## MiTek **USP**<sup>°</sup> Structural Connectors

# **Foundation Wall Anchor** FWAN-TZ

Jois

Rim

board

Rim

board

**Outside view** 

**Outside view** 

Sill plate .loist

Rim board

> Sill plate

FWAN-T7

Foundation

wall

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

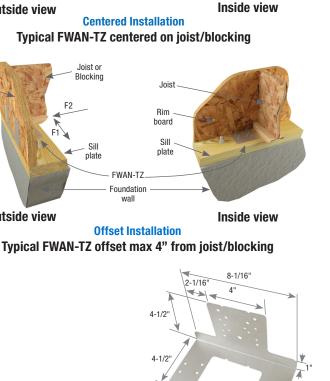
Materials: 16 gauge Finish: G-185 galvanizing Codes: ICC-ES ESR-3455, FL 17244, COLA RR 25745

#### 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.

	Ref.	Sill		Fastener	Sche	edule <sup>6</sup>	Rim	DF/SP Allowable Load (Lbs.) <sup>1,2</sup>						Hem-Fir Allowable Load (Lbs.) <sup>1,2</sup>						
USP				Sill Plate	Rim Board		Board	F1 <sup>3,4</sup>			F2 <sup>3,4</sup>			F1 <sup>3,4</sup>			F2 <sup>3,4</sup>			
Stock No.	No.	Plate	Qty	Туре	Qty	Туре	Material	90%	100%	160%	90%	100%	160%	90%	100%	160%	90%	100%	160%	1) Allowable loads have been reduced 10% for permanent
	FWANZ	Centered on Joist/Blocking														sustained loads, no further				
FWAN-TZ		2x4,	, 8	10d x 1-1/2	4	10d x 1-1/2	1-1/8" OSB	455	465	465	915	1000	1200	410	410	410	800	870	1055	= 3) I I IUaus ale paraller lu llie
		2-2x4,					2x Rim	455	500	585	915	1000	1480	455	500	515	800	870	1300	
		3x4, 4x4					1-3/4" LVL	455	500	585	915	1000	1480	455	500	515	800	870	1300	
		2x6,			2 4	10d x 1-1/2	1-1/8" OSB	455	465	465	1370	1500	1610	410	410	410	1200	1310	1415	
		2-2x6,	12	2 10d x 1-1/2			2x Rim	455	500	585	1370	1500	1825	455	500	515	1200	1310	1605	
		3x6, 4x6					1-3/4" LVL	455	500	585	1370	1500	1825	455	500	515	1200	1310	1605	
		Offset from Joist Blocking (Max Offset 4")														4) F2 loads are perpendicular				
		2x4,				4 10d x 1-1/2	1-1/8" OSB	455	460	460	560	560	560	410	410	410	500	500	500	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) <b>NAILS:</b> 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long.
		2-2x4,	8	10d x 1-1/2	4		2x Rim	455	500	580	915	1000	1090	455	500	515	800	870	965	
		3x4, 4x4					1-3/4" LVL	455	500	580	915	1000	1090	455	500	515	800	870	965	
		2x6,	, 12	10d x 1-1/2	4	10d x 1-1/2	1-1/8" OSB	455	460	460	560	560	560	410	410	410	500	500	500	
		2-2x6,					2x Rim	455	500	580	1090	1090	1090	455	500	515	965	965	965	
		3x6, 4x6					1-3/4" LVL	455	500	580	1090	1090	1090	455	500	515	965	965	965	







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