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ROLL-OUT ISOLATION MATERIAL / FIBERGLASS ISOLATOR **RIM SYSTEM/ KIP ISOLATOR** INSTALLATION GUIDELINES FOR WOOD FLOOR

Preparation

- Ensure a strong, rigid subfloor with deflection not exceeding 1/360 of the span, including live and dead loads.
- Subfloor shall be clean, flat, and level. To ensure proper support of the isolated composite across the floor isolation system, please use the following F-Number System values for Structural Slab design:
 - A. Floor Flatness Numbers (F_F):
 - Specified Overall Value = 38
 - Minimum Local Value = 25
 - B. Floor Levelness Numbers (F_L):
 - Specified Overall Value = 33
 - Minimum Local Value = 25
- Fill cracks and remove residue.
- If a waterproof membrane is installed on structural floor, it shall be load bearing.
- Concrete subfloor shall be troweled smooth, free from spills/voids, and be clean and dry.
- Wood subfloors shall be free of weak spots, squeaks, protruding nails, screws, staples, and be clean and dry.

Kinetics Noise Control SRP Perimeter Isolation (SRP)

1. Cut SRP to a width equal to $\frac{1}{4}$ -inch less than planned floor system height.
2. Apply spray adhesive (such as Camie 363 High Strength Fast Tack Spray Adhesive), following manufactures directions, to one side of SRP (alternatively double sided tape may be used).
3. Firmly adhere it to any wall or vertical position (including door frames) surrounding the perimeter of the RIM System/KIP Isolator installation area.
4. Adhere SRP to any protrusions through the floor system including floor drains, columns, pipes, conduit, etc following steps 1-3.

Note: Never attach the perimeter isolation board with nails, screws, or staples.

Option A) KIP Isolator Installation

5A. Locate isolation pads per submittal drawing. Isolator spacing will vary depending on load requirements. It is recommended to snap chalk lines to align isolators. There shall be no more than 4" between the perimeter and the first row of pads.

6A. (OPTIONAL) Apply a dab of construction adhesive to bottom of isolator before setting on the floor.

Note: Top of pad is clearly stamped and must be oriented with "Top" side up to perform properly. No adhesive required on top of isolator.

Option B) RIM System Installation

- 5B. Roll out the RIM System onto the subfloor. Along the perimeter cut or tuck the fiberglass batt so that there is no more than 4” from the perimeter of the installation area and first row of isolators.
- 6B. Maintain equal spacing between isolators from one roll of material to the next as there is between isolators on the same roll. (i.e., 12”, 16”, 24”....)
- 7B. If needed, install a row of isolators to maintain maximum spacing of isolators from penetrations
 - a. Cut away low-density fiberglass
 - b. Install isolators as described in option A.
- 8B. If indicated on submittal drawings, install “High Load” isolators.
 - c. Locate “High Load” isolator location
 - d. Cut away low density fiberglass
 - e. Install isolators as described in option A.
- 9. Select suitable plywood. Chart below may be used for guidance (see **SPECIAL NOTE FOR PLYWOOD**). Lay the first layer of plywood on top of isolators, butting up to, but not compressing against, the perimeter isolation material (SRP). Stagger joints between rows by 4 feet.

RIM/KIP Spacing	Carpet or (5/8” min) Hardwood	All Other Finishes
12” Pad Spacing	(2) Layers of APA Rated Span 32/16, 1/2” Thick, EXP-1, Fir 4-ply plywood	(2) Layers of APA Rated Span 32/16, 3/4” Thick, EXP-1, Fir 4-ply plywood
16” Pad Spacing	(2) Layers of APA Rated Span 32/16, 1/2” Thick, EXP-1, Fir 4-ply plywood	(2) Layers of APA Rated Span 32/16, 3/4” Thick, EXP-1, Fir 4-ply plywood
24” Pad Spacing	(2) Layers of APA Rated Span 32/16, 3/4” Thick, EXP-1, Fir 4-ply plywood	Not Suggested

SPECIAL NOTES FOR PLYWOOD:

- a. **COMPOSITE FLOOR SYSTEM RESTS OVER ISOLATORS THAT WILL DEFLECT UNDER LOAD.**
- b. Finished flooring manufacturer representative and/or installing contractor should be consulted prior to construction of isolated floor buildup for plywood deemed suitable for their finished flooring product. Confirm specific requirements for adhering and screwing layers of plywood together to create floor system on which to install finished flooring.
- c. Kinetics Noise Control, Inc. (Kinetics) encourages selection of Exposure Durability Classification **Exposure 1** or **Exterior** plywood with applicable span rating and grade stress level suitable for use in the construction of an isolated wood floor buildup. Consult local building code and current APA Guidelines for any special construction requirement(s).
- d. In the event the floor system will be required to handle loads imparted by construction lifts, scaffolding, temporary mechanical equipment loads, and temporary construction sequencing, Kinetics encourages using spreader plates to protect the isolation system.
- e. In the event the floor system supports equipment that may be relocated due to model changes or upgrades, such as used on fitness or shop floors, Kinetics encourages using additional layers of plywood to ensure more consistent distribution of the varying weights of equipment.

10. Prior to installing the second layer of plywood, use a trowel to apply liquid wood glue to the entire top face of the first layer of plywood, following the glue instructions for proper setup time, drying time, etc. Other types of adhesives for wood applications may be applied. Be sure to apply sufficient adhesive to create tight bond between layers and to minimize squeaking. Follow manufacturer's instructions.
11. Install second layer of plywood on top of first layer of plywood at a 90° relation, staggering and overlapping joints a minimum of 24 inches top to bottom.

Note: Spacing of the top layer of plywood, edge to edge, should be determined by the finish flooring manufacturer. Example: Hardwood floor companies often recommend a 1/8" space between plywood sheets (top layer).

12. Using 1-1/4" screws for 3/4" plywood and 1" for 1/2" plywood, space approximately 6" on center along the outside of the plywood as well as any penetrations, and a maximum 8" on center each way in the center of the plywood. Start the row of screws no more than 3" away from the edge of the second layer of plywood.
13. Install finish flooring per recommendations of the flooring manufacturer.

Disclaimer

These suggested installation guidelines represent generally accepted procedures for successful installation of Kinetics Noise Control Model RIM Roll-out Isolation Material / KIP Fiberglass isolators for floating wood floor isolation. These suggestions may be followed, modified, or rejected by the owner, engineer, contractor, and/or their respective representative(s) since they, not Kinetics Noise Control, are responsible for planning and executing procedures appropriate to a specific application. Kinetics Noise Control reserves the right to alter these suggestions and encourages contact with the factory or its representatives to review any possible modification to these suggested guidelines prior to commencing installation