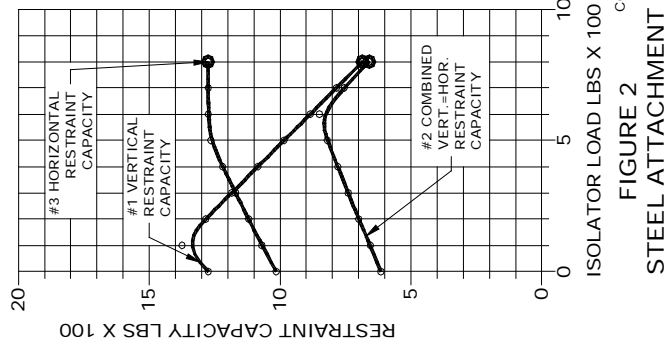


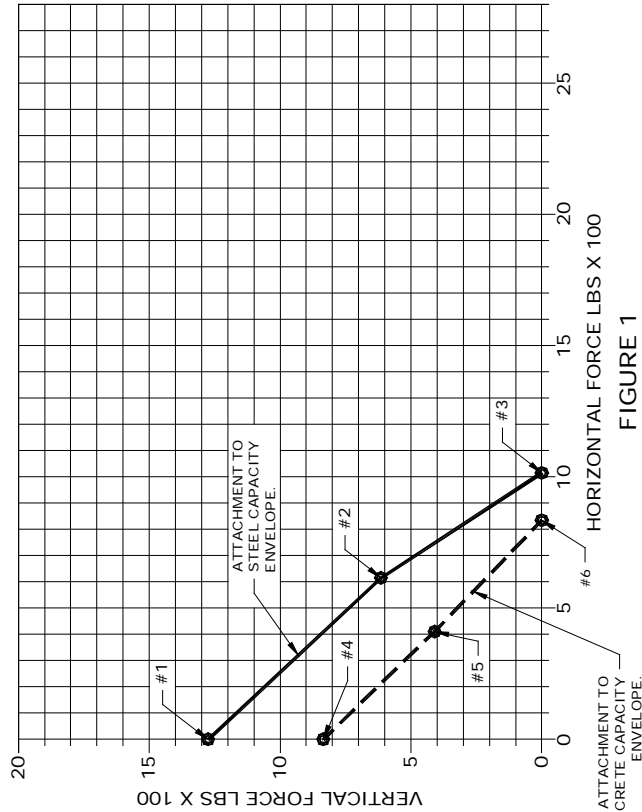


**INSTRUCTIONS FOR CONSTRUCTION OF A CAPACITY ENVELOPE:**

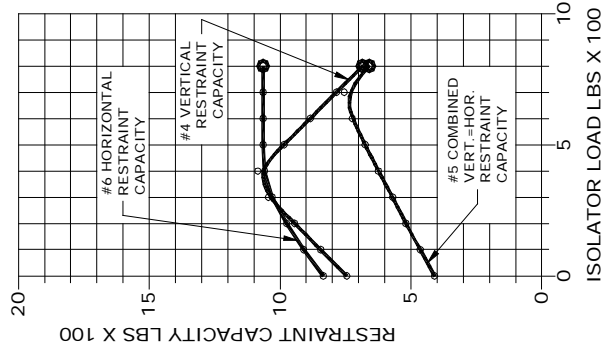
- 1.) TO GENERATE THE SEISMIC RESTRAINT CAPACITY ENVELOPE, THE HIGHEST ISOLATOR LOAD FOR THE PIECE OF EQUIPMENT UNDER REVIEW IS USED AS A STARTING POINT.
- 2.) DETERMINE WHETHER THE ATTACHMENT IS TO BE TO STEEL, SELECT FIGURE 2, OR CONCRETE, SELECT FIGURE 3.
- 3.) THE VERTICAL RESTRAINT CAPACITY @ THE LOAD DETERMINED IN STEP 1 IS READ FROM CURVE #1 (FIG. 2) OR CURVE #4 (FIG. 3) AND PLOTTED ON THE VERTICAL AXIS OF FIGURE 1.
- 4.) THE HORIZONTAL RESTRAINT CAPACITY @ THE LOAD DETERMINED IN STEP 1 IS READ FROM CURVE #3 (FIG. 2) OR CURVE #6 (FIG. 3) AND PLOTTED ON THE HORIZONTAL AXIS OF FIGURE 1.
- 5.) THE COMBINED RESTRAINT CAPACITY IS THE POINT WHERE VERTICAL & HORIZONTAL CAPACITIES ARE EQUAL. THE COMBINED RESTRAINT CAPACITY @ THE LOAD DETERMINED IN STEP 1 IS READ FROM CURVE #2 (FIG. 2) OR CURVE #5 (FIG. 3). DRAW A HORIZONTAL LINE FROM THIS VALUE ON THE VERTICAL AXIS, AND A VERTICAL LINE FROM THIS VALUE ON THE HORIZONTAL AXIS. THE INTERSECTION POINT IS THE COMBINED CAPACITY POINT FOR THE GIVEN APPLICATION.
- 6.) CONNECT THE VERTICAL RESTRAINT CAPACITY, COMBINED RESTRAINT CAPACITY, AND THE HORIZONTAL RESTRAINT CAPACITY POINTS THAT YOU PLOTTED FOR YOUR APPLICATION. THIS WILL PRODUCE THE RESTRAINT CAPACITY ENVELOPE FOR YOUR APPLICATION.
- 7.) FOR THE RESTRAINT TO BE SUITABLE FOR THE APPLICATION, ALL WORST CASE SEISMIC LOAD COMBINATIONS MUST FALL WITHIN THE RESTRAINT ENVELOPE.



**FIGURE 2**  
STEEL ATTACHMENT



**FIGURE 1**  
RESTRAINT CAPACITY ENVELOPE



**FIGURE 3**  
CONCRETE ATTACHMENT

**FMSAA SUBMITTAL DATA**

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