
Supplier: Br549 Mfg Spec

Products indicated were reviewed and approved subject to the manufacturer's installation/instruction criteria in accordance to Minnesota State Building Code 1350.2500 - .3200. MSBC 1350.1500

Product Make	Description	Information
Mfg Spec		

Supplier: CM1003 Imperial Stamping Company

Robert I Chidister
4801 Middlebury St.

Elkhart IN 46516-

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Product Make	Description	Information
MHA33	Frame Buckle	
MHA35	Roof Bracket	
MHA37	Strapping	
MHA38	Strapping	
MHA39L	Strapping	
MHA-S/B	Split Bolt	
MHASB10	3/4" x 48" w 2-4" Helix	Soil Types 2,3,4
MHASB12	3/4" x 30" w 2-4" Helix	Soil Types 2,3 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
MHASB20	Solid Eye Adaptor	Connector
MHASB21	Patio Anchor	Slab
MHASB22	Patio Anchor	Slab
MHASB24	Threaded Cement Anchor	Slab
MHASB26	Hook Anchor	Slab
MHASB3	11/16" x 48" w/6" Helix	Soil Types 2,3,4
MHASB4	5/8" x 48" w/6" Helix	Soil Types 2,3,4
MHASB6	5/8" x 30" w/2-4" Helix	Soil Types 2,3 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
MHASB8	3/4" x 48" w/6" Helix	Soil Types 2,3,4

Supplier: CM1005 Minute Man Anchors, Inc.

Scott Moreno
 305 West King Street
 East Flat Rock NC 28726-

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Product Make	Description	Information
MMA	Strap Seal	Split Bolt
MMA - 55	Anchor and Stabilizer 3/4" x 50" w/2 - 4" helixes	Soil type 2,3,4
MMA CAF	Concrete Anchor Flange (use w/MMA LLBS)	
MMA LFT1	Longitudinal Flex Tube for LLBS Anchor System	Use appropriate length Flex Tube for pier block height.
MMA LFT2	60 Inch Lateral Flex Tube for concrete used with LLBS-99 1/2	For use with MMA LLBS-99 1/2 Designed for a maximum of 99-1/2 inch I-Beam frame spacing.
MMA LFT3	72 Inch Lateral Flex Tube for concrete.	For use with LLBS-112 designed for a maximum of 112 inch I-Beam frame spacing
MMA LLBS-112	Designed for frames in excess of 99 1/2 inch I-Beam Spacing, and a maximum of 112 inch I-Beam spacing.	Frost protected footings required. Minimum 1000 PSF (Class 4A) or higher soils are required. Use MMA LFT3 (72" Lateral Flex Tube).
MMA LLBS-99 1/2	Longitudinal and Lateral Bracing System designed for a Maximum of 99 1/2 I-Beam spacing.	Frost protected footings are required. 1000 PSF (Class 4A) or higher soils are required. Use MMA LFT2 (60" Lateral Flex Tube)
MMA SD3	Steel Pier Pan (use w/MMA LLBS)	Frost Free Footings are required
MMA14	5/8" x 8" L Rod - Double Head	Wet Concrete Anchor
MMA-14S	5/8" x 6" L Rod - Double Head	Wet Concrete Anchor (Short)
MMA16	5/8" x 28" Threaded rod Double Head Expanding	Rock
MMA18	TH-DH-S (Specific Concrete Slab Requirements for use)	Drilled into Hardened Concrete
MMA2	5/8" x 48" w/6" Helix Double Head 650 DH S	Soil Types 2,3,4
MMA23	Roof Bracket	
MMA33	Locking Frame Clamp w/ strap	
MMA4	3/4" x 48" w/6" Helix Double Head 650H-DH-S	Soil Types 2,3,4
MMA42	5/8 x 8" J-Rod - Double Head Model No 210 JDH	Wet Concrete Anchor
MMA-42S	5/8" x 6" J Rod - Double Head	Wet Concrete Anchor (short)
MMA57/C4	7/8" x 34" rod w/4" & 6" helix NU cap	Soil Types 2,3,4 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
MMA6	3/4" x 30" w/2-4" Helix Double Head 4430 DH-S	Soil Types 2,3 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
MMA650EZ	MMA96 - 48" Anchor	Soil Types 1,2,3
MMA75	60" Double 3/4" rod	Soil Type 2
MMA92	3/4" x 30" w/2-4" helix & stbzb cap EZ 4430-DH 3/4	Soil Types 2,3 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
MMA94	3/4" x 34" w/6" helix & stbzb cap EZ 636-DH 3/4	Soil Types 2,3 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
MMA96	Model MMA650EZ	Soil Class 1,2,3
MMA-SD2	12" Stabilizer Plate	
MMA-SEALS		
MMP10	10" Pier	
MMP12	12" Pier	
MMP14	14" Pier	
MMP16	16" Pier	
MMP18	18" Pier	
MMP20	20" Pier	
MMP22	22" Pier	
MMP24	24" Pier	

MMP26	26" Pier	
MMP28	28" Pier	
MMP30	30" Pier	
MMP6	6" Pier	
MMP8	8" Pier	
NC1	Stablizer Cap for MMA6 and MMA57	
SBN	Galvanized Strapping	1,1/4"x.035

Supplier: CM1014 Tie Down Engineering

Knute Chauncey
 5901 Wheaton Drive
 Atlanta GA 30336-

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Product Make	Description	Information
48608	6 ft Concrete Anchor Strut	For Xi2 System
48609	5 ft Concrete Anchor Strut	For Xi2 System
59002	Frame Connector	
59003	3" Hook used with 59002	
59004	4" Hook used with 59002	
59005	8" Hook used with 59002	
59006	Vector, DS blocks, poured concrete	
59008	Vector SS blocks, poured concrete	
59009	Angle frame connector bracket used with 59002	
59011	Longitudinal beam clamp	
59012	39 inch longitudinal strut	For LDS System
59013	44 inch longitudinal Strut	For LDS System
59016	30 inch longitudinal Strut	For LDS System
59018	Vector System 2000	Frost free footings are required
59023	Longitudinal hardware kit for concrete	Use with 59006/59049 & 59008/59036
59024	Vector hardware kit for 59271	
59026	LSD hardware kit for 59271	
59027	Xi2 Concrete Hardware kit (Dry)	2 per Box
59036	Single Block Concrete System	Assembly 59008 with straps & Bolts
59049	Double Block Concrete System	Assembly 59006 with straps & Bolts
59080 / M12H5/8	Anchor 5/8" x 47" rod w/6" helix	Soil Type 2,3,4
59085 / M12H3/4	Anchor 3/4" x 47" rod w/6" helix	Soil Type 2,3,4
59086 / MI 48	Anchor 3/4"x48" with Qty (2) 4" Helix	class 2a,2b,3soil
59090 / MI22 5/8	Anchor 5/8" x 30" rod w/2-4" helixes	Soil Type 2,3,4 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
59095 / MI22 3/4	Anchor 3/4" x 30" rod w/2-4" helixes	Soil Type 2,3,4 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
59097 - MI 60	Anchor 3/4" x 60" w/ 2- 4 in helix	Painted
59099 / MI 607	Anchor 3/4" x 60" w/7" helix	Galvanized
59100 / MIDH	Tension Head	
59109 & 59120 MI	Anchor 5/8" x 12 L anchor fixed or swivel hd	Slab anchor
59111 / MRA	Cross Drive Anchor	Must be installed in solid rock within 1 inch below the anchor base, or Verified CLASS 1 SOIL = 4000 PSF Minimum
59120	Anchor 5/8 x 12 L Anchor fixed or swivel hd	Slab Anchor
59123 / MIJ2	Anchor - J-Rod Concrete 8 " anchor w/swivel head	
59125 / MICS2	Anchor - Concrete Anchor	
59128 / MI42 3/4	Anchor 3/4" x 42" w/2-4" helix	Painted
59135 / BISB	Tension Bolt	
59147 / MIJ2	Anchor - J-Rod Concrete 8 " anchor w/swivel head	
59150 / MS35	1 1/4" Galvanized Strapping 35'-0"	
59155 / MS37	1 1/4" Galvanized Strapping 37'- 0"	
59163	Xi2 Concrete Longitudinal Hardware Kit	1 per Bag

59165 / MS60	1 1/4" Galvanized Strapping 60'- 0"	
59170 / MS600	1 1/4" Galvanized Strapping	
59263	Xi2 Concrete Longitudinal Hardware Kit	2 per Box
59285	Painted 17 1/2" Stabilizer Plate	class 2,3,4 soil
59286	Galvanized 17 1/2 " Stabilizer Plate	class 2,3,4 soil
59291	Stabilizer Plate	
59292	Anchor Stabilizer Plate	
59300	ABS Foundation Pads	2 sq ft
59301	ABS Foundation Pads	2.5. Sq ft
59302	ABS Foundation Pads	3 sq ft
59303	ABS Foundation Pads	4 sq ft
59307	Xi2 Concrete System with dry set bracket	Hardware and Lateral Strut
59327	Xi2 Concrete Hardware kit (Dry)	1 per Bag
59328	Xi2 Concrete System with wet set bracket	Hardware and Lateral Strut
59335	Xi2 Concrete Hardware kit (Wet)	1 per Bag
59347	7 ft Concrete Anchor Strut	For Xi2 System
59361	Adjustable Outriggers 14 " for 14 Wide See MFG Home instructions	Replaces perimeter support @ openin
59362	Adjustable Outriggers 36 " for 16 wide See MFG home instructions	Replaces perimeter support @ openin
59373 Xi2 HD Bra	Heavy duty joist bracket for the perimeter support, frost free ground and concrete strut assemblies.	Heavy Duty Bracket must be used for the MN Installations. Bracket is connected to 3 joists. Quantity of lag bolts per instructions
59391 Xi2 Ground	Strut assembly for ground set perimeter support system.	This system can only be used with the heavy duty joist bracket PN 59373
59392 Xi2 Concret	Strut assembly for concrete perimeter support system.	This system can only be used with the heavy duty joist bracket PN 59373
59725	Swivel head connector 59002 & 5 ft strap 59150	Assembly
59726	Swivel head connector 59002 & 6ft strap 59150	Assembly
59727	Swivel head connector 59002 & 7ft strap 59150	Assembly
59728	Swivel head connector 59002 & 8ft strap 59150	Assembly
59730	Swivel head connector 59002 & 10ft strap 59150	Assembly
59732	Swivel head connector 59002 & 12ft strap 59150	Assembly
59736	Swivel head connector 59002 & 16ft strap 59150	Assembly
59999	4 Bolt Longitudinal Beam Clamp	Swivel connector must be installed with this clamp . *See Tie Down instructions for maximum installation angles.
Deleted	deleted	
VDFS	Vector Dynamics Foundation Systems	Frost free footings are required.
Xi 2 Total Suprt Sy	Adjustable longitudinal/lateral support system	Frost free footings are required.

Supplier: CM1015 Style Crest Products

Bryan Kern
 PO Box 690
 Fremont OH 43420-

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Product Make	Description	Information
1 1/4" X .035	Galvanized Strapping	
30DH	3/4" x 29" rod w/2-4" helix	Soil Type 2 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
30DHC2 w/ASSD	3/4" x 29" rod w/2-4" helix and stabilizing plate	Soil Type 2 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
3646C234 w/4823	3/4" x 34" rd w/6" & 4" helix and stabilizing plate	Soil Type 2,3 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
36DH	3/4" x 34" rod w/ 6" helix	Soil Types 2,3 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
36SH	3/4" x34" rod w/ 6" helix	Soil Types 2,3 (Not for use in frost susceptible soils) Requires a Minnesota Engineered design.
481500	Bolt on frame connector	
481600	Bolt on frame connector	
48-CD-8	J hook	Slab
48SH	3/4" x 46" rod w/ 6" helix	Soil Types 2,3,4
DTH HEADw/HN5	Double Head w/ expanding bolt	Slab
M12H 3/4 w/59292	3/4" x 47" rod w/6" helix and stabilizing plate	Soil Types 2,3,4
M12H 5/8 w/59292	5/8" x 47" rod w/6" helix and stabilizing plate	Soil Types 2,3,4

Supplier: CM1016 Manufactured Housing Foundation System.

Lon Larson
562 Glenheather Drive
San Marcos CA 92069-

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Product Make	Description	Information
1055-11	Adjustable Outrigger	Same as Oliver Technologies Inc
1055-16	ABS Pads	
1055-17	ABS Pads	
1055-7	ABS Pads	
4148-4	ABS Pads	
4148-5	ABS Pads	
SPA 264-1	ABS Pads	

Supplier: CM1017 C & R Pier

Richard Clifton
275 South Rancho Ave.
Colton CA 92324-

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Product Make	Description	Information
18 1/2 X 18 1/2 Ab		
CRP-MJCP-PFS-1	Pier Stands	Rated Capacity 6000 lbs
PCI3852-2	Pier Stands	Rated Capacity 6000 lbs
PCI3852-6	Pier Stands	Rated Capacity 6000 lbs
PCI3852-9	Pier Stands	Rated Capacity 6000 lbs

Supplier: *CM1018 Hoffman Precast Concrete Products*

Brad
PO Box 1145
Johnston IA 50131-

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Product Make	Description	Information
Engineered per jo	Torque values per helix recorded. Stems braced	

Supplier: CM1019 Safety Support Systems, Inc.

Bob Salazar
2212 Ella Ct.
Grand Junction CO. 81505-

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Product Make	Description	Information
BIG FOOT	Support Stand	22" Max height

Supplier: CM1020 JM Products, Inc.

J. Micheal (Mike) Howard
680 County Road 1025 East
Toledo IL 62468-

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Product Make	Description	Information
JM12S,JMC,JM5-	Rigid Foundation Anchoring System	270# soil & better

Supplier: CM1021 Oliver Technologies Inc

Oliver Technologies Inc
 PO Box 58 467 Swan Ave
 Hohenwald TN 38462-

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Product Make	Description	Information
1055-11	Adjustable Outrigger	Same as Supplier CM1016 Pn 1055-11
1055-16-AIT-06-1	ABS Pad 17 x 22 = 360 sq in	1000 PFS soil = 2500 lb load max. 2000 PFS Soil = 5000 lb load max 3000 PFS Soil = 7500 lb load max
1055-16-AIT-06-1	ABS Pad 17.5 x 25.5 = 432 sq in	1000 PFS soil = 3000 lb load max. 2000 PFS Soil = 6000 lb load max 3000 PFS Soil = 9000 lb load max
1055-16-AIT-06-1	ABS Pad 21 x 29 = 576 sq in	1000 PFS soil = 4000 lb load max. 2000 PFS Soil = 8000 lb load max 3000 PFS Soil = 12000 lb load max
1055-16-AIT-06-1	ABS Pad 23.25 x 31.25 = 675 sq in	1000 PFS soil = 4694 lb load max. 2000 PFS Soil = 9388 lb load max 3000 PFS Soil = 9388 lb load max
1055-16-AIT-06-1	ABS Pad 16 x 16 = 256 sq in	1000 PFS soil = 1785 lb load max. 2000 PFS Soil = 3560 lb load max 3000 PFS Soil = 5333 lb load max
1055-16-AIT-06-1	ABS Pad 18.5 x 18.5 = 342 sq in	1000 PFS soil = 2375 lb load max. 2000 PFS Soil = 4750 lb load max 3000 PFS Soil = 7100 lb load max
1055-16-AIT-06-1	ABS Pad 20 x 20 = 400 sq in	1000 PFS soil = 2750 lb load max. 2000 PFS Soil = 5500 lb load max 3000 PFS Soil = 8250 lb load max
1055-16-AIT-06-1	ABS Pad 24 x 24 = 576 sq in	1000 PFS soil = 4000 lb load max. 2000 PFS Soil = 8000 lb load max 3000 PFS Soil = 8000 lb load max
1055-21	ABS Pad 17.5 x 22.5 = 384 sq in	1000 PFS soil = 2667 lb load max. 2000 PFS Soil = 5333 lb load max 3000 PFS Soil = 8000 lb load max
1055-23/AIT-06-10	ABS Pad 16x18.5 = 288 sq in	1000 PFS soil = 2000 lb load max. 2000 PFS Soil = 4000 lb load max 3000 PFS Soil = 6000 lb load max

