

**GUIDE SPECIFICATIONS FOR THE *norament*[®] system, *noraplan*[®] system, and *nora*[®] accessories
BY *nora systems, Inc.***

This document is coordinated with the resilient tile and resilient sheet products in the
nora systems, Inc. product literature, including the Product Catalog,
and is available from *nora systems, Inc.* on www.nora.com/us.

**SECTION 09650
RESILIENT FLOORING**

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 – Specification sections, apply to work of this section.

1.02 SUMMARY

- A. The work of this Section includes:
1. Rubber tile flooring
 2. Rubber sheet flooring
 3. Rubber wall base
 4. Rubber stairtreads and accessories
 5. Responsibilities, preparation/installation
- B. Related Sections: Other specification sections which directly relate to the work of this section include, but are not limited to, the following:
1. Section 03300 - Cast-In-Place Concrete; concrete substrate; slab surface tolerances; vapor retarder for applications on or below grade; 83/90 degree riser and tread edge angle for stairtread and nosings
 2. Section 06100 - Rough Carpentry; plywood substrate; surface tolerances
 3. Section 10270 - Access Flooring; resilient floor covering for access panels
- C. References (Industry Standards)
1. American Society for Testing and Materials (ASTM)
 - a. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine
 - b. ASTM D2240 Standard Test Method for Rubber Property - Durometer Hardness
 - c. ASTM D3389 Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform, Double-Head Abrader)
 - d. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
 - e. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
 - f. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
 - g. ASTM E2180 Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agent(s) in Polymeric or Hydrophobic Materials
 - h. ASTM F150 Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring
 - i. ASTM F511 Standard Test Method for Quality of Cut (Joint Tightness) of Resilient Floor Tile
 - j. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
 - k. ASTM F970 Standard Test Method for Static Load Limit
 - l. ASTM F1344 Standard Specification for Rubber Floor Tile
 - m. ASTM F1482 Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring
 - n. ASTM F1514 Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color
 - o. ASTM E1745 Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs
 - p. ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing
 - q. ASTM F1860 Standard Specification for Rubber Sheet Floor Covering With Backing
 - r. ASTM F1861 Standard Specification for Resilient Wall Base

- s. ASTM F2055 Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method
 - t. ASTM F2169 Standard Specification for Resilient Stair Treads
 - u. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using *in situ* Probes
 - v. ASTM F2420 Standard Test Method for Determining Relative Humidity on the Surface of Concrete Floor Slabs Using Relative Humidity Probe Measurement and Insulated Hood
 - w. ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
2. European Norm (EN)
 - a. EN 1815 Resilient and textile floor coverings. Assessment of static electrical propensity.
 - b. FTM 4046 101 Static Decay
 3. Electro Static Discharge (ESD)
 - a. ESD S7.1 100 Resistive Characterization of Flooring Materials
 - b. ESD STM 97.2 Floor Materials and Footwear – Voltage Measurement on a Person
 4. Static Generation
 - a. AATCC Test Method 134 Electrostatic Propensity of Carpets
 5. National Fire Protection Association (NFPA)
 - a. NFPA 253 Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Source
 - b. NFPA 258 Test Method for Specific Density of Smoke Generated by Solid Materials

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product data sheets, installation guide, and maintenance guide for each material proposed for use (available on www.nora.com/us).
- B. Samples: Submit two 3 inch by 3 inch samples of each product (except *norament*[®] *serra*, *noraplan*[®] *degree* and *stairtreads*), in color specified, for verification. The *degree* product requires two 6 inch by 6 inch samples; *serra* requires two 3 inch by 6 inch samples, and *stairtreads* require two 2 inch wide samples.
- C. MSDS (Material Safety Data Sheets) should be submitted for all adhesives used: *nora*[®] membrane, primer, patch, leveler, heat weld rod, cold weld, liquid wax and cleaning agents. These are available at www.nora.com/us.

1.04 QUALITY ASSURANCE

- A. Manufacturer: Provide resilient flooring manufactured by a firm with a minimum of 10 years' experience with resilient flooring of type's equivalent to those specified. Manufacturers proposed for use, which are not named in this section, shall submit evidence of ability to meet performance requirements specified not less than 10 days prior to bid date.
 1. Color Matching: Provide resilient flooring products, including wall base and accessories, from one manufacturer to ensure color matching.
 2. Manufacturer capable of providing technical training and field service representation.
- B. Installer Qualifications: Installer shall be *nora* approved for the requirements of the project or INSTALL (International Standards & Training Alliance) resilient certified for the requirements of the project.

1.05 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 prior to installation.

1.06 PROJECT CONDITIONS

- A. Maintain temperature and humidity at service levels or 68° F (20° C), ± 5° F (3° C), and 50% RH ± 10% in areas to receive resilient flooring. Specified temperature shall be maintained at least 48 hours before, during, and 72 hours after installation.

1.07 WARRANTY

- A. Provide manufacturer's standard one-year warranty against defects in manufacturing and workmanship of all flooring products. Provide manufacturer's warranty as specified under each product as applicable, including limited wear, defect and conductivity.

1.08 EXTRA MATERIALS

- A. Furnish full size units equal to 2 percent of quantity of resilient flooring installed as extra materials. Properly label and package extra materials. Deliver to owners designated storage area.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. Provide resilient flooring by *nora systems, Inc.*, 9 Northeastern Blvd., Salem, NH 03079; telephone 800-332-NORA, or 603-894-1021; fax 603-894-6615.
- B. The manufacturer shall have the Quality Management System approved by Lloyd's Register Quality Assurance to the Quality Management System Standard ISO 9001:2000.
- C. The manufacturer shall be validated according to the Eco-Management and Audit System (EMAS).
- D. The manufacturer shall offer a construction waste take back program for the purpose of reducing jobsite waste by taking back their uninstalled waste flooring. Details of the *nora* program are available on www.nora.com/us.

Note: For specific product application recommendations please refer to your local *nora* sales representative, or www.nora.com/us.

2.02 RESILIENT TILE FLOORING FOR COMMERCIAL TRAFFIC

- A.
 - 1. Product Name: **norament® grano, Article 1880**
 - 2. Material: **nora** vulcanized rubber compound 926 with abundant natural fillers and environmentally compatible color pigments
 - 3. Surface: Hammered
 - 4. Color: As selected
 - 5. Tile Size: 0.14 inches (3.5mm) overall thickness, 39.53 inches by 39.53 inches (1004mm by 1004mm)
 - 6. Back of Tile: Smooth, double-sanded back
 - 7. Composition: Homogeneous rubber compound 926 with mottled design
 - 8. Limited Wear Warranty: 10 years
 - 9. Hardness: ASTM D2240, Shore type A, required ≥ 75
 - 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
 - 11. Quality of Cut: ASTM F511 ≤ 0.005 "
 - 12. Squareness: ASTM F2055 ≤ 0.010 "
 - 13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
 - 14. PVC Free: Product shall contain no polyvinyl chloride
 - 15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
 - 16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
 - 17. Oil & Grease Resistant: Yes
 - 18. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
 - 19. Halogen Free: Product shall contain no halogens
 - 20. Sound Absorption: 7 dB per ISO 140-8 and 39 IIC per ASTM E2179
 - 21. Burn Resistance: Cigarette and solder burn resistance
 - 22. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
 - 23. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
 - 24. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
 - 25. Asbestos Free: Product shall contain no asbestos

- 26. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 27. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 28. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 29. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
- 30. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

B.

- 1. Product Name: **norament[®] serra, Article 3016**
- 2. Material: nora vulcanized rubber compound 926 with abundant natural fillers and environmentally compatible color pigments
- 3. Surface: Landscape
- 4. Color: As selected
- 5. Tile Size: 0.14 inches (3.5mm) overall thickness, 39.53 inches by 19.76 inches (1004mm by 502mm)
- 6. Back of Tile: Smooth, double-sanded back
- 7. Composition: Homogeneous rubber compound 926 with mottled design
- 8. Limited Wear Warranty: 10 years
- 9. Hardness: ASTM D2240, Shore type A, required ≥ 75
- 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
- 11. Quality of Cut: ASTM F511 ≤ 0.005 "
- 12. Squareness: ASTM F2055 ≤ 0.010 "
- 13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 14. PVC Free: Product shall contain no polyvinyl chloride
- 15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 17. Oil & Grease Resistant: Yes
- 18. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 19. Halogen Free: Product shall contain no halogens
- 20. Sound Absorption: 10 dB per ISO 140-8
- 21. Burn Resistance: Cigarette and solder burn resistance
- 22. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 23. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 24. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 25. Asbestos Free: Product shall contain no asbestos\
- 26. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 27. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 28. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 29. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings.

30. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations

C.

1. Product Name: **norament[®] strada, Article 1870**
2. Material: nora vulcanized rubber compound 926 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Cubic
4. Color: As selected
5. Tile Size: 0.14 inches (3.5mm) overall thickness, 39.53 inches by 39.53 inches (1004mm by 1004mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 926 with mottled design
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 75
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Oil & Grease Resistant: Yes
18. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
19. Halogen Free: Product shall contain no halogens
20. Sound Absorption: 10 dB per ISO 140-8
21. Burn Resistance: Cigarette and solder burn resistance
22. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
23. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
24. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
25. Asbestos Free: Product shall contain no asbestos
26. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
27. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
28. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
29. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
30. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

D.

1. Product Name: **norament® luxor, Article 256**
2. Material: **nora** vulcanized rubber compound 986 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Mat-silk, smooth
4. Color: As selected
5. Tile Size: 0.14 inches (3.5mm) overall thickness, 19.8 inches by 19.8 inches (503mm by 503mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 986 with mottled design
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
18. Halogen Free: Product shall contain no halogens
19. Sound Absorption: 8 dB per ISO 140-8
20. Burn Resistance: Cigarette and solder burn resistance
21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
24. Asbestos Free: Product shall contain no asbestos
25. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
26. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Flooring shall be cleanable using Green Seal certified products.
27. Installation System: Use only nora® pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora® membrane (see Installation Guide for requirements).
 Step 2 – nora® primer (see Installation Guide for requirements).
 Step 3 – nora® leveler (see Installation Guide for requirements).
 Step 4 – nora® patch (see Installation Guide for requirements).
 Step 5 – nora® adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

E.

1. Product Name: **norament® hammered, Article 1910**
2. Material: **nora** vulcanized rubber compound 925 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Hammered
4. Color: As selected
5. Tile Size: 0.11 inches (2.7mm) overall thickness, 19.72 inches by 19.72 inches (501mm by 501mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 925
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified

- 14. PVC Free: Product shall contain no polyvinyl chloride
- 15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 18. Halogen Free: Product shall contain no halogens
- 19. Sound Absorption: 6 dB per ISO 140-8
- 20. Burn Resistance: Cigarette and solder burn resistance
- 21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 24. Asbestos Free: Product shall contain no asbestos
- 25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
- 29. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

F.

- 1. Product Name: **norament[®] round, Article 1902**
- 2. Material: nora vulcanized rubber compound 925 with abundant natural fillers and environmentally compatible color pigments
- 3. Surface: Round
- 4. Color: As selected
- 5. Size: 0.13 inches (3.2 mm) overall thickness, inc 0.02 inches (0.5 mm) raised pattern thickness, 19.72 inches by 19.72 inches (501mm by 501mm)
- 6. Back of Tile: Smooth, double-sanded back.
- 7. Composition: Homogeneous rubber compound 925
- 8. Limited Wear Warranty: 10 years
- 9. Hardness: ASTM D2240, Shore type A, required ≥ 85
- 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
- 11. Quality of Cut: ASTM F511 ≤ 0.005 "
- 12. Squareness: ASTM F2055 ≤ 0.010 "
- 13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 14. PVC Free: Product shall contain no polyvinyl chloride
- 15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 18. Halogen Free: Product shall contain no halogens
- 19. Sound Absorption: 9 dB per ISO 140-8
- 20. Burn Resistance: Cigarette and solder burn resistance
- 21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1

- 23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 24. Asbestos Free: Product shall contain no asbestos
- 25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Flooring shall be cleanable using Green Seal certified products, without the use of factory and/or field-applied coatings.
- 28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
- 29. Installation System: Use only nora® pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora® membrane (see Installation Guide for requirements).
 Step 2 – nora® primer (see Installation Guide for requirements).
 Step 3 – nora® leveler (see Installation Guide for requirements).
 Step 4 – nora® patch (see Installation Guide for requirements).
 Step 5 – nora® adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

G.

- 1. Product Name: **noraplan envirocare™, Article 2462**
- 2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
- 3. Surface: Smooth
- 4. Color: As selected
- 5. Tile Size: 0.08 inches (2mm) thickness, 24 inches by 24 inches (610mm by 610mm)
- 6. Back of Tile: Smooth, double-sanded back
- 7. Composition: Homogeneous rubber compound 913 with a random scattered design
- 8. Limited Wear Warranty: 5 years
- 9. Hardness: ASTM D2240, Shore type A, required ≥ 85
- 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005"
- 11. Quality of Cut: ASTM F511 ≤ 0.005"
- 12. Squareness: ASTM F2055 ≤ 0.010"
- 13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 14. PVC Free: Product shall contain no polyvinyl chloride
- 15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 18. Halogen Free: Product shall contain no halogens
- 19. Sound Absorption: 8 dB per ISO 140-8 and 23 IIC per ASTM E2179
- 20. Burn Resistance: Cigarette and solder burn resistance
- 21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 24. Asbestos Free: Product shall contain no asbestos
- 25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings.

29. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

H.

1. Product Name: **noraplan environcare™, Article 2463**
2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Tile Size: 0.12 inches (3mm) thickness, 24 inches by 24 inches (610mm by 610mm)
6. Back of Tile: Smooth, double-sanded back.
7. Composition: Homogeneous rubber compound 913 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
18. Halogen Free: Product shall contain no halogens
19. Sound Absorption: 10 dB per ISO 140-8 and 42 IIC per ASTM E2179
20. Burn Resistance: Cigarette and solder burn resistance
21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
24. Asbestos Free: Product shall contain no asbestos
25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
29. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

I.

1. Product Name: **noraplan® degree, Article 2532**
2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Tile Size: 0.12 inches (3mm) thickness, 24 inches by 24 inches (610mm by 610mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 913 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
18. Halogen Free: Product shall contain no halogens
19. Sound Absorption: 10 dB per ISO 140-8 and 42 IIC per ASTM E2179
20. Burn Resistance: Cigarette and solder burn resistance
21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
24. Asbestos Free: Product shall contain no asbestos
25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
29. Installation System: Use only nora® pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
Step 1 – nora® membrane (see Installation Guide for requirements).
Step 2 – nora® primer (see Installation Guide for requirements).
Step 3 – nora® leveler (see Installation Guide for requirements).
Step 4 – nora® patch (see Installation Guide for requirements).
Step 5 – nora® adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

J.

1. Product Name: **noraplan® eco, Article 2490**
2. Material: nora vulcanized rubber compound 910 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Tile Size: 0.08 inches (2mm) thickness, 24 inches by 24 inches (610mm by 610mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 910 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85

10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
18. Halogen Free: Product shall contain no halogens
19. Sound Absorption: 8 dB per ISO 140-8
20. Burn Resistance: Cigarette and solder burn resistance
21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
24. Asbestos Free: Product shall contain no asbestos
25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
29. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
Step 1 – nora[®] membrane (see Installation Guide for requirements).
Step 2 – nora[®] primer (see Installation Guide for requirements).
Step 3 – nora[®] leveler (see Installation Guide for requirements).
Step 4 – nora[®] patch (see Installation Guide for requirements).
Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

K.

1. Product Name: **noraplan[®] sentica, Article 2700**
2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Tile Size: 0.08 inches (2mm) thickness, 24 inches by 24 inches (610mm by 610mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 913 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
18. Halogen Free: Product shall contain no halogens

- 19. Sound Absorption: 8 dB per ISO 140-8 and 23 IIC per ASTM E2179
- 20. Burn Resistance: Cigarette and solder burn resistance
- 21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 24. Asbestos Free: Product shall contain no asbestos
- 25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings.
- 29. Installation System: Use only nora® pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora® membrane (see Installation Guide for requirements).
 Step 2 – nora® primer (see Installation Guide for requirements).
 Step 3 – nora® leveler (see Installation Guide for requirements).
 Step 4 – nora® patch (see Installation Guide for requirements).
 Step 5 – nora® adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

L.

- 1. Product Name: **noraplan® sentica, Article 2701**
- 2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
- 3. Surface: Smooth
- 4. Color: As selected
- 5. Tile Size: 0.12 inches (3mm) thickness, 24 inches by 24 inches (610mm by 610mm)
- 6. Back of Tile: Smooth, double-sanded back.
- 7. Composition: Homogeneous rubber compound 913 with a random scattered design
- 8. Limited Wear Warranty: 5 years
- 9. Hardness: ASTM D2240, Shore type A, required ≥ 85
- 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005"
- 11. Quality of Cut: ASTM F511 ≤ 0.005"
- 12. Squareness: ASTM F2055 ≤ 0.010"
- 13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 14. PVC Free: Product shall contain no polyvinyl chloride
- 15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 18. Halogen Free: Product shall contain no halogens
- 19. Sound Absorption: 10 dB per ISO 140-8 and 42 IIC per ASTM E2179
- 20. Burn Resistance: Cigarette and solder burn resistance
- 21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 24. Asbestos Free: Product shall contain no asbestos
- 25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning

- system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
29. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

2.03 RESILIENT SHEET FLOORING FOR COMMERCIAL TRAFFIC

A.

1. Product Name: **noraplan environcare™, Article 1462**
2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.08 inches (2mm) thickness, 49.2 feet by 48 inches (15m by 1.22m)
6. Back of Roll: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 913 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16. Halogen Free: Product shall contain no halogens
17. Sound Absorption: 8 dB per ISO 140-8 and 23 IIC per ASTM E2179
18. Burn Resistance: Cigarette and solder burn resistance
19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
22. Asbestos Free: Product shall contain no asbestos
23. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
27. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).

Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

B.

1. Product Name: **noraplan environcare™, Article 1463**
2. Material: nora vulcanized rubber Compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.12 inches (3mm) thickness, 39.37 feet by 48 inches (12m by 1.22m)
6. Back of Roll: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 913 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16. Halogen Free: Product shall contain no halogens
17. Sound Absorption: 10 dB per ISO 140-8 and 42 IIC per ASTM E2179
18. Burn Resistance: Cigarette and solder burn resistance
19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
22. Asbestos Free: Product shall contain no asbestos
23. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
27. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

C.

1. Product Name: **noraplan[®] degree, Article 1532**
2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.12 inches (3mm) thickness, 39.37 feet by 48 inches (12m by 1.22m)
6. Back of Roll: Smooth, double-sanded back

7.	Composition:	Homogeneous rubber compound 913 with a random scattered design
8.	Limited Wear Warranty:	5 years
9.	Hardness:	ASTM D2240, Shore type A, required ≥ 85
10.	Static Load:	Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11.	ISO 14001:	Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12.	PVC Free:	Product shall contain no polyvinyl chloride
13.	Abrasion Resistance:	Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14.	Slip Resistance:	Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
15.	Bacteria Resistance:	Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16.	Halogen Free:	Product shall contain no halogens
17.	Sound Absorption:	10 dB per ISO 140-8 and 42 IIC per ASTM E2179
18.	Burn Resistance:	Cigarette and solder burn resistance
19.	Heat Resistance:	Avg. Delta E < 8.0 per ASTM F1514
20.	Flammability:	ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
21.	Smoke Density:	ASTM E662, NFPA 258, NBS smoke density, < 450
22.	Asbestos Free:	Product shall contain no asbestos
23.	Static Generation:	< 2000 Volts (2KV) at 20% RH as per AATCC 134
24.	Non Hazardous:	Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
25.	Cleaning:	Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
26.	Shine:	Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
27.	Installation System:	Use only nora [®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project. Step 1 – nora [®] membrane (see Installation Guide for requirements). Step 2 – nora [®] primer (see Installation Guide for requirements). Step 3 – nora [®] leveler (see Installation Guide for requirements). Step 4 – nora [®] patch (see Installation Guide for requirements). Step 5 – nora [®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

D.

1.	Product Name:	noraplan[®] unita, Article 1640, Article 1650
2.	Material:	nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments and decorative granite chips
3.	Surface:	Smooth
4.	Color:	As selected
5.	Roll Size:	0.08 inches (2mm) thickness, 49.2 feet by 48 inches (15m by 1.22m)
6.	Back of Roll:	Smooth, double-sanded back
7.	Composition:	Homogeneous rubber compound 913 with random scattered granite chips
8.	Limited Wear Warranty:	5 years
9.	Hardness:	ASTM D2240, Shore type A, required ≥ 85
10.	Static Load:	Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11.	ISO 14001:	Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12.	PVC Free:	Product shall contain no polyvinyl chloride
13.	Abrasion Resistance:	Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14.	Slip Resistance:	Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
15.	Bacteria Resistance:	Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16.	Halogen Free:	Product shall contain no halogens
17.	Sound Absorption:	6 dB per ISO 140-8

- 18. Burn Resistance: Cigarette and solder burn resistance
- 19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 22. Asbestos Free: Product shall contain no asbestos
- 23. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
- 27. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

E.

- 1. Product Name: **noraplan[®] eco, Article 1490**
- 2. Material: nora vulcanized rubber compound 910 with abundant natural fillers and environmentally compatible color pigments
- 3. Surface: Smooth
- 4. Color: As selected
- 5. Roll Size: 0.08 inches (2mm) thickness, 49.2 feet by 48 inches (15m by 1.22m)
- 6. Back of Roll: Smooth, double-sanded back
- 7. Composition: Homogeneous rubber compound 910 with a random scattered design
- 8. Limited Wear Warranty: 5 years
- 9. Hardness: ASTM D2240, Shore type A, required ≥ 85
- 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005"
- 11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 12. PVC Free: Product shall contain no polyvinyl chloride
- 13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 14. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 16. Halogen Free: Product shall contain no halogens
- 17. Sound Absorption: 8 dB per ISO 140-8
- 18. Burn Resistance: Cigarette and solder burn resistance
- 19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 22. Asbestos Free: Product shall contain no asbestos
- 23. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied

- coatings.
27. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

F.

1. Product Name: **noraplan[®] sentica, Article 1700**
2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.08 inches (2mm) thickness, 49.2 feet by 48 inches (15m by 1.22m)
6. Back of Roll: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 913 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16. Halogen Free: Product shall contain no halogens
17. Sound Absorption: 8 dB per ISO 140-8 and 23 IIC per ASTM E2179
18. Burn Resistance: Cigarette and solder burn resistance
19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
22. Asbestos Free: Product shall contain no asbestos
23. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
27. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

G.

1. Product Name: **noraplan® sentica, Article 1701**
2. Material: **nora** vulcanized rubber Compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.12 inches (3mm) thickness, 39.37 feet by 48 inches (12m by 1.22m)
6. Back of Roll: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 913 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16. Halogen Free: Product shall contain no halogens
17. Sound Absorption: 10 dB per ISO 140-8 and 42 IIC per ASTM E2179
18. Burn Resistance: Cigarette and solder burn resistance
19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
22. Asbestos Free: Product shall contain no asbestos
23. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
27. Installation System: Use only **nora**® pro install system products following the current **nora** Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – **nora**® membrane (see Installation Guide for requirements).
 Step 2 – **nora**® primer (see Installation Guide for requirements).
 Step 3 – **nora**® leveler (see Installation Guide for requirements).
 Step 4 – **nora**® patch (see Installation Guide for requirements).
 Step 5 – **nora**® adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your **nora** representative for specific recommendations.

H.

1. Product Name: **noraplan environcare™ acoustic, Article 1420** (seams shall be welded)
2. Material: **nora** vulcanized rubber compound 915 with abundant natural fillers and environmentally compatible color pigments with rubber foam backing
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.16 inches (4mm) thickness, 0.06 inches (1.6mm) rubber top layer, 0.10 inches (2.4mm) recycled foam backing, 39.3 feet by 48 inches (12m by 1.22m)
6. Back of Roll: Recycled, laminated foam backing
7. Composition: Heterogeneous rubber compound 915 with a random scattered design and rubber foam backing
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85

10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16. Halogen Free: Product shall contain no halogens
17. Sound Absorption: 17 dB per ISO 140-8 and 49 IIC per ASTM E2179
18. Burn Resistance: Cigarette and solder burn resistance
19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
22. Asbestos Free: Product shall contain no asbestos
23. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
27. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

I.

1. Product Name: **noraplan[®] mega acoustic, Article 188** (seams shall be welded)
2. Material: nora vulcanized rubber compound 915 with abundant natural fillers and environmentally compatible color pigments with rubber foam backing
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.16 inches (4mm) thickness, 0.06 inches (1.6mm) rubber top layer, 0.10 inches (2.4mm) recycled foam backing, 39.3 feet by 48 inches (12m by 1.22m)
6. Back of Roll: Recycled laminated foam backing
7. Composition: Heterogeneous rubber compound 915 with a random scattered design and rubber foam backing
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16. Halogen Free: Product shall contain no halogens
17. Sound Absorption: 17 dB per ISO 140-8 and 49 IIC per ASTM E2179
18. Burn Resistance: Cigarette and solder burn resistance

- 19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 22. Asbestos Free: Product shall contain no asbestos
- 23. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
- 27. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

J.

- 1. Product Name: **noraplan[®] sentica acoustic, Article 1705** (seams shall be welded)
- 2. Material: nora vulcanized rubber compound 915 with abundant natural fillers and environmentally compatible color pigments with rubber foam backing
- 3. Surface: Smooth
- 4. Color: As selected
- 5. Roll Size: 0.16 inches (4mm) thickness, 0.06 inches (1.6mm) rubber top layer, 0.10 inches (2.4mm) recycled foam backing, 39.3 feet by 48 inches (12m by 1.22m)
- 6. Back of Roll: Recycled, laminated foam backing
- 7. Composition: Heterogeneous rubber compound 915 with a random scattered design and rubber foam backing
- 8. Limited Wear Warranty: 5 years
- 9. Hardness: ASTM D2240, Shore type A, required ≥ 85
- 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005"
- 11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 12. PVC Free: Product shall contain no polyvinyl chloride
- 13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 14. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 16. Halogen Free: Product shall contain no halogens
- 17. Sound Absorption: 17 dB per ISO 140-8 and 49 IIC per ASTM E2179
- 18. Burn Resistance: Cigarette and solder burn resistance
- 19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 22. Asbestos Free: Product shall contain no asbestos
- 23. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
- 24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.

26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
27. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

2.04 RESILIENT TILE FLOORING FOR SPECIAL FIRE REQUIREMENTS

A.

1. Product Name: **norament[®] 920, Article 354**
2. Material: nora vulcanized rubber compound 920 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Round
4. Color: As selected
5. Tile Size: 0.16 inches (4mm) overall thickness, 0.02 inches (0.5mm) raised pattern thickness, 39.6 inches by 39.6 inches (1006mm by 1006mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 920
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 75
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs., ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
18. Halogen Free: Product shall contain no halogens
19. Sound Absorption: 12 dB per ISO 140-8
20. Burn Resistance: Cigarette and solder burn resistance
21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
22. Flammability: ASTM E84, Class A; and ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
23. Smoke Density: ASTM E84, Class A; and ASTM E662, NFPA 258, NBS smoke density, < 450
24. Asbestos Free: Product shall contain no asbestos
25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Flooring shall be cleanable using Green Seal certified products without the use of factory and/or field-applied coatings.
28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
29. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).

Step 4 – nora[®] patch (see Installation Guide for requirements).

Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

2.05 RESILIENT TILE FLOORING FOR EXTRA HEAVY TRAFFIC, ICE SKATE AND GOLF SPIKE RESISTANT

A.

1. Product Name: **noramenti[®] 992 grano, Article 1955**
2. Material: nora vulcanized rubber compound 992 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Hammered
4. Color: As selected
5. Tile Size: 0.36 inches (9mm) overall thickness, 39.45 inches by 39.45 inches (1002mm by 1002mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Heterogeneous rubber compound 992 with mottled design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 70
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
18. Halogen Free: Product shall contain no halogens
19. Sound Absorption: 15 dB per ISO 140-8
20. Burn Resistance: Cigarette and solder burn resistance
21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
24. Asbestos Free: Product shall contain no asbestos
25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
29. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
Step 1 – nora[®] membrane (see Installation Guide for requirements).
Step 2 – nora[®] primer (see Installation Guide for requirements).
Step 3 – nora[®] leveler (see Installation Guide for requirements).
Step 4 – nora[®] patch (see Installation Guide for requirements).
Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

B.

1. Product Name: **noramenti[®] 992, Article 1955**
2. Material: nora vulcanized rubber compound 992 with abundant natural fillers and environmentally compatible color pigments

3. Surface: Hammered
4. Color: As selected
5. Tile Size: 0.36 inches (9mm) overall thickness, 0.02 inch (0.5mm) raised pattern thickness, 39.45 inches by 39.45 inches (1002mm by 1002mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Heterogeneous rubber compound 992
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 70
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
18. Halogen Free: Product shall contain no halogens
19. Sound Absorption: 15 dB per ISO 140-8
20. Burn Resistance: Cigarette and solder burn resistance
21. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
24. Asbestos Free: Product shall contain no asbestos
25. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
29. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
Step 1 – nora[®] membrane (see Installation Guide for requirements).
Step 2 – nora[®] primer (see Installation Guide for requirements).
Step 3 – nora[®] leveler (see Installation Guide for requirements).
Step 4 – nora[®] patch (see Installation Guide for requirements).
Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

2.06 SPECIAL RESILIENT FLOOR TILE FOR PRE-INSTALLED RAISED ACCESS FLOORING, OR RELEASABLE

A.

1. Product Name: **noramenti[®] ingresso, hammered, Article 1880** (with Chamfered edges, Article 3043)
2. Material: nora vulcanized rubber compound 724 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Hammered
4. Color: As selected
5. Tile Size: 0.14 inches (3.5mm) overall thickness, 39.37 inches by 39.37 inches (1000mm by 1000mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Heterogeneous rubber compound 724 with mottled surface
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore hardness type A ≥ 75

10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. results shall be ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. Standard Required: ASTM F1344, for solid color homogeneous tiles and for through-mottled tiles as applicable
14. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
15. PVC-Free: Product shall contain no poly-vinyl-chloride
16. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss not greater than < 0.6
17. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
18. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
19. Halogen-Free: Product shall contain no halogens
20. Sound Absorption: 8 dB per ISO 140-8
21. Burn Resistance: Cigarette and solder burn resistance
22. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
23. Flammability: ASTM E648; NFPA 253; NBSIR 75 950 result to be not less than > 0.45 watts per square centimeter, Class 1
24. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, less than < 450
25. Asbestos-Free: Product shall contain no asbestos
26. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
27. Non-Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
28. Gloss Value: Flooring shall have a gloss value < 30 units
29. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and or field-applied coatings.
30. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings.
31. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
Step 1 – nora[®] membrane (see Installation Guide for requirements).
Step 2 – nora[®] primer (see Installation Guide for requirements).
Step 3 – nora[®] leveler (see Installation Guide for requirements).
Step 4 – nora[®] patch (see Installation Guide for requirements).
Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

B.

1. Product Name: **norament[®] ingresso landscape, Article 3042** (with Chamfered edges, Article 3043).
2. Material: nora vulcanized rubber compound 724 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Landscape
4. Color: As selected
5. Tile Size: 0.14 inches (3.5mm) overall thickness, 39.37 inches by 19.69 inches (1000mm by 500mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Heterogeneous rubber compound 724 with mottled surface
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore hardness type A ≥ 75
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. results shall be ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. Standard Required: ASTM F1344, for solid color homogeneous tiles and for through-mottled tiles as applicable
14. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
15. PVC-Free: Product shall contain no poly-vinyl-chloride

16. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss not greater than < 0.6
17. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
18. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
19. Halogen-Free: Product shall contain no halogens
20. Sound Absorption: 8 dB per ISO 140-8
21. Burn Resistance: Cigarette and solder burn resistance
22. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
23. Flammability: ASTM E648; NFPA 253; NBSIR 75 950 result to be not less than > 0.45 watts per square centimeter, Class 1
24. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, less than < 450
25. Asbestos-Free: Product shall contain no asbestos
26. Static Generation: < 2000 Volts (2KV) at 20% RH as per AATCC 134
27. Non-Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
28. Gloss Value: Flooring shall have a gloss value < 30 units
29. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and or field-applied coatings.
30. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
31. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

2.07 RESILIENT TILE FLOORING FOR ELECTROSTATIC DISSIPATIVE PROTECTION

A.

1. Product Name: **norament[®] grano ed, Article 1880**
2. Material: nora vulcanized rubber compound 928 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Hammered
4. Color: As selected
5. Tile Size: 0.14 inches (3.5mm) overall thickness, 39.45 inches by 39.45 inches (1002mm by 1002mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 928 with mottled design
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore type A, required ≥ 75
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. Quality of Cut: ASTM F511 ≤ 0.005 "
12. Squareness: ASTM F2055 ≤ 0.010 "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
17. Oil & Grease Resistant: Yes
18. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21

- 19. Halogen Free: Product shall contain no halogens
- 20. Sound Absorption: 10 dB per ISO 140-8
- 21. Burn Resistance: Cigarette and solder burn resistance
- 22. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 23. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 24. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 25. Asbestos Free: Product shall contain no asbestos
- 26. Static Generation: < 20 Volts per ANSI ESD S97.2
- 27. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 28. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 29. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
- 30. Decay Time: < 0.25, FTM 101 C 4046 (sec)
- 31. Conductivity: ESD, ASTM F150, $10^6 < 10^9$
- 32. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

B.

- 1. Product Name: **norament[®] grano ed, Article 1912** (raised access floors)
- 2. Material: nora vulcanized rubber compound 928 with abundant natural fillers and environmentally compatible color pigments
- 3. Surface: Hammered
- 4. Color: As selected
- 5. Tile Size: 0.14 inches (3.5mm) overall thickness, untrimmed 24.6 inches by 24.6 inches (625mm by 625mm)
- 6. Back of Tile: Smooth, double-sanded back
- 7. Composition: Homogeneous rubber compound 928 with mottled design
- 8. Limited Wear Warranty: 10 years
- 9. Hardness: ASTM D2240, Shore type A, required ≥ 75
- 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005"
- 11. Quality of Cut: ASTM F511 ≤ 0.005"
- 12. Squareness: ASTM F2055 ≤ 0.010"
- 13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 14. PVC Free: Product shall contain no polyvinyl chloride
- 15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 17. Oil & Grease Resistant: Yes
- 18. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 19. Halogen Free: Product shall contain no halogens
- 20. Sound Absorption: 8 dB per ISO 140-8
- 21. Burn Resistance: Cigarette and solder burn resistance
- 22. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 23. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 24. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 25. Asbestos Free: Product shall contain no asbestos
- 26. Static Generation: < 20 Volts per ANSI ESD S97.2

- 27. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 28. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 29. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
- 30. Decay Time: < 0.25, FTM 101 C 4046 (sec)
- 31. Conductivity: ESD, ASTM F150, $10^6 < 10^9$
- 32. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

C.

- 1. Product Name: **noraplan environcare™ ed, Article 2390**
- 2. Material: nora vulcanized rubber compound 948 with abundant natural fillers and environmentally compatible color pigments
- 3. Surface: Smooth
- 4. Color: As selected
- 5. Tile Size: 0.08 inches (2mm) thickness, 24 inches by 24 inches (610mm by 610mm)
- 6. Back of Tile: Smooth, sanded back
- 7. Composition: Homogeneous rubber compound 948 with a random scattered design
- 8. Limited Wear Warranty/
 Conductivity Warranty: 5 year wear; 10 year conductivity
- 9. Hardness: ASTM D2240, Shore type A, required ≥ 85
- 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
- 11. Quality of Cut: ASTM F511 ≤ 0.005 "
- 12. Squareness: ASTM F2055 ≤ 0.010 "
- 13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 14. PVC Free: Product shall contain no polyvinyl chloride
- 15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 17. Oil & Grease Resistant: Yes
- 18. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 19. Halogen Free: Product shall contain no halogens
- 20. Sound Absorption: 6 dB per ISO 140-8
- 21. Burn Resistance: Cigarette and solder burn resistance
- 22. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 23. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 24. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 25. Asbestos Free: Product shall contain no asbestos
- 26. Static Generation: < 20 Volts per ANSI ESD S97.2
- 27. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 28. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.

- 29. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
- 30. Decay Time: < 0.25, FTM 101 C 4046 (sec)
- 31. Conductivity: ESD, ASTM F150, $10^6 < 10^9$
- 32. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

D.

- 1. Product Name: **noraplan[®] sentica ed, Article 2702**
- 2. Material: nora vulcanized rubber compound 948 with abundant natural fillers and environmentally compatible color pigments
- 3. Surface: Smooth
- 4. Color: As selected
- 5. Tile Size: 0.08 inches (2mm) thickness, 24 inches by 24 inches (610mm by 610mm)
- 6. Back of Tile: Smooth, sanded back
- 7. Composition: Homogeneous rubber compound 948 with a random scattered design
- 8. Limited Wear Warranty/
 Conductivity Warranty: 5 year wear; 10 year conductivity
- 9. Hardness: ASTM D2240, Shore type A, required ≥ 85
- 10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
- 11. Quality of Cut: ASTM F511 ≤ 0.005 "
- 12. Squareness: ASTM F2055 ≤ 0.010 "
- 13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 14. PVC Free: Product shall contain no polyvinyl chloride
- 15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
- 16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047, ≥ 0.8
- 17. Oil & Grease Resistant: Yes
- 18. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 19. Halogen Free: Product shall contain no halogens
- 20. Sound Absorption: 6 dB per ISO 140-8
- 21. Burn Resistance: Cigarette and solder burn resistance
- 22. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 23. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 24. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 25. Asbestos Free: Product shall contain no asbestos
- 26. Static Generation: < 20 Volts per ANSI ESD S97.2
- 27. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 28. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
- 29. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
- 30. Decay Time: < 0.25, FTM 101 C 4046 (sec)
- 31. Conductivity: ESD, ASTM F150, $10^6 < 10^9$
- 32. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).

Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

2.08 RESILIENT SHEET FLOORING FOR ELECTROSTATIC DISSIPATIVE PROTECTION

A.

1. Product Name: **noraplan environcare™ ed, Article 1390**
2. Material: nora vulcanized rubber compound 948 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.08 inches (2mm) thickness, 49.2 feet by 48 inches (15m by 1.22m)
6. Back of Roll: Smooth, sanded back
7. Composition: Homogeneous rubber compound 948 with a random scattered design
8. Limited Wear Warranty/
Conductivity Warranty: 5 year wear; 10 year conductivity
9. Hardness: ASTM D2240, Shore type A, ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. results shall be ≤ 0.005"
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14. Slip Resistance: Static coefficient of friction (James Test), ASTM D2047, ≥ 0.8
15. Oil & Grease Resistant: Yes
16. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
17. Halogen Free: Product shall contain no halogens
18. Sound Absorption: 6 dB per ISO 140-8
19. Burn Resistance: Cigarette and solder burn resistance
20. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
21. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
22. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
23. Asbestos Free: Product shall contain no asbestos
24. Static Generation: < 20 Volts per ANSI ESD S97.2
25. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic.
26. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
27. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
28. Decay Time: < 0.25, FTM 101 C 4046 (sec)
29. Conductivity: ESD, ASTM F150, 10⁶ < 10⁹
30. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

B.

1. Product Name: **noraplan® sentica ed, Article 1702**
2. Material: **nora** vulcanized rubber compound 948 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.08 inches (2mm) thickness, 49.2 feet by 48 inches (15m by 1.22m)
6. Back of Roll: Smooth, sanded back
7. Composition: Homogeneous rubber compound 948 with a random scattered design
8. Limited Wear Warranty/
Conductivity Warranty: 5 year wear; 10 year conductivity
9. Hardness: ASTM D2240, Shore type A, ≥ 85
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. results shall be ≤ 0.005"
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss ≤ 0.4
14. Slip Resistance: Static coefficient of friction (James Test), ASTM D2047, ≥ 0.8
15. Oil & Grease Resistant: Yes
16. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
17. Halogen Free: Product shall contain no halogens
18. Sound Absorption: 6 dB per ISO 140-8
19. Burn Resistance: Cigarette and solder burn resistance
20. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
21. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
22. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
23. Asbestos Free: Product shall contain no asbestos
24. Static Generation: < 20 Volts per ANSI ESD S97.2
25. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
26. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
27. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
28. Decay Time: < 0.25, FTM 101 C 4046 (sec)
29. Conductivity: ESD, ASTM F150, $10^6 < 10^9$
30. Installation System: Use only **nora**® pro install system products following the current **nora** Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
Step 1 – **nora**® membrane (see Installation Guide for requirements).
Step 2 – **nora**® primer (see Installation Guide for requirements).
Step 3 – **nora**® leveler (see Installation Guide for requirements).
Step 4 – **nora**® patch (see Installation Guide for requirements).
Step 5 – **nora**® adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your **nora** representative for specific recommendations.

2.09 RESILIENT STAIRTREADS (one-piece nosing, tread, and riser)

norament® stairtreads meet the requirements of California's Title 24 for the visually impaired. The contrasting color is not more than one inch from the nosing of the tread, which is in compliance with Title 24

A.

1. Product Name: **norament® grano stairtreads, Articles 479 (4 foot), 468 (5 foot), 469 (6 foot)**
(Visually impaired strips available)
2. Material: **nora** vulcanized rubber compound 926 with abundant natural fillers and environmentally compatible color pigments

3. Surface: Hammered, smooth riser, norament[®] grano design
4. Color: As selected
5. Tread Size: 0.2 inches (5mm) overall thickness, standard widths 4 foot, 5 foot and 6 foot
6. Tread Back: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 926 with mottled design
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore type A, ≥ 75
10. Static Load: Per ASTM F-970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified 7
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss, ≤ 0.60 .
14. Slip Resistance: Static coefficient of friction (James Test), ASTM D2047, ≥ 0.8
15. Oil & Grease Resistant: Yes
16. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
17. Halogen Free: Product shall contain no halogens
18. Burn Resistance: Cigarette and solder burn resistance
19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
22. Asbestos Free: Product shall contain no asbestos
23. Non Hazardous: Stairtreads shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
24. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Flooring shall be cleanable using Green Seal certified products, without the use of factory and/or field-applied coatings.
25. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

B.

1. Product Name: **norament[®] hammered stairtreads, Articles 479 (4 foot), 468 (5 foot), 469 (6 foot)** (Visually impaired strips available)
2. Material: nora vulcanized rubber compound 926 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Hammered, smooth riser
4. Color: As selected
5. Tread Size: 0.2 inches (5mm) overall thickness, standard widths 4 foot, 5 foot and 6 foot
6. Tread Back: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 926
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore type A, ≥ 75
10. Static Load: Per ASTM F-970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified 7
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss, ≤ 0.60 .
14. Slip Resistance: Static coefficient of friction (James Test), ASTM D2047, ≥ 0.8
15. Oil & Grease Resistant: Yes
16. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21

- 17. Halogen Free: Product shall contain no halogens
- 18. Burn Resistance: Cigarette and solder burn resistance
- 19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 22. Asbestos Free: Product shall contain no asbestos
- 23. Non Hazardous: Stairtreads shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 24. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Flooring shall be cleanable using Green Seal certified products, without the use of factory and/or field-applied coatings.
- 25. Installation System: Use only nora® pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora® membrane (see Installation Guide for requirements).
 Step 2 – nora® primer (see Installation Guide for requirements).
 Step 3 – nora® leveler (see Installation Guide for requirements).
 Step 4 – nora® patch (see Installation Guide for requirements).
 Step 5 – nora® adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

C.

- 1. Product Name: **norament® round stairtreads, Articles 465 (4 foot), 466 (5 foot), 467 (6 foot)**
(Visually impaired strips available)
- 2. Material: nora vulcanized rubber compound 926 with abundant natural fillers and environmentally compatible color pigments
- 3. Surface: Round, raised round pastilles, smooth riser
- 4. Color: As selected
- 5. Tread Size: 0.18 inches (4.5mm) overall thickness, 0.02 inches (0.5mm) raised pattern thickness, standard widths 4 foot, 5 foot and 6 foot
- 6. Tread Back: Smooth, double-sanded back
- 7. Composition: Homogeneous rubber compound 926
- 8. Limited Wear Warranty: 10 years
- 9. Hardness: ASTM D2240, Shore type A, ≥ 75
- 10. Static Load: Per ASTM F-970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005"
- 11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified 7
- 12. PVC Free: Product shall contain no polyvinyl chloride
- 13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss, ≤ 0.4
- 14. Slip Resistance: Static coefficient of friction (James Test), ASTM D2047, ≥ 0.8
- 15. Oil & Grease Resistant: Yes
- 16. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
- 17. Halogen Free: Product shall contain no halogens
- 18. Burn Resistance: Cigarette and solder burn resistance
- 19. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
- 20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
- 21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
- 22. Asbestos Free: Product shall contain no asbestos
- 23. Non Hazardous: Stairtreads shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 24. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Flooring shall be cleanable using Green Seal certified products, without the use of factory and/or field-applied coatings.
- 25. Installation System: Use only nora® pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora® membrane (see Installation Guide for requirements).

Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

D.

1. Product Name: **noramenti[®] 920 stairtreads, Article 465** (Visually impaired strips available)
2. Material: nora vulcanized rubber compound 920 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Round, raised round pastilles, smooth riser
4. Color: As selected
5. Tread Size: 0.18 inches (4.5mm) overall thickness, 0.02 inches (0.5mm) raised pattern thickness, standard width 4 foot
6. Tread Back: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 920
8. Limited Wear Warranty: 10 years
9. Hardness: ASTM D2240, Shore type A, ≥ 75
10. Static Load: Per ASTM F-970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified 7
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss, ≤ 0.4
14. Slip Resistance: Static coefficient of friction (James Test), ASTM D2047, ≥ 0.8
15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16. Halogen Free: Product shall contain no halogens
17. Burn Resistance: Cigarette and solder burn resistance
18. Heat Resistance: Avg. Delta E < 8.0 per ASTM F1514
19. Flammability: ASTM E84, Class A; and ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
20. Smoke Density: ASTM E84, Class A; and ASTM E662, NFPA 258, NBS smoke density, < 450
21. Asbestos Free: Product shall contain no asbestos
22. Non Hazardous: Stairtreads shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
23. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Flooring shall be cleanable using Green Seal certified products, without the use of factory and/or field-applied coatings.
24. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora[®] membrane (see Installation Guide for requirements).
 Step 2 – nora[®] primer (see Installation Guide for requirements).
 Step 3 – nora[®] leveler (see Installation Guide for requirements).
 Step 4 – nora[®] patch (see Installation Guide for requirements).
 Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

2.10 RUBBER STAIR ACCESSORIES

A.

1. Product Name: **nora[®] T5044 A/C stair nosing, Article 802**, for flooring 0.8 inches (2mm) to 0.11 inches (2.7mm)
nora[®] T5044 E/F stair nosing, Article 802, for flooring 0.14 inches (3.5mm) to 0.16 inches (4mm)
nora[®] T 5049 A/C stair nosing, Article 805, for flooring 0.8 inches (2mm) to 0.11 inches (2.7mm)

- nora® T 5049 E/F stair nosing, Article 805**, for flooring 0.14 inches (3.5mm) to 0.16 inches (4mm)
2. Material: nora rubber compound 961 with abundant natural fillers and environmentally compatible color pigments
 3. Color: As selected
 4. Nosing Back: Smooth, double-sanded back
 5. Composition: Homogeneous rubber compound 961
 6. Limited Wear Warranty: 5 years
 7. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs. ≤ 0.005 "
 8. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
 9. PVC Free: Product shall contain no polyvinyl chloride
 10. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss, ≤ 0.4
 11. Slip Resistance: Static coefficient of friction (James Test), ASTM D2047, ≥ 0.8
 12. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
 13. Halogen Free: Product shall contain no halogens
 14. Burn Resistance: Cigarette and solder burn resistance
 15. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
 16. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
 17. Asbestos Free: Product shall contain no asbestos
 18. Non Hazardous: Nosings shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
 19. Cleaning: Nosing surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Flooring shall be cleanable using Green Seal certified products, without the use of factory and/or field-applied coatings.
 20. Installation System: Use only nora® pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora® membrane (see Installation Guide for requirements).
 Step 2 – nora® primer (see Installation Guide for requirements).
 Step 3 – nora® leveler (see Installation Guide for requirements).
 Step 4 – nora® patch (see Installation Guide for requirements).
 Step 5 – nora® adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

B.

- nora® banister trim, Article 744 (A 5013 U)**
1. Product Name: nora rubber compound 959 ASTM F1861 Type TP - rubber, thermoplastic. With abundant natural fillers and environmentally compatible color pigments
 2. Material: nora rubber compound 959 ASTM F1861 Type TP - rubber, thermoplastic. With abundant natural fillers and environmentally compatible color pigments
 3. Color: As selected
 4. Trim Size: 8.2 foot (2.5m) length
 5. Limited Wear Warranty: 5 years
 6. Composition: Homogeneous rubber compound 959
 7. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
 8. PVC Free: Product shall contain no polyvinyl chloride
 9. Halogen Free: Product shall contain no halogens
 10. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
 11. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
 12. Non Hazardous: Trim shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
 13. Installation System: Use only nora® pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 Step 1 – nora® membrane (see Installation Guide for requirements).
 Step 2 – nora® primer (see Installation Guide for requirements).
 Step 3 – nora® leveler (see Installation Guide for requirements).
 Step 4 – nora® patch (see Installation Guide for requirements).

Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

2.11 RESILIENT WALL BASE / SANITARY BASE / ACCESSORIES

A.

1. Product Name: **nora[®] wall base (S 1028 B), Article 820**
2. Material: nora rubber compound 999, ASTM F1861, Type TP - rubber, thermoplastic. With abundant natural fillers and environmentally compatible color pigments
3. Color: As selected
4. Size: 0.125 inches (3.175mm) thick, 4 inches (102mm) high, 120 feet (36.5m) rolls
5. Composition: Homogeneous rubber compound 999
6. Limited Wear Warranty: 5 years
7. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
8. Halogen-Free: Product shall contain no halogens
9. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
Step 1 – nora[®] membrane (see Installation Guide for requirements).
Step 2 – nora[®] primer (see Installation Guide for requirements).
Step 3 – nora[®] leveler (see Installation Guide for requirements).
Step 4 – nora[®] patch (see Installation Guide for requirements).
Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

B.

1. Product Name: **nora[®] sanitary wall base, Article 817 (S 3019 D)**
2. Material: nora rubber compound 959, ASTM F 1861, Type TP - rubber, thermoplastic. With abundant natural fillers and environmentally compatible color pigments
3. Color: As selected
4. Size: Top leg 0.12 Inches (3mm) thick, 5.98 inches (152mm) high; connection dimension bottom leg 0.13 inches (3.2mm) thick, 2.0 inches (50mm) long. Available in 32.8 foot (10m) length
5. Composition: Homogeneous rubber compound 959
6. Limited Wear Warranty: 5 years
7. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
8. PVC Free: Product shall contain no polyvinyl chloride
9. Halogen Free: Product shall contain no halogens
10. Flammability: ASTM E648; NFPA 253; NBSIR 75 950, ≥ 0.45 watts per square centimeter, Class 1
11. Smoke Density: ASTM E662, NFPA 258, NBS smoke density, < 450
12. Non Hazardous: Base shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
13. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
Step 1 – nora[®] membrane (see Installation Guide for requirements).
Step 2 – nora[®] primer (see Installation Guide for requirements).
Step 3 – nora[®] leveler (see Installation Guide for requirements).
Step 4 – nora[®] patch (see Installation Guide for requirements).
Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

C.

1. Product Name: **nora[®] cove stick, Article 7731**
2. Material: nora rubber compound 959, ASTM F 1861 Type TP - rubber, thermoplastic. With abundant natural fillers and environmentally compatible color pigments
3. Size: 32.8 foot (10m) length
4. Composition: Homogeneous rubber compound 959

- 5. Limited Wear Warranty: 5 years
- 6. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
- 7. PVC Free: Product shall contain no polyvinyl chloride
- 8. Halogen Free: Product shall contain no halogens
- 9. Non Hazardous: Cove shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
- 10. Installation System: Use only nora[®] pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
 - Step 1 – nora[®] membrane (see Installation Guide for requirements).
 - Step 2 – nora[®] primer (see Installation Guide for requirements).
 - Step 3 – nora[®] leveler (see Installation Guide for requirements).
 - Step 4 – nora[®] patch (see Installation Guide for requirements).
 - Step 5 – nora[®] adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora representative for specific recommendations.

PART 3 – RESPONSIBILITIES

3.01 GENERAL CONTRACTOR RESPONSIBILITIES

NOTE: In the absence of a general contractor, these responsibilities defer to the end user.

- A. A building or flooring area that is water tight and fully enclosed from the elements, including roof, windows or facades and doors, that is ready for the flooring installation is required.
- B.
 - 1. A concrete substrate that fully conforms to the requirements of ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring is required, or as detailed in the nora Installation Guide.
 - 2. A wooden substrate that is not directly in contact with concrete or soil subfloors on or below grade, even if built on sleepers is required. All suspended wood floors shall have an adequate underfloor ventilation system, and a permanently effective vapor retarder shall be placed on the ground beneath the air space.
- C. A concrete substrate that shall be structurally sound, that is finished shrinking, cracking, curling or moving in any way is required.
- D. For all concrete substrates on or below grade, a permanent effective vapor retarder with a low permeance (less than 0.1) having a minimum thickness of 10 mils, or meets the requirements of the latest edition of ASTM E1745 (Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs) shall be placed directly underneath the concrete above the granular fill, and shall be installed as per the manufacturer's written instructions. A letter shall be provided to the end user confirming the correct products have been used and that it is fully warranted, alternatively the nora membrane shall be used as described in 3.01 H.
- E. A clean non-burnished concrete surface free from any paint, wax, oil, grease, and film forming curing compounds, silicate penetrating curing compounds, sealing, hardening or parting compounds is required. The surface should not have any alkaline salts, laitance, mold, mildew, residual adhesive, chemical adhesive removers or anything that may prevent the appropriate pro install products bonding to it. If not then the general contractor should provide the mechanical means to remove them. This could be dustless diamond grinding, bead-blast or similar with a suitable vacuum attachment.

Warning:

Do not sand, dry sweep, dry scrape, drill, saw, bead-blast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphalt "cutback" adhesive, or other adhesive. These products may contain asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content.

Various local, state and federal government agencies have regulations governing the removal of in-place asbestos-containing material. If you contemplate the removal of a resilient floor covering structure that contains (or is presumed to contain) asbestos, you must review and comply with all applicable local, state and federal regulations.

The RFCI (Resilient Floor Covering Institute) "Recommended Work Practices for Removal of Resilient Floor Coverings" are a defined set of instructions addressed to the task of removing all resilient floor-covering structures including adhesive and adhesive residues. For more information contact RFCI directly at www.rfci.com or 706-882-3833.

- F. Valid tests and acceptable test results shall be provided to the end user and flooring contractor, including documenting with photographs, the location of all tests, recorded moisture content and temperature of the concrete subfloor prior to flooring installation. Testing shall be confirmed to have been performed at the correct, controlled ambient service temperature and humidity following the protocol of ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes, using a Wagner Rapid RH probes only. When tested at the correct service temperature and ambient humidity the maximum allowable shall be 85%RH for the correct **nora**[®] 385, 485, 585 or 685 adhesive or 75%RH for **nora**[®] dryfix, stepfix or Quickfix systems.
- G. If it is not possible to drill into the concrete for any reason as detailed in ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes, please contact the **nora** Technical Department for other recommendations.
- H. Only if it is not possible to provide a concrete substrate with acceptable moisture levels, or that (when appropriate) have a confirmed effective vapor retarder, then **nora** membrane shall be used as described in 3.02 G. Please note that all additional costs associated with this concrete condition are the responsibility of the general contractor / end user, including any additional requirements for concrete preparation, priming, leveler, patching or labor.
- I. A secure storage area that is maintained permanently or temporarily at ambient service temperature and humidity (except walk in freezers or similar), or 68°F ± 5° F and 50% ± 10% relative humidity, for at least 48 hours prior to and during the application of the flooring, so the flooring contractor can acclimate the flooring materials is required.
- J. An installation area that is weather tight and maintained permanently or temporarily at ambient service temperature and humidity (except walk in freezers or similar), or 68°F ± 5° F and 50% ± 10% relative humidity, for at least 48 hours prior to, during and 72 hours after the application of the flooring is required.
- K. Areas with direct prolonged exposure to sunlight shall be protected with the use of Low E glass doors and windows or facades.
- L. Areas of the flooring that are subject to direct sunlight through doors or windows shall 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. Note these areas shall be installed using wet adhesives only.
- M. Prevent all traffic for a minimum of 12 hours and heavy rolling loads for 72 hours to allow the adhesive to set up. 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.
- N. If required, clean the flooring no sooner than 72 hours after the installation, unless pre-agreed with a **nora** representative. Clean the flooring only using the method detailed in the appropriate **nora** Maintenance Guide.

3.02 FLOORING CONTRACTOR RESPONSIBILITIES

- A. Installer shall be trained and have at least one of the following:
 - Approved by **nora systems, Inc.** for all of the requirements of the project.
 - INSTALL (International Standards & Training Alliance) certified for the requirements of the project.
- B. An effective project manager, to manage the installers, and ensure that all of the required procedures are followed, documented and that the **nora** Installation Guide is followed.
- C. Acclimate the flooring in the secure storage area provided by the general contractor that is maintained permanently or temporarily at ambient service temperature and humidity (except walk in freezers or similar), or 68°F ± 5° F and 50% relative humidity, for at least 48 hours prior to application.
- D. For wooden subfloors American Plywood Association (APA) underlayment grade plywood shall be double sheeted at a suitable thickness (minimum total wood thickness of 1 1/4 inch) to overlay the wooden substrate and installed as detailed in ASTM F1482 - Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring.

Please note as plywood will expand and contract due to changes in moisture content and temperature, **nora systems, Inc.** cannot accept any liability of the plywood joints telegraphing through the finished floor.

- E. Perform mat bond tests in each major area (1 per ~1,000 sq. ft.) This shall consist of the proposed subfloor preparation, mitigation and leveling or smoothing products. A detailed method statement is available in the **nora** Installation Guide available on www.nora.com/us. Do not proceed with the installation until all the results of the bond test are acceptable.

Warning:

Do not sand, dry sweep, dry scrape, drill, saw, bead-blast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphalt "cutback" adhesive, or other adhesive. These products may contain asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content.

Various local, state and federal government agencies have regulations governing the removal of in-place asbestos-containing material. If you contemplate the removal of a resilient floor covering structure that contains (or is presumed to contain) asbestos, you must review and comply with all applicable local, state and federal regulations.

The RFCI (Resilient Floor Covering Institute) "Recommended Work Practices for Removal of Resilient Floor Coverings" are a defined set of instructions addressed to the task of removing all resilient floor-covering structures including adhesive and adhesive residues. For more information contact RFCI directly at www.rfci.com or 706-882-3833.

- F. Clean out and fill or repair any dormant saw cuts and cracks following the appropriate directions of the membrane, leveler or patch sections within the installation guide. For any expansion (moving) joints, use an industry standard expansion joint assembly.
- G. When required, use the **nora** membrane following the directions and requirements detailed within the **nora** Installation Guide. Provide written confirmation and photographs to the general contractor or end user that the subfloor was prepared correctly prior to the application of the membrane, and that the membrane was applied correctly (without pin-holes) including confirmation of the gallons used and total square feet installed.
- H. If required, use **nora** leveler following the Installation Guide. They shall be free of dust, solvents, paint, wax, varnish, oil, grease, asphalt, old adhesives, and other extraneous materials that may interfere with the bond. These shall be completely removed by mechanical means only. Dustless diamond grinding is the preferred method to remove contaminants and bond breakers as it also helps to level the concrete.
- I. Prime the subfloor prior to using the leveler. Note: an 1/8th inch minimum thickness is required for the leveler to be considered porous as required when using **nora** 485 or 685 acrylic adhesives.
- J. If **nora** leveler or patch is used, provide written confirmation and a workmanship warranty that (if required) the area was primed correctly, the leveler had been mixed and applied correctly to the required smoothness and or thickness of the general contractor / end user, or **nora** Installation Guide.
- K. Vacuum floors immediately prior to installing the flooring to remove all loose particles. If required, only use water based sweeping compounds. Do not use any wax or oil based compounds that leave behind a residue that may interfere with the adhesive bond.
- L. Install resilient flooring, including but not limited to the following, in accordance with the **nora** Installation Guide.
1. Do not mix manufacturing batches of a color within the same area.
 2. Do not install resilient flooring over building expansion joints.
 3. Do not install defective or damaged resilient flooring.
 4. Layout resilient flooring to provide ~equal size at perimeter. Adjust layout as necessary to reduce the amount of resilient flooring which is cut to less than half full width.
 5. Lay resilient flooring with arrows in the same direction (excluding borders).
 6. Install resilient flooring without voids at seams. Lay seams together without stress.
 7. Cut/scribe resilient flooring neatly at perimeter and obstructions.
 8. Extend resilient flooring into reveals, closets, and similar openings.
 9. Remove excess adhesive immediately.
 10. Install reducer strips at exposed edges.
- M. Install **nora** wall base in accordance with manufacturer's installation guide. Install in longest practical lengths.

- N. Install resilient stairtreads and accessories in accordance with the **nora** Installation Guide.
- O. **noraplan** SEAMLESS FLOORING INSTALLATION (when required). Rout seams and weld together with coordinated colored heat welding rod or with coordinated colored cold weld compound in accordance with the **nora** Installation Guide.
- P. **norament** SEAMLESS FLOORING INSTALLATION (when required). Rout seams and weld together with coordinated colored cold weld compound in accordance with the **nora** Installation Guide.
- Q. FLASH COVING OF SHEET GOOD (when required). Extend flooring up the wall using the boot flash coving method, to a height as required. Provide cove stick and suitable capping strip. All internal and external vertical seams, or as specified shall be cold welded with coordinated colored cold weld. Note: Do not heat weld the vertical seams.
- R. SANITARY BASE (when required). Shall be installed using **nora**® **basefix** and all following the **nora** Installation Guide. All vertical external corners shall be cold welded. If specified, all other seams between the sanitary base, and between the sanitary base and flooring shall be cold welded together with coordinated colored cold weld compound in accordance with the **nora** Installation Guide. Note: Do not heat weld these seams.
- S. Touch-up and repair any minor damage to eliminate all evidence of repair. Remove and replace work which cannot be satisfactorily repaired.

3.03 MANUFACTURER RESPONSIBILITIES

- A. Provide a one-year warranty against defects in manufacturing of all products supplied. Provide limited wear warranty for the flooring supplied, as detailed per product. Provide a **nora** pro install System warranty upon receipt of the required test results and documentation. Contact the **nora** Technical Department for details.
- B. Adherence to the Quality Management System approved by Lloyd's Register Quality Assurance to the Quality Management System Standard ISO 9001:2000.
- C. Provide flooring that shall contain no polyvinyl chloride or plasticizers.
- D. ISO 14001 Environmental Management Systems certification.
- E. Provide training for the installers, at a **nora** Technical Academy, contact the **nora** Technical Department for details and availability.
- F. Provide an effective surface moisture mitigation membrane that has three (3) levels of protection (depending on %RH moisture content of the concrete), and that is in compliance (46 grams/liter) with SCAQMD Rule 1113, < 100 grams/liter.
- G. Provide a water based primer, that is suitable for both porous and non-porous substrates including **nora** membrane, and that is in compliance (92 grams/liter) with SCAQMD Rule 1113, < 100 grams/liter.
- H. Provide a self-smoothing Portland cement based leveler, that can pumped or barrel mixed with water and be used at a minimum of 1/8th inch that is in compliance (0 grams/liter) with SCAQMD Rule 1168, < 50 grams/liter.
- I. Provide a Portland cement based patching compound that can be used from a feather edge to 1 inch in one application and is in compliance (0 grams/liter) with SCAQMD Rule 1168, < 50 grams/liter.
- J. Provide flooring that shall contain no halogens.
- K. Provide flooring surfaces that shall be easily cleaned and not require coatings and stripping, or use chemicals that may be hazardous to human health.
- L. Provide flooring that shall be free of anything known to be teratogenic, mutagenic or carcinogenic.
- M. Provide adhesives that are in compliance (0 grams/liter) with SCAQMD Rule 1168, < 60 grams/liter Standard for Rubber Floor Adhesives.

END OF SECTION

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04/12

RESILIENT FLOORING
09650-40