**PART 1 – GENERAL**

1.1 SUMMARY

1. Provide all labor, materials, tools, equipment, and perform all procedures necessary for the complete installation of the floating floor system specified herein.

1.2 RELATED SECTIONS

1. Section 03 00 00 – Concrete
Section 03 20 00 – Concrete Reinforcing
Section 03 30 00 – Cast-in-place Concrete
Section 06 16 23 – Subflooring
Section 07 09 00 – Joint Protection
Section 09 60 00 – Flooring
Section 09 62 00 – Specialty Flooring
Section 09 65 00 – Resilient Flooring
Section 13 28 00 – Athletic and Recreational Special Construction

1.3 REFERENCES

1. U.S. Department of Housing and Urban Development (HUD): Guide to Airborne, Impact, and Structure Borne Noise Control in Multifamily Dwellings
2. American Society for Testing and Materials (ASTM)
	1. ASTM E492 – Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine
	2. ASTM D5116 – Standard Guide for small-scale environmental chamber determinations of Organic Emissions for Indoor Material/ Products
	3. ASTM E1007 – Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission through Floor-Ceiling assemblies and Associated support structures
	4. ASTM E2179 – Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission through Concrete Floors
	5. ASTM E90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission loss of Building Partitions and Elements
3. Leadership in Energy and Environmental Design (LEED)
	1. LEED is an internationally recognized green building system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources, and sensitivity to their impacts.

1.4 SYSTEM DESCRIPTION

1. Floating floor system to consist of prefabricated wooden panels with elastomeric isolation pads and fiberglass insulation attached underneath.
2. Perimeter isolation strips shall be used to decouple the floating floor system from any walls, penetrations, columns, pipes, etc.
3. System to be secured in place with minimum 1/2" thick OSB or plywood. Entire system to be covered with 10-mil polyethylene sheeting, overlapped, taped at seams, and extending overtop of perimeter isolation strips.
4. Isolated concrete slab, minimum 3” thickness **(Note to Specifier: typical slab is 4” thick, standard weight, compressive strength of 3000 psi or higher)** properly reinforced and cured. Isolated slab and reinforcement designed by qualified engineer.

1.5 SUBMITTALS

1. Submit under provisions of Section 01 33 00 – Submittal Procedures:
	1. Shop Drawings: Provide shop drawings including product details, floor layout, and cross-sectional views.
	2. Product Data: Acoustic test ratings, manufacturer’s product literature, installation instructions, and submittal drawing(s).
	3. Samples: 4’ x 4’ sample of pre-manufactured panelized floating floor system.

1.6 QUALITY ASSURANCE

1. Manufacturer Qualifications: The manufacturer shall be a firm with a minimum of two years of successful experience in manufacturing of products with similar requirements.
2. Installer Qualifications: The installer shall be a firm with a minimum of two years of successful experience in installation of products with similar requirements.
3. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
	1. Finish areas designated by the architect.
	2. Do not proceed with remaining work until approved by the architect.
	3. Refinish mock-up areas as required to produce acceptable work.

1.7 DELIVERY, STORAGE, AND HANDLING

1. Product and accompanying material to be kept dry and protected from direct contact with any liquids, oils, chemicals, and UV-light during transport and storage.
2. Deliver product in original packaging, unopened, intact, with original labels of the manufacturer.

1.8 PROJECT CONDITIONS

1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's limits.

**PART 2 – PRODUCTS**

2.1 MANUFACTURER

1. REGUPOL America LLC – 11 Ritter Way, Lebanon, Pennsylvania 17042
Toll Free Phone: (800) 537-8737
Phone: (717) 675-2190
Fax: (717) 675-2199
Email: acoustics@regupol.com
Website: www.regupol.com/us/acoustics
2. Substitutions: Not permitted.

2.2 PRODUCT(S)

1. REGUPOL soundpanel manufactured by REGUPOL America LLC.
	1. Properties
		1. OSB Panel, 19/32” (15mm)
		2. Fiberglass Batting, 1” (25mm)
		3. REGUPOL soundpad, 2” (51mm)
		4. Area: 4’ x 4’ (16 sqft / panel)
		5. Thickness: 2-19/32” (66mm)
2. REGUPOL sonus iso-strips recycled rubber perimeter isolation strip
	1. Properties
		1. 100% recycled SBR (styrene-butadiene rubber)
		2. Thickness: 6mm
		3. Strips: 4” x 60” – 1.7 sqft
3. OSB or plywood (minimum 3/4" thick)
4. Polyethylene sheeting 10-mil
5. Concrete and concrete reinforcement per specification\_\_\_\_\_\_\_\_\_\_.
6. Acoustical sealant (for perimeter)

**PART 3 – EXECUTION**

3.1 EXAMINATION

1. Before installation, examine alignment, smoothness, and evenness of substrate. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

1. Clean surfaces thoroughly prior to installation. Installation area shall be free of any protruding pieces, stones, and debris.
2. Ensure installation area meets the job site conditions as recommended by the manufacturer.

3.3 INSTALLATION

1. Complete installation in accordance with the manufacturer’s instructions.

3.4 PROTECTION

1. Protect installed products until completion of project.
2. Touch-up, repair, or replace damaged products before completion.

3.5 CLEANING

1. Upon completion of installation, remove all materials, equipment, and debris from site.
2. Leave work area in condition acceptable by Architect.

END OF SECTION