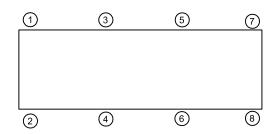


REV. DESCRIPTION DATE BY

MODEL M4SS-1E 4-SPRING SEISMIC ISOLATORS FOR NOMINAL 1" DEFLECTION RATED RATED LOAD SPRING RATE SPRING MODEL DEFLECTION (LBS) (LB/IN) COLOR CODE (IN) M4SS-1E-4000 4000 1.00 4000 TAN TAN/ DK BLUE M4SS-1E-4800N1 4800 1.04 4616 M4SS-1E-5600 5600 1.00 5600 PINK M4SS-1E-6800N1 6800 6180 PINK/ DK BLUE 1.10 M4SS-1E-8000 8000 1.11 7208 WHITE WHITE/ RED 9320 8400 M4SS-1E-9320N1 1.11 WHITE/DK PURPLE M4SS-1E-10300N1 10300 1.11 9280 M4SS-1E-11960N1 11960 1.11 10776 WHITE/DK GREEN WHITE/GRAY M4SS-1E-13000N<sup>1</sup> 13000 1.04 12500

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:			

NOTE: MATERIAL SHOWN IS FOR (1) SET.

NOTES:

1. STANDARD ISOLATOR FINISH: WELDED HOUSINGS AND CASTINGS- ONE COAT BLACK PAINT, SPRINGS- POWDER COAT, HARDWARE- ZINC ELECTROPLATE.

(3/4)

3/8 GAP -

8 3/4

FREE AND

OPERATING

HEIGHT

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.

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 M4SS-1E 4000-13000 LBS. VIBRATION ISOLATOR WITH SINGLE BOLT ATTACHMENT SEISMIC RESTRAINT 1 INCH DEFLECTION	THE VMC GROUP The Power of Together Bloomingdale, NJ 07403 Houston, TX 77041	SCALE: NONE SHEET: DRAWING NO.:	Momt	
POPRIETARY: EXCEPT AS OTHERWISE AGREED IN WRITING THE INFORMATION AND DESIGN D	SCLOSED HEREIN ARE THE PROPERTY OF THE VMC GROUP AND MUST NOT BE COPIED OR DISTRIBUTED OUT	SIDE THE VMC GROUP EXCEPT TO ALIT	HODIZED DEDGONIC WITH A	GENITIME MEED TO I	KNOW

(3/4)

**⊢**7/16

ELASTOMERIC

1/2 LIMIT STOP

(NOT SHOWN IN TOP VIEW FOR CLARITY)

SNUBBER

128R-101906   REV.: 6		REV.	DES	SCRIPTION	DATE	BY
INSTALLATION AND ADJUSTMENT INSTRUCTIONS  1) LOCATE MOUNTING AS SPECIFIED ON INSTALLATION DRAWING. 2) ATTACH MOUNTS TO SUPPORT STRUCTURES. 3) PLACE EQUIPMENT ON MOUNTS. 4) LOOSEN LIMIT STOP NUTS (DO NOT REMOVE). 5) TURN ADJUSTING NUT (MAINTAIN EVEN LOADING ON ALL ADJUSTING BREPAT STEPS 1 THROUGH 5 GOING FROM MOUNT TO MOUNT UNTIL EQUIPMENT IS RAISED SUFFICIENTLY TO PERMIT REMOVAL OF STEEL SHIMS. 7) CHECK LEVEL OF EQUIPMENT & ADJUST MOUNTS ACCORDINGLY. 8) AFTER ALL MOUNTS HAVE BEEN ADJUSTED TIGHTEN LIMIT STOP NUTO MAINTAIN GAP AS ILLUSTRATED. NOTES: 1) TOP PLATE OF HOUSING MUST BE FULLY LOADED BY THE EQUIPMENT SUPPORTING BRACKET OR STRUCTURAL STEEL BASE.			ATED CURVE FOR ITACHMENT TO CONCRETE	(THOUSAND POUNDS)—TENSION or compression 9	- RATED CURVE FOR ATTACHMENT STEEL COMPONEN	
GENERAL NOTES  1. HORIZONTAL AND VERTICAL RATINGS OF M4SS-1E SERIES ARE SHOWN IN FIGURE 1, 2 IN ACCORDANCE WITH APPLICABLE CODES  2. TO USE RATED LOAD CURVES: A. CALCULATE VERTICAL AND HORIZONTAL FORCES ACTING ON MOUNTINGS, INCLUDING B. THE INTERSECTION OF THE HORIZONTAL LOAD AND VERTICAL LOAD MUST FALL WITH SPECIFIED PART AND METHOD OF ATTACHMENT.	TRANSLATIONS AND OVERTURNING MOMENTS.	·	<del>                                     </del>	001 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80 90 90 1111111111111111111111111111111	
3. THE RATED LOAD CURVES ASSUME ONE OF THE FOLLOWING METHODS OF TIE-DOWN A A. FOUR (4) 5/8" DIA. HILTI "KWIK-BOLT II" WEDGE ANCHORS, WITH MINIMUM 4" EMB CONCRETE. MINIMUM EDGE DISTANCE IS 8 1/4".  (NOTE: OTHER BRANDS OF ANCHOR BOLTS MAY BE USED, PROVIDED THEY ARE OF TO ACHIEVE RATED LOAD, "SPECIAL INSPECTION" IS REQUIRED ON ALL CONCRETE A 0) 50% OR ALTERNATE BOLTS IN A GROUP SHALL BE TESTED USING EITHER TEST W	EDMENT INTO 3000 PSI NORMAL WEIGHT  EQUAL STRENGTH)  NOHOR INSTALLATIONS, AS NOTED BELOW:	HORIZONTAL LOAD (THOUSAND FIGURE 1	POUND)	HORIZONTAL LOAD (THOU		
ANCHOR DIA. WEDGE ANCHOR TENSION TORQUE LOAD (LBS) (FT-LB)				12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
5/8" 2300 80  ANCHOR DIA REFERS TO THE THREAD SIZE FOR WEDGE ANCHOR.  b) APPLY PROOF TEST LOAD TO WEDGE ANCHORS WITHOUT REMOVING THE NUT, IF IF THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TO  c) REACTION LOADS FROM TEST FIXTURE MAY BE APPLIED CLOSE TO THE ANCHOR B RESTRAINED FROM WITHDRAWING BY THE FIXTURE.  d) TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN PROCEDURE.  e) TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER THE INSTALLATION OF THE A 17 THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS: HYDRAULIC RAM METHOD  THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE SPECIFIED TEST OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.	RQUE WRENCH AND APPLY LOAD.  REING TESTED, PROVIDED THE ANCHOR IS NOT  A ACCORDANCE WITH STANDARD RECOGNIZED  NCHORS.  LOAD. A PRACTICAL WAY TO DETERMINE	RATED LOADS FOR M4SS-1E SERIE		VERTICAL LOAD (THOUSAND POUNDS)	RATED CURVE FOR ATTACHM STEEL COMPO	MENT TO
TORQUE WRENCH METHOD  THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF (1/2) TURN  g) IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.  B. FOUR (4) 5/8" DIA. BOLTS PER ASTM A307 OR BETTER.	I OF THE NUT. PREVIOUSLY TESTED UNTIL TWENTY (20)			HORIZONTAL LOAD (THOUS	AND POUND)	
THE SUPPORT STRUCTURE (BY OTHERS) INCLUDING FLOOR, IS THE RESPONSIBILITY (     FOR A SITE SPECIFIC PROJECT.     S. ALL UTILITY CONNECTIONS SHALL HAVE SUFFICIENT FLEXIBILITY TO PERMIT ADEQUATE I			OTHER M PROPERT	FIGURE  ATERIALS, COMPOUNDS, OR FINIS TIES MAY BE SUBSTITUTED AS THE	— HES WITH EQUAL (	OR SUPERIOR BLE.
CERTIFIED FOR:				SCALE :		
JOB NAME:	MODEL M4SS-1E 400 VIBRATION ISOLATOR W			NONE SHEET:	M ● M	SEMA
CUSTOMER:	ATTACHMENT SEISM			I DRAWING NO		I project
CUSTOMED DO:			THE VMC GRO	☐ ☐ DRAWING NO.:		REVISION

1 INCH DEFLECTION

The Power of Together Bloomingdale, NJ 07403

Houston, TX 77041

CUSTOMER P.O.:\_

SALES ORDER: