



ST Foundation Anchors

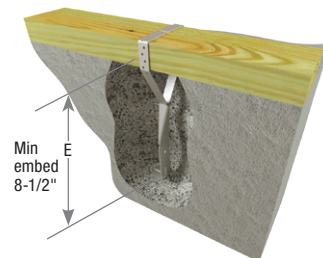
ST1-TZ – For installation into concrete slab or poured stemwalls. The ST1-TZ features a prebent base flange to assure proper anchoring into concrete.

ST2-TZ – For installation into concrete slab, poured stemwalls or concrete/masonry. The ST2-TZ features a prebent base flange to assure proper anchoring into concrete. Do not use in red clay brick.

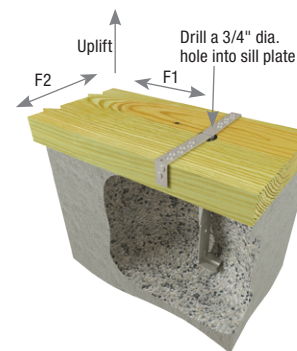
Materials: 18 gauge
Finish: G-185 galvanizing

Installation:

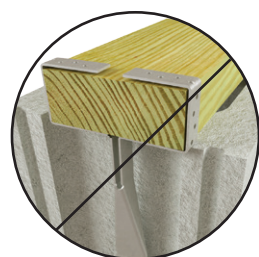
- Use all specified fasteners.
- Use a minimum of two anchors per mudsill. An anchor should always be within 12" of the end of each mudsill section.
- Space ST anchors at 4' (1.2m) to meet code prescribed 1/2" anchor bolt with standard washer spaced at 7'- 10" (2.4m).
- Do not rely on these anchors to secure concrete sections together between cold joints.
- Spread sill flanges to mudsill width prior to insertion into wet concrete (minimum strength of 2,500 psi). Alternate installation is possible by inserting unbent flanges through 3/4" center hole predrilled in mudsill. Foundation anchors may also be attached to mudsill and then inserted into wet concrete. When installing ST2-TZ into concrete block, fill cells with grout with a minimum strength of 2,500 psi. Concrete block edges may need to be beveled to facilitate installation.
- For additional installation details and information on mudsill anchors refer to **ST** Foundation Anchors Technical Bulletin.
- **ST2-TZ** in masonry construction shall be installed in the core of the block and grouted with concrete grout designed for that purpose. In no case, shall they be installed in a mortar joint.



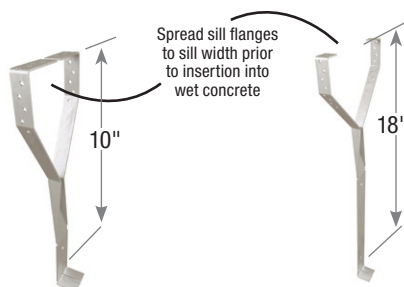
Typical ST1-TZ installation in concrete



Alternate ST1-TZ installation with 3/4" center hole

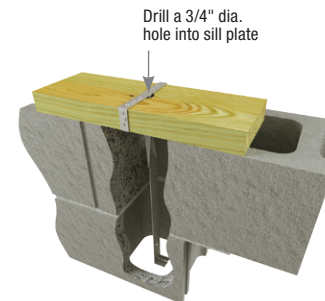


DO NOT install ST1-TZ and ST2-TZ without pre-bending sill flanges in "Y" configuration



ST1-TZ

ST2-TZ



Alternate ST2-TZ installation with 3/4" center hole in mudsill



Dec. 11, 2017

| Plate Size | MiTek Stock No. | Fastener Schedule ² | | | | Min. Embed (E) (in) | Factored Resistance ¹ | | | | | | |
|------------|-----------------|--------------------------------|----------------|--------------|----------------|---------------------|----------------------------------|--------|------|------|--------|------|------|
| | | Mudsill Top | | Mudsill Side | | | Unit | DF-L | | | S-P-F | | |
| | | Qty | Type | Qty | Type | | | Uplift | F1 | F2 | Uplift | F1 | F2 |
| 2 x 4 - 6 | ST1-TZ | 4 | 8d x 1-1/2 HDG | 4 | 8d x 1-1/2 HDG | 8-1/2 | Lbs | 1000 | 680 | 1005 | 855 | 585 | 860 |
| | | | | | | | kN | 4.45 | 3.02 | 4.47 | 3.80 | 2.60 | 3.83 |
| | ST2-TZ | 4 | 8d x 1-1/2 HDG | 4 | 8d x 1-1/2 HDG | | Lbs | 1000 | 680 | 1005 | 855 | 585 | 860 |
| | | | | | | | kN | 4.45 | 3.02 | 4.47 | 3.80 | 2.60 | 3.83 |

1) Short term load duration has been taken into consideration. No increase allowed.
 2) **NAILS:** 8d x 1-1/2 nails are 0.131" diameter by 1-1/2" long.

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

Valid through Dec. 31, 2019



MiTek supplies quality products to build Stronger Safer Structures

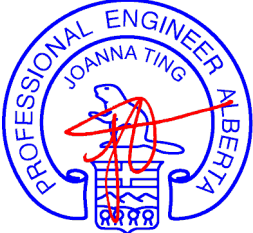
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ST Foundation Anchors

APEGA
Permit No. P3837



Dec. 11, 2017

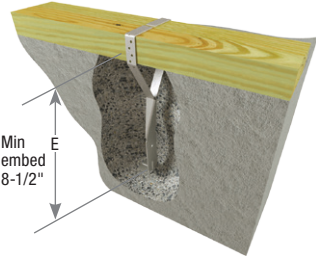
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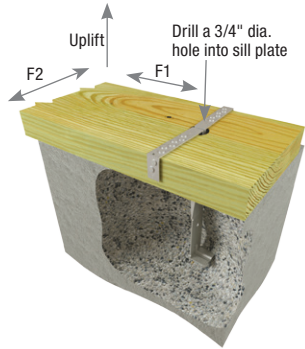
Materials: 18 gauge
Finish: G-185 galvanizing

Installation:

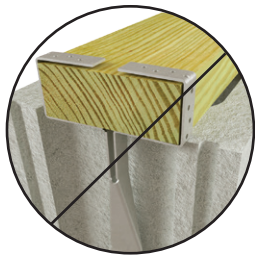
- Use all specified fasteners.
- Use a minimum of two anchors per mudsill. An anchor should always be within 12" of the end of each mudsill section.
- Space ST anchors at 4' (1.2m) to meet code prescribed 1/2" anchor bolt with standard washer spaced at 7'- 10" (2.4m).
- Do not rely on these anchors to secure concrete sections together between cold joints.
- Spread sill flanges to mudsill width prior to insertion into wet concrete (minimum strength of 2,500 psi). Alternate installation is possible by inserting unbent flanges through 3/4" center hole predrilled in mudsill. Foundation anchors may also be attached to mudsill and then inserted into wet concrete. When installing ST2-TZ into concrete block, fill cells with grout with a minimum strength of 2,500 psi. Concrete block edges may need to be beveled to facilitate installation.
- For additional installation details and information on mudsill anchors refer to **ST** Foundation Anchors Technical Bulletin.
- **ST2-TZ** in masonry construction shall be installed in the core of the block and grouted with concrete grout designed for that purpose. In no case, shall they be installed in a mortar joint.



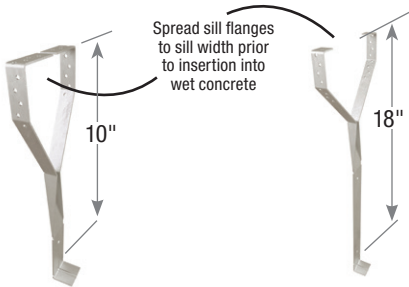
Typical ST1-TZ installation in concrete



Alternate ST1-TZ installation with 3/4" center hole

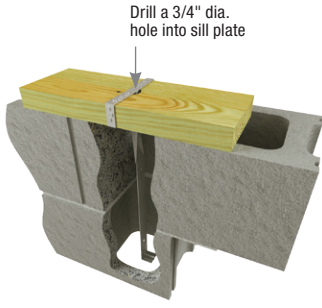


DO NOT install ST1-TZ and ST2-TZ without pre-bending sill flanges in "Y" configuration



ST1-TZ

ST2-TZ



Alternate ST2-TZ installation with 3/4" center hole in mudsill

APEGM
Certificate No. 96



Dec. 11, 2017

APEGS
Certificate No. C0940



Dec. 11, 2017
YR. MN. DAY

| Plate Size | MiTek Stock No. | Fastener Schedule ² | | | | Min. Embed (E) (in) | Factored Resistance ¹ | | | | | | |
|------------|-----------------|--------------------------------|----------------|--------------|----------------|---------------------|----------------------------------|--------|-----|------|--------|-----|-----|
| | | Mudsill Top | | Mudsill Side | | | Unit | DF-L | | | S-P-F | | |
| | | Qty | Type | Qty | Type | | | Uplift | F1 | F2 | Uplift | F1 | F2 |
| 2 x 4 - 6 | ST1-TZ | 4 | 8d x 1-1/2 HDG | 4 | 8d x 1-1/2 HDG | 8-1/2 | Lbs | 1000 | 680 | 1005 | 855 | 585 | 860 |
| | kN | 4.45 | 3.02 | 4.47 | 3.80 | | 2.60 | 3.83 | | | | | |
| 2 x 4 - 6 | ST2-TZ | 4 | 8d x 1-1/2 HDG | 4 | 8d x 1-1/2 HDG | 16-1/2 | Lbs | 1000 | 680 | 1005 | 855 | 585 | 860 |
| | kN | 4.45 | 3.02 | 4.47 | 3.80 | | 2.60 | 3.83 | | | | | |

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ST Foundation Anchors

APENS
Permit No. 15800 0

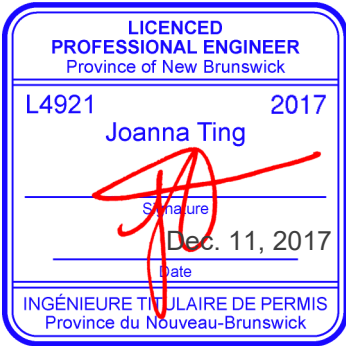


Dec. 11, 2017

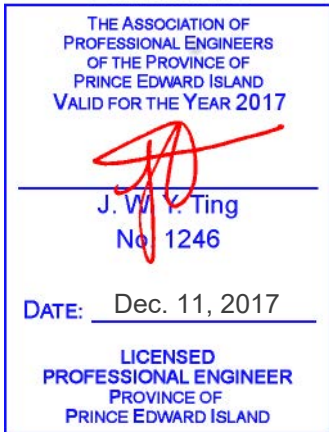
PEG
Permit No. D0027



APEGNB
Certificate No. F0649



APEPEI
Permit No. A195



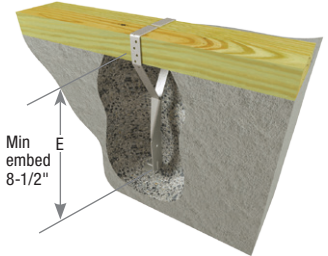
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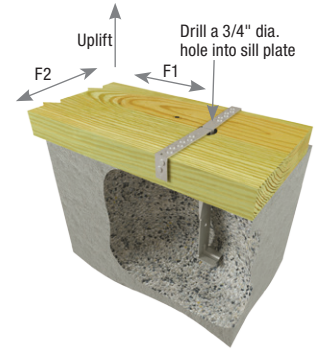
Materials: 18 gauge
Finish: G-185 galvanizing

Installation:

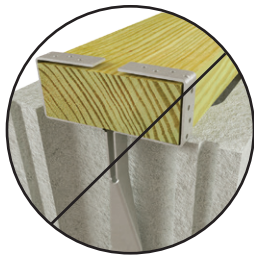
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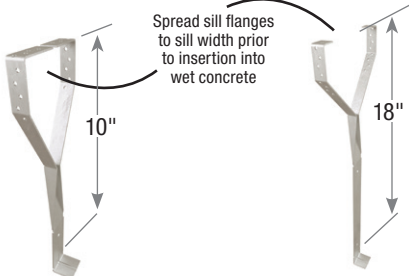
Typical ST1-TZ installation in concrete



Alternate ST1-TZ installation with 3/4" center hole

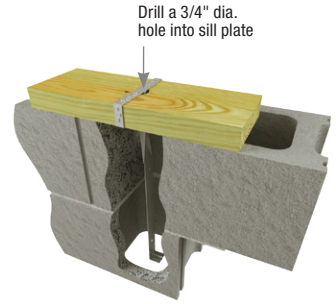


DO NOT install ST1-TZ and ST2-TZ without pre-bending sill flanges in "Y" configuration



ST1-TZ

ST2-TZ



Alternate ST2-TZ installation with 3/4" center hole in mudsill

| Plate Size | MiTek Stock No. | Fastener Schedule ² | | | | Min. Embed (E) (in) | Factored Resistance ¹ | | | | | | |
|------------|-----------------|--------------------------------|----------------|--------------|----------------|---------------------|----------------------------------|--------|------|------|--------|------|------|
| | | Mudsill Top | | Mudsill Side | | | Unit | DF-L | | | S-P-F | | |
| | | Qty | Type | Qty | Type | | | Uplift | F1 | F2 | Uplift | F1 | F2 |
| 2 x 4 - 6 | ST1-TZ | 4 | 8d x 1-1/2 HDG | 4 | 8d x 1-1/2 HDG | 8-1/2 | Lbs | 1000 | 680 | 1005 | 855 | 585 | 860 |
| | | | | | | | kN | 4.45 | 3.02 | 4.47 | 3.80 | 2.60 | 3.83 |
| | ST2-TZ | 4 | 8d x 1-1/2 HDG | 4 | 8d x 1-1/2 HDG | 16-1/2 | Lbs | 1000 | 680 | 1005 | 855 | 585 | 860 |
| | | | | | | | kN | 4.45 | 3.02 | 4.47 | 3.80 | 2.60 | 3.83 |

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