SA. It is characterized by the introduction of Ø 48x3 mm chords and Ø 20x2 mm diagonals on all the faces. This truss constitutes Varitower 3-40.





400

extruded tube Ø 48x3 mm EN AW 6082 6

Diagonals B: extruded tube Ø 22x2 mm EN AW 6082 T6

Ends C: aluminium casting plate EN AC 42200 T6

Connection systems QXFC: quick-fit kit

QXSM10: bolt connection kit

LINEAR ELEMENTS

| code | cm | kg |
|-----------|-----------|------|
| QH40SA010 | 40x40x10 | 4,4 |
| QH40SA025 | 40x40x25 | 5,6 |
| QH40SA050 | 40x40x50 | 7,6 |
| QH40SA100 | 40x40x100 | 11,3 |
| QH40SA150 | 40x40x150 | 14,9 |
| QH40SA200 | 40x40x200 | 18,6 |
| QH40SA250 | 40x40x250 | 22,3 |
| QH40SA300 | 40x40x300 | 26 |
| QH40SA350 | 40x40x350 | 29,6 |
| QH40SA400 | 40x40x400 | 33,3 |

CORNERS AND FITTINGS

| code | cm | kg |
|-------------|------------|------|
| QH40SAACSC | 40x14.4x40 | 7,1 |
| QH40SAL2045 | 100x100x29 | 11,6 |
| QH40SAL2060 | 100x100x29 | 17,3 |
| QH40SAL2090 | 50x50x29 | 12,6 |
| QH40SAL2120 | 50x50x29 | 9,2 |
| QH40SAL2135 | 50x50x29 | 9,2 |
| QH40SAL3 | 50x50x50 | 9,5 |
| QH40SAT3 | 50x50x29 | 14,8 |
| QH40SAT4 | 50x50x50 | 17,3 |
| QH40SAX4 | 50x50x29 | 20,1 |
| QH40SAX5 | 50x50x50 | 19,9 |
| QH40SAX6 | 50x50x50 | 27,9 |













QH40SA

LOAD TABLE / SPIGOT CONNECTION

| | | | | ↓ F | | | ↓F ↓F | | | ↓F ↓F ↓F | | | ↑F ↑ F ↓ F ↓ F | | |
|------|---------|----------|------------|------------|---------|-------------|-------------|---------|------------|-------------|---------|------------|----------------|---------|------------|
| | | | | Δ | | \triangle | \triangle | | | \triangle | | | \triangle | | |
| | UNIF. D | ISTRIBUT | ΓED LOAD | CENT | RE POIN | T LOAD | THIR | D POINT | LOAD | QUART | ER POIN | T LOAD | FIFT | H POINT | LOAD |
| | point | full | central | point | full | central | point | full | central | point | full | central | point | full | central |
| SPAN | load | load | deflection | load | load | deflection | load | load | deflection | load | load | deflection | load | load | deflection |
| m | kg/m | kg | mm | kg | kg | mm | kg | kg | mm | kg | kg | mm | kg | kg | mm |
| 1 | 3650 | 3650 | 0 | 3650 | 3650 | 0 | 1825 | 3650 | 0 | 1217 | 3650 | 0 | 913 | 3650 | 0 |
| 2 | 1822 | 3644 | 1 | 2822 | 2822 | 1 | 1736 | 3471 | 1 | 1215 | 3644 | 1 | 911 | 3644 | 1 |
| 3 | 1213 | 3638 | 4 | 2180 | 2180 | 3 | 1408 | 2815 | 4 | 1093 | 3279 | 4 | 907 | 3627 | 4 |
| 4 | 908 | 3631 | 8 | 1767 | 1767 | 7 | 1176 | 2353 | 7 | 936 | 2809 | 8 | 767 | 3066 | 9 |
| 5 | 693 | 3467 | 16 | 1480 | 1480 | 11 | 1006 | 2013 | 12 | 816 | 2447 | 14 | 637 | 2549 | 14 |
| 6 | 486 | 2919 | 23 | 1270 | 1270 | 16 | 877 | 1754 | 19 | 691 | 2073 | 20 | 544 | 2176 | 21 |
| 7 | 359 | 2515 | 31 | 1110 | 1110 | 22 | 775 | 1550 | 26 | 597 | 1790 | 28 | 474 | 1894 | 29 |
| 8 | 276 | 2206 | 41 | 984 | 984 | 30 | 693 | 1386 | 35 | 524 | 1572 | 37 | 418 | 1674 | 38 |
| 9 | 218 | 1960 | 52 | 881 | 881 | 38 | 625 | 1251 | 46 | 466 | 1399 | 47 | 374 | 1496 | 48 |
| 10 | 176 | 1761 | 65 | 797 | 797 | 48 | 569 | 1138 | 58 | 419 | 1257 | 59 | 338 | 1350 | 60 |
| 11 | 145 | 1590 | 79 | 725 | 725 | 58 | 521 | 1041 | 71 | 380 | 1139 | 72 | 307 | 1228 | 74 |
| 12 | 120 | 1445 | 94 | 664 | 664 | 70 | 479 | 958 | 85 | 347 | 1040 | 86 | 281 | 1123 | 88 |
| 13 | 102 | 1322 | 110 | 612 | 612 | 83 | 443 | 885 | 101 | 318 | 954 | 101 | 258 | 1033 | 104 |
| 14 | 87 | 1215 | 128 | 565 | 565 | 97 | 411 | 821 | 118 | 293 | 879 | 118 | 239 | 954 | 122 |
| 15 | 75 | 1122 | 146 | 524 | 524 | 112 | 382 | 765 | 137 | 271 | 814 | 135 | 221 | 885 | 140 |
| 16 | 65 | 1039 | 167 | 488 | 488 | 129 | 357 | 714 | 157 | 252 | 755 | 155 | 206 | 823 | 160 |
| 17 | 57 | 965 | 188 | 455 | 455 | 146 | 334 | 668 | 178 | 234 | 703 | 175 | 192 | 767 | 181 |
| 18 | 50 | 899 | 211 | 425 | 425 | 165 | 313 | 626 | 201 | 219 | 656 | 197 | 179 | 717 | 204 |

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

| SPAN | UNIFORMLY DISTRIBU | JTED LOAD | | CENTRE POINT LOA | AD F |
|------|--------------------|-----------|---------|------------------|---------|
| m | q am kg/m | q am kg | defl mm | F am kg | defl mm |
| 1 | 1822 | 1822 | 1 | 1408 | 1 |
| 2 | 700 | 1400 | 4 | 880 | 6 |
| 3 | 358 | 1074 | 10 | 632 | 16 |
| 4 | 216 | 862 | 19 | 489 | 29 |
| 5 | 143 | 714 | 32 | 395 | 46 |
| 6 | 101 | 605 | 47 | 329 | 68 |

1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when which prevail for the application being considered. calculating the values in the table.

Load table has been prepared in accordance with UNI ENV The values shown in the table are the allowable static loads that It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions

AXIAL LOAD TABLE

AXIAL LOAD

N am. Kg

9697

7444

4316

2519

H m

3

6

9

12

SYSTEM

To further enhance the standard products, LITEC offers a wide range of corners, connections and accessories useful for many different applications and needs. "Quick connect" or "nult & bolt connect". End-plated trusses allow to use two different systems of connection. The quick-fit system is certainly the most wide-spread and mainly used when the structure is frequently assembled and dismantled. In case of permanent installations, on the other hand, a more economical bolt connection system may be used. Our plate is made in such a way that bolts may be completely inserted so that there are no edges or external protuberances which could damage canvases or other fabrics or which might simply be unaesthetic on certain structures.

H40SA / CONNECTIONS



KSG

Litectruss aluminium spigot, set of 10



QXFC

Quick connection set for Q Series



KCP

R-spring, Steel pin, set of 100 set of 10



QXICU

Set of 4 alum. jointed spigot for "X" and "D" truss



K370

Half truss spigot +1 steel pin +1 R-spring (not for Dado)



Set of 4 half spigot with M10 screws for Dado

QUKEC

Set of 4 half spigot with M12 screws for Dado



Threaded pin, set of 12



QXKFCT

Set of 4 half spigot with screw for Universal Sleeve Block



Kit for vert. connec incl. bolts, spigots and access



QXSM10

Bolt connection set for Q25S Series

SA / ACCESSORIES



QX40SAACSC

ST 40 cm. square Clamp module Towerlift/Varitower



T740K01

Assembly tool for half -spigot in 40 cm. side truss



QU40ADP010

Universal Adapter 29 cm. square Length 10.5 cm.



Bar hook for 40 cm. truss



FP30M

Universal 29 cm. truss large floor plate



FP40

Universal 29 cm. truss floor plate



CBQ3040

4 points Bridle Hook for 29/40 cm. truss









QH40SA / CORNERS & FITTINGS



QH40SAL2045

HD 40 cm. square 2 way 45° corner



QH40SAL3

HD 40 cm. square 3 way corner



QH40SAI 2060

HD 40 cm. square 2 way 60° corner



QH40SAT3

HD 40 cm. square 3 way tee



QH40SAI 2090

HD 40 cm. square 2 way 90° corner



QH40SAT4

HD 40 cm. square 4 way tee



QH40SAI 2120

HD 40 cm. square 2 ways 120° corner, ext. vertex



QH40SAX4

HD 40 cm. square 4 way cross



QH40SAL 2135

HD 40 cm. square 2 way 135° corner, int. vertex



QH40SAX5

HD 40 cm. square 5 way cross



QH40SAX6

HD 40 cm. square 6 way cross

DADO SYSTEM DADO, the solution for all 90° corners and crosses. Managing corners and crosses is one of the biggest problems structure installers and hirers have to face. DADO is the answer. It is devised around a six-faced die-cast cube and may be put together in multifarious ways leaving the user complete freedom. The connection between DADO and the trusses is the quick-fit type, with special steel half spigots. Their assembly and alignment is made easy with an assembly template.



QX40K8

DADO 6 way box corner (8 nodules)

K8 is the DADO version for square section structures.



QU40K8

DADO 6 way box corner (8 nodules)

An even sturdier solution to manage corners and crosses.



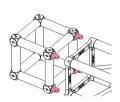
COUPLER ASSEMBLY

Before joining a truss to a Dado, the half-spigots must be inserted on the face to be connected. The spigots should be connected to a Dado with screws. Do not tighten the screws yet.



BLOCKING THE SPIGOTS

Next, using the supplied tool, tighten the screws two by two on the diagonals of the same face. Use of tool TZ30K01 (or TZ40K01 or QX40K8) is essential for maintaining the position of the spigots.



CONNECTING TO THE

TRUSS Connecting Dado to a truss is straightforward and intuitive. You will need both the conical pins and safety split-pins.

NOTE: the conical pins must be hammered hard into the connectors.