

Foundation Wall Anchor FWAN-TZ

FWAN-TZ Foundation Wall Anchor is designed to transfer in-plane and out-of-plane foundation wall loads imposed by soil through the joist/blocking into the floor diaphragm. The unique design allows for installations that straddle the joist/blocking eliminating bending stresses in the rim board that result from offset installations.

The FWAN-TZ offers two methods of installation:

1. Centered Installation

- Compatible with joist/blocking up to 3-1/2" wide
- Highest load capacities for transfer of out-of-plane loads into floor framing
- Rim board splices allowed anywhere along the wall

2. Offset Installation

- Installs in the space between the joists/blocking
- Out-of-plane loads are transferred thru the rim board into the floor framing
- Offsets up to 4"

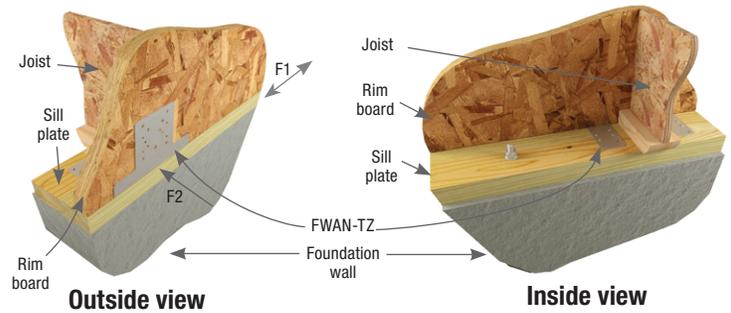
Features:

- Optional nailing when using 2x6 or larger sill plate for increased load carrying capacity
- Typical installation that straddles the joist/blocking allows for rim board splices anywhere along the wall

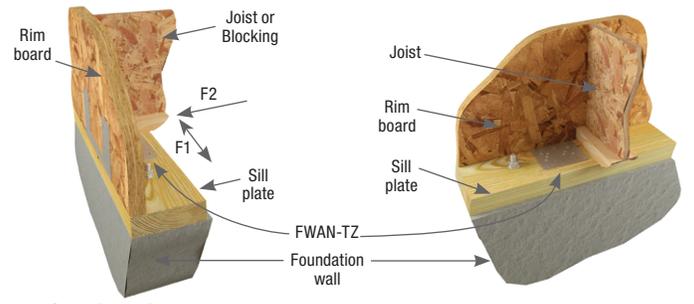
Materials: 16 gauge
Finish: G-185 galvanizing
Codes: IBC, FL, LA

Installation:

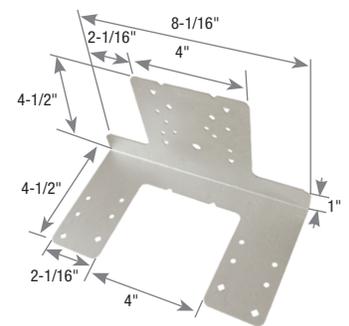
- **Centered Installation** - Fill only triangle holes when nailing to the rim board.
- **Offset Installation** - Fill only diamond holes when nailing to the rim board.
- FWAN-TZ must be installed tight to the outside face of the rim board.
- Minimum sill plate thickness is 1-1/2".
- Offset Installations require that the FWAN-TZ be installed within 4" of the joist/blocking.
- For Offset Installations, install with two narrow tabs against rim board. Splices in the rim board are not permitted in the space between the joist/blocking where the FWAN-TZ is installed.
- The designer must specify the anchor bolt size, spacing and embedment necessary to transfer the foundation loads into the sill plate. Stresses in the sill plate must be considered when determining the maximum spacing of the anchor bolts.



Centered Installation
 Typical FWAN-TZ centered on joist/blocking



Offset Installation
 Typical FWAN-TZ offset max 4" from joist/blocking



FWAN-TZ

MiTek Stock No.	Ref. No.	Sill Plate	Fastener Schedule ⁶				Rim Board Material	DF/SP Allowable Load (Lbs.) ^{1,2}						Hem-Fir Allowable Load (Lbs.) ^{1,2}					
			Sill Plate		Rim Board			F1 ^{3,4}			F2 ^{3,4}			F1 ^{3,4}			F2 ^{3,4}		
			Qty	Type	Qty	Type		90%	100%	160%	90%	100%	160%	90%	100%	160%	90%	100%	160%
FWAN-TZ	FWANZ	2x4, 2-2x4, 3x4, 4x4	8	10d x 1-1/2 HDG	4	10d x 1-1/2 HDG	Centered on Joist/Blocking												
							1-1/8" OSB	415	415	415	915	1000	1070	330	330	330	800	855	855
							2x Rim	455	500	525	915	1000	1385	420	420	420	800	870	1110
							1-3/4" LVL	455	500	525	915	1000	1385	420	420	420	800	870	1110
							1-1/8" OSB	415	415	415	1370	1500	1475	330	330	330	1180	1180	1180
							2x Rim	455	500	525	1370	1500	1660	420	420	420	1200	1310	1330
		1-3/4" LVL	455	500	525	1370	1500	1660	420	420	420	1200	1310	1330					
		Offset from Joist Blocking (Max Offset 4")																	
		2x4, 2-2x4, 3x4, 4x4	8	10d x 1-1/2 HDG	4	10d x 1-1/2 HDG	1-1/8" OSB	415	415	415	525	525	525	330	330	330	420	420	420
		2x Rim	455	500	525	915	995	995	420	420	420	795	795	795					
		1-3/4" LVL	455	500	525	915	995	995	420	420	420	795	795	795					
		2x6, 2-2x6, 3x6, 4x6	12	10d x 1-1/2 HDG	4	10d x 1-1/2 HDG	1-1/8" OSB	415	415	415	525	525	525	330	330	330	420	420	420
2x Rim	455	500	525	995	995	995	420	420	420	795	795	795							
1-3/4" LVL	455	500	525	995	995	995	420	420	420	795	795	795							

1) Allowable loads have been reduced 10% for permanent sustained loads, no further reduction is required.
 2) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 3) F1 loads are parallel to the sill plate.
 4) F2 loads are perpendicular to the sill plate.
 5) The designer must specify the type, size and spacing of fasteners connecting the sill plate to the foundation wall.
 6) **NAILS:** 10d x 1-1/2" nails are 0.148" dia. x 1-1/2" long.