

Manufactured Housing Products Catalog



Wind Tests in Excess of 100 mph.

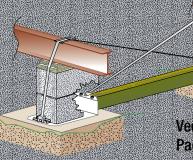


Foundation Products

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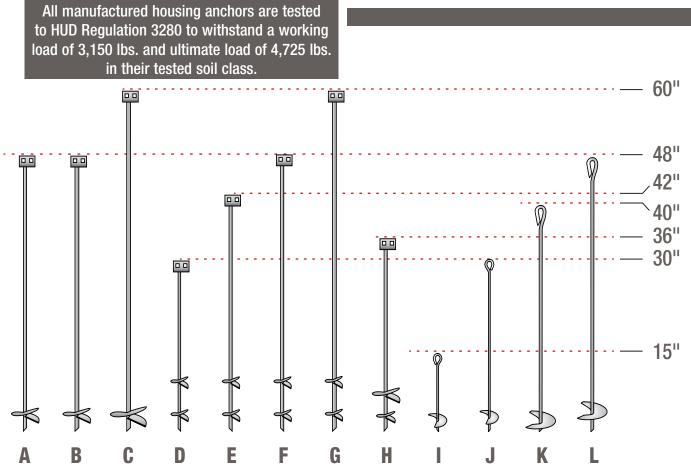
Manufactured Housing Division TIE DOWN ENGINEERING

www.tiedown.com 255 Villanova Dr. SW • Atlanta, Georgia 30336 800-241-1806 • (404) 344-0000 • Fax (404) 349-0401 Trade, brand, and product names are the property of Tie Down Engineering. ©2012 Tie Down, Inc. 061912,D855



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Earth Anchors



Iron Root Double Head Manufactured Home Earth Anchors*

#	Description	Black Paint	Galvanized ¹
Α	Model MI2H5/8 with 5/8" rod, 48" long, 6" helix, Class 4A	#59080	#59081
В	Model MI2H3/4 with 3/4" rod, 48" long, 6" helix, Class 4A	#59085	#59094
С	Model M607 with 3/4" rod, 60" long, 7" helix, Class 4B	N/A	#59099

Iron Root Double Head Double Helix Manufactured Home Earth Anchors*

#	Description	Black Paint	Galvanized ¹
D	Model MI225/8 with 5/8" rod, 30" long, 2 - 4" helix, Class 2	#59090	#59078
D	Model MI223/4 with 3/4" rod, 30" long, 2 - 4" helix, Class 2	#59095	#59079
Е	Model MI423/4 with 3/4" rod, 42" long, 2 - 4" helix, Class 4A	#59128	#59128G
F	Model MI483/4 with 3/4" rod, 48" long, 2 - 4" helix, Class 4A	#59086	#59086G
G	Model MI603/4 with 3/4" rod, 60" long, 2 - 4" helix, Class 2	#59097	#59097G
Н	Model MI2H64 with 3/4" rod, 36" long, 4" & 6" helix, Class 4A	#59250	#59250G

Eye Anchors*

#	Description	Black Paint	Galvanized ¹
I	15" long with 1/2" rod, 4" helix	#59050	N/A
J	30" long with 1/2" rod, 4" helix	#59055	#59057
Κ	40" long with 5/8" rod, 6" helix	#59060	#59061
L	48" long with 5/8" rod, 6" helix	#59065	#59064

* Other sizes available

¹ Not all anchors are stocked in galvanized

TIE DOWN ENGINEERING

Speciality Anchors



Deep Set Anchor/Stabilizer

Combines the earth anchor and stabilizer plate into one installation step. Large stabilizing disc 7" x 1-5/8" sets faster in hard ground with 4 digging points.

- Reduces installation time
- Slotted head for easy carry 4 packs
- Less inventory- plate & anchor in one!

30" long with 3/4" rod and 2 - 4" helix, for Soil Class 3Black Paint Part #59091Galvanized Part #59091G

36" long with 3/4" rod and 4" & 6" helix, for Soil Class 4A Black Paint Part #59092 Galvanized Part #59092G





Concrete Anchor w/Threaded Rod

This anchor is designed to be inserted through a 3/4" hole drilled or formed into an existing concrete slab.

Model #MIT2 Black Paint Part #59115 Galvanized Part #59117

J Rod Concrete Anchor

The J Rod Concrete Anchor is designed to be installed into a concrete slab at the time the concrete is being poured.

- Model MIJ2 12" Anchor MIJ2 8" Anchor MIJ2 12" w/Swivel Head MIJ2 8" w/Swivel Head
- Black Paint #59120 #59123 #59109 #59147

Galvanized #59121 #59123G #59109G #59147G



Double Head Anchor with Expansion Bolt

This anchor is designed to be bolted to an expansion sleeve in an existing concrete slab.

Model # MICS2 Black Paint Part #59125 Galvanized Part #59124

Double Head Only

Black Paint Part #59103 Galvanized Part #59104

Single Head Anchor with Expansion Bolt Black Paint Part #59029

Expansion Bolt Only Part #2M58SA

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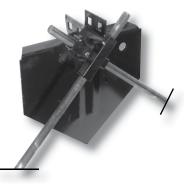
Cross Drive Rock Anchor

Engineered for installation into solid rock within 1" from bottom of the anchor base. Exact alignment is achieved with the swivel tensioning head. Model #MRA with 30" rods, for Soil Class 1 Black Paint Part #59110 Galvanized Part #59110G

Model #MRA with 48" rods, for Soil Class 1 Black Paint Part #59111 Galvanized Part #59111G

X-Plate Anchor

Stabilized Cross Drive Anchor For difficult class 2 Soils. 2200 lb. working load at 50 degrees max angle. Black Paint Part #59118 Galvanized Part #59119



Asphalt Anchor

Black painted asphalt anchor must be installed with hammer drill. Used for horizontal anchorage at a maximum of 50 degrees, not for vertical anchorage. Part #59367



All Purpose 15" Anchor Kit

Eye Anchor Kits All Purpose Anchor Kit

4 -15" anchors, 8 – 1/8" galvanized clamps, 50' 1/8" galvanized aircraft cable Part #59070

Storage Building Anchor Kit

4 - 30" anchors, 8 – 1/8" galvanized clamps, 60' 1/8" galvanized aircraft cable Part #59075



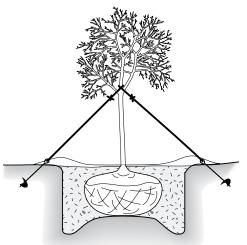
Storage Building 30" Anchor Kit

Tie Down/ArborTie® Anchor Kit

ArborTie[®] is a revolutionary material for staking and guying trees. Specifically designed to replace traditional methods such as wire and hose, ArborTie[®] is safe, soft, easy to use and less expensive than traditional tree ties.

Small Tree Anchor Kit Part #59451 (3-15" Eye Anchors with 30' of ArborTie[®])

Medium Tree Anchor Kit Part #59452 (3-30" Eye Anchors with 30' of ArborTie[®])



TIE DOWN ENGINEERING

Soil/Anchor Classification Chart

Soil Class & Test Value (in. lbs.)	Recommended Anchor / Stabilizers		Part N Black	umber Galvanized
1	30" Cross Drive Rock Anchor 48" Cross Drive Rock Anchor		59110 59111	59110G 59111G
2 551 lbs. +	30" X 5/8" rod / 2 - 4" helix 30" X 3/4" rod / 2 - 4" helix 60" X 3/4" rod / 2 - 4" helix All anchors above should use or when subjected to lateral loads 12" Stabilizer Plate Quik-Set Stabilization Plate X-Plate Anchor with 2 - 23/32"	: ate	59090 59095 59097 59292 59291 59118	59078 59079 59097G 59292G 59291G 59119
3 351 to 550 lbs.	48" X 5/8" rod / 1 - 6" helix 48" X 3/4" rod / 1 - 6" helix 36" X 3/4" rod / 1 - 6" helix & 1 All anchors above should use or when subjected to lateral loads 12" Stabilizer Plate Quik-Set Stabilization Pla Deepset Anchor 30" X 5/8" rod	ne of the following : ate	59080 59085 59250 59292 59291 59091	59081 59094 59250G 59292G 59291G 59091G
4a 276 to 350 lbs.	48" X 5/8" rod / 1 - 6" helix 48" X 3/4" rod / 1 - 6" helix 36" X 3/4" rod / 1 - 6" helix & 1 3/4" rod, 42" long, 2 - 4" helix, 0 3/4" rod, 48" long, 2 - 4" helix, 0 All anchors above should use or when subjected to lateral loads 12" Stabilizer Plate 17 -1/2" Stabilizer Plate Quik-Set Stabilization Plate ABS Stabilization Plate (F Deepset Anchor 36" X 3/4" rod 2	Class 4A Class 4A ne of the following : (Florida Only) ate Florida Only)	59080 59085 59250 59128 59086 59292 NA 59291 59293 59092	59081 59094 59250G 59128G 59086G 59292G 59286 59291G NA 59092G
4b 175 to 275 lbs.	60" X 3/4" rod / 1 - 7" helix All anchors above should use or when subjected to lateral loads 17 -1/2" Stabilizer Plate ABS Stabilization Plate		NA NA 59293	59099 59286 NA

NOTE: Each State, County or Municipality may require a specific anchor from the groups shown for each soil classification. Check local and State regulations first.



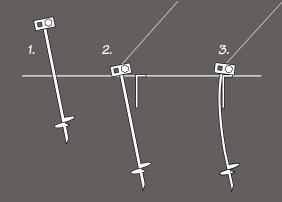
Earth Anchor Stabilizer Prevents anchor from slicing through soil laterally in the direction of the frame tie. 12" wide. Black Paint Part #59292 Galvanized Part #59292G

XL Stabilizer Plate

This plate is required in Florida for installation in Class 4 soils. The plate measures 17.5" x 13.5". Galvanized Part #59286

Anchor/Stabilizer Installation

- 1. Position anchor at a slight back angle (10°) so that when fully installed, the anchor head will be inside any skirting or side wall.
- Install anchor to +/- 2/3 depth, then install stabilizer vertically, within 3"-4" of anchor shaft, parallel to wall of home.
- 3. Fully drive anchor, attach strap (see proper strap tensioning), and pretension strap to pull anchor rod against the stabilizer plate.





Quik-Set Stabilization Plate

- Sets Quickly
- Requires little or no hammering
- Quick-N-Easy installation, let the Drive Machine do the work
- Inclined steady rest engineered to allow ground anchor to be installed at a slight back angle (10-15 degrees)

Black Paint Part #59291

Galvanized Part #59291G



ABS Stabilizer Plate Designed for loose soil conditions. For Class 4 Soils. 10" x 24" Part #59293

TIE DOWN ENGINEERING

Certified Galvanized Strapping

HUD Code 3280 and 3285(2) require 1-1/4" X .035" or larger steel strapping conforming to ASTM D3953-97, standard specifications for strapping, flat steel and seals. Type 1, Grade 1, Finish B, with a minimum total capacity of 4,725 lbs. and a working capacity of 3,150 lbs. marked every 5 ft. The straps must be provided with protections against weather deterioration and corrosion at least equivalent to that provided by a coating of zinc on steel of not less than .30 oz./ft. of surface coated. Slit or cut edges of coated strapping need not be zinc coated.





Tie Down Marked & Certified Galvanized Strapping Galvanized Part # Length G60 59150 35'

G60	59155	37'
G60	59165	60'
G60	59170	600'
G120	59218	37'
G120	59219	600'



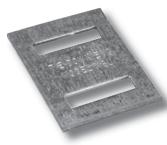
Crimping Tool

Tie Down crimp tools are designed for use with .035 thickness, 1-1/4" wide strap and steel crimp seals. Part #59180



Crimping Seals

Semi-Closed style for ease of use and strong bonds. Fits 1-1/4" strapping. Part #59175



Double Slot Strap Buckle

High strength steel buckle with rust resistant hot dipped galvanized finish. Secures strap around mobile home frame. Part #59140

Swivel Head Bracket

For use with Beam Clamps, Longitudinal Clamps and Vector Foundation Systems. Part #59002



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Frame Tie with Hook



For fast and safe installation of frame ties, this heavy duty 1/4" steel hook locks securely onto frame. Certified Galvanized Steel Strapping conforms to NCS BCS A225.1 (ANSI A119.3) and HUD specifications.

Model	Part #	Length
MHT6	59185	6'
MHT7	59190	7'
MHT8	59195	8'
MHT10	59210	10'
MHT12	59211	12'
MHT14	59214	14'
MHT16	59196	16'

Frame Tie with Buckle

For fast & easy installation of frame ties with buckle.

Description	Part #	Length	
MBU7	59141	7'	1
MBU8	59146	8'	
MBU10	59138	10'	
MBU12	59144	12'	
MBU16	59234	16'	



Slotted Bolt & Nut

Required for the tensioning of frame or sidewall with all tension head anchors. Model #BISB Part #59135



Double Tension Head

Featured on all tension head anchors. Built tough for maximum tensioning on either frame and/or roof ties. Strap bolts are securely locked every fourth of a turn with the square lock head. Model #MIDH Black Paint Part #59100 Galvanized Part #59100G



Swivel Adapter Head

Adapter converts existing eye anchors into tension head anchors. Includes two slotted bolts & nuts. Model #MIS2 Black Paint Part #59105 Galvanized Part #59106

TIE DOWN ENGINEERING

Strap & Hardware

Beam Clamps

For use with Universal & Standard Swivel Strap Connectors



 Part #
 Size

 59003
 3" Beam

 59004
 4" Beam

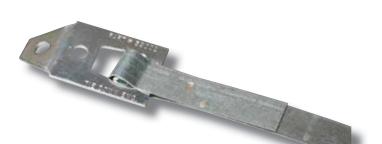
 59005
 DBL Beams

Gator Beam Clamps



For attaching strap to I-beam at each end of the home for longitudinal anchors.

4 Bolt Gator Clamp	
for Zone I and II	Part #58999
8 Bolt Gator Clamp	
for Zone III and Florida	Part #59011



G-60 Strap w/ 59002 Swivel Connectors

Zone I & II Longitudinal - Beam Clamp - VectorPart #597255' Strap w/Swivel ConnectorPart #597266' Strap w/Swivel ConnectorPart #597277' Strap w/Swivel ConnectorPart #597288' Strap w/Swivel ConnectorPart #5973010' Strap w/Swivel ConnectorPart #5973212' Strap w/Swivel ConnectorPart #5973616' Strap w/Swivel Connector

G-120 Strap w/ 59002 Swivel Connectors

Zone III & Florida Longitudinal Beam Clamp - Vector
Part #59209V 7' Strap w/Swivel Connector
Part #59213V 8' Strap w/Swivel Connector
Part #59217V 10' Strap w/Swivel Connector
Part #59223V 12' Strap w/Swivel Connector
Part #59231V 16' Strap w/Swivel Connector

Universal Swivel Strap Connector

One Strap . . . Four installation Options Made with G-120 strap for Zones II & III installations

Universal Swivel Strap

5 Feet

6 Feet

7 Feet 8 Feet

10 Feet

12 Feet 16 Feet

Connector w/G120 Strap

Part #59207

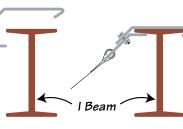
Part #59208

Part #59209

Part #59213 Part #59217

Part #59223

Part #59231



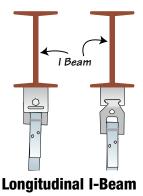
Ноте

Swivel Strap & I-Beam Bracket

Ноте

Home

Sidewall Slotted

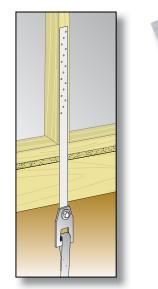


Sidewall w/ Nut & Bolt

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Sidewall Brackets for Modular & Manufactured Homes



Sidewall Swivel Strap Assembly

Includes: Connector, Strap, Bolt, 2 Washers & Nylock Nut Part #59337A 1,717 lb. Capacity Part #59338A 2,500 lb. Capacity

Swivel Strap Connector (Only)

Part #59336 10 ga. Zinc

Tie Straps (Only)

Part #59337 26.5" x 1.25" 14 ga. Pre-galvanized Part #59338 28.75" x 1.50" 12 ga. Pre-galvanized

Swivel "L" Tie Plate Assembly

Includes: Connector, "L" Tie Plate, Bolt, 2 Washers & Nylock Nut Part #59339A 2,350 lb. Capacity

Swivel Strap Connector (Only)

Part #59336 10 ga. Zinc

Swivel "L" Tie Plate (Only) Part #59339 13.3" x 3" x 3" 14 ga. Pre-galvanized



Swivel Tie Plate Assembly Includes: Connector, Tie Plate, Bolt, 2 Washers & Nylock Nut Part #59342A 2,000 lb. Capacity Part #59340A 3,150 lb. Capacity

Swivel Strap Connector (Only) Part #59336 10 ga. Zinc

Tie Plates (Only)

Part #59340	6" x 8"	12 ga. Pre-galvanized
Part #59342	6" x 8"	14 ga. Pre-galvanized

Tie Plate Part #59341

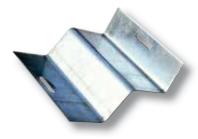
3" x 16" 14 ga. Pre-galvanized 2,400 lb. Capacity

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Hardware



Strap Protectors Attaches between strap and I-beam to prevent cutting or breaking of strap on sharp edges. Bulk Part #59232 24 Pack Part #59232P



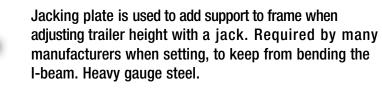
Galvanized Roof Bracket Designed to hold strap or cable

ties away from the roof and sides of mobile homes. Part #59145



Angle Frame Bracket For attaching longitudinal anchors to I-beam at each end of the home. Part #59009

Jacking Plate



3-1/2" Wide 5" Wide Part #59000 Part #59001



Speed Wrench

Tie Down's SPEED WRENCH simplifies anchor installation with a design that allows for one handed operation for installing slotted bolts and tensioning strap. The SPEED WRENCH has a 15/16" (or 24 mm) impact socket on one side and a 15/16" "nut" on the other. Combine this with your own ratchet and 15/16" (or 24 mm) socket and you have the fastest way to tighten slotted bolts! Part #48900



Strap Installation



1. Place Speed Wrench over the bolt head. Insert the strap end into the slot in bolt until flush with opposite side of bolt.



2. Hold Speed Wrench in place, tighten bolt with socket wrench on outside of Speed Wrench (bolt head side).



3. Move socket to the opposite (nut) side. Hold Speed Wrench in place. Use socket wrench to tighten nut.

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Electric Drive Machine

Make quick work of earth anchor installation with the 1/2 HP, 18 RPM Electric Drive Machine from Tie Down Engineering. Adapter head fits all double head anchors and has a socket on the inside to fit the Soil Test Probe. Ground fault interrupter cord is standard on the EDM-18.

- 1/2 HP Motor
- 18 RPM
- 20% More Torque
- Quieter, Smoother Operation
- Ground Fault Interrupter (GFI)
- Solid Metal Housing
- Box Tube & Stamped Steel Frame
- Forward & Reverse Switch
- 90 Day Limited Warranty



Anchor Adapter Head (Included with the EDM-18) Part #59205

Soil Test Probe Kit Part #59200

The purpose of the Soil Test Probe Kit is to determine the soil conditions below the surfaces near the anchor's helix plate. This will provide maximum anchor holding strength by insuring use of proper anchors for each soil condition. Includes multi pocketed carrying case.



Electric Drive Machine Model EDM-18, 1/2 HP Part #59224





Eye Anchor Adapter Head Optional Part #59206

Soil Test Probe Information

The Soil Test Probe is used to determine the soil conditions below the surface near the anchor's helix. Using the Soil Test Probe will ensure maximum anchor holding strength by indicating the proper anchor model for each soil condition. The Anchor Chart on page 5 and a test probe reading can be used to get a recommend anchor for every soil condition. Instructions

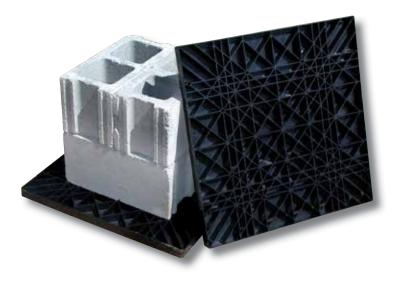
- Place probe tip into ground where you intend to place the anchor. Using a 15/16" (or 24 mm) hex socket with a ratchet or breaker bar, rotate the probe in a clockwise direction. (An electric drive machine with an adapter head may also be used)
- 2. Drive (rotate) the torque probe into the soil until reaching a depth equal to the length of the anchor being installed.
- 3. To determine the soil classification:
 - Place wrench adapter onto torque wrench.
 - Insert hex portion of wrench adapter onto the earth probe.
 - Support probe shaft with one hand, while rotating probe steadily with the wrench. (Do not exceed 600 in. lbs.)
 - Read the torque wrench while rotating probe clockwise.
 - Use the Anchor Chart on page 5 to cross reference probe readings.
- 4. If probe reading does not match the anchor for that depth, rotate probe to next anchor depth and check reading. Continue until reading on probe matches anchor length for depth of reading.
- 5. To remove probe, use wrench or electric drive machine in reverse (counter clockwise).

TIE DOWN ENGINEERING

ABS Foundation Pads

- Lighter than concrete, saves on labor.
- Larger pads to increase spacing, saving time and material.
- Made from recycled materials.

- Easily stackable for larger pad area and wider pier spacing.
- Multi stack for 5 sq. ft. & 6 sq. ft.
- Approved for use by HUD 3285.312(3)



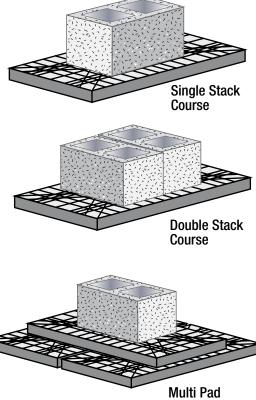


Pad Bearing Capacity				
ABS Pad Size	Part#	1,000 lbs. Soil	2,000 lbs. Soil	3,000 lbs. Soil
16" x 18"- 2 Sq. Ft. 288 Sq. In.	59300	2,000 lbs.	4,000 lbs.	6,000 lbs.
16" x 22.5" - 2.5 Sq. Ft. 360 Sq. In.	59301	2,500 lbs.	5,000 lbs.	7,500 lbs.
17" x 25"- 3 Sq. Ft. 432 Sq. In.	59302	3,000 lbs.	6,000 lbs.	N/A
24" x 24" - 4 Sq. Ft. 576 Sq. In.	59303	4,000 lbs.	8,000 lbs.	N/A
Multi Pad Layout				
32" X 22.5" (See 1 below) 5 Sq. Ft 720 Sq. In.	3 X 59301	5,000 Lbs.	10,000 Lbs.*	
34.4 X 25.2 (See 2 below) 6 Sq. Ft 864 Sq. In.	3 X 59302	6,000 Lbs.	12,000 Lbs.*	

* Concrete Block rated @ 8,000 lbs. Double block any higher loads.

1. The 32 X 22.5 Pyramid configuration uses 2 - 16 X 22.5 pads placed side by side with 1 - 16 X 22.5 pad on top in the opposite direction.

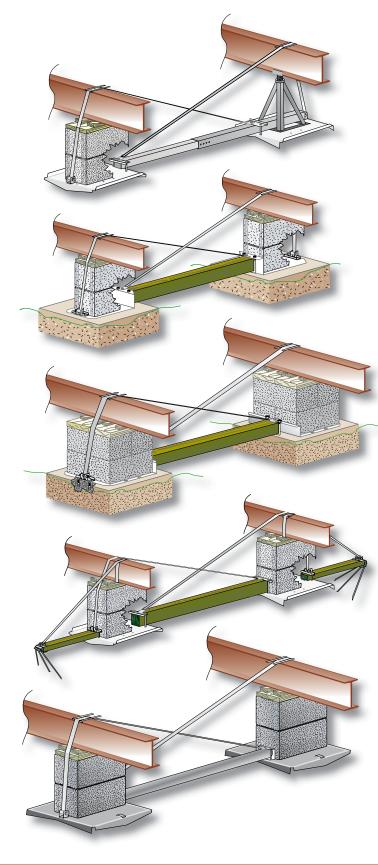
2. The 34.4 X 25.4 Pyramid configuration uses 2 – 17.2 X 25.2 pads placed side by side with 1 – 17.2 X 25.2 pad on top in the opposite direction.



Layout

Vector Systems: Lateral Stabilization

Vector Dynamics



Tie Down's Patented Vector Dynamics Foundation System Provides Windstorm & Seismic Protection For Manufactured Homes (Wind Zones I, II & III, Florida & Seismic Loads)

Vector System For Lateral Stabilization Block Pads Part #59018

Kit includes: 2 pans, swivel straps, strap protectors, pan connectors, slotted bolts & hardware. Optional: Steel Compression Member

Vector System For Lateral Stabilization for Concrete (Single Block)

Part #59036

Kit includes: 2 concrete pans, swivel straps, strap protectors, concrete brackets, slotted bolts & hardware. Optional: Steel Compression Member

Vector System For Lateral Stabilization for Concrete (Double Block)

Part # 59049 Kit includes: 2 concrete pans, swivel straps, strap protectors, concrete brackets, slotted bolts & hardware. Optional: Steel Compression Member

Vector System For Lateral Stabilization Difficult/Rocky Soils.

For use on single section units only. #59287 - V-Drive System Kit includes: 2 adapter heads and 6 rods Must be used with: #59018 - Vector for single/double block pads

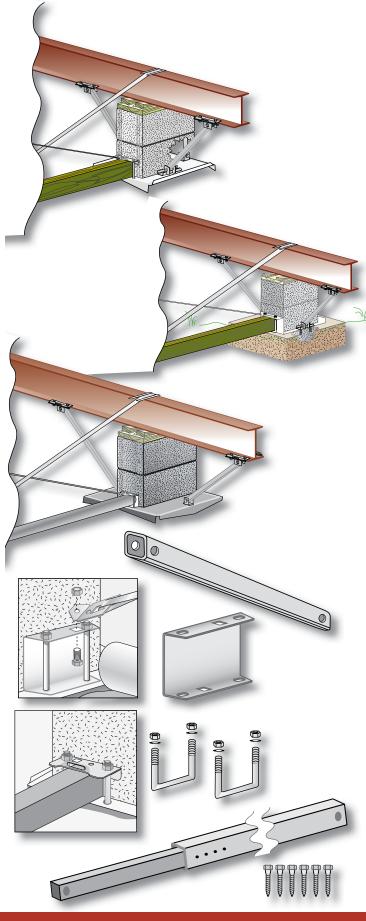
3 Sq. Ft. Pad Vector System

Part #59271 - Vector 3 Sq. Ft. pad (sold individually, 2 required for lateral, 1 for longitudinal systems)

Part #59024 - Vector Lateral Hardware Kit (Florida) Kit Includes: U-bolts, strap protectors, pan connectors, PVC adapter, nuts & bolts (swivel strap and slotted bolts not included).

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Vector Systems: Longitudinal Stabilization



Longitudinal Stabilization Hardware Kit Part #10733

(for use with #59018 Vector System, single stack block sets only, longitudinal struts not included)

Longitudinal Stabilization Hardware Kit for Concrete

Part #59023 - Includes 2 beam clamps, tension brackets, nuts and bolts. (for use with #59036 & 59049, longitudinal struts not included)

3 Sq. Ft. Pad Vector Longitudinal System Part #59026

Kit Includes: 2 beam clamps, 2 tension brackets, nuts & bolts. (for use with #59271, longitudinal struts not included)

Struts for Longitudinal Systems

Part #	Length	Pier Height
59016	30"	up to 2 Blocks
59012	39"	up to 3 Blocks
59013	44"	up to 4 Blocks
59014	53"	up to 5 Blocks
59015	65"	up to 6 Blocks

PVC Adapter Bracket

Part #59281 - For use with Schedule 40 PVC

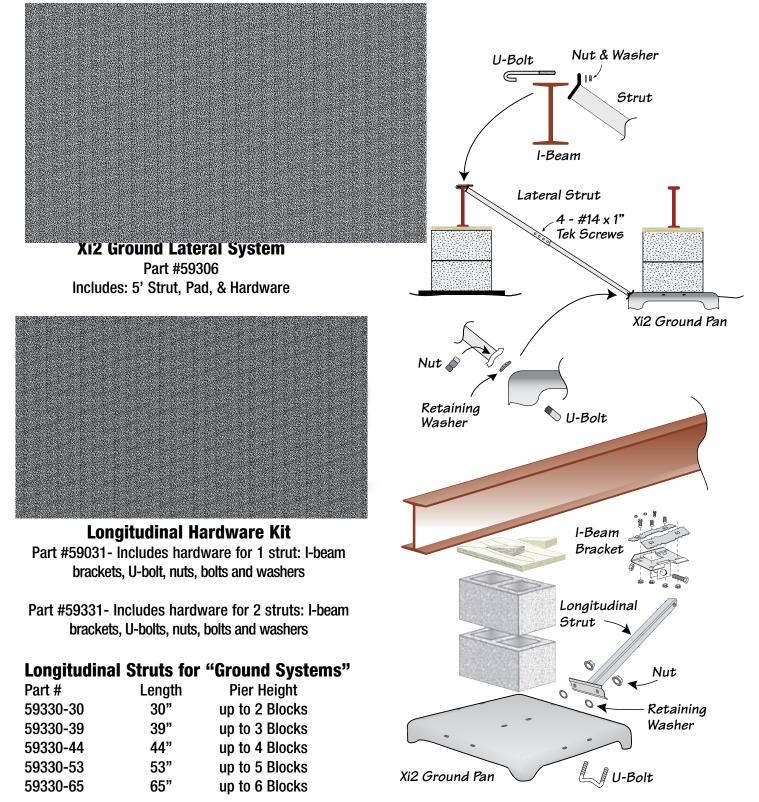
Center Compression Strut

Part #48612 - Single Section, 62"- 108" Part #48613 - Double Section, 34"- 60" (Includes short u-bolts, nuts, washers and 6 self taping screws)

Xi2 Ground Foundation System

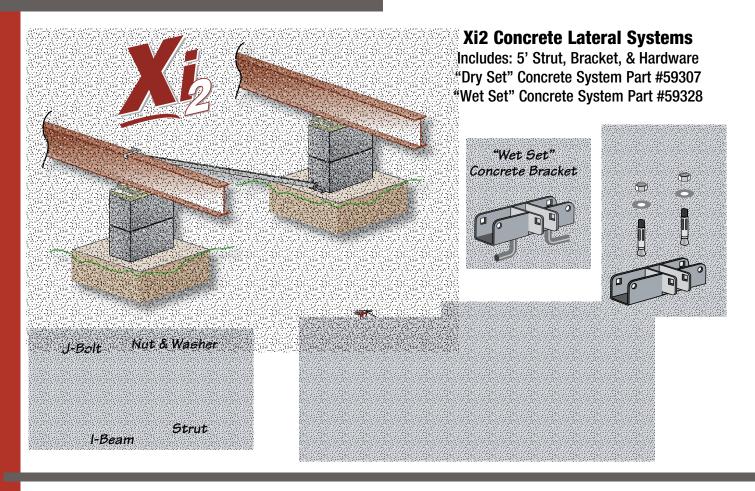


- Easiest system to install
- Stabilizer plates and diagonal frame ties are not required in most set-ups
- Longitudinal stabilization is easily added with Tie Down's LSD strut kit
 - Heavy galvanized coating on bracket and struts
 - For use in Wind Zones I, II & III, Florida & Seismic Loads



TIE DOWN ENGINEERING

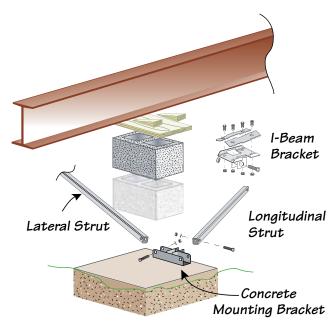
Xi2 Concrete Foundation System

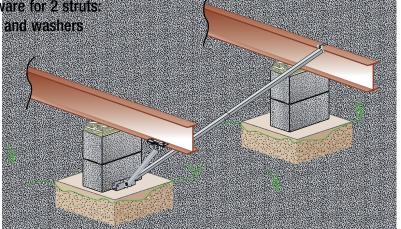


Xiz

Xi2 Longitudinal Hardware Kit

Part #59163 - Includes hardware for 1 strut: I-beam bracket, nuts, bolts and washers Part #59263 - Includes hardware for 2 struts: I-beam bracket, nuts, bolts and washers



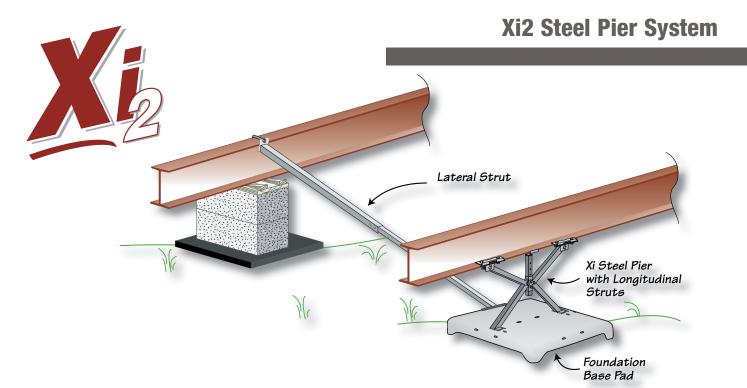


Longitudinal Struts for "Concrete Systems"

Length	Pier Height
30"	up to 2 Blocks
39"	up to 3 Blocks
44"	up to 4 Blocks
53"	up to 5 Blocks
65"	up to 6 Blocks
	30" 39" 44" 53"

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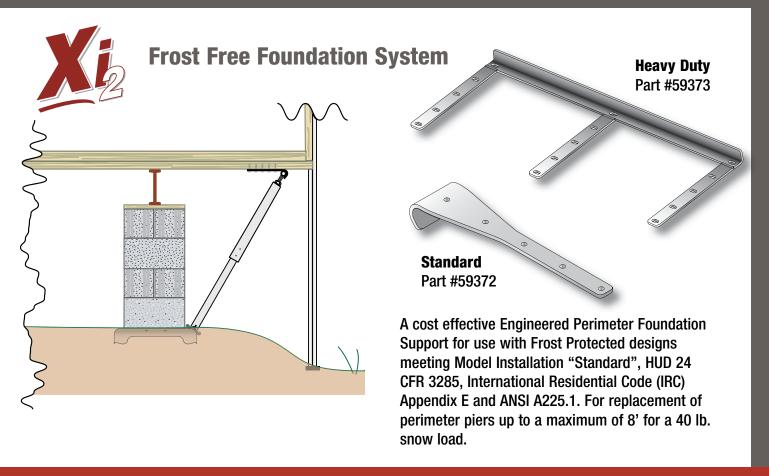
Xi2 Steel Pier with Longitudinal System

Includes: steel pier/longitudinal struts and foundation base pad Part #59321 - Xi2, for 12" Height Part #59314 - Xi2, for 25.5" Height Part #59317 - Xi2, for 36" Height

Lateral Stabilization Struts

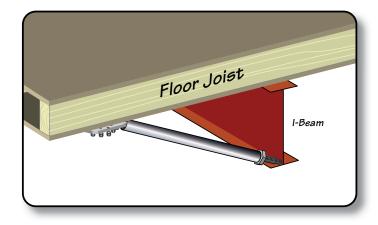
Steel Piers can be combined with one of the following for lateral support:

Part #59345 - Xi2, Lateral Strut, 5' w/hardware Part #59348 - Xi2, Lateral Strut, 6' w/hardware



TIE DOWN ENGINEERING

Finishing Products



Racking Alignment Brackets

- Make alignment of problem roofs easier.
- Eliminate popped seams from lifting on corners of the home.
- Thick galvanized steel for years of service.
- One person operations saves time and money.

Part #59366

Adjustable Outrigger/Diagonal Strut

Use under doors and windows instead of perimeter blocking. Allows for easy door adjustments. Easy to install, installation instructions included. Includes all hardware.

24" for 14 ft. wide - Part #59361 36" for 16 ft. wide - Part #59362





Latch Sav'r

Prevents damage to the latch area of most outswing doors and helps cover existing door damage. Simply remove door lock, lay plate on the door behind the lock, replace lock and tighten in place.

Stainless Steel White Powder Coat Part #59394 Part #59398

Skirt Hang'r

- Easily attaches to rim joist
- Pre-drilled and slotted for easy adjustment
- Galvanized to last a lifetime
- Mounts directly to the back rail or use the Skirt Hang'R for mounting support rails
- Meets HUD requirements 3285.504
- Stops vinyl to vinyl expansion and contraction problems
- Eliminates water between siding and trim wall cavities



Part #43779

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Transportation & Towing Products



Axle Removal Skid

Used when removing axles after completion of setting unit on site. Simply unbolt axle and lay in skid pan with hub behind bracket, move to opposite side and after removing bolts, slide axle out from under home. Turns a rough job into a safe one person operation.

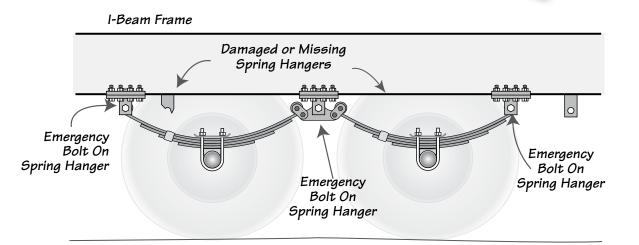
Part #59399

Emergency Spring Hanger

For temporary attachment of spring hangers, allowing for additional axle installations when broken down in the field. 4 bolt and 8 bolt models designed for use on 3" or 4" beams, simply bolt to the I-beam and add an axle where needed.

> 4 Bolt Model Part #59600

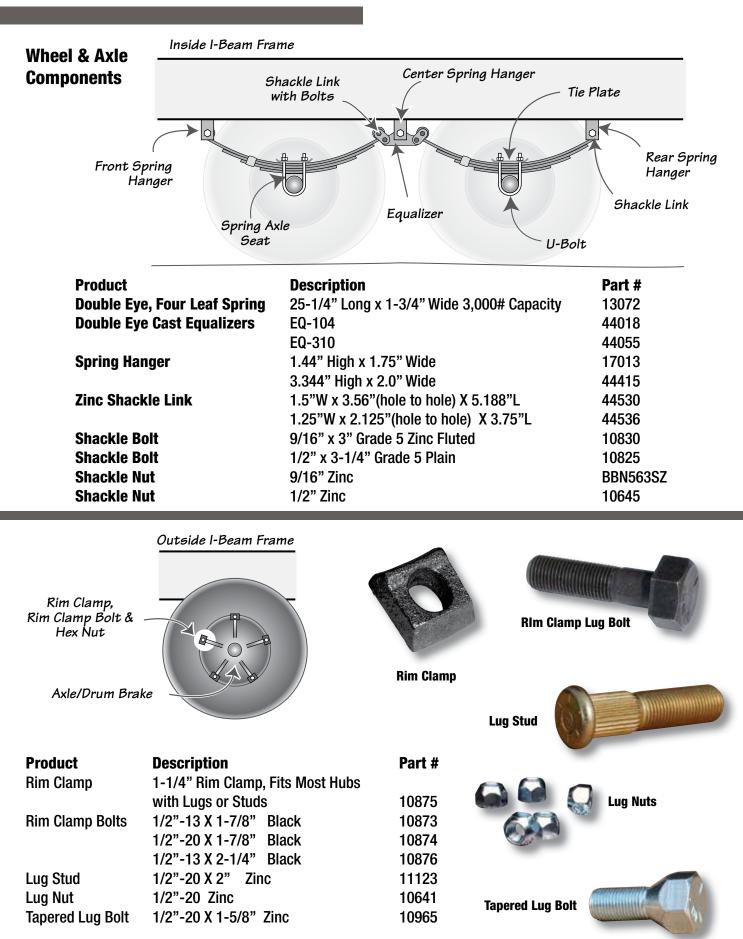
8 Bolt Model Part #59601



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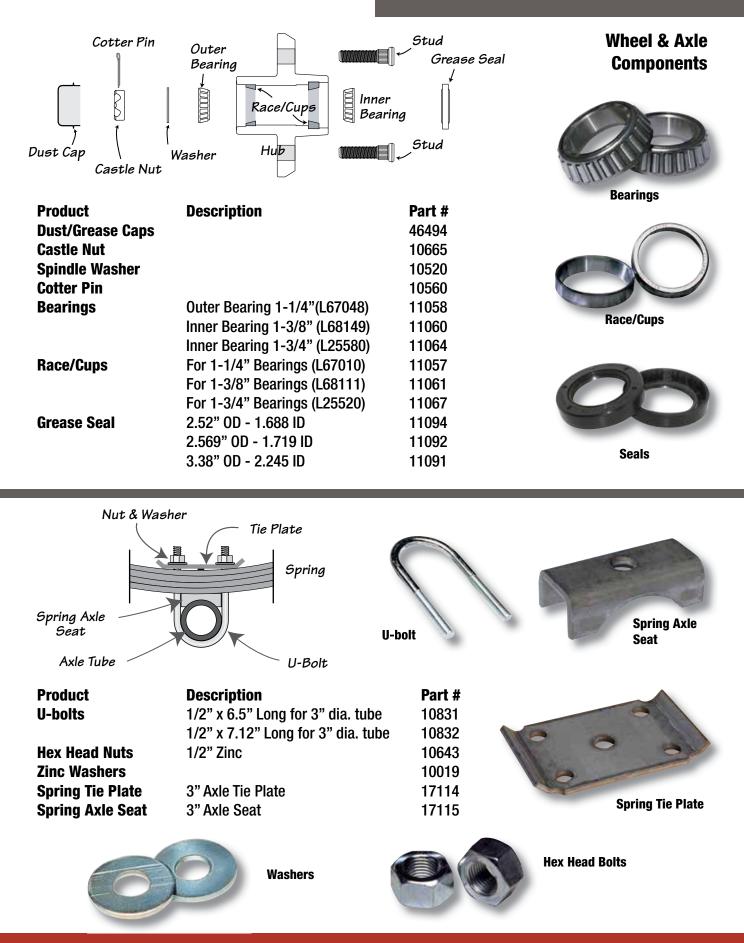
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TIE DOWN ENGINEERING

www.tiedown.com



The tiedown.com web site contains information for all six divisions within Tie Down Engineering which include:

> OEM Trailer Products Marine Aftermarket Products Manufactured Housing Roofing Products Cable and Hardware Industrial Laser Solutions

Manufactured Housing Division:

Earth Anchors Galvanized Anchors & Strap ABS Foundation Pads Foundation Systems States and Approvals Test Reports (Restricted)

Downloads Library http://www.tiedown.com/technical-support.html

Complete library includes instructions for all of Tie Down's products and foundation systems.



States and Approvals http://tiedowneng.com/dapproval.html

Not all States have specific requirements for manufactured housing, but most do. Simply click on your state to view state approvals and or requirements. We list every state required approval and installation specific instructions for each state.

Test Reports (Restricted Access) http://tiedowneng.com/dreports/dreports.html

Over 75 test reports for Manufactured Housing products. Test reports include: ABS pads, anchor certification, each earth anchor/stabilizer plate and every foundation system. Clicking on the listed report opens the full test report in Adobe Acrobat file format. Access to this site is restricted please call the contact listed for complete access.



