# USP STRUCTURAL CONNECTORS
## ENGINEERED PRODUCTS/ENGINEERING SERVICES

# ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

| USP Stock No. | Ref. No. | Min. Heel Height (in) | No. of Supporting Member Plies | Fasteners Supporting Member | Fasteners Supported Member | 2 x 4 Download 100% | 115% | Uplift 160% | 2 x 6 Download 100% | 115% | Uplift 160% | 2 x 8 Download 100% | 115% | Uplift 160% | 2 x 10 Download 100% | 115% | Uplift 160% | 2 x 12 Download 100% | 115% | Uplift 160% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1 Ply Carried Member** | | | | | | | | | | | | | | | | | | | | |
| JL24 | LU24 | 2 11/16 | 1 | (4) 10d | (2) 10d x 1 1/2 | 390 | 450 | 205 | 390 | 450 | 205 | 390 | 450 | 205 | 390 | 450 | 205 | 390 | 450 | 205 |
| | | 2 11/16 | 1 | (4) 16d | (2) 10d x 1 1/2 | 435 | 500 | 205 | 435 | 500 | 205 | 435 | 500 | 205 | 435 | 500 | 205 | 435 | 500 | 205 |
| | | 2 11/16 | 2 | (4) 10d | (2) 10d x 1 1/2 | 390 | 450 | 205 | 390 | 450 | 205 | 390 | 450 | 205 | 390 | 450 | 205 | 390 | 450 | 205 |
| | | 2 11/16 | 2 | (4) 16d | (2) 10d x 1 1/2 | 470 | 540 | 205 | 470 | 540 | 205 | 470 | 540 | 205 | 470 | 540 | 205 | 470 | 540 | 205 |
| SUH24 | U24 | 2 11/16 | 1 | (4) 10d | (2) 10d x 1 1/2 | 400 | 460 | 310 | 400 | 460 | 310 | 400 | 460 | 310 | 400 | 460 | 310 | 400 | 460 | 310 |
| | | 2 11/16 | 1 | (4) 16d | (2) 10d x 1 1/2 | 440 | 505 | 310 | 440 | 505 | 310 | 440 | 505 | 310 | 440 | 505 | 310 | 440 | 505 | 310 |
| | | 2 11/16 | 2 | (4) 10d | (2) 10d x 1 1/2 | 400 | 460 | 310 | 400 | 460 | 310 | 400 | 460 | 310 | 400 | 460 | 310 | 400 | 460 | 310 |
| | | 2 11/16 | 2 | (4) 16d | (2) 10d x 1 1/2 | 475 | 545 | 310 | 475 | 545 | 310 | 475 | 545 | 310 | 475 | 545 | 310 | 475 | 545 | 310 |
| JUS24 | LUS24 | 2 1/4 | 1 | (4) 10d | (2) 10d | 560 | 640 | 430 | 560 | 640 | 430 | 560 | 640 | 430 | 560 | 640 | 430 | 560 | 640 | 430 |
| | | 2 1/4 | 2 | (4) 10d | (2) 10d | 560 | 640 | 430 | 560 | 640 | 430 | 560 | 640 | 430 | 560 | 640 | 430 | 560 | 640 | 430 |
| JL26 | LU26 | 4 3/8 | 1 | (6) 10d | (4) 10d x 1 1/2 | --- | --- | --- | 590 | 675 | 405 | 590 | 675 | 405 | 590 | 675 | 405 | 590 | 675 | 405 |
| | | 4 3/8 | 1 | (6) 16d | (4) 10d x 1 1/2 | --- | --- | --- | 645 | 745 | 405 | 645 | 745 | 405 | 645 | 745 | 405 | 645 | 745 | 405 |
| | | 4 3/8 | 2 | (6) 10d | (4) 10d x 1 1/2 | --- | --- | --- | 590 | 675 | 405 | 590 | 675 | 405 | 590 | 675 | 405 | 590 | 675 | 405 |
| | | 4 3/8 | 2 | (6) 16d | (4) 10d x 1 1/2 | --- | --- | --- | 700 | 805 | 405 | 700 | 805 | 405 | 700 | 800 | 405 | 700 | 800 | 405 |
| SUH26 | U26 | 4 5/16 | 1 | (6) 10d | (4) 10d x 1 1/2 | --- | --- | --- | 600 | 690 | 620 | 600 | 690 | 620 | 600 | 690 | 620 | 600 | 690 | 620 |
| | | 4 5/16 | 1 | (6) 16d | (4) 10d x 1 1/2 | --- | --- | --- | 660 | 755 | 620 | 660 | 755 | 620 | 660 | 755 | 620 | 660 | 755 | 620 |
| | | 4 5/16 | 2 | (6) 10d | (4) 10d x 1 1/2 | --- | --- | --- | 600 | 690 | 620 | 600 | 690 | 620 | 600 | 690 | 620 | 600 | 690 | 620 |
| | | 4 5/16 | 2 | (6) 16d | (4) 10d x 1 1/2 | --- | --- | --- | 715 | 820 | 620 | 715 | 820 | 620 | 715 | 820 | 620 | 715 | 800 | 620 |
| HD26 | HU26 | 1 7/8 | 1 | (4) 10d | (2) 10d x 1 1/2 | --- | --- | --- | 410 | 465 | 245 | 410 | 465 | 245 | 410 | 465 | 245 | 410 | 465 | 245 |
| | | 1 7/8 | 1 | (4) 16d | (2) 10d x 1 1/2 | --- | --- | --- | 450 | 510 | 245 | 450 | 510 | 245 | 450 | 510 | 245 | 450 | 510 | 245 |
| | | 1 7/8 | 2 | (4) 10d | (2) 10d x 1 1/2 | --- | --- | --- | 410 | 465 | 245 | 410 | 465 | 245 | 410 | 465 | 245 | 410 | 465 | 245 |
| | | 1 7/8 | 2 | (4) 16d | (2) 10d x 1 1/2 | --- | --- | --- | 485 | 555 | 245 | 485 | 555 | 245 | 485 | 555 | 245 | 485 | 555 | 245 |
| JUS26 | LUS26 | 4 7/16 | 1 | (4) 10d | (4) 10d | --- | --- | --- | 725 | 835 | 935 | 725 | 800 | 935 | 725 | 800 | 935 | 725 | 800 | 935 |
| | | 4 7/16 | 2 | (4) 10d | (4) 10d | --- | --- | --- | 725 | 835 | 935 | 725 | 835 | 935 | 725 | 800 | 935 | 725 | 800 | 935 |
| MUS26 | MUS26 | 4 1/4 | 1 | (6) 10d | (6) 10d | --- | --- | --- | 1100 | 1265 | 725 | 800 | 800 | 725 | 800 | 800 | 725 | 800 | 800 | 725 |
| | | 4 1/4 | 1 | (6) 16d | (6) 16d | --- | --- | --- | 1165 | 1340 | 670 | 800 | 800 | 670 | 800 | 800 | 670 | 800 | 800 | 670 |
| | | 4 1/4 | 2 | (6) 10d | (6) 10d | --- | --- | --- | 1100 | 1265 | 725 | 1100 | 1265 | 725 | 1100 | 1265 | 725 | 800 | 800 | 725 |
| | | 4 1/4 | 2 | (6) 16d | (6) 16d | --- | --- | --- | 1310 | 1505 | 725 | 1310 | 1505 | 725 | 1250 | 1435 | 725 | 800 | 800 | 725 |
| HUS26 | HUS26 | 4 5/16 | 1 | (14) 10d | (6) 10d | --- | --- | --- | 1905 | 2190 | 1360 | 835 | 960 | 1360 | 800 | 805 | 1360 | 800 | 800 | 1360 |
| | | 4 5/16 | 1 | (14) 16d | (6) 16d | --- | --- | --- | 2085 | 2400 | 1615 | 835 | 960 | 1615 | 800 | 805 | 1615 | 800 | 800 | 1615 |
| | | 4 5/16 | 2 | (14) 10d | (6) 10d | --- | --- | --- | 1905 | 2190 | 1360 | 1670 | 1920 | 1360 | 1400 | 1610 | 1360 | 800 | 800 | 1360 |
| | | 4 5/16 | 2 | (14) 16d | (6) 16d | --- | --- | --- | 2260 | 2600 | 1615 | 1670 | 1920 | 1615 | 1400 | 1610 | 1615 | 800 | 800 | 1615 |
| THD26 | -- -- | 5 1/4 | 1 | (18) 10d | (12) 10d x 1 1/2 | --- | --- | --- | 1800 | 2075 | 1860 | 800 | 830 | 1860 | 800 | 800 | 1860 | 800 | 800 | 1860 |
| | | 5 1/4 | 1 | (18) 16d | (12) 10d x 1 1/2 | --- | --- | --- | 1975 | 2275 | 1860 | 800 | 830 | 1860 | 800 | 800 | 1860 | 800 | 800 | 1860 |
| | | 5 1/4 | 2 | (18) 10d | (12) 10d x 1 1/2 | --- | --- | --- | 1800 | 2075 | 1860 | 1440 | 1655 | 1860 | 1295 | 1490 | 1860 | 800 | 800 | 1860 |
| | | 5 1/4 | 2 | (18) 16d | (12) 10d x 1 1/2 | --- | --- | --- | 2140 | 2465 | 1860 | 1440 | 1655 | 1860 | 1295 | 1490 | 1860 | 800 | 800 | 1860 |
| JL28 | LU28 | 5 15/16 | 1 | (10) 10d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 910 | 1045 | 740 | 800 | 840 | 740 | 800 | 800 | 740 |
| | | 5 15/16 | 1 | (10) 16d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 910 | 1045 | 740 | 800 | 840 | 740 | 800 | 800 | 740 |
| | | 5 15/16 | 2 | (10) 10d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 980 | 1085 | 740 | 980 | 1085 | 740 | 800 | 800 | 740 |
| | | 5 15/16 | 2 | (10) 16d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1170 | 1345 | 740 | 1170 | 1345 | 740 | 800 | 800 | 740 |
| SUH28 | -- -- | 6 1/16 | 1 | (8) 10d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 800 | 920 | 670 | 800 | 920 | 670 | 800 | 920 | 670 |
| | | 6 1/16 | 1 | (8) 16d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 875 | 1010 | 670 | 875 | 1010 | 670 | 870 | 1000 | 670 |
| | | 6 1/16 | 2 | (8) 10d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 800 | 920 | 670 | 800 | 920 | 670 | 800 | 920 | 670 |
| | | 6 1/16 | 2 | (8) 16d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 950 | 1095 | 670 | 950 | 1095 | 670 | 950 | 1095 | 670 |
| HD28 | HU28 | 4 3/8 | 1 | (8) 10d | (4) 10d x 1 1/2 | --- | --- | --- | 815 | 940 | 635 | 800 | 850 | 635 | 800 | 800 | 635 | 800 | 800 | 635 |
| | | 4 3/8 | 1 | (8) 16d | (4) 10d x 1 1/2 | --- | --- | --- | 895 | 1030 | 635 | 800 | 850 | 635 | 800 | 800 | 635 | 800 | 800 | 635 |
| | | 4 3/8 | 2 | (8) 10d | (4) 10d x 1 1/2 | --- | --- | --- | 815 | 940 | 635 | 815 | 940 | 635 | 815 | 940 | 635 | 800 | 800 | 635 |
| | | 4 3/8 | 2 | (8) 16d | (4) 10d x 1 1/2 | --- | --- | --- | 970 | 1115 | 635 | 970 | 1115 | 635 | 970 | 1115 | 635 | 800 | 800 | 635 |
| JUS28 | LUS28 | 4 3/8 | 1 | (6) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | 920 | 1060 | 935 | 920 | 1060 | 935 | 870 | 1000 | 935 |
| | | 4 3/8 | 2 | (6) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | 920 | 1060 | 935 | 920 | 1060 | 935 | 920 | 1060 | 935 |
| MUS28 | MUS28 | 6 5/16 | 1 | (8) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | 1465 | 1685 | 1035 | 965 | 1105 | 1035 | 855 | 980 | 1035 |
| | | 6 5/16 | 1 | (8) 16d | (8) 16d | --- | --- | --- | --- | --- | --- | 1610 | 1850 | 955 | 965 | 1105 | 955 | 855 | 980 | 955 |
| | | 6 5/16 | 2 | (8) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | 1465 | 1685 | 1035 | 1465 | 1685 | 1035 | 1465 | 1685 | 1035 |
| | | 6 5/16 | 2 | (8) 16d | (8) 16d | --- | --- | --- | --- | --- | --- | 1745 | 2005 | 1035 | 1745 | 2005 | 1035 | 1710 | 1965 | 1035 |
| HUS28 | HUS28 | 6 11/16 | 1 | (22) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | 2870 | 3075 | 1820 | 1215 | 1400 | 1820 | 975 | 1125 | 1820 |
| | | 6 11/16 | 1 | (22) 16d | (8) 16d | --- | --- | --- | --- | --- | --- | 3150 | 3370 | 2160 | 1215 | 1400 | 2160 | 975 | 1125 | 2160 |
| | | 6 11/16 | 2 | (22) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | 2870 | 3075 | 1820 | 2430 | 2795 | 1820 | 1950 | 2245 | 1820 |
| | | 6 11/16 | 2 | (22) 16d | (8) 16d | --- | --- | --- | --- | --- | --- | 3410 | 3650 | 2160 | 2430 | 2795 | 2160 | 1950 | 2245 | 2160 |

See footnotes on page 7.

| USP Stock No. | Ref. No. | Min. Heel Height (in) | No. of Supporting Member Plies | Fasteners Supporting Member | Fasteners Supported Member | 2 x 4 Download 100% | 2 x 4 Download 115% | 2 x 4 Uplift 160% | 2 x 6 Download 100% | 2 x 6 Download 115% | 2 x 6 Uplift 160% | 2 x 8 Download 100% | 2 x 8 Download 115% | 2 x 8 Uplift 160% | 2 x 10 Download 100% | 2 x 10 Download 115% | 2 x 10 Uplift 160% | 2 x 12 Download 100% | 2 x 12 Download 115% | 2 x 12 Uplift 160% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1 Ply Carried Member** | | | | | | | | | | | | | | | | | | | | |
| THD28 | -- -- | $7\frac{1}{16}$ | 1 | (28) 10d | (16) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 2805 | 2805 | 1960 | 1115 | 1280 | 1960 | 930 | 1070 | 1960 |
|  |  | $7\frac{1}{16}$ | 1 | (28) 16d | (16) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 3075 | 3075 | 1960 | 1115 | 1280 | 1960 | 930 | 1070 | 1960 |
|  |  | $7\frac{1}{16}$ | 2 | (28) 10d | (16) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 2805 | 2805 | 1960 | 2230 | 2565 | 1960 | 1860 | 2140 | 1960 |
|  |  | $7\frac{1}{16}$ | 2 | (28) 16d | (16) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 3330 | 3330 | 1960 | 2230 | 2565 | 1960 | 1860 | 2140 | 1960 |
| JL210 | LU210 | $7\frac{11}{16}$ | 1 | (14) 10d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1370 | 1575 | 920 | 1290 | 1485 | 920 |
|  |  | $7\frac{11}{16}$ | 1 | (14) 16d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1515 | 1525 | 920 | 1290 | 1485 | 920 |
|  |  | $7\frac{11}{16}$ | 2 | (14) 10d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1370 | 1575 | 920 | 1370 | 1575 | 920 |
|  |  | $7\frac{11}{16}$ | 2 | (14) 16d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1640 | 1650 | 920 | 1640 | 1650 | 920 |
| SUH210 | U210 | $6\frac{1}{16}$ | 1 | (10) 10d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1000 | 1150 | 930 | 1000 | 1150 | 930 |
|  |  | $6\frac{1}{16}$ | 1 | (10) 16d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1100 | 1265 | 930 | 1100 | 1265 | 930 |
|  |  | $6\frac{1}{16}$ | 2 | (10) 10d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1000 | 1150 | 930 | 1000 | 1150 | 930 |
|  |  | $6\frac{1}{16}$ | 2 | (10) 16d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1190 | 1370 | 930 | 1190 | 1370 | 930 |
| HD210 | HU210 | $4\frac{3}{8}$ | 1 | (12) 10d | (4) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1220 | 1405 | 635 | 1200 | 1380 | 635 | 970 | 1115 | 635 |
|  |  | $4\frac{3}{8}$ | 1 | (12) 16d | (4) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1340 | 1540 | 635 | 1200 | 1380 | 635 | 970 | 1115 | 635 |
|  |  | $4\frac{3}{8}$ | 2 | (12) 10d | (4) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1220 | 1405 | 635 | 1220 | 1405 | 635 | 1220 | 1405 | 635 |
|  |  | $4\frac{3}{8}$ | 2 | (12) 16d | (4) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1450 | 1670 | 635 | 1450 | 1670 | 635 | 1450 | 1670 | 635 |
| JUS210 | LUS210 | $4\frac{3}{8}$ | 1 | (8) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1115 | 1285 | 935 | 1115 | 1285 | 935 |
|  |  | $4\frac{3}{8}$ | 2 | (8) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1115 | 1285 | 935 | 1115 | 1285 | 935 |
| HUS210 | HUS210 | $8\frac{7}{16}$ | 1 | (30) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3450 | 3720 | 2265 | 1795 | 2065 | 2265 |
|  |  | $8\frac{7}{16}$ | 1 | (30) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3780 | 4080 | 2690 | 1795 | 2065 | 2690 |
|  |  | $8\frac{7}{16}$ | 2 | (30) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3450 | 3720 | 2265 | 3450 | 3720 | 2265 |
|  |  | $8\frac{7}{16}$ | 2 | (30) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4095 | 4420 | 2690 | 3590 | 4130 | 2690 |
| THD210 | -- -- | $9\frac{1}{16}$ | 1 | (38) 10d | (20) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3245 | 3490 | 2600 | 1650 | 1895 | 2600 |
|  |  | $9\frac{1}{16}$ | 1 | (38) 16d | (20) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3560 | 3825 | 2600 | 1650 | 1895 | 2600 |
|  |  | $9\frac{1}{16}$ | 2 | (38) 10d | (20) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3245 | 3490 | 2600 | 3245 | 3490 | 2600 |
|  |  | $9\frac{1}{16}$ | 2 | (38) 16d | (20) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3855 | 4145 | 2600 | 3300 | 3795 | 2600 |
| MSH29 | THA29 | $3\frac{1}{4}$ | 1 | (18) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1825 | 1885 | 660 | 1485 | 1710 | 660 |
|  |  | $3\frac{1}{4}$ | 2 | (18) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1825 | 1885 | 660 | 1825 | 1885 | 660 |
| **2 Ply Carried Member** | | | | | | | | | | | | | | | | | | | | |
| SUH24-2 | U24-2 | 3 | 1 | (6) 10d | (2) 10d | 600 | 690 | 320 | 600 | 690 | 320 | 600 | 690 | 320 | 600 | 690 | 320 | 600 | 690 | 320 |
|  |  | 3 | 1 | (6) 16d | (2) 16d | 660 | 755 | 320 | 660 | 755 | 320 | 660 | 755 | 320 | 660 | 755 | 320 | 660 | 755 | 320 |
|  |  | 3 | 2 | (6) 10d | (2) 10d | 600 | 690 | 320 | 600 | 690 | 320 | 600 | 690 | 320 | 600 | 690 | 320 | 600 | 690 | 320 |
|  |  | 3 | 2 | (6) 16d | (2) 16d | 715 | 820 | 320 | 715 | 820 | 320 | 715 | 800 | 320 | 715 | 800 | 320 | 715 | 800 | 320 |
| JUS24-2 | LUS24-2 | $2\frac{5}{8}$ | 1 | (4) 10d | (2) 10d | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 |
|  |  | $2\frac{5}{8}$ | 1 | (4) 16d | (2) 16d | 615 | 705 | 270 | 615 | 705 | 270 | 615 | 705 | 270 | 615 | 705 | 270 | 615 | 705 | 270 |
|  |  | $2\frac{5}{8}$ | 2 | (4) 10d | (2) 10d | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 |
|  |  | $2\frac{5}{8}$ | 2 | (4) 16d | (2) 16d | 665 | 765 | 270 | 665 | 765 | 270 | 665 | 765 | 270 | 665 | 765 | 270 | 665 | 765 | 270 |
| HUS24-2 | -- -- | $2\frac{5}{8}$ | 1 | (4) 10d | (2) 10d | 575 | 660 | 350 | 575 | 660 | 350 | 575 | 660 | 350 | 575 | 660 | 350 | 575 | 660 | 350 |
|  |  | $2\frac{5}{8}$ | 1 | (4) 16d | (2) 16d | 630 | 725 | 415 | 630 | 725 | 415 | 630 | 725 | 415 | 630 | 725 | 415 | 630 | 725 | 415 |
|  |  | $2\frac{5}{8}$ | 2 | (4) 10d | (2) 10d | 575 | 660 | 350 | 575 | 660 | 350 | 575 | 660 | 350 | 575 | 660 | 350 | 575 | 660 | 350 |
|  |  | $2\frac{5}{8}$ | 2 | (4) 16d | (2) 16d | 680 | 785 | 415 | 680 | 785 | 415 | 680 | 785 | 415 | 680 | 785 | 415 | 680 | 785 | 415 |
| SUH26-2 | U26-2 | $4\frac{11}{16}$ | 1 | (8) 10d | (4) 10d | --- | --- | --- | 800 | 920 | 640 | 800 | 850 | 640 | 800 | 800 | 640 | 800 | 800 | 640 |
|  |  | $4\frac{11}{16}$ | 1 | (8) 16d | (4) 16d | --- | --- | --- | 875 | 1010 | 640 | 800 | 850 | 640 | 800 | 800 | 640 | 800 | 800 | 640 |
|  |  | $4\frac{11}{16}$ | 2 | (8) 10d | (4) 10d | --- | --- | --- | 800 | 920 | 640 | 800 | 920 | 640 | 800 | 800 | 640 | 800 | 800 | 640 |
|  |  | $4\frac{11}{16}$ | 2 | (8) 16d | (4) 16d | --- | --- | --- | 950 | 1095 | 640 | 950 | 1095 | 640 | 950 | 1095 | 640 | 800 | 800 | 640 |
| HD26-2 | HU26-2 | $5\frac{3}{16}$ | 1 | (12) 10d | (6) 10d | --- | --- | --- | 1220 | 1405 | 990 | 800 | 815 | 990 | 800 | 800 | 990 | 800 | 800 | 990 |
|  |  | $5\frac{3}{16}$ | 1 | (12) 16d | (6) 16d | --- | --- | --- | 1340 | 1540 | 990 | 800 | 815 | 990 | 800 | 800 | 990 | 800 | 800 | 990 |
|  |  | $5\frac{3}{16}$ | 2 | (12) 10d | (6) 10d | --- | --- | --- | 1220 | 1405 | 990 | 1220 | 1405 | 990 | 1220 | 1405 | 990 | 800 | 800 | 990 |
|  |  | $5\frac{3}{16}$ | 2 | (12) 16d | (6) 16d | --- | --- | --- | 1450 | 1670 | 990 | 1420 | 1630 | 990 | 1285 | 1475 | 990 | 800 | 800 | 990 |
| JUS26-2 | LUS26-2 | $4\frac{13}{16}$ | 1 | (4) 10d | (4) 10d | --- | --- | --- | 720 | 830 | 950 | 720 | 830 | 950 | 720 | 800 | 950 | 720 | 800 | 950 |
|  |  | $4\frac{13}{16}$ | 1 | (4) 16d | (4) 16d | --- | --- | --- | 800 | 920 | 1140 | 800 | 920 | 1140 | 800 | 800 | 1140 | 800 | 800 | 1140 |
|  |  | $4\frac{13}{16}$ | 2 | (4) 10d | (4) 10d | --- | --- | --- | 720 | 830 | 950 | 720 | 830 | 950 | 720 | 830 | 950 | 720 | 800 | 950 |
|  |  | $4\frac{13}{16}$ | 2 | (4) 16d | (4) 16d | --- | --- | --- | 865 | 995 | 1140 | 865 | 995 | 1140 | 865 | 995 | 1140 | 800 | 800 | 1140 |
| HUS26-2 | HUS26-2 | $4\frac{13}{16}$ | 1 | (4) 10d | (4) 10d | --- | --- | --- | 740 | 850 | 785 | 740 | 850 | 785 | 740 | 800 | 785 | 740 | 800 | 785 |
|  |  | $4\frac{13}{16}$ | 1 | (4) 16d | (4) 16d | --- | --- | --- | 810 | 930 | 935 | 805 | 925 | 935 | 800 | 800 | 935 | 800 | 800 | 935 |
|  |  | $4\frac{13}{16}$ | 2 | (4) 10d | (4) 10d | --- | --- | --- | 740 | 850 | 785 | 740 | 850 | 785 | 740 | 850 | 785 | 740 | 800 | 785 |
|  |  | $4\frac{13}{16}$ | 2 | (4) 16d | (4) 16d | --- | --- | --- | 880 | 1010 | 935 | 880 | 1010 | 935 | 880 | 1010 | 935 | 800 | 800 | 935 |

See footnotes on page 7.

# USP STRUCTURAL CONNECTORS
## ENGINEERED PRODUCTS/ENGINEERING SERVICES

# ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

| USP Stock No. | Ref. No. | Min. Heel Height (in) | No. of Supporting Member Plies | Fasteners Supporting Member | Fasteners Supported Member | 2 x 4 Download 100% | 115% | Uplift 160% | 2 x 6 Download 100% | 115% | Uplift 160% | 2 x 8 Download 100% | 115% | Uplift 160% | 2 x 10 Download 100% | 115% | Uplift 160% | 2 x 12 Download 100% | 115% | Uplift 160% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 Ply Carried Member | | | | | | | | | | | | | | | | | | | | |
| THD26-2 | HHUS26-2 | $5\frac{3}{8}$ | 1 | (18) 10d | (12) 10d | --- | --- | --- | 1835 | 2110 | 1980 | 835 | 960 | 1980 | 800 | 805 | 1980 | 800 | 800 | 1980 |
| | | $5\frac{3}{8}$ | 1 | (18) 16d | (12) 16d | --- | --- | --- | 2010 | 2310 | 1980 | 835 | 960 | 1980 | 800 | 805 | 1980 | 800 | 800 | 1980 |
| | | $5\frac{3}{8}$ | 2 | (18) 10d | (12) 10d | --- | --- | --- | 1835 | 2110 | 1980 | 1670 | 1920 | 1980 | 1400 | 1610 | 1980 | 800 | 800 | 1980 |
| | | $5\frac{3}{8}$ | 2 | (18) 16d | (12) 16d | --- | --- | --- | 2180 | 2505 | 1980 | 1670 | 1920 | 1980 | 1400 | 1610 | 1980 | 800 | 800 | 1980 |
| THDH26-2 | HGUS26-2 | $4\frac{15}{16}$ | 1 | (22) 10d | (8) 10d | --- | --- | --- | 2840 | 3265 | 1585 | 835 | 960 | 1585 | 800 | 805 | 1585 | 800 | 800 | 1585 |
| | | $4\frac{15}{16}$ | 1 | (22) 16d | (8) 16d | --- | --- | --- | 3110 | 3580 | 1880 | 835 | 960 | 1880 | 800 | 805 | 1880 | 800 | 800 | 1880 |
| | | $4\frac{15}{16}$ | 2 | (22) 10d | (8) 10d | --- | --- | --- | 2840 | 3265 | 1585 | 1670 | 1920 | 1585 | 1400 | 1610 | 1585 | 800 | 800 | 1585 |
| | | $4\frac{15}{16}$ | 2 | (22) 16d | (8) 16d | --- | --- | --- | 3370 | 3880 | 1880 | 1670 | 1920 | 1880 | 1400 | 1610 | 1880 | 800 | 800 | 1880 |
| SUH28-2 | -- -- | $4\frac{11}{16}$ | 1 | (10) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | 1000 | 1150 | 640 | 880 | 1010 | 640 | 810 | 930 | 640 |
| | | $4\frac{11}{16}$ | 1 | (10) 16d | (4) 16d | --- | --- | --- | --- | --- | --- | 1100 | 1265 | 640 | 880 | 1010 | 640 | 810 | 930 | 640 |
| | | $4\frac{11}{16}$ | 2 | (10) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | 1000 | 1150 | 640 | 1000 | 1150 | 640 | 1000 | 1150 | 640 |
| | | $4\frac{11}{16}$ | 2 | (10) 16d | (4) 16d | --- | --- | --- | --- | --- | --- | 1190 | 1370 | 640 | 1190 | 1370 | 640 | 1190 | 1370 | 640 |
| HD28-2 | HU28-2 | $5\frac{5}{16}$ | 1 | (14) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | 1425 | 1640 | 990 | 1155 | 1330 | 990 | 950 | 1090 | 990 |
| | | $5\frac{5}{16}$ | 1 | (14) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | 1565 | 1800 | 990 | 1155 | 1330 | 990 | 950 | 1090 | 990 |
| | | $5\frac{5}{16}$ | 2 | (14) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | 1425 | 1640 | 990 | 1425 | 1640 | 990 | 1425 | 1640 | 990 |
| | | $5\frac{5}{16}$ | 2 | (14) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | 1695 | 1950 | 990 | 1695 | 1950 | 990 | 1695 | 1950 | 990 |
| JUS28-2 | LUS28-2 | $4\frac{13}{16}$ | 1 | (6) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | 915 | 1055 | 950 | 915 | 1055 | 950 | 915 | 1055 | 950 |
| | | $4\frac{13}{16}$ | 1 | (6) 16d | (4) 16d | --- | --- | --- | --- | --- | --- | 1015 | 1170 | 1140 | 1015 | 1170 | 1140 | 975 | 1125 | 1140 |
| | | $4\frac{13}{16}$ | 2 | (6) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | 915 | 1055 | 950 | 915 | 1055 | 950 | 915 | 1055 | 950 |
| | | $4\frac{13}{16}$ | 2 | (6) 16d | (4) 16d | --- | --- | --- | --- | --- | --- | 1100 | 1265 | 1140 | 1100 | 1265 | 1140 | 1100 | 1265 | 1140 |
| HUS28-2 | HUS28-2 | $6\frac{5}{8}$ | 1 | (6) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | 1110 | 1280 | 1280 | 1110 | 1280 | 1280 | 975 | 1125 | 1280 |
| | | $6\frac{5}{8}$ | 1 | (6) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | 1220 | 1405 | 1520 | 1215 | 1400 | 1520 | 975 | 1125 | 1520 |
| | | $6\frac{5}{8}$ | 2 | (6) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | 1110 | 1280 | 1280 | 1110 | 1280 | 1280 | 1110 | 1280 | 1280 |
| | | $6\frac{5}{8}$ | 2 | (6) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | 1320 | 1520 | 1520 | 1320 | 1520 | 1520 | 1320 | 1520 | 1520 |
| THD28-2 | HHUS28-2 | $7\frac{1}{8}$ | 1 | (28) 10d | (16) 10d | --- | --- | --- | --- | --- | --- | 2855 | 3280 | 2180 | 1215 | 1400 | 2180 | 975 | 1125 | 2180 |
| | | $7\frac{1}{8}$ | 1 | (28) 16d | (16) 16d | --- | --- | --- | --- | --- | --- | 3130 | 3595 | 2180 | 1215 | 1400 | 2180 | 975 | 1125 | 2180 |
| | | $7\frac{1}{8}$ | 2 | (28) 10d | (16) 10d | --- | --- | --- | --- | --- | --- | 2855 | 3280 | 2180 | 2430 | 2795 | 2180 | 1950 | 2245 | 2180 |
| | | $7\frac{1}{8}$ | 2 | (28) 16d | (16) 16d | --- | --- | --- | --- | --- | --- | 3390 | 3895 | 2180 | 2430 | 2795 | 2180 | 1950 | 2245 | 2180 |
| THDH28-2 | HGUS28-2 | $6\frac{13}{16}$ | 1 | (36) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | 4745 | 5455 | 1885 | 1215 | 1400 | 1885 | 975 | 1125 | 1885 |
| | | $6\frac{13}{16}$ | 1 | (36) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | 5200 | 5980 | 2240 | 1215 | 1400 | 2240 | 975 | 1125 | 2240 |
| | | $6\frac{13}{16}$ | 2 | (36) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | 4745 | 5455 | 1885 | 2430 | 2795 | 1885 | 1950 | 2245 | 1885 |
| | | $6\frac{13}{16}$ | 2 | (36) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | 5635 | 6480 | 2240 | 2430 | 2795 | 2240 | 1950 | 2245 | 2240 |
| SUH210-2 | U210-2 | 8 | 1 | (14) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1400 | 1610 | 960 | 1400 | 1610 | 960 |
| | | 8 | 1 | (14) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1535 | 1770 | 960 | 1470 | 1695 | 960 |
| | | 8 | 2 | (14) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1400 | 1610 | 960 | 1400 | 1610 | 960 |
| | | 8 | 2 | (14) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1665 | 1915 | 960 | 1665 | 1915 | 960 |
| HD210-2 | HU210-2 | $8\frac{7}{8}$ | 1 | (18) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1835 | 2110 | 1650 | 1710 | 1965 | 1650 |
| | | $8\frac{7}{8}$ | 1 | (18) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2010 | 2310 | 1650 | 1710 | 1965 | 1650 |
| | | $8\frac{7}{8}$ | 2 | (18) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1835 | 2110 | 1650 | 1835 | 2110 | 1650 |
| | | $8\frac{7}{8}$ | 2 | (18) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2180 | 2505 | 1650 | 2180 | 2505 | 1650 |
| JUS210-2 | LUS210-2 | $8\frac{5}{8}$ | 1 | (8) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1275 | 1465 | 1385 | 1275 | 1465 | 1385 |
| | | $8\frac{5}{8}$ | 1 | (8) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1410 | 1625 | 1665 | 1410 | 1625 | 1665 |
| | | $8\frac{5}{8}$ | 2 | (8) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1275 | 1465 | 1385 | 1275 | 1465 | 1385 |
| | | $8\frac{5}{8}$ | 2 | (8) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1530 | 1760 | 1665 | 1530 | 1760 | 1665 |
| HUS210-2 | HUS210-2 | $8\frac{5}{8}$ | 1 | (8) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1480 | 1705 | 1560 | 1480 | 1705 | 1560 |
| | | $8\frac{5}{8}$ | 1 | (8) 16d | (8) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1625 | 1870 | 1855 | 1625 | 1870 | 1855 |
| | | $8\frac{5}{8}$ | 2 | (8) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1480 | 1705 | 1560 | 1480 | 1705 | 1560 |
| | | $8\frac{5}{8}$ | 2 | (8) 16d | (8) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1760 | 2025 | 1855 | 1760 | 2025 | 1855 |
| THD210-2 | HHUS210-2 | $9\frac{1}{8}$ | 1 | (38) 10d | (20) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3875 | 4455 | 3235 | 1800 | 2065 | 3235 |
| | | $9\frac{1}{8}$ | 1 | (38) 16d | (20) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4245 | 4885 | 3235 | 1800 | 2065 | 3235 |
| | | $9\frac{1}{8}$ | 2 | (38) 10d | (20) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3875 | 4455 | 3235 | 3595 | 4135 | 3235 |
| | | $9\frac{1}{8}$ | 2 | (38) 16d | (20) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4600 | 5290 | 3235 | 3595 | 4135 | 3235 |
| THDH210-2 | HGUS210-2 | $8\frac{11}{16}$ | 1 | (46) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5840 | 5840 | 2465 | 1800 | 2065 | 2465 |
| | | $8\frac{11}{16}$ | 1 | (46) 16d | (12) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6400 | 6400 | 2930 | 1800 | 2065 | 2930 |
| | | $8\frac{11}{16}$ | 2 | (46) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5840 | 5840 | 2465 | 3595 | 4135 | 2465 |
| | | $8\frac{11}{16}$ | 2 | (46) 16d | (12) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6935 | 6935 | 2930 | 3595 | 4135 | 2930 |

**See footnotes on page 7.**

# ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

| USP Stock No. | Ref. No. | Min. Heel Height (in) | No. of Supporting Member Plies | Fasteners Supporting Member | Fasteners Supported Member | 2 x 4 Download 100% | 2 x 4 Download 115% | 2 x 4 Uplift 160% | 2 x 6 Download 100% | 2 x 6 Download 115% | 2 x 6 Uplift 160% | 2 x 8 Download 100% | 2 x 8 Download 115% | 2 x 8 Uplift 160% | 2 x 10 Download 100% | 2 x 10 Download 115% | 2 x 10 Uplift 160% | 2 x 12 Download 100% | 2 x 12 Download 115% | 2 x 12 Uplift 160% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3 Ply Carried Member** | | | | | | | | | | | | | | | | | | | | |
| JUS26-3 | LUS26-3 | 4 1/16 | 1 | (4) 10d | (4) 10d | --- | --- | --- | 720 | 830 | 950 | 720 | 800 | 950 | 720 | 800 | 950 | 720 | 800 | 950 |
| | | 4 1/16 | 1 | (4) 16d | (4) 16d | --- | --- | --- | 800 | 920 | 1140 | 800 | 800 | 1140 | 800 | 800 | 1140 | 800 | 800 | 1140 |
| | | 4 1/16 | 2 | (4) 10d | (4) 10d | --- | --- | --- | 720 | 830 | 950 | 720 | 830 | 950 | 720 | 800 | 950 | 720 | 800 | 950 |
| | | 4 1/16 | 2 | (4) 16d | (4) 16d | --- | --- | --- | 865 | 995 | 1140 | 865 | 995 | 1140 | 800 | 800 | 1140 | 800 | 800 | 1140 |
| THDH26-3 | HGUS26-3 | 4 7/8 | 1 | (20) 10d | (8) 10d | --- | --- | --- | 2840 | 3265 | 1585 | 835 | 960 | 1585 | 800 | 805 | 1585 | 800 | 800 | 1585 |
| | | 4 7/8 | 1 | (20) 16d | (8) 16d | --- | --- | --- | 3110 | 3580 | 1880 | 835 | 960 | 1880 | 800 | 805 | 1880 | 800 | 800 | 1880 |
| | | 4 7/8 | 2 | (20) 10d | (8) 10d | --- | --- | --- | 2840 | 3265 | 1585 | 1670 | 1920 | 1585 | 1400 | 1610 | 1585 | 800 | 800 | 1585 |
| | | 4 7/8 | 2 | (20) 16d | (8) 16d | --- | --- | --- | 3370 | 3880 | 1880 | 1670 | 1920 | 1880 | 1400 | 1610 | 1880 | 800 | 800 | 1880 |
| JUS28-3 | LUS28-3 | 4 1/16 | 1 | (6) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | 915 | 1055 | 950 | 915 | 1055 | 950 | 835 | 960 | 950 |
| | | 4 1/16 | 1 | (6) 16d | (4) 16d | --- | --- | --- | --- | --- | --- | 1015 | 1170 | 1140 | 925 | 1065 | 1140 | 835 | 960 | 1140 |
| | | 4 1/16 | 2 | (6) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | 915 | 1055 | 950 | 915 | 1055 | 950 | 915 | 1055 | 950 |
| | | 4 1/16 | 2 | (6) 16d | (4) 16d | --- | --- | --- | --- | --- | --- | 1100 | 1265 | 1140 | 1100 | 1265 | 1140 | 1100 | 1265 | 1140 |
| THDH28-3 | HGUS28-3 | 7 1/4 | 1 | (36) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | 4910 | 5645 | 1885 | 1215 | 1400 | 1885 | 975 | 1125 | 1885 |
| | | 7 1/4 | 1 | (36) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | 5380 | 6190 | 2240 | 1215 | 1400 | 2240 | 975 | 1125 | 2240 |
| | | 7 1/4 | 2 | (36) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | 4910 | 5645 | 1885 | 2430 | 2795 | 1885 | 1955 | 2245 | 1885 |
| | | 7 1/4 | 2 | (36) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | 5830 | 6705 | 2240 | 2430 | 2795 | 2240 | 1955 | 2245 | 2240 |
| JUS210-3 | LUS210-3 | 7 7/8 | 1 | (8) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1275 | 1465 | 1385 | 1275 | 1465 | 1385 |
| | | 7 7/8 | 1 | (8) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1410 | 1625 | 1665 | 1365 | 1570 | 1665 |
| | | 7 7/8 | 2 | (8) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1275 | 1465 | 1385 | 1275 | 1465 | 1385 |
| | | 7 7/8 | 2 | (8) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1530 | 1760 | 1665 | 1530 | 1760 | 1665 |
| THD210-3 | HHUS210-3 | 8 7/8 | 1 | (38) 10d | (20) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4125 | 4745 | 3235 | 1625 | 1870 | 3235 |
| | | 8 7/8 | 1 | (38) 16d | (20) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4525 | 5200 | 3235 | 1625 | 1870 | 3235 |
| | | 8 7/8 | 2 | (38) 10d | (20) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4125 | 4745 | 3235 | 3255 | 3745 | 3235 |
| | | 8 7/8 | 2 | (38) 16d | (20) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4900 | 5635 | 3235 | 3255 | 3745 | 3235 |
| THDH210-3 | HGUS210-3 | 8 1/4 | 1 | (46) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6335 | 6970 | 3230 | 1800 | 2065 | 3230 |
| | | 8 1/4 | 1 | (46) 16d | (12) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6940 | 7640 | 3835 | 1800 | 2065 | 3835 |
| | | 8 1/4 | 2 | (46) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6335 | 6970 | 3230 | 3595 | 4135 | 3230 |
| | | 8 1/4 | 2 | (46) 16d | (12) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7520 | 8275 | 3835 | 3595 | 4135 | 3835 |
| **4x Connectors** | | | | | | | | | | | | | | | | | | | | |
| JUS44 | LUS44 | 2 3/8 | 1 | (4) 10d | (2) 10d | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 |
| | | 2 3/8 | 1 | (4) 16d | (2) 16d | 615 | 705 | 270 | 615 | 705 | 270 | 615 | 705 | 270 | 615 | 705 | 270 | 615 | 705 | 270 |
| | | 2 3/8 | 2 | (4) 10d | (2) 10d | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 | 555 | 635 | 225 |
| | | 2 3/8 | 2 | (4) 16d | (2) 16d | 665 | 765 | 270 | 665 | 765 | 270 | 665 | 765 | 270 | 665 | 765 | 270 | 665 | 765 | 270 |
| JUS46 | LUS46 | 4 9/16 | 1 | (4) 10d | (4) 10d | --- | --- | --- | 720 | 830 | 950 | 720 | 830 | 950 | 720 | 800 | 950 | 720 | 800 | 950 |
| | | 4 9/16 | 1 | (4) 16d | (4) 16d | --- | --- | --- | 800 | 920 | 1140 | 800 | 830 | 1140 | 800 | 800 | 1140 | 800 | 800 | 1140 |
| | | 4 9/16 | 2 | (4) 10d | (4) 10d | --- | --- | --- | 720 | 830 | 950 | 720 | 830 | 950 | 720 | 830 | 950 | 720 | 800 | 950 |
| | | 4 9/16 | 2 | (4) 16d | (4) 16d | --- | --- | --- | 865 | 995 | 1140 | 865 | 995 | 1140 | 865 | 995 | 1140 | 800 | 800 | 1140 |
| HUS46 | HUS46 | 4 9/16 | 1 | (4) 10d | (4) 10d | --- | --- | --- | 740 | 850 | 785 | 740 | 830 | 785 | 740 | 800 | 785 | 740 | 800 | 785 |
| | | 4 9/16 | 1 | (4) 16d | (4) 16d | --- | --- | --- | 810 | 930 | 935 | 800 | 830 | 935 | 800 | 800 | 935 | 800 | 800 | 935 |
| | | 4 9/16 | 2 | (4) 10d | (4) 10d | --- | --- | --- | 740 | 850 | 785 | 740 | 850 | 785 | 740 | 850 | 785 | 740 | 800 | 785 |
| | | 4 9/16 | 2 | (4) 16d | (4) 16d | --- | --- | --- | 880 | 1010 | 935 | 880 | 1010 | 935 | 880 | 1010 | 935 | 800 | 800 | 935 |
| THD46 | HHUS46 | 5 5/16 | 1 | (18) 10d | (12) 10d | --- | --- | --- | 1835 | 2110 | 1980 | 810 | 935 | 1980 | 800 | 800 | 1980 | 800 | 800 | 1980 |
| | | 5 5/16 | 1 | (18) 16d | (12) 16d | --- | --- | --- | 2010 | 2310 | 1980 | 810 | 935 | 1980 | 800 | 800 | 1980 | 800 | 800 | 1980 |
| | | 5 5/16 | 2 | (18) 10d | (12) 10d | --- | --- | --- | 1835 | 2110 | 1980 | 1620 | 1865 | 1980 | 1380 | 1585 | 1980 | 800 | 800 | 1980 |
| | | 5 5/16 | 2 | (18) 16d | (12) 16d | --- | --- | --- | 2180 | 2505 | 1980 | 1620 | 1865 | 1980 | 1380 | 1585 | 1980 | 800 | 800 | 1980 |
| THDH46 | HGUS46 | 4 3/4 | 1 | (22) 10d | (8) 10d | --- | --- | --- | 2840 | 3265 | 1845 | 800 | 905 | 1845 | 800 | 800 | 1845 | 800 | 800 | 1845 |
| | | 4 3/4 | 1 | (22) 16d | (8) 16d | --- | --- | --- | 3110 | 3580 | 2190 | 800 | 905 | 2190 | 800 | 800 | 2190 | 800 | 800 | 2190 |
| | | 4 3/4 | 2 | (22) 10d | (8) 10d | --- | --- | --- | 2840 | 3265 | 1845 | 1575 | 1810 | 1845 | 1360 | 1560 | 1845 | 800 | 800 | 1845 |
| | | 4 3/4 | 2 | (22) 16d | (8) 16d | --- | --- | --- | 3370 | 3880 | 2190 | 1575 | 1810 | 2190 | 1360 | 1560 | 2190 | 800 | 800 | 2190 |
| HD48 | HU48 | 4 15/16 | 1 | (14) 10d | (6) 16d | --- | --- | --- | 1425 | 1640 | 990 | 1060 | 1220 | 990 | 1060 | 1220 | 990 | 905 | 1040 | 990 |
| | | 4 15/16 | 1 | (14) 16d | (6) 16d | --- | --- | --- | 1565 | 1800 | 990 | 1060 | 1220 | 990 | 1060 | 1220 | 990 | 905 | 1040 | 990 |
| | | 4 15/16 | 2 | (14) 10d | (6) 16d | --- | --- | --- | --- | --- | --- | 1425 | 1640 | 990 | 1425 | 1640 | 990 | 1425 | 1640 | 990 |
| | | 4 15/16 | 2 | (14) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | 1695 | 1950 | 990 | 1695 | 1950 | 990 | 1695 | 1950 | 990 |
| JUS48 | LUS48 | 4 9/16 | 1 | (6) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 915 | 1055 | 950 | 915 | 1055 | 950 |
| | | 4 9/16 | 1 | (6) 16d | (4) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1015 | 1170 | 1140 | 925 | 1060 | 1140 |
| | | 4 9/16 | 2 | (6) 10d | (4) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 915 | 1055 | 950 | 915 | 1055 | 950 |
| | | 4 9/16 | 2 | (6) 16d | (4) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1100 | 1265 | 1140 | 1100 | 1265 | 1140 |
| HUS48 | HUS48 | 6 1/4 | 1 | (6) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | 1110 | 1280 | 1280 | 1050 | 1210 | 1280 | 900 | 1035 | 1280 |
| | | 6 1/4 | 1 | (6) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | 1220 | 1405 | 1520 | 1050 | 1210 | 1520 | 900 | 1035 | 1520 |
| | | 6 1/4 | 2 | (6) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | 1110 | 1280 | 1280 | 1110 | 1280 | 1280 | 1110 | 1280 | 1280 |
| | | 6 1/4 | 2 | (6) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | 1320 | 1520 | 1520 | 1320 | 1520 | 1520 | 1320 | 1520 | 1520 |

See footnotes on page 7.

# USP STRUCTURAL CONNECTORS
## ENGINEERED PRODUCTS/ENGINEERING SERVICES

# ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

| USP Stock No. | Ref. No. | Min. Heel Height (in) | No. of Supporting Member Plies | Fasteners Supporting Member | Fasteners Supported Member | 2 x 4 Supporting Member Download 100% | 2 x 4 115% | 2 x 4 Uplift 160% | 2 x 6 Download 100% | 2 x 6 115% | 2 x 6 Uplift 160% | 2 x 8 Download 100% | 2 x 8 115% | 2 x 8 Uplift 160% | 2 x 10 Download 100% | 2 x 10 115% | 2 x 10 Uplift 160% | 2 x 12 Download 100% | 2 x 12 115% | 2 x 12 Uplift 160% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **4x Connectors** | | | | | | | | | | | | | | | | | | | | |
| THD48 | HHUS48 | $7^1/_{16}$ | 1 | (28) 10d | (16) 10d | --- | --- | --- | --- | --- | --- | 2855 | 3280 | 2180 | 1185 | 1365 | 2180 | 965 | 1105 | 2180 |
| | | $7^1/_{16}$ | 1 | (28) 16d | (16) 16d | --- | --- | --- | --- | --- | --- | 3130 | 3595 | 2180 | 1185 | 1365 | 2180 | 965 | 1105 | 2180 |
| | | $7^1/_{16}$ | 2 | (28) 10d | (16) 10d | --- | --- | --- | --- | --- | --- | 2855 | 3280 | 2180 | 2370 | 2725 | 2180 | 1925 | 2215 | 2180 |
| | | $7^1/_{16}$ | 2 | (28) 16d | (16) 16d | --- | --- | --- | --- | --- | --- | 3390 | 3895 | 2180 | 2370 | 2725 | 2180 | 1925 | 2215 | 2180 |
| THDH48 | HGUS48 | $6^5/_8$ | 1 | (36) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | 4745 | 5455 | 2255 | 1155 | 1330 | 2255 | 950 | 1090 | 2255 |
| | | $6^5/_8$ | 1 | (36) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | 5200 | 5980 | 2675 | 1155 | 1330 | 2675 | 950 | 1090 | 2675 |
| | | $6^5/_8$ | 2 | (36) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | 4745 | 5455 | 2255 | 2315 | 2660 | 2255 | 1900 | 2185 | 2255 |
| | | $6^5/_8$ | 2 | (36) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | 5635 | 6480 | 2675 | 2315 | 2660 | 2675 | 1900 | 2185 | 2675 |
| SUH410 | U410 | $7^3/_4$ | 1 | (14) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1400 | 1610 | 960 | 1370 | 1575 | 960 |
| | | $7^3/_4$ | 1 | (14) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1535 | 1770 | 960 | 1370 | 1575 | 960 |
| | | $7^3/_4$ | 2 | (14) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1400 | 1610 | 960 | 1400 | 1610 | 960 |
| | | $7^3/_4$ | 2 | (14) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1665 | 1915 | 960 | 1665 | 1915 | 960 |
| JUS410 | LUS410 | $8^3/_8$ | 1 | (8) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1275 | 1465 | 1385 | 1275 | 1465 | 1385 |
| | | $8^3/_8$ | 1 | (8) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1410 | 1625 | 1665 | 1410 | 1625 | 1665 |
| | | $8^3/_8$ | 2 | (8) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1275 | 1465 | 1385 | 1275 | 1465 | 1385 |
| | | $8^3/_8$ | 2 | (8) 16d | (6) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1530 | 1760 | 1665 | 1530 | 1760 | 1665 |
| HUS410 | HUS410 | $8^3/_8$ | 1 | (8) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1480 | 1705 | 1560 | 1480 | 1705 | 1560 |
| | | $8^3/_8$ | 1 | (8) 16d | (8) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1625 | 1870 | 1855 | 1625 | 1870 | 1855 |
| | | $8^3/_8$ | 2 | (8) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1480 | 1705 | 1560 | 1480 | 1705 | 1560 |
| | | $8^3/_8$ | 2 | (8) 16d | (8) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1760 | 2025 | 1855 | 1760 | 2025 | 1855 |
| THD410 | HHUS410 | $9^1/_{16}$ | 1 | (38) 10d | (20) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3875 | 4455 | 3235 | 1755 | 2015 | 3235 |
| | | $9^1/_{16}$ | 1 | (38) 16d | (20) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4245 | 4885 | 3235 | 1755 | 2015 | 3235 |
| | | $9^1/_{16}$ | 2 | (38) 10d | (20) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3875 | 4455 | 3235 | 3505 | 4030 | 3235 |
| | | $9^1/_{16}$ | 2 | (38) 16d | (20) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4600 | 5290 | 3235 | 3505 | 4030 | 3235 |
| THDH410 | HGUS410 | $8^1/_2$ | 1 | (46) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5995 | 6375 | 2810 | 1705 | 1960 | 2810 |
| | | $8^1/_2$ | 1 | (46) 16d | (12) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6570 | 6990 | 3335 | 1705 | 1960 | 3335 |
| | | $8^1/_2$ | 2 | (46) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5995 | 6375 | 2810 | 3410 | 3925 | 2810 |
| | | $8^1/_2$ | 2 | (46) 16d | (12) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7120 | 7570 | 3335 | 3410 | 3925 | 3335 |
| THDH412 | HGUS412 | $10^1/_2$ | 1 | (56) 10d | (14) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6965 | 6965 | 3695 |
| | | $10^1/_2$ | 1 | (56) 16d | (14) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7635 | 7635 | 4390 |
| | | $10^1/_2$ | 2 | (56) 10d | (14) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6965 | 6965 | 3695 |
| | | $10^1/_2$ | 2 | (56) 16d | (14) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8270 | 8270 | 4390 |
| **Miscellaneous** | | | | | | | | | | | | | | | | | | | | |
| HD17925 | HU9 | 8 | 1 | (18) 10d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1750 | 1825 | 895 | 1690 | 1825 | 895 |
| | | 8 | 1 | (18) 16d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1920 | 2005 | 895 | 1690 | 1940 | 895 |
| | | 8 | 2 | (18) 10d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1750 | 1825 | 895 | 1750 | 1825 | 895 |
| | | 8 | 2 | (18) 16d | (6) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2080 | 2170 | 895 | 2080 | 2170 | 895 |
| THDH610 | HGUS5.50/10 | $8^{13}/_{16}$ | 1 | (46) 10d | (16) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6335 | 6970 | 3230 | 1660 | 1910 | 3230 |
| | | $8^{13}/_{16}$ | 1 | (46) 16d | (16) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6940 | 7640 | 3835 | 1660 | 1910 | 3835 |
| | | $8^{13}/_{16}$ | 2 | (46) 10d | (16) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6335 | 6970 | 3230 | 3320 | 3815 | 3230 |
| | | $8^{13}/_{16}$ | 2 | (46) 16d | (16) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7520 | 8275 | 3835 | 3320 | 3815 | 3835 |
| THDH7210 | HGUS7.25/10 | $8^{15}/_{16}$ | 1 | (46) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5995 | 6375 | 2810 | 1590 | 1830 | 2810 |
| | | $8^{15}/_{16}$ | 1 | (46) 16d | (12) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6570 | 6990 | 3335 | 1590 | 1830 | 3335 |
| | | $8^{15}/_{16}$ | 2 | (46) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5995 | 6375 | 2810 | 3180 | 3655 | 2810 |
| | | $8^{15}/_{16}$ | 2 | (46) 16d | (12) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7120 | 7570 | 3335 | 3180 | 3655 | 3335 |
| **45° Skewed Connectors** | | | | | | | | | | | | | | | | | | | | |
| SKH24L/R | SUR/L24 | $3^1/_4$ | 1 | (4) 10d | (4) 10d x 1 1/2 | 400 | 430 | 565 | 400 | 430 | 565 | 400 | 430 | 565 | 400 | 430 | 565 | 400 | 430 | 565 |
| | | $3^1/_4$ | 1 | (4) 16d | (4) 10d x 1 1/2 | 440 | 470 | 565 | 440 | 470 | 565 | 440 | 470 | 565 | 440 | 470 | 565 | 440 | 470 | 565 |
| | | $3^1/_4$ | 2 | (4) 10d | (4) 10d x 1 1/2 | 400 | 430 | 565 | 400 | 430 | 565 | 400 | 430 | 565 | 400 | 430 | 565 | 400 | 430 | 565 |
| | | $3^1/_4$ | 2 | (4) 16d | (4) 10d x 1 1/2 | 475 | 510 | 565 | 475 | 510 | 565 | 475 | 510 | 565 | 475 | 510 | 565 | 475 | 510 | 565 |
| SKH26L/R | SUR/L26 | $4^3/_8$ | 1 | (6) 10d | (6) 10d x 1 1/2 | --- | --- | --- | 600 | 690 | 930 | 600 | 690 | 930 | 600 | 690 | 930 | 600 | 690 | 930 |
| | | $4^3/_8$ | 1 | (6) 16d | (6) 10d x 1 1/2 | --- | --- | --- | 660 | 755 | 930 | 660 | 755 | 930 | 660 | 755 | 930 | 660 | 755 | 930 |
| | | $4^3/_8$ | 2 | (6) 10d | (6) 10d x 1 1/2 | --- | --- | --- | 600 | 690 | 930 | 600 | 690 | 930 | 600 | 690 | 930 | 600 | 690 | 930 |
| | | $4^3/_8$ | 2 | (6) 16d | (6) 10d x 1 1/2 | --- | --- | --- | 715 | 820 | 930 | 715 | 820 | 930 | 715 | 800 | 930 | 715 | 800 | 930 |

See footnotes on page 7.

# ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

| USP Stock No. | Ref. No. | Min. Heel Height (in) | No. of Supporting Member Plies | Fasteners: Supporting Member | Fasteners: Supported Member | 2x4 Dl 100% | 2x4 Dl 115% | 2x4 Uplift 160% | 2x6 Dl 100% | 2x6 Dl 115% | 2x6 Uplift 160% | 2x8 Dl 100% | 2x8 Dl 115% | 2x8 Uplift 160% | 2x10 Dl 100% | 2x10 Dl 115% | 2x10 Uplift 160% | 2x12 Dl 100% | 2x12 Dl 115% | 2x12 Uplift 160% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **45° Skewed Connectors** | | | | | | | | | | | | | | | | | | | | |
| SKHH26L/R | -- -- | 5 | 1 | (18) 10d | (12) 10d x 1 1/2 | --- | --- | --- | 1100 | 1265 | 1900 | 800 | 815 | 1900 | 800 | 800 | 1900 | 800 | 800 | 1900 |
| | | 5 | 1 | (18) 16d | (12) 10d x 1 1/2 | --- | --- | --- | 1205 | 1390 | 1900 | 800 | 815 | 1900 | 800 | 800 | 1900 | 800 | 800 | 1900 |
| | | 5 | 2 | (18) 10d | (12) 10d x 1 1/2 | --- | --- | --- | 1100 | 1265 | 1900 | 1100 | 1265 | 1900 | 1100 | 1265 | 1900 | 800 | 800 | 1900 |
| | | 5 | 2 | (18) 16d | (12) 10d x 1 1/2 | --- | --- | --- | 1305 | 1505 | 1900 | 1305 | 1505 | 1900 | 1285 | 1475 | 1900 | 800 | 800 | 1900 |
| SKH28L/R | -- -- | 6 15/16 | 1 | (10) 10d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1000 | 1155 | 1240 | 1000 | 1155 | 1240 | 905 | 1040 | 1240 |
| | | 6 15/16 | 1 | (10) 16d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1100 | 1265 | 1240 | 1065 | 1220 | 1240 | 905 | 1040 | 1240 |
| | | 6 15/16 | 2 | (10) 10d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1000 | 1155 | 1240 | 1000 | 1155 | 1240 | 1000 | 1155 | 1240 |
| | | 6 15/16 | 2 | (10) 16d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1190 | 1370 | 1240 | 1190 | 1370 | 1240 | 1190 | 1370 | 1240 |
| SKHH28L/R | -- -- | 6 3/4 | 1 | (26) 10d | (16) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1590 | 1825 | 2535 | 1100 | 1265 | 2535 | 925 | 1060 | 2535 |
| | | 6 3/4 | 1 | (26) 16d | (16) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1745 | 2005 | 2535 | 1100 | 1265 | 2535 | 925 | 1060 | 2535 |
| | | 6 3/4 | 2 | (26) 10d | (16) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1590 | 1825 | 2535 | 1590 | 1825 | 2535 | 1590 | 1825 | 2535 |
| | | 6 3/4 | 2 | (26) 16d | (16) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 1890 | 2170 | 2535 | 1890 | 2170 | 2535 | 1845 | 2125 | 2535 |
| SKH210L/R | SUR/L210 | 8 11/16 | 1 | (14) 10d | (10) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1400 | 1505 | 1550 | 1325 | 1505 | 1550 |
| | | 8 11/16 | 1 | (14) 16d | (10) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1535 | 1650 | 1550 | 1325 | 1525 | 1550 |
| | | 8 11/16 | 2 | (14) 10d | (10) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1400 | 1505 | 1550 | 1400 | 1505 | 1550 |
| | | 8 11/16 | 2 | (14) 16d | (10) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1665 | 1790 | 1550 | 1665 | 1790 | 1550 |
| SKHH210L/R | -- -- | 8 3/8 | 1 | (34) 10d | (20) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2080 | 2390 | 3170 | 1625 | 1870 | 3170 |
| | | 8 3/8 | 1 | (34) 16d | (20) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2280 | 2620 | 3170 | 1625 | 1870 | 3170 |
| | | 8 3/8 | 2 | (34) 10d | (20) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2080 | 2390 | 3170 | 2080 | 2390 | 3170 |
| | | 8 3/8 | 2 | (34) 16d | (20) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2470 | 2840 | 3170 | 2470 | 2840 | 3170 |
| SKH26L/R-2 | SUR/L26-2 | 3 5/8 | 1 | (6) 10d | (6) 10d | --- | --- | --- | 600 | 690 | 960 | 600 | 690 | 960 | 600 | 690 | 960 | 600 | 690 | 960 |
| | | 3 5/8 | 1 | (6) 16d | (6) 10d | --- | --- | --- | 660 | 755 | 960 | 660 | 755 | 960 | 660 | 755 | 960 | 660 | 755 | 960 |
| | | 3 5/8 | 2 | (6) 10d | (6) 10d | --- | --- | --- | 600 | 690 | 960 | 600 | 690 | 960 | 600 | 690 | 960 | 600 | 690 | 960 |
| | | 3 5/8 | 2 | (6) 16d | (6) 10d | --- | --- | --- | 715 | 820 | 960 | 715 | 800 | 960 | 715 | 800 | 960 | 715 | 800 | 960 |
| SKHH26L/R-2 | HSUR/L26-2 | 4 1/2 | 1 | (12) 10d | (4) 10d | --- | --- | --- | 1220 | 1405 | 775 | 800 | 860 | 775 | 800 | 800 | 775 | 800 | 800 | 775 |
| | | 4 1/2 | 1 | (12) 16d | (4) 16d x 2 1/2 | --- | --- | --- | 1340 | 1540 | 775 | 800 | 860 | 775 | 800 | 800 | 775 | 800 | 800 | 775 |
| | | 4 1/2 | 2 | (12) 10d | (4) 10d | --- | --- | --- | 1220 | 1405 | 775 | 1220 | 1405 | 775 | 1220 | 1405 | 775 | 800 | 800 | 775 |
| | | 4 1/2 | 2 | (12) 16d | (4) 16d x 2 1/2 | --- | --- | --- | 1450 | 1670 | 775 | 1450 | 1670 | 775 | 1320 | 1520 | 775 | 800 | 800 | 775 |
| SKH28L/R-2 | -- -- | 6 3/16 | 1 | (10) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | 1000 | 1155 | 1280 | 835 | 960 | 1280 | 800 | 900 | 1280 |
| | | 6 3/16 | 1 | (10) 16d | (8) 10d | --- | --- | --- | --- | --- | --- | 1100 | 1265 | 1280 | 835 | 960 | 1280 | 800 | 900 | 1280 |
| | | 6 3/16 | 2 | (10) 10d | (8) 10d | --- | --- | --- | --- | --- | --- | 1000 | 1155 | 1280 | 1000 | 1155 | 1280 | 1000 | 1155 | 1280 |
| | | 6 3/16 | 2 | (10) 16d | (8) 10d | --- | --- | --- | --- | --- | --- | 1190 | 1370 | 1280 | 1190 | 1370 | 1280 | 1190 | 1370 | 1280 |
| SKH210L/R-2 | SUR/L210-2 | 8 11/16 | 1 | (14) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1400 | 1615 | 1565 | 1330 | 1525 | 1565 |
| | | 8 11/16 | 1 | (14) 16d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1535 | 1770 | 1565 | 1330 | 1525 | 1565 |
| | | 8 11/16 | 2 | (14) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1400 | 1615 | 1565 | 1400 | 1615 | 1565 |
| | | 8 11/16 | 2 | (14) 16d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1665 | 1915 | 1565 | 1665 | 1915 | 1565 |
| SKHH210L/R-2 | HSUR/L210-2 | 7 5/16 | 1 | (20) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2040 | 2345 | 975 | 1365 | 1570 | 975 |
| | | 7 5/16 | 1 | (20) 16d | (6) 16d x 2 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2235 | 2570 | 1160 | 1365 | 1570 | 1160 |
| | | 7 5/16 | 2 | (20) 10d | (6) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2040 | 2345 | 975 | 2040 | 2345 | 975 |
| | | 7 5/16 | 2 | (20) 16d | (6) 16d x 2 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2420 | 2785 | 1160 | 2420 | 2785 | 1160 |
| SKH46L/R | SUR/L46 | 4 5/16 | 1 | (10) 10d | (6) 10d | --- | --- | --- | 910 | 1045 | 1160 | 800 | 800 | 1160 | 800 | 800 | 1160 | 800 | 800 | 1160 |
| | | 4 5/16 | 1 | (10) 10d | (6) 16d | --- | --- | --- | 910 | 1045 | 1160 | 800 | 800 | 1160 | 800 | 800 | 1160 | 800 | 800 | 1160 |
| | | 4 5/16 | 2 | (10) 10d | (6) 10d | --- | --- | --- | 1020 | 1170 | 1160 | 1020 | 1170 | 1160 | 800 | 800 | 1160 | 800 | 800 | 1160 |
| | | 4 5/16 | 2 | (10) 16d | (6) 16d | --- | --- | --- | 1210 | 1390 | 1160 | 1210 | 1390 | 1160 | 800 | 800 | 1160 | 800 | 800 | 1160 |
| SKHH46L/R | HSUR/L46 | 4 1/2 | 1 | (12) 10d | (6) 10d | --- | --- | --- | 1220 | 1405 | 975 | 800 | 860 | 975 | 800 | 800 | 975 | 800 | 800 | 975 |
| | | 4 1/2 | 1 | (12) 10d | (6) 10d | --- | --- | --- | 1340 | 1540 | 1160 | 800 | 860 | 1160 | 800 | 800 | 1160 | 800 | 800 | 1160 |
| | | 4 1/2 | 2 | (12) 10d | (6) 10d | --- | --- | --- | 1220 | 1405 | 975 | 1220 | 1405 | 975 | 1220 | 1405 | 975 | 800 | 800 | 975 |
| | | 4 1/2 | 2 | (12) 16d | (6) 16d | --- | --- | --- | 1450 | 1670 | 1160 | 1450 | 1670 | 1160 | 1320 | 1520 | 1160 | 800 | 800 | 1160 |
| SKH410L/R | SUR/L410 | 6 3/4 | 1 | (16) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1630 | 1875 | 1565 | 1365 | 1570 | 1565 |
| | | 6 3/4 | 1 | (16) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1785 | 2055 | 1565 | 1365 | 1570 | 1565 |
| | | 6 3/4 | 2 | (16) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1630 | 1875 | 1565 | 1630 | 1875 | 1565 |
| | | 6 3/4 | 2 | (16) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1935 | 2225 | 1565 | 1935 | 2225 | 1565 |
| SKHH410L/R | HSUR/L410 | 7 | 1 | (20) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2040 | 2345 | 1630 | 1365 | 1570 | 1630 |
| | | 7 | 1 | (20) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2235 | 2570 | 1935 | 1365 | 1570 | 1935 |
| | | 7 | 2 | (20) 10d | (10) 10d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2040 | 2345 | 1630 | 2040 | 2345 | 1630 |
| | | 7 | 2 | (20) 16d | (10) 16d | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2420 | 2785 | 1935 | 2420 | 2785 | 1935 |
| **Hip/Jack Connectors** | | | | | | | | | | | | | | | | | | | | |
| BN264 | -- -- | 2 7/8 | 1 | (20) 10d | (8) 10d x 1 1/2 | --- | --- | --- | 2060 | 2370 | 545 | 800 | 905 | 545 | 800 | 800 | 545 | 800 | 800 | 545 |
| | | 2 7/8 | 2 | (20) 10d | (8) 10d x 1 1/2 | --- | --- | --- | 2060 | 2370 | 545 | 1575 | 1815 | 545 | 1360 | 1565 | 545 | 800 | 800 | 545 |
| BN284 | -- -- | 2 7/8 | 1 | (20) 10d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 2060 | 2370 | 545 | 1155 | 1330 | 545 | 950 | 1090 | 545 |
| | | 2 7/8 | 2 | (20) 10d | (8) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | 2060 | 2370 | 545 | 2060 | 2370 | 545 | 1900 | 2185 | 545 |

**See footnotes on page 7.**

# USP STRUCTURAL CONNECTORS
## ENGINEERED PRODUCTS/ENGINEERING SERVICES

# ANSI/TPI 1-2014 MID CHORD ALLOWABLE LOADS (Spruce-Pine-Fir)

| USP Stock No. | Ref. No. | Min. Heel Height (in) | No. of Supporting Member Plies | Fasteners Supporting Member | Fasteners Supported Member | 2 x 4 Download 100% | 2 x 4 Download 115% | 2 x 4 Uplift 160% | 2 x 6 Download 100% | 2 x 6 Download 115% | 2 x 6 Uplift 160% | 2 x 8 Download 100% | 2 x 8 Download 115% | 2 x 8 Uplift 160% | 2 x 10 Download 100% | 2 x 10 Download 115% | 2 x 10 Uplift 160% | 2 x 12 Download 100% | 2 x 12 Download 115% | 2 x 12 Uplift 160% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hip/Jack Connectors** | | | | | | | | | | | | | | | | | | | | |
| HTHJ26-18 | LTHJR/L | $4^7/_8$ | 1 | (16) 10d | (12) 10d | --- | --- | --- | 1020 | 1175 | 1020 | 800 | 800 | 1020 | 800 | 800 | 1020 | 800 | 800 | 1020 |
| | | $4^7/_8$ | 1 | (16) 16d | (12) 16d | --- | --- | --- | 1020 | 1175 | 1115 | 800 | 800 | 1115 | 800 | 800 | 1115 | 800 | 800 | 1115 |
| | | $4^7/_8$ | 2 | (16) 10d | (12) 10d | --- | --- | --- | 1575 | 1815 | 1020 | 1290 | 1485 | 1020 | 800 | 800 | 1020 | 800 | 800 | 1020 |
| | | $4^7/_8$ | 2 | (16) 16d | (12) 16d | --- | --- | --- | 1870 | 2155 | 1210 | 1290 | 1485 | 1210 | 800 | 800 | 1210 | 800 | 800 | 1210 |
| HJC26 | -- -- | $5^3/_{16}$ | 1 | (16) 10d | (12) 10d | --- | --- | --- | 1740 | 2000 | 1320 | 835 | 960 | 1320 | 800 | 805 | 1320 | 800 | 800 | 1320 |
| | | $5^3/_{16}$ | 1 | (16) 16d | (12) 10d | --- | --- | --- | 1905 | 2190 | 1320 | 835 | 960 | 1320 | 800 | 805 | 1320 | 800 | 800 | 1320 |
| | | $5^3/_{16}$ | 2 | (16) 10d | (12) 10d | --- | --- | --- | 1740 | 2000 | 1320 | 1670 | 1920 | 1320 | 1400 | 1610 | 1320 | 800 | 800 | 1320 |
| | | $5^3/_{16}$ | 2 | (16) 16d | (12) 10d | --- | --- | --- | 2065 | 2375 | 1320 | 1670 | 1920 | 1320 | 1400 | 1610 | 1320 | 800 | 800 | 1320 |
| HHC26 | -- -- | $4^{15}/_{16}$ | 1 | (20) 10d | (10) 10d | --- | --- | --- | 2175 | 2480 | 1545 | 810 | 935 | 1545 | 800 | 800 | 1545 | 800 | 800 | 1545 |
| | | $4^{15}/_{16}$ | 1 | (20) 16d | (10) 10d | --- | --- | --- | 2380 | 2720 | 1545 | 810 | 935 | 1545 | 800 | 800 | 1545 | 800 | 800 | 1545 |
| | | $4^{15}/_{16}$ | 2 | (20) 10d | (10) 10d | --- | --- | --- | 2175 | 2480 | 1545 | 1620 | 1865 | 1545 | 1380 | 1585 | 1545 | 800 | 800 | 1545 |
| | | $4^{15}/_{16}$ | 2 | (20) 16d | (10) 10d | --- | --- | --- | 2580 | 2945 | 1545 | 1620 | 1865 | 1545 | 1380 | 1585 | 1545 | 800 | 800 | 1545 |
| HJHC26 | -- -- | $5^7/_{16}$ | 1 | (20) 10d | (12) 10d | --- | --- | --- | 2175 | 2480 | 1545 | 810 | 935 | 1545 | 800 | 800 | 1545 | 800 | 800 | 1545 |
| | | $5^7/_{16}$ | 1 | (20) 16d | (12) 10d | --- | --- | --- | 2380 | 2720 | 1545 | 810 | 935 | 1545 | 800 | 800 | 1545 | 800 | 800 | 1545 |
| | | $5^7/_{16}$ | 2 | (20) 10d | (12) 10d | --- | --- | --- | 2175 | 2480 | 1545 | 1620 | 1865 | 1545 | 1380 | 1585 | 1545 | 800 | 800 | 1545 |
| | | $5^7/_{16}$ | 2 | (20) 16d | (12) 10d | --- | --- | --- | 2580 | 2945 | 1545 | 1620 | 1865 | 1545 | 1380 | 1585 | 1545 | 800 | 800 | 1545 |
| HJC28 | -- -- | $6^1/_4$ | 1 | (20) 10d | (14) 10d | --- | --- | --- | --- | --- | --- | 2175 | 2480 | 1540 | 1215 | 1400 | 1540 | 975 | 1125 | 1540 |
| | | $6^1/_4$ | 1 | (20) 16d | (14) 10d | --- | --- | --- | --- | --- | --- | 2380 | 2720 | 1540 | 1215 | 1400 | 1540 | 975 | 1125 | 1540 |
| | | $6^1/_4$ | 2 | (20) 10d | (14) 10d | --- | --- | --- | --- | --- | --- | 2175 | 2480 | 1540 | 2175 | 2480 | 1540 | 1955 | 2245 | 1540 |
| | | $6^1/_4$ | 2 | (20) 16d | (14) 10d | --- | --- | --- | --- | --- | --- | 2580 | 2945 | 1540 | 2430 | 2795 | 1540 | 1955 | 2245 | 1540 |
| HHC28 | -- -- | 6 | 1 | (24) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | 2480 | 2480 | 1545 | 1170 | 1345 | 1545 | 955 | 1100 | 1545 |
| | | 6 | 1 | (24) 16d | (12) 10d | --- | --- | --- | --- | --- | --- | 2720 | 2720 | 1545 | 1170 | 1345 | 1545 | 955 | 1100 | 1545 |
| | | 6 | 2 | (24) 10d | (12) 10d | --- | --- | --- | --- | --- | --- | 2480 | 2480 | 1545 | 2340 | 2480 | 1545 | 1910 | 2200 | 1545 |
| | | 6 | 2 | (24) 16d | (12) 10d | --- | --- | --- | --- | --- | --- | 2945 | 2945 | 1545 | 2340 | 2690 | 1545 | 1910 | 2200 | 1545 |
| HJHC28 | MTHM | $6^1/_2$ | 1 | (24) 10d | (14) 10d | --- | --- | --- | --- | --- | --- | 2480 | 2480 | 1545 | 1185 | 1365 | 1545 | 965 | 1105 | 1545 |
| | | $6^1/_2$ | 1 | (24) 16d | (14) 10d | --- | --- | --- | --- | --- | --- | 2720 | 2720 | 1545 | 1185 | 1365 | 1545 | 965 | 1105 | 1545 |
| | | $6^1/_2$ | 2 | (24) 10d | (14) 10d | --- | --- | --- | --- | --- | --- | 2480 | 2480 | 1545 | 2370 | 2480 | 1545 | 1925 | 2215 | 1545 |
| | | $6^1/_2$ | 2 | (24) 16d | (14) 10d | --- | --- | --- | --- | --- | --- | 2945 | 2945 | 1545 | 2370 | 2725 | 1545 | 1925 | 2215 | 1545 |
| **Adjustable Slope/Skew Connectors** | | | | | | | | | | | | | | | | | | | | |
| LSSH210 Sloped only | LSSU210 | 8 | 1 | (10) 10d | (7) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 925 | 1065 | 895 | 835 | 960 | 895 |
| | | 8 | 2 | (10) 10d | (7) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 980 | 1125 | 895 | 980 | 1125 | 895 |
| LSSH210 Sloped & Skewed | LSSU210 | 8 | 1 | (10) 10d | (7) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 925 | 1065 | 895 | 835 | 960 | 895 |
| | | 8 | 2 | (10) 10d | (7) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 980 | 1125 | 895 | 980 | 1125 | 895 |
| LSSH179 Sloped only | LSSUI25 | 8 | 1 | (10) 10d | (7) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 925 | 1065 | 895 | 835 | 960 | 895 |
| | | 8 | 2 | (10) 10d | (7) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 980 | 1125 | 895 | 980 | 1125 | 895 |
| LSSH179 Sloped & Skewed | LSSUI25 | 8 | 1 | (10) 10d | (7) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 925 | 1065 | 895 | 835 | 960 | 895 |
| | | 8 | 2 | (10) 10d | (7) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 980 | 1125 | 895 | 980 | 1125 | 895 |
| LSSH31 Sloped only | LSSU210-2 | $7^3/_{16}$ | 1 | (14) 10d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 970 | 1115 | 1330 | 860 | 990 | 1330 |
| | | $7^3/_{16}$ | 1 | (14) 16d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 970 | 1115 | 1330 | 860 | 990 | 1330 |
| | | $7^3/_{16}$ | 2 | (14) 10d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1800 | 2075 | 1330 | 1720 | 1975 | 1330 |
| | | $7^3/_{16}$ | 2 | (14) 16d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1945 | 2235 | 1330 | 1720 | 1975 | 1330 |
| LSSH31 Sloped & Skewed | LSSU210-2 | $7^3/_{16}$ | 1 | (14) 10d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 970 | 1115 | 1330 | 860 | 990 | 1330 |
| | | $7^3/_{16}$ | 1 | (14) 16d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 970 | 1115 | 1330 | 860 | 990 | 1330 |
| | | $7^3/_{16}$ | 2 | (14) 10d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1360 | 1360 | 1330 | 1360 | 1360 | 1330 |
| | | $7^3/_{16}$ | 2 | (14) 16d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1615 | 1615 | 1330 | 1615 | 1615 | 1330 |
| LSSH35 Sloped Only | LSSU410 | $7^3/_{16}$ | 1 | (14) 10d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 970 | 1115 | 1330 | 860 | 990 | 1330 |
| | | $7^3/_{16}$ | 1 | (14) 16d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 970 | 1115 | 1330 | 860 | 990 | 1330 |
| | | $7^3/_{16}$ | 2 | (14) 10d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1800 | 2075 | 1330 | 1720 | 1975 | 1330 |
| | | $7^3/_{16}$ | 2 | (14) 16d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1945 | 2235 | 1330 | 1720 | 1975 | 1330 |
| LSSH35 Sloped & Skewed | LSSU410 | $7^3/_{16}$ | 1 | (14) 10d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 970 | 1115 | 1330 | 860 | 990 | 1330 |
| | | $7^3/_{16}$ | 1 | (14) 16d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 970 | 1115 | 1330 | 860 | 990 | 1330 |
| | | $7^3/_{16}$ | 2 | (14) 10d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1360 | 1360 | 1330 | 1360 | 1360 | 1330 |
| | | $7^3/_{16}$ | 2 | (14) 16d | (12) 10d x 1 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1615 | 1615 | 1330 | 1615 | 1615 | 1330 |

1) Tabulated loads are in pounds.

2) Minimum heel height is measured from the top of the bearing seat to the uppermost nail into the supporting member + 3/8".

3) ANSI/TPI 1-2014 contains plating methods for satisfying this requirement. To avoid reduction of capacity, please consult with truss fabricator or contact MiTek USA.

4) **NAILS:** 10d x 1-1/2" nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long.

Revised 03/14/16