

**MISSOURI PUBLIC SERVICE COMMISSION
MANUFACTURED HOUSING PROGRAM
APPROVAL OF ANCHORING SYSTEMS**

TIE DOWN ENGINEERING

800-241-1806

MODEL/MARK	DESCRIPTION	SOIL TYPE
MI2H	5/8" X 48" Double Head Anchor w/6" Auger	4
MI2H	3/4" X 48" Double Head Anchor w/6" Auger	4
59092	3/4" X 36" Deep Set Stabilizer Anchor w/6" & 4" Auger	350 in. lbs. min. at 12" & 36"
MI22	5/8" X 30" Double Head Anchor w/2 4" Augers	2
MI22	3/4" X 30" Double Head Anchor w/2 4" Augers	2
MIT2	3/4" Double Head Threaded Rod Patio Anchor	Concrete
MIJ2	5/8" x 12" Double Head J-Rod Slab Anchor	Concrete
MICS2	Patio Anchor with Expansion Bolt	Concrete
59091	Deep-Set Plate with 30" double 4" helix anchor	525 in.lbs and above
59291	Quik-Set Plate with 30" double 4" helix anchor	525 in.lbs and above
59002	Swivel Strap Connector	
59003	3" Swivel Strap Frame Connector	
59004	4" Swivel Strap Frame Connector	
59005	Adjustable Swivel Strap Frame Connector	
59292	Lateral Stabilizer Plate	
MGRB	Galvanized Roof Bracket	
BCS	Crimping Seal for 1 1/4" Strap	
MBU	Galvanized Strap Buckle	
MBUS	Special Galvanized Strap Buckle	
BISB	Slotted Bolt and Nut	
MS33,35,37,42,60,600	1 1/4" Galvanized Strap	
MHT6, 7, 8, 10, 12, 15	1 1/4" Frame Tie with Hook	
MBU6, 7, 8, 10, 12, 15	1 1/4" Frame Tie with Buckle	
LBC 59011	8 Bolt Gator Beam Clamp Longitudinal Beam Clamp	
LBC 58999	4 Bolt Gator Beam Clamp Longitudinal Beam Clamp	
Xi FOUNDATION SYSTEM		****
Xi 2 Lateral Stabilization (Foundation) System		*****
Xi 2 Longitudinal Stabilization (Foundation) System		*****
VECTOR DYNAMICS FOUNDATION SYSTEM		2, 3, 4
VECTOR DYNAMICS FOUNDATION SYSTEM		*5
VECTOR DYNAMICS FOUNDATION SYSTEM FOR MULTI SECTION - FOR POURED CONCRETE - PER INSTALLTION INSTRUCTIONS		*5
VECTOR DYNAMICS FOUNDATION SYSTEM FOR SINGLE SECTIONS - FOR POURED CONCRETE - PER INSTALLTION INSTRUCTIONS		**2, 3, 4
VECTOR DYNAMICS FOUNDATION SYSTEM FOR SINGLE SECTIONS - FOR POURED CONCRETE - PER INSTALLTION INSTRUCTIONS		***5

STANDARDS FOR INSTALLATION:

- 1) Anchors and all components must be installed per manufacturer's instructions.
 - 2) Anchors are approved for the designed soil type only.
 - 3) Consult manufactured home set up instructions for number of frame tie downs, over the roof tie downs, and tie down spacing.
- * Approved for soil with test probe reading of 50 inch pounds and greater.
- ** Approved for pier height up to 56 inches per installation instructions and for soil with test probe reading of 175 in. lb. and greater. For soil 50 inch pounds and greater per installation instructions.
- ***Approved for sub-soil 50 inch pounds or greater with 48 inch anchors and 6 inch helix and stabilizer plates installed according to manufacturers installation instructions.
- ****Approved for soil with test probe reading of 175 inch pounds and greater. Requires additional anchors within two feet of each corner of the home as prescribed in instructions.
- ***** Must be installed according to the installation instructions.
- ***** Requires ground anchors approved for the soil classification within two feet of each corner of all single section homes in addition to the systems.
- ***** In addition when systems are used on any home shear wall anchors, marriage line anchors, etc. must be installed per the manufacturer instructions and the anchor must be approved for the soil.

*****Ground Set Pans required to be set with top of pan at frost grade & can not be installed in soil under 200 inch lbs.

Soil Classifications: (1) Solid Rock, (2) 550+ inch lbs, (3) 350-549 inch lbs, (4) 200-349 inch lbs; under 200 inch lbs is unclassified soil.

DATE: November 27, 2006

Ron Pleus

Ron Pleus, Director
Manufactured Housing and Modular Units Program