

NOTES:

1. STANDARD ISOLATOR FINISH: CASTING AND WELDMENTS- ONE COAT BLACK PAINT, SPRINGS- POWDER COATED, HARDWARE- ZINC ELECTROPLATE.

2. EST. UNIT WEIGHT: 190 LBS.

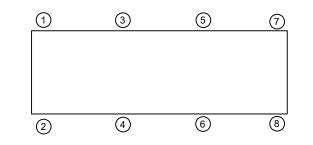
- 3. STATIC LOAD RATINGS ON SHEET 2 OF 2 ARE FOR GUIDANCE ONLY. VALUES ARE BASED ON TESTS OR CALCULATIONS WITH BASE PLATES BOLTED TO STEEL. FOR ATTACHMENT TO CONCRETE, CONSULT FACTORY.
- 4. RATED DEFLECTIONS ARE WITHIN 25% OF NOMINAL. HIGHER DEFLECTIONS ARE ALLOWED IF THEY MEET SPECIFICATIONS.

REV. DESCRIPTION DATE

BY

MODEL	RATED LOAD (LBS)	RATED DEFLECTION (IN)	SPRING RATE (LB/IN)	SPRING COLOR CODE
M4SH-1E-4000	4000	1.00	4000	TAN
M4SH-1E-4800N ¹	4800	1.04	4616	TAN/ DK BLUE
M4SH-1E-5600	5600	1.00	5600	PINK
M4SH-1E-6800N1	6800	1.10	6180	PINK/ DK BLUE
M4SH-1E-8000	8000	1.11	7208	WHITE
M4SH-1E-9320N1	9320	1.11	8400	WHITE/ RED
M4SH-1E-10300N1	10300	1.11	9280	WHITE/DK PURPLE
M4SH-1E-11960N1	11960	1.11	10776	WHITE/DK GREEN
M4SH-1E-13000N1	13000	1.04	12500	WHITE/GRAY

1. TWO NESTED SPRINGS YIELD THIS LOAD. THE COLOR CODE IS FOR OUTER SPRING/ INNER SPRING.



ISOLATOR SELECTIONS				
LOC 1:	LOC 2:			
LOC 3:	LOC 4:			
LOC 5:	LOC 6:			
LOC 7:	LOC 8:			
CUSTOMER EQP'T. TAG:				

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR

NOTE: MATERIAL SHOWN IS FOR (1) SET.

			FROPERTIES MAT	BE SUBSTITUTED AS THET	BECOIVE AVAILABLE	E .
<u>myssy</u> rm	CERTIFIED FOR:			SCALE : NONE		
S STAR	JOB NAME:	MODEL M4SH-1E 4000-13000 LBS. VIBRATION ISOLATOR SEISMIC		SHEET:	omem6 کو کو ا	
		RESTRAINT	VMC	1 OF 2		
	CUSTOMER P.O.:	1 INCH DEFLECTION	GROUP DRAWING NO.:			REVISION
	SALES ORDER:		Bloomingdale, NJ 07403			

PROPRIETARY: EXCEPT AS OTHERWISE AGREED IN WRITING, THE INFORMATION AND DESIGN DISCLOSED HEREIN ARE THE PROPERTY OF THE VMC GROUP AND MUST NOT BE COPIED OR DISTRIBUTED OUTSIDE THE VMC GROUP EXCEPT TO AUTHORIZED PERSONS WITH A GENUINE NEED TO KNOW WHO BY THE USE HEREOF ACKNOWLEDGE THE VMC GROUP'S OWNERSHIP AND AGREE TO MAINTAIN THIS INFORMATION AND DESIGN IN STRICT CONFIDENCE.

179R-101837 REV.	.:6 3/3/22			REV.	DESCRIPTI	ON	DATE	BY	
 INSTALLATION AND ADJUSTMENT INSTRUCTIONS ISOLATORS ARE SHIPPED FULLY ASSEMBLED AND ARE TO BE SPACED AND LOCATED IN ACCORDANCE WITH INSTALLATION DRAWINGS OR AS OTHERWISE RECOMMENDED. LOCATE ISOLATORS ON A LEVEL FLOOR OR SUB-BASE, ENSURING THAT ALL ISOLATOR CENTERLINES MATCH THE EQUIPMENT MOUNTING HOLES. SHIM OR GROUT AS REQUIRED TO LEVEL ALL ISOLATOR BASE PLATES. A 1/4" MAXIMUM DIFFERENCE IN ELEVATION CAN BE TOLERATED. ANCHOR ALL ISOLATORS TO THE FLOOR OR SUB-BASE AS RECOMMENDED. GENTLY PLACE MACHINE OR EQUIPMENT ONTO TOP PLATE OF ISOLATOR BOLT EQUIPMENT OR SUB BASE SECURELY TO ISOLATOR USING MINIMUM ASTM A325 (SAE GR. 5) HIGH STRENGTH BOLTS. BOLTS SHOULD NOT PROTRUDE MORE THAN 1/8" BELOW THE TOP PLATE. THE EQUIPMENT WEIGHT WILL CAUSE THE SPRING AND THUS THE TOP PLATE TO DESCEND AND REST ON THE UPPER BUMPER PADS. 				26 24 22 20 18 18 16 16					
 BACK-OFF ON THE TWO (2) SIDE LIMIT STOP LOCKNUTS, SO THAT THEY DO NOT HAMPER THE ADJUSTMENT PROCESS. ADJUST EACH AND EVERY ISOLATOR IN SEQUENCE, ONE FULL CLOCKWISE TURN AT A TIME. REPEAT THIS PROCEDURE UNTIL THE 1/4" OPERATING CLEARANCE IS OBTAINED. NOTE: BE SURE LIMIT STOP NUTS CONTINUE TO SHOW CLEARANCE. CHECK EQUIPMENT LEVEL AND FINE ADJUST ISOLATORS AS NECESSARY TO OBTAIN EQUIPMENT LEVEL. ADJUST ALL LIMIT STOP NUTS TO OBTAIN A 1/4" MAXIMUM CLEARANCE. ADJUSTMENT IS COMPLETE. 			24000	15300 POUNDS					
RATED LOAD CURVES			22000		t+++++++ 2	4 6 8	++++++++ 10 12 14	++++ 16	
 TO USE THE RATED LOAD CURVES: A. CALCULATE VERTICAL AND HORIZONTAL FORCES ACTING ON MOUNTINGS, INCLUDING TRANSLATIONS AND OVERTURNING MOMENTS. B. THE INTERSECTION OF THE HORIZONTAL LOAD AND VERTICAL LOAD MUST FALL WITHIN THE CURVE FOR THE SPECIFIED PART. 		2000 - 18000 - 0 16000 - 14000 -		(A)	HORIZONTAL LOAD (THO FIGURE 1 SEISMIC RATIN TTACHMENT TO CC	GS			
 THE RATED LOAD CURVES ASSUME ONE OF THE FOLLOWING METHODS OF TIE-DOWN AT EACH BOLT LOCATION: FOUR (4) 3/4" DIA. HILTI "KWIK-BOLT II" WEDGE ANCHORS, WITH MINIMUM 4 3/4" EMBEDMENT INTO 3000 PSI CONCRETE. MINIMUM EDGE DISTANCE IS 9 3/4". (NOTE: OTHER BRANDS OF ANCHOR BOLTS MAY BE USED, PROVIDED THEY ARE OF EQUAL STRENGTH AND HAVE A CURRENT ICBO REPORT). 			TOTE 12000 - 12000 - 100000 - 10000 - 10000 - 10000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 1000000 - 1000000 - 1000000 - 100000000			Λ			
TO ACHIÉVE RATED LOAD, "SPECIAL INSPECTION" IS REQUIRED ON ALL CONCRETE ANCHOR INSTALLATIONS, AS DESCRIBED BELOW: a) 50% OR ALTERNATE BOLTS IN A GROUP SHALL BE TENSION TESTED TO 6200 LBS TENSION. b) TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF ANCHORS. c) IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TESTING FREQUENCY. B. FOUR (4) 3/4" DIA. BOLTS PER ASTM A307 OR BETTER. 4. THE SUIPPORT STRUCTURE (BY OTHERS) IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER				HORIZ	00 700 800 900 1000 1100 120 ONTAL LOAD SURE 2 C RATINGS	00 13000			
			(A)		ENT TO STEEL)				
				PROPERTIES MAY	S, COMPOUNDS, OR FINISH BE SUBSTITUTED AS THEY	ES WITH EQUAL C	OR SUPERIOR BLE.		
	CERTIFIED FOR:				()	scale : NONE			
P.Sett. Joard	JOB NAME:	MODEL M4SH-1E				Member			
State Ha	CUSTOMER :	VIBRATION ISO	MIC	VMC	2 OF 2		<u>CIALL</u>		
SEL M	CUSTOMER P.O.:		RAIN I FLECTION			DRAWING NO.:		REVISION	
	SALES ORDER:				Bloomingdale, NJ 07403 Houston, TX 77041				

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