179R-101841 REV.: 6

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3/4-10 UNC TAPPED

ATTACHMENT TO CONCRETE (6 TYP)

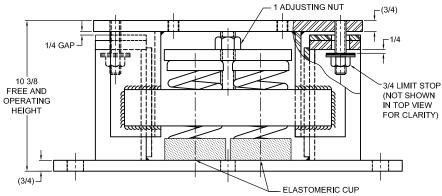
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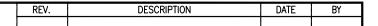
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1 1/2



NOTES:

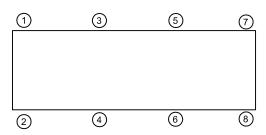
- 1. STANDARD ISOLATOR FINISH: CASTING AND WELDMENTS- ONE COAT BLACK PAINT,
- SPRINGS- POWDER COAT, HARDWARE- ZINC ELECTROPLATE.
- 2. ESTIMATED UNIT WEIGHT: 200 LBS.
- 3. STATIC LOAD RATINGS ON SHEET 2 OF 2 ARE FOR GUIDANCE ONLY. VALUES ARE BASED ON TESTS OR CALCULATIONS WITH BASE PLATES BOLTED TO STEEL. FOR ATTACHMENT TO CONCRETE. CONSULT FACTORY.
- 4. RATED DEFLECTIONS ARE WITHIN 25% OF NOMINAL. HIGHER DEFLECTIONS ARE ALLOWED IF THEY MEET SPECIFICATIONS.



MODEL M4SH	MODEL M4SH-2F 4-SPRING SEISMIC ISOLATORS FOR NOMINAL 2" DEFLECTION						
MODEL	RATED LOAD (LBS)	DEFLECTION		SPRING COLOR CODE			
M4SH-2F-2000	2000	2.00	1000	RED			
M4SH-2F-2600N ¹	2600	2.00	1300	RED/BLUE			
M4SH-2F-3100N ¹	3100	2.00	1550	RED/BLACK			
M4SH-2F-4000	4000	2.00	2000	GREEN			
M4SH-2F-4600N1	4600	2.00	2300	GREEN/BLUE			
M4SH-2F-5100N ¹	5100	2.00	2550	GREEN/BLACK			
M4SH-2F-5600	5600	2.00	2800	GRAY			
M4SH-2F-6000N	6000	2.00	3000	GREEN/RED			
M4SH-2F-6700N ¹	6700	2.00	3350	GRAY/BLACK			
M4SH-2F-7600N ¹	7600	2.00	3800	GRAY/RED			
M4SH-2F-8800N1	8800	2.00	4400	GRAY/GREEN			

NOTES:

1. TWO NESTED SPRINGS YIELD THIS LOAD. THE COLOR CODE INDICATED 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:					

NOTE: MATERIAL SHOWN IS FOR (1) SET.

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.

CERTIFIED FOR:				
JOB NAME:				
CUSTOMER :				
CUSTOMER P.O.:				
SALES ORDER:				

MODEL M4SH-2F 2000-8800 LBS.
VIBRATION ISOLATOR SEISMIC
RESTRAINT
2 INCH DEFLECTION

THE ENTER MAN BE CODE IN CITE BECOME AWARDED.							
		NONE SHEET:	Memper				
	THE VMC GROUP The Power of Together Bloomingdale, NJ 07403 Houston, TX 77041	DRAWING NO.:		REVISION			

179R-101841 REV.: 6 REV. DESCRIPTION DATE BY INSTALLATION AND ADJUSTMENT INSTRUCTIONS 1. ISOLATORS ARE SHIPPED FULLY ASSEMBLED AND ARE TO BE SPACED AND LOCATED IN ACCORDANCE WITH INSTALLATION DRAWINGS OR AS OTHERWISE RECOMMENDED. 2. 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. 3. ANCHOR ALL ISOLATORS TO THE FLOOR OR SUB-BASE AS RECOMMENDED. 4. 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. 5. THE EQUIPMENT WEIGHT WILL CAUSE THE SPRING AND THUS THE TOP PLATE TO DESCEND AND REST ON THE UPPER BUMPER PADS. 15300 POUNDS 6. BACK-OFF ON THE TWO (2) SIDE LIMIT STOP LOCKNUTS, SO THAT THEY DO NOT HAMPER THE ADJUSTMENT PROCESS. 7. 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. 8. CHECK EQUIPMENT LEVEL AND FINE ADJUST ISOLATORS AS NECESSARY TO OBTAIN EQUIPMENT LEVEL. 9. ADJUST ALL LIMIT STOP NUTS TO OBTAIN A 1/4" MAXIMUM CLEARANCE. 24000 10. ADJUSTMENT IS COMPLETE. 22000 20000 FIGURE 1 SEISMIC RATINGS (ATTACHMENT TO CONCRETE) 18000 16000 RATED LOAD CURVES 14000 1. TO USE THE RATED LOAD CURVES: A. CALCULATE VERTICAL AND HORIZONTAL FORCES ACTING ON MOUNTINGS, INCLUDING 12000 TRANSLATIONS AND OVERTURNING MOMENTS. B. THE INTERSECTION OF THE HORIZONTAL LOAD AND VERTICAL LOAD MUST FALL WITHIN THE CURVE 10000 FOR THE SPECIFIED PART. 3. THE RATED LOAD CURVES ASSUME ONE OF THE FOLLOWING METHODS OF TIE-DOWN AT EACH BOLT 8000 LOCATION: A. FOUR (4) 3/4" DIA. HILTI "KWIK-BOLT II" WEDGE ANCHORS, WITH MINIMUM 4 3/4" EMBEDMENT INTO 6000 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 4000 TO ACHIEVE RATED LOAD, "SPECIAL INSPECTION" IS REQUIRED ON ALL CONCRETE ANCHOR 2000 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. 1000 2000 3000 6000 7000 8000 9000 10000 11000 12000 c) IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS UNTIL TWENTY (20) CONSECUTIVE ANCHORS HORIZONTAL LOAD PASS, THEN RESUME THE INITIAL TESTING FREQUENCY. B. FOUR (4) 3/4" DIA. BOLTS PER ASTM A307 OR BETTER. FIGURE 2 4. THE SUPPORT STRUCTURE (BY OTHERS) IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER SEISMIC RATINGS OF RECORD AND SHALL BE DESIGNED TO ADEQUATELY SUPPORT THE WEIGHTS AND FORCES SHOWN. (ATTACHMENT TO STEEL) OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH FOLIAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE. **CERTIFIED FOR:** NONE MODEL M4SH-2F 2000-8800 LBS. JOB NAME: SHEET VIBRATION ISOLATOR SEISMIC CUSTOMER: ___ **RESTRAINT** THE VMC GROUP DRAWING NO. REVISION CUSTOMER P.O. 2 INCH DEFLECTION The Power of Together

SALES ORDER:

Bloomingdale, NJ 07403

Houston, TX 77041