

SECTION 22 05 48

MECHANICAL SOUND AND VIBRATION

PART 1 GENERAL

1.01 QUALITY ASSURANCE

A. General acoustic criteria:

1. Noise levels due to equipment and ductwork to permit attaining sound pressure levels in all 8-octave bands in occupied spaces conforming to NC Curves: All spaces NC-35
 - a) Exceptions:
 - i) Spaces within 15-foot radius of supply and return ducts from shafts: NC-40/
 - ii) Lobbies, restrooms, common areas: NC-40/
 - iii) Kitchens: NC-45-50/
 - iv) Mechanical rooms: NC-50-60/

PART 2 PRODUCTS

2.01 PIPING AND EQUIPMENT ISOLATION

A. Acceptable manufacturers:

1. Amber/Booth Co.
2. Korfund
3. Mason Industries, Inc.
4. Metraflex
5. Vibration Mountings and Control Co.
6. Vibrex

B. Double-Deflection Neoprene Mountings (not required when the system is solid-mounted)

C. Spring Isolator Mountings (not required when the system is solid-mounted)

D. Restrained Spring Isolator Mountings (not required when the system is solid-mounted)

E. Vibration Hangars (not required when the system is solid-mounted)

F. Integral Structural Steel Bases (not required when the system is solid-mounted)

G. Steel Cradle Bases (not required when the system is solid-mounted)

H. Concrete Inertia Bases (not required when the system is solid-mounted)

I. Flexible Butyl Hose Pipe Connectors.

J. Flexible Neoprene Sphere Pipe Connectors.

K. Braided Flexible Pipe Connectors.

L. Acoustical Pipe Riser Anchors.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install thrust limits at centerline of thrust, symmetrical on either side of equipment.

B. Flexible connectors shall be installed to isolate vibration and shall not support piping or allow for correction for pipe misalignment.

- C. Install a spool in the place of each flexible connector during fabrication; insulation and final hangar adjustment. Final hangar adjustment shall be completed before installing the flexible connectors

END OF SECTION 22 05 48