

SECTION 13 48 13
Manufactured Sound and Vibration Control Components

PART 1 GENERAL:

1.01 SUMMARY

- A. Kinetics Noise Control, Inc. (Kinetics) Model Wallmat Resilient Partition Isolation Pad is a custom-molded, low-density fiber glass board. Kinetics Model KAI Anchor Isolator Rubber Bushing Assembly is a rubber bushing with a steel spacer and washer through which any one-quarter inch (1/4") diameter anchor is inserted. Installed continuously under base and over top plates wherever isolated partitions shall be constructed, Model Wallmat, with anchors properly installed through Model KAI, shall decouple partitions to reduce flanking of noise at the base and top plates as shown in contract drawings and/or indicated in contract documents.
- B. Related work shall include but not be limited to:
- 1.) Structural Metal Framing: Section 05 10 00.
 - 2.) Non-Structural Metal Framing: Section 09 22 16.13.
 - 3.) Wood Framing: Section 06 11 00.

1.02 SUBMITTALS:

- A. Kinetics product technical data sheet.
- B. Details, installation guidelines, and related information as required for project.

1.03 QUALITY ASSURANCE

The partition isolation pad and anchor isolator must meet the requirements for use in Underwriters Laboratory (UL) 2-hour rated head-of-wall joint system assemblies, HW-D-0031 (single stud) and HW-D-00447 (double stud).

PART 2 PRODUCTS:

2.01 MATERIALS:

- A. Kinetics Model Wallmat:
- 1.) Manufacturer: Kinetics Noise Control, Inc., Dublin, OH.
 - 2.) WEBSITE: www.kineticsnoise.com. Visit Noise Control Building Materials.
 - 3.) Represented by KPA Architectural Products in New England – Contact Keith Peterson (508) 591-7500
 - 4.) Model Wallmat is 1/2-inch (13-mm) thick and designed to carry continuous loads up to 25-psi (17-N/cm²) without excessive creep or pad failure. **Note to Specifier:**

Higher capacity bearing pads are available for loads up to 300-psi (207 N/cm²) if required. Pad deflection shall be 0.175-inches (4-mm) at maximum rated load.

B. Kinetics Model KAI:

- 1.) Manufacturer: Kinetics Noise Control, Inc., Dublin, OH.
- 2.) WEBSITE: www.kineticsnoise.com. Visit Noise Control Building Materials.
- 3.) Represented by KPA Architectural Products in New England – Contact Keith Peterson (508) 591-7500
- 4.) Model KAI isolator bushing shall be a 1/2-inch (13-mm) thick, 60-durometer rubber element that prevents any rigid contact of the anchor to the base and/or top plate of the stud wall. Proper compression of the bushing during installation shall be governed by a carbon steel spacer, inserted through the center-hole of the bushing, and fender washer, positioned on top of the bushing; and, shall allow installation of a 1/4-inch (6-mm) diameter anchor (by others). Base and top plate shall be anchored to the floor/ceiling through Model KAI rubber isolation step bushings spaced at ____” on center. **Note to Specifier:** *Typical anchor spacing is 16” (406-mm) or 24” (610-mm) on center.*
- 5.) Model KAI isolator shall be Model KAI-S (standard steel stud construction) and/or Model KAI-W (wood-framed stud construction).

PART 3 EXECUTION:

3.01 INSTALLATION:

- A. Installation of sound isolation materials specified herein shall be accomplished following Kinetics's and/or the Design Team's written instructions. Installation instructions shall be submitted to the Design Team for approval prior to beginning of work.
- B. Model Wallmat shall not be installed in wet conditions or wherever exposed to moisture. Area shall be flat and smooth, and then clean and free of debris.
- C. The installing contractor shall carefully examine conditions at the job site before commencing specified work. Any surfaces not properly prepared to receive work of this section shall be reported to the Design Team's representative and work shall not commence until conditions are satisfactory.
- D. Install Model Wallmat continuously along base and top plate of partition where identified per construction document plans, and details. Model Wallmat is positioned to decouple the base and top plates from the non-isolated structure.
- E. Frame partition per standard construction practices and building code requirements. Allow for the 1/2-inch (13-mm) thickness, top and bottom (as required), of Model Wallmat during construction of partition.
- F. Drill 3/4-inch (19-mm) diameter hole through stud plate to seat neoprene element at specified anchor spacing. Drill 3/8-inch (10-mm) diameter hole through Model Wallmat in center of cutout in base and top plate. Install Model KAI Anchor Isolator Rubber Bushing Assembly with carbon steel spacer inserted through 3/8-inch (10-mm) diameter hole and bushing resting on Model Wallmat. Position fender washer atop bushing.

- G. Install proper 1/4-inch (6-mm) diameter anchor for substrate and/or building code through carbon steel spacer and tighten against fender washer/spacer to secure base and/or top plate(s) into position.

END OF SECTION