

**DIVISION 13      SPECIAL CONSTRUCTION**

**Section 13 00 00      Special Construction - General**

1. Information relates to DC350 technical requirements regarding, sound/vibration and seismic control.

**Section 13 48 00      Sound Vibration and Seismic Control**

1. The goal of the noise and vibration control shall be to ensure that mechanical equipment and systems operate at the lowest sound and vibration level consistent with the functional requirements of the project.
2. Moving machinery shall be set on foundations/housekeeping pads isolated from the structure to minimize the transmission of noise and vibration.
3. Locate heavy reciprocating machinery on the lowest level of the building. Provide specially designed structural base/housekeeping pad for equipment. Carefully consider the loading of the equipment loading on the foundation and supporting structure.
4. Provide careful attention to the isolation design of equipment and systems.
  1. Flexible pipe and duct connections shall be installed at all pipe and duct connections to vibration isolated equipment (not required if equipment internally isolated). Three (3) roll grooved joints (see Section 22 05 00) may be used in lieu of flexible pipe connectors. See Flexible Connections in Ductwork Accessories section for further information.
  2. All fans and pumps shall be isolated from the building structure.
5. Isolate the following equipment types from the building structure by means of spring isolators and an inertia base: AHU units (not required if internally isolated), base mounted pumps, air compressors over 5 hp, and chillers. Other types of isolation (in accordance with manufacturer's recommendations) may be considered but will be allowed only with written permission from DTIR.
6. Isolate air compressors up to and including 5 hp from the building structure by means of spring isolators.
7. Electrical connections to vibration isolated equipment shall be flexible.
8. Locate isolators for equipment with bases on the sides of the base which are parallel to the equipment shaft.

**END**