

SECTION 09 65 66 RESILIENT ATHLETIC FLOORING

Grid – builtbygrid.com - Dallas, Texas USA – 469.482.9800

CSI | Grid Versa

PART 1 – GENERAL

1.1 SCOPE INCLUDES

- A. Section Includes: Resilient Flooring, including Sport Foam & Rubber Back Sheet Vinyl.
 - 1. Grid Versa
 - 2. Adhesives
 - 3. Weld Rod
- B. Related Sections: Section(s) related to this section include:
 - 1. Concrete Substrate: Division 3 Concrete Section(s).
 - 2. Plywood Substrate: Division 6.

1.2 REFERENCES

- A. Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.
- B. American Society for Testing and Materials (ASTM):
 - 1. ASTM D3676 Standard Specification for Rubber Cellular Cushion Used for Carpet or Rug Underlay
 - 2. ASTM D2240 Standard Test Method for Rubber Property-Durometer Hardness
 - 3. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers – Tension.
 - 4. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
 - 5. ASTM F137 Test Method for Flexibility of Resilient Flooring Materials.
 - 6. ASTM F710 Practice for Preparing Concrete Floors and Other Monolithic Floors to Receive Resilient Flooring.
 - 7. ASTM F925 Test Method for Resistance to Chemicals of Resilient Flooring.
 - 8. ASTM F2569 Test Method for Force Reduction
 - 9. ASTM D3776 Test Method for weight per unit area

1.3 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide sheet vinyl resilient sport flooring, which has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage, or failure.

1.4 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of Contract and Division 1 Submittal Procedures Section.
- B. LEED: Provide documentation of how the requirements are met for the applicable credits
 - a. Indicate pre-consumer, post-consumer and recycled content
 - b. Recycled content is defined by ISO 14021
- B. Product Data: Submit product data, including manufacturer’s guide specifications product sheet, for specified products.
- C. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors, patterns, and textures.
 - 1. Including a color key code showing roll direction and locations of each type of material
- D. Samples: Submit selection and verification samples for finishes, colors, and textures.
- E. Quality Assurance Submittals: Submit the following:

1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
2. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
3. Manufacturer's Instructions: Manufacturer's installation instructions.
4. Manufacturer's Field Reports: Manufacturer's field reports specified herein.

F. Closeout Submittals: Submit the following:

1. Operation and Maintenance Data: Operation and maintenance data for Installed products in accordance with Division 1 Closeout Submittals (Maintenance Data and Operational Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
2. Warranty: Warranty documents specified herein.

1.5 QUALITY ASSURANCE & WARRANTY

Specifier Note: Coordinate paragraph below with listed obligations for code compliance particular to this sections and project requirements. General statements to comply with code are typically addressed in Division 1.

A. Qualifications:

1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work like that required for this project.
 - a. Certificate: When requested, submit certificate indicating qualification.
2. Manufacturer's Qualifications: Manufacturer capable of providing field service representation during construction and approving application method.

B. Mock-Ups: Install at project site a job mock-up using acceptable products and manufacturer-approved installation methods. Obtain Owner's and Architect's acceptance of finish color, texture and pattern, and workmanship standard. Comply with Division 1 Quality Control (Mock-Up Requirements) Section.

1. Mock-Up Size: 4"x4" sample specific to project requirements

C. Pre-installation Meetings: Conduct pre-installation meeting (in-person or virtual) to verify project requirements, substrate conditions, manufacturer's instructions, and manufacturer's warranty requirements.

1.6 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
- B. Ordering: Comply with Grid's ordering instructions and lead time requirements to avoid construction delays.
- C. Delivery: Deliver materials in Grid's original, unopened, undamaged containers with identification labels intact.
- D. Storage and Protection: Store materials at temperatures between 50 – 85 degrees, "conditioned" humidity levels and protect from exposure to harmful weather conditions as recommended by the manufacturer.

1.7 PROJECT CONDITIONS

- A. Temperature Requirements: Maintain air temperature in spaces where products will be installed for 72-hour period before, full duration during and 72-hours after installation as recommended by Grid.
- B. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings.

1.8 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Grid's warranty is in addition to and not a limitation of other rights the Owner may have under Contract Documents.
 1. Material Limited Warranty Period: 15 years after substantial completion is reached
 2. Installation Limited Warranty Period: 1 year after substantial completion is reached

Specifier Note: Coordinate paragraph above with manufacturer's warranty details

1.9 MAINTENANCE

A. Extra Materials: Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 1 Closeout Submittals (Maintenance Materials) Section.

1. Quantity: Furnish quantity of Grid recycled rubber flooring equal to % required by project documents
2. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage, and protection of extra materials.

Specifier Note: Coordinate paragraph above with specifying percentage, if any required as attic stock

PART 2 – PRODUCTS

2.1 MATERIALS & ATTRIBUTES

- A. Sheet vinyl system engineered with a high-density, closed cell sport backing. A slightly textured embossed surface with a printed wood design that resembles wood strip flooring in size, color and grain appearance. Manufactured with a factory applied UV cured treatment and factory laminated. Combine Grid Versa with inlaid lifting platforms and Training Turf.
- B. Surface: Embossed texture & seamless with a non-porous surface
- C. **Grid Versa.** Dallas, TX 75206 | Phone 469.482.9800 | Email: info@builtbygrid.com
 1. Grid Versa Color Series: Choose from 6 standard color options
 2. Grid Versa Thickness: 5/16"
 3. UV Protection Topcoat: wood design shall be protected by a clear layer of pure PVC (Polyvinyl Chloride) and Top Clean, a factory applied UV cured urethane treatment

Specifier Note: Below Grid Versa for sports surfacing combines high-density, closed cell sport backing fused to a 2mm vinyl wood surface. It is available in 6 colors in a dual-ply factory laminated surface with high slip resistance, durability, cushioned resilience, stain resistance and consistent color.

PERFORMANCE	STANDARD	THICKNESS: 5/16"
Roll Construction		Factory Laminated
Roll Width		78"
Roll Length		80'
Thickness	Total	5/16"
	Wear Layer	2mm
	Sport Backing	5mm
Tolerances		Thickness: +.5mm -.5mm Width: +1/2" - 0
Wear Layer	ASTM F1303	Type 1 - Grade 1
Impact Resistance	EN 1717	Pass
Phthalate Free		Yes
Microbial Assays Test	ASTM G21	Pass - No Growth
Ball Rebound	ASTM F2772	Pass
Allergy & Asthma Friendly	ASP: 05-01/101	Certified Compliant
Coefficient of Friction	ASTM D2047	Dry = 1.10/Wet = 0.95
Fire Rating	ASTM E648 Class 1	Pass
Resistance to Light	ASTM F1515	Pass
Resistance to Chemicals	ASTM D543	No Change
ISO 9001	ISO 9001	Yes
Vertical Deformation	ASTM F2772	Pass
Vertical Rebound	ASTM F2117	99.75%

- D. Weld Rod: Supplied by the indoor resilient athletic surfacing manufacturer. Color to blend with the indoor resilient athletic surfacing color or wood design. All seams shall be welded to create a monolithic and impermeable surface.
- E. Gamelines: As approved by the indoor resilient athletic surfacing manufacturer.
- F. **Grid Poxy Adhesive**
 - 1. Two-component, moisture-cured adhesive. Applied per the manufacturer's installation instructions
 - 2. Rated for installations of up to 99% Relative Humidity (rH) when tested per ASTM F2170
 - 3. Full spread installation method

2.2 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

2.3 RELATED MATERIALS

- A. Related Materials: Refer to other sections listed in Related Sections paragraph herein for related materials.

2.4 SOURCE QUALITY

- A. Source Quality: Obtain recycled rubber resilient flooring materials from a single manufacturer based in the United States.

PART 3 – EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.2 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.3 PREPARATION

- A. Surface Preparation: [Specify applicable product preparation requirements.].

Specifier Note: *Coordinate article below with manufacturer's recommended installation details and requirements.*

3.4 INSTALLATION/APPLICATION/CONSTRUCTION

- A. Sport Flooring Installation: Comply with Grid Installation Manual for procedures and techniques.

B. Finish Color/Textures/Patterns: *[Specify installation finishes coordinated with finishes specified in Part 2 Products.]*

- C. Related Products Installation: Refer to other sections listed in Related Sections paragraph herein for related products installation.

3.5 FIELD QUALITY REQUIREMENTS

Specifier Note: *Edit paragraph below. Establish number and duration of periodic site visits with Owner and manufacturer and specify below. Consult with manufacturer for services required. Coordinate paragraph below with Division 1 Quality Assurance Section and Part 1 Quality Assurance Submittals herein. Delete if manufacturer's field service not required.*

- A. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.

- 1. Site Visits: *[Specify number and duration of periodic site visits.]*

3.6 CLEANING

A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.7 PROTECTION

A. Protection: Protect installed product and finished surfaces from damage during construction.

Specifier Note: Retain article below to suit project requirements. Article may be used to describe specific criteria requirements of similar products or equipment.

3.8 SCHEDULES

Specifier Note: Retain paragraph below to suit project requirements. Reference a schedule or include a schedule as an attachment, which indicates where to locate products and equipment.

A. Schedules: [Specify reference to applicable schedules.]

END OF SECTION