Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

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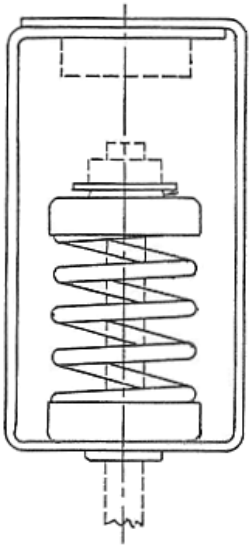
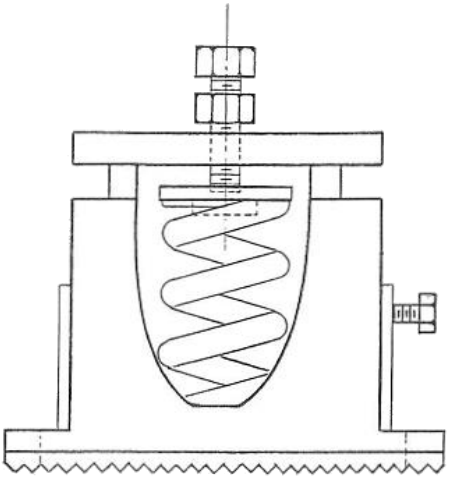
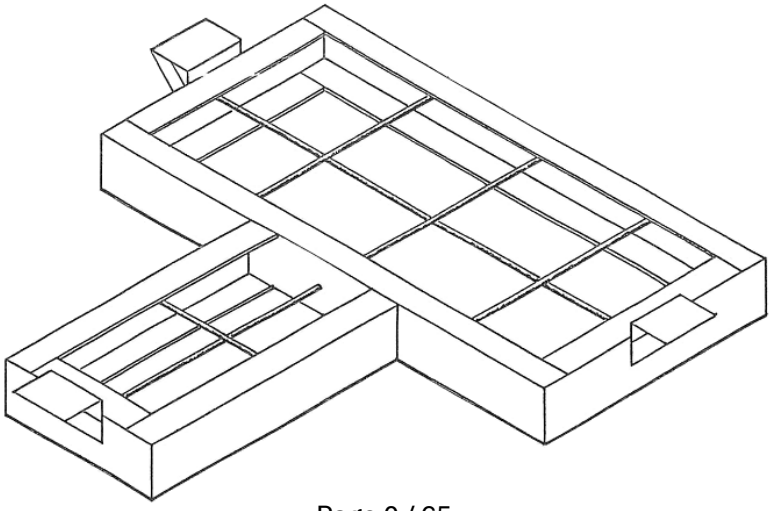
Vibration and Noise Control Products Catalogue







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VIBRATION ISOLATION EQUIPMENT

PARTIAL LIST OF INSTALLATIONS

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Partial List of Installations

MANITOBA

PROJECT	AREA	CONSULTANT ENGINEERS
CN TERMINAL BUILDING	SYMINGTON YARDS	CN ENGINEERING
KETTLE RAPIDS GENERATING STATION	GILLAM	CRIPPEN ACRES LTD.
TACHE HOSPITAL	ST. BONIFACE	GABOURY LUSSIER SIGURDSON
FISHERIES RESEACH OF CANADA	U. OF MANITOBA	GREEN BLANKSTEIN RUSSELL
LAKEVIEW OFFICE BUILDING	WINNIPEG	KLEIN & DASHEVSKY ASSOC.
SEVEN OAKS HOSITAL	WINNIPEG	SCOUTEN MITCHELL SIGURDSON
TROPICAL BUILDING	WINNIPEG	REID CROWTHER & PARTNERS
MAPLES SCHOOL	WINNIPEG	SCOUTEN MITCHELL SIGURDSON
C.P. HOTEL	BRANDON	SCOUTEN MITCHELL SIGURDSON
CENTENNIAL LIBRARY	WINNIPEG	SCOUTEN MITCHELL SIGURDSON
RUPERTSLAND OFFICE BUILDING	WINNIPEG	KLEIN & DASHEVSKY ASSOC.
BOARD OF GRAIN COMMISSIONERS BLDG.	WINNIPEG	SMITH CARTER PARTNERS
WILTON OFFICE BUILDING	WINNIPEG	MECHANICAL CONSULT. WESTERN
THE WINNIPEG MINT	WINNIPEG	SCOUTEN MITCHELL SIGURDSON
UNITED GRAIN GROWERS BUILDING	WINNIPEG	KLEIN & DASHEVSKY ASSOC.
WINNIPEG CONVENTION CENTRE	WINNIPEG	KLEIN & DASHEVSKY ASSOC.
HUNTER MEMORIAL HOSPITAL	TEULON	RON SEEPISH
PROVINCIAL OFFICE BUILDING	PORTAGE LA PRAIRIE	GABOURY LUSSIER SIGURDSON
IMPERIAL ROADWAY TOWER	WINNIPEG	KLEIN & DASHEVSKY ASSOC.
HEALTH SCIENCES CENTRE BLDG. 7643	WINNIPEG	SCOUTEN MITCHELL SIGURDSON
ROYAL TRUST BUILDING	WINNIPEG	SCOUTEN MITCHELL SIGURDSON
NATIONAL RESEARCH COUNCIL INSTITUTE	WINNIPEG	E.J. FARACI & ASSOCIATES
BANK OF MONTREAL, PORTAGE & MAIN	WINNIPEG	SMITH CARTER PARTNERS
PROVINCIAL OFFICE BUILDING	THOMPSON	G.B.R. & ASSOCIATES
ST. VIATORS CHURCH	DAUPHIN	K & D ENGINEERING
PROVINCIAL OFFICE BUILDING	DAUPHIN	SCOUTEN MITCHELL SIGURDSON

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Partial List of Installations

SASKATCHEWAN

PROJECT	AREA	CONSULTANT ENGINEERS
MEADOW LAKE HIGH SCHOOL	MEADOW LAKE	ANGUS BUTLER
CO-OP LIFE BUILDING	REGINA	R.J. BRIGGS & ASSOC.
MELFORT UNION HOSPITAL	MELFORT	DOUGLAS PEARSON
ARTS & ADMINISTRATION BLDG.	REGINA	J.J. MCCARTAN & ASSOC.
REGIONAL LIBRARY	PRINCE ALBERT	J.J. MCCARTAN & ASSOC.
SCHOOL FOR DEAF	SASKATOON	UNDERWOOD MCLELLAN & ASSOC.
MURRAY MEMORIAL LIBRARY	SASKATOON	YONEDA & ASSOC.
PROVINCIAL OFFICE BLDG.	SASKATOON	SASKMONT ENGIN.
TAXATION BUILDING	REGINA	YONEDA & ASSOC.
RIVERSIDE NURSING HOME	SASKATOON	ANGUS BUTLER
NORTH BATTLEFORD HOSPITAL	NORTH BATTLEFORD	SASKMONT ENGIN.
FAIRHAVEN SCHOOL	SASKATOON	J.J. MCCARTAN & ASSOC.
LESTER PEARSON SCHOOL	SASKATOON	J.J. MCCARTAN & ASSOC.
R.C.M.P. BUILDING	YORKTON	PUBLIC WORKS CANADA
ROLAND MITCHENER SCHOOL	SASKATOON	J.J. MCCARTAN & ASSOC.
CREDIT UNION CENTRAL	REGINA	YONEDA & ASSOC.

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Partial List of Installations

ALBERTA

PROJECT	AREA	CONSULTANT ENGINEERS
WESTERN CENTRE	CALGARY	ABUGOV. & SUNDERLAND
MINE SERVICES BUILDING	EDMONTON	ASSOCIATED ENG. SERVICES
ATHABASKA HOTEL	ATHABASKA	E. BOLSTAD ENGINEERING
COLLEGE PLAZA	EDMONTON	CHABOT ENGINEERING LTD.
MCLEOD SCHOOL	EDMONTON	GORDON MANGOLD
ST. MATTHEWS SCHOOL	EDMONTON	SIEMENS ENGINEERING LTD.
ALLIN CLINIC	EDMONTON	VINTO ENGINEERING
AIR OPERATIONS CENTRE	EDMONTON	TRANSPORT CANADA
J.H. PICARD SCHOOL	EDMONTON	VINTO ENGINEERING
AGT MAINTENANCE CENTRE	CALGARY	KLEIN & DASHEVSKY ASSOC.
AMACO OFFICE TOWER	ALBERTA	KLEIN & DASHEVSKY ASSOC.
FORD BUILDING	CALGARY	BOLSTAD ENG. ASSOC.
MILDRED LAKE (SYNDRUDE CANADA LTD.)	ALBERTA	ASSOCIATED ENGIN. SERVICE
WHITE COURT PROV.COURTS BLDG.	ALBERTA	DEPT. OF PUBLIC WORKS
ANDREW SCHOOL	ANDREW	ALLEN WASNEA ENGINEERING
SPRUCE GROVE CATHOLIC SCHOOL	SPRUCE GROVE	KEEN ENGINEERING
EDMONTON CITY HALL	EDMONTON	CHERITON ENGINEERING LTD.
FESTIVAL PLACE	EDMONTON	REID CROWTHIER PARTNERS

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Partial List of Installations

NEW BRUNSWICK

PROJECT	AREA	CONSULTANT ENGINEERS
LAMEQUE HOSPITAL	LAMEQUE	T.L. BELLIVEAU & ASSOC.
RCMP HEADQUARTERS BLDG. 'J'	FREDERICTON	EASTCAN CONSULTANTS
GULF FISHERIES CENTRE	MONCTON	EASTCAN CONSULTANTS
CHATHAM JR. HIGH SCHOOL	CHATHAM	EASTCAN CONSULTANTS
SAMUEL DE CHAMPLAIN SCHOOL	SAINT JOHN	PEERLESS CONSULTING
ROSS VENTURES BUILDING	FREDERICTON	PEERLESS CONSULTING
MARKET SQUARE	SAINT JOHN	EASTCAN CONSULTANTS
DALHOUSIE SR. HIGH SCHOOL	DALHOUSIE	JOHN M. MACLEAN MGMT.
BAIE STE. ANNE SCHOOL	BAIE STE. ANNE	J.L. BELLIVEAU & ASSOC.
SALISBURY SCHOOL	SALISBURY	J.L. BELLIVEAU & ASSOC.
HARTLAND HIGH SCHOOL	HARTLAND	PEERLESS CONSULTING
SALISBURY EDUCATIONAL COMPLEX	SALISBURY	J.L. BELLIVEAU & ASSOC.
SALEM SCHOOL	MONCTON	W.H. CRANDALL & ASSOC.
BOULEVARD PLAZA PH. II	MONCTON	W.H. CRANDALL & ASSOC.
CHALEUR GENERAL HOSPITAL	BATHURST	

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Partial List of Installations

PROJECT	AREA	CONSULTANT ENGINEERS
BRITISH COLUMBIA		
BEACON HILL LODGE	VICTORIA	MECHANICAL CONSULT. WEST
FRASER CANYON LODGE	HOPE	THOMPSON BERWICK
ST. VINCENT'S HOSPITAL	VANCOUVER	THOMPSON BERWICK & PRATT
PRINCE GEORGE HOSPITAL	PRINCE GEORGE	MACKENZIE SNOWBALL & SKALBANIA
SIMON FRASER UNIVERSITY	VANCOUVER	D.W. THOMPSON
WRINCH MEMORIAL HOSPITAL	HAZELTON	D.W. THOMPSON
MAIL PROCESSING PLANT	VICTORIA	D.W. THOMPSON
PROVINCIAL COURT BLDG.	VANCOUVER	D.W. THOMPSON
B.C. TELEPHONE/WM. FARRELL BLDG.	VANCOUVER	THOMPSON BERWICK & PRATT
PRINCE EDWARD ISLAND		
BORDEN ELEMENTARY SCHOOL	BORDEN	CALLAGHAN ASSOCIATES LTD.
DVA HEADQUARTERS BUILDING	CHARLOTTETOWN	PUBLIC WORKS CANADA
CONVENTION CENTRE	CHARLOTTETOWN	DB & J (1971) INC.
FRENCH SCHOOL	CHARLOTTETOWN	CALLAGHAN ASSOCIATES LTD.
NOVA SCOTIA		
TRADE MART	HALIFAX	

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Partial List of Installations

PROJECT	AREA	CONSULTANT ENGINEERS
ONTARIO		
ACADEMIC BLDG./LAKEHEAD UNIVERSITY	THUNDER BAY	R.P. ALLSOP & ASSOC.LTD.
HILLCREST HIGH SCHOOL	THUNDER BAY	R.P. ALLSOP & ASSOC.LTD.
LENWORTH DEVELOPMENT	TORONTO	A.I. CHAPKIN & ASSOC.LTD.
INCO SHEBANDOWIN MILL	STURGEON LAKE	GIFFELS & ASSOCIATES LTD.
MATTABI MINES	STURGEON LAKE	KILBORN ENGINEERING LTD.
BEACON HILL LODGE	HAMILTON	MECHANICAL CONSULT. WESTERN
WILSON MEMORIAL HOSPITAL	MARATHON	SCOUTEN MITCHELL SIGURDSON
CANCER CLINIC	THUNDER BAY	RYBKA, SMITH & GINSLER
PROFESSIONAL OFFICE BUILDING	THUNDER BAY	SMITH CARTER & PARTNERS
SASKATCHEWAN WHEAT POOL TERM. #7	THUNDER BAY	C.D. HOWE
T. EATON STORE	THUNDER BAY	W.L. WARDROP
MINISTRY OF ENVIRON.REGIONAL LAB	THUNDER BAY	W.L. WARDROP

Mac AMS Inc.

VIBRATION ISOLATION EQUIPMENT

PRODUCT INFORMATION

General Application for Mechanical Equipment

All base mounted fans, air handling units, pumps, refrigeration machines, cooling towers, boilers, air cooled condensers and air compressors shall be isolated by materials previously specified having a MINIMUM static deflection as per the VIBRATION CONTROL Selection Guide.

Centrifugal fans located in non-critical areas shall be mounted directly on an integral steel fan and motor base, and in turn on isolators. All other centrifugal fans shall be mounted with their motor on a CIB form with thickness as specified.

Air handling units, axial flow fans and package blowers shall be directly mounted on isolators or resiliently hung. For critical application the above equipment shall be mounted upon inertia base forms.

Boilers, Refrigeration Machines, and Cooling Towers installed on upper floors shall be mounted on type KW spring isolators. All vent set fans and small equipment requiring less than 1" static deflection shall be mounted on OST type spring isolators.

All base mounted pumps located in basement floor and under 5 HP shall be mounted on C rails having .50" static deflection. All other pumps shall be mounted on inertia base forms with spring isolators. The base form and isolators shall be as previously specified unless stated otherwise.

All base mounted pumps and coil connections on air handling units shall have Flex/Flo stainless steel flexible metal hose on the suction and discharge connections.

OPTION (a)

All horizontal pipe runs 2 ½" and larger within the mechanical room shall be resiliently hung on type STR spring hangers. All riser piping 2 ½" and larger shall be supported by RRC resilient riser clamps.

Use only (a) or (b)

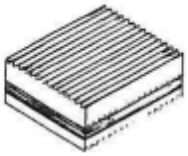
or

OPTION (b)

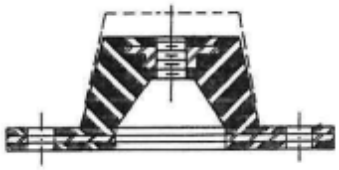
All piping connected to isolated equipment shall be resiliently hung at the first three points leading to and away from the equipment. All riser piping 2 ½" and larger shall be supported by RRC resilient riser clamps.

General Materials for Mechanical Equipment

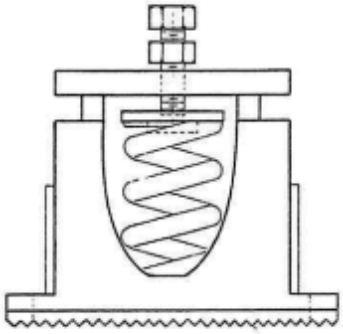
Mounts



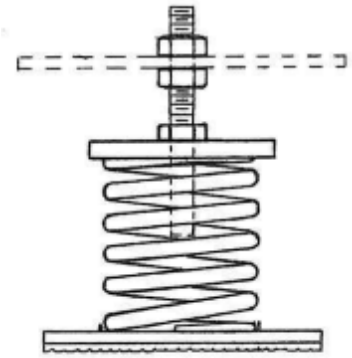
RSR pad type isolator consisting of ½" thick natural rubber corrugated both surfaces shall be bonded to ¼" steel plate. Neoprene material similar to the above is recommended where it may come in contact with oil.



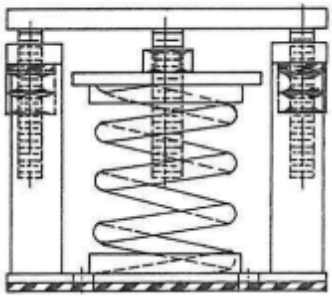
Rubber-in-shear mounts shall be type AR or ARD. The units shall be of molded element design for .20" or .40" static deflection under imposed load. Type 368 SD with ½" deflection shall be used on C rails where specified.



All housed spring mounts shall be complete with stable, colour coded springs, with levelling device and ribbed neoprene vibration under pad. For deflection less than 1", type ASL cast aluminum type mountings shall be used with a minimum 2" O.D. spring.

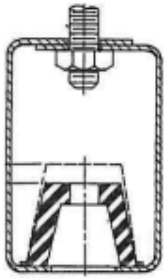


Open type OS free standing, stable spring isolators shall be used for deflections greater than 1.25". Each spring unit shall be designed with a good ratio between the diameter and the working height to assure lateral stability. The unit isolator shall have top level adjustment and ribbed rubber pads on the bottom for sound deadening.



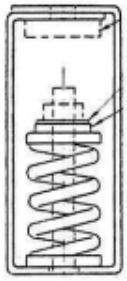
Type OST and KW spring isolators shall have type OS characteristics with the following features. The spring unit isolator shall have a built-in limit control device to restrain the upward travel when the weight is temporarily removed, and also provide safety stop for windy roof top locations. All unit isolators located outdoors must have hot-dipped galvanized housing and accessories; springs are to have two coats of an approved rust resistant paint to resist corrosion.

General Materials
For Mechanical Equipment



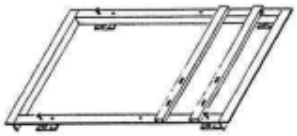
Hangers

Rubber-in-shear hanger shall be ARH and ARHD with static deflection of .20" or .40" respectively. The molded neoprene element shall be housed within a steel housing.

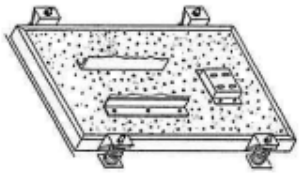


Spring hangers shall be type ST consisting of a spring as previously specified, in a box type metal frame. The hangers shall be complete with an acoustic rubber element and rubber insert sleeve.

Bases

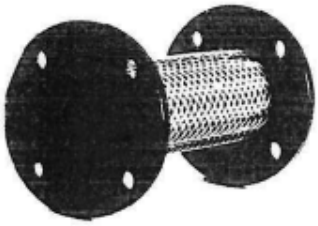


Integral steel fan and motor bases shall be of structural steel construction and rigid enough to resist the bending stress of belt pull. Motor slide base shall be steel fabricated or cast iron as per requirement.



Inertia base forms shall have full depth perimeter structural channel with isolator supports welded to the steel channel sides. An adjustable motor slide rail shall be supplied for fan units requiring same. The inertia base shall clear the sub-base by a minimum of 1 ½". The concrete inertia base shall be 1 ½ times the weight of the supported equipment on basement grade, and 2 times the weight of supported equipment on upper floors, unless stated otherwise. For extreme critical applications consult your Mac AMS Inc. representative.

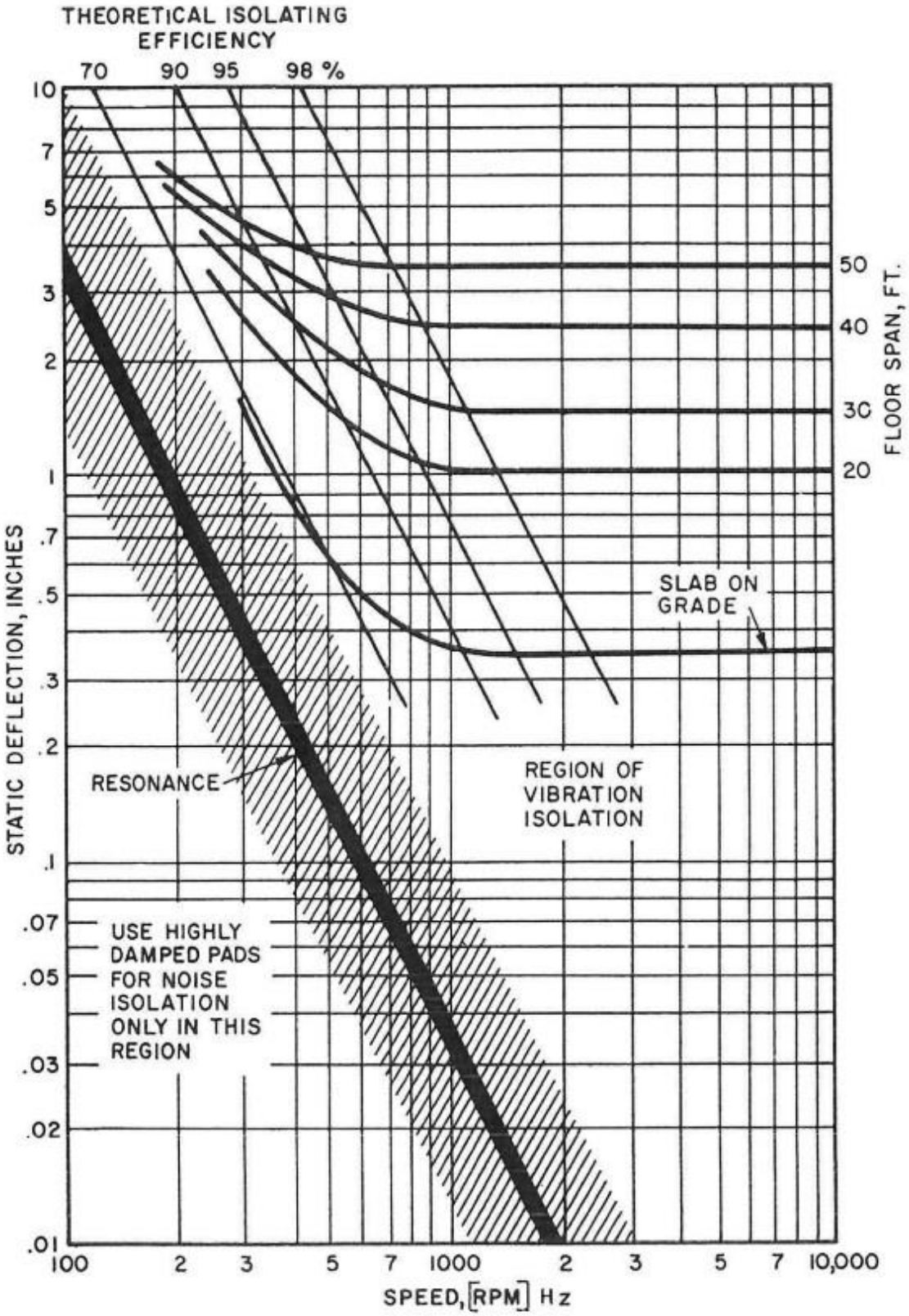
Flexible Connector



Flexible metal connectors shall be Hydro-Flex Hose Ltd. type Flex/Flo where herein specified or shown on the drawings. The flexible connectors are to be manufactured of 300 series stainless steel convoluted metal bellows and braid with 150# ASA drilled carbon steel flanges. All of the bellows are to be filled with SILOFLEX TT100R silicone rubber and the integral gaskets are to be vulcanized to the flange surfaces. The connectors are to be of minimum 12" long with the OL dimension to be full live length. They are to be pressure tested @ 300 psi and suitable for 250 F operating temperature.

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Theoretical Isolation Efficiency



Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Static Deflection Table

TRANSMISSIBILITY (%)													
	1	2	3	4	5	10	20	30	40	50	50	80	100
EFFICIENCY (%)													
RPM	99	98	97	96	95	90	80	70	60	50	40	20	0
100	--	--	--	--	--	--	--	--	--	--	8.64	7.52	6.88
150	--	--	--	--	--	--	8.96	6.56	5.28	4.48	3.84	3.36	3.04
200	--	--	--	--	--	--	4.92	3.68	2.88	2.52	2.16	1.88	1.72
250	--	--	--	--	--	6.68	3.24	2.36	1.92	1.60	1.36	1.20	1.08
300	--	--	--	9.80	8.00	4.08	2.24	1.64	1.32	1.12	0.96	0.84	0.76
350	--	--	9.54	7.18	5.86	2.99	1.64	1.20	0.97	0.82	0.70	0.62	0.56
400	--	--	7.30	5.50	4.50	2.34	1.23	0.92	0.72	0.63	0.54	0.47	0.43
450	--	8.85	5.58	4.34	3.54	1.80	0.99	0.73	0.59	0.50	0.43	0.38	0.34
500	--	7.20	4.68	3.53	2.88	1.47	0.81	0.59	0.48	0.40	0.34	0.30	0.27
550	--	5.95	3.87	2.92	2.38	1.22	0.67	0.49	0.39	0.33	0.29	0.25	0.23
600	9.50	5.00	3.25	2.45	2.00	1.02	0.56	0.41	0.33	0.28	0.24	0.21	0.19
650	8.10	4.25	2.76	2.08	1.70	0.87	0.48	0.35	0.28	0.24	0.20	0.18	0.16
700	7.00	3.68	2.39	1.80	1.47	0.75	0.41	0.30	0.24	0.21	0.18	0.16	0.14
750	5.90	3.10	2.02	1.52	1.24	0.63	0.35	0.25	0.21	0.17	0.15	0.13	0.12
800	5.65	2.82	1.83	1.33	1.13	0.59	0.31	0.23	0.18	0.16	0.14	0.12	0.11
850	4.75	2.50	1.63	1.23	1.00	0.51	0.28	0.21	0.17	0.14	0.12	0.11	0.10
900	4.22	2.21	1.40	1.09	0.89	0.45	0.25	0.18	0.15	0.13	0.11	0.10	0.09
950	3.80	2.00	1.30	0.98	0.80	0.41	0.22	0.16	0.13	0.11	0.10	0.08	0.07
1000	3.42	1.80	1.17	0.89	0.72	0.37	0.20	0.15	0.12	0.10	0.09	0.08	0.07
1100	2.80	1.49	0.92	0.73	0.60	0.31	0.17	0.12	0.10	0.08	0.07	0.06	0.06
1200	2.38	1.25	0.81	0.61	0.50	0.26	0.14	0.10	0.08	0.07	0.06	0.05	0.05
1300	2.03	1.06	0.72	0.52	0.43	0.22	0.12	0.09	0.07	0.06	0.05	0.05	0.04
1400	1.75	0.92	0.60	0.45	0.37	0.19	0.10	0.08	0.06	0.05	0.05	0.04	0.04
1500	1.48	0.78	0.51	0.38	0.31	0.16	0.09	0.06	0.05	0.04	0.04	0.03	0.03
1600	1.41	0.71	0.46	0.33	0.28	0.15	0.08	0.06	0.05	0.04	0.04	0.03	0.03
1700	1.19	0.63	0.41	0.31	0.25	0.13	0.07	0.05	0.04	0.04	0.03	0.03	0.03
1800	1.06	0.55	0.35	0.27	0.22	0.11	0.06	0.05	0.04	0.03	0.03	0.03	0.02
1900	0.95	0.50	0.33	0.25	0.20	0.10	0.06	0.04	0.03	0.03	0.03	0.02	0.02
2000	0.86	0.45	0.29	0.22	0.18	0.09	0.05	0.04	0.03	0.03	0.02	0.02	0.02
2100	0.78	0.41	0.27	0.20	0.16	0.08	0.05	0.03	0.03	0.02	0.02	0.02	0.02
2200	0.70	0.37	0.23	0.18	0.15	0.08	0.04	0.03	0.03	0.02	0.02	0.02	0.02
2300	0.65	0.34	0.22	0.17	0.14	0.07	0.04	0.03	0.02	0.02	0.02	0.01	0.01
2400	0.60	0.31	0.20	0.15	0.13	0.07	0.04	0.03	0.02	0.02	0.02	0.01	0.01
2500	0.55	0.29	0.19	0.14	0.12	0.06	0.03	0.02	0.02	0.02	0.01	0.01	0.01
2600	0.51	0.27	0.18	0.13	0.11	0.06	0.03	0.02	0.02	0.02	0.01	0.01	0.01
2700	0.48	0.25	0.16	0.12	0.10	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01
2800	0.44	0.23	0.15	0.11	0.09	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01
2900	0.41	0.22	0.14	0.11	0.09	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01
3000	0.37	0.20	0.13	0.10	0.08	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Vibration Isolator Selection Guide

Mac AMS Inc. Selection Guide for Vibration Isolators and Required Static Deflection

Type of Equipment		Noncritical Locations		Critical Locations		
		Basement Below Grade	On Grade and 20-ft Floor Span	30-ft Floor Span	40-ft Floor Span	50-ft Floor Span
		Minimum Static Deflection, Inches				
Refrigeration Machines						
Absorption Machines		0.25	0.25	1.0	1.75	2.75
Centrifugal Chillers or	Hermetic	0.25	0.25	1.75	2.5	3.5
Heat Pumps	Open Type	0.35	0.35	1.75	2.5	3.5
Reciprocating Air or	500 to 750 rpm	1.0	1.5	2.5	2.75	3.5
Refrigeration Compressors	751 rpm and higher	1.0	1.0	1.5	2.5	2.75
Packaged Boilers		0.25	0.25	1.0	1.75	2.75
Pumps						
Close Coupled	Through 5 hp	0.35	0.35	1.0	1.0	1.0
	7 ½ hp and higher	0.75	1.0	1.5	2.5	2.5
Base Mounted	Through 5 hp	0.35	0.35	1.5	1.75	2.5
	7 ½ hp and higher	1.0	1.0	1.75	2.5	3.5
Vent Sets and Low-Pressure Packaged AH, AC, and H&V units	Through 5 hp 7 ½ hp and higher	0.75	1.0	1.0	1.0	1.0
Suspended Units	175-500 rpm	1.25	1.25	1.25	1.75	2.5
	501 rpm and higher	1.0	1.0	1.0	1.25	1.75
	Through 5 hp 7 ½ hp and higher	0.35	1.0	1.0	1.0	1.0
Floor Mounted	175-500 rpm	0.35	1.75	1.75	1.75	2.5
	501 rpm and higher	0.35	1.0	1.0	1.5	1.75
Centrifugal Fans and High Pressure Packaged AH, AC And H&V Units	Through 20 hp 175 to 300 rpm	0.35	2.5	2.5	3.5	5.0
	301 to 500 rpm	0.35	1.75	1.75	2.5	3.5
	501 rpm and higher	0.35	1.0	1.0	1.75	2.5
Floor Mounted Units	20 hp and higher					
	175 to 300 rpm	0.35	2.5	3.5	5.0	5.5
	301 to 500 rpm	0.35	1.75	2.5	3.5	5.0
	501 rpm and higher	0.35	1.0	1.75	2.5	3.5
Cooling Towers and Evaporative Condensers	Up to 500 rpm	0.35	0.35	1.75	2.5	3.5
	501 rpm and higher	0.35	0.35	1.0	1.75	2.5
Internal Combustion Engines and Engine Driven Equipment	Up to 25 hp	0.35	0.35	1.75	2.5	2.5
	30 to 100 hp	0.35	1.75	2.5	3.5	3.5
	125 hp and higher	0.35	2.5	3.5	5.0	5.0

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

Inertia Base Thickness Data

RECOMMENDED INERTIA BASE THICKNESS

EQUIPMENT H.P.	PUMP / AIR COMPRESSOR	FANS
3 and LOWER	4" THICK	4" THICK
5 and 7 ½	6" THICK	6" THICK
10 to 25	10" THICK	8" THICK
30 to 60	12" THICK	10" THICK
75 to 125	16" THICK	12" THICK
150 and OVER	(CHECK WITH HEAD OFFICE)	

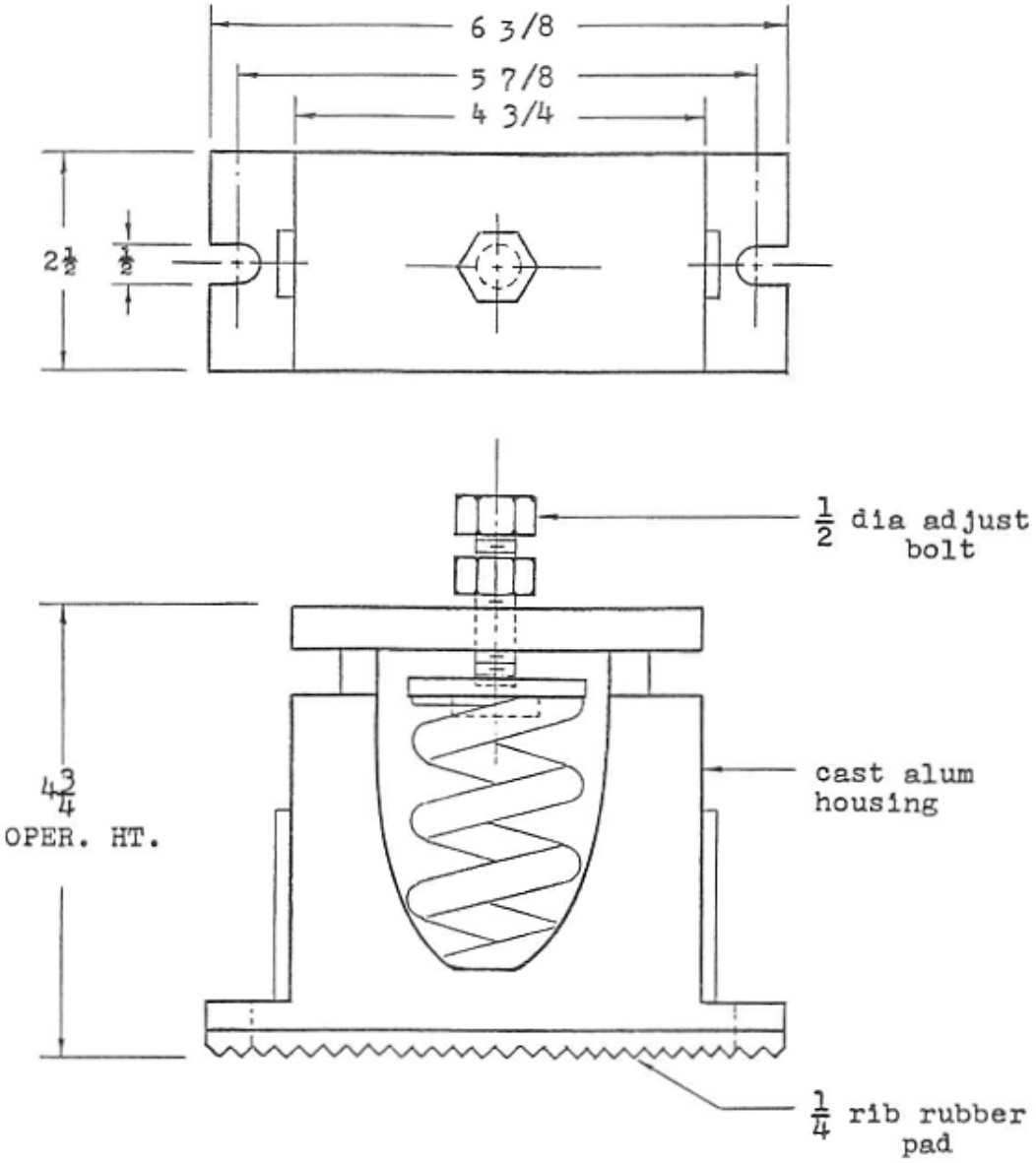
ALL SINGLE PISTON COMPRESSORS MUST BE CHECKED AT HEAD OFFICE PRIOR TO QUOTING. INERTIA BASE THICKNESS FOR THESE EQUIPMENT COULD RANGE FROM 4 TO 12 TIMES OF THE WEIGHT OF THE EQUIPMENT.

Reference No. ED:004

Mac AMS Inc.

VIBRATION ISOLATION EQUIPMENT

DRAWINGS



Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
ASL-1-200	WHITE	40	1.1
ASL-1-201	BLUE	60	1.4
ASL-1-202	ALUM.	100	1.2
ASL-1-203	YELLOW	150	1.2
ASL-1-204	BROWN	250	1.3
ASL-1-205	ORANGE	340	1.1

Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
ASL-1-206	GREEN	500	1.0
ASL-1-207	RED	600	0.9
ASL-1-208	BLACK	800	0.8
ASL-1-209	GOLD	1000	0.5
ASL-1-210	TITAN	1500	0.5

MODEL ASL-1

SPRING ISOLATOR

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT
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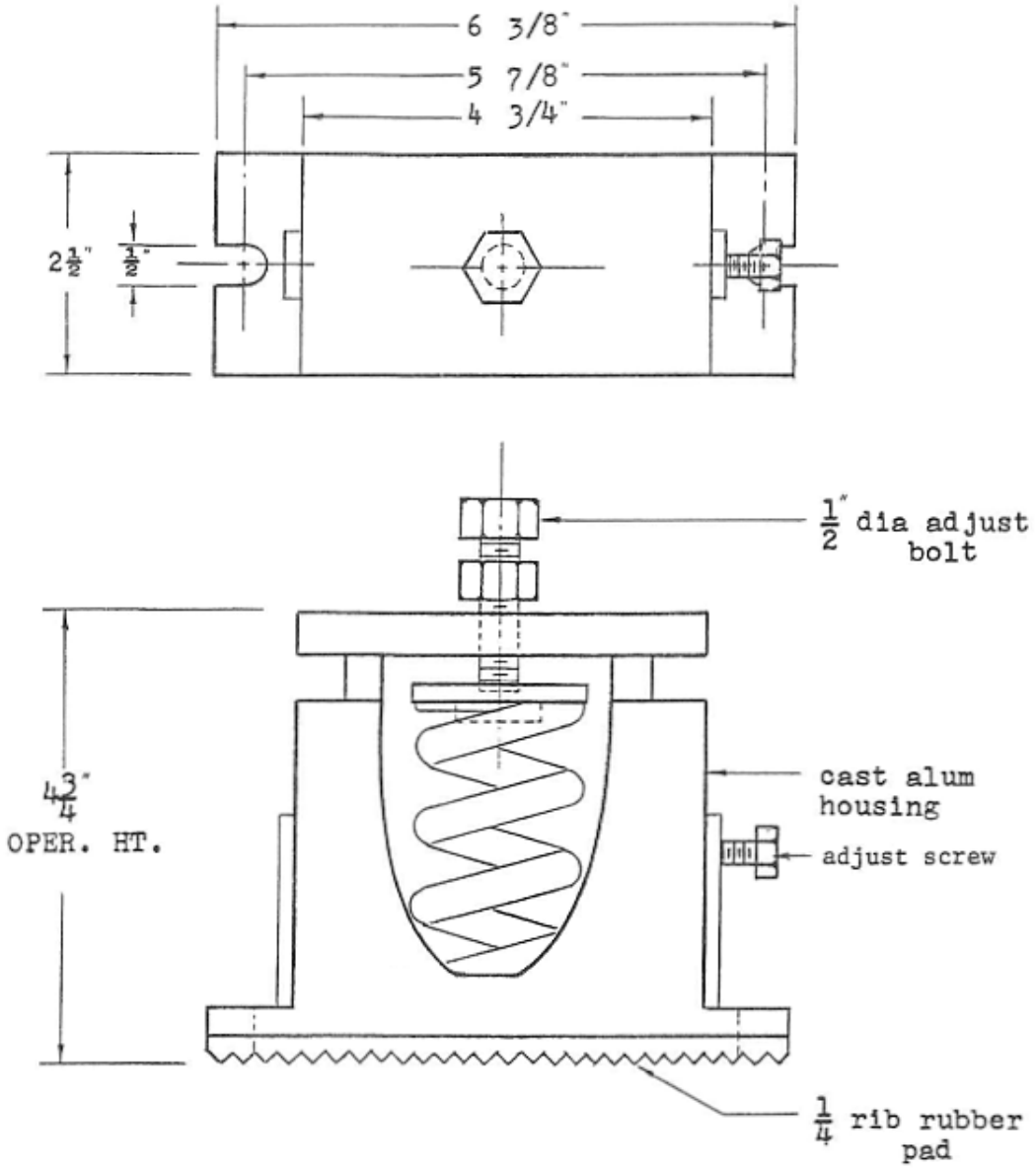
DRAWING NO. **ASL-100**



Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
ASL-1-200	WHITE	40	1.1
ASL-1-201	BLUE	60	1.4
ASL-1-202	ALUM.	100	1.2
ASL-1-203	YELLOW	150	1.2
ASL-1-204	BROWN	250	1.3
ASL-1-205	ORANGE	340	1.1

Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
ASL-1-206	GREEN	500	1.0
ASL-1-207	RED	600	0.9
ASL-1-208	BLACK	800	0.8
ASL-1-209	GOLD	1000	0.5
ASL-1-210	TITAN	1500	0.5

MODEL ASL-1A

ADJUSTABLE SNUBBER

SPRING ISOLATOR

Mac AMS Inc.
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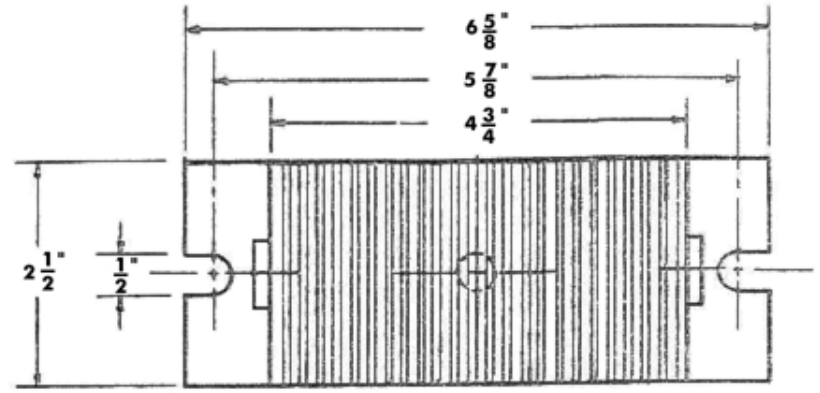
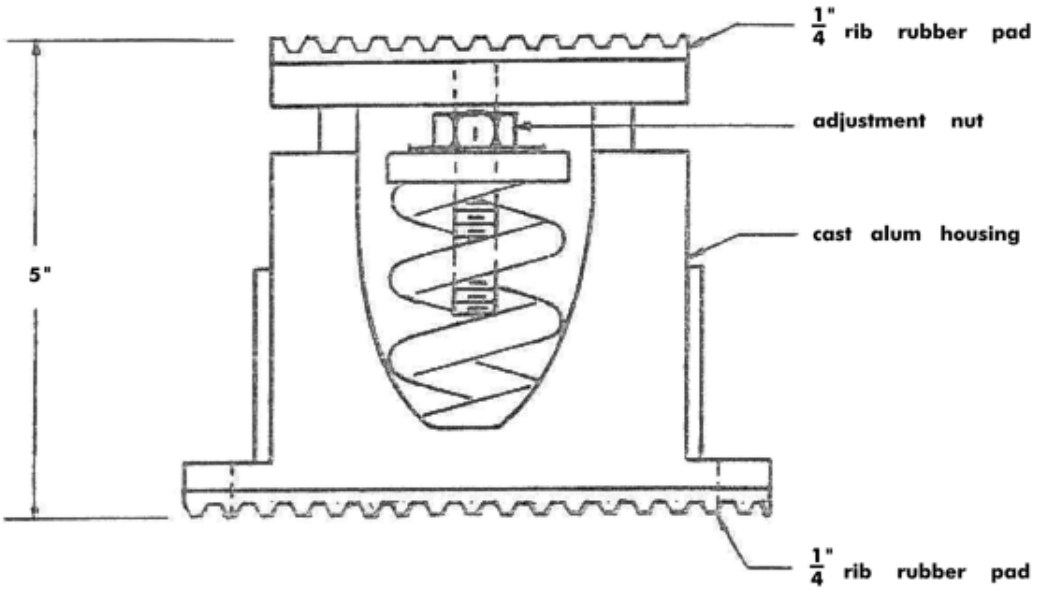
DRAWING NO. **ASL-101A**





Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
ASL-1-200	WHITE	40	1.1
ASL-1-201	BLUE	60	1.4
ASL-1-202	ALUM.	100	1.2
ASL-1-203	YELLOW	150	1.2
ASL-1-204	BROWN	250	1.3
ASL-1-205	ORANGE	340	1.1

Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
ASL-1-206	GREEN	500	1.0
ASL-1-207	RED	600	0.9
ASL-1-208	BLACK	800	0.8
ASL-1-209	GOLD	1000	0.5
ASL-1-210	TITAN	1500	0.5

MODEL ASL-1U

SPRING ISOLATOR

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VIBRATION ISOLATION EQUIPMENT
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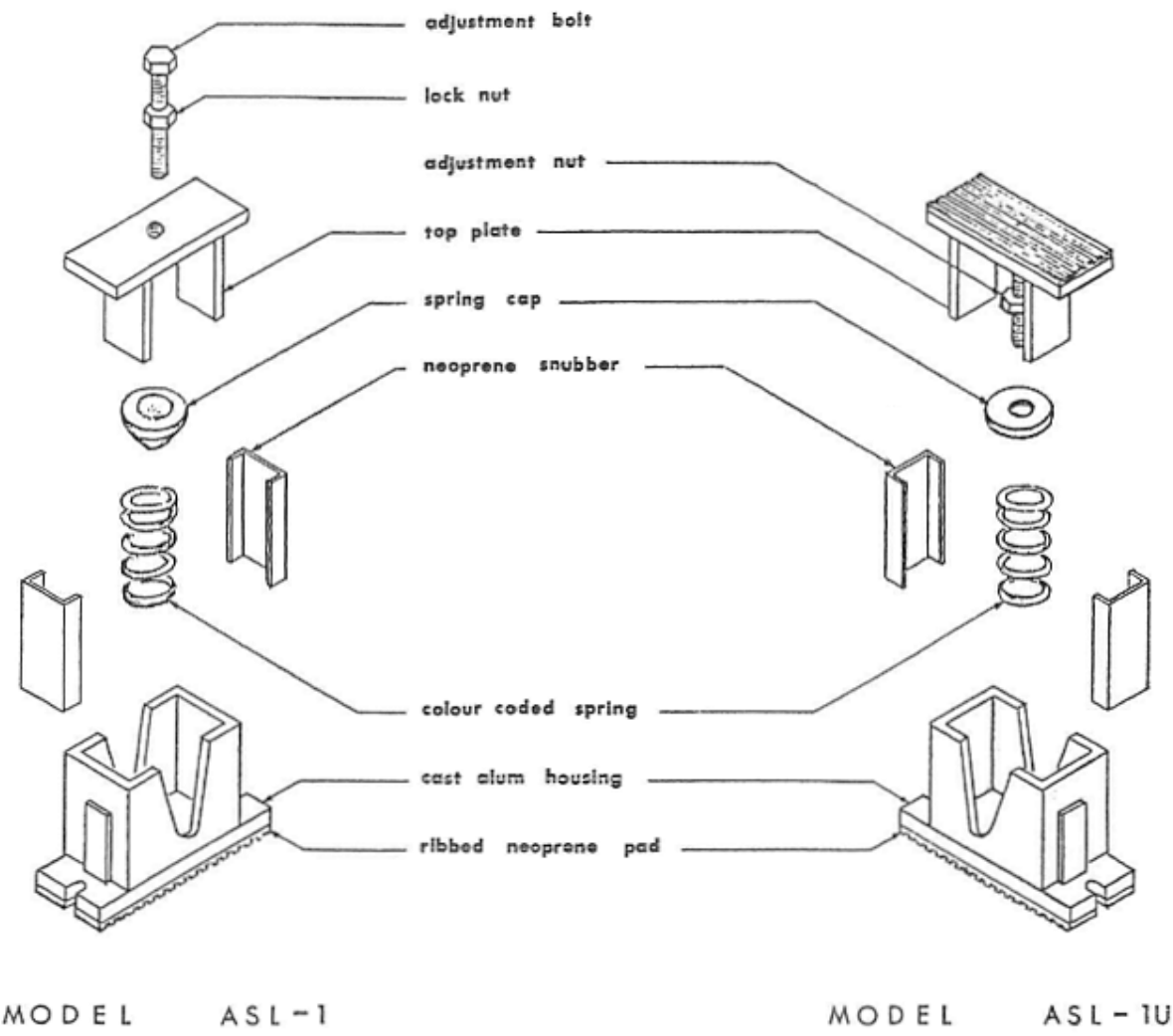
DRAWING NO. **ASL-103**



1. Locate the isolators in their proper position under the equipment. See submittal drawings for correct location. Isolators should be set on a flat, level surface. Shims, if required, should be full size.
2. Begin compressing the springs by turning the adjustment bolt or nut clockwise. Start at one isolator and make five turns, move to the diagonal isolator and make five turns, etc., until all isolators have been adjusted five turns. Repeat until a ¼" clearance is obtained between top plate and housing.
3. Check the level of the equipment. Small adjustment of individual isolator at the high and low points may now level the equipment.
4. Check the isolator to make sure the spring coils are not closed solid and there is sufficient clearance between top plate and housing.

INSTALLATION INSTRUCTIONS

FOR

HOUSED SPRING ISOLATORS

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VIBRATION ISOLATION EQUIPMENT
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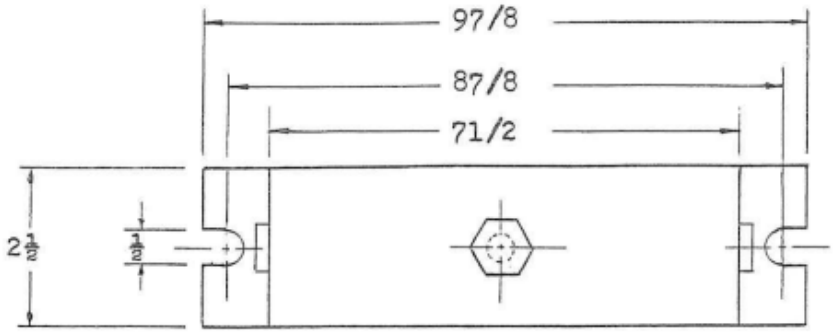
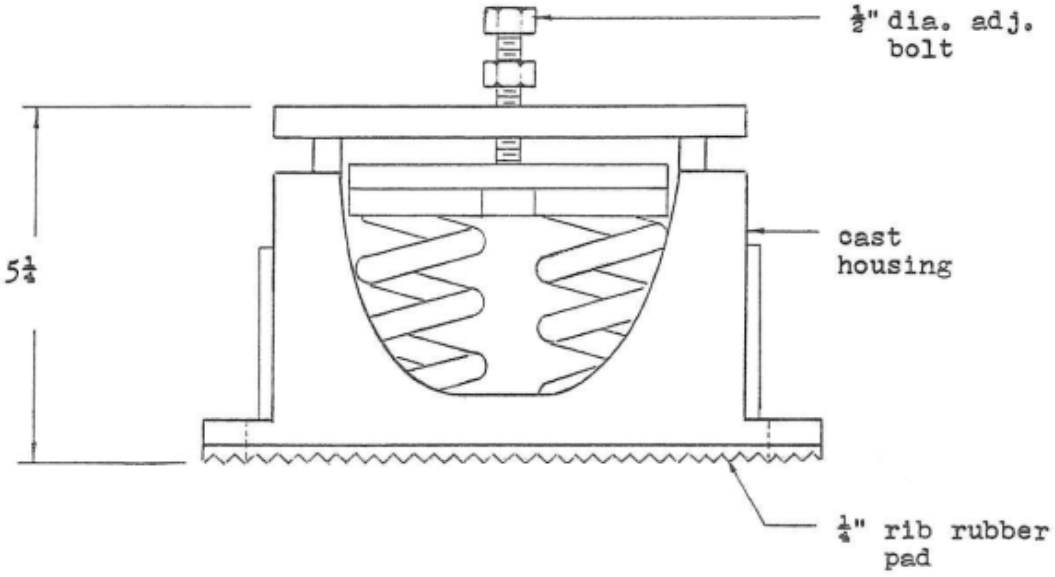
DRAWING NO. **ASL-104**





Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
ASL-2-204	BROWN	500	1.3
ASL-2-205	ORANGE	680	1.1
ASL-2-206	GREEN	1000	1.1
ASL-2-207	RED	1200	0.9
ASL-2-208	BLACK	1600	0.8
ASL-2-209	GOLD	2000	0.5
ASL-2-210	TITAN	3000	0.5

MODEL ASL-2

SPRING ISOLATOR

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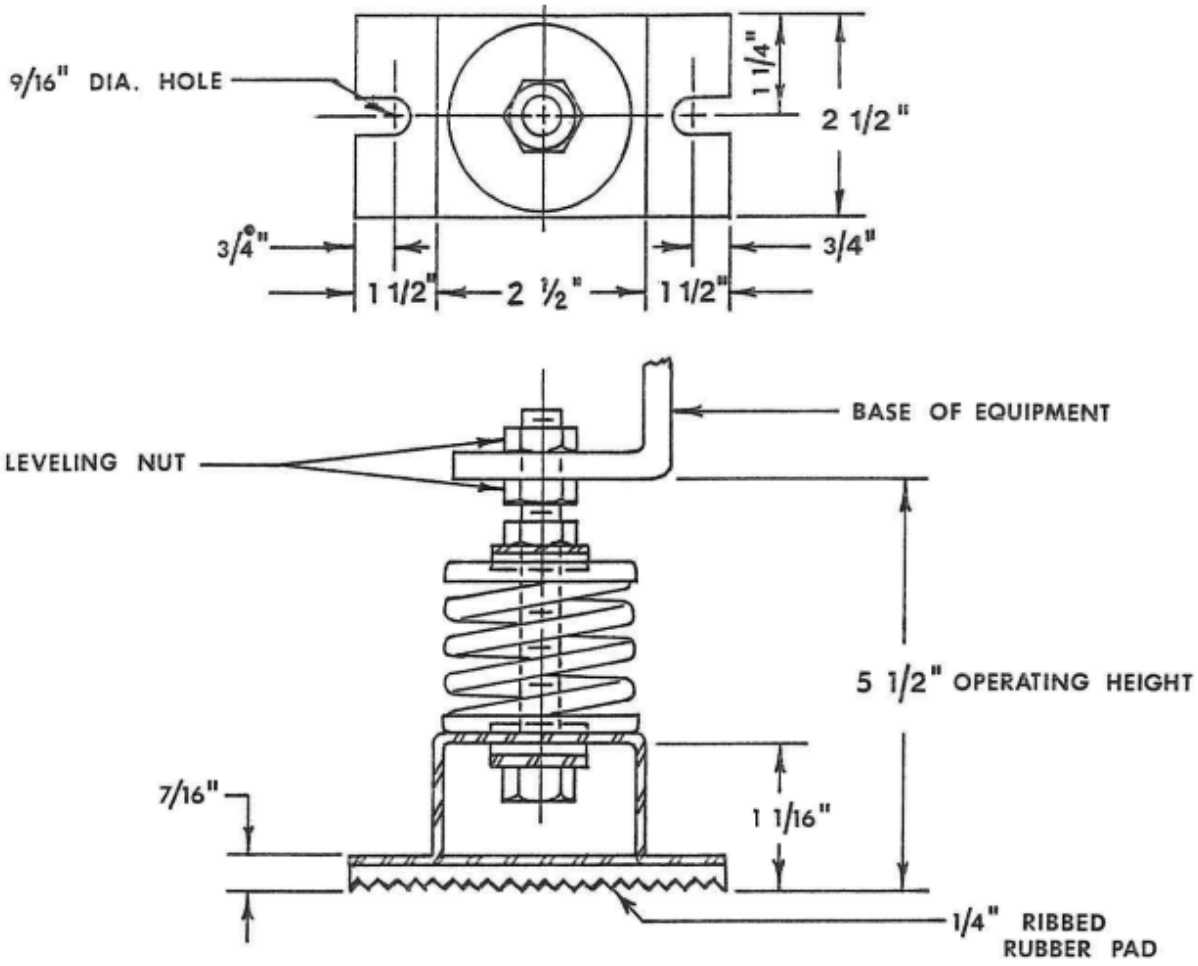
DRAWING NO. **ASL-200**



Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
OST-200	WHITE	40	1.1
OST-201	BLUE	60	1.4
OST-202	ALUMINUM	100	1.2
OST-203	YELLOW	150	1.2
OST-204	BROWN	250	1.3
OST-205	ORANGE	340	1.1
OST-206	GREEN	500	1.0
OST-207	RED	600	0.9
OST-208	BLACK	800	0.8

MODEL OST

SPRING MOUNT

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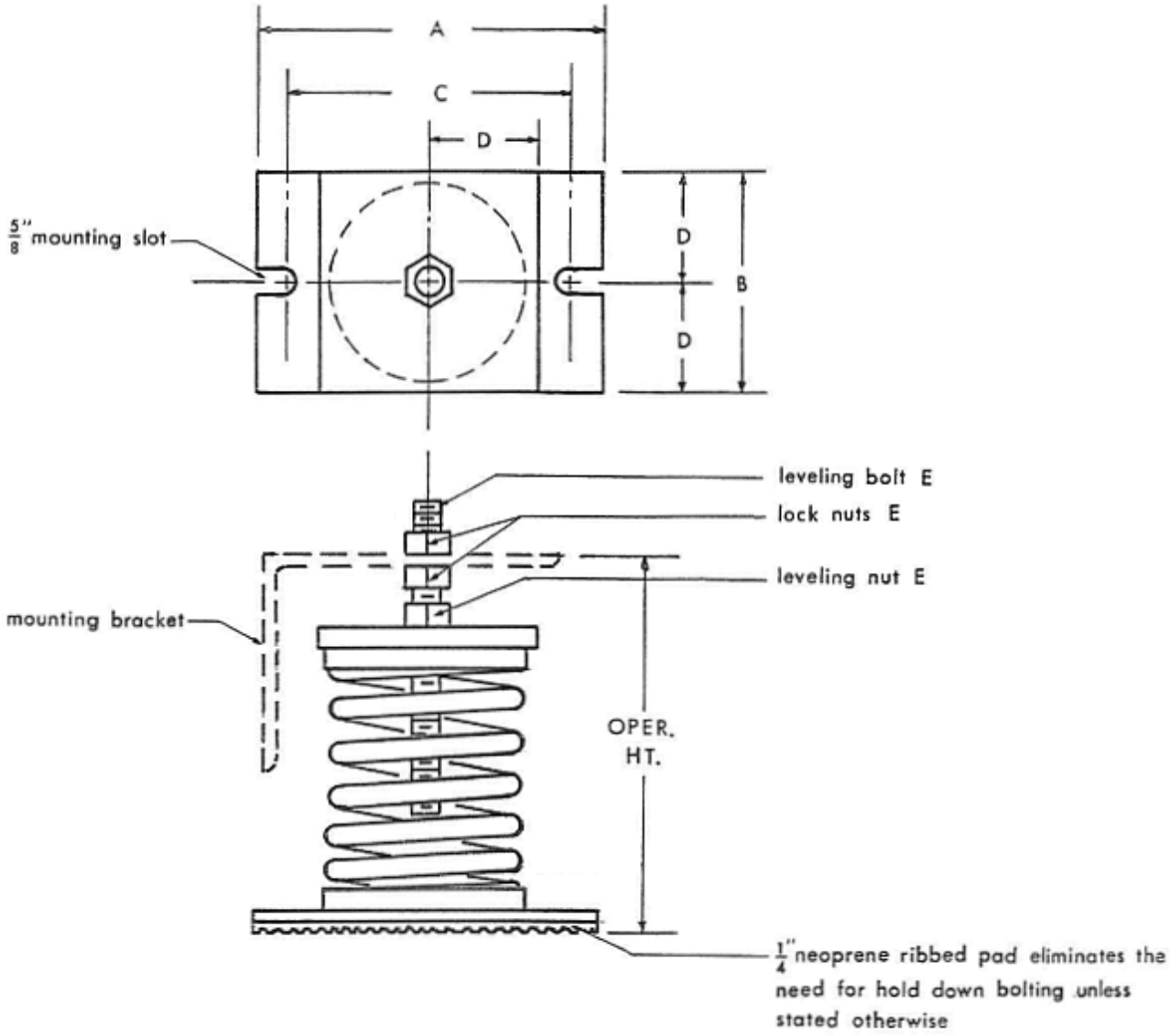
DRAWING NO. **OST-100D**



Model Number	A	B	C	D	E	Load Range (Lbs.)	Defl. (Inches)	Oper. Height
OSM-1-400 to 407	8"	5"	6 ½"	2 ½"	⅝"	100 – 2100	2.0	8
OSM-1-600 to 607	10"	7"	8 ½"	3 ½"	⅞"	220 – 5000	3.0	12
OSM-1-800 to 806	12"	9"	10 ½"	4 ½"	⅞"	600 – 5500	5.5	16

MODEL OSM-1

OPEN SPRING ISOLATOR

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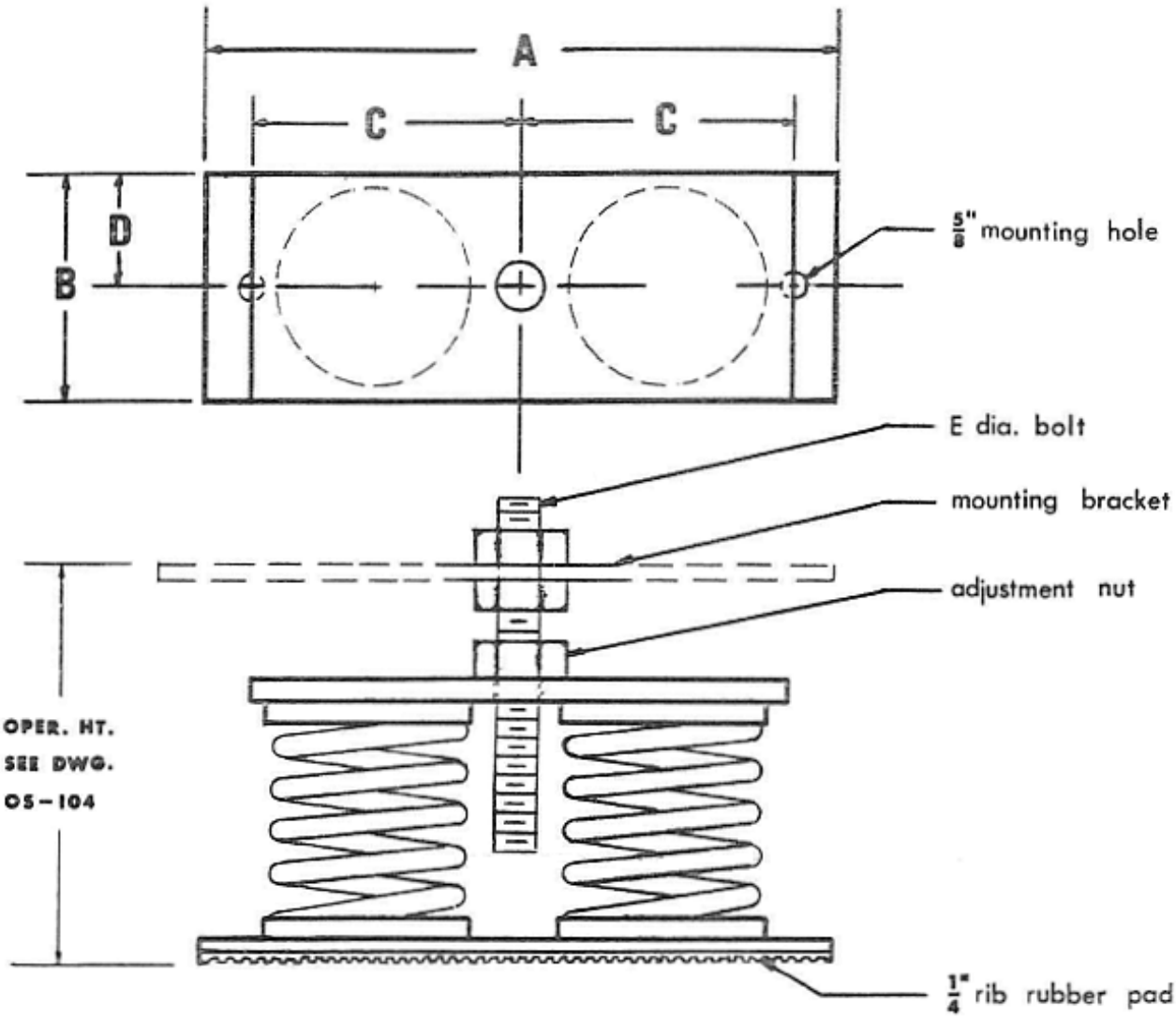
(204) 222-8590 donp@macams.com www.macams.com

DRAWING NO. **OS-100A**



Model Number	A	B	C	D	E
OSM-2-400	14"	5"	6"	2 ½"	⅞"
OSM-2-600	18 ½"	7"	7 ¾"	3 ½"	⅞"
OSM-2-800	21"	9"	9"	4 ½"	1"

MODEL OSM-2

OPEN SPRING ISOLATOR

Mac AMS Inc.
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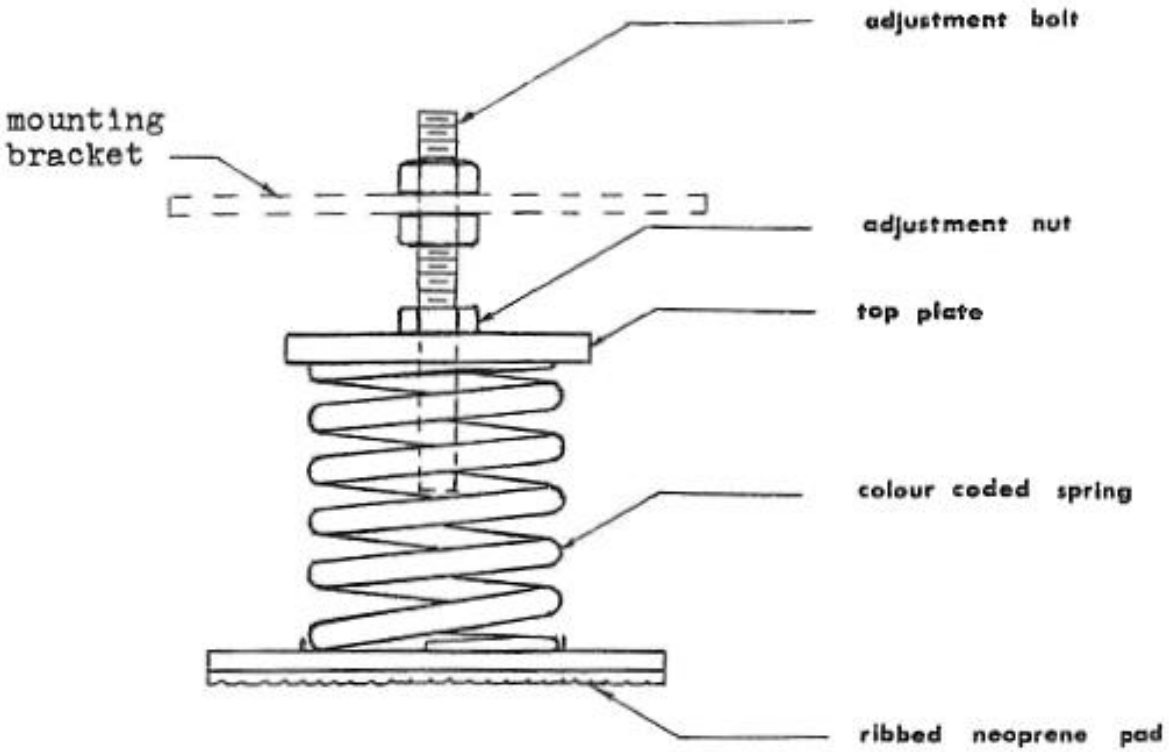
DRAWING NO. **OS-103**



1. Locate the isolators in their proper position under the equipment. See submittal drawings for correct location. Isolators should be set on a flat, level surface. Shims, if required, should be full size.
2. Begin compressing the springs by turning the adjustment bolt or nut clockwise. Start at one isolator and make five turns, move to the diagonal isolator and make five turns, etc., until all isolators have been adjusted five turns. Repeat until specified deflection is achieved.
3. Check the level of the equipment. Small adjustment of individual isolator at the high and low points may now level the equipment.
4. Check the isolator to make sure the spring coils are not closed solid and there is sufficient clearance between the equipment base and the floor.

INSTALLATION INSTRUCTIONS

FOR

OPEN SPRING ISOLATORS

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

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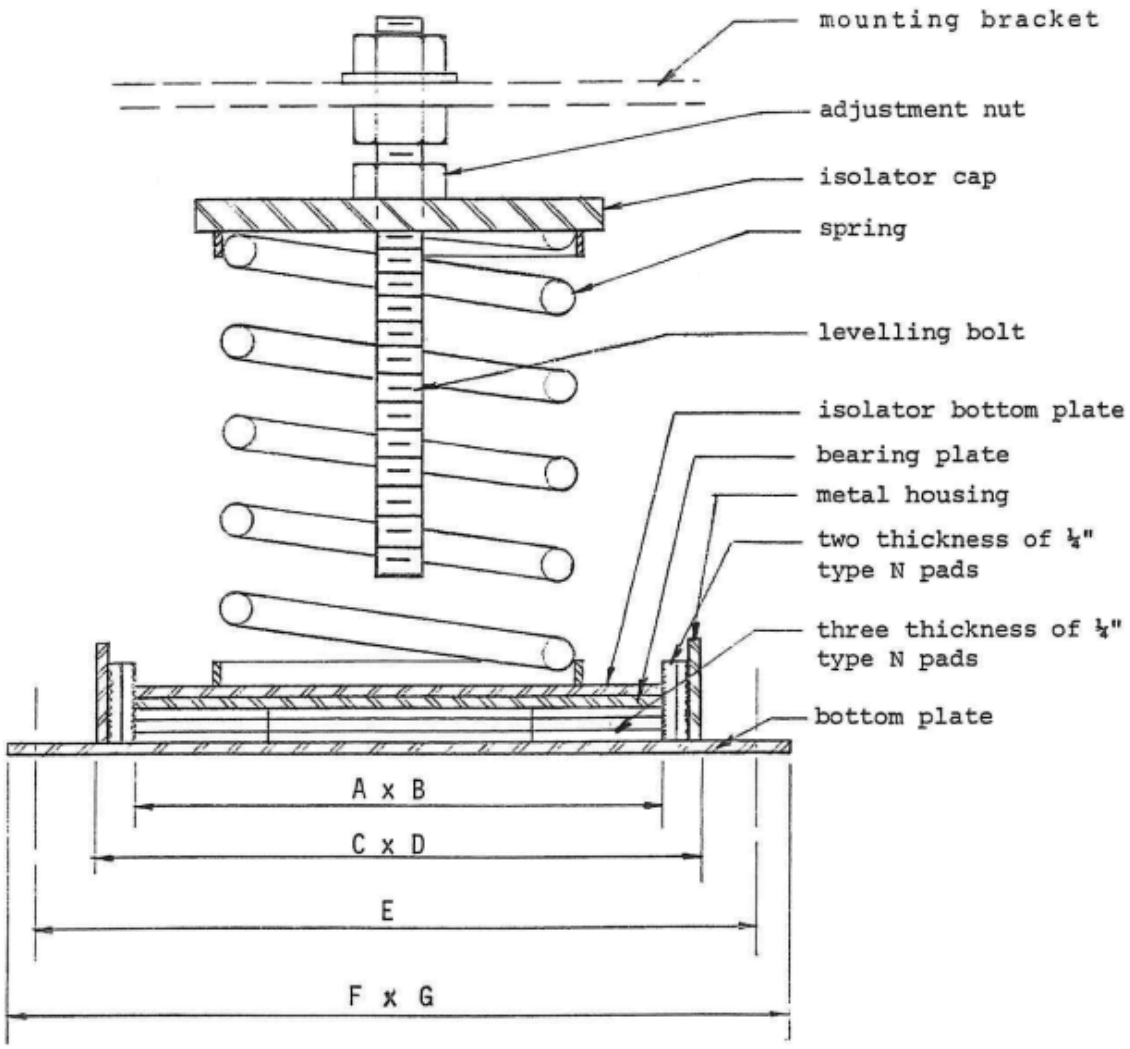
DRAWING NO. **OS-105**



Model Number	A x B	C x D	E	F	G
OSMS-1-400	8" x 5"	9 ½" x 6 ½"	6"	2 ½"	⅞"
OSMS-1-600	10" x 7"	11 ½" x 8 ½"	7 ¾"	3 ½"	⅞"
OSMS-1-800	21"	13 ½" x 10 ½"	9"	4 ½"	1"

TYPE BBN MODEL OSMS-1

OPEN SPRING ISOLATOR

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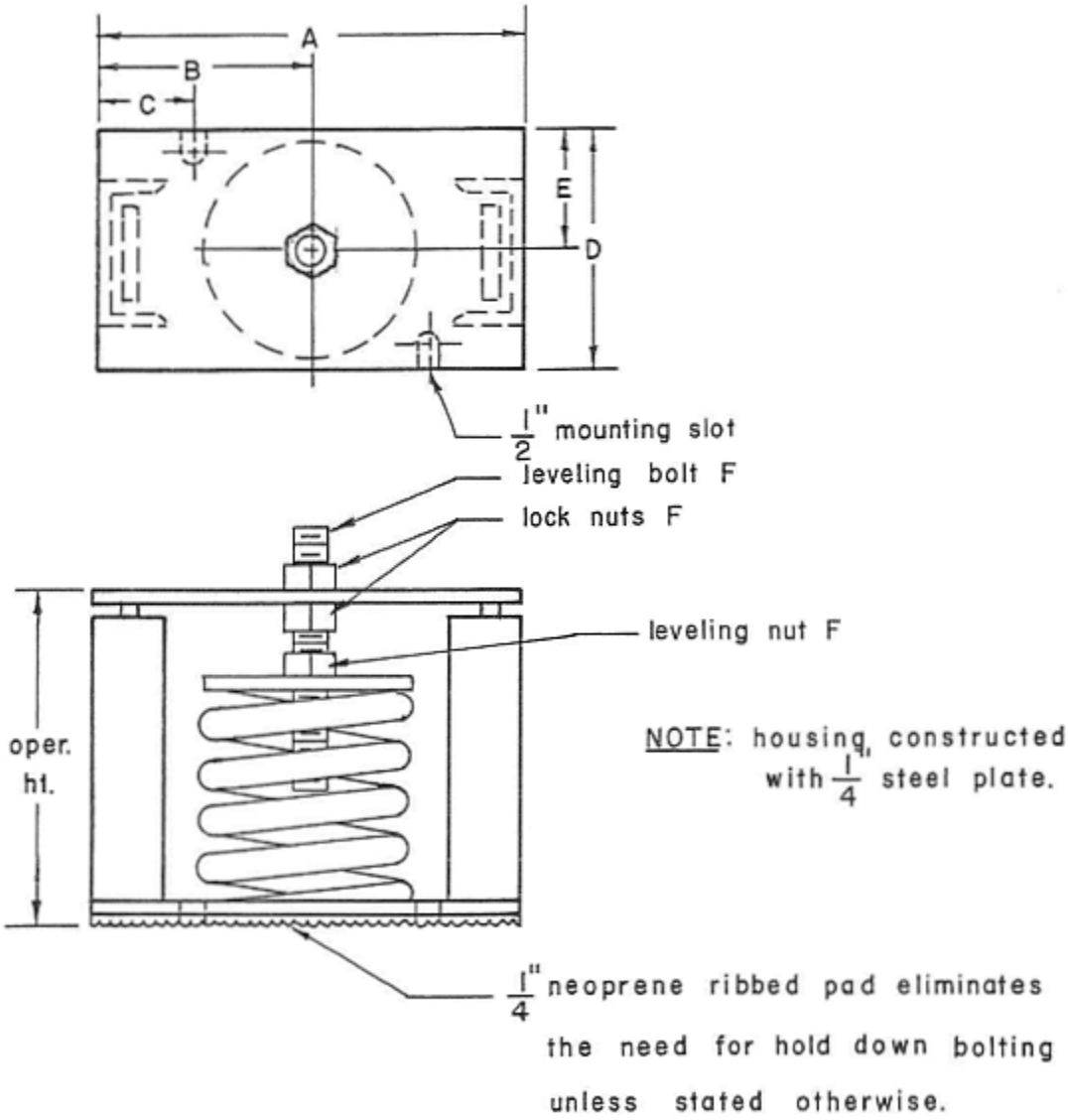
DRAWING NO. **OS-106**



Model Number	A	B	C	D	E	F	Load Range (Lbs.)	Oper. Height
CSM-1-400 to 407	9"	4 ½"	2 ⅛"	5"	2 ½"	⅝"	100 - 2100	9"

SERIES CSM 400

CLOSED SPRING ISOLATOR

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DRAWING NO. **CSM-100**

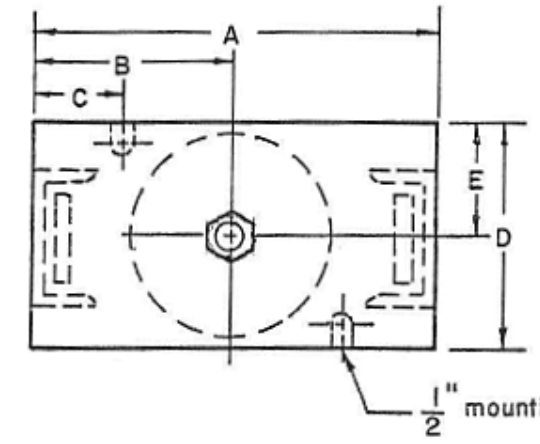
1. Block all equipment to its proper operating height. Connect all piping or ductwork. Proceed to install isolation as follows.

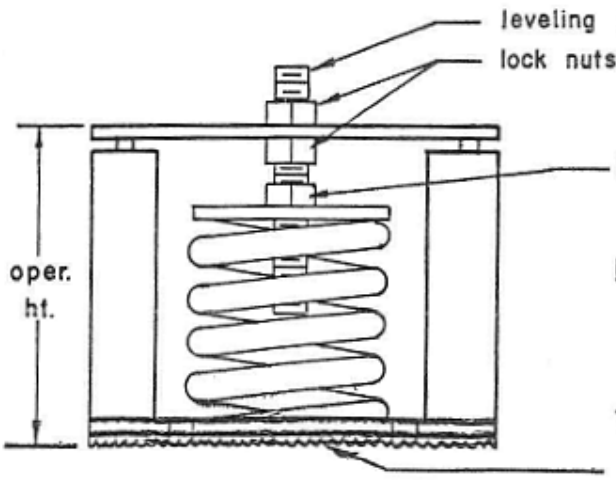
2. Locate the colour coded spring isolators in their proper position under the equipment. See submittal drawings for correct location. Isolators should be set on a flat level surface. Shims, if required, should be full size.

3. Begin compressing the springs by turning the adjustment bolt or nut clockwise. Start at one isolator and make five turns, move to the diagonal isolator and make five turns, etc., until all isolators have been adjusted five turns. Repeat until specified deflection is achieved.

4. Check the level of the equipment. Small adjustment of individual isolator at the high and low points may now level the equipment.

5. Check each isolator to make sure that the spring coils are not closed solid and there is sufficient clearance between the equipment base and the floor.





NOTE: housing constructed with 1/4" steel plate.

1/4" neoprene ribbed pad eliminates the need for hold down bolting unless stated otherwise.

SERIES CSM 400

INSTALLATION INSTRUCTIONS

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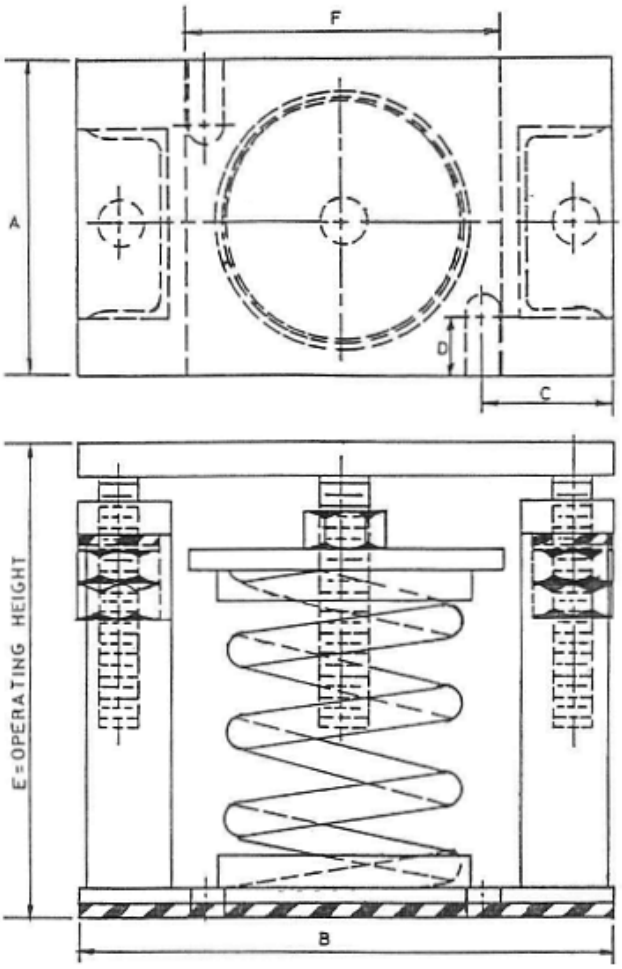
DRAWING NO. **CSM-101**



Model Number	Load Range (Lbs.)	Rated Static Deflection	A	B	C	D	E	F
KW-1-200	40 – 1500	¾"	2 ½"	6"	1 ¼"	¾"	5 ¼"	⅝"
KW-2-200	80 – 3000		2 ½"	8"				5"
KW-4-200	160 – 6000		5"	8"				
KW-1-400	100 – 2100	2"	5"	10"	2 ½"	¾"	9 ½"	5"
KW-2-400	200 – 4200			17"				12"
KW-1-600	220 – 5000	3"	7"	13"	2 ½"	¾"	12"	7"
KW-2-600	440 – 10000			21"				15 ½"
KW-1-800	600 – 5500	5 ½"	10"	15"	2 ½"	¾"	16"	9"
KW-2-800	1200 – 11000			24"				18"

MODEL KW

SPRING MOUNT

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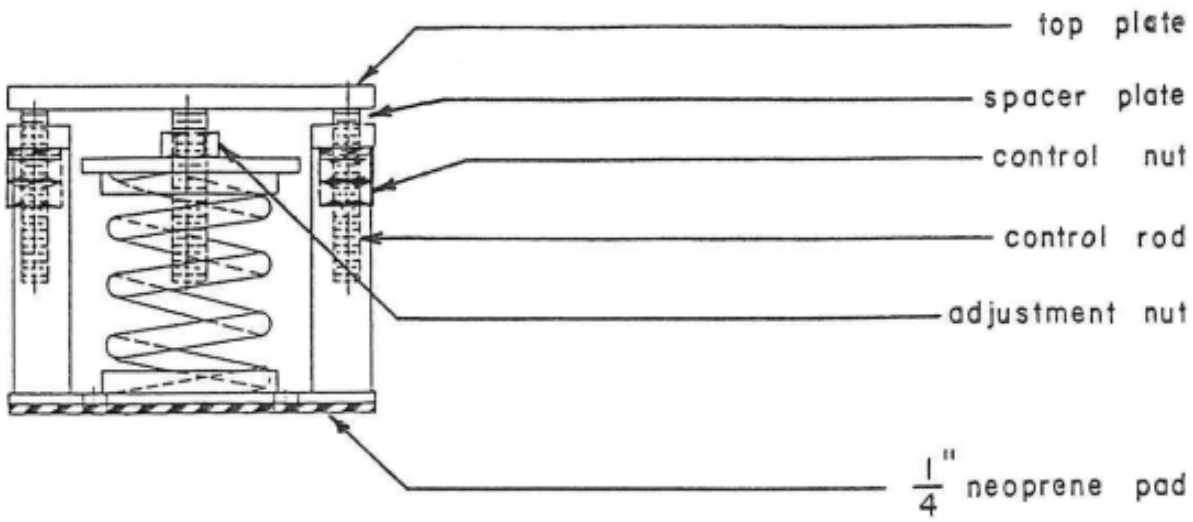
DRAWING NO. **KW-100A**



1. Locate the isolators in their proper position under the equipment. See submittal drawings for correct locations. Isolators should be set on a flat surface. If shims are required, they should be full size. Ensure that a space plate with a minimum thickness of ¼" is installed in its location prior to installing isolators into position.
2. The equipment should be bolted or tack welded to the top plate of the isolator. Upon completion of the same, the isolators should not be adjusted until after service connection and equipment is operable.
3. Unscrew the control nuts on each side of the isolator approximately ½". Begin compressing the springs by turning the adjustment nut clockwise. Start at one end of the equipment and make five turns, move to the next isolator and make five turns, etc., until all the isolators have been adjusted five turns. Repeat until spacer plate can be removed. At this point, the equipment is isolated and level.
4. Check each isolator to make sure the spring coils are not closed solid and there is sufficient clearance between top plate and housing.
5. When emptying equipment, tighten control nuts on each side. This will eliminate excessive strain on the service connection. Also, the equipment will remain isolated upon reloading. No further adjustments will be necessary. Loosen control nuts and equipment will be isolated to its original state.

INSTALLATION INSTRUCTIONS

FOR

MODEL-KW ISOLATORS

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

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Sunnyside, MB R5R 0E6
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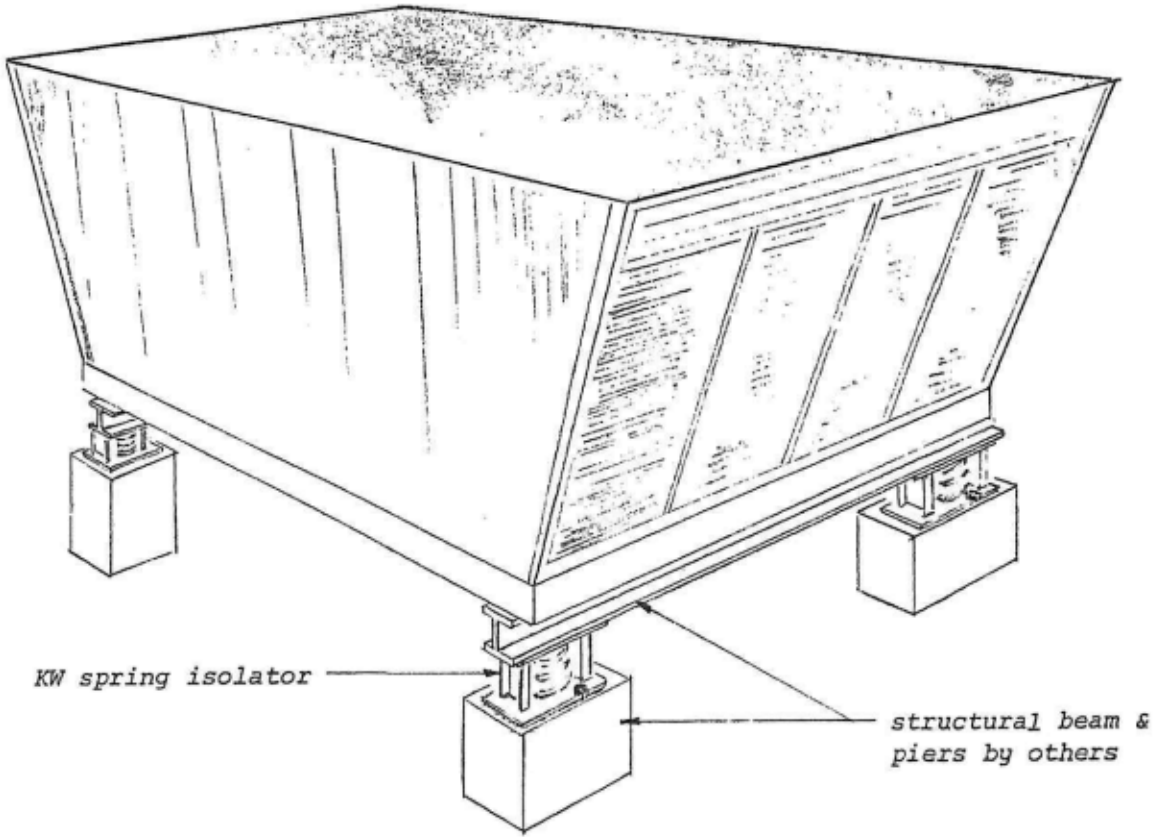
DRAWING NO. **KW-102A**



NOTE: Isolators MUST be fastened down by either BOLTING or WELDING to structural beam and pier by the Installing Contractor.

MODEL-KW ISOLATOR

COOLING TOWER

INSTALLATION DETAIL

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

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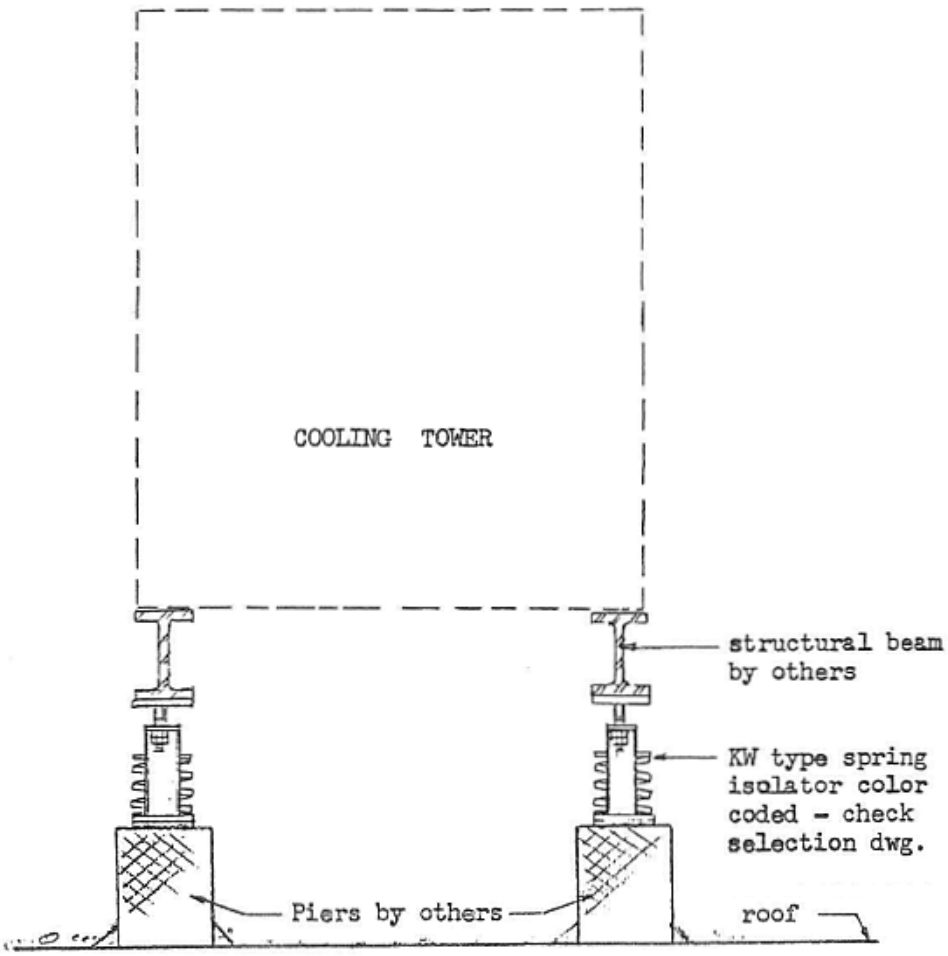
DRAWING NO. **ID-200**



END VIEW

NOTE: Isolators MUST be fastened down by either BOLTING or WELDING by the Installing Contractor.

MODEL-KW ISOLATOR
COOLING TOWER
INSTALLATION
TYPICAL DETAIL

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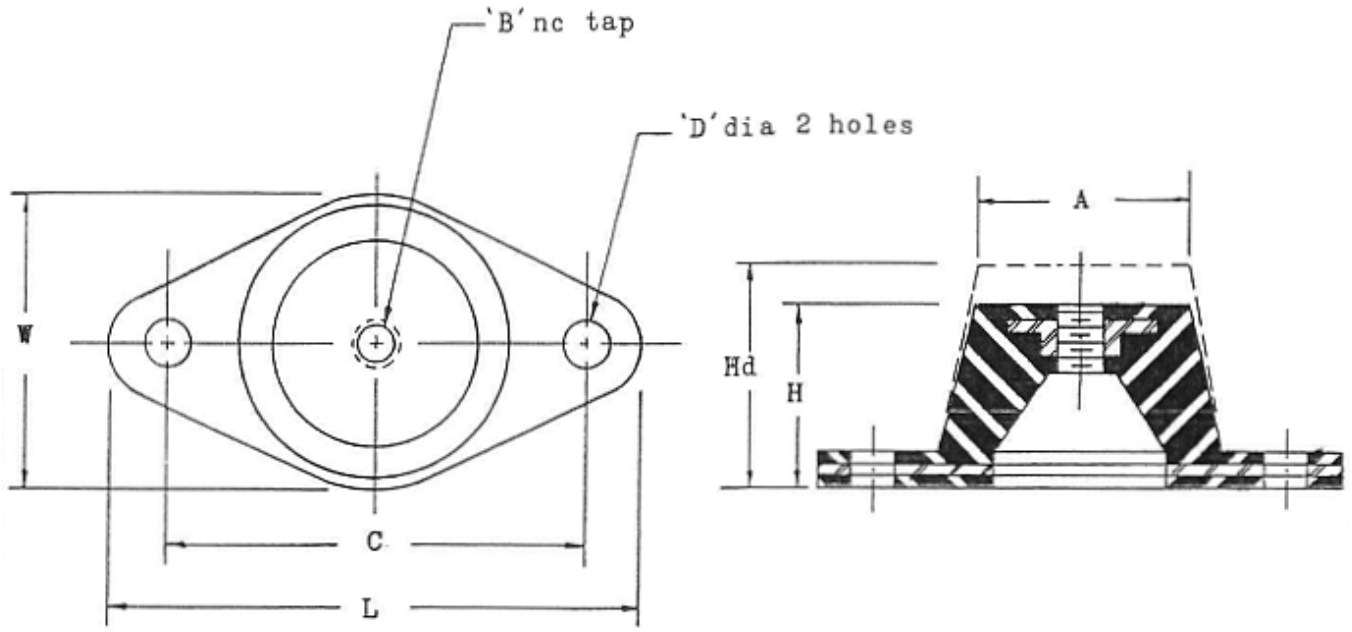
DRAWING NO. **ID-1001**



Mountings		Max Load (Lbs.)	AR Defl.	ARD Defl.	L	W	H*	Hd**	A	B	C	D	Wt. (Lbs.)
	BLACK	45											
AR 1	RED	70	0.20"	0.40"	3"	1 5/8"	1"	1 1/4"	1 1/4"	5/16"	2 3/8"	11/32"	0.25
	GREEN	120											
	BLACK	170											
AR 2	RED	240	0.25"	0.50"	3 3/4"	2 1/4"	1 1/4"	1 3/4"	1 3/4"	3/8"	3"	11/32"	0.5
	GREEN	380											
	RED	525											
AR 3	GREEN	750	0.25"	0.50"	5 3/8"	3 1/4"	1 3/4"	2 7/8"	2 9/16"	1/2"	4 1/8"	9/16"	1
	GRAY	1100											
	BLACK	1500											
	RED	2250											
AR 4	GREEN	3000	0.25"	0.50"	6 1/4"	4"	1 3/4"	2 7/8"	3 3/4"	5/8"	5"	9/16"	2.5
	GRAY	4000											

*DIMENSION 'H' IS FOR SINGLE DEFLECTION TYPE AR MOUNT

**DIMENSION 'Hd' IS FOR DOUBLE DEFLECTION TYPE ARD MOUNT

RUBBER - IN - SHEAR

MOUNTINGS

MODEL AR & ARD

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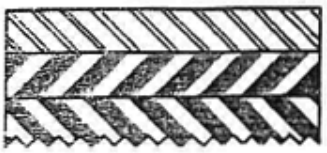
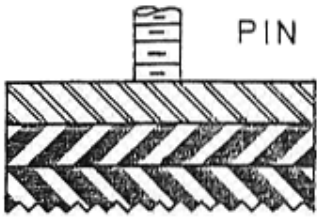
DRAWING NO. **AR-100**

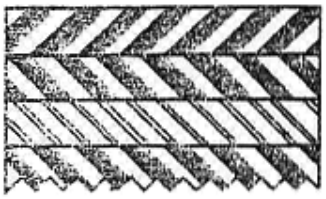
2N



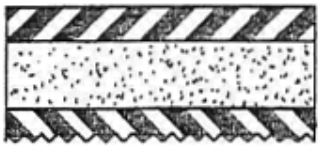
2NS



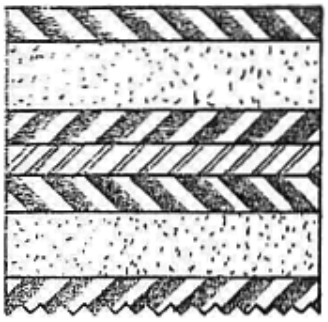
1NPS 1/4 NEOP.
2NPS 1/2 NEOP.



NSN



3CN4



3CN8

VIBRATION PAD

ISOLATORS

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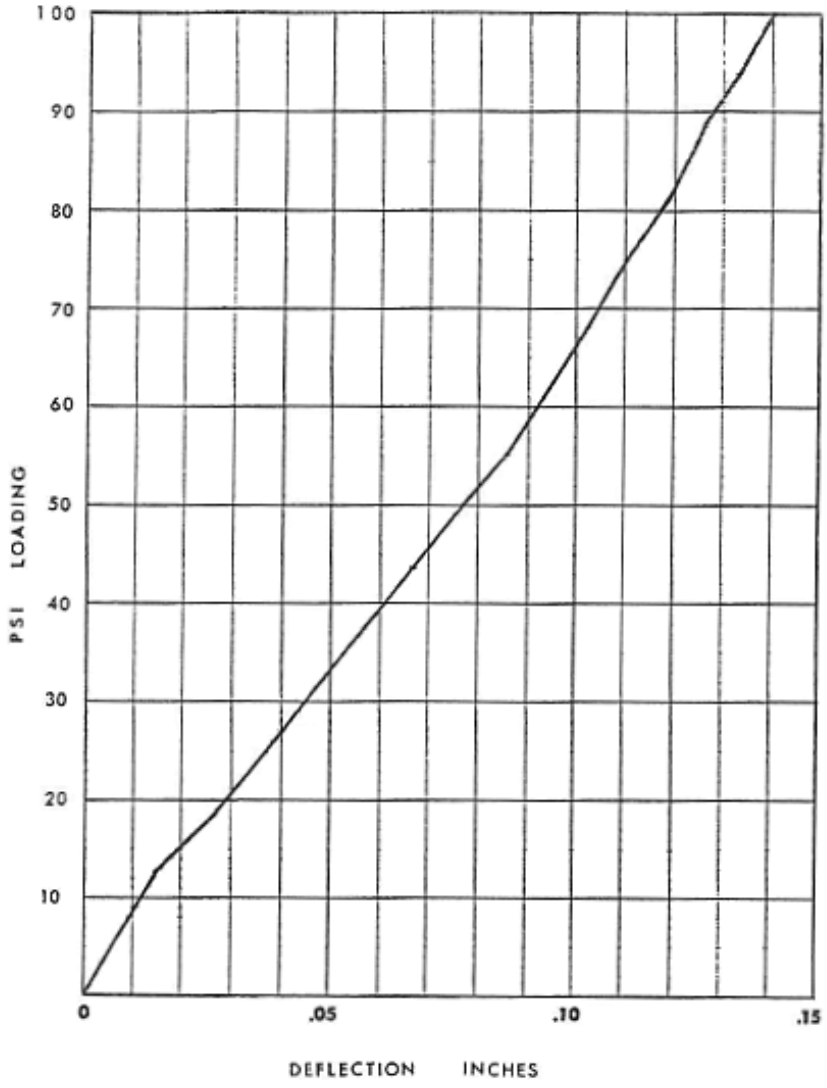
DRAWING NO. **VPI-101**



MATERIAL:

Neoprene material 50 – 55 durometer, 4 ribs per inch.

Above curve based on 2N ribbed pads.

VIBRATION PAD

ISOLATORS

DEFLECTION CHART

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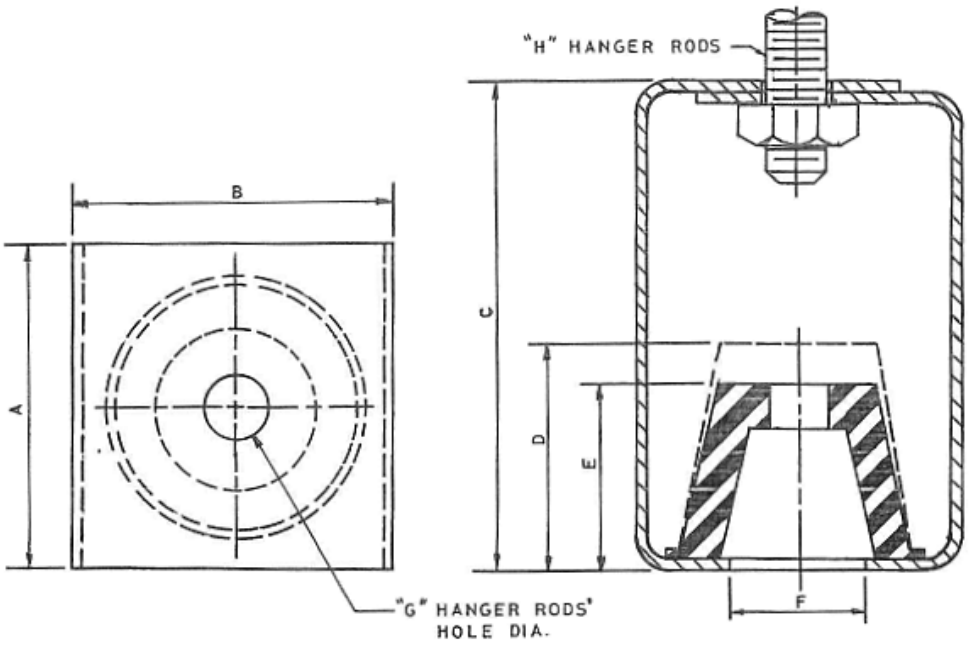
DRAWING NO. **VPI-102A**



NOTE: "H" HANGER RODS NOT BY MAC AMS INC.

Hangers		Max Load (Lbs.)	ARH Defl.	ARHD Defl.	A	B	C	D*	E**	F	G	H	Wt. (Lbs.)
ARH-1	BLACK	45	⅛"	¼"	2"	2 ¼"	3"	1 ⅜"	1 ⅛"	¾"	13/32"	⅜"	1.5
	RED	75											
	GREEN	125											
ARH-2	BLACK	150	¼"	½"	2 ¼"	3"	4 ½"	1 ⅞"	1 ⅜"	⅞"	11/16"	⅝"	2
	RED	240											
	GREEN	380											
	GRAY	550											
ARH-3	RED	525	¼"	½"	3 ¼"	3 ¾"	5 ¾"	3 ⅛"	2"	1 ⅛"	⅞"	¾"	3
	GREEN	750											
	GRAY	1250											
ARH-4	GREEN	3000	¼"	½"	4"	4 ¾"	8"	3 ⅛"	2"	1 ½"	1 1/16"	1"	6
	GRAY	4000											

*DIMENSION 'D' IS FOR DOUBLE DEFLECTION TYPE ARHD HANGERS

**DIMENSION 'E' IS FOR SINGLE DEFLECTION TYPE ARH HANGERS

RUBBER - IN - SHEAR

HANGERS

MODEL ARH AND ARHD

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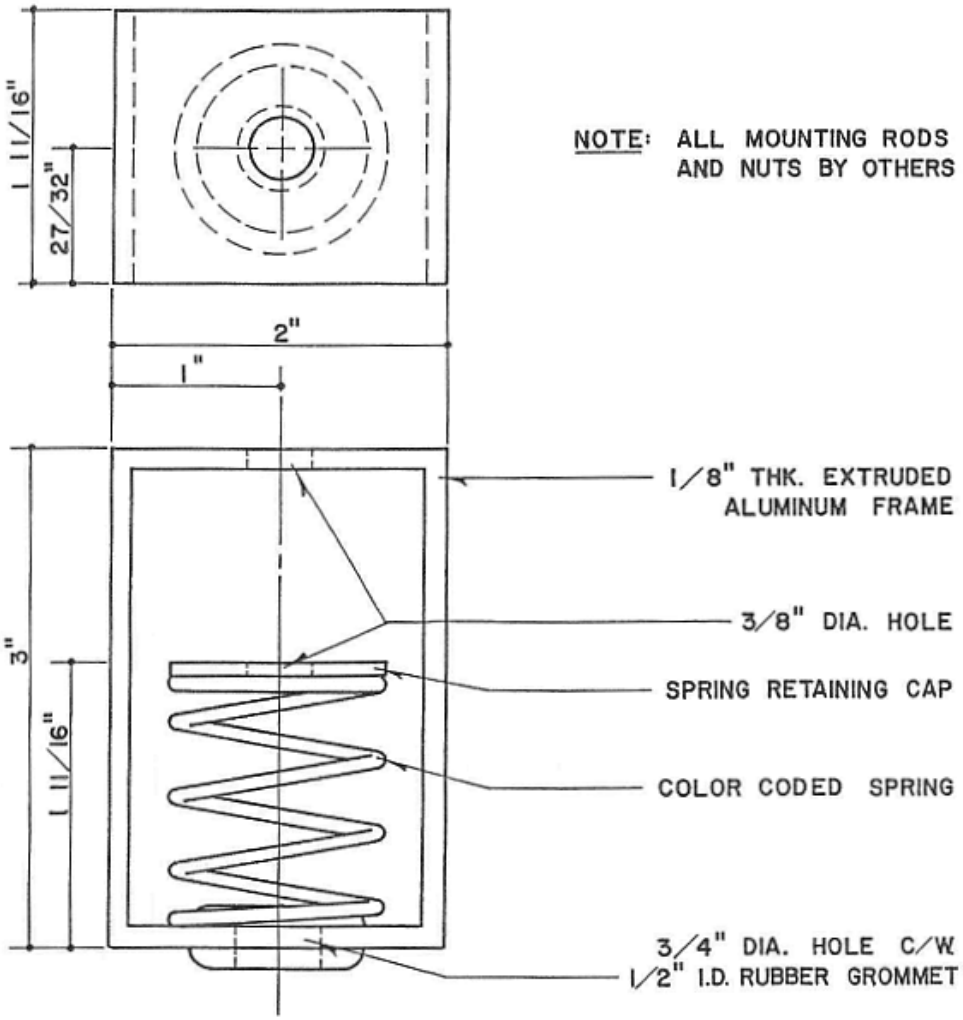
DRAWING NO. **ARH-100**



Hangers	Load Range (Lbs.)	Static Deflection Range
WST-100 WHITE	12 – 17	0.4" – 0.56"
WST-101 BLUE	18 – 25	0.4" – 0.56"
WST-102 ALUMINUM	26 – 37	0.4" – 0.56"
WST-103 YELLOW	38 – 53	0.4" – 0.56"
WST-104 BROWN	57 – 84	0.4" – 0.56"
WST-105 ORANGE	78 – 109	0.4" – 0.56"

MODEL WST

SPRING HANGER

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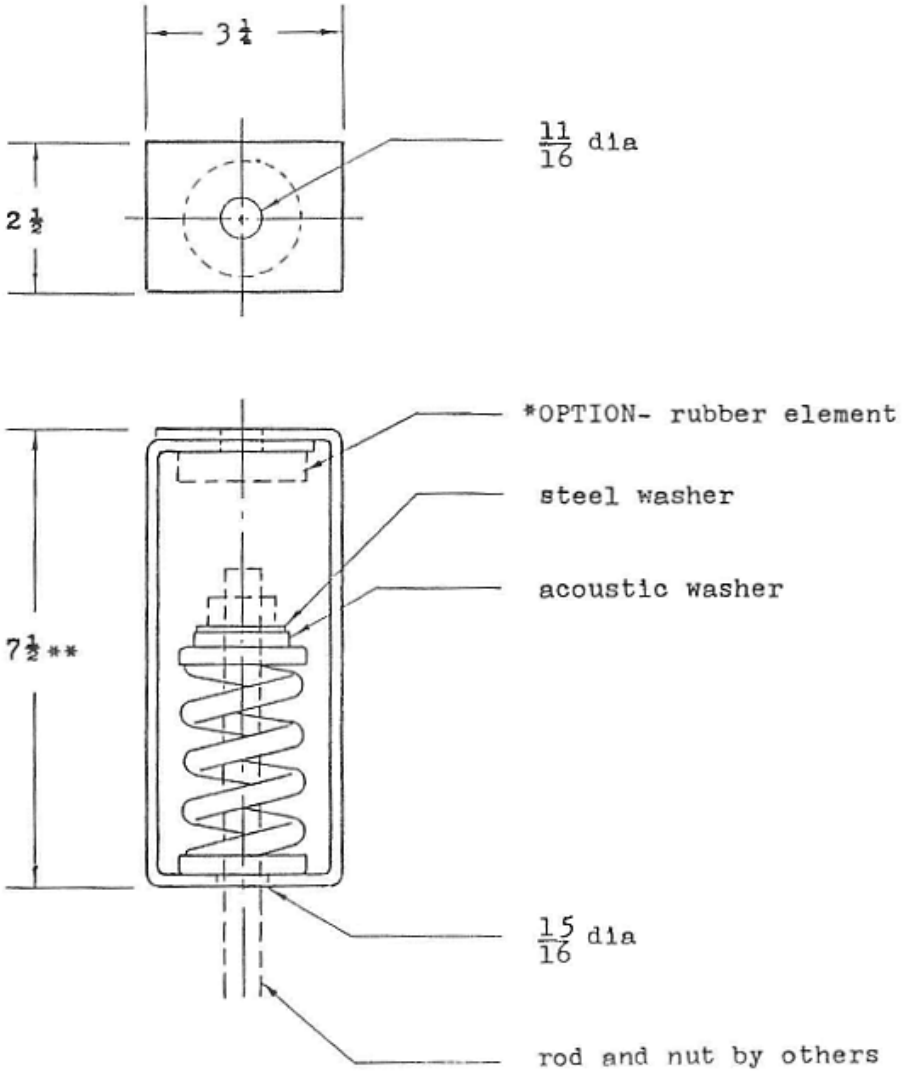
DRAWING NO. **ST-111**



***OPTION - Change model to STR**

Model Number	Spring Colour	Max Load Lbs.	Defl. (Inches)
ST-1-200	WHITE	40	1.1
ST-1-201	BLUE	60	1.4
ST-1-202	ALUM.	100	1.2
ST-1-203	YELLOW	150	1.2
ST-1-204	BROWN	250	1.3
ST-1-205	ORANGE	340	1.1

Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
ST-1-206	GREEN	500	1.0
ST-1-207	RED	600	0.9
ST-1-208	BLACK	800	0.8
ST-1-209	GOLD	1000	0.5
ST-1-210	TITAN	1500	0.5

MODEL ST-1

SPRING HANGER

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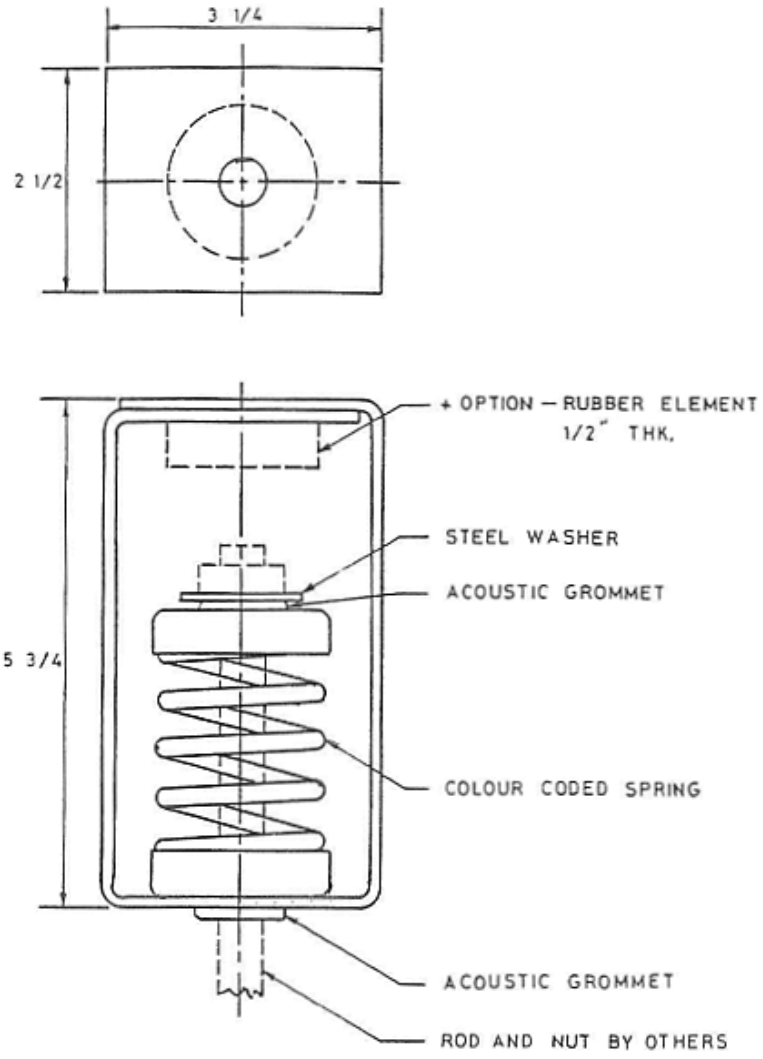
DRAWING NO. **ST-100**



***OPTION - Change model to STR**

Model Number	Spring Colour	Max Load (Lbs.)	Deflection (Inches)
SST-200	WHITE	40	1.1
SST-201	BLUE	60	1.4
SST-202	ALUMINUM	100	1.2
SST-203	YELLOW	150	1.2

MODEL SST-200

SPRING HANGER

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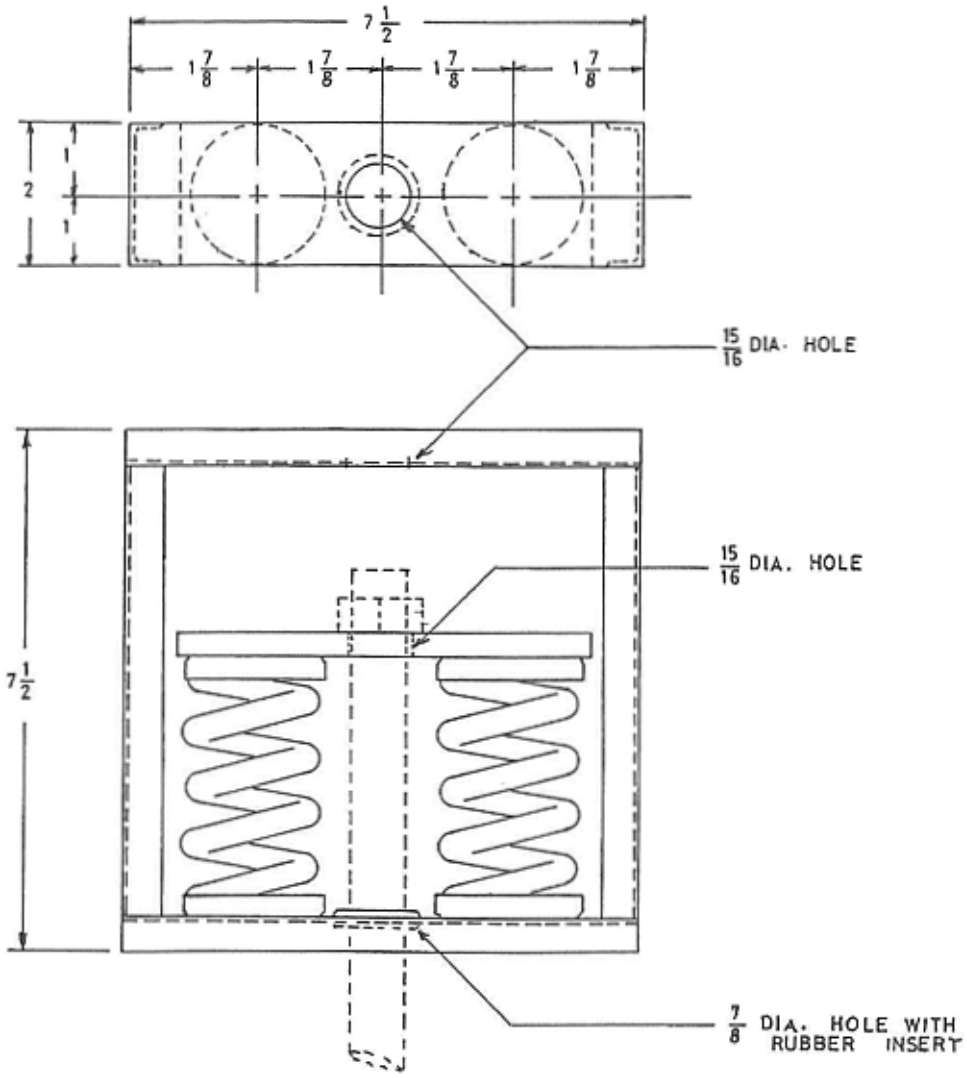
DRAWING NO. **ST-101**



Model Number	Spring Colour	Max Load (Lbs.)	Deflection (Inches)
ST-2-206	GREEN	1000	1.1
ST-2-207	RED	1200	0.9
ST-2-208	BLACK	1600	0.8
ST-2-209	YELLOW	2000	0.5
ST-2-210	TITAN	3000	0.5

MODEL ST-2-200

SINGLE DEFLECTING

SPRING HANGER

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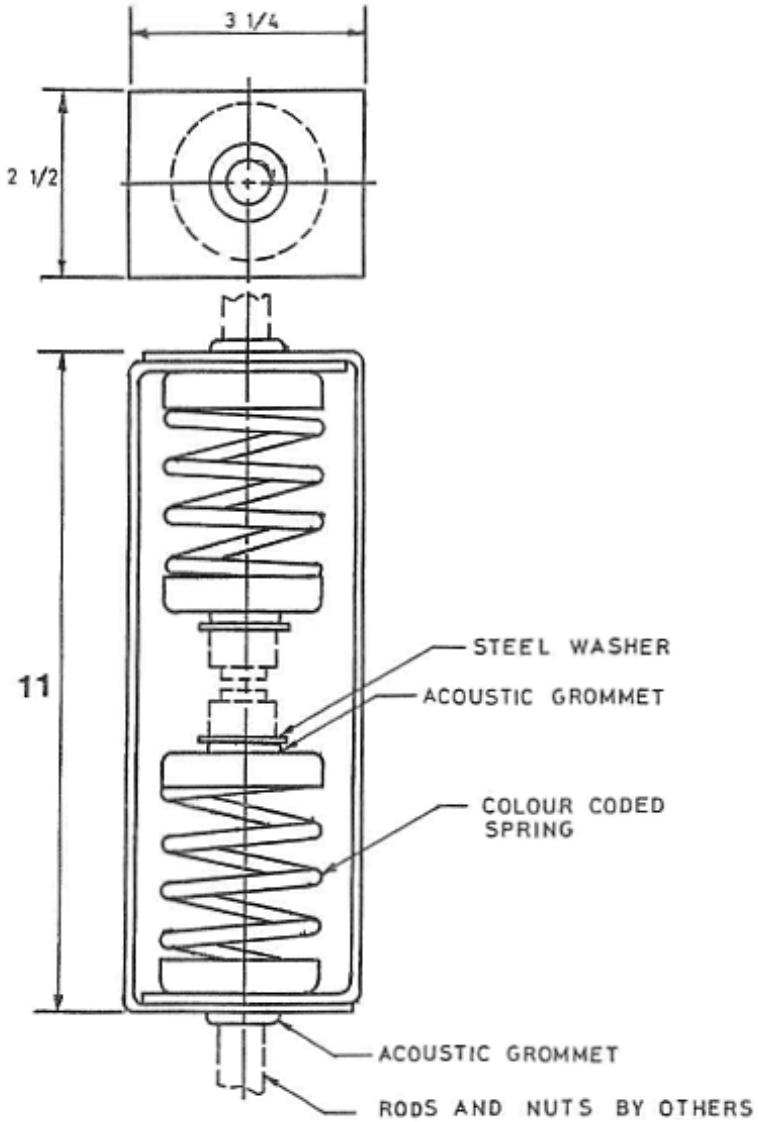
DRAWING NO. **ST-102**



Model Number	Spring Colour	Max Load (Lbs.)	Deflection (Inches)
SSTD-200	WHITE	40	2.2
SSTD-201	BLUE	60	2.8
SSTD-202	ALUM.	100	2.4
SSTD-203	YELLOW	150	2.4

MODEL SSTD-200

DOUBLE DEFLECTING

SPRING HANGER

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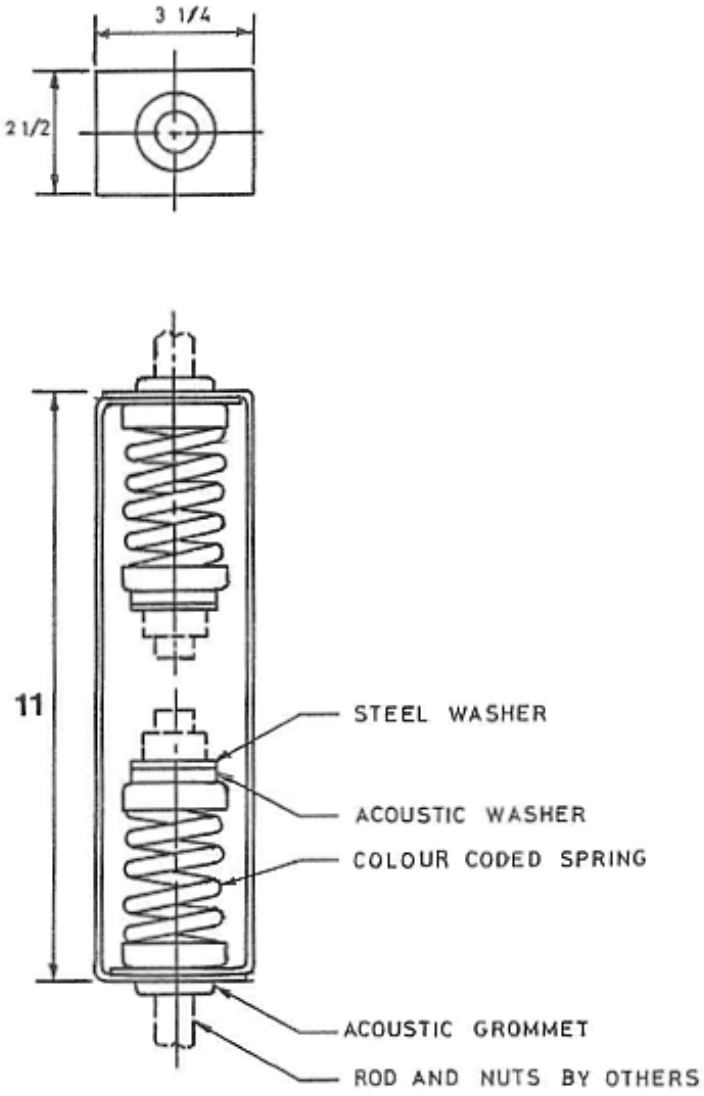
DRAWING NO. **ST-103**



Model Number	Spring Colour	Max Load (Lbs.)	Deflection (Inches)
STD-204	BROWN	250	2.6
STD-205	ORANGE	340	2.2
STD-206	GREEN	500	2.0
STD-207	RED	600	1.8
STD-208	BLACK	800	1.6

MODEL STD-200

DOUBLE DEFLECTING

SPRING HANGER

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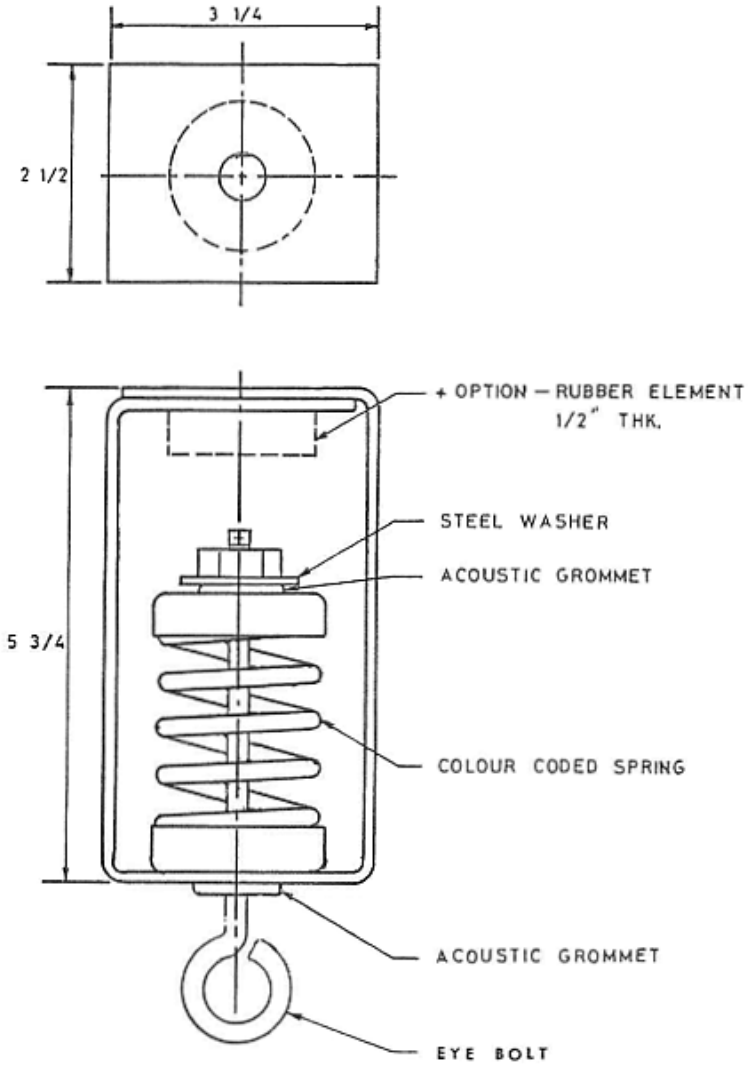
DRAWING NO. **ST-104**



***OPTION - Change model to STR**

Model Number	Spring Colour	Max Load (Lbs.)	Deflection (Inches)
STC-200	WHITE	40	1.1
STC-201	BLUE	60	1.4
STC-202	ALUM.	100	1.2
STC-203	YELLOW	150	1.2

MODEL STC

SPRING HANGER

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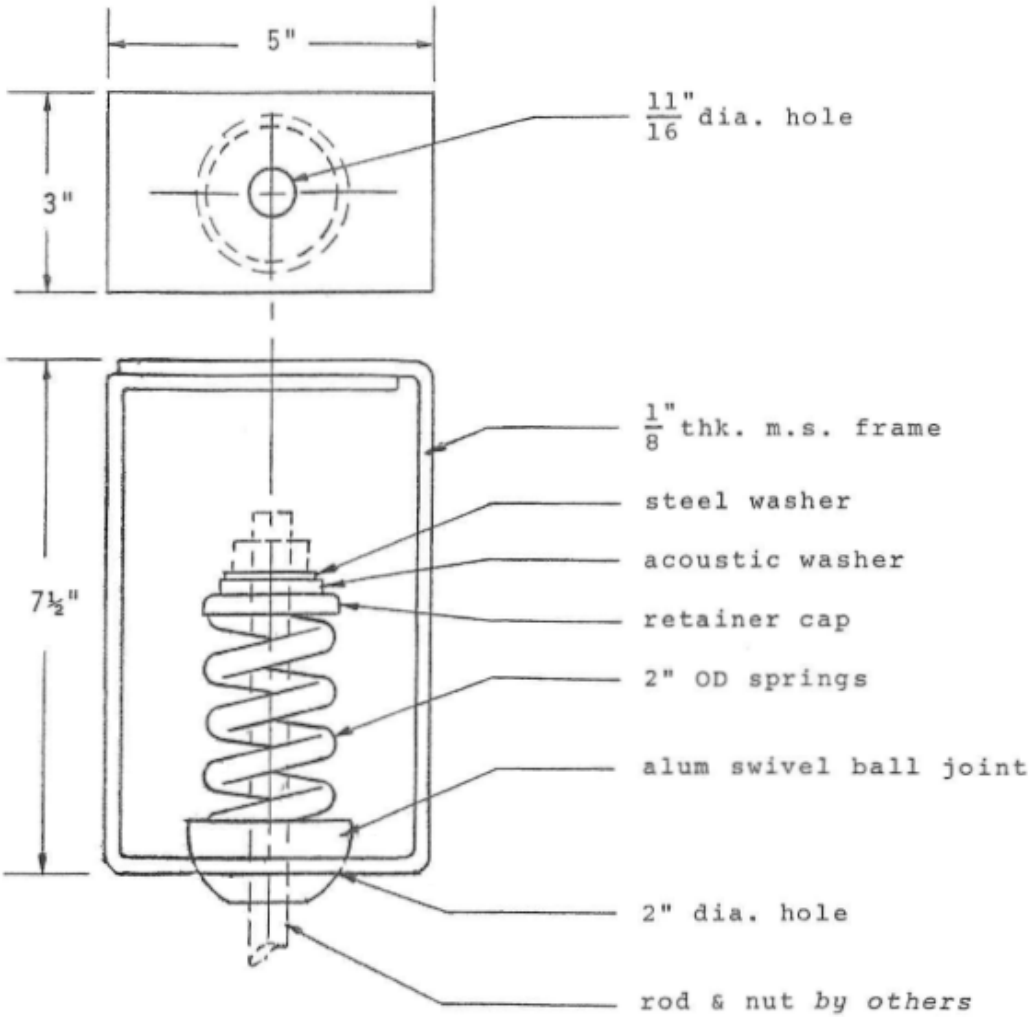
DRAWING NO. **ST-106**



Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
STA-200	WHITE	40	1.1
STA-201	BLUE	60	1.4
STA-202	ALUM.	100	1.2
STA-203	YELLOW	150	1.2
STA-204	BROWN	250	1.3
STA-205	ORANGE	340	1.1

Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
STA-206	GREEN	500	1.0
STA-207	RED	600	0.9
STA-208	BLACK	800	0.8
STA-209	GOLD	1000	0.5
STA-210	TITAN	1500	0.5

MODEL STA

SPRING HANGER

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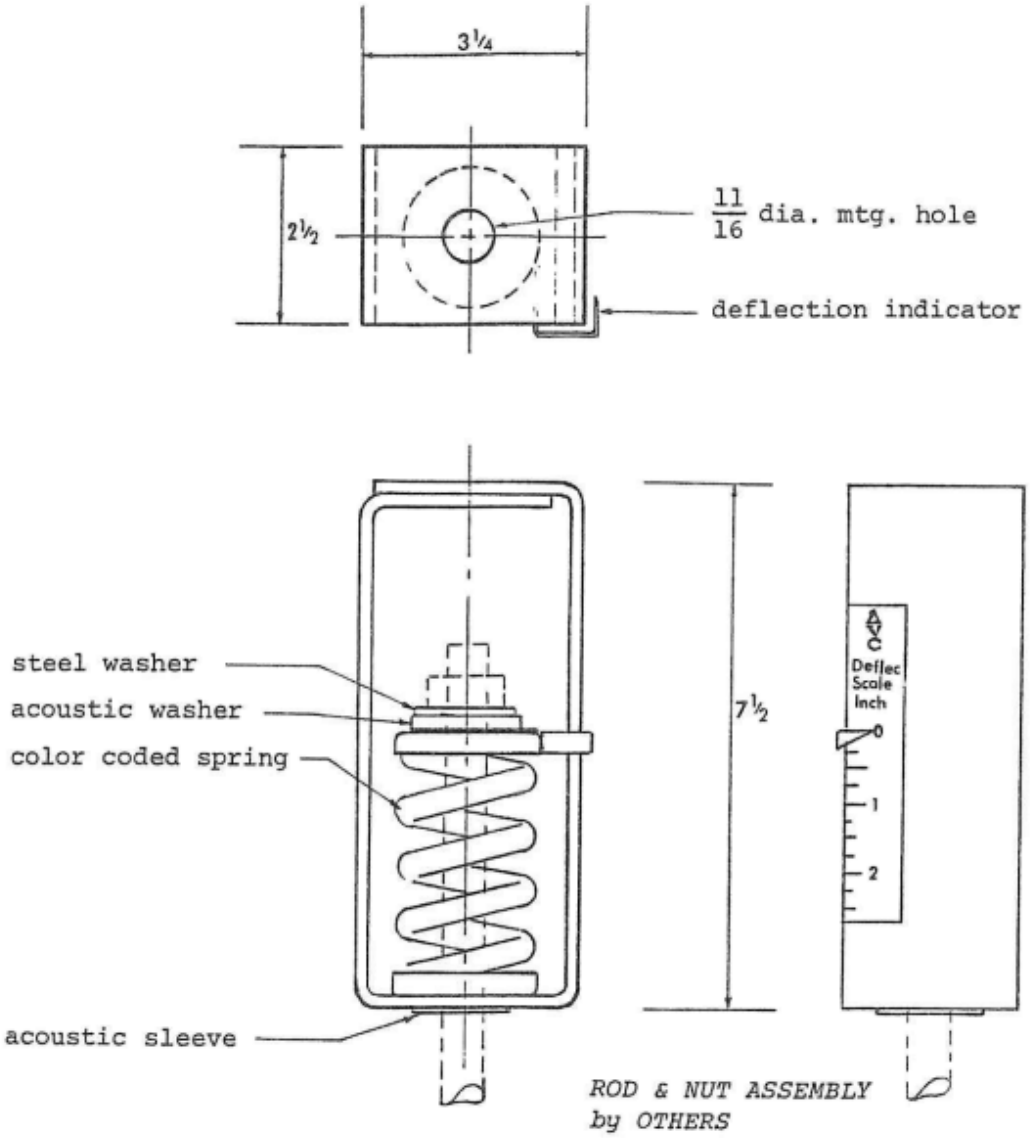
DRAWING NO. **ST-107A**



Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
STG-1-200	WHITE	40	1.1
STG-1-201	BLUE	60	1.4
STG-1-202	ALUM.	100	1.2
STG-1-203	YELLOW	150	1.2
STG-1-204	BROWN	250	1.3
STG-1-205	ORANGE	340	1.1

Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
STG-1-206	GREEN	500	1.0
STG-1-207	RED	600	0.9
STG-1-208	BLACK	800	0.8
STG-1-209	GOLD	1000	0.7
STG-1-210	TITAN	1500	0.7

MODEL STG-1

SPRING HANGER

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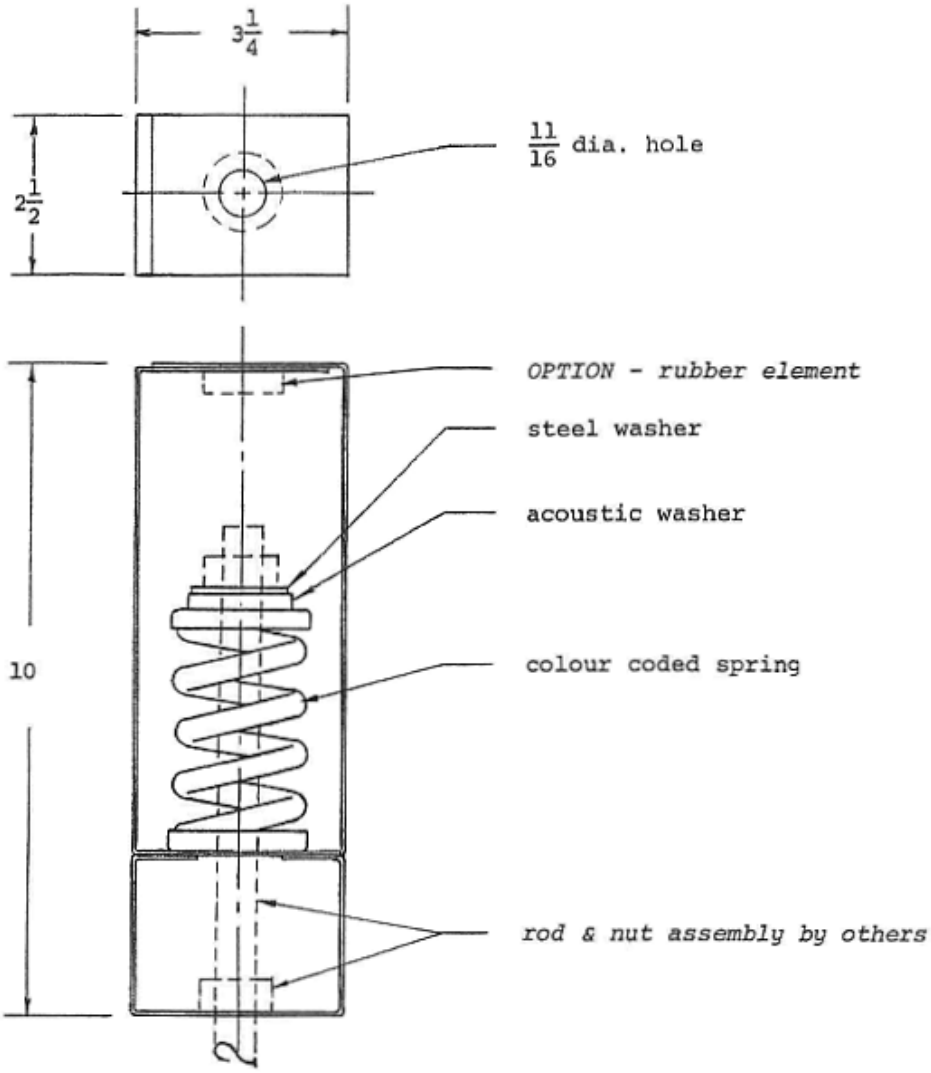
DRAWING NO. **ST-108**



***OPTION - Change model to STR**

Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
STL-200	WHITE	40	1.1
STL-201	BLUE	60	1.4
STL-202	ALUM.	100	1.2
STL-203	YELLOW	150	1.2
STL-204	BROWN	250	1.3
STL-205	ORANGE	340	1.1

Model Number	Spring Colour	Max Load (Lbs.)	Defl. (Inches)
STL-206	GREEN	500	1.0
STL-207	RED	600	0.9
STL-208	BLACK	800	0.8
STL-209	GOLD	1000	0.5
STL-210	TITAN	1500	0.5

MODEL STL

SPRING HANGER

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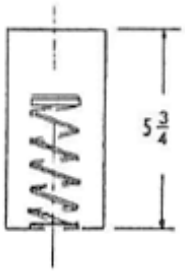
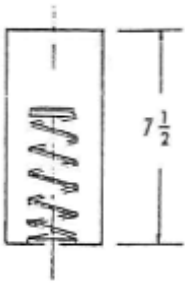
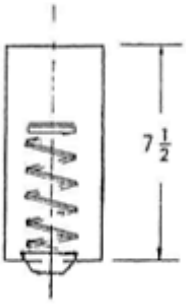
DRAWING NO. **ST-109**



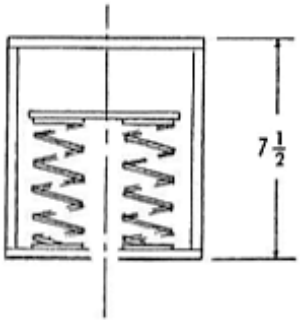
MODEL SST



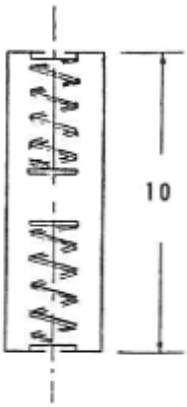
MODEL ST



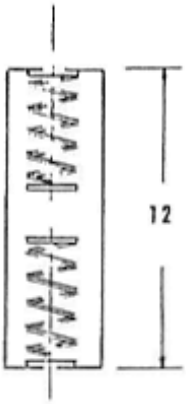
MODEL STA



MODEL ST2



MODEL SSTD



MODEL STD

Pipe Dia. (Inches)	Wt. of Pipe with Water (Lbs. / Ft.)	F.G. Insul. Covering (Lbs. / Ft.)	Hanger Center (Feet)	Total Weight (Lbs.)	Spring Selection
2.5	8	1.4	10	94	202 ALUM.
3	11	1.6	10	126	203 YELLOW
4	16.3	2.1	10	184	204 BROWN
5	23.3	2.5	10	253	204 BROWN
6	31.5	2.9	10	344	205 ORANGE
8	50.3	5.3	10	566	207 RED
10	74.6	9.5	10	841	2-206 GREEN

RESILIENT PIPING

SPRING HANGERS

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DRAWING NO. **PH-110**

FITTING WEIGHT (LBS.)	CHECK VALVE						27	40	60	85	100	130	180	285	500	700		
	GLOBE VALVE			13			35	50	60	90	125	175	250	475	600			
	GATE VALVE						40	60	70	90	100	150	190	305	470	660	860	
	FLANGED TEE			11			28	42	52	70	86	119	149	230	340	500	690	
	FLANGED 90° EL			8			23	30	40	54	72	91	126	202	310	480	620	
	BLIND FLANGE							9	10	15	19	23	29	48				
	SLIP ON FLANGE			2			5	9	9	13	15	18	22	33	52	72	100	
	SCREWED FLANGE			2			5	9	9	13	15	18	22	33	52	72	100	
	WELDING TEE			1.3			3.8	5.2	7.4	9.9	12.6	19.8	29.9	54	91.2	167	209	
	WELDING ELBOW			1.0			3.3	2.9	4.6	6.4	8.7	14.7	23	46	81.5	157	202	
PIPING WEIGHT (LBS.)	TOTAL WT. / FT.	1.68	2.06	2.75	3.72	4.50	6.41	9.01	12.03	15.22	18.85	26.20	34.76	55.88	81.10	117.50	138.90	340
	COVERING WT. / FT.	0.5	0.6	0.7	0.8	0.9	1.0	1.14	1.25	1.83	2.55	2.92	3.28	5.64	9.50	15.50	16.80	32
	WATER WT. / FT.	0.20	0.23	0.37	0.65	0.88	1.45	2.08	3.20	4.28	5.51	8.66	12.51	21.69	34.10	48.50	58.70	198
	PIPE WT. / FT.	0.98	1.18	1.68	2.27	2.72	3.65	5.79	7.58	9.11	10.79	14.62	18.97	28.55	40.50	53.50	63.40	110
	SIZE	½	¾	1	1 ¼	1 ½	2	2 ½	3	3 ½	4	5	6	8	10	12	14	24

PIPE HANGER

SELECTION DATA

Mac AMS Inc.
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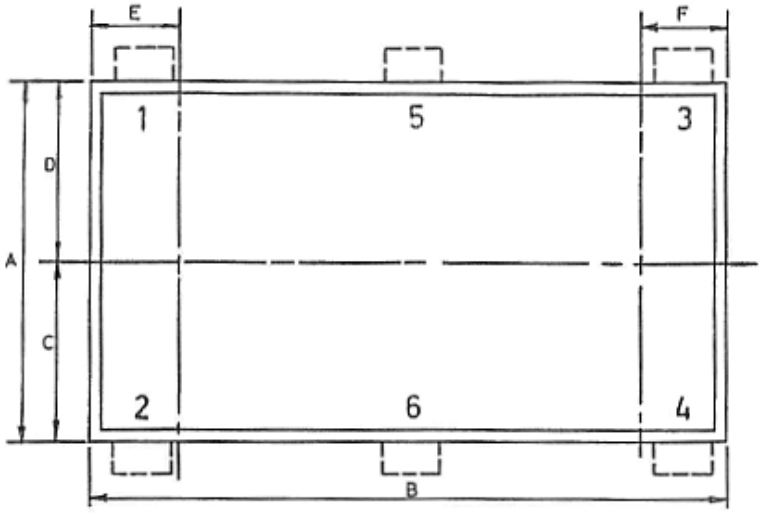
DRAWING NO. **PH-111**

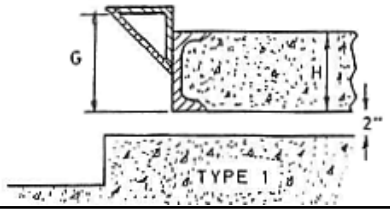


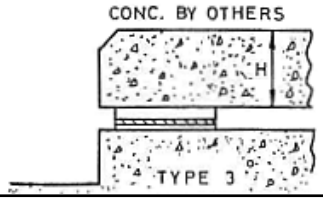
☐ CIB-BY

☐ REINF. BAR.-BY

☐

MOUNTINGS





BASE DATA							REMARKS
MOUNTING TYPE							
A							
B							
C							
D							
E							
F							
G							
H							

PROJECT:	DRAWING NO.:
ENGINEER:	DATE:
CONTRACTOR:	REVISED:

CIB BASE

FOR

PUMPS & FANS

Mac AMS Inc.
VIBRATION ISOLATION EQUIPMENT

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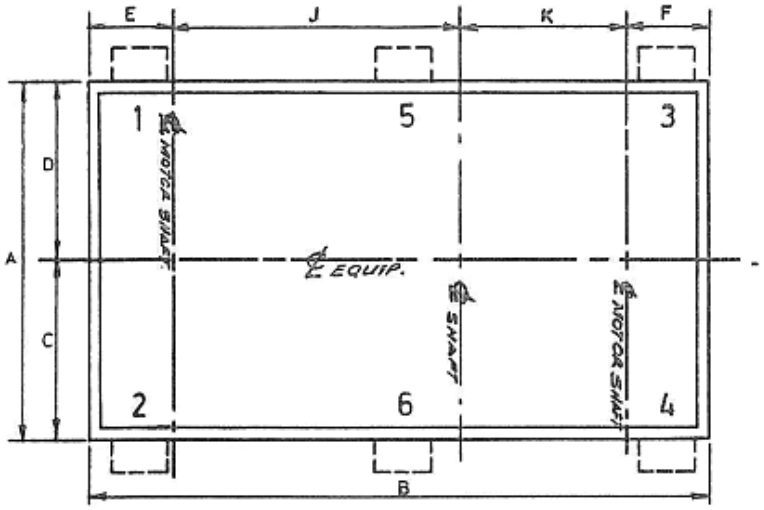
DRAWING NO. **CIB-100**

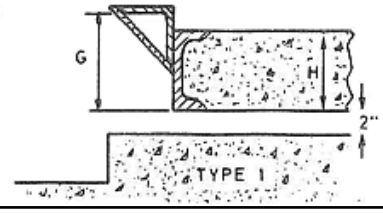


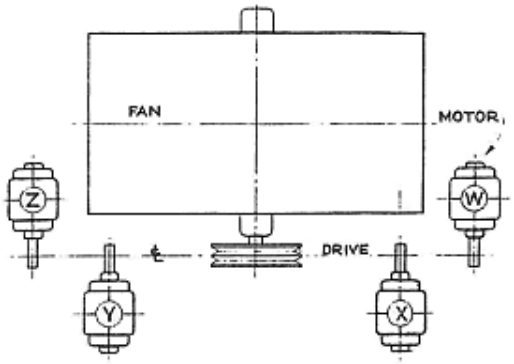
☐ CIB-BY

☐ REINF. BAR.-BY

☐

MOUNTING





Location of motor is determined by facing the drive side of fan and designating the motor position by letters W, X, Y, or Z as the case may be.

BASE DATA							REMARKS
MOUNTING TYPE							
A							
B							
C							
D							
E							
F							
G							
H							
J							
K							
MOTOR POS.							

PROJECT:	DRAWING NO.:
ENGINEER:	DATE:
CONTRACTOR:	REVISED:

CIB BASE FOR FANS

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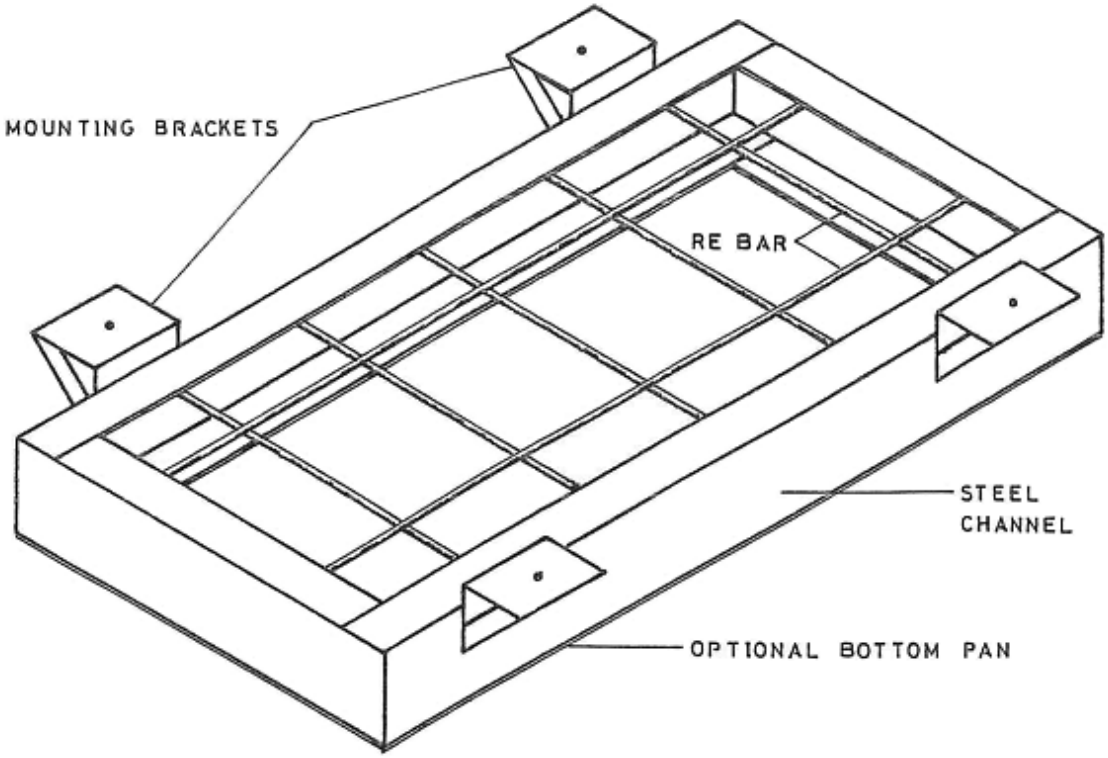
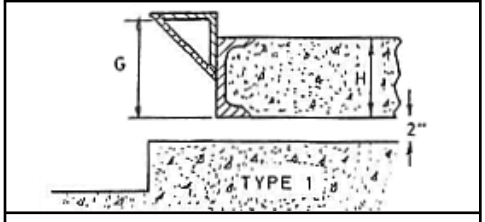
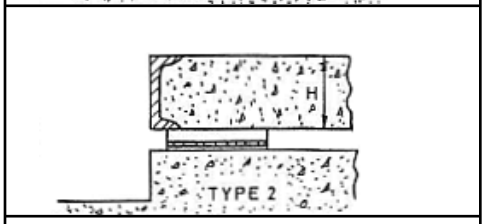
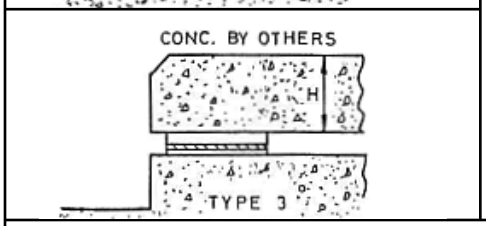
DRAWING NO. **CIB-101**



PUMP MOUNTINGS



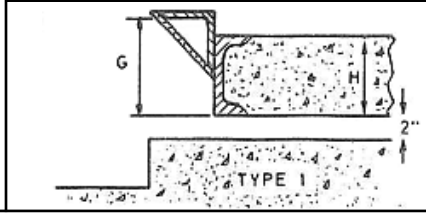


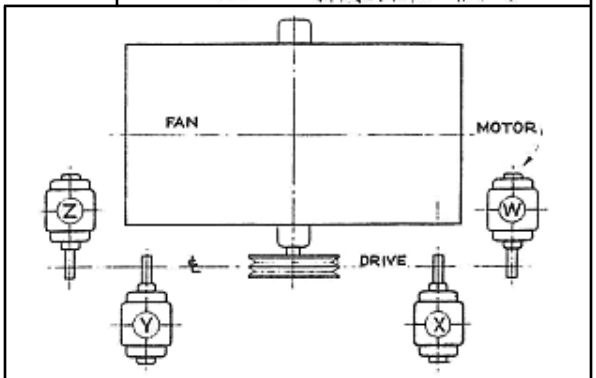


NOTE: OPTIONS
SPECIAL PAINT
REINFORCEMENT BARS
BOTTOM PAN
MOUNTING BRACKETS

PRIMER PAINT
STANDARD
CONCRETE BY
OTHERS

FAN MOUNTING





Location of motor is determined by facing the drive side of fan and designating the motor position by letters W, X, Y, or Z as the case may be.

CIB BASE

FOR

PUMPS & FANS

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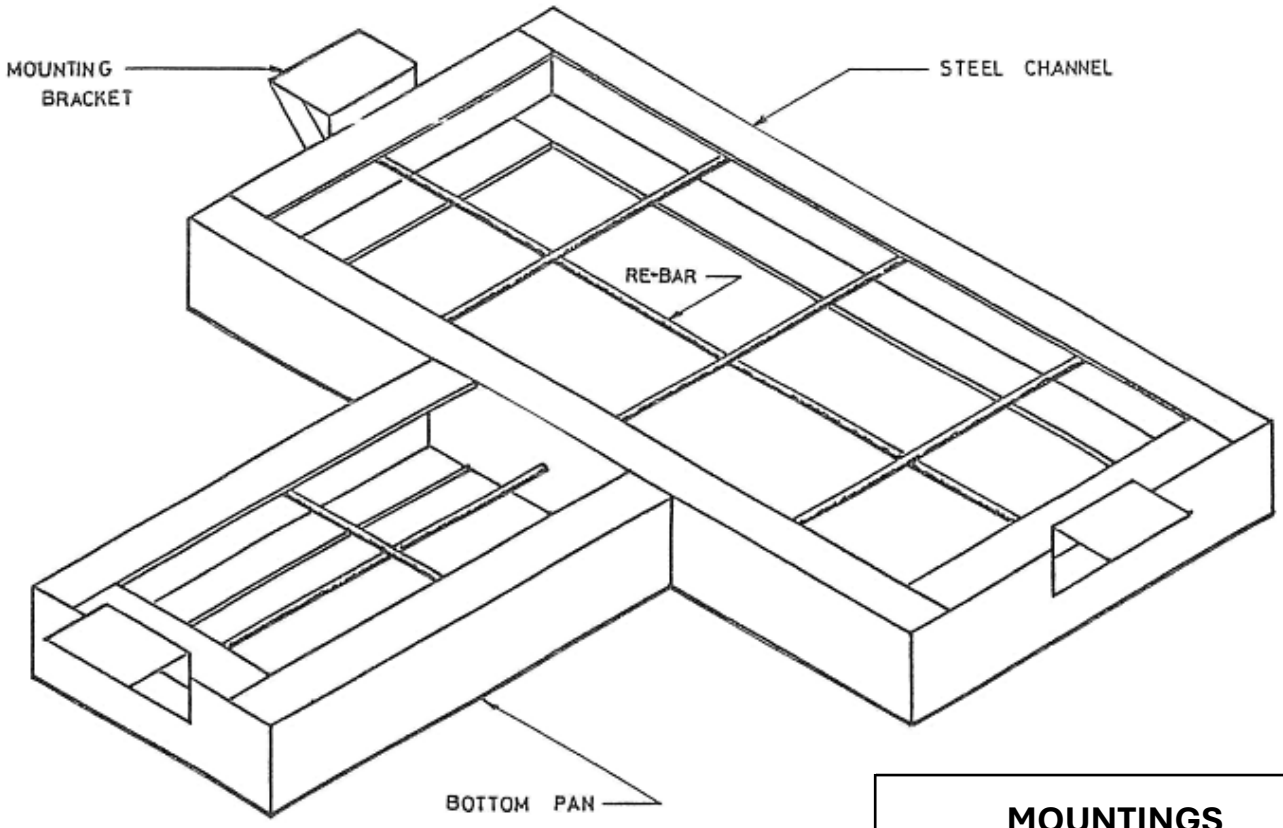
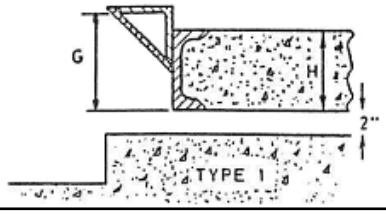
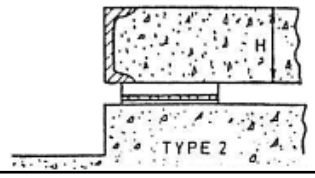
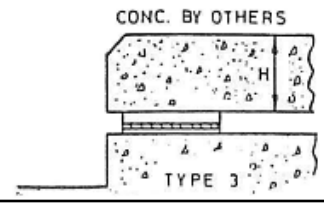
DRAWING NO. **CIB-103**



MOUNTINGS







NOTE:

- OPTIONAL FEATURES INCLUDES
  - MOUNTING BRACKETS
  - BOTTOM PAN
  - REINFORCEMENT BARS
  - SPECIAL PRIMER PAINT
- FRAME CUSTOM MADE TO SUIT EQUIPMENT.

CIB BASE FOR PUMPS

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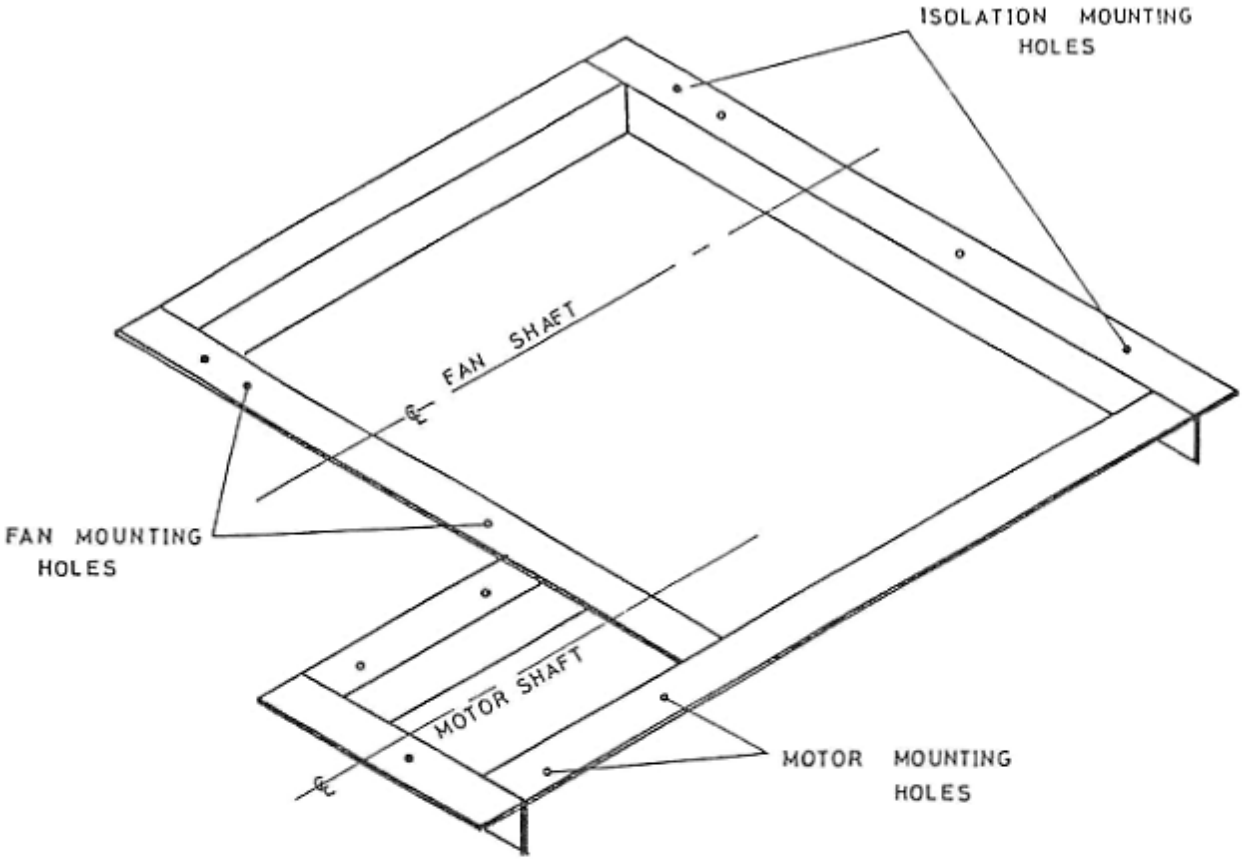
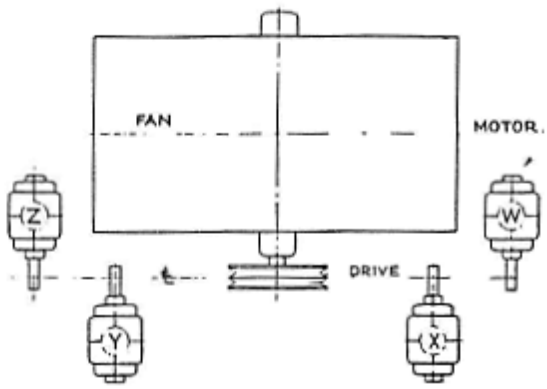
DRAWING NO. **CIB-105**



—STEEL ANGLE CONSTRUCTION
—ONE COAT PRIMER PAINT STANDARD
—SPECIAL PAINT OPTIONAL
—MOTOR SLIDE BASE STANDARD



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INTEGRAL FAN & MOTOR

STEEL BASE

MOTOR POSITION X

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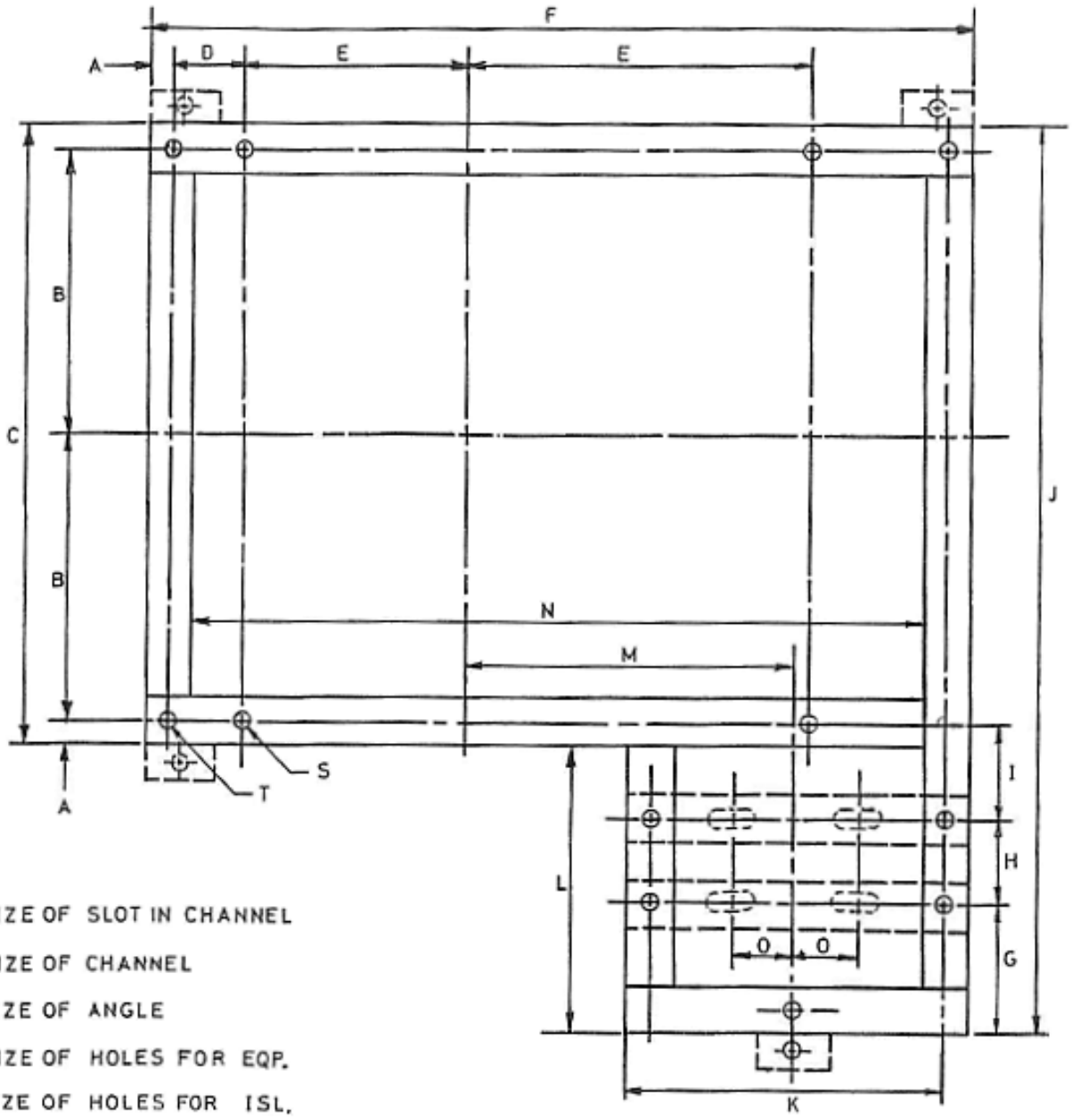
DRAWING NO. **IB-100A**



NOTE:

P:SIZE OF SLOT IN CHANNEL

Q:SIZE OF CHANNEL

R:SIZE OF ANGLE

S:SIZE OF HOLES FOR EQP.

T:SIZE OF HOLES FOR ISL.

INTEGRAL FAN & MOTOR

STEEL BASE

MOTOR POSITION X

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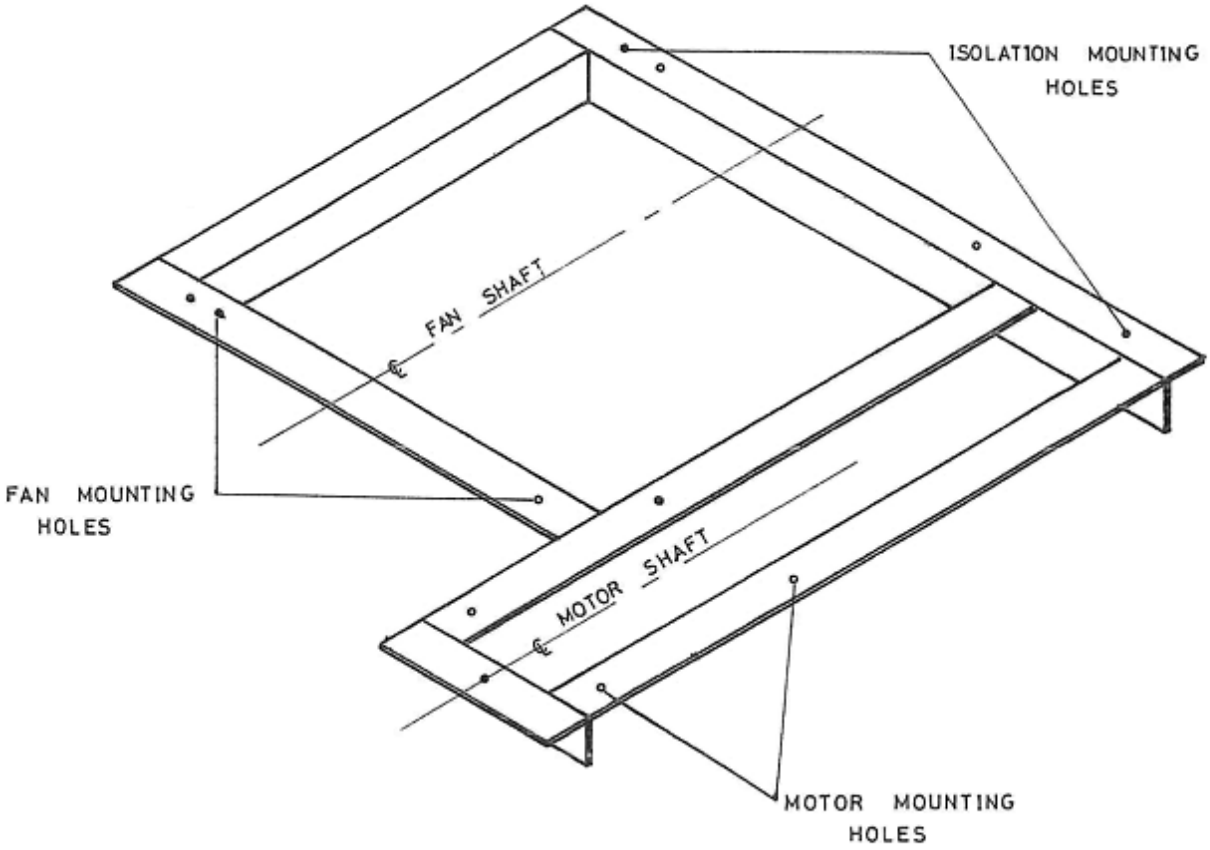
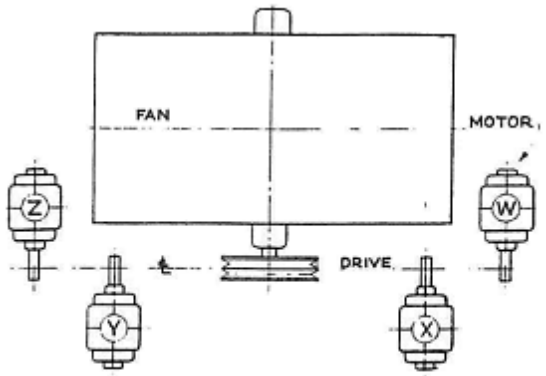
DRAWING NO. **IB-100B**



- STEEL ANGLE CONSTRUCTION
- ONE COAT PRIMER PAINT STANDARD
- SPECIAL PAINT OPTIONAL
- MOTOR SLIDE BASE STANDARD



Location of motor is determined by facing the drive side of fan and designating the motor position by letters W, X, Y, or Z as the case may be.

INTEGRAL FAN & MOTOR

STEEL BASE

MOTOR POSITION W

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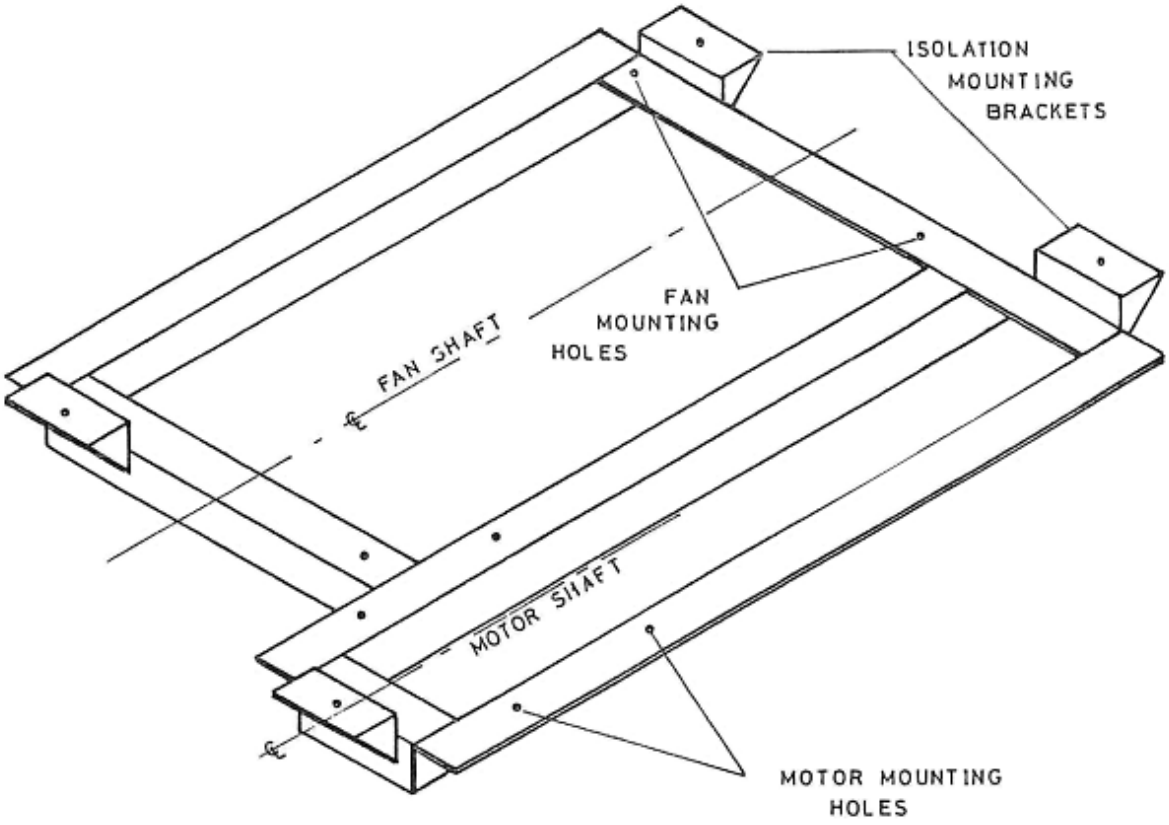
DRAWING NO. **IB-101**



- STEEL ANGLE CONSTRUCTION
- MOTOR SLIDE BASE STANDARD
- ONE COAT PRIMER PAINT STANDARD
- SPECIAL PAINT OPTIONAL

INTEGRAL FAN & MOTOR

STEEL BASE

MOTOR POSITION W

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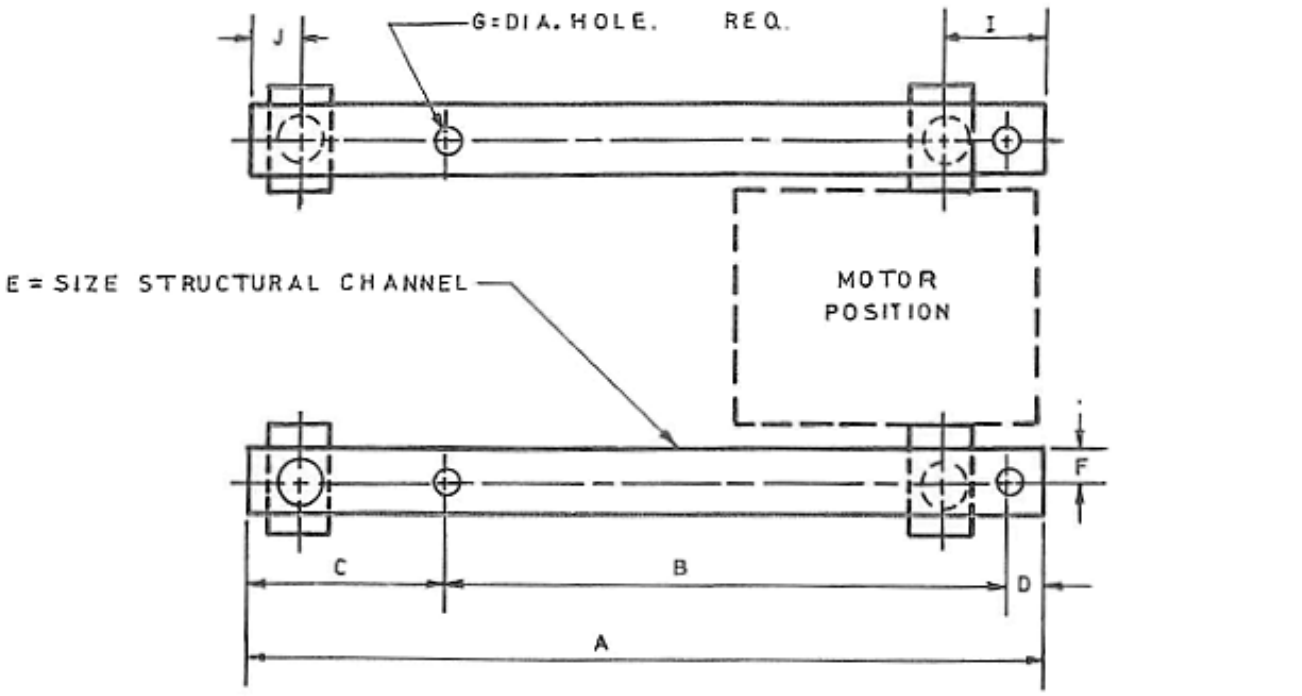
DRAWING NO. **IB-102**



PLAN

ELEVATION

	SYSTEM	A	B	C	D	E	F	G	H	I	J
PROJECT:											
ENGINEER:											
CUSTOMER:											
REFERENCE:											

RUBBER - IN - SHEAR

CHANNEL RAIL

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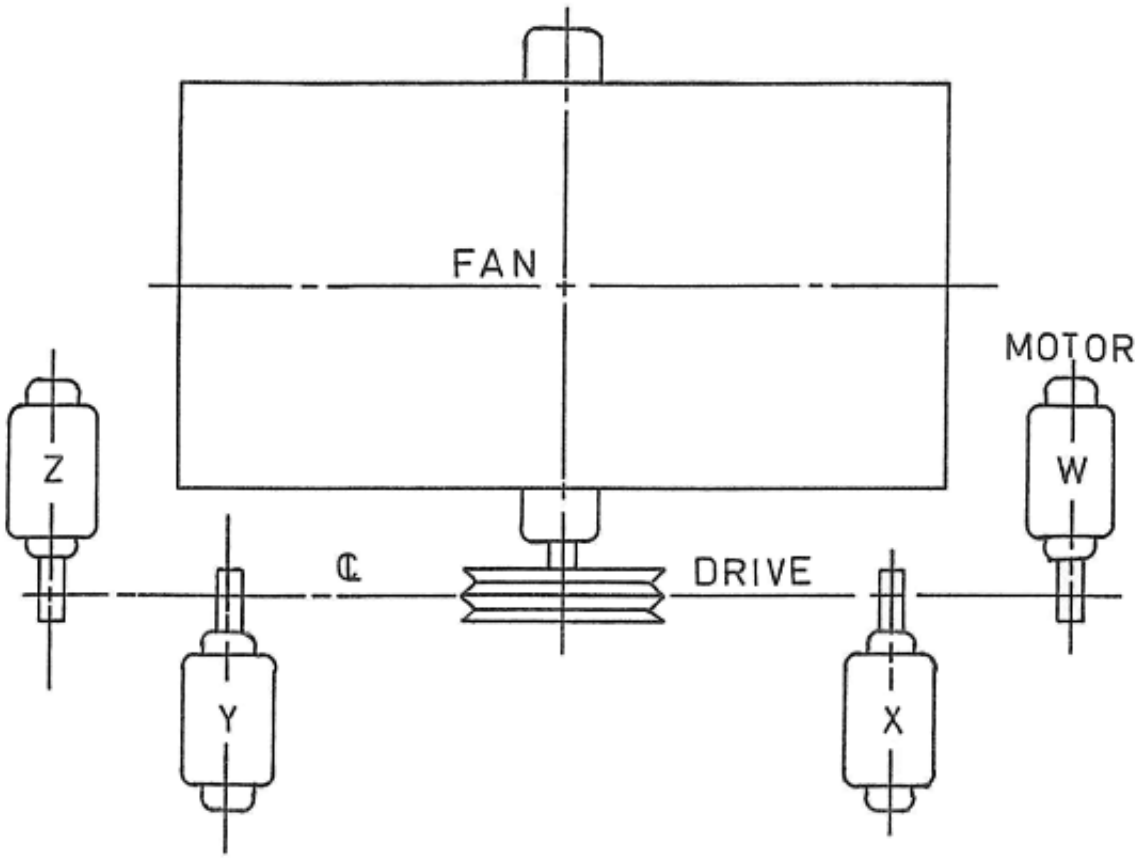
DRAWING NO. **C-100**



STANDARD MOTOR

POSITION

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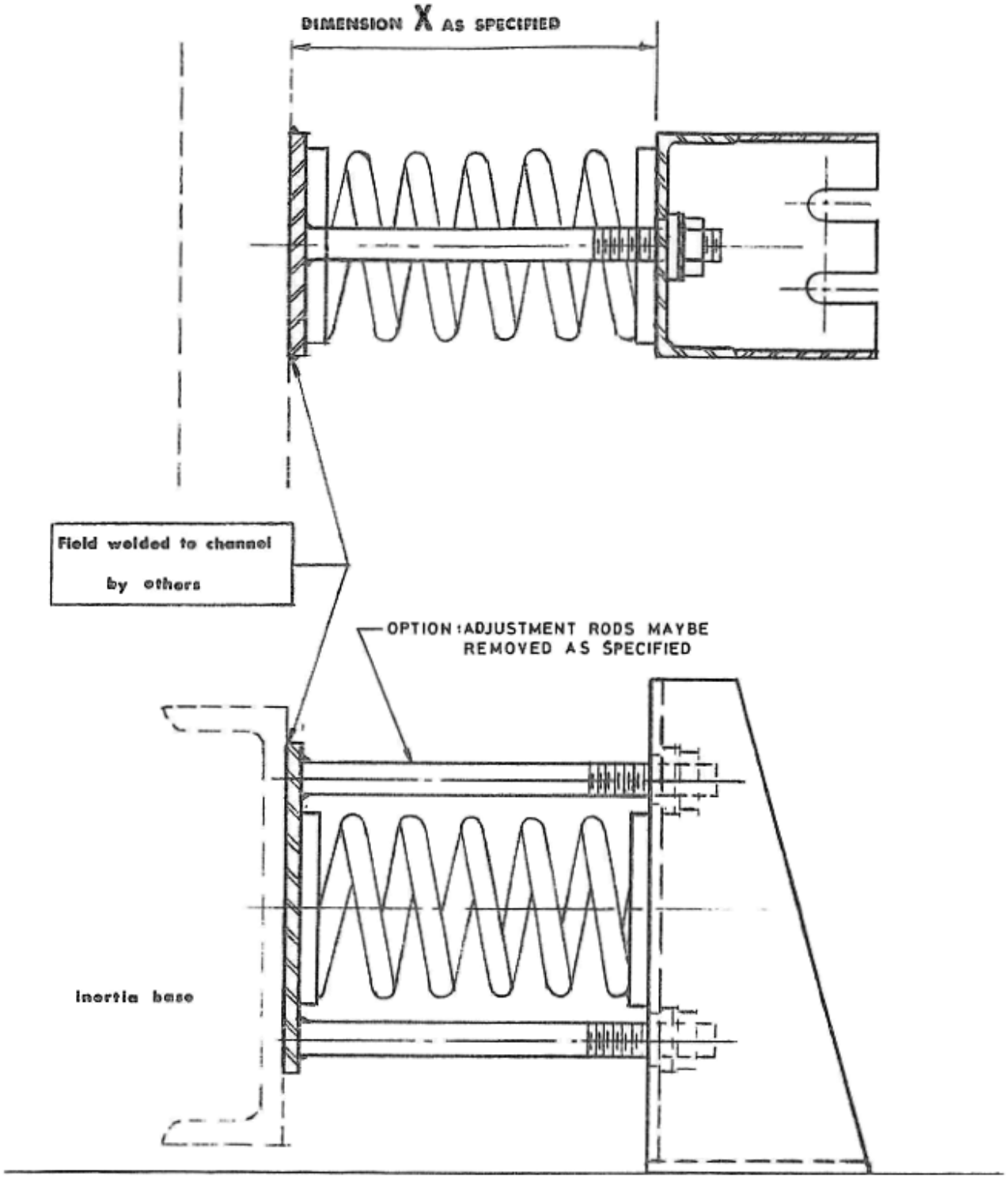
DRAWING NO. **SMP-100**



MODEL HLSE

HORIZONTAL LIMIT STOP

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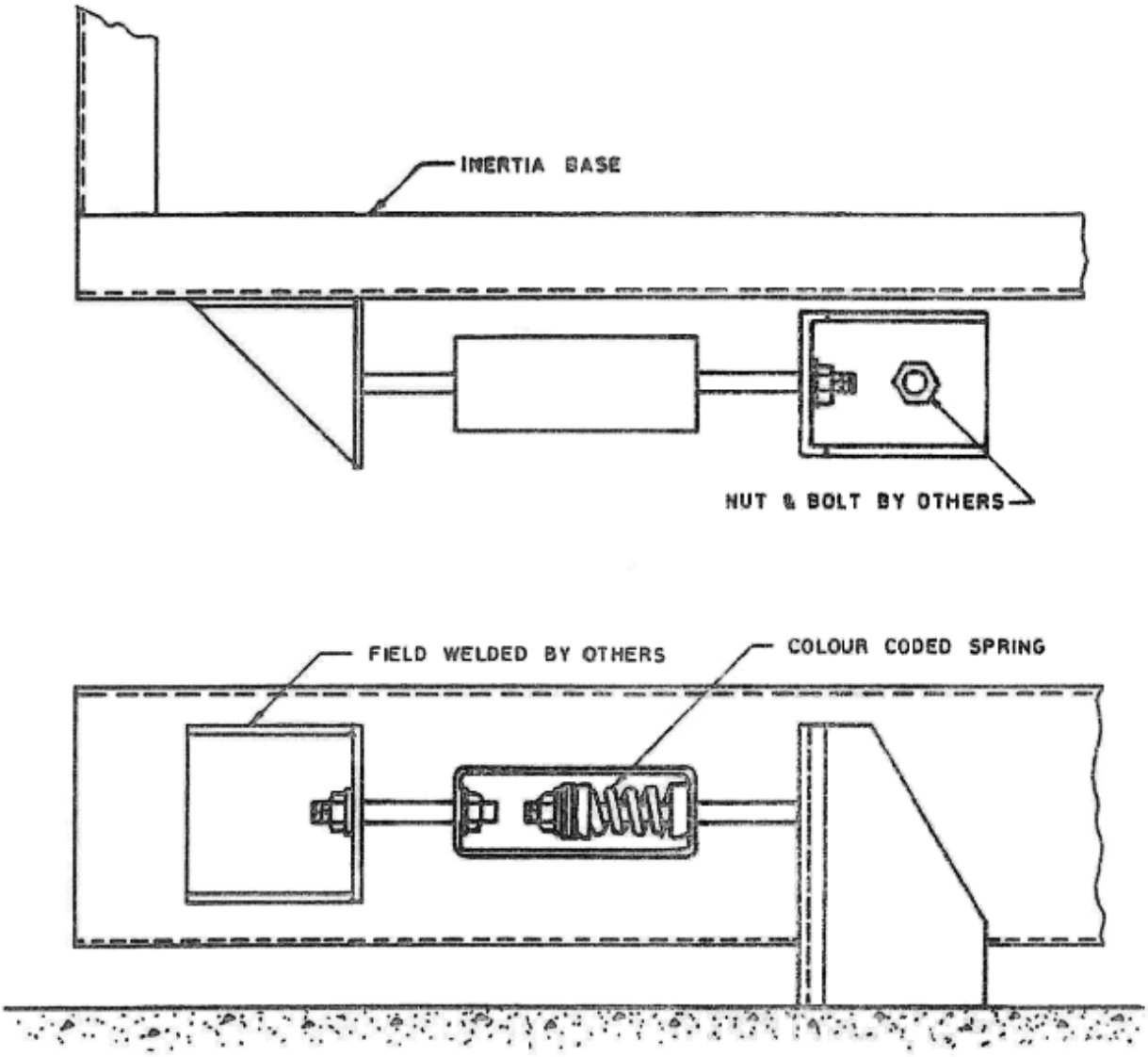
DRAWING NO. **HSL-100**



MODEL HLSS

HORIZONTAL LIMIT STOP

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Mac AMS Inc.
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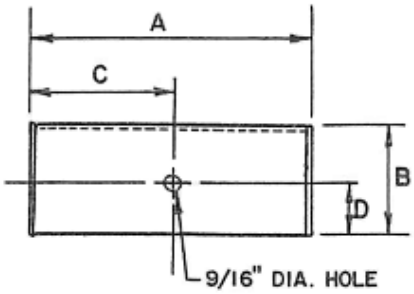
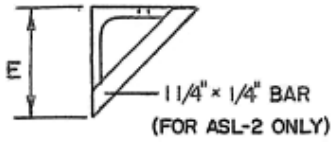
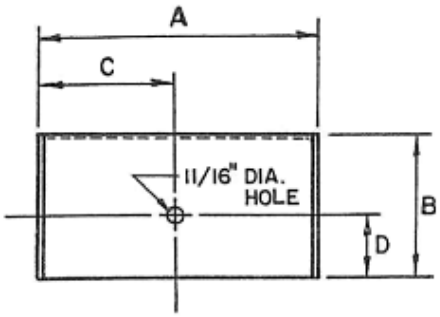
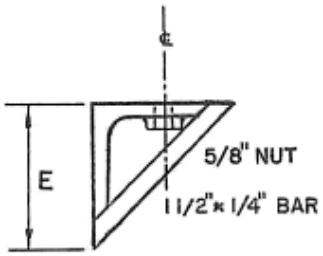
DRAWING NO. **HSL-101**



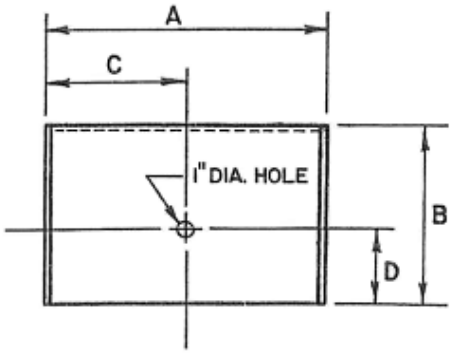


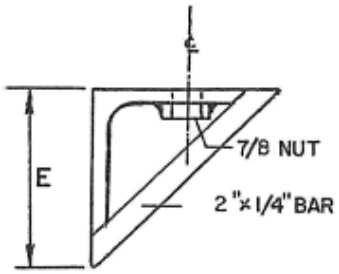
	ASL SERIES	
	ASL-1	**ASL-2**
A	6"	9"
B	3"	3"
C	3"	4 ½"
D	1 ¼"	1 ¼"
E	3"	3"
	TYPE A	TYPE B
	3" x 3" x ¼" ANGLE IRON BRACKETS	3" x 3" x ¼" ANGLE IRON BRACKETS
	3 lbs.	4.25 lbs.





	OSM-1-4 SERIES	
	4" & 6"	**8" & OVER**
A	7"	7"
B	6"	6"
C	3 ½"	3 ½"
D	2 ½"	2 ½"
E	6"	4"
	TYPE C	TYPE D
	6" x 6" x ⅜" ANGLE IRON BRACKETS	6" x 4" x ⅜" ANGLE IRON BRACKETS
	10.75 lbs.	8 lbs.





	OSM-6 SERIES	
	OSM-1	**OSM-2**
A	9"	18"
B	8"	8"
C	4 ½"	9"
D	3 ½"	3 ½"
E	8"	8"
	TYPE E	TYPE F
	8" x 8" x ½" ANGLE IRON BRACKETS	8" x 8" x ½" ANGLE IRON BRACKETS
	22.5 lbs.	42.25 lbs.

MOUNTING BRACKET

DETAIL

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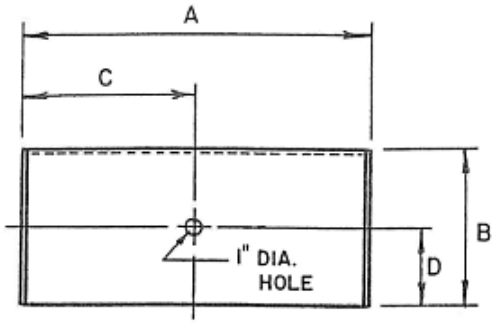
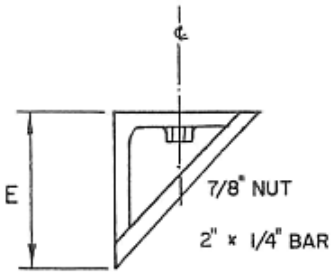
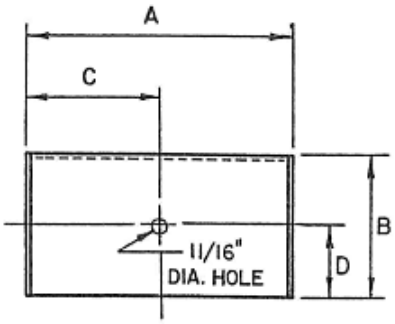
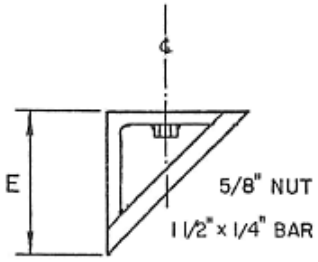
DRAWING NO. **MB-100A**



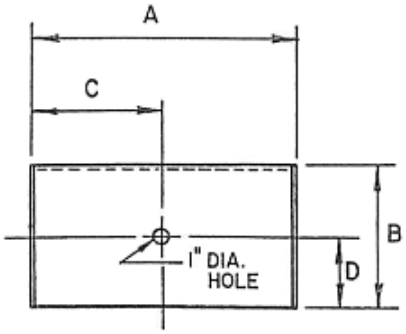


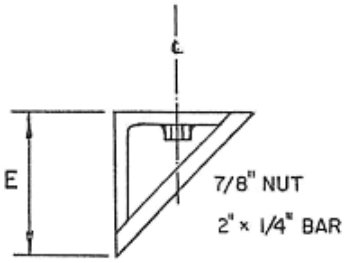
	OSM-2-400
A	14"
B	6"
C	7"
D	2 ½"
E	4"
	TYPE G
	6" x 4" x ⅜" ANGLE IRON BRACKETS
	16 lbs.





	CSM-1-400
A	11"
B	6"
C	5 ½"
D	2 ½"
E	6"
	TYPE H
	6" x 6" x ⅜" ANGLE IRON BRACKETS
	15 lbs.





	OSM-1-800
A	11"
B	10"
C	5 ½"
D	4 ½"
E	10 ½"
	TYPE I
	10" x 11" x ½" ANGLE IRON BRACKETS
	34.5 lbs.

MOUNTING BRACKET

DETAIL

Mac AMS Inc.
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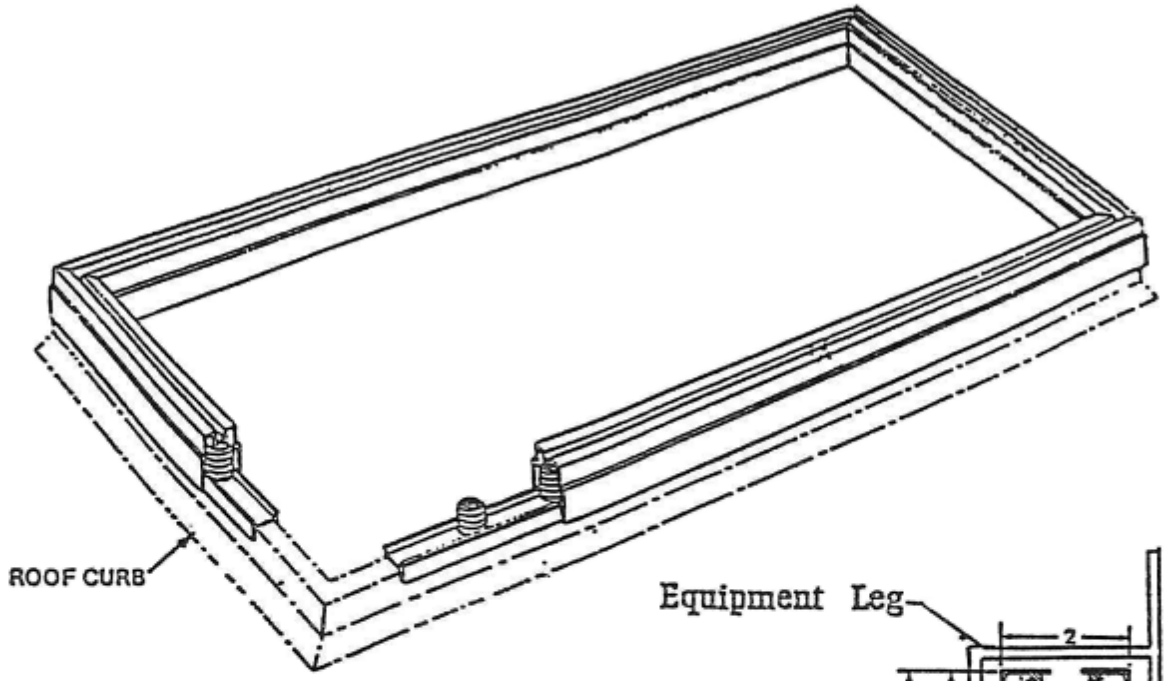
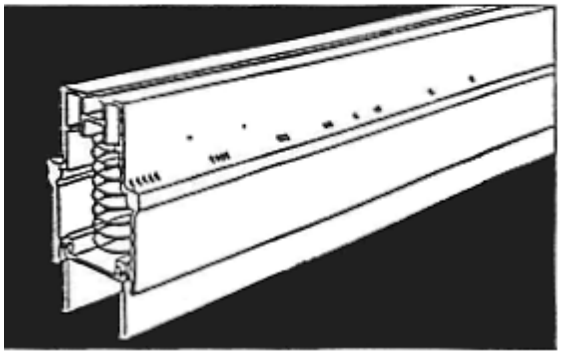
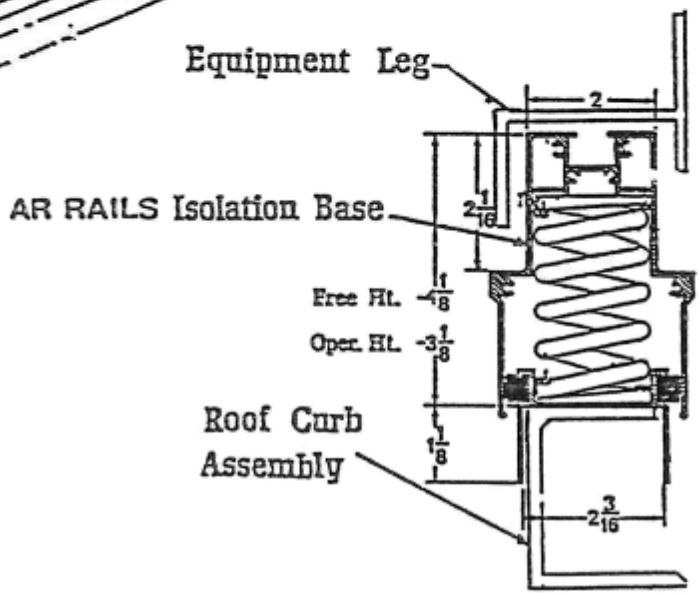
DRAWING NO. **MB-101A**







Type “AR” curb mounted rails consist of aluminum top and bottom separated by cadmium plated springs providing up to 1.0” deflection. The rails are totally enclosed and a resilient seal is furnished to protect against atmosphere and conditioned air.

“AR” rails consist of four or more rails having mitered corners to form a frame to mount on the customers’ roof curb. All joints are to be sealed by a resilient silicone caulking compound.

MODEL “AR” ROOF

CURB ISOLATION RAILS

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DRAWING NO. **AR-100**