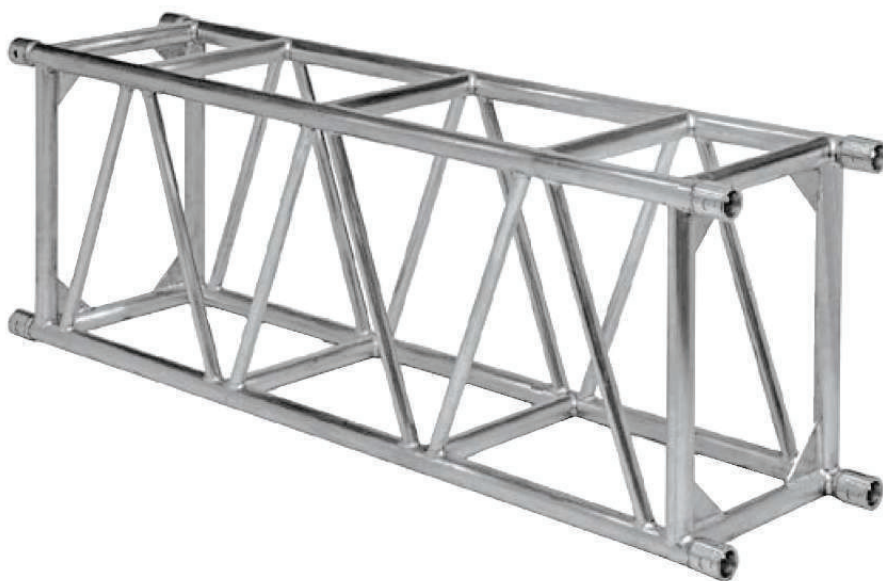




## WR66S SERIES

Il WR66S e il WQ66S sono in grado di assorbire solo carichi verticali. La Wonder truss fornisce una varietà di elementi del W66S offrendo la massima flessibilità, come: cerchi ed archi, diverse figure di angoli, standard o personalizzate.

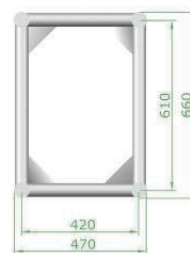
*The WR66S and WQ66S are capable of absorbing vertical loads only. Wonder Truss supplies a variety of W66S truss elements that provide maximum flexibility, like: circles and arches, several types of corners, standard or custom – made lengths.*



WR66S top view



WR66S side view



Traliccio in alluminio a sezione rettangolare rinforzato con lato 66x46 cm.

A: Tubi correnti Ø 50x4 mm  
Lega EN-AW 6082 T6  
B: Diagonali Ø 30x3 mm

Rectangular section truss with 66x46 cm long sides high load.

A: Chords extruded tube Ø 50x4 mm  
EN-AW 6082 T6  
B: Diagonals extruded tube Ø 30x3 mm  
EN-AW 6082 T6

### WR66S

| CODE      | DIMENSIONS (cm) | WEIGHT (kg) |
|-----------|-----------------|-------------|
| WR66S/100 | 66x47x100       | 17.00       |
| WR66S/174 | 66x47x174       | 28.90       |
| WR66S/200 | 66x47x200       | 34.00       |
| WR66S/250 | 66x47x250       | 42.50       |
| WR66S/300 | 66x47x300       | 51.00       |
| WR66S/326 | 66x47x326       | 52.60       |
| WR66S/400 | 66x47x400       | 68.00       |



## LOAD TABLE WR66S

| Span<br>[m] | Centre Point Load<br>(C.P.L.) |                |                         | Third Point Load<br>(T.P.L.) |                |                         | Quarter Point Load<br>(Q.P.L.) |                |                         | Fifth Point Load<br>(F.P.L.) |                |                         | Uniformly Distributed Load<br>(U.D.L.) |                |                         |
|-------------|-------------------------------|----------------|-------------------------|------------------------------|----------------|-------------------------|--------------------------------|----------------|-------------------------|------------------------------|----------------|-------------------------|----------------------------------------|----------------|-------------------------|
|             | Point Load [Kg]               | Full Load [Kg] | Central Deflection [mm] | Point Load [Kg]              | Full Load [Kg] | Central Deflection [mm] | Point Load [Kg]                | Full Load [Kg] | Central Deflection [mm] | Point Load [Kg]              | Full Load [Kg] | Central Deflection [mm] | Point Load [Kg]                        | Full Load [Kg] | Central Deflection [mm] |
| 3           | 6195                          | 6195           | 4                       | 3097                         | 6194           | 4                       | 2054                           | 6162           | 4                       | 1548                         | 6192           | 4                       | 2064                                   | 6192           | 4                       |
| 4           | 5042                          | 5042           | 7                       | 3088                         | 6176           | 7                       | 2047                           | 6141           | 7                       | 1544                         | 6176           | 7                       | 1543                                   | 6172           | 7                       |
| 5           | 4019                          | 4019           | 10                      | 3014                         | 6028           | 10                      | 2007                           | 6021           | 10                      | 1540                         | 6160           | 10                      | 1232                                   | 6160           | 10                      |
| 6           | 3333                          | 3333           | 15                      | 2500                         | 5000           | 15                      | 1667                           | 5001           | 15                      | 1380                         | 5520           | 15                      | 1025                                   | 6150           | 15                      |
| 7           | 2841                          | 2841           | 20                      | 2130                         | 4260           | 20                      | 1421                           | 4263           | 20                      | 1179                         | 4716           | 20                      | 812                                    | 5684           | 20                      |
| 8           | 2471                          | 2471           | 26                      | 1852                         | 3704           | 26                      | 1234                           | 3702           | 26                      | 1024                         | 4096           | 26                      | 616                                    | 4928           | 26                      |
| 9           | 2179                          | 2179           | 33                      | 1634                         | 3268           | 33                      | 1090                           | 3270           | 33                      | 902                          | 3608           | 33                      | 485                                    | 4365           | 33                      |
| 10          | 1945                          | 1945           | 40                      | 1458                         | 2916           | 40                      | 972                            | 2916           | 40                      | 806                          | 3224           | 40                      | 387                                    | 3870           | 40                      |
| 11          | 1750                          | 1750           | 51                      | 1314                         | 2628           | 51                      | 875                            | 2625           | 51                      | 726                          | 2904           | 51                      | 316                                    | 3476           | 51                      |
| 12          | 1591                          | 1591           | 58                      | 1190                         | 2380           | 58                      | 794                            | 2382           | 58                      | 661                          | 2644           | 58                      | 264                                    | 3168           | 58                      |
| 13          | 1450                          | 1450           | 71                      | 1084                         | 2168           | 71                      | 724                            | 2172           | 71                      | 600                          | 2400           | 71                      | 221                                    | 2873           | 71                      |
| 14          | 1330                          | 1330           | 82                      | 998                          | 1996           | 82                      | 664                            | 1992           | 82                      | 554                          | 2216           | 82                      | 196                                    | 2744           | 82                      |
| 15          | 1224                          | 1224           | 94                      | 916                          | 1832           | 94                      | 612                            | 1836           | 94                      | 508                          | 2032           | 94                      | 165                                    | 2475           | 94                      |
| 16          | 1133                          | 1133           | 106                     | 880                          | 1760           | 106                     | 564                            | 1692           | 106                     | 469                          | 1876           | 106                     | 140                                    | 2240           | 106                     |
| 17          | 1050                          | 1050           | 118                     | 786                          | 1572           | 118                     | 524                            | 1572           | 118                     | 434                          | 1736           | 118                     | 122                                    | 2074           | 118                     |
| 18          | 975                           | 975            | 135                     | 730                          | 1460           | 135                     | 486                            | 1458           | 135                     | 401                          | 1604           | 135                     | 104                                    | 1872           | 135                     |
| 19          | 906                           | 906            | 148                     | 680                          | 1360           | 148                     | 452                            | 1356           | 148                     | 374                          | 1496           | 148                     | 94                                     | 1786           | 148                     |
| 20          | 844                           | 844            | 165                     | 634                          | 1268           | 165                     | 422                            | 1266           | 165                     | 348                          | 1392           | 165                     | 83                                     | 1660           | 165                     |
| 21          | 787                           | 787            | 182                     | 590                          | 1180           | 182                     | 394                            | 1182           | 182                     | 324                          | 1296           | 182                     | 74                                     | 1554           | 182                     |
| 22          | 735                           | 735            | 197                     | 551                          | 1102           | 197                     | 368                            | 1104           | 197                     | 304                          | 1216           | 197                     | 65                                     | 1430           | 197                     |
| 23          | 686                           | 686            | 219                     | 514                          | 1028           | 219                     | 343                            | 1029           | 219                     | 284                          | 1136           | 219                     | 59                                     | 1357           | 219                     |
| 24          | 641                           | 641            | 238                     | 480                          | 960            | 238                     | 320                            | 960            | 238                     | 264                          | 1056           | 238                     | 52                                     | 1248           | 238                     |

Calcolo eseguito in conformità della norma Europea **Eurocode 9, UNI ENV 1992**, "Progetto di strutture in alluminio"

Calculated according to European **Eurocode 9, UNI ENV 1992** "Project of aluminum structures".

| Description           | Specification                     |
|-----------------------|-----------------------------------|
| External dimension    | 660 x 470 mm                      |
| Main tube             | Ø 50x4 mm EN-AW 6082 T6           |
| Braces                | Ø 50x4 mm EN-AW 6082 T6           |
| Diagonals             | Ø 30x3 mm EN-AW 6082 T6           |
| Connecting            | Forks connection / Spigots        |
| Welding process       | TIG (EWF - EN ISO 9606-2 - 2004)  |
| Available length (cm) | 60-80-100-130-150-160-200-240-300 |

