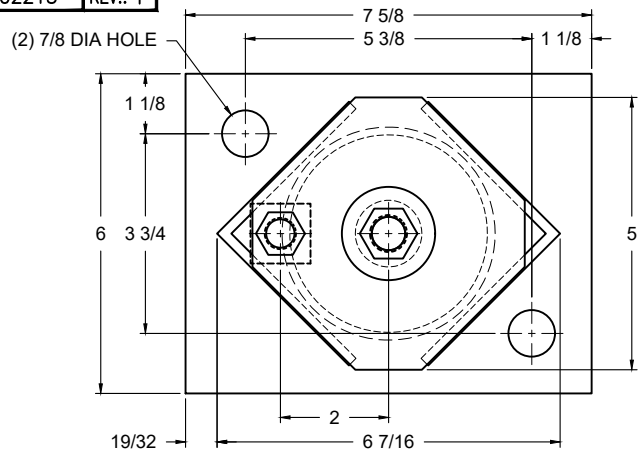
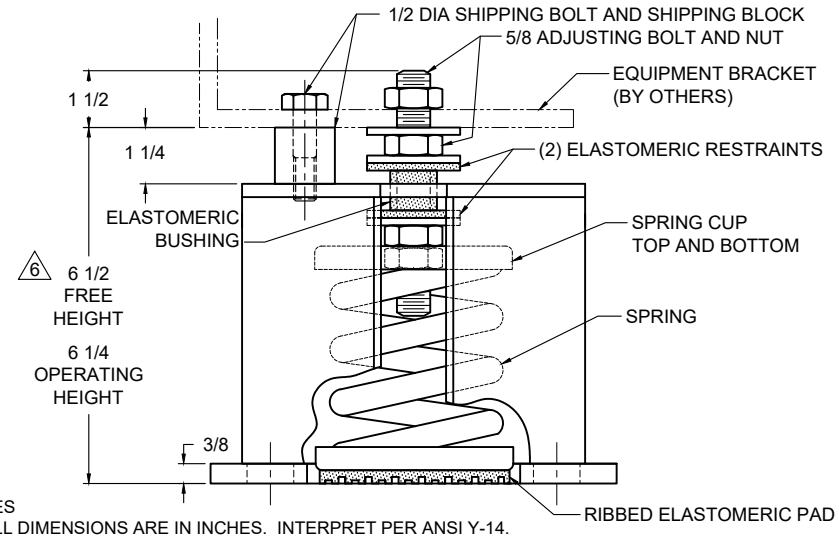
180R–102213 | REV.: 4

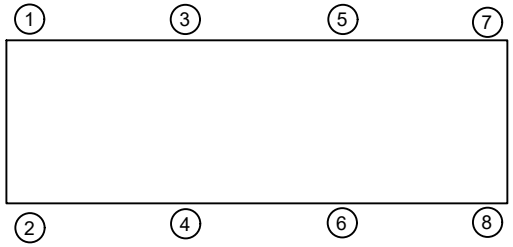
REV.	DESCRIPTION	DATE	BY





TYPE AMSR-1E-SB SEISMICALLY RESTRAINED SPRING VIBRATION ISOLATORS WITH SHIPPING BLOCK						
MODEL	RATED LOAD (LBS)	RATED DEFLECTION (IN)	SPRING RATE (LB/IN)	SPRING COLOR CODE	ALLOWABLE G RATING[2]	
					HORIZONTAL	VERTICAL
AMSR-1E-195-SB	195	1.95	100	DK BLUE	7.2	10.1
AMSR-1E-400-SB	400	1.32	303	BLACK	3.5	4.9
AMSR-1E-530N[1]-SB	530	1.17	453	BLACK/ DK BLUE	2.6	3.7
AMSR-1E-650-SB	650	1.05	620	RED	2.2	3.0
AMSR-1E-825N[1]-SB	825	1.07	770	RED/ DK BLUE	1.7	2.4
AMSR-1E-1000-SB	1000	1.00	1000	TAN	1.4	2.5
AMSR-1E-1200N[1]-SB	1200	1.04	1150	TAN/ DK BLUE	1.2	2.1
AMSR-1E-1400-SB	1400	1.00	1400	PINK	1.0	1.8
AMSR-1E-1700N[1]-SB	1700	1.10	1550	PINK/ DK BLUE	0.8	1.4
AMSR-1E-2000-SB	2000	1.11	1800	WHITE	0.7	1.2
AMSR-1E-2330N[1]-SB	2330	1.11	2100	WHITE/ RED	0.6	1.1
AMSR-1E-2575N[1]-SB	2575	1.11	2313	WHITE/DK PURPLE	0.5	1.0
AMSR-1E-2990N[1]-SB	2990	1.12	2681	WHITE/DK GREEN	0.5	0.8
AMSR-1E-3250N[1]-SB	3250	1.04	3127	WHITE/GRAY	0.4	0.8

TABLE NOTES:
1. TWO NESTED SPRINGS YIELD THIS LOAD.
2. ALL ALLOWABLE G RATINGS ARE BASED ON HILTI KWIKBOLT TZ WEDGE ANCHORS (OR EQUAL) IN STONE AND AGGREGATE CONCRETE (Fc=3000 PSI).



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. ALL DIMENSIONS ARE IN INCHES. INTERPRET PER ANSI Y-14.
2. FINISH: HOUSING- ONE COAT BLACK PAINT, SPRING- BLACK PAINT, HARDWARE- ZINC ELECTROPLATE.
3. INNER NESTED SPRING, WHEN USED, NOT SHOWN. SEE SPRING TABLE, NOTE 1.
4. ALL SPRINGS DESIGNED WITH 50% OVER-TRAVEL.
5. REFER TO TABLE ABOVE FOR ALLOWABLE HORIZONTAL AND VERTICAL G RATINGS. SEE TABLE NOTE 2.
6. PRIOR TO MOUNTING EQUIPMENT, THE INTERNAL VERTICAL RESTRAINT WILL BE AGAINST THE HOUSING TOP PLATE AND THE ADJUSTING NUT WILL BE 1/4" ABOVE THE BLOCK AT THE "FREE HEIGHT." WHEN THE EQUIPMENT IS MOUNTED, THE SPRING WILL DEPRESS AND REST ON THE SHIM AT THE "OPERATING HEIGHT."
7. RATED DEFLECTIONS ARE WITHIN 25% OF NOMINAL. HIGHER DEFLECTIONS ARE ALLOWED IF THEY MEET SPECIFICATIONS.

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 AMSR-1E-SB 195-3250 LBS. SEISMIC ISOLATORS WITH SHIPPING BLOCK 1 INCH DEFLECTION

VMC GROUP
THE POWER OF TOGETHER
Bloomingdale, NJ 07403
Houston, TX 77041

SCALE : NONE

SHEET: 1 OF 2

Member VISCMA

DRAWING NO.:

REVISION

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REV.	DESCRIPTION	DATE	BY

READ INSTRUCTIONS IN THEIR ENTIRETY BEFORE BEGINNING.

FACTORY INSTRUCTIONS

1. ISOLATORS ARE SHIPPED FULLY ASSEMBLED AND ARE TO BE SPACED AND ARRANGED IN ACCORDANCE WITH INSTALLATION DRAWINGS OR AS OTHERWISE RECOMMENDED.

2. SET ISOLATORS ON FLOOR OR SUB-BASE, ENSURING THAT ALL ISOLATOR CENTERLINES MATCH THE EQUIPMENT MOUNTING HOLES OR SPACE AND ARRANGE ISOLATORS IN ACCORDANCE WITH THE INSTALLATION DRAWING. SHIM OR GROUT AS REQUIRED LEVELING ALL ISOLATOR BASE PLATES AT THE SAME ELEVATION (1/4" MAXIMUM DIFFERENCE IN ELEVATION CAN BE TOLERATED). ISOLATOR BASE MUST REST ON A FLAT SURFACE.

3. PRIOR TO ANCHORING THE BASEPLATE, THE ISOLATOR HOUSING MAY BE ELEVATED SLIGHTLY ABOVE THE FINISHED FLOOR. ANCHOR DOWN ISOLATORS USING BASE PLATE THRU HOLES **"H"**. PULL DOWN ISOLATOR HOUSING USING ANCHOR BOLTS UNTIL ISOLATOR BASE PLATE **"E"** IS FIRMLY AGAINST THE FLOOR. THIS WILL PRELOAD THE SPRING WITHIN THE HOUSING AND PUSH THE INTERNAL STOP **"A"** AGAINST THE HOUSING TOP PLATE.

4. PRIOR TO MOUNTING EQUIPMENT, INTERNAL STOP **"A"** WILL BE AGAINST THE TOP PLATE AND WASHER **"F"** WILL BE APPROXIMATELY 1/4" ABOVE THE SHIPPING BLOCK AT THE "FREE HEIGHT."

5. REMOVE SHIPPING BOLT, BUT LEAVE THE SHIPPING BLOCK IN PLACE.

6. REMOVE EQUIPMENT ATTACHMENT NUT **"B"** ON ISOLATOR STUD **"C"** AND PLACE EQUIPMENT ON ISOLATOR WASHER **"F"**. THE EQUIPMENT WEIGHT WILL COMPRESS THE SPRING INSIDE THE HOUSING AND EQUIPMENT BRACKET WILL REST ON THE SHIPPING BLOCK AT THE "OPERATING HEIGHT."

7. TURN THE ADJUSTING NUT **"D"** UNDER THE WASHER COUNTER-CLOCKWISE TO COMPRESS THE SPRING. WHEN THE LOAD IS EQUALIZED, TURNING THE NUT WILL RAISE THE EQUIPMENT UNTIL THE INTERNAL GAP **"G-1"** IS APPROXIMATELY EQUAL TO THE EXTERNAL GAP **"G-2"**. (I.E. THE EQUIPMENT CAN MOVE UP OR DOWN, THE SAME DISTANCE IN A SEISMIC EVENT).

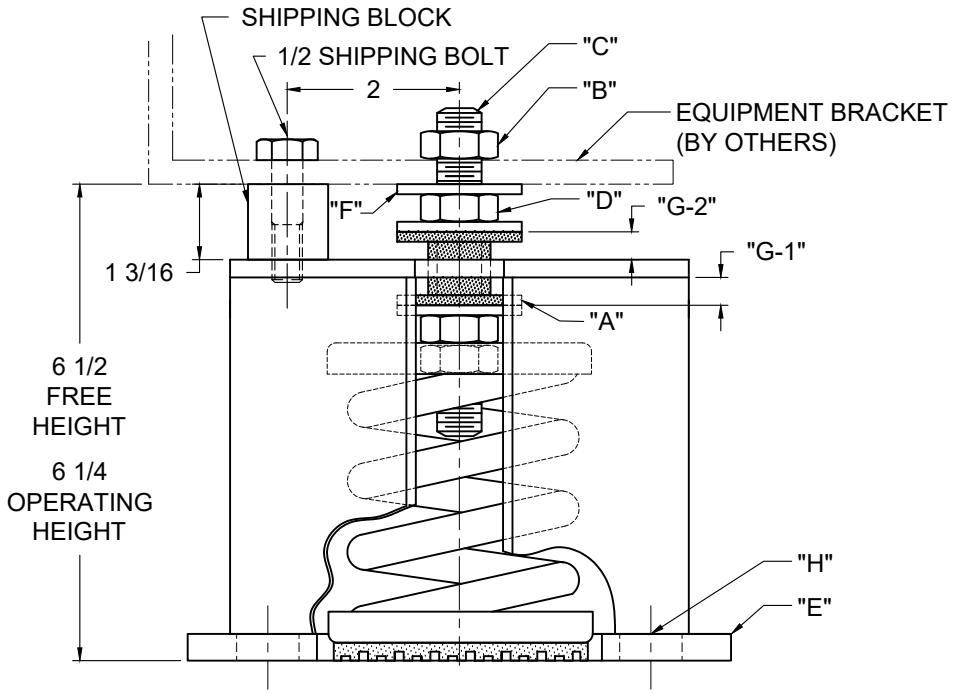
8. THE ADJUSTING PROCESS SHOULD BE DONE GRADUALLY ON ALL ISOLATORS UNTIL THE EQUIPMENT WEIGHT IS NO LONGER RESTING ON THE SHIPPING BLOCKS.

9. REPLACE ISOLATOR ATTACHMENT NUTS **"B"** ON ADJUSTING BOLTS **"C"** TO SECURE MACHINE LEGS TO ISOLATORS. HAND TIGHTEN WHERE THERE IS FIRM CONTACT BETWEEN THE NUT AND EQUIPMENT. (HAND TOOLS MAY BE USED.) THEN TIGHTEN THE NUT AN ADDITIONAL 1/3 TURN. REPLACE SHIPPING BOLT AND HAND-TIGHTEN WHERE THERE IS FIRM CONTACT BETWEEN THE BOLT AND EQUIPMENT BRACKET. TOOLS MAY BE USED TO BRING THE BOLT AND METAL COMPONENTS INTO CONTACT. FOLLOWING CONTACT, TIGHTEN THE BOLT ANOTHER 1/3 TURN.

FIELD INSTRUCTIONS

1. SHIPPING BLOCK FIXES THE EQUIPMENT AT THE OPERATING HEIGHT. AFTER EQUIPMENT IS INSTALLED AT ITS FINAL LOCATION, REMOVE SHIPPING BOLT. iF THE BLOCK WILL NOT SLIDE OUT, TURN ADJUSTING NUT COUNTER-CLOCKWISE UNTIL EQUIPMENT DEAD LOAD IS NO LONGER RESTING ON SHIPPING BLOCK. REMOVE SHIPPING BLOCK AND DISCARD.

2. THRUST RESTRAINTS MUST BE ADDED TO THE FAN IF THE TOTAL FAN STATIC PRESSURE IS 2" W.G. OR GREATER.



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MODEL AMSR-1E-SB 195-3250 LBS. SEISMIC ISOLATORS WITH SHIPPING BLOCK 1 INCH DEFLECTION

VMC GROUP
THE POWER OF TOGETHER
Bloomingdale, NJ 07403
Houston, TX 77041

SCALE : NONE

SHEET: 2 OF 2

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DRAWING NO.:

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