

# SPF (G=0.42) Allowable Design Loads for Truss Connections

Including Low Heel Height, Short Headers, and ANSI/TPI Reductions



| MiTek Stock No.              | No of Plies | 2x6 Girder Bottom Chord |      |       |             |                        |      |        |        | 2x8 Girder Bottom Chord |       |     |             |                        |        |        |      | 2x10 Girder Bottom Chord |      |          |             |                        |      |      |      |
|------------------------------|-------------|-------------------------|------|-------|-------------|------------------------|------|--------|--------|-------------------------|-------|-----|-------------|------------------------|--------|--------|------|--------------------------|------|----------|-------------|------------------------|------|------|------|
|                              |             | Fastener Schedule       |      |       |             | Allowable Loads (Lbs.) |      |        |        | Fastener Schedule       |       |     |             | Allowable Loads (Lbs.) |        |        |      | Fastener Schedule        |      |          |             | Allowable Loads (Lbs.) |      |      |      |
|                              |             | Header                  |      | Joist |             | Download               |      | Uplift | Header |                         | Joist |     | Download    |                        | Uplift | Header |      | Joist                    |      | Download |             | Uplift                 |      |      |      |
|                              |             | Qty                     | Type | Qty   | Type        | 100%                   | 115% | 125%   | 160%   | Qty                     | Type  | Qty | Type        | 100%                   | 115%   | 125%   | 160% | Qty                      | Type | Qty      | Type        | 100%                   | 115% | 125% | 160% |
| <b>3.5" Min. Heel Height</b> |             |                         |      |       |             |                        |      |        |        |                         |       |     |             |                        |        |        |      |                          |      |          |             |                        |      |      |      |
| JL24                         | 1           | 4                       | 10d  | 2     | 10d x 1-1/2 | 390                    | 450  | 490    | 270    | 4                       | 10d   | 2   | 10d x 1-1/2 | 390                    | 450    | 490    | 270  | 4                        | 10d  | 2        | 10d x 1-1/2 | 390                    | 450  | 490  | 270  |
| JUS24                        | 1           | 4                       | 10d  | 2     | 10d         | 565                    | 595  | 595    | 585    | 4                       | 10d   | 2   | 10d         | 565                    | 595    | 595    | 585  | 4                        | 10d  | 2        | 10d         | 565                    | 595  | 595  | 585  |
| HD26                         | 1           | 4                       | 16d  | 2     | 10d x 1-1/2 | 460                    | 525  | 570    | 190    | 4                       | 16d   | 2   | 10d x 1-1/2 | 460                    | 525    | 570    | 190  | 4                        | 16d  | 2        | 10d x 1-1/2 | 460                    | 525  | 570  | 190  |
| JUS26                        | 1           | 4                       | 10d  | 2     | 10d         | 565                    | 650  | 710    | 535    | 4                       | 10d   | 2   | 10d         | 565                    | 650    | 710    | 535  | 4                        | 10d  | 2        | 10d         | 565                    | 650  | 710  | 535  |
| JL26                         | 1           | 8                       | 10d  | 2     | 10d x 1-1/2 | 785                    | 865  | 865    | 275    | 8                       | 10d   | 2   | 10d x 1-1/2 | 785                    | 865    | 865    | 275  | 8                        | 10d  | 2        | 10d x 1-1/2 | 785                    | 865  | 865  | 275  |
| MUS26                        | 1           | 6                       | 10d  | 4     | 10d         | 930                    | 1015 | 1015   | 340    | 6                       | 10d   | 4   | 10d         | 930                    | 1015   | 1015   | 340  | 6                        | 10d  | 4        | 10d         | 930                    | 970  | 970  | 340  |
| THD26                        | 1           | 18                      | 16d  | 8     | 10d x 1-1/2 | 2060                   | 2370 | 2575   | 880    | 18                      | 16d   | 8   | 10d x 1-1/2 | 1280                   | 1280   | 1280   | 880  | 18                       | 16d  | 8        | 10d x 1-1/2 | 1075                   | 1075 | 1075 | 880  |
| HUS26                        | 1           | 14                      | 16d  | 4     | 16d         | 1670                   | 1670 | 1670   | 410    | 14                      | 16d   | 4   | 16d         | 1280                   | 1280   | 1280   | 410  | 14                       | 16d  | 4        | 16d         | 1075                   | 1075 | 1075 | 410  |
| JUS28                        | 1           | 4                       | 10d  | 2     | 10d         | 565                    | 650  | 710    | 535    | 6                       | 10d   | 2   | 10d         | 765                    | 880    | 960    | 535  | 6                        | 10d  | 2        | 10d         | 765                    | 880  | 960  | 535  |
| JL28                         | 1           | 8                       | 10d  | 2     | 10d x 1-1/2 | 785                    | 865  | 865    | 275    | 10                      | 10d   | 2   | 10d x 1-1/2 | 865                    | 865    | 865    | 275  | 10                       | 10d  | 2        | 10d x 1-1/2 | 865                    | 865  | 865  | 275  |
| HD28                         | 1           | 8                       | 16d  | 2     | 10d x 1-1/2 | 915                    | 1055 | 1100   | 215    | 8                       | 16d   | 2   | 10d x 1-1/2 | 915                    | 1055   | 1100   | 215  | 8                        | 16d  | 2        | 10d x 1-1/2 | 915                    | 995  | 995  | 215  |
| MUS28                        | 1           | 6                       | 10d  | 4     | 10d         | 930                    | 1015 | 1015   | 340    | 8                       | 10d   | 4   | 10d         | 1130                   | 1300   | 1415   | 340  | 8                        | 10d  | 4        | 10d         | 1130                   | 1300 | 1415 | 340  |
| THD28                        | 1           | 18                      | 16d  | 8     | 10d x 1-1/2 | 2060                   | 2370 | 2575   | 880    | 28                      | 16d   | 8   | 10d x 1-1/2 | 3070                   | 3070   | 3070   | 880  | 28                       | 16d  | 8        | 10d x 1-1/2 | 1865                   | 1865 | 1865 | 880  |
| HUS28                        | 1           | 14                      | 16d  | 4     | 16d         | 1670                   | 1670 | 1670   | 410    | 22                      | 16d   | 4   | 16d         | 1670                   | 1670   | 1670   | 410  | 22                       | 16d  | 4        | 16d         | 1670                   | 1670 | 1670 | 410  |
| JUS210                       | 1           | 4                       | 10d  | 2     | 10d         | 565                    | 650  | 710    | 535    | 6                       | 10d   | 2   | 10d         | 765                    | 880    | 960    | 535  | 8                        | 10d  | 2        | 10d         | 965                    | 1110 | 1210 | 535  |
| HD210                        | 1           | 8                       | 16d  | 2     | 10d x 1-1/2 | 915                    | 1055 | 1100   | 215    | 10                      | 16d   | 2   | 10d x 1-1/2 | 1100                   | 1100   | 1100   | 215  | 10                       | 16d  | 2        | 10d x 1-1/2 | 1100                   | 1100 | 1100 | 215  |
| HUS210                       | 1           | 14                      | 16d  | 4     | 16d         | 1670                   | 1670 | 1670   | 410    | 22                      | 16d   | 4   | 16d         | 1670                   | 1670   | 1670   | 410  | 30                       | 16d  | 4        | 16d         | 1670                   | 1670 | 1670 | 410  |
| JUS24-2                      | 2           | 4                       | 16d  | 2     | 16d         | 635                    | 675  | 675    | 590    | 4                       | 16d   | 2   | 16d         | 635                    | 660    | 660    | 590  | 4                        | 16d  | 2        | 16d         | 635                    | 660  | 660  | 590  |
| JUS26-2                      | 2           | 4                       | 16d  | 2     | 16d         | 635                    | 735  | 795    | 615    | 4                       | 16d   | 2   | 16d         | 635                    | 735    | 795    | 615  | 4                        | 16d  | 2        | 16d         | 635                    | 735  | 795  | 615  |
| THD26-2                      | 2           | 18                      | 16d  | 8     | 10d         | 2060                   | 2370 | 2575   | 880    | 18                      | 16d   | 8   | 10d         | 1280                   | 1280   | 1280   | 880  | 18                       | 16d  | 8        | 10d         | 1075                   | 1075 | 1075 | 880  |
| THDH26-2                     | 2           | 22                      | 16d  | 4     | 16d         | 3115                   | 3585 | 3895   | 655    | 22                      | 16d   | 4   | 16d         | 1405                   | 1405   | 1405   | 655  | 22                       | 16d  | 4        | 16d         | 1125                   | 1125 | 1125 | 655  |
| THD28-2                      | 2           | 18                      | 16d  | 8     | 10d         | 2060                   | 2370 | 2575   | 880    | 28                      | 16d   | 8   | 10d         | 3070                   | 3070   | 3070   | 880  | 28                       | 16d  | 8        | 10d         | 1865                   | 1865 | 1865 | 880  |
| THDH28-2                     | 2           | 22                      | 16d  | 4     | 16d         | 3115                   | 3585 | 3895   | 655    | 36                      | 16d   | 4   | 16d         | 4850                   | 5575   | 5865   | 655  | 36                       | 16d  | 4        | 16d         | 1915                   | 1915 | 1915 | 655  |
| <b>5.5" Min. Heel Height</b> |             |                         |      |       |             |                        |      |        |        |                         |       |     |             |                        |        |        |      |                          |      |          |             |                        |      |      |      |
| JL24                         | 1           | 4                       | 10d  | 2     | 10d x 1-1/2 | 390                    | 450  | 490    | 270    | 4                       | 10d   | 2   | 10d x 1-1/2 | 390                    | 450    | 490    | 270  | 4                        | 10d  | 2        | 10d x 1-1/2 | 390                    | 450  | 490  | 270  |
| JUS24                        | 1           | 4                       | 10d  | 2     | 10d         | 565                    | 595  | 595    | 585    | 4                       | 10d   | 2   | 10d         | 565                    | 595    | 595    | 585  | 4                        | 10d  | 2        | 10d         | 565                    | 595  | 595  | 585  |
| HD26                         | 1           | 4                       | 16d  | 2     | 10d x 1-1/2 | 460                    | 525  | 570    | 190    | 4                       | 16d   | 2   | 10d x 1-1/2 | 460                    | 525    | 570    | 190  | 4                        | 16d  | 2        | 10d x 1-1/2 | 460                    | 525  | 570  | 190  |
| JUS26                        | 1           | 4                       | 10d  | 2     | 10d         | 730                    | 840  | 915    | 535    | 4                       | 10d   | 2   | 10d         | 730                    | 840    | 915    | 535  | 4                        | 10d  | 2        | 10d         | 730                    | 800  | 800  | 535  |
| JL26                         | 1           | 8                       | 10d  | 4     | 10d x 1-1/2 | 785                    | 865  | 865    | 275    | 8                       | 10d   | 4   | 10d x 1-1/2 | 785                    | 865    | 865    | 275  | 8                        | 10d  | 4        | 10d x 1-1/2 | 785                    | 865  | 865  | 275  |
| MUS26                        | 1           | 6                       | 10d  | 6     | 10d         | 1015                   | 1015 | 1015   | 340    | 6                       | 10d   | 6   | 10d         | 1015                   | 1015   | 1015   | 340  | 6                        | 10d  | 6        | 10d         | 970                    | 970  | 970  | 340  |
| THD26                        | 1           | 18                      | 16d  | 12    | 10d x 1-1/2 | 2060                   | 2370 | 2575   | 880    | 18                      | 16d   | 12  | 10d x 1-1/2 | 1280                   | 1280   | 1280   | 880  | 18                       | 16d  | 12       | 10d x 1-1/2 | 1075                   | 1075 | 1075 | 880  |
| HUS26                        | 1           | 14                      | 16d  | 6     | 16d         | 1670                   | 1670 | 1670   | 410    | 14                      | 16d   | 6   | 16d         | 1280                   | 1280   | 1280   | 410  | 14                       | 16d  | 6        | 16d         | 1075                   | 1075 | 1075 | 410  |
| JUS28                        | 1           | 4                       | 10d  | 2     | 10d         | 730                    | 840  | 915    | 535    | 6                       | 10d   | 2   | 10d         | 930                    | 1070   | 1165   | 535  | 6                        | 10d  | 2        | 10d         | 930                    | 1070 | 1165 | 535  |
| JL28                         | 1           | 8                       | 10d  | 4     | 10d x 1-1/2 | 785                    | 865  | 865    | 275    | 10                      | 10d   | 4   | 10d x 1-1/2 | 865                    | 865    | 865    | 275  | 10                       | 10d  | 4        | 10d x 1-1/2 | 865                    | 865  | 865  | 275  |
| HD28                         | 1           | 8                       | 16d  | 4     | 10d x 1-1/2 | 915                    | 1055 | 1100   | 215    | 8                       | 16d   | 4   | 10d x 1-1/2 | 915                    | 1055   | 1100   | 215  | 8                        | 16d  | 4        | 10d x 1-1/2 | 915                    | 995  | 995  | 215  |
| MUS28                        | 1           | 6                       | 10d  | 6     | 10d         | 1015                   | 1015 | 1015   | 340    | 8                       | 10d   | 6   | 10d         | 1300                   | 1495   | 1590   | 660  | 8                        | 10d  | 6        | 10d         | 1300                   | 1495 | 1500 | 660  |
| THD28                        | 1           | 18                      | 16d  | 12    | 10d x 1-1/2 | 2060                   | 2370 | 2575   | 880    | 28                      | 16d   | 12  | 10d x 1-1/2 | 3070                   | 3070   | 3070   | 1725 | 28                       | 16d  | 12       | 10d x 1-1/2 | 1865                   | 1865 | 1865 | 1725 |
| HUS28                        | 1           | 14                      | 16d  | 6     | 16d         | 1670                   | 1670 | 1670   | 410    | 22                      | 16d   | 6   | 16d         | 2465                   | 2465   | 2465   | 740  | 22                       | 16d  | 6        | 16d         | 1865                   | 1865 | 1865 | 740  |
| JUS210                       | 1           | 4                       | 10d  | 2     | 10d         | 730                    | 840  | 915    | 535    | 6                       | 10d   | 2   | 10d         | 930                    | 1070   | 1165   | 535  | 8                        | 10d  | 2        | 10d         | 1130                   | 1300 | 1370 | 535  |
| HD210                        | 1           | 8                       | 16d  | 4     | 10d x 1-1/2 | 915                    | 1055 | 1100   | 215    | 10                      | 16d   | 4   | 10d x 1-1/2 | 1100                   | 1100   | 1100   | 215  | 10                       | 16d  | 4        | 10d x 1-1/2 | 1100                   | 1100 | 1100 | 215  |
| HUS210                       | 1           | 14                      | 16d  | 6     | 16d         | 1670                   | 1670 | 1670   | 410    | 22                      | 16d   | 6   | 16d         | 2465                   | 2465   | 2465   | 740  | 30                       | 16d  | 6        | 16d         | 2465                   | 2465 | 2465 | 740  |
| JUS24-2                      | 2           | 4                       | 16d  | 2     | 16d         | 635                    | 675  | 675    | 590    | 4                       | 16d   | 2   | 16d         | 635                    | 660    | 660    | 590  | 4                        | 16d  | 2        | 16d         | 635                    | 660  | 660  | 590  |
| JUS26-2                      | 2           | 4                       | 16d  | 2     | 16d         | 835                    | 960  | 1045   | 615    | 4                       | 16d   | 2   | 16d         | 835                    | 960    | 1045   | 615  | 4                        | 16d  | 2        | 16d         | 835                    | 960  | 1045 | 615  |
| THD26-2                      | 2           | 18                      | 16d  | 12    | 10d         | 2060                   | 2370 | 2575   | 880    | 18                      | 16d   | 12  | 10d         | 1280                   | 1280   | 1280   | 880  | 18                       | 16d  | 12       | 10d         | 1075                   | 1075 | 1075 | 880  |
| THDH26-2                     | 2           | 22                      | 16d  | 8     | 16d         | 3515                   | 4040 | 4250   | 655    | 22                      | 16d   | 8   | 16d         | 1405                   | 1405   | 1405   | 655  | 22                       | 16d  | 8        | 16d         | 1125                   | 1125 | 1125 | 655  |
| THD28-2                      | 2           | 18                      | 16d  | 12    | 10d         | 2060                   | 2370 | 2575   | 880    | 28                      | 16d   | 12  | 10d         | 3070                   | 3070   | 3070   | 1725 | 28                       | 16d  | 12       | 10d         | 1865                   | 1865 | 1865 | 1725 |
| THDH28-2                     | 2           | 22                      | 16d  | 8     | 16d         | 3515                   | 4040 | 4250   | 1720   | 36                      | 16d   | 8   | 16d         | 5245                   | 5865   | 5865   | 1720 | 36                       | 16d  | 8        | 16d         | 1915                   | 1915 | 1915 | 1720 |