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DIVISION 9 Finishes - SECTION 09 65 00 Resilient Flooring
Nada PVC-free Sheet flooring with a Vulcanized Composition Rubber Base Layer

PART 1.0- GENERAL

1.1 SUMMARY

- A. The work of this section includes:
 - 1. Nada Rx 7mm – PVC-free sheet fusion bonded to a Vulcanized Composition Rubber Base Layer
 - 2. Nada unbacked 2mm – PVC-free sheet intended for flash coving
 - 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 International):
 - 1. See – Part 2.0 PROPRIETARY PRODUCTS below.
- C. Leadership in Energy and Environmental Design – LEED™
 - 1. International Organization for Standardization™ document, ISO 14021 - Provides guidance on the terminology, symbols, testing, and verification methodologies that an organization should use for self-declaration of the environmental aspects of its products and services.

1.3 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide PVC-free sheet fusion bonded to a Vulcanized Composition Rubber Base Layer, 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 the Contract and Division 1 Submittal Procedures Section.
- B. LEED: Provide documentation of how the requirements for credit will be met.
 - 1. List of proposed materials with recycled content. Indicate pre-consumer and post-consumer content.
 - 2. Product data and certification letter indicating percentage of recycled content for both pre-consumer and post-consumer content.
 - 3. Recycled content is defined in accordance with the International Organization for Standardization document, ISO 14021 Environmental labels and declarations.
 - a. Post-consumer material - waste materials diverted from the waste stream after consumer or commercial use.

- b. Pre-consumer material - materials diverted from the waste stream during the manufacturing process. Excluded are regrind, rework, and scrap.
- C. Product Data: Submit product data, including manufacturer's guide specifications product sheet, for specified products.
- D. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors, patterns, and textures.
- E. Samples: Submit selection and verification samples for finishes, colors, and textures.
- F. Quality Assurance Submittals: Submit the following.
 - 1. Certificates: If required, certification of performance characteristics specified in this document shall be provided by the manufacturer.
 - 2. Manufacturer's Instructions: Manufacturer's installation instructions.

Specifier Note: Coordinate paragraph below with Part 3.5 Field Quality Requirements Article herein. Retain or delete as applicable.

- 3. Manufacturer's Field Reports: Manufacturer's field reports specified herein.
 - G. 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

- A. Qualifications:
 - 1. Installer Qualifications: Installer experienced in performing work of this section, who has specialized in installation of work similar to 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.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of Contract and Division 1 Regulatory Requirements Section. Regulatory Requirements: [specify applicable requirements of regulatory agencies].

- B. Mock-Ups: Install at project site a job mock-up using acceptable products and manufacturer-approved installation methods. Obtain owner 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: [specify mock-up size].
 - 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
 - 3. Incorporation: Mock-up may be incorporated into final construction upon owner's approval.
 - C. Pre-installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's instructions, and manufacturer's warranty requirements. Comply with Division 1 Project Management and Coordination (Project Meetings) Section.
 - D. Pre-installation Testing: Conduct pre-installation testing as follows: [specify substrate testing; consult with flooring manufacturer].
 - E. Pre-installation Testing: Conduct pre-installation testing as follows: [specify substrate testing; consult with flooring manufacturer].

1.6 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
- B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

- C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- D. Storage and Protection: Store materials at temperature and humidity conditions recommended by manufacturer and protect from exposure to harmful weather conditions.

1.7 PROJECT CONDITIONS

- A. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during, and after installation as recommended by manufacturer.
- B. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

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. Manufacturer's warranty is in addition to and not a limitation of other rights owner may have under Contract Documents.

Specifier Note: Coordinate paragraph below with manufacturer's warranty requirements.

- 1. Provide manufacturer's warranty commencing on Date of Substantial Completion.

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 resilient flooring units equal to [specify %] of amount installed.
 - 2. Delivery, Storage and Protection: Comply with owner's requirements for delivery, storage, and protection of extra materials.

PART 2.0 – PROPRIETARY PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes performance characteristics, material standards, and descriptions, as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal, and regulatory) and assignment of responsibility for determining "or equal" products.

2.1 Nada Rx 7mm – PVC-free Sheet fusion bonded to a Vulcanized Composition Rubber Base Layer

A. Manufacturer: ECOsurfaces

- 1. 715 Fountain Ave., Lancaster, PA 17601; Telephone: (833) 888-1760, (717) 295-3400; Fax: (717) 295-3414.

2.2 PROPRIETARY PRODUCT(S)

- A. ECOsurfaces Nada PVC-free Sheet flooring
 - 1. Nada Rx 7mm - PVC-free Sheet bonded to a Vulcanized Composition Rubber Base Layer
 - 2. Nada unbacked 2mm – PVC-free sheet intended for flash coving
 - 3. Nada Weld Rod

2.2.1 Nada Rx 7mm PVC-free Sheet Flooring with Vulcanized Composition Rubber Base Layer

PVC-free 2mm sheet surface layer fusion bonded to 5mm of Vulcanized Composition Rubber Base layer		
Roll Dimensions	Manufacturer	7mm thick x 57 inches wide x 30 LF [1.45 M by 9.14 M]
Standard Tolerances	Manufacturer	Width: +3/4" - 0" ; Length: +1% - 0" ; Thickness: ± 0.5 mm
Slip Resistance / Coefficient of Friction	ASTM D2047	≥ 0.6
Chemical Resistance	ASTM F925	Excellent, no change
Abrasion resistance	ASTM D3389 / EN 649	Pass
Resistance to Light	ASTM F1515; ISO 105-B02	Pass
Resistance to Heat	ASTM F-1514	Pass
Flammability – Critical Radiant Flux	ASTM E-648	Class II
Flammability – Pill Test	ASTM D2859	Pass
Recovery After Static Load @250 psi.	ASTM F970	0.005 inches
Recovery After Static Load @500 psi.	ASTM F970 Mod	0.008 inches
Hardness Shore A	ASTM D2240	96
Dynamic Rolling Load	ASTM F2753	No change, no damage
Chair Casters	ASTM D6962 / BS EN 985	No change, no damage
Impact / Energy Abatement	Deltec Field Tester	10.6%
Energy Restitution	Deltec Field Tester	68%
Vertical Deformation	Deltec Field Tester	1.2 mm
VOCs / CA 01350	ASTM D5116	Pass
IIC - Impact Insulation Class	ASTM E492	54
STC - Airborne Sound Transmission	ASTM E90	54
Delta IIC (floor coverings)	ASTM E2179	23
High Frequency Impact Insulation Class HIIC	ASTM E3222	58
Noise Reduction Coefficient (NRC)	ASTM C423	0.1

2.2.2 Nada Weld Rod

Nada Weld Rod	
Material	Thermoplastic
Dimensions	Spool length 164 LF [50 M] by 4mm diameter

2.2.3 Nada unbacked 2mm – PVC-free sheet intended for Flash Coving

Nada unbacked 2mm – PVC-free sheet intended for <i>Flash Coving</i>		
Roll sheet dimensions	Manufacturer	Nominal thickness 2mm x 59 inches wide x 15 LF [1.45 M by 9.14 M]
Standard Tolerances	Manufacturer	Width: +3/4 inch - 0; Length: +1% - 0; thickness + 0.008 inch - 0.004 inch
Static Load Limit	ASTM F970	≤ 0.003" @ 250 lbs.
Hardness Shore A	ASTM D2240	96
Coefficient of Friction	ASTM D2047	≥ 0.6
Chemical Resistance	ASTM F925	Excellent, no change
Abrasion resistance	ASTM D3389 / EN 649	Pass
Critical Radiant Flux	ASTM E648	Class II
Resistance to Light	ASTM F1515 / ISO 105-B02	Pass
Resistance to Heat	ASTM F-1514	Pass
VOCs / CA 01350	ASTM D5116	Pass

2.2.4 Chemical Resistance

Chemical	Test Method	Elapsed Time 1 Hr	Elapsed Time 2 Hrs	Elapsed Time 24 Hrs	Cleaning Solution Used
White Vinegar	ASTM F 925	No Effect	NA	NA	Water
Rubbing Alcohol	ASTM F 925	No Effect	NA	NA	Water
White Mineral Oil	ASTM F 925	No Effect	NA	NA	Water
Sodium Hydroxide Solution	ASTM F 925	No Effect	NA	NA	Water
Sulfuric Acid Solution	ASTM F 925	No Effect	NA	NA	Water
Household Ammonia Solution	ASTM F 925	No Effect	NA	NA	Water
Household Bleach Solution	ASTM F 925	No Effect	NA	NA	Water
Aniline Blue	ASTM F 925	No Effect	NA	No Effect	Water
Betadine Skin Cleanser	ASTM F 925	No Effect	NA	No Effect	Water
Betadine Solution 10%	ASTM F 925	No Effect	NA	No Effect	Water
Iodine Tincture	ASTM F 925	No Effect	NA	No Effect	Water
Iodine Gram Stain	ASTM F 925	No Effect	NA	No Effect	Water
Potassium Permanganate 1.5%	ASTM F 925	No Effect	NA	No Effect	Water
Tincture of Benzoin	ASTM F 925	No Effect	NA	No Effect	Water
Urea Solution	ASTM F 925	No Effect	NA	No Effect	Water
Wright's Blood Stain	ASTM F 925	No Effect	NA	No Effect	Water
Ammonium Hydroxide 10%	ASTM F 925	No Effect	NA	No Effect	Water
Ammonium Hydroxide 30%	ASTM F 925	No Effect	NA	No Effect	Water
Quaternary Ammonium	ASTM F 925	No Effect	NA	No Effect	Water

ASTM F925: Standard Test Method for Resistance to Chemicals of Resilient Flooring

2.3 PRODUCT SUBSTITUTIONS

2.3.1 Substitutions: No substitutions permitted.

2.4 RELATED MATERIALS

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

2.5 SOURCE QUALITY

2.5.1 Source Quality: Obtain PVC-free sheet fusion bonded to a Vulcanized Composition Rubber Base Layer materials from a single manufacturer.

PART 3.0 – EXECUTION

Specifier Note: Revise article below to suit project requirements and specifier's practice.

3.1 MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with manufacturer's product data, technical bulletins, product catalog 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 ERECTION/INSTALLATION/APPLICATION/CONSTRUCTION

A. PVC-free sheet fusion bonded to a Vulcanized Composition Rubber Base Layer: Comply with manufacturer's technical manual for installation and maintenance procedures for flooring product.

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 including number and duration of periodic site visits with owner and manufacturer. Consult with manufacturer for services required. Coordinate paragraph 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: List any manufacturer's field services of product use recommendations and periodic site visit for installation inspection, 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 and legally dispose of construction debris from project site.

3.7 PROTECTION

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

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