



STATE OF NEW MEXICO
REGULATION AND LICENSING DEPARTMENT
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Gary E. Johnson
 GOVERNOR

Robin Dozier Otten
 SUPERINTENDENT

July 8, 1998

Boone M. Smith
 5901 Wheaton Drive
 Atlanta, Georgia 30336

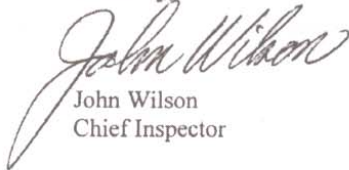
To Whom It May Concern:

Please be advised that the State of New Mexico Manufactured Housing Division has received and reviewed your request for our office to approve "TIE DOWN ENGINEERING, INC." to be used in our State as a foundation system for Manufactured (Mobile) homes.

Based on that review, our office approves "TIE DOWN ENGINEERING, INC." as an alternative method of installing manufactured homes on permanent foundations on secondary sets where no home installation instruction is available. All new homes to be installed on permanent foundations must be approved by the manufacturer's DAPIA. This approval is based upon the engineering analysis performed on this product and must be installed according to the manufacturer's listed instructions. Any State Regulation required by the Division in the installation of a manufactured home not covered by "TIE DOWN ENGINEERING, INC." installation Instruction, the State Regulation will apply.

If you have any questions regarding the above approval, please feel free to contact me at (505) 827-7070.

Sincerely,



John Wilson
 Chief Inspector

Cc file

Administrative Services 827-7003 F) 827-7083 Deputy Superintendent Director Gene V. Henley	Construction Industries 827-7030 F) 827-7045 Assistant Superintendent Director Anita Lockwood	Manufactured Housing 827-7070 F) 827-7074 Director Robert M. Unthank	Alcohol and Gaming 827-7066 F) 827-7168	Financial Institutions 827-7100 F) 827-7107 Director William J. Verant	Securities 827-7140 F) 984-0617 1(800) 704-5533 Acting Director William J. Verant
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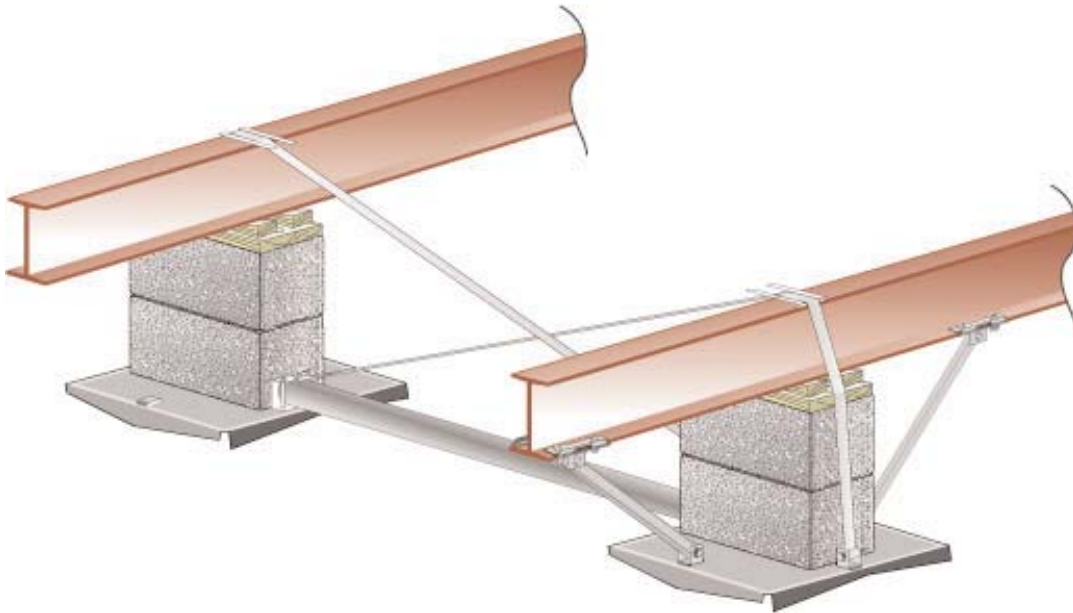
Xi Foundation System

Installation Instructions for Wind Zone 1
By Tie Down Engineering

24-5932
24-4862
24-5930
24-5931

Xi System with 6' **Lateral Strut**
Lateral Strut
Pad Assembly
Lateral Hardware Kit

- Easy installaion
- Stabilizer plates and diagonal frame ties are not required in most set-ups
- 3 square foot pad with concrete blocks replaces a standard footer & blocks
- Longitudinal stabilization is easily added with Tie Down's LSD strut kit
- Heavy galvanized coating on pad and struts



REQUIREMENTS

- Install in any type of soil, 4B or better
- Maximum projection at sidewall is 96". Higher walls may be used when the design loads are adjusted accordingly.
- Maximum roof eave is 16" or less
- Additional vertical anchor ties that are unique to a home's design may be required by the home plates. The longitudinal componet of the Xi system replaces end frame ties.
- Maximum pier height is 48" with concrete block pier. Contact Tie Down if piers exceed these heights; further engineering analysis may be required.
- Installation instructions are based on 5400# per pad lateral load with a concrete block pier. Longitudinal load is 4,000 lbs.
- Edge of Xi steel pad must be within 2 feet from the end of the home
- Additional vertical anchor ties that are unique to a home's design may be required by the home manufacturer. These locations include shear walls, marriage line ridge beam support postsm and rim plates.

TIE DOWN ENGINEERING

5901 Wheaton Drive

Atlanta GA, 30336

www.tiedown.com

(404) 344-0000

FAX (404) 349-0401



Prices And Specifications Are Subject To Change Without Notice.

Set-Up Instructions for the Vector Synamics Foundation System

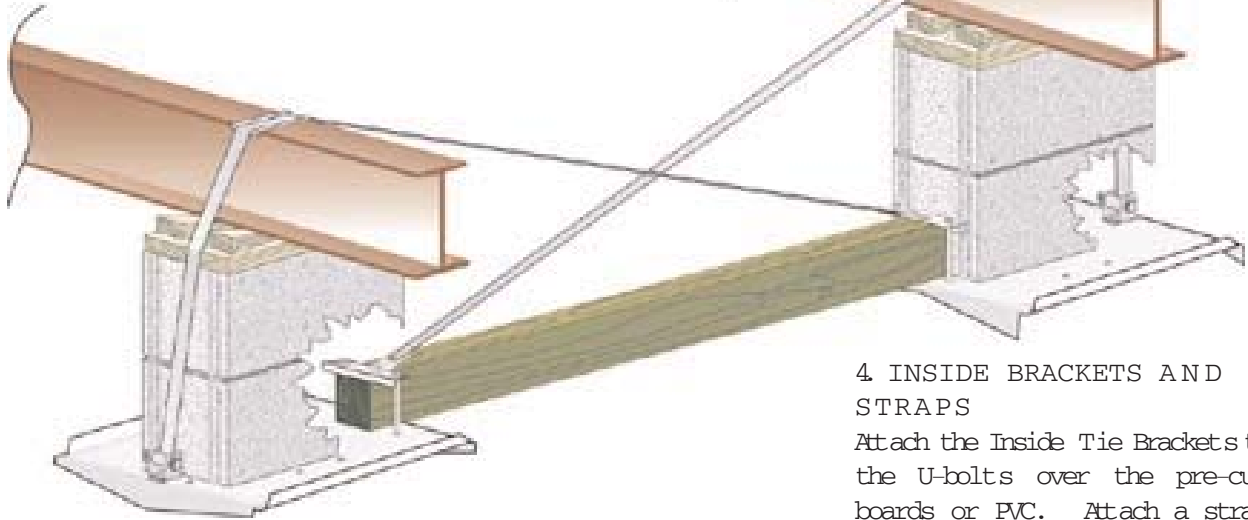
24-5900 Vector System Dirt

24-5908 Vector System Concrete

1. SET VECTOR FOUNDATION PADS

clear all loose vegetation from the immediate area where your Vector foundation pads will rest. Press or hammer pads into the ground.

Tip: Place a 3/8" nut on each U-bolt to keep it in place while you position the Vector pads.



2. SET BLOCKS (OR PIERS) ON VECTOR FOUNDATION PADS

Center the foundation blocks over the Vector pads. Place the pre-cut 4x4, 2x4's (side by side), Schedule 40 PVC (w/PVC adapter plate, part #59281) or 1 adjustable steel compression member, (part #59043) tightly between the blocks, with ends resting on the Vector pads, and centered on each U-bolt.

3. OUTSIDE TENSION BRACKETS

Attach an Outside Tension Bracket to the U-bolts on the outside of the foundation blocks and Vector pads. Place on of the short 6"- 2x4's between the bracket and Vector pad. Adjust the short 2x4 so that it pushes against the foundation blocks, removing any space between the piers and center compression section. Tighten the 3/8" bolts

4. INSIDE BRACKETS AND STRAPS

Attach the Inside Tie Brackets to the U-bolts over the pre-cut boards or PVC. Attach a strap with hook to each inside tie bracket. Tighten bracket. When using looped strap and a crimp seal, in place of the hook, place a 3" long section of strap, folded in half and inserted between the strap and inside tie bracket. Place other end of strap over the opposite I-beam and continue down to outside of the foundation blocks. Attach the strap to the Outside Tension brackets using the slotted bolt and nut provided. Wind strap a minimum of five times around the bolt. Continue tightening the slotted bolt until all slack has been removed and the strap is tight.

5. SET ANCHORS

Refer to section home drawings for anchor installation information. Stabilizer plates are required for diagonal ties only. Preload anchor against stabilizer plate. Make certain all slack is removed and strap is tight. For single section homes in rocky soil conditions in Wind Zone 1 only (Soild Classifications 2 & 3 only), use minimum of 3 each V-Drive anchors per side.

Prices And Specifications Are Subject To Change Without Notice.

Bottle Jack



Wilmar Corporation

Wilmar Corporation's Performance Tools heavy duty bottle jacks are built tough for years of use. The jacks come in 8 ton, 12 ton, and 20 ton.

- | | |
|---------|--------|
| 05-1628 | 8 Ton |
| 05-1632 | 12 Ton |
| 05-1633 | 20 Ton |

Beam Clamp Hook



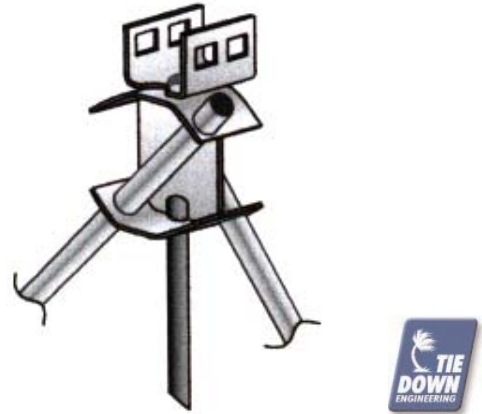
24-2693 3" Beam Clamp Hook w/bolt & nut

Concrete Anchor



24-5912 J Rod Concrete Anchor

Cross Drive Anchor



24-5911 30 X 3/4 Drive Anchor w/Swivel Head

Anchor Stabilizer



24-2627 Anchor Stabilizer

Patio Head



24-5910 Patio Head

Tie Down Stap



24-9223 12' Strap w/Swivel Clamp
24-5919 8' Strap w/Frame Clamp

Galvanized Strapping



24-2637 37' Galvanize Strapping

Double Disk Anchor



24-5909 30" X 3/4" Double Disk
Anchor

Gater Beam Clamp



24-2608 Gater Beam Clamp

Slotted Split Bolt



24-5913 Slotted Split Bolt

Lag & Shield



24-5258 Lag & Shield