



# BPH / TFL / THO Top Mount Hangers

**BPH** – These hangers are used to support LVL, LSL, and PSL beams in light-to-medium load conditions.

**TFL** – Features 1-1/2" top flange depth that accommodates all header types as well as back-to-back installations.

**THO** – Engineered for I-Joist to header applications. Offers full lateral support of the I-Joist top chord, eliminating the need for web stiffeners in most applications.

**Materials:** See chart.

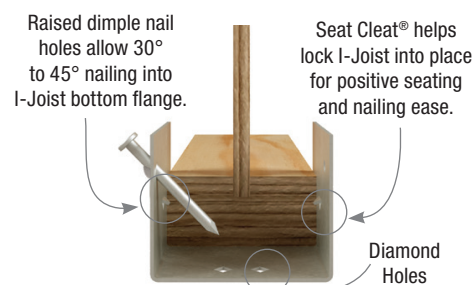
**Finish:** G90 galvanizing

**Options:** See current catalogue for options.

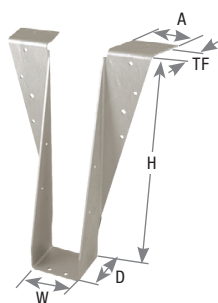
**Codes:** Factored resistances are derived from data submitted to various North American building code evaluators.

## Installation:

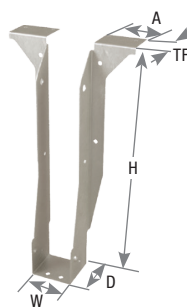
- Use all specified fasteners.
- Refer to the chart for applications requiring web stiffeners.
- Requirements for web stiffener from the I-Joist manufacturer should be followed, even if web stiffeners are not required in USP literature.
- Refer to current catalogue for more installation guidelines.



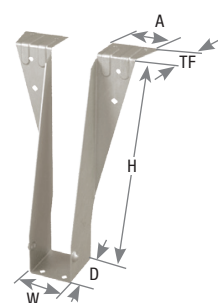
**TFL & THO Single Joist**



**BPH**



**TFL**



**THO**



**Typical BPH installation**



**Typical TFL installation**



**Typical THO installation**

Continued on back

Use in conjunction with USP's current Canadian Product Catalogue for detailed hanger information.

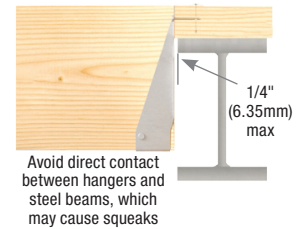
# BPH / TFL / THO Top Mount Hangers



**Nailer Options** - Chart represents maximum factored resistance for hangers used on wood nailers.

| USP Series         | Nailer Size <sup>3</sup> | Fastener Schedule |             |       |             | Factored Resistance <sup>2</sup> |                          |               |                          |               |                          |               |                          |
|--------------------|--------------------------|-------------------|-------------|-------|-------------|----------------------------------|--------------------------|---------------|--------------------------|---------------|--------------------------|---------------|--------------------------|
|                    |                          | Header            |             | Joist |             | DF (Lbs)                         |                          | DF (kN)       |                          | S-P-F (Lbs)   |                          | S-P-F (kN)    |                          |
|                    |                          | Qty               | Type        | Qty   | Type        | Vertical 100%                    | Uplift <sup>1</sup> 115% | Vertical 100% | Uplift <sup>1</sup> 115% | Vertical 100% | Uplift <sup>1</sup> 115% | Vertical 100% | Uplift <sup>1</sup> 115% |
| TFL                | 2X                       | 6                 | 10d x 1-1/2 | 2     | 10d x 1-1/2 | 1830                             | 265                      | 8.14          | 1.18                     | 1575          | 230                      | 7.01          | 1.02                     |
|                    | 3X                       | 6                 | 16d x 2-1/2 | 2     | 10d x 1-1/2 | 2305                             | 265                      | 10.25         | 1.18                     | 1980          | 230                      | 8.81          | 1.02                     |
|                    | (2) 2X                   | 6                 | 10d         | 2     | 10d x 1-1/2 | 1845                             | 265                      | 8.21          | 1.18                     | 1585          | 230                      | 7.05          | 1.02                     |
|                    | 4X                       | 6                 | 16d         | 2     | 10d x 1-1/2 | 2535                             | 265                      | 11.28         | 1.18                     | 2180          | 230                      | 9.70          | 1.02                     |
| THO (single joist) | 2X                       | 6                 | 10d x 1-1/2 | 2     | 10d x 1-1/2 | 1960                             | 375                      | 8.72          | 1.67                     | 1685          | 325                      | 7.50          | 1.45                     |
|                    | 3X                       | 6                 | 16d x 2-1/2 | 2     | 10d x 1-1/2 | 2115                             | 375                      | 9.41          | 1.67                     | 1820          | 325                      | 8.10          | 1.45                     |
|                    | (2) 2X                   | 6                 | 10d         | 2     | 10d x 1-1/2 | 1965                             | 375                      | 8.74          | 1.67                     | 1690          | 325                      | 7.52          | 1.45                     |
|                    | 4X                       | 6                 | 16d         | 2     | 10d x 1-1/2 | 2210                             | 375                      | 9.83          | 1.67                     | 1900          | 325                      | 8.45          | 1.45                     |
| THO (double joist) | 2X                       | 6                 | 10d x 1-1/2 | 6     | 10d         | 2095                             | 375                      | 9.32          | 1.67                     | 1800          | 325                      | 8.01          | 1.45                     |
|                    | 3X                       | 6                 | 16d x 2-1/2 | 6     | 10d         | 3360                             | 520                      | 14.95         | 2.31                     | 2890          | 445                      | 12.86         | 1.98                     |
|                    | (2) 2X                   | 10                | 10d         | 6     | 10d         | 3415                             | 520                      | 15.19         | 2.31                     | 2935          | 445                      | 13.06         | 1.98                     |
|                    | 4X                       | 10                | 16d         | 6     | 10d         | 3840                             | 520                      | 17.08         | 2.31                     | 3300          | 445                      | 14.68         | 1.98                     |
| BPH                | 2X                       | 6                 | 10d x 1-1/2 | 4     | 10d x 1-1/2 | 2995                             | 240                      | 13.32         | 1.07                     | 2575          | 205                      | 11.45         | 0.91                     |
|                    | 3X                       | 8                 | 16d x 2-1/2 | 4     | 10d x 1-1/2 | 3400                             | 555                      | 15.12         | 2.47                     | 2925          | 475                      | 13.01         | 2.11                     |
|                    | (2) 2X                   | 8                 | 10d         | 4     | 10d x 1-1/2 | 3325                             | 555                      | 14.79         | 2.47                     | 2860          | 475                      | 12.72         | 2.11                     |
|                    | 4X                       | 8                 | 16d         | 4     | 10d x 1-1/2 | 3235                             | 555                      | 14.39         | 2.47                     | 2780          | 475                      | 12.37         | 2.11                     |

- 1) Factored resistances have been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
- 2) Listed loads shall not be increased.
- 3) The nailer must be sized to fit the supported width and be of sufficient thickness to satisfy specified top flange nailing requirements. A design professional must specify nailer attachment to steel beams.
- 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.



**Typical Nailer installation**

| Joist Size              | USP Stock No. | Web Stiff Req'd | Ga. | Dimensions (in) |        |       |        |         | Fastener Schedule <sup>2,3</sup> |      |       |             | Unit | Factored Resistance |       |       |       |                      |                            |       |
|-------------------------|---------------|-----------------|-----|-----------------|--------|-------|--------|---------|----------------------------------|------|-------|-------------|------|---------------------|-------|-------|-------|----------------------|----------------------------|-------|
|                         |               |                 |     | W               | H      | D     | TF     | A       | Header                           |      | Joist |             |      | Download (100%)     |       |       |       |                      | Uplift (115%) <sup>1</sup> |       |
|                         |               |                 |     |                 |        |       |        |         | Qty                              | Type | Qty   | Type        |      | Header Material     |       |       |       |                      |                            |       |
|                         |               |                 |     |                 |        |       |        |         |                                  |      |       |             |      | LVL                 | PSL   | LSL   | SPF   | I-Joist <sup>2</sup> |                            | DF    |
| 1-1/2 x 9-1/2           | THO15950      | --              | 18  | 1-1/2           | 9-1/2  | 2     | 1-1/2  | 1-7/8   | 6                                | 10d  | 2     | 10d x 1-1/2 | Lbs  | 1935                | 1860  | 1920  | 1360  | 1815                 | 1730                       | 490   |
|                         |               |                 |     |                 |        |       |        |         |                                  |      |       |             | kN   | 8.61                | 8.27  | 8.54  | 6.05  | 8.07                 | 7.70                       | 2.18  |
| 1-1/2 x 11-7/8          | THO15118      | --              | 18  | 1-1/2           | 11-7/8 | 2     | 1-9/16 | 2       | 6                                | 10d  | 2     | 10d x 1-1/2 | Lbs  | 1935                | 1860  | 1920  | 1505  | 1880                 | 1915                       | 490   |
|                         |               |                 |     |                 |        |       |        |         |                                  |      |       |             | kN   | 8.61                | 8.27  | 8.54  | 6.69  | 8.36                 | 8.52                       | 2.18  |
| 1-3/4 x 9-1/2           | THO17950      | --              | 18  | 1-3/4           | 9-1/2  | 2     | 1-1/2  | 2       | 6                                | 10d  | 2     | 10d x 1-1/2 | Lbs  | 1935                | 1860  | 1920  | 1585  | 1570                 | 2020                       | 490   |
|                         |               |                 |     |                 |        |       |        |         |                                  |      |       |             | kN   | 8.61                | 8.27  | 8.54  | 7.05  | 6.98                 | 8.99                       | 2.18  |
| 1-3/4 x 11-7/8          | THO17118      | --              | 18  | 1-3/4           | 11-7/8 | 2     | 1-9/16 | 2       | 6                                | 10d  | 2     | 10d x 1-1/2 | Lbs  | 1935                | 1860  | 1920  | 1665  | 1735                 | 2125                       | 490   |
|                         |               |                 |     |                 |        |       |        |         |                                  |      |       |             | kN   | 8.61                | 8.27  | 8.54  | 7.41  | 7.72                 | 9.45                       | 2.18  |
| 1-3/4 x 14              | TFL1714       | --              | 18  | 1-3/4           | 14     | 2     | 1-1/2  | 2       | 6                                | 10d  | 2     | 10d x 1-1/2 | Lbs  | 2370                | 2305  | 2450  | 1960  | 1795                 | 2495                       | 265   |
| 1-3/4 x 16              | TFL1716       | --              | 18  | 1-3/4           | 16     | 2     | 1-1/2  | 2       | 6                                | 10d  | 2     | 10d x 1-1/2 | kN   | 10.54               | 10.25 | 10.90 | 8.72  | 7.98                 | 11.10                      | 1.18  |
| 2-1/4 - 2-5/16 x 9-1/2  | TFL2395       | --              | 18  | 2-5/16          | 9-1/2  | 2     | 1-1/2  | 2       | 6                                | 10d  | 2     | 10d x 1-1/2 | Lbs  | 2370                | 2305  | 2450  | 1960  | 1795                 | 2495                       | 265   |
| 2-1/4 - 2-5/16 x 11-7/8 | TFL23118      |                 |     |                 | 11-7/8 |       |        |         |                                  |      |       |             |      |                     |       |       |       |                      |                            |       |
| 2-1/4 - 2-5/16 x 14     | TFL2314       |                 |     |                 | 14     |       |        |         |                                  |      |       |             |      |                     |       |       |       |                      |                            |       |
| 2-1/4 - 2-5/16 x 16     | TFL2316       |                 |     |                 | 16     |       |        |         |                                  |      |       |             |      |                     |       |       |       |                      |                            |       |
| 2-1/2 x 9-1/2           | TFL2595       | --              | 18  | 2-1/2           | 9-1/2  | 2     | 1-1/2  | 2       | 6                                | 10d  | 2     | 10d x 1-1/2 | Lbs  | 2370                | 2305  | 2450  | 1771  | 1795                 | 2495                       | 265   |
| 2-1/2 x 11-7/8          | TFL25118      |                 |     |                 | 11-7/8 |       |        |         |                                  |      |       |             |      |                     |       |       |       |                      |                            |       |
| 2-1/2 x 14              | TFL2514       |                 |     |                 | 14     |       |        |         |                                  |      |       |             |      |                     |       |       |       |                      |                            |       |
| 2-1/2 x 16              | TFL2516       |                 |     |                 | 16     |       |        |         |                                  |      |       |             |      |                     |       |       |       |                      |                            |       |
| 3 x 9-1/2               | THO15950-2    | x               | 16  | 3-1/16          | 9-1/2  | 2-3/8 | 1-1/2  | 2-1/4   | 10                               | 16d  | 6     | 10d         | Lbs  | 3355                | 3585  | 3585  | 3180  | 3790                 | 4050                       | 2140  |
|                         |               |                 |     |                 |        |       |        |         |                                  |      |       |             | kN   | 14.92               | 15.95 | 15.95 | 14.15 | 16.86                | 18.02                      | 9.52  |
| 3 x 11-7/8              | THO15118-2    | x               | 16  | 3-1/16          | 11-7/8 | 2-3/8 | 1-1/2  | 2-15/16 | 10                               | 16d  | 6     | 10d         | Lbs  | 3355                | 3550  | 3550  | 3155  | 3790                 | 4020                       | 2140  |
|                         |               |                 |     |                 |        |       |        |         |                                  |      |       |             | kN   | 14.92               | 15.79 | 15.79 | 14.03 | 16.86                | 17.88                      | 9.52  |
| 3-1/2 x 9-1/2           | THO35950      | --              | 16  | 3-9/16          | 9-1/2  | 2-3/8 | 2-1/2  | 2-1/4   | 10                               | 10d  | 2     | 10d x 1-1/2 | Lbs  | 2950                | 2950  | 2950  | 2620  | 2950                 | 3335                       | 485   |
| 3-1/2 x 11-7/8          | THO35118      | --              | 16  | 3-9/16          | 11-7/8 | 2-3/8 | 2-1/2  | 2-1/4   | 10                               | 10d  | 2     | 10d x 1-1/2 | kN   | 13.12               | 13.12 | 13.12 | 11.65 | 13.12                | 14.83                      | 2.16  |
| 3-1/2 x 14              | THO35140      | --              | 18  | 3-9/16          | 14     | 2-3/8 | 2-1/2  | 2-15/16 | 12                               | 10d  | 2     | 10d x 1-1/2 | Lbs  | 3910                | 3910  | 3910  | 3385  | 2950                 | 4310                       | 485   |
| 3-1/2 x 16              | THO35160      |                 |     |                 | 16     |       |        |         |                                  |      |       |             | kN   | 17.39               | 17.39 | 17.39 | 15.06 | 13.12                | 19.17                      | 2.16  |
| 5 x 9-1/2               | THO25950-2    | x               | 12  | 5-1/8           | 9-1/2  | 3     | 2-1/8  | 2-7/8   | 10                               | 16d  | 6     | 10d         | Lbs  | 5090                | 5280  | 5280  | 4570  | 3785                 | 5820                       | 2140  |
| 5 x 11-7/8              | THO25118-2    |                 |     |                 | 11-7/8 |       |        |         |                                  |      |       |             | kN   | 22.64               | 23.49 | 23.49 | 20.33 | 16.84                | 25.89                      | 9.52  |
| 5 x 14                  | THO25140-2    | x               | 12  | 5-1/8           | 14     | 3     | 2-1/8  | 2-15/16 | 12                               | 16d  | 6     | 10d         | Lbs  | 5090                | 6345  | 6345  | 5545  | 3785                 | 7060                       | 2140  |
| 5 x 16                  | THO25160-2    |                 |     |                 | 16     |       |        |         |                                  |      |       |             | kN   | 22.64               | 28.22 | 28.22 | 24.67 | 16.84                | 31.40                      | 9.52  |
| 7 x 9-1/2               | BPH7195       | x               | 12  | 7-1/8           | 9-1/2  | 3     | 2-3/8  | 2-13/16 | 10                               | 16d  | 6     | 10d         | Lbs  | 5300                | 5060  | 5435  | 4340  | --                   | 5530                       | 2935  |
|                         |               |                 |     |                 |        |       |        |         |                                  |      |       |             | kN   | 23.58               | 22.51 | 24.18 | 19.31 | --                   | 24.60                      | 13.06 |
| 7 x 11-7/8              | BPH71118      | x               | 12  | 7-1/8           | 11-7/8 | 3     | 2-3/16 | 2-1/4   | 10                               | 16d  | 6     | 10d         | Lbs  | 5300                | 5060  | 5435  | 4305  | --                   | 5485                       | 2935  |
| 7 x 14                  | BPH7114       |                 |     |                 | 14     |       |        |         |                                  |      |       |             | kN   | 23.58               | 22.51 | 24.18 | 19.15 | --                   | 24.40                      | 13.06 |
| 7 x 16                  | BPH7116       |                 |     |                 | 16     |       |        |         |                                  |      |       |             | kN   | 23.58               | 22.51 | 24.18 | 19.15 | --                   | 24.40                      | 13.06 |

- 1) Factored uplift resistance has been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
  - 2) When I-joist is used as a header, all nails must be 10d x 1-1/2".
  - 3) **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.
- Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.  
New products or updated product information are designated in blue font.

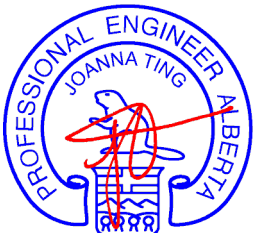
Use in conjunction with USP's current Canadian Product Catalogue for detailed hanger information.



# BPH / TFL / THO Top Mount Hangers



APEGA  
Permit No. P3837

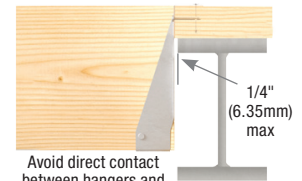


Mar. 2, 2016

**Nailer Options** - Chart represents maximum factored resistance for hangers used on wood nailers.

| USP Series         | Nailer Size <sup>3</sup> | Fastener Schedule |             |       |             | Factored Resistance <sup>2</sup> |                          |               |                          |               |                          |               |                          |
|--------------------|--------------------------|-------------------|-------------|-------|-------------|----------------------------------|--------------------------|---------------|--------------------------|---------------|--------------------------|---------------|--------------------------|
|                    |                          | Header            |             | Joist |             | DF (Lbs)                         |                          | DF (kN)       |                          | S-P-F (Lbs)   |                          | S-P-F (kN)    |                          |
|                    |                          | Qty               | Type        | Qty   | Type        | Vertical 100%                    | Uplift <sup>1</sup> 115% | Vertical 100% | Uplift <sup>1</sup> 115% | Vertical 100% | Uplift <sup>1</sup> 115% | Vertical 100% | Uplift <sup>1</sup> 115% |
| TFL                | 2X                       | 6                 | 10d x 1-1/2 | 2     | 10d x 1-1/2 | 1830                             | 265                      | 8.14          | 1.18                     | 1575          | 230                      | 7.01          | 1.02                     |
|                    | 3X                       | 6                 | 16d x 2-1/2 | 2     | 10d x 1-1/2 | 2305                             | 265                      | 10.25         | 1.18                     | 1980          | 230                      | 8.81          | 1.02                     |
|                    | (2) 2X                   | 6                 | 10d         | 2     | 10d x 1-1/2 | 1845                             | 265                      | 8.21          | 1.18                     | 1585          | 230                      | 7.05          | 1.02                     |
|                    | 4X                       | 6                 | 16d         | 2     | 10d x 1-1/2 | 2535                             | 265                      | 11.28         | 1.18                     | 2180          | 230                      | 9.70          | 1.02                     |
| THO (single joist) | 2X                       | 6                 | 10d x 1-1/2 | 2     | 10d x 1-1/2 | 1960                             | 375                      | 8.72          | 1.67                     | 1685          | 325                      | 7.50          | 1.45                     |
|                    | 3X                       | 6                 | 16d x 2-1/2 | 2     | 10d x 1-1/2 | 2115                             | 375                      | 9.41          | 1.67                     | 1820          | 325                      | 8.10          | 1.45                     |
|                    | (2) 2X                   | 6                 | 10d         | 2     | 10d x 1-1/2 | 1965                             | 375                      | 8.74          | 1.67                     | 1690          | 325                      | 7.52          | 1.45                     |
|                    | 4X                       | 6                 | 16d         | 2     | 10d x 1-1/2 | 2210                             | 375                      | 9.83          | 1.67                     | 1900          | 325                      | 8.45          | 1.45                     |
| THO (double joist) | 2X                       | 6                 | 10d x 1-1/2 | 6     | 10d         | 2095                             | 375                      | 9.32          | 1.67                     | 1800          | 325                      | 8.01          | 1.45                     |
|                    | 3X                       | 6                 | 16d x 2-1/2 | 6     | 10d         | 3360                             | 520                      | 14.95         | 2.31                     | 2890          | 445                      | 12.86         | 1.98                     |
|                    | (2) 2X                   | 10                | 10d         | 6     | 10d         | 3415                             | 520                      | 15.19         | 2.31                     | 2935          | 445                      | 13.06         | 1.98                     |
|                    | 4X                       | 10                | 16d         | 6     | 10d         | 3840                             | 520                      | 17.08         | 2.31                     | 3300          | 445                      | 14.68         | 1.98                     |
| BPH                | 2X                       | 6                 | 10d x 1-1/2 | 4     | 10d x 1-1/2 | 2995                             | 240                      | 13.32         | 1.07                     | 2575          | 205                      | 11.45         | 0.91                     |
|                    | 3X                       | 8                 | 16d x 2-1/2 | 4     | 10d x 1-1/2 | 3400                             | 555                      | 15.12         | 2.47                     | 2925          | 475                      | 13.01         | 2.11                     |
|                    | (2) 2X                   | 8                 | 10d         | 4     | 10d x 1-1/2 | 3325                             | 555                      | 14.79         | 2.47                     | 2860          | 475                      | 12.72         | 2.11                     |
|                    | 4X                       | 8                 | 16d         | 4     | 10d x 1-1/2 | 3235                             | 555                      | 14.39         | 2.47                     | 2780          | 475                      | 12.37         | 2.11                     |

- 1) Factored resistances have been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
- 2) Listed loads shall not be increased.
- 3) The nailer must be sized to fit the supported width and be of sufficient thickness to satisfy specified top flange nailing requirements. A design professional must specify nailer attachment to steel beams.
- 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.



Avoid direct contact between hangers and steel beams, which may cause squeaks

**Typical Nailer installation**

| Joist Size              | USP Stock No. | Web Stiff Req'd | Ga. | Dimensions (in) |        |       |        |         |        | Fastener Schedule <sup>2,3</sup> |       |             |                 | Unit  | Factored Resistance |       |                            |       |       |                      |  |
|-------------------------|---------------|-----------------|-----|-----------------|--------|-------|--------|---------|--------|----------------------------------|-------|-------------|-----------------|-------|---------------------|-------|----------------------------|-------|-------|----------------------|--|
|                         |               |                 |     | W               | H      | D     | TF     | A       | Header |                                  | Joist |             | Download (100%) |       |                     |       | Uplift (115%) <sup>1</sup> |       |       |                      |  |
|                         |               |                 |     |                 |        |       |        |         | Qty    | Type                             | Qty   | Type        | Header Material |       |                     | DF    |                            |       |       |                      |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             | LVL             |       | PSL                 |       |                            | LSL   | SPF   | I-Joist <sup>2</sup> |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             |                 |       |                     |       |                            |       |       |                      |  |
| 1-1/2 x 9-1/2           | TH015950      | --              | 18  | 1-1/2           | 9-1/2  | 2     | 1-1/2  | 1-7/8   | 6      | 10d                              | 2     | 10d x 1-1/2 | Lbs             | 1935  | 1860                | 1920  | 1360                       | 1815  | 1730  | 490                  |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             | kN              | 8.61  | 8.27                | 8.54  | 6.05                       | 8.07  | 7.70  | 2.18                 |  |
| 1-1/2 x 11-7/8          | TH015118      | --              | 18  | 1-1/2           | 11-7/8 | 2     | 1-9/16 | 2       | 6      | 10d                              | 2     | 10d x 1-1/2 | Lbs             | 1935  | 1860                | 1920  | 1505                       | 1880  | 1915  | 490                  |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             | kN              | 8.61  | 8.27                | 8.54  | 6.69                       | 8.36  | 8.52  | 2.18                 |  |
| 1-3/4 x 9-1/2           | TH017950      | --              | 18  | 1-3/4           | 9-1/2  | 2     | 1-1/2  | 2       | 6      | 10d                              | 2     | 10d x 1-1/2 | Lbs             | 1935  | 1860                | 1920  | 1585                       | 1570  | 2020  | 490                  |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             | kN              | 8.61  | 8.27                | 8.54  | 7.05                       | 6.98  | 8.99  | 2.18                 |  |
| 1-3/4 x 11-7/8          | TH017118      | --              | 18  | 1-3/4           | 11-7/8 | 2     | 1-9/16 | 2       | 6      | 10d                              | 2     | 10d x 1-1/2 | Lbs             | 1935  | 1860                | 1920  | 1665                       | 1735  | 2125  | 490                  |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             | kN              | 8.61  | 8.27                | 8.54  | 7.41                       | 7.72  | 9.45  | 2.18                 |  |
| 1-3/4 x 14              | TFL1714       | --              | 18  | 1-3/4           | 14     | 2     | 1-1/2  | 2       | 6      | 10d                              | 2     | 10d x 1-1/2 | Lbs             | 2370  | 2305                | 2450  | 1960                       | 1795  | 2495  | 265                  |  |
| 1-3/4 x 16              | TFL1716       | --              | 18  | 1-3/4           | 16     | 2     | 1-1/2  | 2       | 6      | 10d                              | 2     | 10d x 1-1/2 | kN              | 10.54 | 10.25               | 10.90 | 8.72                       | 7.98  | 11.10 | 1.18                 |  |
| 2-1/4 - 2-5/16 x 9-1/2  | TFL2395       | --              | 18  | 2-5/16          | 9-1/2  | 2     | 1-1/2  | 2       | 6      | 10d                              | 2     | 10d x 1-1/2 | Lbs             | 2370  | 2305                | 2450  | 1960                       | 1795  | 2495  | 265                  |  |
| 2-1/4 - 2-5/16 x 11-7/8 | TFL23118      |                 |     |                 | 11-7/8 |       |        |         |        |                                  |       |             |                 |       |                     |       |                            |       |       |                      |  |
| 2-1/4 - 2-5/16 x 14     | TFL2314       |                 |     |                 | 14     |       |        |         |        |                                  |       |             |                 |       |                     |       |                            |       |       |                      |  |
| 2-1/4 - 2-5/16 x 16     | TFL2316       |                 |     |                 | 16     |       |        |         |        |                                  |       |             |                 |       |                     |       |                            |       |       |                      |  |
| 2-1/2 x 9-1/2           | TFL2595       | --              | 18  | 2-1/2           | 9-1/2  | 2     | 1-1/2  | 2       | 6      | 10d                              | 2     | 10d x 1-1/2 | Lbs             | 2370  | 2305                | 2450  | 1771                       | 1795  | 2495  | 265                  |  |
| 2-1/2 x 11-7/8          | TFL25118      |                 |     |                 | 11-7/8 |       |        |         |        |                                  |       |             |                 |       |                     |       |                            |       |       |                      |  |
| 2-1/2 x 14              | TFL2514       |                 |     |                 | 14     |       |        |         |        |                                  |       |             |                 |       |                     |       |                            |       |       |                      |  |
| 2-1/2 x 16              | TFL2516       |                 |     |                 | 16     |       |        |         |        |                                  |       |             |                 |       |                     |       |                            |       |       |                      |  |
| 3 x 9-1/2               | TH015950-2    | x               | 16  | 3-1/16          | 9-1/2  | 2-3/8 | 1-1/2  | 2-1/4   | 10     | 16d                              | 6     | 10d         | Lbs             | 3355  | 3585                | 3585  | 3180                       | 3790  | 4050  | 2140                 |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             | kN              | 14.92 | 15.95               | 15.95 | 14.15                      | 16.86 | 18.02 | 9.52                 |  |
| 3 x 11-7/8              | TH015118-2    | x               | 16  | 3-1/16          | 11-7/8 | 2-3/8 | 1-1/2  | 2-15/16 | 10     | 16d                              | 6     | 10d         | Lbs             | 3355  | 3550                | 3550  | 3155                       | 3790  | 4020  | 2140                 |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             | kN              | 14.92 | 15.79               | 15.79 | 14.03                      | 16.86 | 17.88 | 9.52                 |  |
| 3-1/2 x 9-1/2           | TH035950      | --              | 16  | 3-9/16          | 9-1/2  | 2-3/8 | 2-1/2  | 2-1/4   | 10     | 10d                              | 2     | 10d x 1-1/2 | Lbs             | 2950  | 2950                | 2950  | 2620                       | 2950  | 3335  | 485                  |  |
| 3-1/2 x 11-7/8          | TH035118      | --              | 16  | 3-9/16          | 11-7/8 | 2-3/8 | 2-1/2  | 2-1/4   | 10     | 10d                              | 2     | 10d x 1-1/2 | kN              | 13.12 | 13.12               | 13.12 | 11.65                      | 13.12 | 14.83 | 2.16                 |  |
| 3-1/2 x 14              | TH035140      | --              | 18  | 3-9/16          | 14     | 2-3/8 | 2-1/2  | 2-15/16 | 12     | 10d                              | 2     | 10d x 1-1/2 | Lbs             | 3910  | 3910                | 3910  | 3385                       | 2950  | 4310  | 485                  |  |
| 3-1/2 x 16              | TH035160      | --              | 18  | 3-9/16          | 16     | 2-3/8 | 2-1/2  | 2-15/16 | 12     | 10d                              | 2     | 10d x 1-1/2 | kN              | 17.39 | 17.39               | 17.39 | 15.06                      | 13.12 | 19.17 | 2.16                 |  |
| 5 x 9-1/2               | TH025950-2    | x               | 12  | 5-1/8           | 9-1/2  | 3     | 2-1/8  | 2-7/8   | 10     | 16d                              | 6     | 10d         | Lbs             | 5090  | 5280                | 5280  | 4570                       | 3785  | 5820  | 2140                 |  |
| 5 x 11-7/8              | TH025118-2    | x               | 12  | 5-1/8           | 11-7/8 | 3     | 2-1/8  | 2-7/8   | 10     | 16d                              | 6     | 10d         | kN              | 22.64 | 23.49               | 23.49 | 20.33                      | 16.84 | 25.89 | 9.52                 |  |
| 5 x 14                  | TH025140-2    | x               | 12  | 5-1/8           | 14     | 3     | 2-1/8  | 2-15/16 | 12     | 16d                              | 6     | 10d         | Lbs             | 5090  | 6345                | 6345  | 5545                       | 3785  | 7060  | 2140                 |  |
| 5 x 16                  | TH025160-2    | x               | 12  | 5-1/8           | 16     | 3     | 2-1/8  | 2-15/16 | 12     | 16d                              | 6     | 10d         | kN              | 22.64 | 28.22               | 28.22 | 24.67                      | 16.84 | 31.40 | 9.52                 |  |
| 7 x 9-1/2               | BPH7195       | x               | 12  | 7-1/8           | 9-1/2  | 3     | 2-3/8  | 2-13/16 | 10     | 16d                              | 6     | 10d         | Lbs             | 5300  | 5060                | 5435  | 4340                       | --    | 5530  | 2935                 |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             | kN              | 23.58 | 22.51               | 24.18 | 19.31                      | --    | 24.60 | 13.06                |  |
| 7 x 11-7/8              | BPH71118      | x               | 12  | 7-1/8           | 11-7/8 | 3     | 2-3/16 | 2-1/4   | 10     | 16d                              | 6     | 10d         | Lbs             | 5300  | 5060                | 5435  | 4305                       | --    | 5485  | 2935                 |  |
| 7 x 14                  | BPH7114       |                 |     |                 | 14     |       |        |         |        |                                  |       |             |                 |       |                     |       |                            |       |       |                      |  |
| 7 x 16                  | BPH7116       |                 |     |                 | 16     |       |        |         |        |                                  |       |             |                 |       |                     |       |                            |       |       |                      |  |
|                         |               |                 |     |                 |        |       |        |         |        |                                  |       |             | kN              | 23.58 | 22.51               | 24.18 | 19.15                      | --    | 24.40 | 13.06                |  |

- 1) Factored uplift resistance has been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.
  - 2) When I-joist is used as a header, all nails must be 10d x 1-1/2".
  - 3) **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.
- Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.  
New products or updated product information are designated in blue font.

Use in conjunction with USP's current Canadian Product Catalogue for detailed hanger information.



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