IP UNITS (INCHES AND POUNDS)

TYPE	DIMENSION																			
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
FMSD	7.00	12.25	7.00	13.75	1.25	1.00	5.25	0.69	0.81	1.13	5.75	11.50	1.13	3.50	0.94	5.13	0.94	10.38	2.00	1.25

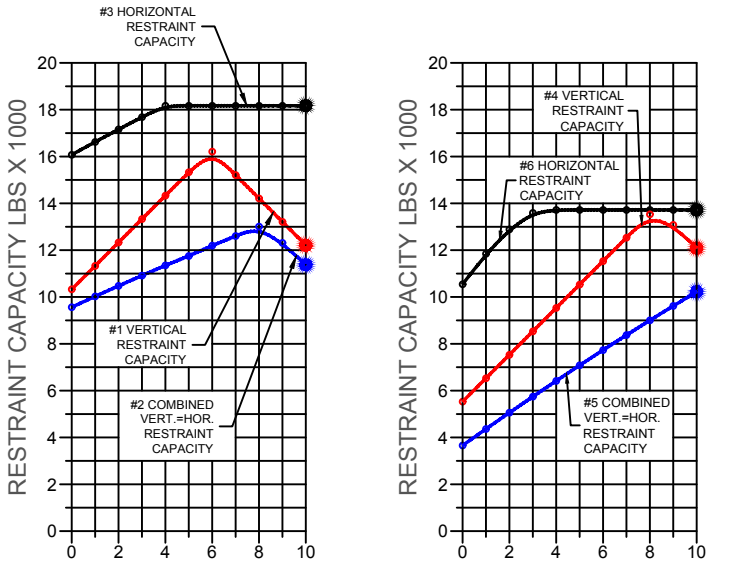


FIGURE 2
STEEL ATTACHMENT

FIGURE 3
CONCRETE ATTACHMENT

FMSD REQUIRES 0.63 X 4.00 MIN EMBED ANCHORS IN CONCRETE
(ALLOWABLE LOADS BASED ON 3000 PSI MIN CONCRETE)
FMSD ANCHOR BOLT TORQUE - 75 FT-LB, PULL TEST - 2670 LBS

RESTRAINT CAPACITY ENVELOPE GENERATION

RESTRAINT ONLY (NO SPRING ELEMENT)

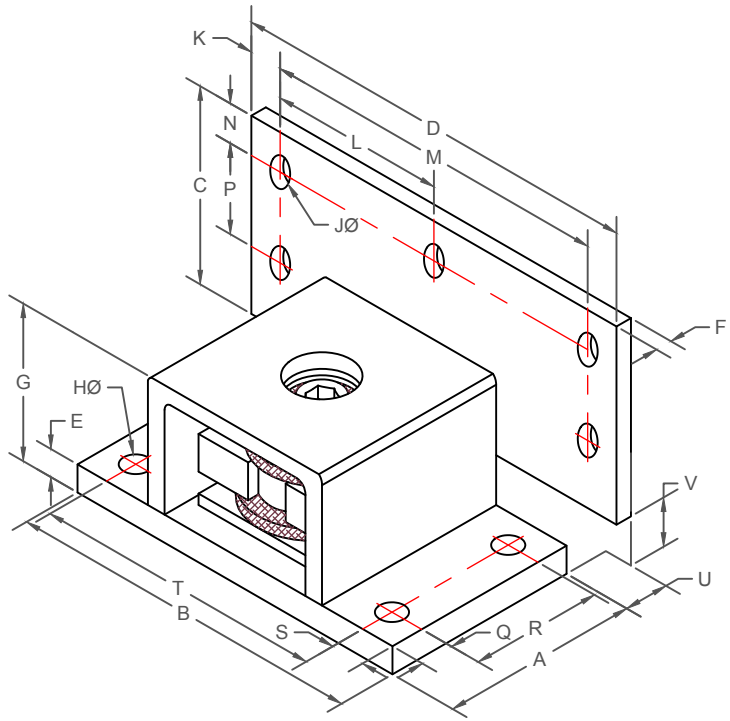
1) READ THE ANCHORED (CONCRETE) OR BOLTED (STEEL) ENVELOPES DIRECTLY FROM FIGURE 1.

RESTRAINT WITH SPRING SUPPORT ELEMENT (ISOLATOR/RESTRAINT)

1) DETERMINE THE MAXIMUM EQUIPMENT LOAD SUPPORTED BY THE ISOLATOR(S)
2) IF THROUGH-BOLTED (STEEL), REFER TO FIGURE 2. IF ANCHORED (CONCRETE), REFER TO FIGURE 3.
3) PLOT THE VERTICAL RESTRAINT CAPACITY FROM CURVE #1 (FIGURE 2) OR #4 (FIGURE 3) ON THE VERTICAL AXIS OF FIGURE 1.
4) PLOT THE HORIZONTAL RESTRAINT CAPACITY FROM CURVE #3 (FIGURE 2) OR #6 (FIGURE 3) ON THE HORIZONTAL AXIS OF FIGURE 1.
5) PLOT THE COMBINED RESTRAINT CAPACITY FROM CURVE #2 (FIGURE 2) OR #5 (FIGURE 3) AT THE POINT ON FIGURE 1 WHERE THE VERTICAL AND HORIZONTAL FORCES BOTH MATCH THIS VALUE.
6) CONNECTING THESE POINTS CREATES AN ENVELOPE THAT SHOWS THE RESTRAINT'S CAPACITY WHEN SUBJECTED TO EQUIPMENT SUPPORT AND SEISMIC LOADS SIMULTANEOUSLY.
7) FOR THE RESTRAINT TO BE ADEQUATE, ALL WORST CASE SEISMIC LOADS MUST FALL WITHIN THE ENVELOPE.

SPECIFICATIONS:

- 3 AXIS RESTRAINT WITH REPLACEABLE NEOPRENE SNUBBING ELEMENTS.
- RESTRAINTS ARE POWDER COATED.
- HOUSINGS MAY BE USED FOR BLOCKING DURING EQUIPMENT ERECTION.
- CAN BE USED WITH OR WITHOUT SPRING COIL.



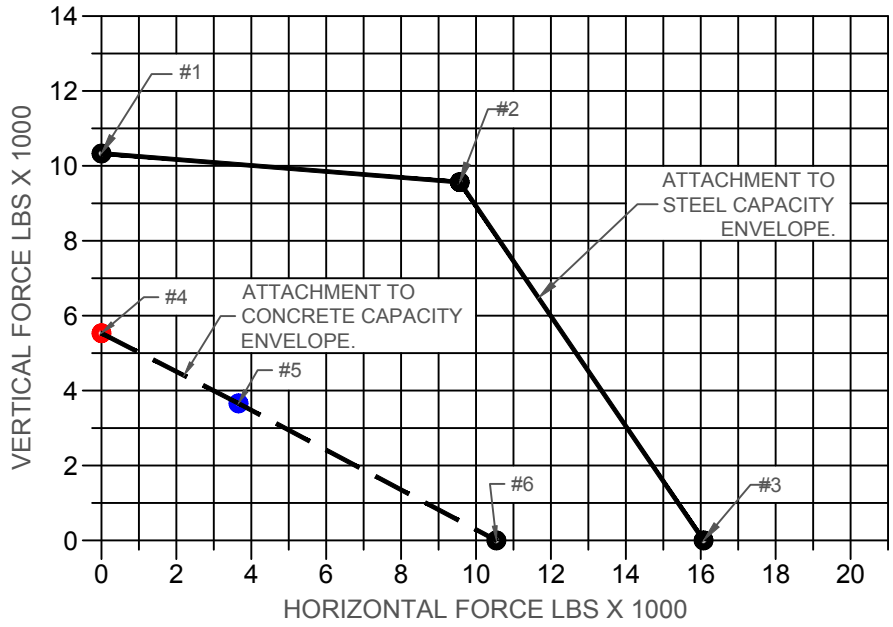


FIGURE 1
RESTRAINT CAPACITY ENVELOPE

KINETICS Noise Control

Member VISCMA
Vibration Isolation and Seismic Control Manufacturers Association

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Model: FMSD RESTRAINT

By: JMJ
Date: 08/14/03
Revised: 05/21/12 / BB

Drawing No: S-01.40-400