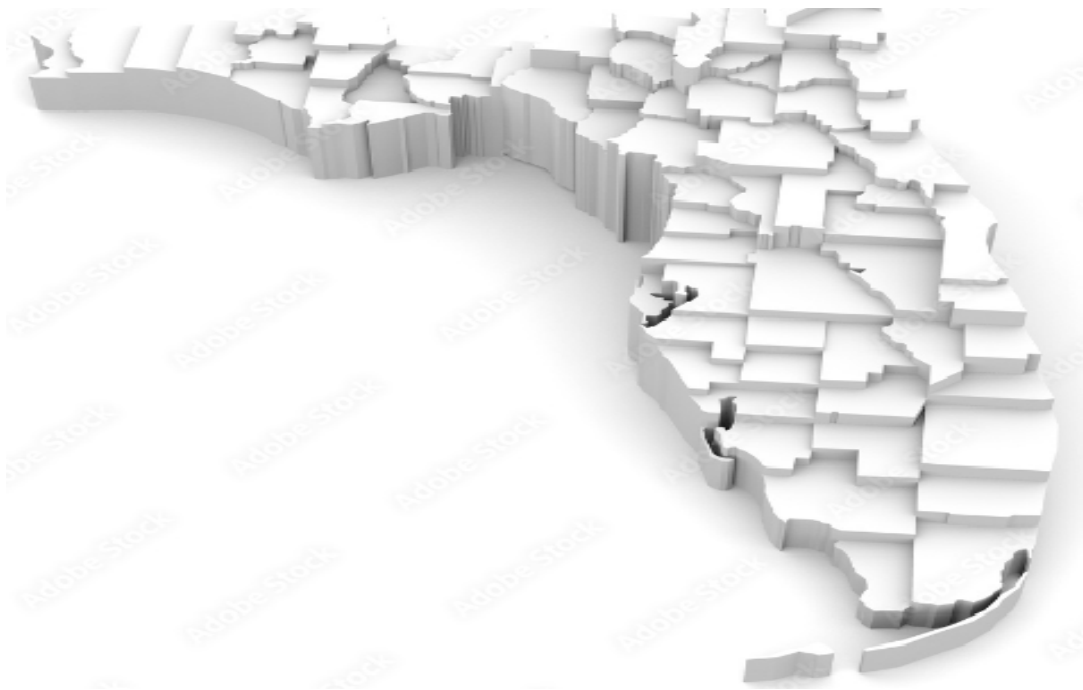




Manufactured Housing Section



State of Florida
Approved Products List
For The Installation of HUD
Mobile/Manufactured Homes

INTRODUCTION

Florida Statutes require that mobile/manufactured homes are installed safely and will meet wind loads as determined by Section 3280.306 of Code of Federal Regulations (CFR), Part 3280, Manufactured Housing Construction and Safety Standards established by the U.S. Department of Housing and Urban Development.

Section 320.8251, Florida Statutes. requires that: "Each person or entity that engages in the manufacture of mobile home installation components, products, or systems must obtain a certification from the department which affirms that such component, product, or system is approved for use in the installation of mobile homes in this state." The "department" refers to the Department of Highway Safety and Motor Vehicles. The Manufactured Housing Section of the Bureau of Motor Vehicle Field Operations is a unit of this department responsible for certifying mobile/manufactured home components, products, and systems for use in Florida.

This document is the official list of mobile/manufactured home installation components, products and systems that have been certified for use in Florida.

If you have any questions, you may contact me at (352) 512-6809

Tom Houseworth
Field Services Manager

References:

- Section 320.8249, F.S.: Provides for the licensing and regulation of mobile/manufactured home installers.
- Section 320.8251, F.S.: Provides for the certification of mobile/manufactured home installation components, products, and systems.
- Section 320.8325, F.S.: Provides for the department to adopt rules setting forth uniform standards for the installation of mobile/manufactured homes.
- Rule Chapter 15C-1, F.A.C.: Provides the uniform mobile/manufactured home installation standards for Florida.

Note: Installer is responsible for determining soil bearing capacity.

BYRD FOOTER SYSTEMS, INC.

624 U.S. Highway 17, South

San Mateo, Florida 32187

Phone# 386-328-1020

Email:Byrds_05@live.com

MODEL #	IDENTIFICATION	DESCRIPTION
Byrd Footer System	3,000 lb. w/Fiber Mesh Concrete Footer	Lateral/Longitudinal Stabilizing System

HOME PRIDE, INC.

P.O. Box 160387

Nashville, Tennessee 37216-0387

Phone# 615-650-3825

Email: jwilson@hpanchors.com

MODEL #	IDENTIFICATION	DESCRIPTION	Soil Class	Working Load	Ultimate Load
HP-4	Galvanized Auger Anchor	5/8" x48" steel rod, double bolt head, single 6" disc – 0.175" thickness, 7 gauge	4a	3,150	4,725
HP-5	Galvanized Auger Anchor	¾" x 48" steel rod, double bolt head, single 6" disc – 0.167", 7 gauge	4a	3,150	4,725
HP-8	Galvanized Auger Anchor	¾" x 60" steel rod, double bolt head, single 8" disc – 0.169", 7 gauge	4b	4,000	6,000
59285	Galvanized Stabilizer Plate	17 ½" wide, 7" side depth, 13 ¾" center depth, .105" thickness and 90° top bend	4b	3,150	4,725
Home Pride	Strapping	1 ¼" x 0.0375" galvanized flat strapping, ASTM D3953-91	N/A	3,150	4,725
HP	Galvanized Split Bolt	5/8" x 3" x 5/8" square shoulder w/hex head standard thread, shaft saw cut	N/A	3,150	4,725

HOME PRIDE, INC., continued...
P.O. Box 160387
Nashville, Tennessee 37216-0387

MODEL #	IDENTIFICATION	DESCRIPTION	Soil Class	Working Load	Ultimate Load
Home Pride	Crimping Seal	17/16" x 2 ¼" zinc plated	N/A	3,150	4,725
59002 TD	Swivel Strap Connector	2.600" x 4.875" x 10 gauge with 1 ¼" x .035" galvanized steel strap	N/A	3,150	4,725
59003 TD	Beam Connector for 3" I-beam	2.5" x 7.300" x 10 gauge used with 59002 and grade 5 bolt and nut	N/A	3,150	4,725
59009	Longitudinal Beam Connector	1 ½" x 6 ½" x ¼" used as a pair with 59002	N/A	3,150	4,725
59011	Longitudinal Beam Clamp	6" x 6 ¾" x 7 gauge frame clamp with 8 – grade 5 bolts and nuts	N/A	3,150	4,725
HP62	Adjustable Perimeter Support Min 16 X 16	Door and window support	N/A	N/A	N/A
HP12LS	Tension Head W/Lag Bolt	Concrete anchor	N/A	N/A	N/A
HP13	Patio L Anchor Bolt	Concrete anchor	N/A	N/A	N/A
HP LDS	Lateral / Longitudinal Whole House System	Anchor with 10" diameter top plate stabilizer plate with U bolt I-beam connectors lateral and longitudinal struts	N/A	N/A	N/A

MINUTE MAN ANCHORS
305 West King Street
East Flat Rock, North Carolina 28726
Phone # 828-692-0256
951-387-1927

Email: cayllon@minutemanproducts.com

MODEL #	IDENTIFICATION	DESCRIPTION	Soil Class	Working Load	Ultimate Load
MMA 2	Galvanized Auger Anchor	5/8" x 48" rod, double bold head with a single 6" disc	4a	3,150	4,725
MMA 4	Galvanized Auger Anchor	¾" x 48" rod, double bolt head with a single 6" disc	4a	3,150	4,725
MMA 75	Galvanized Auger Anchor	¾" x 60" rod, double bolt head with a single 7" disc	4b	4,000	6,000
MMA 86	Galvanized Auger Anchor	¾" x 60" rod, double bolt head with a single 8" disc	4b	4,000	6,000
MMA 14	Galvanized Concrete Anchor	5/8" x 10" rod with a 3" turn on the end. Use with concrete slab (wet)	Concrete	3,150	4,725
MMA 42	Galvanized Concrete Anchor	Swivel head. Use with concrete slab (wet)	Concrete	3,150	4,725
MMA 18	Galvanized Tension Device	Double head tension device w/bolt hole in bottom of yoke for use with expansion bolt in concrete slab (dry)	N/A	3,150	4,725
MMA 22	Galvanized Tension Device	Double head tension device adapter	N/A	3,150	4,725
MMA SD2	Galvanized Stabilizer Plate	18" wide x 13.5" center x 7 ½" on the sides	N/A	3,150	4,725
MMA	Strapping – ANSI A225.1 & ASTM 3953-91	1 ¼" x .035" galvanized steel strapping, .60 zinc coating each side	N/A	3,150	4,725
MMA-S	Strap (crimp) seal	1 ¼" wide x 2 1/8" long	N/A	3,150	4,725

MINUTE MAN ANCHORS, continued...**305 West King Street****East Flat Rock, North Carolina 28726**

MODEL #	IDENTIFICATION	DESCRIPTION	Soil Class	Working Load	Ultimate Load
MMA	Square shoulder bolt	3 ¾" x 5/8" knurled split bolt	N/A	3,150	4,725
MDP-16	Pier	12" to 16" with 4" adjustment height – head locks to I-beam	N/A	N/A	N/A
MDP-20	Pier	12" to 20" with 4" adjustment height – head locks to I-beam	N/A	N/A	N/A
MDP-24	Pier	20" to 24" with 4" adjustment height – head locks to I-beam	N/A	N/A	N/A
MDP-28	Pier	24" to 28" with 4" adjustment height – head locks to I-beam	N/A	N/A	N/A
MDP-32	Pier	28" to 32" with 4" adjustment height – head locks to I-beam	N/A	N/A	N/A
MMA-31	Longitudinal Beam Clamp	Zinc coated longitudinal beam clamp 6" x 6 ¾" x 7 gauge w/8 ½" x ½" grade 5 bolts/washers	N/A	3,183	4,225
MMA-33	Locking Frame Clamp II	2" X 7 ¾" X 7 gauge and 2" x 5 1/8" x 7 gauge assembled lock frame clamp II with Florida Strap	N/A	3,150	4,225
MMSPP	Longitudinal Stabilizing System	20" x 20" x 1" Galvanized steel base pad	ALL	N/A	26,400
MMLBC	Beam Clip with above system	3 ¾" x 6" x 7 gauge	N/A	N/A	N/A

MINUTE MAN ANCHORS, continued...**305 West King Street****East Flat Rock, North Carolina 28726**

MODEL #	IDENTIFICATION	DESCRIPTION	Soil Class	Working Load	Ultimate Load
MMLBT	Brace with above system	1 ½" Brace tube length varies by pier height	N/A	N/A	N/A
MMA-71	Corner Tie	2" x 3" x 7 gauge corner tie with radius clip and Florida strapping	N/A	3,150	4,224
MMA-98	Galvanized Auger Anchor w/Stabilizer	¾" rod x 48" w/dual 6" disc, anchor has attached stabilizer head and plate	4b	3,150	4,725
MMA-99	Galvanized Auger Anchor w/Stabilizer	¾" rod x 60" w/dual 8" disc, anchor has attached stabilizer head and plate	4b	4,000	6,000
EZASTS	Adjustable Support Tube System	Galvanized square tubes and beam clip	ALL	N/A	27,600
MMA-SD3	Steel Pier Pad	2.75 sq. ft. / 11 gauge galvanized pad steel beam clips	N/A	N/A	N/A
MMA-CAF	Concrete Anchor Flange (dry)	Galvanized flange for mounting longitudinal & lateral braces to freshly poured concrete slab	N/A	N/A	N/A
MMA-CFW	Concrete Anchor Flange (wet)	Galvanized flange for mounting longitudinal & lateral braces to freshly poured concrete	N/A	N/A	N/A
MMA-LLBS	Kit	Lateral Hardware and Longitudinal Struts	N/A	N/A	N/A

MOBILE HOME SAFETY PRODUCTS
dba Oliver Technologies, Inc.
P.O. Box 9
Hohenwald, Tennessee 38462-0009
Phone # 1800-284-7437 *122
Bvalente@olivertechnologies.com

MODEL #	IDENTIFICATION	DESCRIPTION
OT486A	Galvanized Auger Anchor	5/8" x 48" rod, double bolt head with a single 6" disc
OT486B	Galvanized Auger Anchor	3/4" x 48" rod, double bolt head with a single 6" disc
OT607B	Galvanized Auger Anchor	3/4" x 60" rod, double bolt head with a single 7.5" disc
OTCADG	Galvanized Dry Set Concrete Anchor	Double bolt anchor head w/5/8" x 3" expansion bolt
OTCAWG5	Galvanized L-Hook Concrete Anchor	7" x .646" rod, double bolt head with a L-hook
OTMSP-1	Galvanized Metal Stabilizer Plate	18" wide x 13 1/2" depth
OTMSPIG	Galvanized Metal Stabilizer Plate	18" wide x 13 1/2" depth x 7 1/2" side – 12 gauge.
1055-19	Plastic Stabilizer Plate	.742" (thickness at top) x 9.95" (width) x 24" (length)
2410	Plastic Wedge (OTI) (ABS)	3.5" x 6.0" x 0.946"
1055-11	Adjustable Outrigger	Bracket, pipe and screw adjustment
OT2001	Swivel Frame Clamp	3/16" x 2" galvanized upper and lower jaws for clamping the I-beam
OTSFT	Swivel Frame Clamp	A-36 Galvanized
OT2002	Sidewall Strap Connector	G-40 galvanized 7 gauge connector to hook sidewall brackets

MOBILE HOME SAFETY PRODUCTS, continued...
dba Oliver Technologies, Inc.
P.O. Box 9
Hohenwald, Tennessee 38462

MODEL #	IDENTIFICATION	DESCRIPTION
O.T.I	Crimp Seal	Galvanized crimp seal 1.39" x 2.18"
OT	Strapping	1 ¼" x 0.0399" galvanized strapping .60oz per sq ft
OT	Galvanized split bolt	5/8" x 3" x 5/8" sq. shoulder with hexagon head, standard national thread, shaft saw cut
OTQC	Sidewall Quick Strap Connector	A-36/Galvanized .1793" thick sq. hole in clip head
1101 V	All Steel Foundation System	Longitudinal Stabilizing & Lateral Bracing System
1101CVW	Wet Bracket	Concrete Full System
1101 CVD	Dry Set Bracket	Concrete Full System
1101-W-CPCA	Wet Set Bracket	Concrete Longitudinal System
1101-D-CPCA	Dry Set Bracket	Concrete Longitudinal System
1101-W-TACA	Wet Set Bracket	Concrete Transverse System
1101-D-TACA	Dry Set Bracket	Concrete Transverse System
1055-14	Plastic Foundation Pad	16" x 16"
1055-10	Plastic Foundation Pad	16" x 16"
1055-8	Plastic Foundation Pad	16" x 18"
1055-23	Plastic Foundation Pad	16" x 18 ½" (rounded)(2 sq. ft.)
1055-9	Plastic Foundation Pad	18 ½" x 18 ½" x 15/16"
4148-4	Plastic Foundation Pad	13 ¼" x 26 ¼" x ¾"
1055-16	Plastic Foundation Pad	17" x 22" x 1 1/8"
1055-7	Plastic Foundation Pad	20" x 20" x 7/8"
1055-21	Plastic Foundation Pad	17 ½" x 22 ½"
1055-17	Plastic Foundation Pad	17 ½" x 25 ½" x 1 1/8"
1055-13	Plastic Foundation Pad	24" x 24"
1055-22	Plastic Foundation Pad	21.13" x 29.13" (rounded)
1055-20	Plastic Foundation Pad	23 ¼" x 31 ¼"
1055-26	Plastic Foundation Pad	24" x 24"

MOBILE HOME SAFETY PRODUCTS continued...
dba Oliver Technologies, Inc.
P.O. Box 9
Hohenwald, Tennessee 38462

MAXIMUM PIER LOADS IN POUNDS BASED ON SOIL VALUES

Configuration	Pad Area (sq. ft.)	1,000 lb. soil	1,500 lb. soil	2,000 lb. soil	2,500 lb. soil	3,000 lb. soil	Remarks Max.
16" x 16"	1.77	1,770	2,650	3,450	4,420	5,310	5,310
16" x 16"	1.78	1,780	2,660	3,560	4,430	5,340	5,320
16" x 18"	2	2,000	3,000	4,000	5,000	6,000	6,000
16" x 18 ½" (rounded)	2	2,000	3,000	4,000	5,000	6,000	6,000
18 ½" x 18 ½" x 15/16"	2.36	2,360	3,550	4,730	5,910	7,090	7,090
18 ½" x 18 ½" x ¾"	2.375	2,375	3,563	4,750	5,598	5,598	5,600
13 ¼" x 26 ¼"	2.4	2,375	3,563	4,750	5,938	6,400	6,400
17" x 22"	2.5	2,500	3,750	5,000	6,250	7,500	7,500
20" x 20"	2.75	2,750	4,125	5,500	6,875	8,250	8,250
17 ½" x 22 ½" (rounded)	3	3,000	4,500	6,000	7,500	9,000	9,000
17 ½" x 25 ½"	3	3,000	4,500	6,000	7,500	9,000	9,000
24" x 24"	4	4,000	6,000	8,000	8,000	8,000	8,000
21.13" x 29.13" (rounded)	4	4,000	6,000	8,000	8,000	8,000	8,000
23 ¼" x 31 ¼"	4.698	4,698	7,047	8,000	8,000	8,000	8,000

MOBILE HOME SAFETY PRODUCTS
dba Oliver Technologies, Inc.
P.O. Box 9
Hohenwald, Tennessee 38462

Configuration	Pad Area (sq. ft.)	1,000 lb. soil	1,500 lb. soil	2,000 lb. soil	2,500 lb. soil	3,000 lb. soil	Remarks Max.
16" x 16"	1.77	1,770	2,650	3,450	4,420	5,310	5,310
16" x 16"	1.78	1,780	2,660	3,560	4,430	5,340	5,320
16" x 18"	2	2,000	3,000	4,000	5,000	6,000	6,000
16" x 18 ½" (rounded)	2	2,000	3,000	4,000	5,000	6,000	6,000
18 ½" x 18 ½" x 15/16"	2.36	2,360	3,550	4,730	5,910	7,090	7,090
18 ½" x 18 ½" x ¾"	2.375	2,375	3,563	4,750	5,598	5,598	5,600
13 ¼" x 26 ¼"	2.4	2,375	3,563	4,750	5,938	6,400	6,400
17" x 22"	2.5	2,500	3,750	5,000	6,250	7,500	7,500
20" x 20"	2.75	2,750	4,125	5,500	6,875	8,250	8,250
17 ½" x 22 ½" (rounded)	3	3,000	4,500	6,000	7,500	9,000	9,000
17 ½" x 25 ½"	3	3,000	4,500	6,000	7,500	9,000	9,000
24" x 24"	4	4,000	6,000	8,000	8,000	8,000	8,000
21.13" x 29.13" (rounded)	4	4,000	6,000	8,000	8,000	8,000	8,000
23 ¼" x 31 ¼"	4.698	4,698	7,047	8,000	8,000	8,000	8,000

PAD CONFIGURATIONS

Pad Description (Pyramid Footer Configuration)	Pad Area (sq. ft.)	1,000 lb. soil	2,000 lb. soil	3,000 lb. soil
(2) 13 14" x 26 ¼" as a base and (1) 20" x 20" on top	4.8	4,800	9,600	N/A
Three (3) 17" x 22"	5	5,000	10,000	N/A
Three (3) 17 ½" x 25 ½"	6	6,000	12,000	N/A

CAP BOARDS

MODEL #	IDENTIFICATION	DESCRIPTION
OT1CB1	Plastic Cap Board	1" x 8" x 16"
OT1CB2	Plastic Cap Board	2" x 8" x 16"

The cap boards were test on CMU pier (C90) with either a single or double stacked cap boards.

SEDCO PIER INC.
33320 Mission Trail
Wildomar, CA 92595
Phone # 828-692-0256
951-387-1927

Email: cayllon@minutemanproducts.com

MODEL	IDENTIFICATION	DESCRIPTION
BP2424	Polypropylene Plastic & Fibrous Glass	24.0" x 24.0" x 1.0" (Nominal)

Pad Configuration	Soil Bearing Value	Maximum Allowable Load
24" x 24"	1000 lbs. / sq. foot	2778 lbs.
Double Column Stacked*	1500 lbs. / sq. foot	4167 lbs.
	2000 lbs. / sq. foot	5556 lbs.
	3000 lbs. / sq. foot	8333 lbs.

***NOTE: 24" x 24" Base pads are approved for double column stacking only.**

MODEL	IDENTIFICATION	DESCRIPTION
BP2020	Polypropylene Plastic & Fibrous Glass	20.0" x 20.0" x 1.0" (Nominal)

Pad Configuration	Soil Bearing Value	Maximum Allowable Load
20" x 20"	1000 lbs. / sq. foot	2778 lbs.
Single Column Stacked	1500 lbs. / sq. foot	4167 lbs.
	2000 lbs. / sq. foot	5556 lbs.
	3000 lbs. / sq. foot	8000 lbs.

Pad Configuration	Soil Bearing Value	Maximum Allowable Load
20" x 20"	1000 lbs. / sq. foot	2778 lbs.
Double Column Stacked	1500 lbs. / sq. foot	4167 lbs.
	2000 lbs. / sq. foot	5556 lbs.
	3000 lbs. / sq. foot	8333 lbs.

SEDCO PIER INC., continued...

**33320 Mission Trail
Wildomar, CA 92595**

MODEL	IDENTIFICATION	DESCRIPTION
BP 1723	Polypropylene Plastic & Fibrous Glass	17.0" x 23.0" x 1.0" (Nominal)

Pad Configuration	Soil Bearing Value	Maximum Allowable Load
17" x 23"	1000 lbs. / sq. foot	2720 lbs.
Single Column Stacked	1500 lbs. / sq. foot	4080 lbs.
	2000 lbs. / sq. foot	5440 lbs.
	3000 lbs. / sq. foot	8000 lbs.

Pad Configuration	Soil Bearing Value	Maximum Allowable Load
17" x 23"	1000 lbs. / sq. foot	2720 lbs.
Double Column Stacked	1500 lbs. / sq. foot	4080 lbs.
	2000 lbs. / sq. foot	5440 lbs.
	3000 lbs. / sq. foot	8146 lbs.

MODEL	IDENTIFICATION	DESCRIPTION
BP 1818	Polypropylene Plastic & Fibrous Glass	18.0" x 18.0" x 1.0" (Nominal)

Pad Configuration	Soil Bearing Value	Maximum Allowable Load
18" x 18"	1000 lbs. / sq. foot	2377 lbs.
Single Column Stacked	1500 lbs. / sq. foot	3565 lbs.
	2000 lbs. / sq. foot	4753 lbs.
	3000 lbs. / sq. foot	7130 lbs.

Pad Configuration	Soil Bearing Value	Maximum Allowable Load
18" x 18"	1000 lbs. / sq. foot	2377 lbs.
Double Column Stacked	1500 lbs. / sq. foot	3565 lbs.
	2000 lbs. / sq. foot	4753 lbs.
	3000 lbs. / sq. foot	7130 lbs.

SEDCO PIER INC., continued...**33320 Mission Trail
Wildomar, CA 92595**

MODEL	IDENTIFICATION	DESCRIPTION
BP 1616	Polypropylene Plastic & Fibrous Glass	16.0" x 16.0" x 1.0" (Nominal)

Pad Configuration	Soil Bearing Value	Maximum Allowable Load
16" x 16"	1000 lbs. / sq. foot	1778 lbs.
Single Column Stacked	1500 lbs. / sq. foot	2667 lbs.
	2000 lbs. / sq. foot	3556 lbs.
	3000 lbs. / sq. foot	5333 lbs.

Pad Configuration	Soil Bearing Value	Maximum Allowable Load
16" x 16"	1000 lbs. / sq. foot	1778 lbs.
Double Column Stacked	1500 lbs. / sq. foot	2667 lbs.
	2000 lbs. / sq. foot	3556 lbs.
	3000 lbs. / sq. foot	5333 lbs.

TIE DOWN ENGINEERING
255 Villanova Drive SW
Atlanta, Georgia 30336
Phone # 800-241-1806
Email: Support@tiedown.com

MODEL #	IDENTIFICATION	DESCRIPTION	Soil Class	Working Load	Ultimate Load
M12H-5/8"	Galvanized Auger Anchor	5/8" x 48" rod, double head with a single 6" disc	4a	3,150	4,725
M12H-3/4"	Galvanized Auger Anchor	3/4" x 48" rod, double head with a single 6" disc	4a	3,150	4,725
M607	Galvanized Auger Anchor	3/4" x 60" rod, double head with a single 7" disc	4b	4,000	6,000
M1T2	Galvanized Patio Slab Anchor	3/4" x 10" threaded rod with flat washer & nut, double head	Concrete	3,150	4,725
M1J2	Galvanized Slab Anchor	5/8" x 10" "J" rod anchor with double bolt head	Concrete	3,150	4,725
2M58SA	Galvanized Slab Anchor Bolt	5/8" x 3" expansion bolt with sleeve "TD" stamped in head	Concrete	3,150	4,725
M1CS2	Galvanized Double Head Device (only)	Double head tension device with bolt hole in the bottom of the yoke	N/A	3,150	4,725
M1S2	Galvanized Double Head Swivel Adapter	Double head tension device with swivel adapter	N/A	3,150	4,725
59286	Stabilizer Plate (G-120 Steel)	Galvanized steel 17 1/2" (width) x 13 3/4" x 12 gauge (90° top bend)	4b	4,000	6,000
59293	Stabilizer Plate (Plastic)	8" x 24" x 1 3/8" at top			

TIE DOWN ENGINEERING, continued...

**255 Villanova Drive SW
Atlanta, Georgia 30336**

MODEL #	IDENTIFICATION	DESCRIPTION	Soil Class	Working Load	Ultimate Load
Tie Down Strapping	ASTM Standard Spec. D3953-97	1-1/4" x .035" Galvanized steel strapping G-120	N/A	3,150	4,725
MGRB	Roof Bracket	Galvanized Roof Bracket	N/A	N/A	N/A
TD	Slotted Bolt	2-3/4" x 5/8"	N/A	3,150	4,725
TDE	Crimping Seal	1.410" x 2-1/4"	N/A	3,150	4,725
59010	Longitudinal Stabilization Device L ² SD	Metal pads, bracket with hardware metal struts	N/A	7,000	10,000
59002	Swivel Strap Connector	2.60" x 4.875" x 10 gauge w/1 1/4" x .035"	N/A	3,150	4,725
59003	Beam Connector for a 3" I-beam	2.5" x 6.300" x 10 gauge beam connector used with 59002 & 59242	N/A	3,150	4,725
59004	Beam Connector for a 4" I-beam	2.5" x 7.300" x 10 gauge beam connector used with 59002 & 59242	N/A	3,150	4,725

TIE DOWN ENGINEERING, continued...

**255 Villanova Drive SW
Atlanta, Georgia 30336**

MODEL #	IDENTIFICATION	DESCRIPTION	Soil Class	Working Load	Ultimate Load
Tie Down Strapping	ASTM Standard Spec. D3953-97	1-1/4" x .035" Galvanized steel strapping G-120	N/A	3,150	4,725
MGRB	Roof Bracket	Galvanized Roof Bracket	N/A	N/A	N/A
TD	Slotted Bolt	2-3/4" x 5/8"	N/A	3,150	4,725
TDE	Crimping Seal	1.410" x 2-1/4"	N/A	3,150	4,725
59010	Longitudinal Stabilization Device L ² SD	Metal pads, bracket with hardware metal struts	N/A	7,000	10,000
59002	Swivel Strap Connector	2.60" x 4.875" x 10 gauge w/1 1/4" x .035"	N/A	3,150	4,725
59003	Beam Connector for a 3" I-beam	2.5" x 6.300" x 10 gauge beam connector used with 59002 & 59242	N/A	3,150	4,725
59004	Beam Connector for a 4" I-beam	2.5" x 7.300" x 10 gauge beam connector used with 59002 & 59242	N/A	3,150	4,725
59005	Adj. Beam Connector for up to a 8" double. I-beam	2.5" x 9.850" x 10 gauge used with 59002 & 59242 grade 5 bolt and nut	N/A	N/A	N/A
59009	Longitudinal Beam Connector	1 1/2" x 6 1/2" x 1/4" used as pair with 59002	N/A	N/A	N/A
59011	Longitudinal Beam Clamp	6" x 6 3/4" x 7 gauge frame clamp with eight (8) grade 5 bolts and nuts	N/A	N/A	N/A
59242	Universal Swivel Strap Connector	2.6 x 4.88 x 10 ga. with 1 1/4" x .035	N/A	3,150	4,725

TIE DOWN ENGINEERING, continued...

**255 Villanova Drive SW
Atlanta, Georgia 30336**

MODEL #	IDENTIFICATION	DESCRIPTION
59036	Lateral (Vector) Kit w/pads for concrete applications – single stacked block piers	17.25" x 11", 12 gauge galvanized pad, part # 59277 w/mounting brackets, hardware & parts 59276 and 59282
59049	Lateral (Vector) kit with pads for concrete applications – Double stacked block piers	17-1/4" x 18-3/5", 12 gauge galvanized pad, part #59273 with mounting brackets, hardware & parts 59282 with 59282
59273	Double block foundations pad for concrete	Use with Vector System
59277	Single block foundation pad for concrete	Use with Vector System
59024	Lateral Vector Hardware Kit (Use with 59271)	U-bolts, "U" shaped connectors & inside brackets
59026	Longitudinal L2SD Hardware Kit (w/59271)	6" x 6 3/4" x 7 gauge beam clips, "U" shaped plate connector, bolts and nuts for connections
59314	Vector Xi Pier System - 25.5"	Longitudinal /Lateral Stabilizing System
59317	Vector Xi Pier System- 36" Xi Concrete and Concrete Block System	Longitudinal/Lateral Stabilizing System
59306	Xi Block System (Ground)	Longitudinal and Lateral Stabilizing System
59307	Xi Block System (Concrete)	Longitudinal and Lateral Stabilizing System

TIE DOWN ENGINEERING, continued...

**255 Villanova Drive SW
Atlanta, Georgia 30336**

MODEL #	IDENTIFICATION	DESCRIPTION
59321	Vector Xi Pier System – 12"	Longitudinal/Lateral Stabilizing System
59363	59361 Outrigger – 2 Per Pk.	24" Outrigger/Diagonal Strut
59365	59362 Outrigger – 2 Per Pk.	36" Outrigger/Diagonal Strut
59300	Plastic Foundation Pad	16" x 18" x 1"
		16" x 22 ½" x 1"
59301	Plastic Foundation Pad	16" x 22 ½" x 1"
59302	Plastic Foundation Pad	17 3/16" x 25 3/16" x 1 1/8"
59303	Plastic Foundation Pad	24" x 24"
59271	Galvanized Metal Foundation Pad	19.418" x 22.25" x 12 gauge used with 59002 and grade 5 bolt and nut

MAXIMUM PIER LOADS IN POUNDS BASED ON SOIL VALUES

Configuration Single Stack Pier	Pad Area (sq. ft.)	1,000 lb. soil	2,000 lb. soil	3,000 lb. soil
16" x 18" x 1"	2	2,000	4,000	6,000
16" x 22 ½" x 1"	2.5	2,500	5,000	7,500
17 3/16" x 25 3/16" x 1 1/8"	3	3,000	6,000	N/A
19.418" x 22.5" x 10 gauge	3	3,000	6,000	N/A
24" x 24"	4	4,000	8,000	N/A

Configurations above may be used to replace a home manufacturer's recommended concrete base pad.

PAD CONFIGURATIONS

Pad Description (Pyramid Footer Configuration)	Pad Area (sq. ft.)	1,000 lb. soil	2,000 lb. soil	3,000 lb. soil
Two 16" x 22 ½" pads as a base and one of the same size on top	5.00	5,000	10,000	N/A
Two 17 3/16" x 25 3/16" pads as a base and one of same size on top	6.00	6,000	12,000	N/A