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 Patent Can 2,507,332



## LTS 2P ENGINEERED - 2.5"x2.5" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |       |       |       |       |      |
|--------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|        | LTS 2P                  |       |       |       |       |       |       |       |       |      |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"  | 10'   | 12'   | 14'   | 16'  |
|        | WSD                     | 17000 | 15900 | 14900 | 14000 | 13000 | 12200 | 9400  | 7350  | 5850 |
|        | LSD                     | 24000 | 22500 | 21100 | 19800 | 18500 | 17300 | 13300 | 10400 | 8300 |

| PLATE                                 | PLATE CAPACITIES (lbs) |         |           |       |       |       |       |          |       |       |
|---------------------------------------|------------------------|---------|-----------|-------|-------|-------|-------|----------|-------|-------|
| OPTION TO<br>INTERCHANGE<br>ANY PLATE | Plate Size (in)        |         | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | DM (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 7 | 769       | 18800 | 14100 | 18800 |       | 436      | 6900  | 9200  |
|                                       | LSD                    |         | 1080      | 26500 | 19800 | 26500 |       | 615      | 9700  | 13000 |
|                                       | WSD                    | 6 x 7   | 769       | 18800 | 28300 | 32300 |       | 436      | 13700 | 18300 |
|                                       | LSD                    |         | 1080      | 26500 | 39900 | 45500 |       | 615      | 19300 | 25800 |

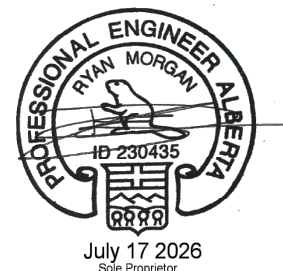
| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      |                                                                                                      |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED - SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
| WSD – 2000 psf<br>LSD – 2800 psf | 24 x 24 x 9              | ANY        | 8000  | 11400 | 3    | 3    |      |                                                                                                      |
|                                  | 30 x 30 x 9              | ANY        | 10000 | 14200 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | ANY        | 14000 | 19900 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | ANY        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 24 x 24 x 9              | ANY        | 10000 | 14200 | 3    | 3    | 3    |                                                                                                      |
|                                  | 30 x 30 x 9              | ANY        | 14000 | 19900 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | ANY        | 16000 | 22700 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | ANY        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |

**NOTE** COLUMNS NEED MINIMUM EMBEDMENT OF 3" INTO CONCRETE SLAB

COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam



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## LTS 2P ENGINEERED - 2.5"x2.5" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |       |       |       |      |      |
|--------|-------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|
|        | LTS 2P                  |       |       |       |       |       |       |       |      |      |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"  | 10'   | 12'   | 14'  | 16'  |
|        | WSD                     | 15100 | 14000 | 13000 | 12000 | 10400 | 9600  | 7200  | 5500 | 4300 |
|        | LSD                     | 21300 | 19800 | 18350 | 17000 | 14650 | 13550 | 10100 | 7750 | 6100 |

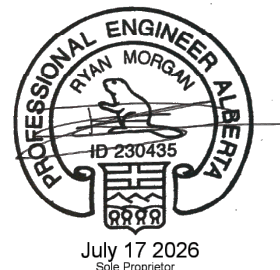
| PLATE                                 | PLATE CAPACITIES (lbs) |         |           |       |       |       |       |          |       |       |
|---------------------------------------|------------------------|---------|-----------|-------|-------|-------|-------|----------|-------|-------|
| OPTION TO<br>INTERCHANGE<br>ANY PLATE | Plate Size (in)        |         | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | DM (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 7 | 769       | 18800 | 14100 | 18800 |       | 436      | 6900  | 9200  |
|                                       | LSD                    |         | 1080      | 26500 | 19800 | 26500 |       | 615      | 9700  | 13000 |
|                                       | WSD                    | 6 x 7   | 769       | 18800 | 28300 | 32300 |       | 436      | 13700 | 18300 |
|                                       | LSD                    |         | 1080      | 26500 | 39900 | 45500 |       | 615      | 19300 | 25800 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      |                                                                                                      |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED - SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
| WSD – 2000 psf<br>LSD – 2800 psf | 24 x 24 x 9              | ANY        | 8000  | 11400 | 3    | 3    |      |                                                                                                      |
|                                  | 30 x 30 x 9              | ANY        | 10000 | 14200 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | ANY        | 14000 | 19900 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | ANY        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 24 x 24 x 9              | ANY        | 10000 | 14200 | 3    | 3    | 3    |                                                                                                      |
|                                  | 30 x 30 x 9              | ANY        | 14000 | 19900 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | ANY        | 16000 | 22700 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | ANY        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |

**NOTE** COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam



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## LTS 4P ENGINEERED - 2.5"x2.5" (50) ksi

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |       |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | LTS 3                   |       |       |       |       | LTS 4 |       |       |       |       |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"  | 10'   | 12'   | 14'   | 16'   |
|        | WSD                     | 20800 | 19500 | 18300 | 17100 | 16000 | 14600 | 11500 | 9000  | 7100  |
|        | LSD                     | 29500 | 27650 | 25900 | 24200 | 22600 | 21200 | 16300 | 12700 | 10100 |

| PLATE                                 | PLATE CAPACITIES (lbs) |         |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|---------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE<br>ANY PLATE | Plate Size (in)        |         | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 7 | 769       | 18800 | 14100 | 18800 |       | 436       | 6900  | 9200  |
|                                       | LSD                    |         | 1080      | 26500 | 19800 | 26500 |       | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 7   | 769       | 18800 | 28300 | 32300 |       | 436       | 13700 | 18300 |
|                                       | LSD                    |         | 1080      | 26500 | 39900 | 45500 |       | 615       | 19300 | 25800 |

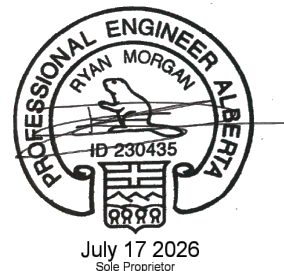
| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      |                                                                                                      |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED - SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
| WSD – 2000 psf<br>LSD – 2800 psf | 24 x 24 x 9              | ANY        | 8000  | 11400 | 3    | 3    |      |                                                                                                      |
|                                  | 30 x 30 x 9              | ANY        | 10000 | 14200 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | ANY        | 14000 | 19900 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | ANY        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 24 x 24 x 9              | ANY        | 10000 | 14200 | 3    | 3    | 3    |                                                                                                      |
|                                  | 30 x 30 x 9              | ANY        | 14000 | 19900 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | ANY        | 16000 | 22700 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | ANY        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |

### NOTE COLUMNS NEED MINIMUM EMBEDMENT OF 3" INTO CONCRETE SLAB

COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1 Measure the distance between bottom of beam and top of footing
- Step 2 Remove both plates from screw assembly by removing the nut
- Step 3 Replace nut on the rod until it reaches the pressed threads
- Step 4 Extend screw to its midpoint for future adjustment
- Step 5 Take measurement of complete column including top and base plates
- Step 6 Take measurement from step # 1 and subtract from step # 5
- Step 7 Cut off difference from bottom of column and be sure cut is true
- Step 8 Choose plate to cover full width of beam
- Step 9 Place plate on top of nut with rod inserted in the center of the hole
- Step 10 Place other plate under column and center
- Step 11 Center column on footing and beam and affix both
- Step 12 Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13 Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14 Be sure column is in a completely vertical position to support beam





## LTS 4P ENGINEERED - 2.5"x2.5" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |       |       |       |      |      |
|--------|-------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|
|        | LTS 3                   |       |       |       |       | LTS 4 |       |       |      |      |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"  | 10'   | 12'   | 14'  | 16'  |
|        | WSD                     | 18500 | 17100 | 15900 | 14700 | 12700 | 11700 | 8700  | 6700 | 5200 |
|        | LSD                     | 26100 | 24200 | 22500 | 20800 | 17900 | 16600 | 12400 | 9500 | 7400 |

| PLATE                                 | PLATE CAPACITIES (lbs) |         |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|---------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE<br>ANY PLATE | Plate Size (in)        |         | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 7 | 769       | 18800 | 14100 | 18800 |       | 436       | 6900  | 9200  |
|                                       | LSD                    |         | 1080      | 26500 | 19800 | 26500 |       | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 7   | 769       | 18800 | 28300 | 32300 |       | 436       | 13700 | 18300 |
|                                       | LSD                    |         | 1080      | 26500 | 39900 | 45500 |       | 615       | 19300 | 25800 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      |                                                                                                      |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED - SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
| WSD – 2000 psf<br>LSD – 2800 psf | 24 x 24 x 9              | ANY        | 8000  | 11400 | 3    | 3    |      |                                                                                                      |
|                                  | 30 x 30 x 9              | ANY        | 10000 | 14200 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | ANY        | 14000 | 19900 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | ANY        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | ANY        | 30000 | 42000 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 24 x 24 x 9              | ANY        | 10000 | 14200 | 3    | 3    | 3    |                                                                                                      |
|                                  | 30 x 30 x 9              | ANY        | 14000 | 19900 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | ANY        | 16000 | 22700 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | ANY        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | ANY        | 38000 | 52000 | 6    | 4    | 4    |                                                                                                      |

**NOTE** COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam



July 17 2026  
 Sole Proprietor



## LTS 6P ENGINEERED – 3"x3" (50) ksi

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |       |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | LTS 5                   |       |       |       |       | LTS 6 |       |       |       |       |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"  | 10'   | 12'   | 14'   | 16'   |
|        | WSD                     | 29600 | 28100 | 26700 | 25400 | 24000 | 22800 | 18200 | 14600 | 11900 |
|        | LSD                     | 41900 | 39900 | 37900 | 36000 | 34100 | 32600 | 25800 | 20800 | 16900 |

| PLATE                                 | PLATE CAPACITIES (lbs) |         |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|---------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE<br>ANY PLATE | Plate Size (in)        |         | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 7 | 769       | 18800 | 14100 | 18800 |       | 436       | 6900  | 9200  |
|                                       | LSD                    |         | 1080      | 26500 | 19800 | 26500 |       | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 7   | 769       | 18800 | 28300 | 32300 |       | 436       | 13700 | 18300 |
|                                       | LSD                    |         | 1080      | 26500 | 39900 | 45500 |       | 615       | 19300 | 25800 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED – SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 24 x 24 x 9              | 1/2        | 8000  | 11400 | 3    | 3    |      |                                                                                                      |
|                                  | 30 x 30 x 9              | 1/2        | 10000 | 14200 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | 1/2        | 14000 | 19900 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | 1/2        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 1/2        | 30000 | 42000 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 24 x 24 x 9              | 1/2        | 10000 | 14200 | 3    | 3    | 3    |                                                                                                      |
|                                  | 30 x 30 x 9              | 1/2        | 14000 | 19900 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | 1/2        | 16000 | 22700 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | 1/2        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 1/2        | 38000 | 52000 | 6    | 4    | 4    |                                                                                                      |

### NOTE COLUMNS NEED MINIMUM EMBEDMENT OF 3" INTO CONCRETE SLAB

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### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
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- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
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- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
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JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |       |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | LTS 5                   |       |       |       |       | LTS 6 |       |       |       |       |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"  | 10'   | 12'   | 14'   | 16'   |
|        | WSD                     | 27000 | 25500 | 24000 | 22500 | 19800 | 18600 | 14300 | 11200 | 8900  |
|        | LSD                     | 38200 | 36000 | 33900 | 32000 | 28100 | 26400 | 26400 | 15900 | 12600 |

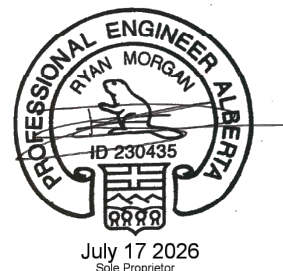
| PLATE                                 | PLATE CAPACITIES (lbs) |         |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|---------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE<br>ANY PLATE | Plate Size (in)        |         | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 7 | 769       | 18800 | 14100 | 18800 |       | 436       | 6900  | 9200  |
|                                       | LSD                    |         | 1080      | 26500 | 19800 | 26500 |       | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 7   | 769       | 18800 | 28300 | 32300 |       | 436       | 13700 | 18300 |
|                                       | LSD                    |         | 1080      | 26500 | 39900 | 45500 |       | 615       | 19300 | 25800 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED – SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 24 x 24 x 9              | 1/2        | 8000  | 11400 | 3    | 3    |      |                                                                                                      |
|                                  | 30 x 30 x 9              | 1/2        | 10000 | 14200 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | 1/2        | 14000 | 19900 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | 1/2        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 1/2        | 30000 | 42000 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 24 x 24 x 9              | 1/2        | 10000 | 14200 | 3    | 3    | 3    |                                                                                                      |
|                                  | 30 x 30 x 9              | 1/2        | 14000 | 19900 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | 1/2        | 16000 | 22700 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | 1/2        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 1/2        | 38000 | 52000 | 6    | 4    | 4    |                                                                                                      |

**NOTE** COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam



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 Patent Can 2,507,332



## LTS 8 ENGINEERED - 3"x3" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |       |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | LTS 7                   |       |       |       |       | LTS 8 |       |       |       |       |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"  | 10'   | 12'   | 14'   | 16'   |
|        | WSD                     | 37600 | 35900 | 34500 | 31700 | 29800 | 27600 | 21200 | 15400 | 10600 |
|        | LSD                     | 53950 | 51700 | 48900 | 46100 | 44300 | 41600 | 30200 | 22800 | 15100 |

| PLATE                                 | PLATE CAPACITIES (lbs) |         |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|---------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE ANY<br>PLATE | Plate Size (in)        |         | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 9 | 769       | 24200 | 14100 | 18800 | 23600 | 436       | 6900  | 9200  |
|                                       | LSD                    |         | 1080      | 34100 | 19900 | 26500 | 33300 | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 9   | 769       | 24200 | 36400 | 32300 | 40400 | 436       | 17700 | 23500 |
|                                       | LSD                    |         | 1080      | 34100 | 51300 | 45500 | 57000 | 615       | 25000 | 33100 |
|                                       | WSD                    | 8 x 9   | 769       | 24400 | 36400 | 48500 | 53900 | 436       | 17700 | 23500 |
|                                       | LSD                    |         | 1080      | 34400 | 51600 | 68800 | 76400 | 615       | 25000 | 33100 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      | REINFORCING EVENLY<br>SPACED EITHER WAY AND TIED<br>- SEE FULL FOOTING CHART<br>FOR MORE INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 42 x 42 x 10             | ANY        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | ANY        | 30000 | 42000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 42 x 42 x 10             | 8" x 8"    | 22500 | 32500 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 8" x 8"    | 30500 | 42500 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 42 x 42 x 10             | ANY        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | ANY        | 38000 | 52000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 42 x 42 x 10             | 8" x 8"    | 29000 | 41000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 8" x 8"    | 38500 | 54000 | 6    | 4    | 4    |                                                                                                      |

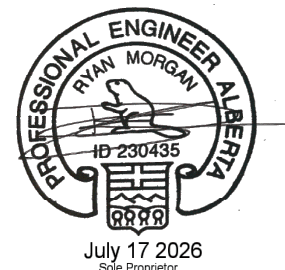
**NOTE** COLUMNS NEED MINIMUM EMBEDMENT OF 3" INTO CONCRETE SLAB

COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9

THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam



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 Patent Can 2,507,332



## LTS 8 ENGINEERED - 3 x 3 (50) ksi

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |       |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | LTS 7                   |       |       |       |       | LTS 8 |       |       |       |       |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"  | 10'   | 12'   | 14'   | 16'   |
|        | WSD                     | 35200 | 33300 | 31800 | 29700 | 27800 | 25600 | 19200 | 13400 | 7900  |
|        | LSD                     | 50950 | 48700 | 45900 | 43100 | 41300 | 37600 | 27200 | 19800 | 12100 |

| PLATE                                 | PLATE CAPACITIES (lbs) |         |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|---------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE ANY<br>PLATE | Plate Size (in)        |         | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 9 | 769       | 24200 | 14100 | 18800 | 23600 | 436       | 6900  | 9200  |
|                                       | LSD                    |         | 1080      | 34100 | 19900 | 26500 | 33300 | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 9   | 769       | 24200 | 36400 | 32300 | 40400 | 436       | 17700 | 23500 |
|                                       | LSD                    |         | 1080      | 34100 | 51300 | 45500 | 57000 | 615       | 25000 | 33100 |
|                                       | WSD                    | 8 x 9   | 769       | 24400 | 36400 | 48500 | 53900 | 436       | 17700 | 23500 |
|                                       | LSD                    |         | 1080      | 34400 | 51600 | 68800 | 76400 | 615       | 25000 | 33100 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      | REINFORCING EVENLY<br>SPACED EITHER WAY AND TIED<br>- SEE FULL FOOTING CHART<br>FOR MORE INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 42 x 42 x 10             | ANY        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | ANY        | 30000 | 42000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 42 x 42 x 10             | 8" x 8"    | 22500 | 32500 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 8" x 8"    | 30500 | 42500 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 42 x 42 x 10             | ANY        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | ANY        | 38000 | 52000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 42 x 42 x 10             | 8" x 8"    | 29000 | 41000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 8" x 8"    | 38500 | 54000 | 6    | 4    | 4    |                                                                                                      |

**NOTE** COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam





## LTS 10 ENGINEERED – 3.5"x3.5" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |        |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
|        | LTS 9                   |       |       |       |       | LTS 10 |       |       |       |       |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"   | 10'   | 12'   | 14'   | 16'   |
|        | WSD                     | 48600 | 47000 | 45500 | 42800 | 41200  | 39800 | 34100 | 26400 | 20300 |
|        | LSD                     | 69000 | 66700 | 64600 | 61000 | 58500  | 56500 | 47100 | 36100 | 28800 |

| PLATE                                 | PLATE CAPACITIES (lbs) |          |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|----------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE ANY<br>PLATE | Plate Size (in)        |          | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 10 | 769       | 26900 | 14100 | 18800 | 23600 | 436       | 6900  | 9200  |
|                                       | LSD                    |          | 1080      | 37900 | 1990  | 26500 | 33300 | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 10   | 769       | 26900 | 40400 | 32300 | 40400 | 436       | 19600 | 26200 |
|                                       | LSD                    |          | 1080      | 37900 | 57000 | 45500 | 57000 | 615       | 27600 | 36900 |
|                                       | WSD                    | 8 x 10   | 769       | 20900 | 40400 | 53900 | 53900 | 436       | 19600 | 26200 |
|                                       | LSD                    |          | 1080      | 29500 | 57000 | 76000 | 76000 | 615       | 27600 | 36900 |

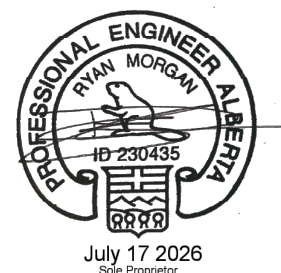
| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED – SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 42 x 42 x 10             | 8" x 8"    | 22500 | 32500 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 8" x 8"    | 30500 | 42500 | 6    | 4    | 4    |                                                                                                      |
|                                  | 54 x 54 x 12             | 8" x 8"    | 36000 | 51100 | 7    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             | 8" x 8"    | 46200 | 66200 | 9    | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             | 8" x 8"    | 56000 | 79500 | 12   | 6    | 5    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 42 x 42 x 10             | 8" x 8"    | 29000 | 41000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             | 8" x 8"    | 38500 | 54000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 54 x 54 x 12             | 8" x 8"    | 48000 | 68200 | 8    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             | 8" x 8"    | 58000 | 82500 | 10   | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             | 8" x 8"    | 65000 | 90500 | 12   | 6    | 5    |                                                                                                      |

### NOTE COLUMNS NEED MINIMUM EMBEDMENT OF 3" INTO CONCRETE SLAB

COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam



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## LTS 10 ENGINEERED – 3.5"x3.5" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |        |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
|        | LTS 9                   |       |       |       |       | LTS 10 |       |       |       |       |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"   | 10'   | 12'   | 14'   | 16'   |
|        | WSD                     | 46200 | 45100 | 43300 | 40600 | 39500  | 37900 | 32300 | 24200 | 18700 |
|        | LSD                     | 65600 | 64000 | 61400 | 57600 | 56000  | 53800 | 45400 | 33300 | 25500 |

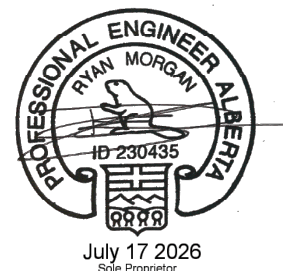
| PLATE                                 | PLATE CAPACITIES (lbs) |          |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|----------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE ANY<br>PLATE | Plate Size (in)        |          | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 3.5 x 10 | 769       | 26900 | 14100 | 18800 | 23600 | 436       | 6900  | 9200  |
|                                       | LSD                    |          | 1080      | 37900 | 1990  | 26500 | 33300 | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 10   | 769       | 26900 | 40400 | 32300 | 40400 | 436       | 19600 | 26200 |
|                                       | LSD                    |          | 1080      | 37900 | 57000 | 45500 | 57000 | 615       | 27600 | 36900 |
|                                       | WSD                    | 8 x 10   | 769       | 20900 | 40400 | 53900 | 53900 | 436       | 19600 | 26200 |
|                                       | LSD                    |          | 1080      | 29500 | 57000 | 76000 | 76000 | 615       | 27600 | 36900 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |  |            |       |       |      |      |      | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED – SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
|----------------------------------|--------------------------|--|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        |  | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 42 x 42 x 10             |  | 8" x 8"    | 22500 | 32500 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             |  | 8" x 8"    | 30500 | 42500 | 6    | 4    | 4    |                                                                                                      |
|                                  | 54 x 54 x 12             |  | 8" x 8"    | 36000 | 51100 | 7    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             |  | 8" x 8"    | 46200 | 66200 | 9    | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             |  | 8" x 8"    | 56000 | 79500 | 12   | 6    | 5    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 42 x 42 x 10             |  | 8" x 8"    | 29000 | 41000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 48 x 48 x 10             |  | 8" x 8"    | 38500 | 54000 | 6    | 4    | 4    |                                                                                                      |
|                                  | 54 x 54 x 12             |  | 8" x 8"    | 48000 | 68200 | 8    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             |  | 8" x 8"    | 58000 | 82500 | 10   | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             |  | 8" x 8"    | 65000 | 90500 | 12   | 6    | 5    |                                                                                                      |

**NOTE** COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1 Measure the distance between bottom of beam and top of footing
- Step 2 Remove both plates from screw assembly by removing the nut
- Step 3 Replace nut on the rod until it reaches the pressed threads
- Step 4 Extend screw to its midpoint for future adjustment
- Step 5 Take measurement of complete column including top and base plates
- Step 6 Take measurement from step # 1 and subtract from step # 5
- Step 7 Cut off difference from bottom of column and be sure cut is true
- Step 8 Choose plate to cover full width of beam
- Step 9 Place plate on top of nut with rod inserted in the center of the hole
- Step 10 Place other plate under column and center
- Step 11 Center column on footing and beam and affix both
- Step 12 Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13 Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14 Be sure column is in a completely vertical position to support beam





## LTS 12 ENGINEERED - 4"x4" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |        |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
|        | LTS 11                  |       |       |       |       | LTS 12 |       |       |       |       |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"   | 10'   | 12'   | 14'   | 16'   |
|        | WSD                     | 66800 | 64200 | 62200 | 59600 | 56900  | 52000 | 42800 | 34600 | 28800 |
|        | LSD                     | 94800 | 91500 | 88800 | 84300 | 81200  | 74800 | 60900 | 49200 | 41000 |

| PLATE                                 | PLATE CAPACITIES (lbs) |        |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|--------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE ANY<br>PLATE | Plate Size (in)        |        | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 4 x 13 | 769       | 35000 | 14100 | 18800 | 23600 | 436       | 6900  | 9200  |
|                                       | LSD                    |        | 1080      | 49400 | 19900 | 26500 | 33300 | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 13 | 769       | 35000 | 52500 | 32300 | 40400 | 436       | 25500 | 34000 |
|                                       | LSD                    |        | 1080      | 49400 | 74000 | 45500 | 57000 | 615       | 36000 | 47900 |
|                                       | WSD                    | 8 x 13 | 769       | 35000 | 52500 | 70000 | 53900 | 436       | 25500 | 34000 |
|                                       | LSD                    |        | 1080      | 49400 | 74000 | 98700 | 76000 | 615       | 36000 | 47900 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |        |      |      |      | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED – SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|--------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD    | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 54 x 54 x 12             | 8" x 8"    | 36000 | 51100  | 7    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             | 8" x 8"    | 46200 | 66200  | 9    | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             | 8" x 8"    | 56000 | 79500  | 12   | 6    | 5    |                                                                                                      |
|                                  | 72 x 72 x 14             | 8" x 8"    | 65500 | 94000  | 16   | 9    | 6    |                                                                                                      |
|                                  | 78 x 78 x 14             | 8" x 8"    | 76500 | 109600 |      | 11   | 7    |                                                                                                      |
|                                  | 84 x 84 x 14             | 8" x 8"    | 88000 | 125000 |      | 12   | 8    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 54 x 54 x 12             | 8" x 8"    | 48000 | 68200  | 8    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             | 8" x 8"    | 58000 | 82500  | 10   | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             | 8" x 8"    | 65000 | 90500  | 12   | 6    | 5    |                                                                                                      |
|                                  | 72 x 72 x 14             | 8" x 8"    | 82500 | 118000 |      | 9    | 6    |                                                                                                      |
|                                  | 78 x 78 x 14             | 8" x 8"    | 94000 | 130500 |      | 11   | 7    |                                                                                                      |

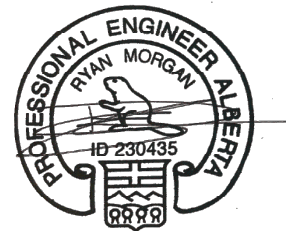
### NOTE COLUMNS NEED MINIMUM EMBEDMENT OF 3" INTO CONCRETE SLAB

COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9

THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1 Measure the distance between bottom of beam and top of footing
- Step 2 Remove both plates from screw assembly by removing the nut
- Step 3 Replace nut on the rod until it reaches the pressed threads
- Step 4 Extend screw to its midpoint for future adjustment
- Step 5 Take measurement of complete column including top and base plates
- Step 6 Take measurement from step # 1 and subtract from step # 5
- Step 7 Cut off difference from bottom of column and be sure cut is true
- Step 8 Choose plate to cover full width of beam
- Step 9 Place plate on top of nut with rod inserted in the center of the hole
- Step 10 Place other plate under column and center
- Step 11 Center column on footing and beam and affix both
- Step 12 Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13 Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14 Be sure column is in a completely vertical position to support beam



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 Patent Can 2,507,332



## LTS 12 ENGINEERED - 4 x 4 (50) ksi

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |        |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
|        | LTS 11                  |       |       |       |       | LTS 12 |       |       |       |       |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"   | 10'   | 12'   | 14'   | 16'   |
|        | WSD                     | 63200 | 61000 | 58600 | 55900 | 52100  | 48400 | 39300 | 29700 | 24600 |
|        | LSD                     | 90200 | 87500 | 83200 | 80500 | 75400  | 68800 | 55900 | 42200 | 35000 |

| PLATE                                 | PLATE CAPACITIES (lbs) |        |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|--------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE ANY<br>PLATE | Plate Size (in)        |        | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 4 x 13 | 769       | 35000 | 14100 | 18800 | 23600 | 436       | 6900  | 9200  |
|                                       | LSD                    |        | 1080      | 49400 | 19900 | 26500 | 33300 | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 13 | 769       | 35000 | 52500 | 32300 | 40400 | 436       | 25500 | 34000 |
|                                       | LSD                    |        | 1080      | 49400 | 74000 | 45500 | 57000 | 615       | 36000 | 47900 |
|                                       | WSD                    | 8 x 13 | 769       | 35000 | 52500 | 70000 | 53900 | 436       | 25500 | 34000 |
|                                       | LSD                    |        | 1080      | 49400 | 74000 | 98700 | 76000 | 615       | 36000 | 47900 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |        |      |      |      | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED – SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|--------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD    | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 54 x 54 x 12             | 8" x 8"    | 36000 | 51100  | 7    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             | 8" x 8"    | 46200 | 66200  | 9    | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             | 8" x 8"    | 56000 | 79500  | 12   | 6    | 5    |                                                                                                      |
|                                  | 72 x 72 x 14             | 8" x 8"    | 65500 | 94000  | 16   | 9    | 6    |                                                                                                      |
|                                  | 78 x 78 x 14             | 8" x 8"    | 76500 | 109600 |      | 11   | 7    |                                                                                                      |
|                                  | 84 x 84 x 14             | 8" x 8"    | 88000 | 125000 |      | 12   | 8    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 54 x 54 x 12             | 8" x 8"    | 48000 | 68200  | 8    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             | 8" x 8"    | 58000 | 82500  | 10   | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             | 8" x 8"    | 65000 | 90500  | 12   | 6    | 5    |                                                                                                      |
|                                  | 72 x 72 x 14             | 8" x 8"    | 82500 | 118000 |      | 9    | 6    |                                                                                                      |
|                                  | 78 x 78 x 14             | 8" x 8"    | 94000 | 130500 |      | 11   | 7    |                                                                                                      |

**NOTE** COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam



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 Patent Can 2,507,332



## LTS 14 ENGINEERED - 5"x5" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |        |        |        |        |        |        |       |       |       |
|--------|-------------------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
|        | LTS 11                  |        |        |        |        | LTS 12 |        |       |       |       |
|        | HEIGHT                  | 7'6"   | 8'0"   | 8'6"   | 9'0"   | 9'6"   | 10'    | 12'   | 14'   | 16'   |
|        | WSD                     | 85200  | 82800  | 80300  | 77700  | 75100  | 72500  | 62200 | 52800 | 44700 |
|        | LSD                     | 120900 | 117500 | 113900 | 110300 | 106600 | 102900 | 88300 | 74900 | 63400 |

| PLATE                                 | PLATE CAPACITIES (lbs) |        |           |       |       |       |       |           |       |       |
|---------------------------------------|------------------------|--------|-----------|-------|-------|-------|-------|-----------|-------|-------|
| OPTION TO<br>INTERCHANGE ANY<br>PLATE | Plate Size (in)        |        | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | SPF (psi) | 4.5"  | 6.0"  |
|                                       | WSD                    | 4 x 13 | 769       | 35000 | 14100 | 18800 | 23600 | 436       | 6900  | 9200  |
|                                       | LSD                    |        | 1080      | 49400 | 19900 | 26500 | 33300 | 615       | 9700  | 13000 |
|                                       | WSD                    | 6 x 13 | 769       | 35000 | 52500 | 32300 | 40400 | 436       | 25500 | 34000 |
|                                       | LSD                    |        | 1080      | 49400 | 74000 | 45500 | 57000 | 615       | 36000 | 47900 |
|                                       | WSD                    | 8 x 13 | 769       | 35000 | 52500 | 70000 | 53900 | 436       | 25500 | 34000 |
|                                       | LSD                    |        | 1080      | 49400 | 74000 | 98700 | 76000 | 615       | 36000 | 47900 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |        |      |      |      | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED – SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|--------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD    | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 54 x 54 x 12             | 8" x 8"    | 36000 | 51100  | 7    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             | 8" x 8"    | 46200 | 66200  | 9    | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             | 8" x 8"    | 56000 | 79500  | 12   | 6    | 5    |                                                                                                      |
|                                  | 72 x 72 x 14             | 8" x 8"    | 65500 | 94000  | 16   | 9    | 6    |                                                                                                      |
|                                  | 78 x 78 x 14             | 8" x 8"    | 76500 | 109600 |      | 11   | 7    |                                                                                                      |
|                                  | 84 x 84 x 14             | 8" x 8"    | 88000 | 125000 |      | 12   | 8    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 54 x 54 x 12             | 8" x 8"    | 48000 | 68200  | 8    | 5    | 5    |                                                                                                      |
|                                  | 60 x 60 x 12             | 8" x 8"    | 58000 | 82500  | 10   | 5    | 5    |                                                                                                      |
|                                  | 66 x 66 x 12             | 8" x 8"    | 65000 | 90500  | 12   | 6    | 5    |                                                                                                      |
|                                  | 72 x 72 x 14             | 8" x 8"    | 82500 | 118000 |      | 9    | 6    |                                                                                                      |
|                                  | 78 x 78 x 14             | 8" x 8"    | 94000 | 130500 |      | 11   | 7    |                                                                                                      |

**NOTE** COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam





## LTS P ENGINEERED - 2"x2" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |       |      |      |     |     |     |
|--------|-------------------------|-------|-------|-------|-------|------|------|-----|-----|-----|
|        | LTS P                   |       |       |       |       |      |      |     |     |     |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6" | 10'  | 12' | 14' | 16' |
|        | WSD                     | 10900 | 9775  | 9000  | 8300  | 6500 | 5700 |     |     |     |
|        | LSD                     | 15330 | 13600 | 12840 | 11900 | 9200 | 8000 |     |     |     |

| PLATE                                                     | PLATE CAPACITIES (lbs) |            |           |       |       |       |       |          |       |       |
|-----------------------------------------------------------|------------------------|------------|-----------|-------|-------|-------|-------|----------|-------|-------|
| OPTION OF 4X7 PLATE<br>FOR FULL USE OF<br>COLUMN CAPACITY | Plate Size (in)        |            | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | DM (psi) | 4.5"  | 6.0"  |
|                                                           | WSD                    | 3.5 x 5.25 | 769       | 14100 | 14100 |       |       | 436      | 6900  |       |
|                                                           | LSD                    |            | 1080      | 19900 | 19900 |       |       | 615      | 9700  |       |
|                                                           | WSD                    | 4.5 x 6    | 769       | 16200 | 18200 |       |       | 436      | 11800 | 11800 |
|                                                           | LSD                    |            | 1080      | 22800 | 25700 |       |       | 615      | 16600 | 16600 |
|                                                           | WSD                    | 4 x 7      | 769       | 18800 | 16500 | 21000 |       | 436      | 6900  | 9200  |
|                                                           | LSD                    |            | 1080      | 26500 | 22200 | 30000 |       | 615      | 9700  | 14800 |

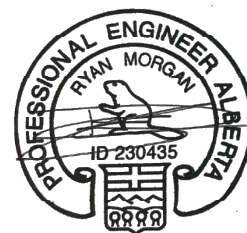
| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED – SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 24 x 24 x 9              | 3/8        | 8000  | 11400 | 3    | 3    |      |                                                                                                      |
|                                  | 30 x 30 x 9              | 3/8        | 10000 | 14200 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | 3/8        | 14000 | 19900 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | 3/8        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 24 x 24 x 9              | 3/8        | 10000 | 14200 | 3    | 3    | 3    |                                                                                                      |
|                                  | 30 x 30 x 9              | 3/8        | 14000 | 19900 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | 3/8        | 16000 | 22700 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | 3/8        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |

**NOTE** COLUMNS NEED MINIMUM EMBEDMENT OF 3" INTO CONCRETE SLAB

COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1 Measure the distance between bottom of beam and top of footing
- Step 2 Remove both plates from screw assembly by removing the nut
- Step 3 Replace nut on the rod until it reaches the pressed threads
- Step 4 Extend screw to its midpoint for future adjustment
- Step 5 Take measurement of complete column including top and base plates
- Step 6 Take measurement from step # 1 and subtract from step # 5
- Step 7 Cut off difference from bottom of column and be sure cut is true
- Step 8 Choose plate to cover full width of beam
- Step 9 Place plate on top of nut with rod inserted in the center of the hole
- Step 10 Place other plate under column and center
- Step 11 Center column on footing and beam and affix both
- Step 12 Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13 Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14 Be sure column is in a completely vertical position to support beam



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 Patent Can 2,507,332



## LTS P ENGINEERED - 2"x2" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES (lbs) |       |       |       |      |      |      |     |     |     |
|--------|-------------------------|-------|-------|-------|------|------|------|-----|-----|-----|
|        | LTS P                   |       |       |       |      |      |      |     |     |     |
|        | HEIGHT                  | 7'6"  | 8'0"  | 8'6"  | 9'0" | 9'6" | 10'  | 12' | 14' | 16' |
|        | WSD                     | 8600  | 7850  | 7200  | 6600 | 5800 | 4900 |     |     |     |
|        | LSD                     | 12600 | 11500 | 10500 | 9600 | 8200 | 7000 |     |     |     |

| PLATE                                                     | PLATE CAPACITIES (lbs) |            |           |       |       |       |       |          |       |       |
|-----------------------------------------------------------|------------------------|------------|-----------|-------|-------|-------|-------|----------|-------|-------|
| OPTION OF 4X7 PLATE<br>FOR FULL USE OF<br>COLUMN CAPACITY | Plate Size (in)        |            | LVL (psi) | 3.5"  | 5.25" | 7.0"  | 8.75" | DM (psi) | 4.5"  | 6.0"  |
|                                                           | WSD                    | 3.5 x 5.25 | 769       | 14100 | 14100 |       |       | 436      | 6900  |       |
|                                                           | LSD                    |            | 1080      | 19900 | 19900 |       |       | 615      | 9700  |       |
|                                                           | WSD                    | 4.5 x 6    | 769       | 16200 | 18200 |       |       | 436      | 11800 | 11800 |
|                                                           | LSD                    |            | 1080      | 22800 | 25700 |       |       | 615      | 16600 | 16600 |
|                                                           | WSD                    | 4 x 7      | 769       | 18800 | 16500 | 21000 |       | 436      | 6900  | 9200  |
|                                                           | LSD                    |            | 1080      | 26500 | 22200 | 30000 |       | 615      | 9700  | 14800 |

| FOOTING                          | FOOTING CAPACITIES (lbs) |            |       |       |      |      |      | REINFORCING EVENLY SPACED<br>EITHER WAY AND TIED – SEE FULL<br>FOOTING CHART FOR MORE<br>INSTRUCTION |
|----------------------------------|--------------------------|------------|-------|-------|------|------|------|------------------------------------------------------------------------------------------------------|
| Soil Bearing Capacity            | FOOTING SIZE (in)        | PLATE (in) | WSD   | LSD   | 10MM | 15MM | 20MM |                                                                                                      |
| WSD – 2000 psf<br>LSD – 2800 psf | 24 x 24 x 9              | 3/8        | 8000  | 11400 | 3    | 3    |      |                                                                                                      |
|                                  | 30 x 30 x 9              | 3/8        | 10000 | 14200 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | 3/8        | 14000 | 19900 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | 3/8        | 20000 | 28400 | 6    | 4    | 4    |                                                                                                      |
| WSD – 2500 psf<br>LSD – 3500 psf | 24 x 24 x 9              | 3/8        | 10000 | 14200 | 3    | 3    | 3    |                                                                                                      |
|                                  | 30 x 30 x 9              | 3/8        | 14000 | 19900 | 4    | 3    | 3    |                                                                                                      |
|                                  | 36 x 36 x 10             | 3/8        | 16000 | 22700 | 5    | 3    | 3    |                                                                                                      |
|                                  | 42 x 42 x 10             | 3/8        | 28000 | 39800 | 6    | 4    | 4    |                                                                                                      |

**NOTE** COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 1 and subtract from step # 5
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- Step 8** Choose plate to cover full width of beam
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- Step 10** Place other plate under column and center
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Cast into concrete floor or weld column to base plate and anchor with 2 holes-3/8"Ø A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam





## LTS P-A 2"x2"x0.125" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES |       |       |       |       |       |       |     |     |     |
|--------|-------------------|-------|-------|-------|-------|-------|-------|-----|-----|-----|
|        | LTS P             |       |       |       |       |       |       |     |     |     |
|        | HEIGHT            | 7'6"  | 8'0"  | 8'6"  | 9'0"  | 9'6"  | 10'   | 12' | 14' | 16' |
|        | WSD               | 11550 | 10550 | 9670  | 9120  | 8570  | 7920  |     |     |     |
|        | LSD               | 16820 | 15400 | 14110 | 13310 | 12500 | 11540 |     |     |     |

| PLATE                                               | PLATE CAPACITIES |            |          |       |       |       |       |         |       |       |
|-----------------------------------------------------|------------------|------------|----------|-------|-------|-------|-------|---------|-------|-------|
| OPTION OF 4X7 PLATE FOR FULL USE OF COLUMN CAPACITY |                  |            | BEAM     | 3.5"  | 5.25" | 7.0"  | 8.75" | BEAM    | 4.5"  | 6.0"  |
|                                                     | WSD              | 3.5 x 5.25 | 769 psi  | 14100 | 14100 |       |       | 436 psi | 6900  |       |
|                                                     | LSD              |            | 1080 psi | 19900 | 19900 |       |       | 615 psi | 9700  |       |
|                                                     | WSD              | 4.5 x 6    | 769 psi  | 16200 | 18200 |       |       | 436 psi | 11800 | 11800 |
|                                                     | LSD              |            | 1080 psi | 22800 | 25700 |       |       | 615 psi | 16600 | 16600 |
|                                                     | WSD              | 4 x 7      | 769 psi  | 18800 | 14100 | 18800 |       | 436 psi | 6900  | 9200  |
|                                                     | LSD              |            | 1080 psi | 26500 | 19900 | 26500 |       | 615 psi | 9700  | 14800 |

| FOOTING | FOOTING CAPACITIES |              |       |       |       |      |      |      | TIED - SEE FULL FOOTING CHART FOR MORE REINFORCING EVENLY |
|---------|--------------------|--------------|-------|-------|-------|------|------|------|-----------------------------------------------------------|
|         | PSF                | FOOTING SIZE | PLATE | WSD   | LSD   | 10MM | 15MM | 20MM |                                                           |
|         | 2000               | 24 x 24 x 9  | 3/8   | 8000  | 11400 | 3    | 3    |      |                                                           |
|         | 2000               | 30 x 30 x 9  | 3/8   | 10000 | 14200 | 4    | 3    | 3    |                                                           |
|         | 2000               | 30 x 30 x 9  | 3/8   | 12000 | 17000 | 4    | 3    | 3    |                                                           |
|         | 2000               | 36 x 36 x 10 | 3/8   | 14000 | 19900 | 5    | 3    | 3    |                                                           |
|         | 2000               | 36 x 36 x 10 | 3/8   | 16000 | 22700 | 5    | 3    | 3    |                                                           |
|         | 2500               | 24 x 24 x 9  | 3/8   | 8000  | 11400 | 3    | 3    |      |                                                           |
|         | 2500               | 24 x 24 x 9  | 3/8   | 10000 | 14200 | 3    | 3    | 3    |                                                           |
|         | 2500               | 30 x 30 x 9  | 3/8   | 12000 | 17000 | 4    | 3    | 3    |                                                           |
|         | 2500               | 30 x 30 x 9  | 3/8   | 14000 | 19900 | 4    | 3    | 3    |                                                           |
|         | 2500               | 36 x 36 x 10 | 3/8   | 16000 | 22700 | 5    | 3    | 3    |                                                           |

### NOTE

COLUMNS NEED MINIMUM EMBEDMENT OF 3" INTO CONCRETE SLAB

COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

### INSTALL

- Step 1** Measure the distance between bottom of beam and top of footing
- Step 2** Remove both plates from screw assembly by removing the nut
- Step 3** Replace nut on the rod until it reaches the pressed threads
- Step 4** Extend screw to its midpoint for future adjustment
- Step 5** Take measurement of complete column including top and base plates
- Step 6** Take measurement from step # 2 and subtract from step # 6
- Step 7** Cut off difference from bottom of column and be sure cut is true
- Step 8** Choose plate to cover full width of beam
- Step 9** Place plate on top of nut with rod inserted in the center of the hole
- Step 10** Place other plate under column using centering ring
- Step 11** Center column on footing and beam and affix both
- Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
- Step 13** Weld column to base plate and anchor with 4-3/8" A. bolts set in epoxy
- Step 14** Be sure column is in a completely vertical position to support beam



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## LTS P-A 2"x2"x0.125" (50 ksi)

JULY 2026

| COLUMN | COLUMN CAPACITIES |       |       |       |      |      |      |     |     |     |
|--------|-------------------|-------|-------|-------|------|------|------|-----|-----|-----|
|        | LTS P             |       |       |       |      |      |      |     |     |     |
|        | HEIGHT            | 7'6"  | 8'0"  | 8'6"  | 9'0" | 9'6" | 10'  | 12' | 14' | 16' |
|        | WSD               | 9400  | 8500  | 7700  | 7000 | 6400 | 5800 |     |     |     |
|        | LSD               | 13300 | 12100 | 10900 | 9900 | 9000 | 8200 |     |     |     |

| PLATE                                                     | PLATE CAPACITIES |            |          |       |       |       |       |         |       |       |
|-----------------------------------------------------------|------------------|------------|----------|-------|-------|-------|-------|---------|-------|-------|
| OPTION OF 4X7 PLATE<br>FOR FULL USE OF<br>COLUMN CAPACITY |                  |            | BEAM     | 3.5"  | 5.25" | 7.0"  | 8.75" | BEAM    | 4.5"  | 6.0"  |
|                                                           | WSD              | 3.5 x 5.25 | 769 psi  | 14100 | 14100 |       |       | 436 psi | 6900  |       |
|                                                           | LSD              |            | 1080 psi | 19900 | 19900 |       |       | 615 psi | 9700  |       |
|                                                           | WSD              | 4.5 x 6    | 769 psi  | 16200 | 18200 |       |       | 436 psi | 11800 | 11800 |
|                                                           | LSD              |            | 1080 psi | 22800 | 25700 |       |       | 615 psi | 16600 | 16600 |
|                                                           | WSD              | 4 x 7      | 769 psi  | 18800 | 14100 | 18800 |       | 436 psi | 6900  | 9200  |
|                                                           | LSD              |            | 1080 psi | 26500 | 19900 | 26500 |       | 615 psi | 9700  | 14800 |

| FOOTING | FOOTING CAPACITIES |              |       |       |       |      |      |      |  | TIED - SEE FULL FOOTING<br>CHART FOR MORE | REINFORCING EVENLY |
|---------|--------------------|--------------|-------|-------|-------|------|------|------|--|-------------------------------------------|--------------------|
|         | PSF                | FOOTING SIZE | PLATE | WSD   | LSD   | 10MM | 15MM | 20MM |  |                                           |                    |
|         | 2000               | 24 x 24 x 9  | 3/8   | 8000  | 11400 | 3    | 3    |      |  |                                           |                    |
|         | 2000               | 30 x 30 x 9  | 3/8   | 10000 | 14200 | 4    | 3    | 3    |  |                                           |                    |
|         | 2000               | 30 x 30 x 9  | 3/8   | 12000 | 17000 | 4    | 3    | 3    |  |                                           |                    |
|         | 2000               | 36 x 36 x 10 | 3/8   | 14000 | 19900 | 5    | 3    | 3    |  |                                           |                    |
|         | 2000               | 36 x 36 x 10 | 3/8   | 16000 | 22700 | 5    | 3    | 3    |  |                                           |                    |
|         | 2500               | 24 x 24 x 9  | 3/8   | 8000  | 11400 | 3    | 3    |      |  |                                           |                    |
|         | 2500               | 24 x 24 x 9  | 3/8   | 10000 | 14200 | 3    | 3    | 3    |  |                                           |                    |
|         | 2500               | 30 x 30 x 9  | 3/8   | 12000 | 17000 | 4    | 3    | 3    |  |                                           |                    |
|         | 2500               | 30 x 30 x 9  | 3/8   | 14000 | 19900 | 4    | 3    | 3    |  |                                           |                    |
|         | 2500               | 36 x 36 x 10 | 3/8   | 16000 | 22700 | 5    | 3    | 3    |  |                                           |                    |

**NOTE** COLUMNS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NBC AND ABC PARTS 4 AND 9  
 THE DESIGN WAS COMPLETED IN ACCORDANCE WITH CAN/CSA S16:24

- INSTALL**
- Step 1** Measure the distance between bottom of beam and top of footing
  - Step 2** Remove both plates from screw assembly by removing the nut
  - Step 3** Replace nut on the rod until it reaches the pressed threads
  - Step 4** Extend screw to its midpoint for future adjustment
  - Step 5** Take measurement of complete column including top and base plates
  - Step 6** Take measurement from step # 2 and subtract from step # 6
  - Step 7** Cut off difference from bottom of column and be sure cut is true
  - Step 8** Choose plate to cover full width of beam
  - Step 9** Place plate on top of nut with rod inserted in the center of the hole
  - Step 10** Place other plate under column using centering ring
  - Step 11** Center column on footing and beam and affix both
  - Step 12** Using holes, affix top plate to beam with 1/4" lags, predrill if necessary
  - Step 13** Weld column to base plate and anchor with 4-3/8" A bolts set in epoxy
  - Step 14** Be sure column is in a completely vertical position to support beam



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