

## **PART 1 – GENERAL**

### **1.1 GENERAL PROVISIONS**

- A. Attention is directed to the contract and general conditions and all sections within division 1 – General Requirements which are hereby made a part of this Section of the Specifications.
- B. The work of this section includes:
  - 1. Rebound NBA 6.7mm by AMARCO PRODUCTS

### **1.2 DESCRIPTION OF WORK**

A. Work included: provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:

- 1. Resilient tile flooring for commercial traffic.
- 2. Resilient sheet flooring for commercial traffic.
- 3. Substrate preparation.

B. Related work: the following items are not included in this Section and are specified under the designated sections:

C. References (Industry Standards):

- 1. ASTM International (ASTM)
  - a. ASTM C1028: Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
  - b. ASTM E648: Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
  - c. ASTM F710: Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
  - d. ASTM F925: Standard Test Method for Resistance to Chemicals of Resilient Flooring
  - e. ASTM F970: Standard Test Method for Static Load Limit
  - f. ASTM F1303: Standard Specification for Sheet Vinyl Floor Covering with Backing.
  - g. Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring
  - h. ASTM F1514: Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color

i. ASTM F2170: Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes

j. ASTM F2772: Standard Specification for Athletic Performance Properties of Indoor Sports Floor Systems

2. International Organization for Standardization (ISO):

a. ISO 140: Measurement of sound insulation in buildings and of building elements.

3. National Fire Protection Association (NFPA):

a. NFPA 253: Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Source

1.3 SUBMITTALS

A. Product Data: Submit manufacturer's product data, installation instructions and maintenance instructions for each material and accessory proposed for use.

B. Samples: Submit three representative samples of each product specified for verification.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer must be capable of providing technical field service representation.

B. Installer Qualifications: Must be installed by professional flooring installer's experienced at installing commercial resilient floor covering products and have sufficient professional liability insurance coverage (aka Errors and Omissions Insurance) for the project.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in labeled packages. Store and handle in strict compliance with manufacturer's recommendations. Protect from damage due to weather, excessive temperatures, and construction operations.

B. Deliver materials sufficiently in advance of installation to condition materials to the required temperature for 48-hours prior to installation.

1.6 PROJECT CONDITIONS

A. Maintain ambient and concrete temperature and humidity levels as described within the installation instructions.

1.7 WARRANTY



A. Provide manufacturer's standard limited warranty.

## PART 2 – PRODUCTS

### 2.1 ACCEPTABLE MANUFACTURER

A. Rebound-NBA 6.7mm by Amarco Products, 5 Powder Horn Dr. Warren, NJ 07059;  
Toll-Free: (866) 688-6287  
Phone: (732) 302-1122  
Fax: (732) 302-1120

### 2.2 SPECIALTY FLOORING

#### A. Resilient Athletic Flooring:

1	Product name:	Rebound-NBA by Amarco Products
2	Limited wear warranty:	15 years
3	Wear layer:	1.3mm of polyurethane reinforced wear layer with aluminum oxide and a permanent anti-microbial treatment.
4	Composition:	heterogeneous vinyl flooring
5	Color:	standard colors as offered
6	Surface:	UV-cured PUR reinforced tech surface with embedded micronized aluminum oxide
7	Backing:	backing and inner layers are closed-cell vinyl foam, reinforced with non-woven fiberglass for dimensional stability.
8	Roll size:	6'7" x 49'2"
9	Thickness (ASTM F386): + 0.015/-0.005 inches (+ 0.381/- 0.127mm) is required	6.7mm
10	Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required	meets requirements
11	Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1	meets Class 1
12	Slip Resistance (ASTM C1028):	static coefficient of friction, ≥ 0.7
13	Static Load (ASTM F970): ≤ 0.005 inches is required	pass
14	Substrate Preparation:	per ASTM F710 and Rebound-NBA installation instructions

## PART 3 – EXECUTION

### 3.1 GENERAL CONTRACTOR RESPONSIBILITIES

A. Supply a safe, climate controlled building and subfloor that meets the requirements of ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring is required, or as detailed in the Rebound-NBA installation instructions. This includes a structurally sound concrete subfloor, new concrete slabs must conform to ASTM C33/C33M — Standard Specification for Concrete Aggregate.

B. On and below grade concrete subfloors require a confirmed effective vapor retarder with a low permeance ( $\leq 0.1$ ) having a minimum thickness of 10 mils, or meets the requirements of ASTM E1745 — Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs. Confirm it was placed directly underneath the concrete, above the granular fill. If this is not possible then a topically applied moisture mitigation system that conforms to ASTM F3010 – Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings. It must be applied following the manufacturers written instructions. Chemical adhesive removers must not be used.

C. Moisture testing is mandatory, following the protocol of ASTM F2170 – Standard Test Method for Determining Relative Humidity in Concrete Slabs using in situ Probes and must be performed, regardless of grade level or whether the concrete is freshly poured or classified as an older slab. It is the responsibility of the General Contractor/End User to have the concrete subfloor tested for moisture. It is also recommended that an International Concrete Repair Institute (ICRI) Tier 2 Certified Technician performs the moisture testing. The test results must not exceed the maximum acceptable relative humidity for the adhesive. If they do the installation must not proceed until either the subfloor dries to an acceptable level or an effective mitigation system is used that conforms to ASTM F3010 installed following the manufacturers written instructions. The test methodology, results including photographs must be documented and provided to the flooring contractor, general contractor, owner and/or architect.

D. A secure storage and installation area that is maintained permanently or temporarily at the required ambient service temperature and humidity, so the flooring contractor can acclimate the flooring materials is required for at least 48-hours prior to, during and 72-hours after the application of the flooring is required.

E. Areas with direct prolonged exposure to sunlight must be protected with the use of Low E glass doors and windows, facades or use a protective film over the glass.

F. Areas of the flooring that are subject to direct sunlight through doors or windows should have them covered using blinds, curtains, cardboard or similar for the time of the installation and 72-hours after the installation to allow the adhesive to cure.



G. Prevent all traffic for a minimum of 12-hours and rolling loads for 72-hours to allow the adhesive to cure. If required, after 12-hours protect the flooring from damage during construction operations using Masonite, plywood or a similar product, ensuring first that the flooring surface is free of all debris. Lay panels so that the edges form a butt joint and tape the joint to prevent both movement and debris entrapment underneath them. Inspect immediately before covering and after removal for final acceptance.

### 3.2 FLOORING CONTRACTOR RESPONSIBILITIES

A. Provide professional flooring installer's experienced at installing commercial resilient floor coverings with sufficient professional liability insurance coverage (aka Errors and Omissions Insurance) for the project.

B. Provide an effective installation manager, to manage the project, installers and ensure that all of the required procedures are followed as detailed in the Rebound-NBA 6.7mm installation instructions. This includes obtaining the moisture test results (from GC/EU) and making sure they are acceptable prior to installing the flooring.

END OF SECTION