

Langendorf Supply Co., Inc.

4653 Crossroads Industrial Dr.
Bridgeton, Mo. 63044

Vibration Isolation & Seismic Restraints

Vibration Isolation & Seismic Restraints

Stock Catalog

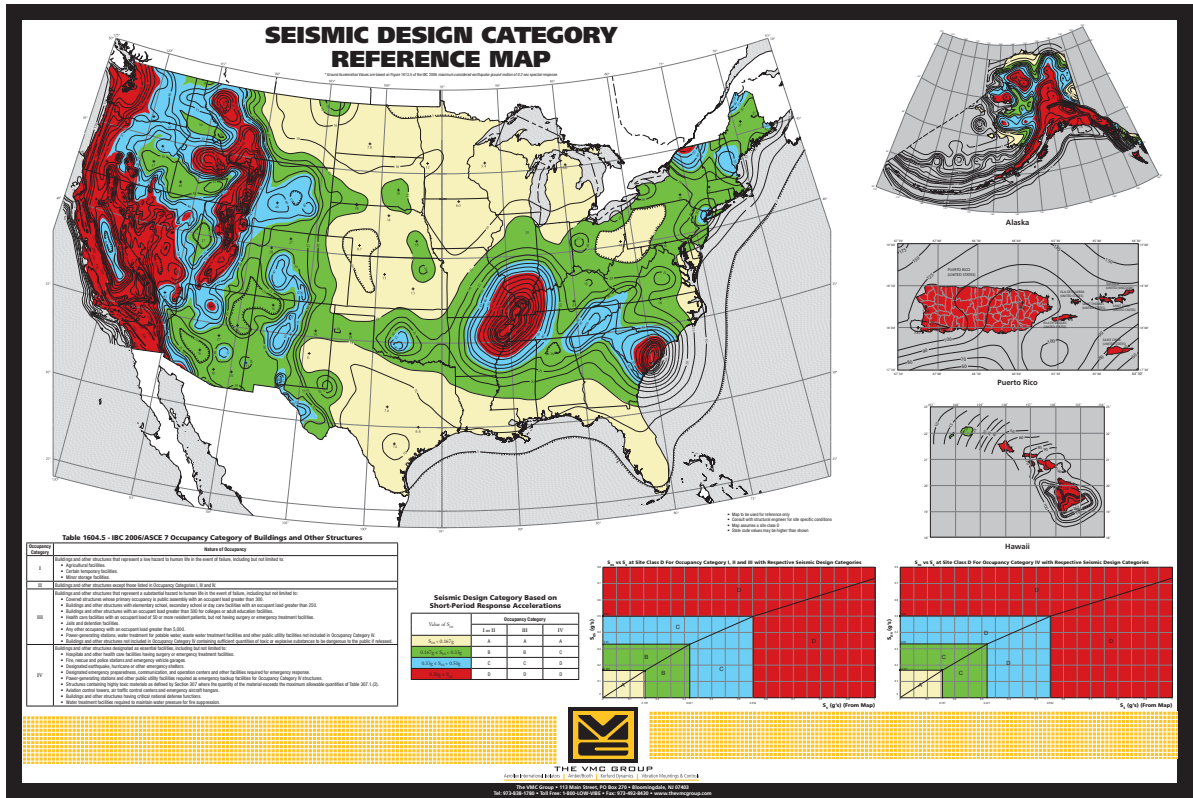
Vibration Isolation & Seismic Restraints

Phone: (314) 291-4892 Fax: (314) 291-7815



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Vibration Isolation & Seismic Restraints



Seismic Cable



MODEL	CABLE DIAMETER (IN)	ROLL LENGTH (FT)	DESCRIPTION
CABLE 1/8	1/8 - 7 X 19	500	GALVANIZED AIRCRAFT CABLE
CABLE 1/4	1/4 - 7 X 19	500	GALVANIZED AIRCRAFT CABLE



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Seismic Cable Kits

- Material: Cold Rolled Steel
- Hardware & Brackets Zinc Electroplate
- Field Torque 1/2" Lock Nuts to 75 Ft. Lbs.
- 1 Kit Consist of:
 - 2 Slotted Brackets
 - 2 Holed Brackets
 - 8 Bolts
 - 8 Serrated Flange Nuts
- Cable Sold Separately



MODEL	CEILING BRACKET HOLE DIA.	EQUIPMENT BRACKET HOLE DIA.	COLOR CODE
SB-125-02	11/16	11/16	YELLOW ZINC COATED
SB-250-01	11/16	5/8	CLEAR ZINC COATED

Seismic Single Arm Brace

- SAB-1 For Equipment & Steel Anchorage
- SAB-2 For Concrete Anchorage



SAB-1 SINGLE ARM BRACE SPACING GUIDE - .5G		
PIPE SIZE	SPACING (Ft.)	
	TRANSVERSE	LONGITUDINAL
1	40	80
1-1/4	40	80
1-1/2	40	80
2	40	80
1-1/2	40	80
3	40	80
4	40	80
5	40	40
6	40	40
8	40	40
10	40	40
12	30	30
14	20	20
16	20	20
18	20	20

SAB-2 SINGLE ARM BRACE SPACING GUIDE - .1G		
PIPE SIZE	SPACING (Ft.)	
	TRANSVERSE	LONGITUDINAL
1	40	80
1-1/4	40	80
1-1/2	40	80
2	40	80
1-1/2	40	80
3	40	80
4	40	80
5	40	40
6	40	40
8	20	20
10	20	20
12	10	10
14	10	10
16	10	10
18	N/A	N/A



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Vibration Isolation & Seismic Restraints

Type NRC Vibration Isolator

- Ribbed Elastomeric Face Sheets
- 1/2" Thick Sound/Vibration Absorbing Pad



AMPAD TYPE NRC VIBRATION ISOLATOR				
MODEL	SIZE (IN)	THICKNESS (IN)	LOAD RANGE (LBS)	DEFLECTION (IN)
NRC 2X2	2X2	1	20-240	0.025 TO 0.18
NRC 3X3	3X3	1	45-540	0.025 TO 0.18
NRC 4X4	4X4	1	80-960	0.025 TO 0.18
NRC 5X5	5X5	1	125-1500	0.025 TO 0.18
NRC 6X6	6X6	1	180-2160	0.025 TO 0.18



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Type A Spring Flex Mountings

- 1" Nominal Deflection



TYPE A SPRING-FLEX MOUNTINGS (1" NOMINAL DEFLECTION)							
ASSEMBLY				COMPONENTS			
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	SPRING RATE (LB/IN)	HOUSING	SPRING (OUTER)	SPRING (INNER)	COLOR CODE (OUTER/INNER)
A-1C-50	50	1.00	50	A-1C-00	T1C-50		BLUE
A-1C-100	100	1.00	100	A-1C-00	T1C-100		TAN
A-1C-150	150	1.00	150	A-1C-00	T1C-150		RED
A-1C-250	250	.83	300	A-1C-00	T1C-250		BLACK
A-1C-300	300	.75	400	A-1C-00	T1C-300		DK. YELLOW
A-1C-370	370	.75	493	A-1C-00	T1C-370		YELLOW
A-1C-520N	520	.75	693	A-1C-00	T1C-370	T1A-150	YELLOW/GREEN
A-1E-195	195	1.95	100	A-1E-00	T1E-195		DK. BLUE
A-1E-400	400	1.32	303	A-1E-00	T1E-400		BLACK
A-1E-530N	530	1.17	453	A-1E-00	T1E-400	T1D-175	BLACK/DK. BLUE
A-1E-650	650	1.05	619	A-1E-00	T1E-650		RED
A-1E-825N	825	1.07	771	A-1E-00	T1E-650	T1D-175	RED/DK. BLUE
A-1E-1000	1000	1.00	1000	A-1E-00	T1E-1000		TAN
A-1E-1200N	1200	1.04	1154	A-1E-00	T1E-1000	T1D-175	TAN/DK. BLUE
A-1E-1400	1400	1.00	1400	A-1E-00	T1E-1400		PINK
A-1E-1700N	1700	1.10	1545	A-1E-00	T1E-1400	T1D-175	PINK/DK. BLUE
A-1E-2000	2000	1.11	1802	A-1E-00	T1E-2000		WHITE
A-1E-2330N	2330	1.11	2100	A-1E-00	T1E-2000	T1D-340	WHITE/RED
A-1E-2575N	2575	1.11	2320	A-1E-00	T1E-2000	T1D-675	WHITE/DK. PURPLE
A-1E-2990N	2990	1.11	2694	A-1E-00	T1E-2000	T1D-900	WHITE/DK. GREEN
A-1E-3250N	3250	1.04	3125	A-1E-00	T1E-2000	T1D-1200	WHITE/GRAY

Vibration Isolation & Seismic Restraints



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Vibration Isolation & Seismic Restraints

CALE Aluminum Spring Mounts

- With External Adjustment
- 1" Nominal Deflection



TYPE CALE ALUMINUM SPRING MOUNTS (1" NOMINAL DEFLECTION)								
ASSEMBLY				COMPONENTS				
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	SPRING RATE (LB/IN)	HOUSING (TOP)	HOUSING (BOTTOM)	SPRING (OUTER)	SPRING (INNER)	COLOR CODE (OUTER/INNER)
CALE-1C-50	50	1.00	50	CALE-1C TOP	CAL-1C BOT	T1C-50		BLUE
CALE-1C-100	100	1.00	100	CALE-1C TOP	CAL-1C BOT	T1C-100		TAN
CALE-1C-150	150	1.00	150	CALE-1C TOP	CAL-1C BOT	T1C-150		RED
CALE-1C-250	250	.83	300	CALE-1C TOP	CAL-1C BOT	T1C-250		BLACK
CALE-1C-300	300	.75	400	CALE-1C TOP	CAL-1C BOT	T1C-300		DK. YELLOW
CALE-1C-370	370	.75	493	CALE-1C TOP	CAL-1C BOT	T1C-370		YELLOW
CALE-1C-520N	520	.75	693	CALE-1C TOP	CAL-1C BOT	T1C-370	T1A-150	YELLOW/GREEN
CALE-1D-85	85	1.35	63	CALE-1D TOP	CAL-1D BOT	T1D-85		LT. PURPLE
CALE-1D-120	120	1.20	100	CALE-1D TOP	CAL-1D BOT	T1D-120		DK. YELLOW
CALE-1D-175	175	1.17	150	CALE-1D TOP	CAL-1D BOT	T1D-175		DK. BLUE
CALE-1D-250	250	1.40	179	CALE-1D TOP	CAL-1D BOT	T1D-250		YELLOW
CALE-1D-340	340	1.13	300	CALE-1D TOP	CAL-1D BOT	T1D-340		RED
CALE-1D-510	510	1.02	500	CALE-1D TOP	CAL-1D BOT	T1D-510		BLACK
CALE-1D-675	675	1.32	513	CALE-1D TOP	CAL-1D BOT	T1D-675		DK. PURPLE
CALE-1D-900	900	1.02	881	CALE-1D TOP	CAL-1D BOT	T1D-900		DK. GREEN
CALE-1D-1200	1200	.90	1327	CALE-1D TOP	CAL-1D BOT	T1D-1200		GRAY
CALE-1E-195	195	1.95	100	CALE-1E TOP	CAL-1E BOT	T1E-195		DK. BLUE
CALE-1E-400	400	1.32	303	CALE-1E TOP	CAL-1E BOT	T1E-400		BLACK
CALE-1E-530N	530	1.17	453	CALE-1E TOP	CAL-1E BOT	T1E-400	T1D-175	BLACK/DK. BLUE
CALE-1E-650	650	1.05	620	CALE-1E TOP	CAL-1E BOT	T1E-650		RED
CALE-1E-825N	825	1.07	770	CALE-1E TOP	CAL-1E BOT	T1E-650	T1D-175	RED/DK. BLUE
CALE-1E-1000	1000	1.00	1000	CALE-1E TOP	CAL-1E BOT	T1E-1000		TAN
CALE-1E-1200N	1200	1.04	1150	CALE-1E TOP	CAL-1E BOT	T1E-1000	T1D-175	TAN/DK. BLUE
CALE-1E-1400	1400	1.00	1400	CALE-1E TOP	CAL-1E BOT	T1E-1400		PINK
CALE-1E-1700N	1700	1.10	1550	CALE-1E TOP	CAL-1E BOT	T1E-1400	T1D-175	PINK/DK. BLUE
CALE-1E-2000	2000	1.11	1800	CALE-1E TOP	CAL-1E BOT	T1E-2000		WHITE
CALE-1E-2330N	2330	1.11	2100	CALE-1E TOP	CAL-1E BOT	T1E-2000	T1D-340	WHITE/RED
CALE-1E-2575N	2575	1.11	2313	CALE-1E TOP	CAL-1E BOT	T1E-2000	T1D-675	WHITE/DK. PURPLE
CALE-1E-2990N	2990	1.12	2681	CALE-1E TOP	CAL-1E BOT	T1E-2000	T1D-900	WHITE/DK. GREEN
CALE-1E-3250N	3250	1.04	3127	CALE-1E TOP	CAL-1E BOT	T-1E-2000	T1D-1200	WHITE/GRAY



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CALT Aluminum Spring Mounts

- With Internal Adjustment
- 1" Nominal Deflection



TYPE CALT ALUMINUM SPRING MOUNTS (1" NOMINAL DEFLECTION)								
ASSEMBLY				COMPONENTS				
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	SPRING RATE (LB/IN)	HOUSING (TOP)	HOUSING (BOTTOM)	SPRING (OUTER)	SPRING (INNER)	COLOR CODE (OUTER/INNER)
CALT-1C-50	50	1.00	50	CALT-1C TOP	CAL-1C BOT	T1C-50		BLUE
CALT-1C-100	100	1.00	100	CALT-1C TOP	CAL-1C BOT	T1C-100		TAN
CALT-1C-150	150	1.00	150	CALT-1C TOP	CAL-1C BOT	T1C-150		RED
CALT-1C-250	250	.83	300	CALT-1C TOP	CAL-1C BOT	T1C-250		BLACK
CALT-1C-300	300	.75	400	CALT-1C TOP	CAL-1C BOT	T1C-300		DK. YELLOW
CALT-1C-370	370	.75	493	CALT-1C TOP	CAL-1C BOT	T1C-370		YELLOW
CALT-1C-520N	520	.75	693	CALT-1C TOP	CAL-1C BOT	T1C-370	T1A-150	YELLOW/GREEN
CALT-1D-85	85	1.35	63	CALT-1D TOP	CAL-1D BOT	T1D-85		LT. PURPLE
CALT-1D-120	120	1.20	100	CALT-1D TOP	CAL-1D BOT	T1D-120		DK. YELLOW
CALT-1D-175	175	1.17	150	CALT-1D TOP	CAL-1D BOT	T1D-175		DK. BLUE
CALT-1D-250	250	1.40	179	CALT-1D TOP	CAL-1D BOT	T1D-250		YELLOW
CALT-1D-340	340	1.13	300	CALT-1D TOP	CAL-1D BOT	T1D-340		RED
CALT-1D-510	510	1.02	500	CALT-1D TOP	CAL-1D BOT	T1D-510		BLACK
CALT-1D-675	675	1.32	513	CALT-1D TOP	CAL-1D BOT	T1D-675		DK. PURPLE
CALT-1D-900	900	1.02	881	CALT-1D TOP	CAL-1D BOT	T1D-900		DK. GREEN
CALT-1D-1200	1200	.90	1327	CALT-1D TOP	CAL-1D BOT	T1D-1200		GRAY
CALT-1E-195	195	1.95	100	CALT-1E TOP	CAL-1E BOT	T1E-195		DK. BLUE
CALT-1E-400	400	1.32	303	CALT-1E TOP	CAL-1E BOT	T1E-400		BLACK
CALT-1E-530N	530	1.17	453	CALT-1E TOP	CAL-1E BOT	T1E-400	T1D-175	BLACK/DK. BLUE
CALT-1E-650	650	1.05	620	CALT-1E TOP	CAL-1E BOT	T1E-650		RED
CALT-1E-825N	825	1.07	770	CALT-1E TOP	CAL-1E BOT	T1E-650	T1D-175	RED/DK. BLUE
CALT-1E-1000	1000	1.00	1000	CALT-1E TOP	CAL-1E BOT	T1E-1000		TAN
CALT-1E-1200N	1200	1.04	1150	CALT-1E TOP	CAL-1E BOT	T1E-1000	T1D-175	TAN/DK. BLUE
CALT-1E-1400	1400	1.00	1400	CALT-1E TOP	CAL-1E BOT	T1E-1400		PINK
CALT-1E-1700N	1700	1.10	1550	CALT-1E TOP	CAL-1E BOT	T1E-1400	T1D-175	PINK/DK. BLUE
CALT-1E-2000	2000	1.11	1800	CALT-1E TOP	CAL-1E BOT	T1E-2000		WHITE
CALT-1E-2330N	2330	1.11	2100	CALT-1E TOP	CAL-1E BOT	T1E-2000	T1D-340	WHITE/RED
CALT-1E-2575N	2575	1.11	2313	CALT-1E TOP	CAL-1E BOT	T1E-2000	T1D-675	WHITE/DK. PURPLE
CALT-1E-2990N	2990	1.12	2681	CALT-1E TOP	CAL-1E BOT	T1E-2000	T1D-900	WHITE/DK. GREEN
CALT-1E-3250N	3250	1.04	3127	CALT-1E TOP	CAL-1E BOT	T1E-2000	T1D-1200	WHITE/GRAY

Vibration Isolation & Seismic Restraints



THE VMC GROUP

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Vibration Isolation & Seismic Restraints

AMSR Seismic Isolators

- 1" Nominal Deflection



TYPE AMSR SEISMIC ISOLATORS (1" NOMINAL DEFLECTION)							
ASSEMBLY				COMPONENTS			
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	SPRING RATE (LB/IN)	HOUSING	SPRING (OUTER)	SPRING (INNER)	COLOR CODE (OUTER/INNER)
AMSR-1C-50	50	1.00	50	AMSR-1C-00	T1C-50		BLUE
AMSR-1C-100	100	1.00	100	AMSR-1C-00	T1C-100		TAN
AMSR-1C-150	150	1.00	150	AMSR-1C-00	T1C-150		RED
AMSR-1C-250	250	.83	300	AMSR-1C-00	T1C-250		BLACK
AMSR-1C-300	300	.75	400	AMSR-1C-00	T1C-300		DK. YELLOW
AMSR-1C-370	370	.75	493	AMSR-1C-00	T1C-370		YELLOW
AMSR-1C-520N	520	.75	693	AMSR-1C-00	T1C-370	T1A-150	YELLOW/GREEN
AMSR-1E-195	195	1.95	100	AMSR-1E-00	T1E-195		DK. BLUE
AMSR-1E-400	400	1.32	303	AMSR-1E-00	T1E-400		BLACK
AMSR-1E-530N	530	1.17	453	AMSR-1E-00	T1E-400	T1D-175	BLACK/DK. BLUE
AMSR-1E-650	650	1.05	620	AMSR-1E-00	T1E-650		RED
AMSR-1E-825N	825	1.07	770	AMSR-1E-00	T1E-650	T1D-175	RED/DK. BLUE
AMSR-1E-1000	1000	1.00	1000	AMSR-1E-00	T1E-1000		TAN
AMSR-1E-1200N	1200	1.04	1150	AMSR-1E-00	T1E-1000	T1D-175	TAN/DK. BLUE
AMSR-1E-1400	1400	1.00	1400	AMSR-1E-00	T1E-1400		PINK
ASMR-1E-1700N	1700	1.10	1550	AMSR-1E-00	T1E-1400	T1D-175	PINK/DK. BLUE
ASMR-1E-2000	2000	1.11	1800	AMSR-1E-00	T1E-2000		WHITE
ASMR-1E-2330N	2330	1.11	2100	AMSR-1E-00	T1E-2000	T1D-340	WHITE/RED
ASMR-1E-2575N	2575	1.11	2313	AMSR-1E-00	T1E-2000	T1D-675	WHITE/DK. PURPLE
ASMR-1E-2990N	2990	1.12	2681	AMSR-1E-00	T1E-2000	T1D-900	WHITE/DK. GREEN
AMSR-1E-3250N	3250	1.04	3127	AMSR-1E-00	T-1E-2000	T1D-1200	WHITE/GRAY

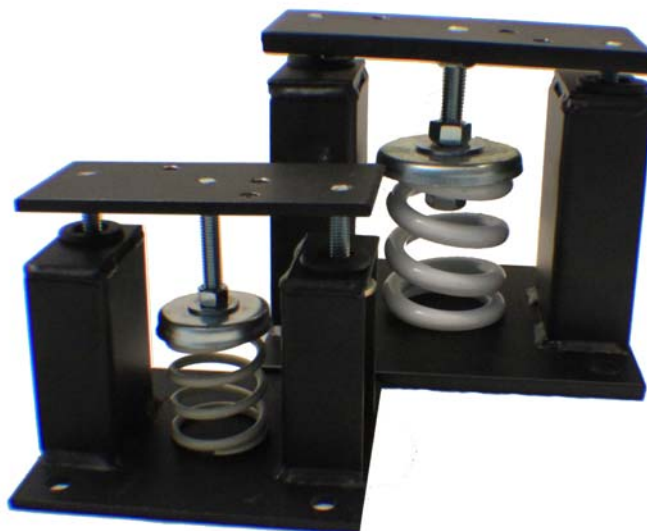


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MS Seismic Isolators

- Integral Seismic Restraint
- Internal Adjustment
- 1" Nominal Deflection



TYPE MS SEISMIC ISOLATORS (1" NOMINAL DEFLECTION)							
ASSEMBLY				COMPONENTS			
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	SPRING RATE (LB/IN)	HOUSING	SPRING (OUTER)	SPRING (INNER)	COLOR CODE (OUTER/INNER)
MS-1C-50	50	1.00	50	MS-1C-00	T1C-50		BLUE
MS-1C-100	100	1.00	100	MS-1C-00	T1C-100		TAN
MS-1C-150	150	1.00	150	MS-1C-00	T1C-150		RED
MS-1C-250	250	.83	300	MS-1C-00	T1C-250		BLACK
MS-1C-300	300	.75	400	MS-1C-00	T1C-300		DK. YELLOW
MS-1C-370	370	.75	493	MS-1C-00	T1C-370		YELLOW
MS-1C-520N	520	.75	693	MS-1C-00	T1C-370	T1A-150	YELLOW/GREEN
MS-1E-195	195	1.95	100	MS-1E-00	T1E-195		DK. BLUE
MS-1E-400	400	1.32	303	MS-1E-00	T1E-400		BLACK
MS-1E-530N	530	1.17	453	MS-1E-00	T1E-400	T1D-175	BLACK/DK. BLUE
MS-1E-650	650	1.05	620	MS-1E-00	T1E-650		RED
MS-1E-825N	825	1.07	770	MS-1E-00	T1E-650	T1D-175	RED/DK. BLUE
MS-1E-1000	1000	1.00	1000	MS-1E-00	T1E-1000		TAN
MS-1E-1200N	1200	1.04	1150	MS-1E-00	T1E-1000	T1D-175	TAN/DK. BLUE
MS-1E-1400	1400	1.00	1400	MS-1E-00	T1E-1400		PINK
MS-1E-1700N	1700	1.10	1550	MS-1E-00	T1E-1400	T1D-175	PINK/DK. BLUE
MS-1E-2000	2000	1.11	1800	MS-1E-00	T1E-2000		WHITE
MS-1E-2330N	2330	1.11	2100	MS-1E-00	T1E-2000	T1D-340	WHITE/RED
MS-1E-2575N	2575	1.11	2313	MS-1E-00	T1E-2000	T1D-675	WHITE/DK. PURPLE
MS-1E-2990N	2990	1.12	2681	MS-1E-00	T1E-2000	T1D-900	WHITE/DK. GREEN
MS-1E-3250N	3250	1.04	3127	MS-1E-00	T-1E-2000	T1D-1200	WHITE/GRAY

Vibration Isolation & Seismic Restraints



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Vibration Isolation & Seismic Restraints

HRO Elastomeric Isolators

- 1" Nominal Deflection



TYPE HRO ELASTOMERIC ISOLATORS (1/2" NOMINAL DEFLECTION)					
ASSEMBLY			COMPONENTS		
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	HANGER BOX	ELEMENT	COLOR CODE
HRO-A-35	35	.40	-	RE-A-35	BLUE
HRO-A-75	100	.40	-	RE-A-75	RED
HRO-A-120	120	.40	-	RE-A-120	GREEN
HRO-B-170	170	.50	-	RE-B-170	BLACK
HRO-B-240	240	.50	-	RE-B-240	RED
HRO-B-380	380	.50	-	RE-B-380	GREEN

HR Elastomeric Hangers

- With Hanger Box
- 1" Nominal Deflection



TYPE HR ELASTOMERIC HANGERS (1/2" NOMINAL DEFLECTION)									
ASSEMBLY			COMPONENTS						
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	HANGER BOX	LENGTH "L"	WIDTH "W"	HEIGHT "H"	MAXIMUM ROD DIA.	ELEMENT	COLOR CODE
HR-A-35	35	.40	H-10G	2-1/4	2	3	3/8	RE-A-35	BLUE
HR-A-75	100	.40	H-10G	2-1/4	2	3	3/8	RE-A-75	RED
HR-A-120	120	.40	H-10G	2-1/4	2	3	3/8	RE-A-120	GREEN
HR-B-170	170	.50	H-20G	3	2-1/4	4-1/2	5/8	RE-B-170	BLACK
HR-B-240	240	.50	H-20G	3	2-1/4	4-1/2	5/8	RE-B-240	RED
HR-B-380	380	.50	H-20G	3	2-1/4	4-1/2	5/8	RE-B-380	GREEN



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HRS Elastomeric & Spring Hangers

- With Hanger Box
- 1" Nominal Deflection



Vibration Isolation & Seismic Restraints

TYPE HRS ELASTORMIC & SPRING HANGERS (1" NOMINAL DEFLECTION)											
ASSEMBLY			COMPONENTS								
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	HANGER BOX	LENGTH "L"	WIDTH "W"	HEIGHT "H"	MAX. ROD DIA.	SPRING	COLOR CODE	ELEMENT	COLOR CODE
HRS-1B-20	20	1.48	H-10G	2-1/4	2	3	3/8	T1B-20	DK. BLUE	RE-A-35	BLUE
HRS-1B-35	35	1.57	H-10G	2-1/4	2	3	3/8	T1B-35	BLACK	RE-A-35	BLUE
HRS-1B-50	50	1.38	H-10G	2-1/4	2	3	3/8	T1B-50	RED	RE-A-75	RED
HRS-1B-70	70	1.25	H-10G	2-1/4	2	3	3/8	T1B-70	DK. GREEN	RE-A-75	RED
HRS-1B-85	85	1.09	H-10G	2-1/4	2	3	3/8	T1B-85	GRAY	RE-A-120	GREEN
HRS-1C-50	50	1.15	H-80G	3-1/4	3	7	5/8	T1C-50	BLUE	RE-B-170	BLACK
HRS-1C-100	100	1.29	H-80G	3-1/4	3	7	5/8	T1C-100	TAN	RE-B-170	BLACK
HRS-1C-150	150	1.44	H-80G	3-1/4	3	7	5/8	T1C-150	RED	RE-B-170	BLACK
HRS-1C-250	250	1.16	H-80G	3-1/4	3	7	5/8	T1C-250	BLACK	RE-B-380	GREEN
HRS-1C-300	300	1.14	H-80G	3-1/4	3	7	5/8	T1C-300	DK. YELLOW	RE-B-380	GREEN
HRS-1C-370	370	1.24	H-80G	3-1/4	3	7	5/8	T1C-370	YELLOW	RE-B-380	GREEN



THE VMC GROUP

The Power of Together

Vibration Isolation & Seismic Restraints

HRSA Elastomeric & Spring Angularity Hangers

- With Hanger Box
- 1" Nominal Deflection



TYPE HRSA ELASTORMIC & SPRING ANGULARITY HANGERS (1" NOMINAL DEFLECTION)											
ASSEMBLY			COMPONENTS								
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	HANGER BOX	LENGTH "L"	WIDTH "W"	HEIGHT "H"	MAX. ROD DIA.	SPRING	COLOR CODE	ELEMENT	COLOR CODE
HRSA-1B-20	20	1.48	H-10G	2-1/4	2	3	3/8	T1B-20	DK. BLUE	RE-A-35	BLUE
HRSA-1B-35	35	1.57	H-10G	2-1/4	2	3	3/8	T1B-35	BLACK	RE-A-35	BLUE
HRSA-1B-50	50	1.38	H-10G	2-1/4	2	3	3/8	T1B-50	RED	RE-A-75	RED
HRSA-1B-70	70	1.25	H-10G	2-1/4	2	3	3/8	T1B-70	DK. GREEN	RE-A-75	RED
HRSA-1B-85	85	1.09	H-10G	2-1/4	2	3	3/8	T1B-85	GRAY	RE-A-120	GREEN
HRSA-1C-50	50	1.15	H-80G	3-1/4	3	7	5/8	T1C-50	BLUE	RE-B-170	BLACK
HRSA-1C-100	100	1.29	H-80G	3-1/4	3	7	5/8	T1C-100	TAN	RE-B-170	BLACK
HRSA-1C-150	150	1.44	H-80G	3-1/4	3	7	5/8	T1C-150	RED	RE-B-170	BLACK
HRSA-1C-250	250	1.16	H-80G	3-1/4	3	7	5/8	T1C-250	BLACK	RE-B-380	GREEN
HRSA-1C-300	300	1.14	H-80G	3-1/4	3	7	5/8	T1C-300	DK. YELLOW	RE-B-380	GREEN
HRSA-1C-370	370	1.24	H-80G	3-1/4	3	7	5/8	T1C-370	YELLOW	RE-B-380	GREEN



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The Power of Together

HSO Spring Hangers

- 1" Nominal Deflection



TYPE HSO SPRING HANGERS (1" NOMINAL DEFLECTION)						
ASSEMBLY				COMPONENTS		
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	SPRING RATE (LB/IN)	SPRING (OUTER)	SPRING (INNER)	COLOR CODE (OUTER)
HSO-1B-20	20	1.25	16	T1B-20	-	DK. BLUE
HSO-1B-35	35	1.17	30	T1B-35	-	BLACK
HSO-1B-50	50	1.11	45	T1B-50	-	RED
HSO-1B-70	70	.88	80	T1B-70	-	DK. GREEN
HSO-1B-85	85	.81	105	T1B-85	-	GRAY
HSO-1C-50	50	1.00	50	T1C-50	-	BLUE
HSO-1C-100	100	1.00	100	T1C-100	-	TAN
HSO-1C-150	150	1.00	150	T1C-150	-	RED
HSO-1C-250	250	.83	300	T1C-250	-	BLACK
HSO-1C-300	300	.75	400	T1C-300	-	DK. YELLOW
HSO-1C-370	370	.75	493	T1C-370	-	YELLOW
HSO-1C-520N	520	.75	693	T1C-370	T1A-150	YELLOW/GREEN
HSO-1D-85	85	1.35	63	T1E-85		LT. PURPLE
HSO-1D-120	120	1.20	100	T1E-120		DK. YELLOW
HSO-1D-175	175	1.17	150	T1E-175		DK. BLUE
HSO-1D-250	250	1.40	179	T1E-250		YELLOW
HSO-1D-340	340	1.13	300	T1E-340		RED
HSO-1D-510	510	1.02	500	T1E-510		BLACK
HSO-1D-675	675	1.32	513	T1E-675		DK. PURPLE
HSO-1D-900	900	1.02	881	T1E-900		DK. GREEN
HSO-1D-1200	1200	.90	1327	T1E-1200		GRAY
HSO-1E-195	195	1.95	100	T1E-195		DK. BLUE
HSO-1E-400	400	1.32	303	T1E-400		BLACK
HSO-1E-530N	530	1.17	453	T1E-400	T1D-175	BLACK/DK. BLUE
HSO-1E-650	650	1.05	619	T1E-650		RED
HSO-1E-825N	825	1.07	771	T1E-1000	T1D-175	RED/DK. BLUE
HSO-1E-1000	1000	1.00	1000	T1E-1000		TAN
HSO-1E-1200N	1200	1.04	1154	T1E-1000	T1D-175	TAN/DK. BLUE
HSO-1E-1400	1400	1.00	1400	T1E-1400		PINK
HSO-1E-1700N	1700	1.10	1545	T1E-1400	T1D-175	PINK/DK. BLUE
HSO-1E-2000	2000	1.11	1802	T1E-2000		WHITE
HSO-1E-2575N	2575	1.11	2320	T1E-2000	T1D-675	WHITE/DK. PURPLE
HSO-1E-2990N	2990	1.11	2694	T1E-2000	T1D-900	WHITE/DK. GREEN
HSO-1E-3250N	3250	1.04	3125	T1E-2000	T1D-1200	WHITE/GRAY



THE VMC GROUP

The Power of Together

HS Spring Hangers

- 1" Nominal Deflection



Vibration Isolation & Seismic Restraints

TYPE HS SPRING HANGERS (1" NOMINAL DEFLECTION)												
ASSEMBLY				COMPONENTS								
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	SPRING RATE (LB/IN)	HANGER BOX	HANGER BOX			MAX ROD DIA	SPRING (OUTER)	SPRING (INNER)	COLOR CODE (OUTER)	
					LENGTH "L"	WIDTH "W"	HEIGHT "H"					
HS-1B-20	20	1.25	16	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-20	-	DK. BLUE	
HS-1B-35	35	1.17	30	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-35	-	BLACK	
HS-1B-50	50	1.11	45	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-50	-	RED	
HS-1B-70	70	.88	80	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-70	-	DK. GREEN	
HS-1B-85	85	.81	105	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-85	-	GRAY	
HS-1D-85	85	1.35	63	H-80G	3-1/4	3	7	5/8	T1E-85		LT. PURPLE	
HS-1D-120	120	1.20	100	H-80G	3-1/4	3	7	5/8	T1E-120		DK. YELLOW	
HS-1D-175	175	1.17	150	H-80G	3-1/4	3	7	5/8	T1E-175		DK. BLUE	
HS-1D-250	250	1.40	179	H-80G	3-1/4	3	7	5/8	T1E-250		YELLOW	
HS-1D-340	340	1.13	300	H-80G	3-1/4	3	7	5/8	T1E-340		RED	
HS-1D-510	510	1.02	500	H-80G	3-1/4	3	7	5/8	T1E-510		BLACK	
HS-1D-675	675	1.32	513	H-80G	3-1/4	3	7	5/8	T1E-675		DK. PURPLE	
HS-1D-900	900	1.02	881	H-80G	3-1/4	3	7	5/8	T1E-900		DK. GREEN	
HS-1D-1200	1200	.90	1327	H-80G	3-1/4	3	7	5/8	T1E-1200		GRAY	
HS-1E-195	195	1.95	100	H-140	4-1/2	3-1/2	10-1/8	1	T1E-195		DK. BLUE	
HS-1E-400	400	1.32	303	H-140	4-1/2	3-1/2	10-1/8	1	T1E-400		BLACK	
HS-1E-530N	530	1.17	453	H-140	4-1/2	3-1/2	10-1/8	1	T1E-400	T1D-175	BLACK/DK. BLUE	
HS-1E-650	650	1.05	619	H-140	4-1/2	3-1/2	10-1/8	1	T1E-650		RED	
HS-1E-825N	825	1.07	771	H-140	4-1/2	3-1/2	10-1/8	1	T1E-1000	T1D-175	RED/DK. BLUE	
HS-1E-1000	1000	1.00	1000	H-140	4-1/2	3-1/2	10-1/8	1	T1E-1000		TAN	
HS-1E-1200N	1200	1.04	1154	H-140	4-1/2	3-1/2	10-1/8	1	T1E-1000	T1D-175	TAN/DK. BLUE	
HS-1E-1400	1400	1.00	1400	H-140	4-1/2	3-1/2	10-1/8	1	T1E-1400		PINK	
HS-1E-1700N	1700	1.10	1545	H-140	4-1/2	3-1/2	10-1/8	1	T1E-1400	T1D-175	PINK/DK. BLUE	
HS-1E-2000	2000	1.11	1802	H-140	4-1/2	3-1/2	10-1/8	1	T1E-2000		WHITE	
HS-1E-2575N	2575	1.11	2320	H-140	4-1/2	3-1/2	10-1/8	1	T1E-2000	T1D-675	WHITE/DK. PURPLE	
HS-1E-2990N	2990	1.11	2694	H-140	4-1/2	3-1/2	10-1/8	1	T1E-2000	T1D-900	WHITE/DK. GREEN	
HS-1E-3250N	3250	1.04	3125	H-140	4-1/2	3-1/2	10-1/8	1	T1E-2000	T1D-1200	WHITE/GRAY	



THE VMC GROUP

The Power of Together

HSA Spring Angularity Hangers

- 1" Nominal Deflection



TYPE HSA SPRING ANGULARITY HANGERS (1" NOMINAL DEFLECTION)										
ASSEMBLY				COMPONENTS						
MODEL	MAX LOAD (LBS)	DEFLECTION (IN)	SPRING RATE (LB/IN)	HANGER BOX	HANGER BOX			MAX ROD DIA	SPRING (OUTER)	COLOR CODE (OUTER)
					LENGTH "L"	WIDTH "W"	HEIGHT "H"			
HSA1B-20	20	1.25	16	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-20	DK. BLUE
HSA-1B-35	35	1.17	30	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-35	BLACK
HSA-1B-50	50	1.11	45	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-50	RED
HSA-1B-70	70	.88	80	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-70	DK. GREEN
HSA-1B-85	85	.81	105	H-50G	2-3/4	2-1/4	4-1/2	3/8	T1B-85	GRAY



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The Power of Together

Vibration Isolation & Seismic Restraints

Manufacturer	Website	Product Description
Loren Cook Co.	www.lorencook.com	Exhaust & Supply Fans, Blowers & Ventilators Energy Recovery Units High-Plume and Lab Exhaust Fans
Ruskin Manufacturing	www.ruskin.com	Control Dampers, Fire , Smoke & Fire, Smoke Dampers, Brick Vents, Fire , Louvers, Penthouses, Duct Access Doors, Energy Recovery Units
Titus	www.titus-hvac.com	Grilles, Registers, Diffusers, Terminal Units, Fan Coil Units, Air Handler Units and Rooftop Units, Displacement Ventilation, Chilled Beams
Lindab /SPIROsafe®	www.lindabusa.com	Spiral Ducts, Dampers, Duct Mounted Grille, Gasketed Self-Sealing Fittings
Cerus Industrial	www.cerusindustrial.com	VFD's & Motor Starters
Continental Fan Co.(CFM)	www.continentalfan.com	Iris Damper and Specialty Fans
Raymon Donco	www.raymon-hvac.com	Diffusers, Bar Grilles, Transitions
Ductsox®	www.ductsox.com	Fabric Air Dispersion System, LabSxo Diffusers, Underfloor Air Distribution
Envirco	www.envirco.com	Critical Environment Diffusers With HEPA Filters
Flanders-CSC-Precision	www.flanderscorp.com	Air Filtration Products, Containment Housings, Specialty Filters – Carbon, HEPA, ULPA
Gripple	www.gripple.com	Duct & Equipment Cable Support System
Hart & Cooley	www.hartandcooley.com	Grilles, Registers, Diffusers, Flexible Ducts
Kees	www.kees.com	Security Bars and Grilles, Kitchen Hoods, MAU's
Metal-fab	www.mtlfab.com	Type "B" Gas Venting
Milcor, Inc.	www.milcorp.com	Access Doors, Heat/Smoke Vents, Hatches
Monoxivent	www.monoxivent.com	Dust, Vehicle & Fume Collection Equipment, Underground FRP Ductwork
Panasonic	www.panasonic.com	Bathroom Exhaust Fans (Energy Star)
PermAlert	www.permalert.com	Liquid Leak Detection Systems, Cables, Sensors, Monitors
PoweredAire	www.poweredaire.com	Air Doors (Gas, Electric, Steam, Hot Water)
Q-Mark	www.qmarkmep.com	Electric Heaters, Fans & Air Circulators
RenewAire	www.renewaire.com	Energy Recovery Units & DOAS Units
RSC-Ruskin Sound Control	www.ruskinsound.com	Sound Attenuators, Transfer Ducts, Plenums
RSI- Rooftop Systems Inc	www.rooftopsystems.com	Economizer Systems, Energy Recovery Ventilators, Power Exhaust Systems, Concentric Diffusers, Specialty Diffusers, Burglar Bars
Seiho	www.seiho.com	Spot Diffusers, Round Registers, Vents
Sheet Metal Connectors	www.smcduct.com	Spin-In Collars, Sq. to Rd. Adapters, Etc.
Space-Ray	www.spaceray.com	Infrared Gas Heaters & Ceramic Heaters
Sterling	www.sterlinghvac.com	Gas-Fired Unit Heaters, Rooftop Make Up Air Systems
Superior Radiant Products	www.superiorradiant.com	Gas Fired Radiant Heat, Electric Radiant Heat
Thermaflex	www.flexibletechnologies.com	Flex Ducts & Accessories, In-Line Duct Fans
Thermolec	www.thermolec.com	Electric Duct Heaters, SCR Controls
Thermal Core	www.thermalcore.com	Low Temperature Air Diffusers, High Induction Diffusers
TriaTek	www.triatek.com	Fume Hood & Lab Pressurization Control, Air Valves
TUTCO Electric Heaters	www.tutco.com	Electric Duct Heaters, Unit Heater
Underduct		FRP Underground Duct
VAW Systems	www.vawsystems.com	Sound Attenuation Products
VMC Group	www.thevmcgroup.com	Vibration Isolation and Seismic