PART 1 - GENERAL

1.1 GENERAL PROVISIONS

A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
   1. Resilient tile flooring for commercial traffic.
   2. Resilient plank flooring for commercial traffic with pre-applied adhesive.
   3. Resilient sheet flooring for commercial traffic.
   4. Resilient sheet flooring for commercial traffic with pre-applied adhesive.
   5. Resilient tile flooring for special fire requirements.
   6. Resilient tile flooring for extra heavy traffic, ice skate, and golf spike resistant.
   7. Resilient tile flooring for pre-installed raised access flooring, or releasable application.
   8. Resilient tile flooring for electrostatic dissipative protection.
   9. Resilient sheet flooring for electrostatic dissipative protection.
   10. Resilient stair treads (one-piece nosing, tread and riser).
   11. Resilient stair accessories.
   12. Resilient wall base, sanitary base, and accessories.

B. Related Work: The following items are not included in this Section and are specified under the designated Sections:
   1. Section 033000 CAST-IN-PLACE CONCRETE for concrete substrate; slab surface tolerances; vapor retarder for applications on or below grade; requirement for 83/90 degree riser and tread edge angle for stair tread and nosings.
   2. Section 055100 METAL STAIRS AND RAILINGS; requirement for 83/90 degree riser and tread edge angle for stair tread and nosings.
   3. Section 061000 ROUGH CARPENTRY for plywood substrate and surface tolerances.
   4. Section 096900 ACCESS FLOORING for resilient floor covering for access panels.

C. References (Industry Standards):
   1. American Association of Textile Chemists and Colorists (AATCC):
      a. AATCC 134 Electrostatic Propensity of Carpets
      a. ANSI ESD S97.2 Floor Materials and Footwear – Voltage Measurement on a Person
   3. ASTM International (ASTM):
      b. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
      c. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine
d. ASTM D2240  Standard Test Method for Rubber Property – Durometer Hardness

e. ASTM D3389  Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform, Double Head Abrader)

f. ASTM D6499  Standard Test Method for the Immunological Measurement of Antigenic Protein in Natural Rubber and its Products

g. ASTM E84  Standard Test Method for Surface Burning Characteristics of Building Materials


i. ASTM E662  Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

j. ASTM E1745  Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs

k. ASTM E2179  Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors

l. ASTM E2180  Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agent(s) in Polymeric or Hydrophobic Materials

m. ASTM F150  Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring

n. ASTM F155  Method of Test for Temper of Strip and Sheet Metals for Electronic Devices

o. ASTM F386  Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces

p. ASTM F710  Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

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

r. ASTM F970  Standard Test Method for Static Load Limit

s. ASTM F1344  Standard Specification for Rubber Floor Tile

t. ASTM F1482  Standard Practice for Installation and Preparation of Panel Type Underlayment to Receive Resilient Flooring


w. ASTM F1859  Standard Specification for Rubber Sheet Floor Covering Without Backing

x. ASTM F1860  Standard Specification for Rubber Sheet Floor Covering With Backing

y. ASTM F1861  Standard Specification for Resilient Wall Base

z. ASTM F2055  Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method

aa. ASTM F2169  Standard Specification for Resilient Stair Treads

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

c. ASTM F2199  Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat

d. ASTM F3010  Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings

e. ASTM G21  Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

4. European Norm (FTM):
a. FTM 101 C 4046  Static Decay

5. International Organization for Standardization (ISO):
a. ISO 140  Measurement of sound insulation in buildings and of building elements


b. NFPA 258  Test Method for Specific Density of Smoke Generated by Solid Materials
1.3 SUBMITTALS

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

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

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Provide resilient flooring manufactured by a firm with a minimum of 10 years’ experience with resilient flooring of type equivalent to those specified.
   1. Manufacturer’s quality management system must have ISO 9001:2000 approval.
   2. Provide resilient flooring products, including wall base, accessories and subfloor preparation products from one manufacturer to ensure color matching and compatibility.
   3. Manufacturer shall be capable of providing technical training and technical field service representation.

B. Installer Qualifications: Acceptable to manufacturer of resilient flooring or INSTALL (International Standards & Training Alliance) resilient certified for the requirements of the project.

C. Sustainable Design Requirements:
   2. Construction waste take back program for the purpose of reducing jobsite waste by taking back uninstalled waste flooring. Details of the nora® program are available at www.nora.com/us.
   3. Flooring surfaces that are easily cleaned and do not require coatings and stripping, or use chemicals that may be hazardous to human health.
   4. Supply all required products that are CA 01350 compliant.
   5. Flooring that is free of materials known to be teratogenic, mutagenic or carcinogenic.
   6. Flooring that contains no polyvinyl chloride or plasticizers.
   7. Flooring that contains no halogens.
   8. Flooring that contains no asbestos.

1.5 DELIVERY, STORAGE, AND HANDLING

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

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

1.6 PROJECT CONDITIONS

A. The installation area must be fully enclosed, weather tight, and climate controlled between 63°F and 75°F and 40% to 60% ambient relative humidity (RH) for at least 48 hours prior, during and 72 hours after installation (do not use gas fueled blowers). Dew point must be avoided. The substrate must be at least 5°F above dew point to be considered acceptable.

1.7 WARRANTY

A. Provide manufacturer’s standard limited warranty for wear, defect, bond and conductivity.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURER

A. Basis-of-Design: nora systems, Inc., 9 Northeastern Blvd., Salem, NH 03079; telephone 800-332-NORA or 603-894-1021; fax 603-894-6615.
2.2 RESILIENT TILE FLOORING FOR COMMERCIAL TRAFFIC

A. Rubber Floor Tile:

1. Product Name: norament® 825 round, Article 1902

2. ASTM Specification:
   Type IA and Grade 1

3. Limited Wear Warranty: 10 years

4. Material: nor nora® vulcanized rubber vulcanized rubber compound

5. Composition: Homogeneous

6. Color: 20 standard colors

7. Surface: Round

8. Back of Tile: Double-sanded smooth

9. Material Size (ASTM F2055):
   ± 0.018 inches (± 0.45mm) is required
   19.72 inches by 19.72 inches (501mm by 501mm)

10. Squareness (ASTM F2055):
    ± 0.010 inches (± 0.254mm) is required
    Meets requirements

11. Thickness (ASTM F386):
    + 0.015/-0.005 inches (+ 0.381/- 0.127mm)
    is required
    0.13 inches (3.2mm)

12. Dimensional Stability (ASTM F2199):
    ≤ 0.15% in both directions is required
    Meets requirements

13. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required
    NBSIR 75 950, 0.8

    < 450 is required
    NBS, 413 (flaming) and 367 (non-flaming)

15. CAN/ULC-S102.2:
    Surface Burning, FSC1 of 55 and SD of 450

16. Burn Resistance:
    Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047):
    ≥ 0.5 is required
    Static coefficient of friction, Neolite dry 0.76, Neolite wet 0.85

    Resistant to bacteria, fungi, and micro-organism activity

19. VOC’s:
    This flooring is GREENGUARD Gold Certified for Low VOC
    Emissions and CA 01350 compliant

20. Latex Allergies (ASTM D6499):
    Inhibition Elisa, results are below detection level

21. Sound Absorption (ISO 140):
    ∆ Lw 12 dB (compare only ∆ values)

22. Hardness (ASTM D2240):
    ≥ 85 is required
    Shore type “A”, 89

23. Static Load (ASTM F970):
    ≤ 0.005 inches with 250 lbs. is required
    Residual compression of 0.004 inches with 800 lbs.

24. Rolling Load Limit:
    ≤ 550 lbs. / sq. inch, with no forklift traffic

25. Abrasion Resistance (ASTM D3389):
    ≤ 0.035 oz. (1.0g) is required
    1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.005
    oz. (0.014g) weight loss

26. Oil & Grease Resistance:
    No

27. Heat Resistance (ASTM F1514):
    Easily achieved with all batches and regular maintenance
Avg. ∆E ≤ 8.0 is required


29. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

30. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

31. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

32. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

B. Rubber Floor Tile:

33. Product Name: norament® 926 round, Article 0354

34. ASTM Specification: Type IA and Grade 1

35. Limited Wear Warranty: 10 years

36. Material: nora nora® vulcanized rubber vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

37. Composition: Homogeneous

38. Color: 20 standard colors

39. Surface: Round

40. Back of Tile: Double-sanded smooth

41. Material Size (ASTM F2055): ± 0.018 inches (± 0.45mm) is required

42. Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required

43. Thickness (ASTM F386): +0.015/-0.005 inches (+0.381/-0.127mm) is required

44. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required

45. Flammability (E648/NFPA 253): NBSIR 75 950, 1.1
46. Smoke Density (ASTM E662/NFPA 258): < 450 is required

NBS, 380 (flaming) and 230 (non-flaming)

47. CAN/ULC-S102.2: Surface Burning, FSC1 of 70 and SD of 470

Resistant to cigarette and solder burns

48. Burn Resistance: ≥ 0.5 is required

Static coefficient of friction, Neolite dry 0.76, Neolite wet 0.85

49. Slip Resistance (ASTM D2047):

Resistant to bacteria, fungi, and micro-organism activity


This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant

51. VOC's:

Inhibition Elisa, results are below detection level

52. Latex Allergies (ASTM D6499):

Δ Lw 12 dB (compare only Δ values)

53. Sound Absorption (ISO 140):

Shore type “A”, 82

54. Hardness (ASTM D2240):

Residual compression of 0.004 inches with 800 lbs.

≥ 70 is required

55. Static Load (ASTM F970):

≤ 0.005 inches with 250 lbs. is required

≤ 0.035 oz. (1.0g) weight loss

56. Rolling Load Limit:

≤ 0.005 inches with 250 lbs. is required

≤ 550 lbs. / sq. inch, with no forklift traffic

57. Abrasion Resistance (ASTM D3389):

1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.005 oz. (0.014g) weight loss

≤ 0.035 oz. (1.0g) is required

58. Oil & Grease Resistance:

Easily achieved with all batches and regular maintenance

< 2000 Volts at 20% RH

59. Heat Resistance (ASTM F1514):

< 2000 Volts at 20% RH

Avg. ΔE ≤ 8.0 is required

< 2000 Volts at 20% RH

60. Static Generation (AATCC 134):

< 2000 Volts at 20% RH

< 2000 Volts at 20% RH

61. Cleaning:

Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

Higher shine achieved by buffing without any artificial topical applied coatings.

62. Shine:

Cleaning and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

63. Stain Removal:

Higher shine achieved by buffing without any artificial topical applied coatings.

64. Substrate Preparation:

Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

Per ASTM F710 and the nora® Installation Guide

C. Rubber Floor Tile:

1. Product Name:

norament® arago, Article 3118

2. ASTM Specification:

Type IB and Grade 2
ASTM F1344 Standard Specification for Rubber Floor Tile

3. Limited Wear Warranty: 10 years

4. Material: nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous rubber compound with a random scattered design

6. Color: 12 standard colors

7. Surface: Landscape

8. Back of Tile: Double-sanded smooth

9. Material Size (ASTM F2055): ± 0.02 inches (± 0.5mm) by ± 0.018 inch (± 0.45mm) is required

10. Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required

11. Thickness (ASTM F386): + 0.015/-0.005 inches (+ 0.381/- 0.127mm) is required

12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required

13. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required

14. Smoke Density (ASTM E662/NFPA 258): < 450 is required

15. CAN/ULC-S102.2: Surface Burning, FSC1 of 75 and SD of 470

16. Burn Resistance: Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047): ≥ 0.5 is required


19. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

21. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 15, Δ Lw 10dB (compare only Δ values)

22. Hardness (ASTM D2240): ≥ 70 is required

23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required

24. Rolling Load Limit: ≤ 850 lbs. / sq. inch; for fork lift traffic nora® polyurethane adhesive is required

25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required

26. Oil & Grease Resistance: Yes

27. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required

29. Thermal Transmission (ASTM C518): R-value of -0.90

30. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

31. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

32. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

D. Rubber Floor Tile:
   1. Product Name: norament® grano, Article 1880
   3. Limited Wear Warranty: 10 years
   4. Material: nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition: Homogeneous rubber compound with a random scattered design
   6. Color: 32 standard colors
   7. Surface: Hammered
   8. Back of Tile: Double-sanded smooth
   9. Material Size (ASTM F2055): ± 0.02 inches (± 0.5mm) is required
   10. Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required
   11. Thickness(ASTM F386): + 0.015/-0.005 inches (+ 0.381/- 0.127mm) is required
   12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
   13. Flammability(E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
   14. Smoke Density(ASTM E662/NFPA 258): NBS, 267 (flaming) and 130 (non-flaming)
   15. CAN/ULC-S102.2: Surface Burning, FSC1 of 70 and SD of 470
16. Burn Resistance: Resistant to cigarette and solder burns
17. Slip Resistance (ASTM D2047): ≥ 0.5 is required
19. VOC's: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
21. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 11, ∆ Lw 11 dB (compare only ∆ values)
22. Sound Generation: 66.3 dBA, 68.5 dBC and 19.6 Sones, Independently tested
23. Hardness (ASTM D2240): ≥ 70 is required
24. Static Load (ASTM F970): Residual compression of 0.005 inches with 800 lbs. is required
25. Rolling Load Limit: ≤ 850 lbs. / sq. inch; for fork lift traffic nora® polyurethane adhesive is required
26. Abrasion Resistance (ASTM D3389): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.002 oz. (0.05g) weight loss
27. Oil & Grease Resistance: Yes
28. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
29. Static Generation (AATCC 134): < 2000 Volts at 20% RH
30. Thermal Transmission (ASTM C518): R-value of -0.90
31. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
32. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
33. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.
34. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

E. Rubber Floor Tile:
1. Product Name: norament® hammered, Article 1910
2. ASTM Specification: Type IA and Grade 1
3. Limited Wear Warranty: 10 years
4. Material: nora® vulcanized rubber compound xp with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Homogeneous
6. Color: 5 standard colors
7. Surface: Hammered
8. Back of Tile: Double-sanded smooth
9. Material Size (ASTM F2055): ± 0.018 inches (± 0.45mm) is required 19.76 inches by 19.76 inches (502mm by 502mm)
10. Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required Meets requirements
11. Thickness (ASTM F386): + 0.015/-0.005 inches (+ 0.381/- 0.127mm) is required 0.11 inches (2.7mm)
12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required Meets requirements
13. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required NBSIR 75 950, 0.87
14. Smoke Density (ASTM E662/NFPA 258): < 450 is required NBS, 162 (flaming) and 208 (non-flaming)
15. CAN/ULC-S102.2: Surface Burning, FSC1 of 55 and SD of 450
16. Burn Resistance: Resistant to cigarette and solder burns
17. Slip Resistance (ASTM D2047): ≥ 0.5 is required Static coefficient of friction, Neolite dry 0.90, Neolite wet 1.0
19. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant
20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
21. Sound Absorption (ISO 140): ∆ Lw 9 dB (compare only ∆ values)
22. Hardness (ASTM D2240): ≥ 85 is required Shore type “A”, 89
23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required Residual compression of 0.005 inches with 800 lbs.
24. Rolling Load Limit: ≤ 550 lbs. / sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.006 oz. (0.16g) weight loss
26. Oil & Grease Resistance: No
27. Heat Resistance (ASTM F1514): Avg. ∆E ≤ 8.0 is required Easily achieved with all batches and regular maintenance
29. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any
factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

30. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

31. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

32. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

F. Rubber Floor Tile:

1. Product Name: norament® satura, Article 1880
2. ASTM Specification: Type IB and Grade 2
3. Limited Wear Warranty: 10 years
4. Material: nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Homogeneous rubber compound with a random scattered design
6. Color: 32 standard colors
7. Surface: Hammered
8. Back of Tile: Double-sanded smooth
9. Material Size (ASTM F2055): ± 0.02 inches (± 0.5mm) is required
10. Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required
11. Thickness (ASTM F386): 0.14 inches (3.5mm)
12. Dimensional Stability (ASTM F2199): Meets requirements
13. Flammability (E648/NFPA 253): NBSIR 75 950, 0.92
14. Smoke Density (ASTM E662/NFPA 258): NBS, 267 (flaming) and 130 (non-flaming)
15. CAN/ULC-S102.2: Surface Burning, FSC1 of 70 and SD of 470, achieved
16. Burn Resistance: Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047): ≥ 0.5 is required


19. VOC's: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

21. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 11, ∆ Lw 11 dB (compare only ∆ values)

22. Sound Generation: 66.3 dBA, 68.5 dBC and 19.6 Sones, Independently tested

23. Hardness (ASTM D2240): ≥ 70 is required

24. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required

25. Rolling Load Limit: ≤ 850 lbs. / sq. inch; for fork lift traffic nora® polyurethane adhesive is required

26. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required

27. Oil & Grease Resistance: Yes


29. Static Generation (AATCC 134): < 2000 Volts at 20% RH

30. Thermal Transmission (ASTM C518): R-value of -0.90

31. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

32. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

33. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

34. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

G. Rubber Floor Tile:
1. Product Name: norament® xp, Article 1880
2. ASTM Specification: Type IB and Grade 1
ASTM F1344 Standard Specification for Rubber Floor Tile

3. Limited Wear Warranty: 10 years

4. Material: nora® vulcanized rubber compound xp with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous

6. Color: 16 standard colors

7. Surface: Hammered

8. Back of Tile: Double-sanded smooth

9. Material Size (ASTM F2055): ± 0.02 inches (± 0.5mm) is required 39.53 inches by 39.53 inches (1004mm by 1004mm)

10. Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required Meets requirements

11. Thickness (ASTM F386): + 0.015/-0.005 inches (+ 0.381/- 0.127mm) is required 0.14 inches (3.5mm)

12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required Meets requirements

13. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required NBSIR 75 950, 0.71

14. Smoke Density (ASTM E662/NFPA 258): < 450 is required NBS, 423 (flaming) and 290 (non-flaming)

15. CAN/ULC-S102.2: Surface Burning, FSC1 of 55 and SD of 450

16. Burn Resistance: Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047): ≥ 0.5 is required Static coefficient of friction, Neolite dry 0.90 Neolite wet 1.0


19. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant

20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

21. Sound Absorption (ASTM E2179): Δ IIC 15 (compare only Δ values) Shore type “A”, 89

22. Hardness (ASTM D2240): ≥ 70 is required Residual compression of 0.002 inches with 800 lbs.

23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required Residual compression of 0.002 inches with 800 lbs.

24. Rolling Load Limit: ≤ 850 lbs. / sq. inch; for fork lift traffic nora® polyurethane adhesive is required

25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.005 oz. (0.13g) weight loss

26. Oil & Grease Resistance: No

27. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required Easily achieved with all batches and regular maintenance


29. Cleaning: Cleaned and maintained effectively using water, nora® pads
and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

30. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

31. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

32. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

H. Rubber Floor Tile:
1. Product Name: norament® xp trac, Article 325
3. Limited Wear Warranty: 10 years
4. Material: nora® vulcanized rubber compound xp with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Homogeneous
6. Color: 6 standard colors
7. Surface: A granular design with an enhanced surface profile
8. Back of Tile: Double-sanded smooth
9. Material Size (ASTM F2055): ± 0.02 inches (± 0.5mm) is required
10. Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required
11. Thickness (ASTM F386): + 0.015/-0.005 inches (+ 0.381/- 0.127mm) is required
12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
13. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
14. Smoke Density (ASTM E662/NFPA 258): < 450 is required
15. CAN/ULC-S102.2: Surface Burning, FSC1 of 55 and SD of 545
16. Burn Resistance: Resistant to cigarette and solder burns
17. Slip Resistance (ASTM D2047): \( \geq 0.5 \) is required
19. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant
20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
21. Sound Absorption (ASTM E2179): \( \Delta \) IIC 15 (compare only \( \Delta \) values)
22. Hardness (ASTM D2240): \( \geq 70 \) is required
23. Static Load (ASTM F970): \( \leq 0.005 \) inches with 250 lbs. is required
24. Rolling Load Limit: \( \leq 850 \) lbs. / sq. inch; for fork lift traffic nora® polyurethane adhesive is required
25. Abrasion Resistance (ASTM D3389): \( \leq 0.035 \) oz. (1.0g) is required
26. Oil & Grease Resistance: No
27. Heat Resistance: Avg. \( \Delta E \) \( \leq 8.0 \) is required
29. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
30. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be \( \sim 1 \) m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.
31. Substrate Preparation:

I. Rubber Floor Tile:
1. Product Name: noraplan® eco, Article 2490
3. Limited Wear Warranty: 5 years
4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals
5. Composition: Homogeneous rubber compound with a random scattered design
6. Color: 16 standard colors
7. Surface: Smooth
8. Back of Tile: Double-sanded smooth
9. Material Size (ASTM F2055): ± 0.018 (± 0.45mm) is required
   24.015 inches by 24.015 inches (610mm by 610mm)
10. Squareness (ASTM F2055): ± 0.018 inches (± 0.45mm) is required
11. Thickness (ASTM F386): ± 0.005 inches (± 0.127mm) is required
12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
13. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
    NBSIR 75 950, 0.97
14. Smoke Density (ASTM E662/NFPA 258): < 450 is required
    NBS, 196 (flaming) and 207 (non-flaming)
15. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370
16. Burn Resistance: Resistant to cigarette and solder burns
17. Slip Resistance (ASTM D2047): ≥ 0.5 is required
    Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90
    (not recommended for ramps)
19. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
21. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 11, ∆ Lw 8 dB (compare only ∆ values)
    67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
22. Sound Generation: Shore type “A”, 92
23. Hardness (ASTM D2240): ≥ 85 is required
24. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
25. Rolling Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic
26. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
27. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required
28. Oil & Grease Resistance: No
29. Heat Resistance (ASTM F1514): Avg. ∆E ≤ 8.0 is required
30. Light Resistance: Avg. ∆E ≤ 8.0 is required
31. Static Generation (AATCC 134): < 2000 Volts at 20% RH
32. Thermal Transmission (ASTM C518): R-value of 0.04
33. Cleaning: Cleaned and maintained effectively using water, nora® pads
and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

34. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

35. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

36. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

J. Rubber Floor Tile:
   1. Product Name: noraplan environcare™ 2.0 mm, Article 2462
   3. Limited Wear Warranty: 5 years
   4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition: Homogeneous rubber compound with a random scattered design
   6. Color: 48 standard colors
   7. Surface: Smooth
   8. Back of Tile: Double-sanded smooth
   9. Material Size (ASTM F2055): ± 0.018 (± 0.45mm) is required
   10. Squareness (ASTM F2055): ± 0.018 inches (± 0.45mm) is required
   11. Thickness (ASTM F386): ± 0.005 inches (± 0.127mm) is required
   12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
   13. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
   14. Smoke Density (ASTM E662/NFPA 258): < 450 is required
   15. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370
16. Burn Resistance: Resistant to cigarette and solder burns
17. Slip Resistance (ASTM D2047): $\geq 0.5$ is required
19. VOC's: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
21. Sound Absorption (ASTM E2179/ISO 140): $\Delta$ IIC 11, $\Delta$ Lw 8 dB (compare only $\Delta$ values)
22. Sound Generation: 67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
23. Hardness (ASTM D2240): $\geq 85$ is required
24. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
25. Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic
26. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
27. Elongation (ASTM D412): Modulus $\@ 10\%$ is 913.1 lbs. per sq. inch
28. Oil & Grease Resistance: No
29. Heat Resistance (ASTM F1514): Avg. $\Delta E \leq 8.0$ is required
30. Light Resistance: Avg. $\Delta E \leq 8.0$ is required
31. Static Generation (AATCC 134): < 2000 Volts at 20% RH
32. Thermal Transmission (ASTM C518): R-value of 0.04
33. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
34. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
35. Stain Removal: Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.
36. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide
K. Rubber Floor Tile:

1. Product Name: noraplan environcare™ 3.0 mm, Article 2463

2. ASTM Specification:
   ASTM F1344 Standard Specification for Rubber Floor Tile

3. Limited Wear Warranty: 5 years

4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous rubber compound with a random scattered design

6. Color: 48 standard colors

7. Surface: Smooth

8. Back of Tile: Double-sanded smooth

9. Material Size (ASTM F2055): 24.015 inches by 24.015 inches (610mm by 610mm)

10. Squareness (ASTM F2055): Meets requirements

11. Thickness (ASTM F386): 0.12 inches (3mm)

12. Dimensional Stability (ASTM F2199): Meets requirements

13. Flammability (E648/NFPA 253): NBSIR 75 950, 1.03

14. Smoke Density (ASTM E662/NFPA 258): NBS, 376 (flaming) and 256 (non-flaming)

15. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370

16. Burn Resistance: Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.91 (not recommended for ramps)


19. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

21. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 14, ∆ Lw 10 dB (compare only ∆ values)

22. Sound Generation: 67.2 dBA, 68.9 dBC and 20.9 Sones, Independently tested


24. Static Load (ASTM F970): Residual compression of 0.003 inches with 800 lbs.

25. Rolling Load Limit: ≤ 550 lbs. / sq. inch, with no forklift traffic

26. Abrasion Resistance (ASTM D3389): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.003 oz. (0.09g) weight loss

27. Elongation (ASTM D412): Modulus @ 10% is 1,299.0 lbs. per sq. inch

28. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required
28. Oil & Grease Resistance: No
29. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
   Avg. ∆E ≤ 8.0 is required
30. Light Resistance: Easily achieved with all batches and regular maintenance
   Avg. ∆E ≤ 8.0 is required
31. Static Generation (AATCC 134): < 2000 Volts at 20% RH
32. Thermal Transmission (ASTM C518): R-value of 0.04
33. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
34. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
35. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.
36. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

L. Rubber Floor Tile:
1. Product Name: noraplan® Iona 2.0 mm, Article 266B
2. ASTM Specification: Type I and Grade 1
   ASTM F1344 Standard Specification for Rubber Floor Tile
3. Limited Wear Warranty: 5 years
4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Heterogeneous rubber compound
6. Color: 24 standard colors
7. Surface: Textured
8. Back of Tile: Double-sanded smooth
9. Material Size (ASTM F2055): 24.015 inches by 24.015 inches (610mm by 610mm)
   ± 0.018 inches (± 0.45mm) is required
10. Squareness (ASTM F2055): Meets requirements
    ± 0.018 inches (± 0.45mm) is required
11. Thickness (ASTM F386): 0.08 inches (2mm)
± 0.005 inches (± 0.127mm) is required

12. Dimensional Stability (ASTM F2199):
≤ 0.15% in both directions is required  
   Meets requirements

13. Flammability (E648/NFPA 253):
≥ 0.45 watts/sq. cm for Class 1 is required
   NBSIR 75 950,0.93

< 450 is required
   NBS, 152 (flaming) and 186 (non-flaming)

15. CAN/ULC-S102.2:
Surface Burning, FSC1 of 125 and SD of 370

16. Burn Resistance:
Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047):
≥ 0.5 is required
   Static coefficient of friction, Neolite dry 0.92 Neolite wet 0.91
   (not recommended for ramps)

Resistant to bacteria, fungi and micro-organism activity

19. VOC’s:
This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

20. Latex Allergies (ASTM D6499):
Inhibition Elisa, results are below detection level

21. Sound Absorption (ASTM E2179/ISO 140):
Δ IIC 11, Δ Lw 8dB (compare only Δ values)

22. Sound Generation:
67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
Shore type “A”, 92

23. Hardness (ASTM D2240):
≥ 85 is required
Residual compression of 0.003 inches with 800 lbs.

24. Static Load (ASTM F970):
≤ 0.005 inches with 250 lbs. is required
≤ 450 lbs. / sq. inch, with no forklift traffic

25. Rolling Load Limit:
≤ 0.035 oz. (1.0g) is required
1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss

≥ 300 lbs. per sq. inch is required
Modulus @ 10% is 913.1 lbs. per sq. inch

27. Elongation (ASTM D412):
≥ 300 lbs. per sq. inch is required
No

28. Oil & Grease Resistance:
Easily achieved with all batches and regular maintenance

Avg. ΔE ≤ 8.0 is required
Easily achieved with all batches and regular maintenance

30. Light Resistance (ASTM F1515):
Avg. ΔE ≤ 8.0 is required
< 2000 Volts at 20% RH

31. Static Generation (AATCC 134/ANSI ESD S97.2):
R-value of 0.04

32. Thermal Transmission (ASTM C518):
Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

33. Cleaning:
Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of
application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

Per ASTM F710 and the nora® Installation Guide

35. Substrate Preparation:

M. Rubber Floor Tile:

1. Product Name:

2. ASTM Specification:
   ASTM F1344 Standard Specification for Rubber Floor Tile

3. Limited Wear Warranty:

4. Material:

5. Composition:

6. Color:

7. Surface:

8. Back of Tile:

9. Material Size ( ASTM F2055):
   ± 0.018 inches (± 0.45mm) is required

10. Squareness ( ASTM F2055):
    ± 0.018 inches (± 0.45mm) is required

11. Thickness ( ASTM F386):
    ± 0.005 inches (± 0.127mm) is required

12. Dimensional Stability ( ASTM F2199):
    ≤ 0.15% in both directions is required

13. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required

    < 450 is required

15. CAN/ULC-S102.2:

16. Burn Resistance:
    Resistant to cigarette and solder burns

17. Slip Resistance ( ASTM D2047):
    ≥ 0.5 is required

    Resistant to bacteria, fungi and micro-organism activity

19. VOC’s:
    This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

20. Latex Allergies ( ASTM D6499):
    Inhibition Elisa, results are below detection level

21. Sound Absorption ( ASTM E2179/ISO 140):
    △ IIC 14, △ Lw 10dB (compare only △ values)

22. Sound Generation:
    67.2 dBA, 68.9 dBC and 20.9 Sones, Independently tested

23. Hardness ( ASTM D2240):
    ≥ 85 is required

nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

noraplan® Iona 3.0 mm, Article 267B

Type I Grade 1

5 years

nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

Heterogeneous rubber compound

24 standard colors

Textured

Double-sanded smooth

24.015 inches by 24.015 inches (610mm by 610mm)

Meets requirements

0.12 inches (3mm)

Meets requirements

NBSIR 75 950, 1.09

NBS, 150 (flaming) and 246 (non-flaming)

Surface Burning, FSC1 of 125 and SD of 370

Resistant to cigarette and solder burns

Static coefficient of friction, Neolite dry 0.97, Neolite wet 0.94 (not recommended for ramps)

Resistant to bacteria, fungi and micro-organism activity

Inhibition Elisa, results are below detection level

△ IIC 14, △ Lw 10dB (compare only △ values)

67.2 dBA, 68.9 dBC and 20.9 Sones, Independently tested

Shore type “A”, 92
24. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
Residual compression of 0.003 inches with 800 lbs.

25. Rolling Load Limit: ≤ 550 lbs./sq. inch, with no forklift traffic

26. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.003 oz. (0.09g) weight loss

27. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required
Modulus @ 10% is 1,299.0 lbs. per sq. inch

28. Oil & Grease Resistance: No

29. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required
Easily achieved with all batches and regular maintenance

30. Light Resistance (ASTM F1515): Avg. ΔE ≤ 8.0 is required
Easily achieved with all batches and regular maintenance


32. Thermal Transmission (ASTM C518): R-value of 0.04

33. Cleaning:
Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

34. Stain Removal:
Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacturer per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturer's published cleaning and maintenance recommendations.

35. Substrate Preparation:
Per ASTM F710 and the nora® Installation Guide

N. Rubber Floor Tile:
1. Product Name:
noraplan® sentica 2.0 mm, Article 2700

2. ASTM Specification:
ASTM F1344 Standard Specification for Rubber Floor Tile

3. Limited Wear Warranty:
5 years

4. Material:
nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition:
Homogeneous rubber compound with a random scattered design

6. Color:
38 standard colors
7. Surface: Smooth
8. Back of Tile: Double-sanded smooth
9. Material Size (ASTM F2055): ± 0.018 (± 0.45mm) is required
24.015 inches by 24.015 inches (610mm by 610mm)
10. Squareness (ASTM F2055): Meets requirements
11. Thickness (ASTM F386): ± 0.005 inches (± 0.127mm) is required
11. Thickness (ASTM F386): 0.08 inches (2mm)
12. Dimensional Stability (ASTM F2199): Meets requirements
13. Flammability (E648/NFPA 253): NBSIR 75 950, 0.97
14. Smoke Density (ASTM E662/NFPA 258): NBS, 196 (flaming) and 207 (non-flaming)
15. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370
16. Burn Resistance: Resistant to cigarette and solder burns
17. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90
(Not recommended for ramps)
19. VOC’s: This flooring is GREEENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 complaint
Inhibition Elisa, results are below detection level
20. Latex Allergies (ASTM D6499): Residual compression of 0.003 inches with 800 lbs.
21. Sound Absorption (ASTM E2179/ISO 140): ≤ 0.005 inches with 250 lbs. is required
22. Sound Generation: ≤ 450 lbs. / sq. inch, with no forklift traffic
23. Hardness (ASTM D2240): ≥ 85 is required
67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
25. Rolling Load Limit: ≤ 0.005 oz. per sq. inch
26. Abrasion Resistance (ASTM D3389): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss
27. Elongation (ASTM D412): Modulus @ 10% is 913.1 lbs. per sq. inch
28. Oil & Grease Resistance:
29. Heat Resistance (ASTM F1514): ≤ 300 lbs. per sq. inch is required
30. Light Resistance: ≤ 300 lbs. per sq. inch is required
31. Static Generation (AATCC 134): ≤ 0.035 oz. (1.0g) is required
32. Thermal Transmission (ASTM C518): ≤ 0.018 inches (± 0.45mm) is required
33. Cleaning: ≤ 0.035 oz. (1.0g) is required
34. Abrasion Resistance (ASTM D3389):
35. Elongation (ASTM D412):
36. Oil & Grease Resistance:
37. Heat Resistance (ASTM F1514):
38. Light Resistance:
39. Static Generation (AATCC 134):
40. Thermal Transmission (ASTM C518):
41. Cleaning:
42. Surface: Smooth
43. Back of Tile: Double-sanded smooth
44. Material Size (ASTM F2055): ± 0.018 (± 0.45mm) is required
24.015 inches by 24.015 inches (610mm by 610mm)
45. Squareness (ASTM F2055): Meets requirements
46. Thickness (ASTM F386): ± 0.005 inches (± 0.127mm) is required
47. Dimensional Stability (ASTM F2199): Meets requirements
48. Flammability (E648/NFPA 253): NBSIR 75 950, 0.97
49. Smoke Density (ASTM E662/NFPA 258): NBS, 196 (flaming) and 207 (non-flaming)
50. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370
51. Burn Resistance: Resistant to cigarette and solder burns
52. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90
(Not recommended for ramps)
54. VOC’s: This flooring is GREEENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
Inhibition Elisa, results are below detection level
55. Latex Allergies (ASTM D6499): Residual compression of 0.003 inches with 800 lbs.
56. Sound Absorption (ASTM E2179/ISO 140): ≤ 0.005 inches with 250 lbs. is required
57. Sound Generation: ≤ 450 lbs. / sq. inch, with no forklift traffic
58. Hardness (ASTM D2240): ≤ 0.035 oz. (1.0g) is required
59. Static Load (ASTM F970): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss
60. Rolling Load Limit: ≤ 85 is required
61. Abrasion Resistance (ASTM D3389): Modulus @ 10% is 913.1 lbs. per sq. inch
62. Elongation (ASTM D412): ≤ 0.035 oz. (1.0g) is required
63. Oil & Grease Resistance:
64. Heat Resistance (ASTM F1514): ≤ 0.035 oz. (1.0g) is required
65. Light Resistance: ≤ 0.035 oz. (1.0g) is required
66. Static Generation (AATCC 134):
67. Thermal Transmission (ASTM C518):
68. Cleaning:
34. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

35. Stain Removal: Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.

36. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

O. Rubber Floor Tile:
1. Product Name: noraplan® sentica 3.0 mm, Article 2701
2. ASTM Specification: Type I and Grade 1
3. Limited Wear Warranty: 5 years
4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Homogeneous rubber compound with a random scattered design
6. Color: 38 standard colors
7. Surface: Smooth
8. Back of Tile: Double-sanded smooth
9. Material Size (ASTM F2055): ± 0.018 (± 0.45mm) is required
10. Squareness (ASTM F2055): ± 0.018 inches (± 0.45mm) is required
11. Thickness (ASTM F386): ± 0.005 inches (± 0.127mm) is required
12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
13. Flammability (E648/NFPA 253): NBSIR 75 950, 1.03
14. Smoke Density (ASTM E662/NFPA 258): NBS, 376 (flaming) and 256 (non-flaming)
15. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370
16. Burn Resistance: Resistant to cigarette and solder burns
17. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.91 (not recommended for ramps)
18. Bacteria Resistance (ASTM E2180/ASTM Resistant to bacteria, fungi, and micro-organism activity
19. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant Inhibition Elisa, results are below detection level

20. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 14, ∆ Lw 10 dB (compare only ∆ values) 67.2 dBA, 68.9 dBC and 20.9 Sones, Independently tested

21. Sound Generation: Shore type “A”, 92

22. Hardness (ASTM D2240): ≥ 85 is required

23. Static Load (ASTM F970): Residual compression of 0.003 inches with 800 lbs.

24. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required

25. Rolling Load Limit: ≤ 550 lbs. / sq. inch, with no forklift traffic

26. Abrasion Resistance (ASTM D3389): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.003 oz. (0.09g) weight loss

27. Elongation (ASTM D412): Modulus @ 10% is 1,299.0 lbs. per sq. inch

28. Oil & Grease Resistance: No

29. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance Avg. ∆E ≤ 8.0 is required

30. Light Resistance: Easily achieved with all batches and regular maintenance Avg. ∆E ≤ 8.0 is required

31. Static Generation (AATCC 134): < 2000 Volts at 20% RH

32. Thermal Transmission (ASTM C518): R-value of 0.04

33. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

34. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

35. Stain Removal: Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.

36. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

P. Rubber Floor Tile:

1. Product Name: noraplan® stone, Articles 0249 & 2600

2. ASTM Specification: Type I and Grade 1
<table>
<thead>
<tr>
<th>Specification ID</th>
<th>Test Method</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td>Limited Wear Warranty:</td>
<td>5 years</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Material:</td>
<td>nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Composition:</td>
<td>Homogeneous rubber compound with a non-directional scattered granulate design</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Color:</td>
<td>20 standard colors (Article 0249); 8 standard colors (Article 2600)</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Surface:</td>
<td>Slightly textured (Article 0249); smooth (Article 2600)</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Back of Tile:</td>
<td>Double-sanded smooth</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>Material Size (ASTM F2055):</td>
<td>± 0.018 (± 0.45mm) is required</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24.015 inches by 24.015 inches (610mm by 610mm)</td>
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</tr>
<tr>
<td>10</td>
<td></td>
<td>Squareness (ASTM F2055):</td>
<td>± 0.018 inches (± 0.45mm) is required</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meets requirements</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>Thickness (ASTM F386):</td>
<td>± 0.005 inches (± 0.127mm) is required</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.08 inches (2mm)</td>
<td></td>
</tr>
<tr>
<td>12</td>
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<td>Dimensional Stability (ASTM F2199):</td>
<td>≤ 0.15% in both directions is required</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meets requirements</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>Flammability (E648/NFPA 253):</td>
<td>NBSIR 75 950, 0.97</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≥ 0.45 watts/sq. cm for Class 1 is required</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>Smoke Density (ASTM E662/NFPA 258):</td>
<td>NBS, 196 (flaming) and 207 (non-flaming)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt; 450 is required</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>CAN/ULC-S102.2:</td>
<td>Surface Burning, FSC1 of 125 and SD of 370</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Resistant to cigarette and solder burns</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>Burn Resistance:</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>Slip Resistance (ASTM D2047):</td>
<td>Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90 (not recommended for ramps)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≥ 0.5 is required</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>Bacteria Resistance (ASTM E2180/ASTM G21):</td>
<td>Resistant to bacteria, fungi, and micro-organism activity</td>
</tr>
<tr>
<td>19</td>
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<td>VOC’s:</td>
<td>This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhibition Elisa, results are below detection level</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>Latex Allergies (ASTM D6499):</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>Sound Absorption (ASTM E2179/ISO 140):</td>
<td>Δ IIC 11, Δ Lw 8 dB (compare only Δ values)</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>Sound Generation:</td>
<td>67.9 dBA, 69.9 dBC and 22 Sones, Independently tested</td>
</tr>
<tr>
<td>23</td>
<td></td>
<td>Hardness (ASTM D2240):</td>
<td>Shore type “A”, 92</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≥ 85 is required</td>
<td></td>
</tr>
<tr>
<td>24</td>
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<td>Static Load (ASTM F970):</td>
<td>0.005 inches with 250 lbs. is required</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Residual compression of 0.003 inches with 800 lbs.</td>
<td></td>
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<tr>
<td>25</td>
<td></td>
<td>Rolling Load Limit:</td>
<td>≤ 450 lbs. / sq. inch, with no forklift traffic</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td>Abrasion Resistance (ASTM D3389):</td>
<td>1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≤ 0.035 oz. (1.0g) is required</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td>Elongation (ASTM D412):</td>
<td>Modulus @ 10% is 913.1 lbs. per sq. inch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≥ 300 lbs. per sq. inch is required</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td>Oil &amp; Grease Resistance:</td>
<td>No</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td>Heat Resistance (ASTM F1514):</td>
<td>Easily achieved with all batches and regular maintenance</td>
</tr>
</tbody>
</table>
Avg. ΔE ≤ 8.0 is required

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>30.</td>
<td>Light Resistance: Avg. ΔE ≤ 8.0 is required</td>
</tr>
<tr>
<td>31.</td>
<td>Static Generation (AATCC 134):</td>
</tr>
<tr>
<td>32.</td>
<td>Thermal Transmission (ASTM C518):</td>
</tr>
<tr>
<td>33.</td>
<td>Cleaning:</td>
</tr>
<tr>
<td>34.</td>
<td>Shine:</td>
</tr>
<tr>
<td>35.</td>
<td>Stain Removal:</td>
</tr>
<tr>
<td>36.</td>
<td>Substrate Preparation:</td>
</tr>
</tbody>
</table>

### 2.3 RESILIENT TILE FLOORING FOR COMMERCIAL TRAFFIC WITH PRE-APPLIED ADHESIVE

A. Rubber Floor Tile (nora® nTx):

1. **Product Name:** norament® arago nTx, Article 3122
2. **ASTM Specification:** ASTM F1344 Standard Specification for Rubber Floor Tile
3. **Limited Wear Warranty:** 10 years
4. **Material:** nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. **Composition:** Homogeneous rubber compound with a random scattered design
6. **Color:** 2 standard colors; additional colors available with minimum order
7. **Surface:** Landscape
8. **Back of Tile:** nora® nTx pre-applied adhesive
9. **Material Size (ASTM F2055):** ± 0.02 inches (± 0.5mm) by ± 0.018 inch (± 0.45mm) is required
10. Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required Meets requirements
11. Thickness (ASTM F386): + 0.015/-0.005 inches (+ 0.381/- 0.127mm) is required 0.14 inches (3.5mm)
12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required Meets requirements
13. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required NBSIR 75 950, 0.98
14. Smoke Density (ASTM E662/NFPA 258): < 450 is required NBS, 369 (flaming) and 205 (non-flaming)
15. Burn Resistance: Resistant to cigarette and solder burns
16. Slip Resistance (ASTM D2047): ≥ 0.5 is required Static coefficient of friction, Neolite dry 0.81, Neolite wet 0.87 (not recommended for ramps)
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 15, Δ Lw 10dB (compare only Δ values) Shore type “A”, 82
21. Hardness (ASTM D2240): ≥ 70 is required
22. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required Residual compression of 0.004 inches with 800 lbs.
23. Rolling Load Limit: ≤ 850 lbs./sq. inch; will withstand fork lift traffic
24. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss
25. Oil & Grease Resistance: Yes
26. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required Easily achieved with all batches and regular maintenance
27. Static Generation (AATCC 134): < 2000 Volts at 20% RH
28. Thermal Transmission (ASTM C518): R-value of -0.90
29. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
30. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in
accordance with manufacturers published cleaning and maintenance recommendations.

As per the nora® nTx Installation Guide

31. Substrate Preparation:

B. Rubber Floor Tile (nora® nTx):

1. Product Name: norament® grano nTx, Article 3111

2. ASTM Specification: Type IB and Grade 2

3. Limited Wear Warranty: 10 years

4. Material: nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous rubber compound with a random scattered design

6. Color: 6 standard colors; additional colors available with minimum order

7. Surface: Hammered

8. Back of Tile: nora® nTx pre-applied adhesive

9. Material Size (ASTM F2055): 39.53 inches by 39.53 inches (1004mm by 1004mm)

10. Squareness (ASTM F2055): Meets requirements

11. Thickness (ASTM F386): 0.14 inches (3.5mm)

12. Dimensional Stability (ASTM F2199): Meets requirements

13. Flammability (E648/NFPA 253): NBSIR 75 950, 0.97

14. Smoke Density (ASTM E662/NFPA 258): NBS, 346 (flaming) and 145 (non-flaming)

15. Burn Resistance: Resistant to cigarette and solder burns

16. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.99, Neolite wet 0.95(not recommended for Ramps)


18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

20. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 11, Δ Lw 11 dB (compare only Δ values)

21. Sound Generation: 66.3 dBA, 68.5 dBC and 19.6 Sones, Independently tested


23. Static Load (ASTM F970): Residual compression of 0.005 inches with 800 lbs.
24. Rolling Load Limit: ≤ 850 lbs./sq. inch; will withstand fork lift traffic
25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
26. Oil & Grease Resistance:
27. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
   Avg. ∆E ≤ 8.0 is required
29. Thermal Transmission (ASTM C518): R-value of -0.90
30. Cleaning:
   Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
31. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
32. Stain Removal:
   Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.
33. Substrate Preparation: As per the nora® nTx Installation Guide

C. Rubber Floor Tile (nora® nTx):
1. Product Name: norament® satura nTx, Article 3111
2. ASTM Specification:
   ASTM F1344 Standard Specification for Rubber Floor Tile
3. Limited Wear Warranty: 10 years
   Limited Bond Warranty: 10 years
4. Material: nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Homogeneous rubber compound with a random scattered design
6. Color: 2 standard colors; additional colors available with minimum order
7. Surface: Hammered
8. Back of Tile:
9. Material Size (ASTM F2055):
   ± 0.02 inches (± 0.5mm) is required
   39.53 inches by 39.53 inches (1004mm by 1004mm)
10. Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required. Meets requirements
11. Thickness (ASTM F386): + 0.015/-0.005 inches (+ 0.381/- 0.127mm) is required. 0.14 inches (3.5mm)
12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required. Meets requirements
13. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required. NBSIR 75 950, 0.97
14. Smoke Density (ASTM E662/NFPA 258): < 450 is required. NBS, 346 (flaming) and 145 (non-flaming)
15. Burn Resistance: Resistant to cigarette and solder burns
16. Slip Resistance (ASTM D2047): ≥ 0.5 is required. Static coefficient of friction, Neolite dry 0.99, Neolite wet 0.95 (not recommended for ramps)
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 11, ∆ Lw 11 dB (compare only ∆ values) 66.3 dBA, 68.5 dBC and 19.6 Sones, Independently tested
21. Sound Generation: Shore type “A”, 82
22. Hardness (ASTM D2240): ≥ 70 is required. Residual compression of 0.005 inches with 800 lbs.
23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required. ≤ 850 lbs. / sq. inch; will withstand fork lift traffic
24. Rolling Load Limit:
25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required. 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.002 oz. (0.05g) weight loss
26. Oil & Grease Resistance: Yes
27. Heat Resistance (ASTM F1514): Avg. ∆E ≤ 8.0 is required. Easily achieved with all batches and regular maintenance
29. Thermal Transmission (ASTM C518): R-value of -0.90. Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
30. Cleaning:
31. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
32. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common
healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

As per the nora® nTx Installation Guide

norament® xp nTx, Article 3111

D. Rubber Floor Tile (nora® nTx):

1. Product Name:
   norament® xp nTx, Article 3111

2. ASTM Specification:
   ASTM F1344 Standard Specification for Rubber Floor Tile

3. Limited Wear Warranty:
   10 years

4. Material:
   nora® vulcanized rubber compound xp with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition:
   Homogeneous

6. Color:
   4 standard colors; additional colors available with minimum order

7. Surface:
   Hammered

8. Back of Tile:
   nora® nTx pre-applied adhesive

9. Material Size (ASTM F2055):
   ± 0.02 inches (± 0.5mm) is required

10. Squareness (ASTM F2055):
    ± 0.010 inches (± 0.254mm) is required

11. Thickness (ASTM F386):
    ± 0.015/-0.005 inches (+ 0.381/- 0.127mm) is required

12. Dimensional Stability (ASTM F2199):
    ≤ 0.15% in both directions is required

13. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required

    < 450 is required

15. CAN/ULC-S102.2:
    Surface Burning, FSC1 of 55 and SD of 450

16. Burn Resistance:
    Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047):
    Static coefficient of friction, Neolite dry 0.90, Neolite wet 1.0

    Resistant to bacteria, fungi, and micro-organism activity

19. VOC’s:
    This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant

20. Latex Allergies (ASTM D6499):
    Inhibition Elisa, results are below detection level

21. Sound Absorption (ASTM E2179):
    ∆ IIC 15 (compare only ∆ values)

22. Hardness (ASTM D2240):
    Shore type “A”, 89
23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
Residual compression of 0.002 inches with 800 lbs.

24. Rolling Load Limit: ≤ 850 lbs. / sq. inch; will withstand fork lift traffic

25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.005 oz. (0.13g) weight loss

26. Oil & Grease Resistance: No

27. Heat Resistance (ASTM F1514): Avg. ∆E ≤ 8.0 is required
Easily achieved with all batches and regular maintenance


29. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

30. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

31. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m², pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

32. Substrate Preparation: As per the nora® nTx Installation Guide

E. Rubber Floor Tile (nora® nTx):
1. Product Name: norament® xp trac nTx, Article 3134
3. Limited Wear Warranty: Limited Bond Warranty;
   10 years
   10 years
4. Material: nora® vulcanized rubber compound xp with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   Homogeneous
5. Composition:
6. Color: 4 standard colors; additional colors available with minimum order
   4 standard colors; additional colors available with minimum order
7. Surface: A granular design with an enhanced surface profile
8. Back of Tile: nora® nTx pre-applied adhesive
9. Material Size (ASTM F2055): ± 0.02 inches (± 0.5mm) is required
   39.53 inches by 39.53 inches (1004mm by 1004mm)
10. Squareness (ASTM F2055):  
   ± 0.010 inches (± 0.254mm) is required  
   Meets requirements

11. Thickness (ASTM F386):  
   + 0.015/-0.005 inches (+ 0.381/- 0.127mm)  
   is required  
   0.14 inches (3.5mm)

12. Dimensional Stability (ASTM F2199):  
   ≤ 0.15% in both directions is required  
   Meets requirements

13. Flammability (E648/NFPA 253):  
   ≥ 0.45 watts/sq. cm for Class 1 is required  
   NBSIR 75 950, 0.68

   < 450 is required  
   NBS, 372 (flaming) and 284 (non-flaming)

15. CAN/ULC-S102.2:  
   Surface Burning, FSC1 of 55 and SD of 545

16. Burn Resistance:  
   Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047):  
   ≥ 0.5 is required  
   Static coefficient of friction, Neolite dry 0.99, Neolite wet 0.98

   Resistant to bacteria, fungi, and micro-organism activity

19. VOC’s:  
   This flooring is GREENGUARD Gold Certified for Low VOC  
   Emissions and CA 01350 compliant

20. Latex Allergies (ASTM D6499):  
   Inhibition Elisa, results are below detection level

21. Sound Absorption (ASTM E2179):  
   Δ IIC 15 (compare only Δ values)  
   Shore type "A", 89 achieved

22. Hardness (ASTM D2240):  
   ≥ 70 is required  
   Residual compression of 0.005 inches with 800 lbs.

23. Static Load (ASTM F970):  
   ≤ 0.005 inches with 250 lbs. is required

24. Rolling Load Limit:  
   ≤ 850 lbs. / sq. inch; will withstand fork lift traffic

25. Abrasion Resistance (ASTM D3389):  
   ≤ 0.035 oz. (1.0g) is required  
   1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.005  
   oz. (0.13g) weight loss

26. Oil & Grease Resistance:  
   No  
   Easily achieved with all batches and regular maintenance

27. Heat Resistance:  
   Avg. ΔE ≤ 8.0 is required  
   < 2000 Volts at 20% RH

28. Static Generation (AATCC 134):  
   Cleaned and maintained effectively using water, nora® pads  
   and a suitable cleaning machine, without the use of any  
   factory and/or field-applied coatings. Also without using any  
   chemicals that may be hazardous or containing any  
   teratogenic, mutagenic or any other ingredients known to be  
   carcinogenic. Refer to nora maintenance guides for product  
   specific details.

29. Cleaning:  
   Samples of the product must be provided for stain removal  
   testing by the owner. Sample size should be ~ 1 m2, pre-  
   cleaned by manufacture per published recommendations.  
   Samples must have no coatings, sealers, floor finish or other  
   manually or mechanically applied finish on the surface of the  
   product. Stain testing must consist of application of common  
   healthcare related disinfectants and chemicals to include, but  
   not limited to, Betadine, Methylene Blue, Silver Nitrate and  
   alcohol based hand sanitizer. Duration of test period must be  
   no less than one week. Removal of chemicals must be in
accordance with manufacturers published cleaning and maintenance recommendations.

31. Substrate Preparation: As per the nora® nTx Installation Guide

### 2.4 RESILIENT Plank FLOORING FOR COMMERCIAL TRAFFIC

#### A. Rubber Floor Plank:

1. **Product Name:** noraplan® valua 2.0 mm, Articles 272A, 273A & 274A
2. **ASTM Specification:**
   - ASTM F1344 Standard Specification for Rubber Floor Tile
3. **Limited Wear Warranty:** 5 years
4. **Material:**
   - nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. **Composition:** Homogeneous rubber compound with a marbleized design
6. **Color:**
   - 6 standard colors; additional colors available upon request
7. **Surface:** Linear structured
8. **Back of Tile:** Double-sanded smooth
9. **Material Size (ASTM F2055):**
   - Up to and including 12 inches = ± 0.016 (± 0.4mm); larger than 12 inches up to and including 24 inches = ± 0.018 (± 0.45mm); larger than 24 inches = ± 0.02 (± 0.5mm) is required
   - 272A: 24.015 inches by 8.07 inches (610mm by 205mm)
   - 273A: 24.015 inches by 12 inches (610mm by 305mm)
   - 274A: 48.03 inches by 15.94 inches (1220mm by 405mm)
10. **Squareness (ASTM F2055):**
    - ± 0.018 inches (± 0.45mm) is required
11. **Thickness (ASTM F386):**
    - ± 0.015/-0.005 inches (± 0.381/-0.127 mm) is required
12. **Dimensional Stability (ASTM F2199):**
    - ≤ 0.15% in both directions is required
13. **Flammability (E648/NFPA 253):**
    - ≥ 0.45 watts/sq. cm for Class 1 is required
    - NBSIR 75 950, 0.98
14. **Smoke Density (ASTM E662/NFPA 258):**
    - < 450 is required
    - NBS, 134 (flaming) and 109 (non-flaming)
15. **Burn Resistance:**
    - Resistant to cigarette and solder burns
16. **Slip Resistance (ASTM D2047):**
    - ≥ 0.5 is required
    - Static coefficient of friction, rubber dry 0.97, rubber wet 0.85 (not recommended for ramps)
17. **Bacteria Resistance (ASTM E2180/ASTM G21):**
    - Resistant to bacteria, fungi, and micro-organism activity
18. **VOC’s:**
    - This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. **Latex Allergies (ASTM D6499):**
    - Inhibition Elisa, results are below detection level
20. **Sound Absorption (ISO 140):**
    - ∆ Lw 8 dB (compare only ∆ values)
21. **Hardness (ASTM D2240):**
    - ≥ 85 is required
    - Shore type “A”, 92
22. Static Load (ASTM F970):
   ≤ 0.005 inches with 250 lbs. is required

23. Rolling Load Limit:
   ≤ 450 lbs. / sq. inch, with no forklift traffic

   ≤ 0.035 oz. (1.0g) is required

25. Elongation (ASTM D412):
   ≥ 300 lbs. per sq. inch is required

26. Oil & Grease Resistance:
   No

27. Heat Resistance (ASTM F1514):
   Avg. ΔE ≤ 8.0 is required

28. Light Resistance:
   Avg. ΔE ≤ 8.0 is required

29. Static Generation (AATCC 134):
   < 2000 Volts at 20% RH

30. Thermal Transmission (ASTM C518):
   R-value of 0.04

31. Cleaning:
   Cleaned and maintained effectively without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

32. Shine:
   Higher shine achieved by buffing without any artificial topical applied coatings.

33. Stain Removal:
   Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.

34. Substrate Preparation:
   Per ASTM F710 and the nora® Installation Guide

B. Rubber Floor Plank:
   noraplan® valua 3.0 mm, Articles 275A, 276A & 277A
   Type I and Grade 1

   1. Product Name:

   2. ASTM Specification:
      ASTM F1344 Standard Specification for Rubber Floor Tile

   3. Limited Wear Warranty:
      5 years

   4. Material:
      nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

   5. Composition:
      Homogeneous rubber compound with a marbleized design

   6. Color:
      6 standard colors; additional colors available upon request

   7. Surface:
      Linear structure
8. Back of Tile: Double-sanded smooth
9. Material Size (ASTM F2055):
   - Up to and including 12 inches = ± 0.016 (± 0.4mm); larger than 12 inches up to and including 24 inches = ± 0.018 (± 0.45mm); larger than 24 inches = ± 0.02 (± 0.5mm) is required
   - 275A: 24.015 inches by 8.07 inches (610mm by 205mm)
   - 276A: 24.015 inches by 12 inches (610mm by 305mm)
   - 277A: 48.03 inches by 15.94 inches (1220mm by 405mm)
10. Squareness (ASTM F2055):
    ± 0.018 inches (± 0.45mm) is required
11. Thickness (ASTM F386):
    ± 0.015/-0.005 inches (± 0.381/-0.127 mm) is required
12. Dimensional Stability (ASTM F2199):
    ≤ 0.15% in both directions is required
13. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required
    - NBSIR 75 950, 1.08
    < 450 is required
    - NBS, 360 (flaming) and 203 (non-flaming)
15. Burn Resistance: Resistant to cigarette and solder burns
    ≥ 0.5 is required
    - Static coefficient of friction, rubber dry 0.97, rubber wet 0.85
    (not recommended for ramps)
    Resistant to bacteria, fungi, and micro-organism activity
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499):
    Inhibition Elisa, results are below detection level
20. Sound Absorption (ISO 140):
    Δ Lw 10 dB (compare only Δ values)
21. Hardness (ASTM D2240):
    ≥ 85 is required
    - Shore type “A”, 92
22. Static Load (ASTM F970):
    ≤ 0.005 inches with 250 lbs. is required
23. Rolling Load Limit:
    ≤ 550 lbs. / sq. inch, with no forklift traffic
    ≤ 0.035 oz. (1.0g) is required
    - 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.006 oz. (0.18g) weight loss
    - Modulus @ 10% is 1299 lbs. per sq. inch
25. Elongation (ASTM D412):
    ≥ 300 lbs. per sq. inch is required
26. Oil & Grease Resistance:
    No
27. Heat Resistance (ASTM F1514):
    Avg. ΔE ≤ 8.0 is required
    - Easily achieved with all batches and regular maintenance
28. Light Resistance:
    Avg. ΔE ≤ 8.0 is required
    - Easily achieved with all batches and regular maintenance
29. Static Generation (AATCC 134):
    < 2000 Volts at 20% RH
30. Thermal Transmission (ASTM C518):
    R-value of 0.04
31. Cleaning:
    Cleaned and maintained effectively without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
32. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

33. Stain Removal: Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturer’s published cleaning and maintenance recommendations.

34. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

2.5 RESILIENT PLANK FLOORING FOR COMMERCIAL TRAFFIC WITH PRE-APPLIED ADHESIVE

A. Rubber Floor Plank (nora® nTx):
   1. Product Name: noraplan® valua nTx 2.0 mm, Articles 211B, 212B & 213B
   2. ASTM Specification: Type I and Grade 1
      ASTM F1344 Standard Specification for Rubber Floor Tile
   3. Limited Wear Warranty: 5 years
      Limited Bond Warranty: 10 years
   4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition: Homogeneous rubber compound with marbleized design
   6. Color: 6 standard colors; additional colors available upon request
   7. Surface: Linear structured
   8. Back of Tile: nora® nTx pre-applied adhesive
   9. Material Size (ASTM F2055):
      Up to and including 12 inches = ± 0.016 (± 0.4mm); larger than 12 inches up to and including 24 inches = ± 0.018 (± 0.45mm); larger than 24 inches = ± 0.02 (± 0.5mm) is required
      211B: 24.015 inches by 8.07 inches (610mm by 205mm)
      212B: 24.015 inches by 12 inches (610mm by 305mm)
      213B: 48.03 inches by 15.94 inches (1220mm by 405mm)
   10. Squareness (ASTM F2055): Meets requirements
       ± 0.018 inches (± 0.45mm) is required
   11. Thickness (ASTM F386): 0.08 inches (2.0 mm)
       ± 0.005 inches (± 0.127mm) is required
   12. Dimensional Stability (ASTM F2199): Meets requirements
       ≤ 0.15% in both directions is required
   13. Flammability (E648/NFPA 253): NBSIR 75 950, 0.98
       ≥ 0.45 watts/sq. cm for Class 1 is required
   14. Smoke Density (ASTM E662/NFPA 258): NBS, 134 (flaming) and 109 (non-flaming)
       < 450 is required
   15. Burn Resistance: Resistant to cigarette and solder burns
≥ 0.5 is required

Resistant to bacteria, fungi, and micro-organism activity

18. VOC’s:  
This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

19. Latex Allergies (ASTM D6499):  
Inhibition Elisa, results are below detection level

20. Sound Absorption (ISO 140):  
Δ Lw 8 dB (compare only Δ values)

21. Hardness (ASTM D2240):  
≥ 85 is required

22. Static Load (ASTM F970):  
≤ 0.005 inches with 250 lbs. is required

23. Rolling Load Limit:  
≤ 450 lbs. / sq. inch, with no forklift traffic

≤ 0.035 oz. (1.0g) is required

25. Elongation (ASTM D412):  
≥ 300 lbs. per sq. inch is required

26. Oil & Grease Resistance:  
No

27. Heat Resistance (ASTM F1514):  
Avg. ∆E ≤ 8.0 is required

28. Light Resistance:  
Avg. ∆E ≤ 8.0 is required

29. Static Generation (AATCC 134):  
< 2000 Volts at 20% RH

30. Thermal Transmission (ASTM C518):  
R-value of 0.04

31. Cleaning:  
Cleaned and maintained effectively without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

32. Shine:  
Higher shine achieved by buffing without any artificial topical applied coatings.

33. Stain Removal:  
Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.

34. Substrate Preparation:  
As per the nora® nTx Installation Guide

B. Rubber Floor Plank (nora® nTx):  
1. Product Name:  
noraplan® valua nTx 3.0 mm, Articles 214B, 215B & 216B

2. ASTM Specification:  
Type I and Grade 1
ASTM F1344 Standard Specification for Rubber Floor Tile

3. Limited Wear Warranty: 5 years
   Limited Bond Warranty: 10 years

4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous rubber compound with marbleized design

6. Color: 6 standard colors; additional colors available upon request

7. Surface: Linear structured

8. Back of Tile: nora® nTx pre-applied adhesive

9. Material Size (ASTM F2055):
   Up to and including 12 inches = ± 0.016 (± 0.4mm); larger than 12 inches up to and including 24 inches = ± 0.018 (± 0.45mm); larger than 24 inches = ± 0.02 (± 0.5mm) is required

   214B: 24.015 inches by 8.07 inches (610mm by 205mm)
   215B: 24.015 inches by 12 inches (610mm by 305mm)
   216B: 48.03 inches by 15.94 inches (1220mm by 405mm)

10. Squareness (ASTM F2055): Meets requirements
    ± 0.018 inches (± 0.45mm) is required

11. Thickness (ASTM F386): 0.12 inches (3.0 mm)
    ± 0.005 inches (± 0.127mm) is required

12. Dimensional Stability (ASTM F2199): Meets requirements
    ≤ 0.15% in both directions is required

13. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required
    NBSIR 75 950, 1.08

    < 450 is required
    NBS, 360 (flaming) and 203 (non-flaming)

15. Burn Resistance:
    Resistant to cigarette and solder burns

    Static coefficient of friction, Rubber dry 0.97, Rubber wet 0.85
    (not recommended for ramps)

    Resistant to bacteria, fungi, and micro-organism activity

18. VOC's: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, GREENGUARD Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
    Inhibition Elisa, results are below detection level

19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ISO 140):
    ∆ Lw 10 dB (compare only ∆ values)

21. Hardness (ASTM D2240):
    ≥ 85 is required
    Shore type "A", 92

22. Static Load (ASTM F970):
    ≤ 0.005 inches with 250 lbs. is required
    Residual compression of 0.003 inches with 800 lbs.

23. Rolling Load Limit:
    ≤ 550 lbs. / sq. inch, with no forklift traffic

    ≤ 0.035 oz. (1.0g) is required
    1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.006 oz. (0.17g) weight loss

25. Elongation (ASTM D412):
    ≥ 300 lbs. per sq. inch is required
    Modulus @ 10% is 1,299.0 lbs. per sq. inch

26. Oil & Grease Resistance:
    No
27. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
   Avg. ΔE ≤ 8.0 is required
28. Light Resistance: Easily achieved with all batches and regular maintenance
   Avg. ΔE ≤ 8.0 is required
29. Static Generation (AATCC 134): < 2000 Volts at 20% RH
30. Thermal Transmission (ASTM C518): R-value of 0.04
31. Cleaning: Cleaned and maintained effectively without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
32. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
33. Stain Removal: Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.
34. Substrate Preparation: As per the nora® nTx Installation Guide

2.6 RESILIENT SHEET FLOORING FOR COMMERCIAL TRAFFIC

A. Rubber Sheet Floor Covering:
   1. Product Name: noraplan® eco, Article 1490
   2. ASTM Specification: Type I
      ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing
   3. Limited Wear Warranty: 5 years
   4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition: Homogeneous rubber compound with a random scattered design
   6. Color: 16 standard colors
   7. Surface: Smooth
   8. Back of Sheet: Double-sanded smooth
   9. Material Dimensions (ASTM F1859): 49.21 feet by 48 inches (15m by 1.22m), ≥ amount specified
   10. Thickness (ASTM F386): 0.08 inches (2mm)
   11. Dimensional Stability (ASTM F2199): Meets requirements
      ± 0.006 inches (± 0.15mm) is required
12. Flammability (E648/NFPA 253):
   ≥ 0.45 watts/sq. cm for Class 1 is required
   < 450 is required
14. CAN/ULC-S102.2:
15. Burn Resistance:
   ≥ 0.5 is required
18. VOC’s:
19. Latex Allergies (ASTM D6499):
20. Sound Absorption (ASTM E2179/ISO 140):
21. Sound Generation:
22. Hardness (ASTM D2240):
   ≥ 85 is required
23. Static Load (ASTM F970):
   ≤ 0.005 inches with 250 lbs. is required
24. Rolling Load Limit:
25. Abrasion Resistance (ASTM D3389):
   ≤ 0.035 oz. (1.0g) is required
26. Elongation (ASTM D412):
   ≥ 300 lbs. per sq. inch is required
27. Oil & Grease Resistance:
   Avg. ΔE ≤ 8.0 is required
29. Light Resistance:
   Avg. ΔE ≤ 8.0 is required
30. Static Generation (AATCC 134):
31. Thermal Generation (AATCC 134):
32. Cleaning:
33. Shine:
34. Stain Removal:
Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturer's published cleaning and maintenance recommendations. Per ASTM F710 and the nora® Installation Guide

35. Substrate Preparation:

B. Rubber Sheet Floor Covering (acoustic):
   1. Product Name:
   2. ASTM Specification:
      ASTM F1860 Standard Specification for Rubber Sheet Floor Covering With Backing
   3. Limited Wear Warranty:
   4. Material:

      noraplan environcare™ acoustic, Article 1420
      Type I and Grade 2

   5. Composition:

   6. Color:

   7. Surface:

   8. Back of Sheet:


   10. Thickness (ASTM F387):
        ± 0.008 inches (± 0.2mm) is required

   11. Dimensional Stability (ASTM F2199):
        ≤ 0.15% in both directions is required

   12. Flammability (E648/NFPA 253):
        ≥ 0.45 watts/sq. cm for Class 1 is required

        < 450 is required

   14. CAN/ULC-S102.2:

   15. Burn Resistance:

        ≥ 0.5 is required


   18. VOC’s:

   19. Latex Allergies (ASTM D6499):

   20. Sound Absorption (ASTM E2179/ISO 140):
        ∆ IIC 21, ∆ Lw 18dB (compare only ∆ values)

   21. Sound Generation:

   22. Hardness (ASTM D2240):
        ≥ 85 is required

   23. Static Load (ASTM F970):
        ≤ 0.005 inches with 250 lbs. is required

   24. Rolling Load Limit:
        ≤ 450 lbs. / sq. inch, with no forklift traffic

   25. Abrasion Resistance (ASTM D3389):
        1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.007

   nora® vulcanized rubber compound 915 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

   Homogeneous rubber compound with a random scattered design

   8 standard colors

   Smooth

   Double-sanded smooth

   39.37 feet by 48 inches (12m by 1.22m), ≥ amount specified

   0.16 inches (4mm) total thickness

   Meets requirements

   NBSIR 75 950, 1.0

   NBS, 299 (flaming) and 153 (non-flaming)

   Resistant to cigarette and solder burns

   Static coefficient of friction, Neolite dry 1.0, Neolite wet 0.90 (not recommended for ramps)

   Resistant to bacteria, fungi, and micro-organism activity

   Surface Burning, FSC1 of 130 and SD of 525

   Inhibition Elisa, results are below detection level

   Δ IIC 21, Δ Lw 18dB (compare only Δ values)

   61.7 dBA, 66.5 dBC and 14.8 Sones, Independently tested

   Shore type “A”, 92

   Residual compression of 0.003 inches with 800 lbs.

   ≤ 450 lbs. / sq. inch, with no forklift traffic

   1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.007
26. Elongation (ASTM D412):
   
   ≤ 0.035 oz. (1.0g) is required
   
   27. Oil & Grease Resistance:
   
   ≥ 300 lbs. per sq. inch is required
   
   
   Avg. ΔE ≤ 8.0 is required
   
   29. Light Resistance:
   
   Avg. ΔE ≤ 8.0 is required
   
   30. Static Generation (AATCC 134):
   
   < 2000 Volts at 20% RH
   
   31. Thermal Transmission (ASTM C518):
   
   R-value of 0.20
   
   32. Cleaning:
   
   Cleaned and maintained effectively using water, norag® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to norag maintenance guides for product specific details.
   
   33. Shine:
   
   Higher shine achieved by buffing without any artificial topical applied coatings.
   
   34. Stain Removal:
   
   Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.
   
   35. Substrate Preparation:
   
   Per ASTM F710 and the norag® Installation Guide
   
   C. Rubber Sheet Floor Covering:
   
   1. Product Name:
   
   noraplan environcare™ 2.0 mm, Article 1462
   
   2. ASTM Specification:
   
   ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing
   
   3. Limited Wear Warranty:
   
   5 years
   
   4. Material:
   
   norag® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   
   5. Composition:
   
   Homogeneous rubber compound with a random scattered design
   
   6. Color:
   
   48 standard colors
   
   7. Surface:
   
   Smooth
   
   8. Back of Sheet:
   
   Double-sanded smooth
   49.21 feet by 48 inches (15m by 1.22m), ≥ amount specified
10. Thickness (ASTM F386):
    ± 0.006 inches (± 0.15mm) is required
11. Dimensional Stability (ASTM F2199):
    ≤ 0.15% in both directions is required
12. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required
    < 450 is required
14. CAN/ULC-S102.2:
    Surface Burning, FSC1 of 125 and SD of 370
15. Burn Resistance:
    Resistant to cigarette and solder burns
    ≥ 0.5 is required
    Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90
    (not recommended for ramps)
    Resistant to bacteria, fungi, and micro-organism activity
18. VOC’s:
    This flooring is GREENGUARD Gold Certified for Low VOC
    Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499):
    Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140):
    ∆ IIC 11, ∆ Lw 8dB (compare only ∆ values)
    67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
21. Sound Generation:
    67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
22. Hardness (ASTM D2240):
    ≥ 85 is required
    Shore type “A”, 92
23. Static Load (ASTM F970):
    ≤ 0.005 inches with 250 lbs. is required
24. Rolling Load Limit:
    ≤ 450 lbs. / sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389):
    ≤ 0.035 oz. (1.0g) is required
26. Elongation (ASTM D412):
    ≥ 300 lbs. per sq. inch is required
27. Oil & Grease Resistance:
    No
    Avg. ∆E ≤ 8.0 is required
    Easily achieved with all batches and regular maintenance
29. Light Resistance:
    Avg. ∆E ≤ 8.0 is required
    Easily achieved with all batches and regular maintenance
30. Static Generation (AATCC 134):
    < 2000 Volts at 20% RH
    R-value of 0.04
31. Thermal Transmission (ASTM C518):
    Cleaned and maintained effectively using water, nora® pads
    and a suitable cleaning machine, without the use of any
    factory and/or field-applied coatings. Also without using any
    chemicals that may be hazardous or containing any
    teratogenic, mutagenic or any other ingredients known to be
    carcinogenic. Refer to nora maintenance guides for product
    specific details.
32. Cleaning:
    Samples of the product must be provided for stain removal
    testing by the owner. Sample size must be 24 inches by 24
inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

35. Substrate Preparation:

D. Rubber Sheet Floor Covering:

1. Product Name: noraplan environcare™ 3.0 mm, Article 1463
3. Limited Wear Warranty: 5 years
4. Material: norac® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Homogeneous rubber compound with a random scattered design
6. Color: 48 standard colors
7. Surface: Smooth
8. Back of Sheet: Double-sanded smooth
9. Material Dimensions (ASTM F1859): 39.37 feet by 48 inches (12m by 1.22m), ≥ amount specified
10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required
11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
13. Smoke Density (ASTM E662/NFPA 258): NBS, 376 (flaming) and 256 (non-flaming)
14. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370
15. Burn Resistance: Resistant to cigarette and solder burns
16. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.92 Neolite wet 0.91 (not recommended for ramps)
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant.
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 14, Δ Lw 10dB (compare only Δ values)
21. Sound Generation: 67.2 dBA, 68.9 dBC and 20.9 Sones, Independently tested
22. Hardness (ASTM D2240):
   ≥ 85 is required
   Shore type “A”, 92 achieved
23. Static Load (ASTM F970):
   ≤ 0.005 inches with 250 lbs. is required
   Residual compression of 0.003 inches with 800 lbs.
24. Rolling Load Limit:
   ≤ 550 lbs. / sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389):
   ≤ 0.035 oz. (1.0g) is required
   1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.003 oz. (0.09g) weight loss
26. Elongation (ASTM D412):
   ≥ 300 lbs. per sq. inch is required
   Modulus @ 10% is 1,299.0 lbs. per sq. inch
27. Oil & Grease Resistance:
   No
   Avg. ∆E ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance
29. Light Resistance:
   Avg. ∆E ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance
30. Static Generation (AATCC 134):
   < 2000 Volts at 20% RH
31. Thermal Transmission (ASTM C518):
   R-value of 0.04
   Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
32. Cleaning:
   Per ASTM F710 and the nora® Installation Guide
   Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.
33. Shine:
   Higher shine achieved by buffing without any artificial topical applied coatings.
34. Stain Removal:
   noraplan® Iona 2.0 mm, Article 166B
   Type I
   Limited Wear Warranty: 5 years
   Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Heterogeneous rubber compound
6. Color: 24 standard colors
7. Surface: Textured
8. Back of Sheet: Double-sanded smooth
9. Material Dimensions (ASTM F1859): 49.21 feet by 48 inches (15m by 1.22m), ≥ amount specified
10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required
11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
13. Smoke Density (ASTM E662/NFPA 258): < 450 is required
14. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370
15. Burn Resistance: Resistant to cigarette and solder burns
16. Slip Resistance (ASTM D2047): ≥ 0.5 is required
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 11, ∆ Lw 8dB (compare only ∆ values)
21. Sound Generation: 67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
22. Hardness (ASTM D2240): ≥ 85 is required
23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
24. Rolling Load Limit: ≤ 450 lbs./sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
26. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required
27. Oil & Grease Resistance: No
29. Light Resistance (ASTM F1515): Avg. ∆E ≤ 8.0 is required
31. Thermal Transmission (ASTM C518): R-value of 0.04
32. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any
teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

33. Shine:

34. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturer's published cleaning and maintenance recommendations.

35. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

F. Rubber Sheet Floor Covering:

1. Product Name: noraplan® Iona 3.0 mm, Article 167B


3. Limited Wear Warranty: 5 years

4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Heterogeneous rubber compound

6. Color: 24 standard colors

7. Surface: Textured

8. Back of Sheet: Double-sanded smooth

9. Material Dimensions (ASTM F1859): 39.37 feet by 48 inches (12m by1.22m), ≥ amount specified

10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required 0.12 inches (3mm)

11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required

12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required NBSIR 75 950, 1.09

13. Smoke Density (ASTM E662/NFPA 258): < 450 is required NBS, 150 (flaming) and 246 (non-flaming)

14. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370

15. Burn Resistance: Resistant to cigarette and solder burns

16. Slip Resistance (ASTM D2047): ≥ 0.5 is required Static coefficient of friction, Neolite dry 0.97, Neolite wet 0.94 (not recommended for ramps)


18. VOC's: This flooring is GREENGUARD Gold Certified for Low VOC
19. Latex Allergies (ASTM D6499): Emissions, Blue Angel Certified and CA 01350 compliant
   Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 14, ∆ Lw 10dB (compare only ∆ values)
21. Sound Generation: 67.2 dBA, 68.9 dBC and 20.9 Sones, Independently tested
   ≥ 85 is required
23. Static Load (ASTM F970): Residual compression of 0.003 inches with 800 lbs.
   ≤ 0.005 inches with 250 lbs. is required
24. Rolling Load Limit: ≤ 550 lbs./sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.003
   oz. (0.09g) weight loss
26. Elongation (ASTM D412): Modulus @ 10% is 1,299.0 lbs. per sq. inch
   ≥ 300 lbs. per sq. inch is required
27. Oil & Grease Resistance: No
28. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
   Avg. ∆E ≤ 8.0 is required
29. Light Resistance (ASTM F1515): Easily achieved with all batches and regular maintenance
   Avg. ∆E ≤ 8.0 is required
31. Thermal Transmission (ASTM C518): R-value of 0.04
32. Cleaning: Cleaned and maintained effectively using water, nora® pads
   and a suitable cleaning machine, without the use of any
   factory and/or field-applied coatings. Also without using any
   chemicals that may be hazardous or containing any
   teratogenic, mutagenic or any other ingredients known to be
   carcinogenic. Refer to nora maintenance guides for product
   specific details.
33. Stain Removal: Samples of the product must be provided for stain removal
   testing by the owner. Sample size must be 24 inches by 24
   inches, pre-cleaned by manufacture per published
   recommendations. Samples must have no coatings, sealers,
   floor finish or other manually or mechanically applied finish on
   the surface of the product. Stain testing must consist of
   application of common healthcare related disinfectants and
   chemicals to include, but not limited to, Betadine, Methylene
   Blue, Silver Nitrate and alcohol based hand sanitizer.
   Duration of test period must be no less than one week.
   Removal of chemicals must be in accordance with
   manufacturers published cleaning and maintenance
   recommendations.
34. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide
   G. Rubber Sheet Floor Covering (acoustic):
      1. Product Name: noraplan® sentica acoustic, Article 1705
      2. ASTM Specification:
         ASTM F1860 Standard Specification for
         Rubber Sheet Floor Covering With Backing
      3. Limited Wear Warranty: Type I and Grade 2
         5 years
4. Material: nora® vulcanized rubber compound 915 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous rubber compound with a random scattered design

6. Color: 12 standard colors

7. Surface: Smooth

8. Back of Sheet: Double-sanded smooth

9. Material Dimensions (ASTM F1860): 39.37 feet by 48 inches (12m by 1.22m), ≥ amount specified

10. Thickness (ASTM F387): ± 0.008 inches (± 0.2mm) is required

11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required

12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required

13. Smoke Density (ASTM E662/NFPA 258): < 450 is required

14. CAN/ULC-S102.2: Surface Burning, FSC1 of 130 and SD of 525

15. Burn Resistance: Resistant to cigarette and solder burns

16. Slip Resistance (ASTM D2047): ≥ 0.5 is required


18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant.

19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

20. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 21, Δ Lw 18dB (compare only Δ values)

21. Sound Generation: 61.7 dBA, 66.5 dBC and 14.8 Sones, Independently tested

22. Hardness (ASTM D2240): ≥ 85 is required

23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required

24. Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic

25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required

26. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required

27. Oil & Grease Resistance: No

28. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required

29. Light Resistance: Avg. ΔE ≤ 8.0 is required

30. Static Generation (AATCC 134): < 2000 Volts at 20% RH

31. Thermal Transmission (ASTM C518): R-value of 0.20

32. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any
factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

33. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

34. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

35. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

H. Rubber Sheet Floor Covering:
   1. Product Name: noraplan® sentica 2.0 mm, Article 1700
   3. Limited Wear Warranty: 5 years
   4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition: Homogeneous rubber compound with a random scattered design
   6. Color: 38 standard colors
   7. Surface: Smooth
   8. Back of Sheet: Double-sanded smooth
   9. Material Dimensions (ASTM F1859): 49.21 feet by 48 inches (15m by 1.22m), ≥ amount specified
   10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required
   11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
   12. Flammability (E648/NFPA 253): NBSIR 75 950, 0.97
   13. Smoke Density (ASTM E662/NFPA 258): NBS, 196 (flaming) and 207 (non-flaming)
   14. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370
   15. Burn Resistance: Resistant to cigarette and solder burns
≥ 0.5 is required

Resistant to bacteria, fungi, and micro-organism activity

18. VOC’s:
This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

19. Latex Allergies (ASTM D6499):
Inhibition Elisa, results are below detection level

20. Sound Absorption (ASTM E2179/ISO 140):
Δ IIC 11, Δ Lw 8 dB (compare only Δ values)

21. Sound Generation:
67.9 dBA, 69.9 dBC and 22 Sones, Independently tested

22. Hardness (ASTM D2240):
≥ 85 is required

23. Static Load (ASTM F970):
≤ 0.005 inches with 250 lbs. is required

24. Rolling Load Limit:
≤ 450 lbs. / sq. inch, with no forklift traffic

25. Abrasion Resistance (ASTM D3389):
≤ 0.035 oz. (1.0g) is required

26. Elongation (ASTM D412):
≥ 300 lbs. per sq. inch is required

27. Oil & Grease Resistance:
≤ 0.035 oz. (1.0g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss

Avg. ΔE ≤ 8.0 is required

29. Light Resistance:
Avg. ΔE ≤ 8.0 is required

30. Static Generation (AATCC 134):
< 2000 Volts at 20% RH

31. Thermal Generation (AATCC 134):
R-value of 0.04

32. Cleaning:
Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

33. Shine:
Higher shine achieved by buffing without any artificial topical applied coatings.

34. Stain Removal:
Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturer’s published cleaning and maintenance recommendations.

35. Substrate Preparation:
Per ASTM F710 and the nora® Installation Guide
I. Rubber Sheet Floor Covering:
   1. Product Name: noraplan® sentica 3.0 mm, Article 1701
   2. ASTM Specification: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   3. Limited Wear Warranty: 5 years
   4. Material: Homogeneous rubber compound with a random scattered design
   5. Surface: Smooth
   6. Back of Sheet: Double-sanded smooth
   7. Material Dimensions (ASTM F1859): 39.37 feet by 48 inches (12m by 1.22m), ≥ amount specified
   8. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required
   9. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
   10. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
   11. Smoke Density (ASTM E662/NFPA 258): < 450 is required
   12. CAN/ULC-S102.2: Surface Burning, FSC1 of 125 and SD of 370
   13. Burn Resistance: Resistant to cigarette and solder burns
   14. Slip Resistance (ASTM D2047): ≥ 0.5 is required
   16. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
   17. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
   18. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 14, ∆ Lw 10dB (compare only ∆ values)
   19. Hardness (ASTM D2240): ≥ 85 is required
   20. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
   21. Rolling Load Limit: ≤ 550 lbs. / sq. inch, with no forklift traffic
   22. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
   23. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required
   24. Oil & Grease Resistance: No
   Avg. ∆E ≤ 8.0 is required  
   Easily achieved with all batches and regular maintenance  

29. Light Resistance:  
   Avg. ∆E ≤ 8.0 is required  
   Easily achieved with all batches and regular maintenance  

30. Static Generation (AATCC 134):  
   < 2000 Volts at 20% RH  

31. Thermal Transmission (ASTM C518):  
   R-value of 0.04  

32. Cleaning:  
   Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.  

33. Shine:  
   Higher shine achieved by buffing without any artificial topical applied coatings.  

34. Stain Removal:  
   Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.  

35. Substrate Preparation:  
   Per ASTM F710 and the nora® Installation Guide  

J. Rubber Sheet Floor Covering:  
1. Product Name:  
   noraplan® stone, Article 0149 & 1600  
2. ASTM Specification:  
   ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing  
3. Limited Wear Warranty:  
   5 years  
4. Material:  
   nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury  
5. Composition:  
   Homogeneous rubber compound with a random scattered design  
6. Color:  
   20 standard colors (Article 0149); 8 standard colors (Article 1600)  
7. Surface:  
   Slightly textured (Article 0149); Smooth (Article 1600)  
8. Back of Sheet:  
   Double-sanded smooth  
   49.21 feet by 48 inches (15m by 1.22m), ≥ amount specified  
10. Thickness (ASTM F386):  
    ± 0.006 inches (± 0.15mm) is required  
    0.08 inches (2mm)  
11. Dimensional Stability (ASTM F2199):  
    Meets requirements
12. Flammability (E648/NFPA 253):
   \( \leq 0.15\% \) in both directions is required
   NBSIR 75950, 0.97
   \( \geq 0.45 \) watts/sq. cm for Class 1 is required
   NBS, 196 (flaming) and 207 (non-flaming)
14. CAN/ULC-S102.2:
   Surface Burning, FSC1 of 125 and SD of 370
15. Burn Resistance:
   Resistant to cigarette and solder burns
   \( \geq 0.5 \) is required
   Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90
   (not recommended for ramps)
   Resistant to bacteria, fungi, and micro-organism activity
18. VOC’s:
   This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499):
   Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140):
   \( \Delta IIC 11, \Delta Lw 8dB \) (compare only \( \Delta \) values)
   67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
21. Sound Generation:
   Shore type “A”, 92
22. Hardness (ASTM D2240):
   \( \geq 85 \) is required
   Residual compression of 0.003 inches with 800 lbs.
23. Static Load (ASTM F970):
   \( \leq 0.005 \) inches with 250 lbs. is required
   \( \leq 450 \) lbs. / sq. inch, with no forklift traffic
24. Rolling Load Limit:
   \( \leq 0.005 \) inches with 250 lbs. is required
   1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss
25. Abrasion Resistance (ASTM D3389):
   \( \leq 0.035 \) oz. (1.0g) is required
   Modulus @ 10% is 913.1 lbs. per sq. inch
26. Elongation (ASTM D412):
   \( \geq 300 \) lbs. per sq. inch is required
   No
27. Heat Resistance (ASTM F1514):
   Avg. \( \Delta E \leq 8.0 \) is required
   \( \Delta E \) value is 0.04
28. Light Resistance:
   Avg. \( \Delta E \leq 8.0 \) is required
   \( \leq 2000 \) Volts at 20% RH
29. Oil & Grease Resistance:
   No
   Easily achieved with all batches and regular maintenance
31. Thermal Transmission (ASTM C518):
   R-value of 0.04
32. Cleaning:
   Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
33. Shine:
   Higher shine achieved by buffing without any artificial topical applied coatings.
34. Stain Removal:
   Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and
35. Substrate Preparation:

K. Rubber Sheet Floor Covering:

1. Product Name:

2. ASTM Specification:
   ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing

3. Limited Wear Warranty:

4. Material:

5. Composition:

6. Color:

7. Surface:

8. Back of Sheet:


10. Thickness (ASTM F386):
    ± 0.006 inches (± 0.15mm) is required

11. Dimensional Stability (ASTM F2199):
    ≤ 0.15% in both directions is required

12. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required

    < 450 is required

14. Burn Resistance:

15. Slip Resistance (ASTM D2047):
    ≥ 0.5 is required


17. VOC’s:

18. Latex Allergies (ASTM D6499):

19. Sound Absorption (ASTM E2179/ISO 140):

20. Hardness (ASTM D2240):
    ≥ 85 is required

21. Static Load (ASTM F970):
    ≤ 0.005 inches with 250 lbs. is required

22. Rolling Load Limit:
    ≤ 450 lbs. / sq. inch, with no forklift traffic

chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

Per ASTM F710 and the nora® Installation Guide

**noraplan® unita, Articles 1640 (granite chips) & 1650 (glitter granite chips)**

Type I

5 years

nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

Homogeneous rubber compound with a random dispersed glitter and/or granite chips

12 standard colors (Article 1640); 4 standard colors (Article 1650)

Smooth

Double-sanded smooth

49.21 feet by 48 inches (15m by 1.22m), ≥ amount specified

0.08 inches (2mm)

Meets requirements

NBSIR 75 950, 0.98

NBS, 210 (flaming) and 161 (non-flaming)

Resistant to cigarette and solder burns

Static coefficient of friction, Neolite dry 0.98, Neolite wet 0.94 (not recommended for ramps)

Resistant to bacteria, fungi, and micro-organism activity

This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

Inhibition Elisa, results are below detection level

Δ IIC 11, Δ Lw 9dB (compare only Δ values)

Shore type “A”, 92

Residual compression of 0.003 inches with 800 lbs.
23. Abrasion Resistance (ASTM D3389): 
   ≤ 0.035 oz. (1.0g) is required

24. Elongation (ASTM D412): 
   ≥ 300 lbs. per sq. inch is required

25. Oil & Grease Resistance:

   Avg. ∆E ≤ 8.0 is required

27. Light Resistance: 
   Avg. ∆E ≤ 8.0 is required

28. Static Generation (AATCC 134): 
   < 2000 Volts at 20% RH

29. Thermal Transmission (ASTM C518): 
   R-value of 0.04

30. Cleaning:
   Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

31. Stain Removal:
   Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

32. Substrate Preparation:
   Per ASTM F710 and the nora® Installation Guide

L. Rubber Sheet Floor Covering:
   1. Product Name:
   noraplan® valua 2.0 mm, Articles 172A & 174A
   Type I

   2. ASTM Specification:
      ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing

   3. Limited Wear Warranty: 
      5 years

   4. Material: 
      nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

   5. Composition:
      Homogeneous rubber compound with marbleized design

   6. Color: 
      8 standard colors (Article 172A); 24 standard colors (Article 174A)

   7. Surface: 
      Linear structured

   8. Back of Sheet: 
      Double-sanded smooth

      49.21 feet by 48 inches (15m by 1.22m), ≥ amount specified
10. Thickness (ASTM F386): ± 0.005 inches (± 0.127mm) is required. 0.08 inches (2mm) is required.
11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required. Meets requirements.
12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required. NBSIR 75 950, 0.98.
13. Smoke Density (ASTM E662/NFPA 258): < 450 is required. NBS, 134 (flaming) and 109 (non-flaming).
15. Slip Resistance (ASTM D2047): ≥ 0.5 is required. Static coefficient of friction, Rubber dry 0.97, Rubber wet 0.85 (not recommended for ramps).
17. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant.
18. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level.
21. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required. ≤ 450 lbs. / sq. inch, with no forklift traffic.
22. Rolling Load Limit: ≤ 0.035 oz. (1.0g) is required. 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.006 oz. (0.17g) weight loss.
23. Abrasion Resistance (ASTM D3389): ≥ 300 lbs. per sq. inch is required. Modulus @ 10% is 913.1 lbs. per sq. inch.
25. Oil & Grease Resistance: Easily achieved with all batches and regular maintenance.
27. Light Resistance: Avg. ΔE ≤ 8.0 is required. < 2000 Volts at 20% RH, achieved. R-value of 0.04.
29. Thermal Transmission (ASTM C518): Cleaned and maintained effectively without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
30. Cleaning: Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene...
33. Substrate Preparation:

M. Rubber Sheet Floor Covering:

1. Product Name:

2. ASTM Specification:
   ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing

3. Limited Wear Warranty:

4. Material:

5. Composition:

6. Color:

7. Surface:

8. Back of Sheet:


10. Thickness (ASTM F386):
    ± 0.006 inches (± 0.15mm) is required

11. Dimensional Stability (ASTM F2199):
    ≤ 0.15% in both directions is required

12. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required

    < 450 is required

14. Burn Resistance:

15. Slip Resistance (ASTM D2047):
    ≥ 0.5 is required


17. VOC’s:

18. Latex Allergies (ASTM D6499):

19. Sound Absorption (ISO 140):
    ∆ Lw 10dB (compare only ∆ values)

20. Hardness (ASTM D2240):
    ≥ 85 is required

21. Static Load (ASTM F970):
    ≤ 0.005 inches with 250 lbs. is required

22. Rolling Load Limit:
    ≤ 550 lbs. / sq. inch, with no forklift traffic

23. Abrasion Resistance (ASTM D3389):
    ≤ 0.035 oz. (1.0g) is required

Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.

Per ASTM F710 and the nora® Installation Guide

noraplan® valua 3.0 mm, Articles 173A & 175A

Type I

5 years

nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

Homogeneous rubber compound with marbleized design

8 standard colors (Article 173A); 24 standard colors (Article 175A)

Linear structured

Double-sanded smooth

39.37 feet by 48 inches (12m by 1.22m), ≥ amount specified

0.12 inches (3.0mm)

Meets requirements

NBSIR 75 950, 1.08

NBS, 360 (flaming) and 203 (non-flaming)

Resistant to cigarette and solder burns

Static coefficient of friction, Rubber dry 0.97, Rubber wet 0.85 (not recommended for ramps)

Resistant to bacteria, fungi, and micro-organism activity

This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

Inhibition Elisa, results are below detection level

Residual compression of 0.003 inches with 800 lbs.

1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.006 oz. (0.17g) weight loss
24. Elongation (ASTM D412):
   ≥ 300 lbs. per sq. inch is required
   Modulus @ 10% is 1,299.0 lbs. per sq. inch
25. Oil & Grease Resistance:
   No
   Avg. ∆E ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance
27. Light Resistance:
   Avg. ∆E ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance
28. Static Generation (AATCC 134):
   < 2000 Volts at 20% RH
29. Thermal Transmission (ASTM C518):
   R-value of 0.04
30. Cleaning:
   Cleaned and maintained effectively without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
31. Shine:
   Higher shine achieved by buffing without any artificial topical applied coatings.
32. Stain Removal:
   Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.
33. Substrate Preparation:
   Per ASTM F710 and the nora® Installation Guide

2.7 RESILIENT SHEET FLOORING FOR COMMERCIAL TRAFFIC WITH PRE-APPLIED ADHESIVE

A. Rubber Sheet Floor Covering (nora® nTx):
   1. Product Name:
      noraplan® eco nTx, Article 158A
   2. ASTM Specification:
      Type I
   3. Limited Wear Warranty:
      5 years
   4. Material:
      nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition:
      Homogeneous rubber compound with a random scattered design
   6. Color:
      16 colors; minimum order quantities apply
   7. Surface:
      Smooth
   8. Back of Sheet:
      nora® nTx pre-applied adhesive
9. Material Dimensions (ASTM F1859): 48.55 feet by 48 inches (14.8m by 1.22m), ≥ amount specified
10. Thickness (ASTM F386): 0.08 inches (2.0mm) ± 0.006 inches (± 0.15mm) is required
11. Dimensional Stability (ASTM F2199): Meets requirements ≤ 0.15% in both directions is required
12. Flammability (E648/NFPA 253): NBSIR 75 950, 0.88 ≥ 0.45 watts/sq. cm for Class 1 is required
13. Smoke Density (ASTM E662/NFPA 258): NBS, 199 (flaming) and 120 (non-flaming) < 450 is required
14. CAN/ULC-S102.2: Surface Burning, FSC1 of 300 and SD of 1200
15. Burn Resistance: Resistant to cigarette and solder burns
16. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90 ≥ 0.5 is required
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 11, Δ Lw 8 dB (compare only Δ values) 67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
21. Sound Generation: Shore type “A”, 92
22. Hardness (ASTM D2240): ≥ 85 is required
23. Static Load (ASTM F970): Residual compression of 0.002 inches with 800 lbs. ≤ 0.005 inches with 250 lbs. is required
24. Rolling Load Limit: Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss ≤ 0.035 oz. (1.0g) is required
26. Elongation (ASTM D412): Modulus @ 10% is 913.1 lbs. per sq. inch is required ≥ 300 lbs. per sq. inch is required
27. Oil & Grease Resistance: No
28. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance Avg. ΔE ≤ 8.0 is required
29. Light Resistance: Easily achieved with all batches and regular maintenance Avg. ΔE ≤ 8.0 is required
30. Static Generation (AATCC 134): < 2000 Volts at 20% RH
31. Thermal Transmission (ASTM C518): R-value of 0.04
32. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
33. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
34. Stain Removal: Samples of the product must be provided for stain removal
35. Substrate Preparation:

B. Rubber Sheet Floor Covering (nora® nTx):

1. Product Name: noraplan environcare™ nTx 2.0 mm, Article 156A


3. Limited Wear Warranty: 5 years
   Limited Bond Warranty: 10 years

4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous rubber compound with a random scattered design

6. Color: 5 standard colors; additional colors available with minimum order

7. Surface: Smooth

8. Back of Sheet: nora® nTx pre-applied adhesive

9. Material Dimensions (ASTM F1859): 48.55 feet by 48 inches (14.8m by 1.22m), ≥ amount specified

10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required
   0.08 inches (2.0mm)

11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
   Meets requirements

12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
   NBSIR 75 950, 0.88

13. Smoke Density (ASTM E662/NFPA 258): < 450 is required
   NBS, 199 (flaming) and 120 (non-flaming)

14. CAN/ULC-S102.2: Surface Burning, FSC1 of 300 and SD of 1200
   Resistant to cigarette and solder burns

15. Burn Resistance: Resistant to cigarette and solder burns

16. Slip Resistance (ASTM D2047): ≥ 0.5 is required
   Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90 (not recommended for ramps)


18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

20. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 11, ∆ Lw 8 dB (compare only ∆ values)

21. Sound Generation: 67.9 dBA, 69.9 dBC and 22 Sones, Independently tested

22. Hardness (ASTM D2240): ≥ 85 is required

23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required

24. Rolling Load Limit: ≤ 0.005 inches with 250 lbs. is required

25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required

26. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required

27. Oil & Grease Resistance: No


29. Light Resistance: Avg. ∆E ≤ 8.0 is required

30. Static Generation (AATCC 134): < 2000 Volts at 20% RH

31. Thermal Transmission (ASTM C518): R-value of 0.04

32. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

33. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

34. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturer's published cleaning and maintenance recommendations.

35. Substrate Preparation: As per the nora® nTx Installation Guide

C. Rubber Sheet Floor Covering (nora® nTx):

1. Product Name: noraplan environcare™ nTx 3.0 mm, Article 157A

3. Limited Wear Warranty: 5 years
   Limited Bond Warranty: 10 years
4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Homogeneous rubber compound with a random scattered design
6. Color: 5 standard colors; additional colors available with minimum order
7. Surface: Smooth
8. Back of Sheet: nora® nTx pre-applied adhesive
9. Material Dimensions (ASTM F1859): 39.37 feet by 48 inches (11.8m by 1.22m), ≥ amount specified
10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required 0.12 inches (3.0mm)
11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required Meets requirements
12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required NBSIR 75 950, 0.82
13. Smoke Density (ASTM E662/NFPA 258): < 450 is required NBS, 282 (flaming) and 155 (non-flaming)
14. CAN/ULC-S102.2: Surface Burning, FSC1 of 200 and SD of 1850
15. Burn Resistance: Resistant to cigarette and solder burns
16. Slip Resistance (ASTM D2047): ≥ 0.5 is required Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.91 (not recommended for ramps)
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant Inhibition Elisa, results are below detection level
19. Latex Allergies (ASTM D6499): Δ IIC 14, Δ Lw 10 dB (compare only Δ values)
20. Sound Absorption (ASTM E2179/ISO 140): 67.2 dBA, 68.9 dBC and 20.9 Sones, Independently tested
21. Sound Generation: Shore type “A”, 92
22. Hardness (ASTM D2240): ≥ 85 is required Residual compression of 0.003 inches with 800 lbs.
23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
24. Rolling Load Limit: ≤ 550 lbs. / sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
26. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required Modulus @ 10% is 1,299.0 lbs. per sq. inch
27. Oil & Grease Resistance: No
28. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required Easily achieved with all batches and regular maintenance
29. Light Resistance: Avg. ΔE ≤ 8.0 is required Easily achieved with all batches and regular maintenance
30. Static Generation (AATCC 134): < 2000 Volts at 20% RH

31. Thermal Transmission (ASTM C518): R-value of 0.04

32. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

33. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

34. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

35. Substrate Preparation: As per the nora® nTxF Installation Guide

D. Rubber Sheet Floor Covering (nora® nTxF):

1. Product Name: noraplan® Iona nTxF 2.0 mm, Article 190B


3. Limited Wear Warranty: 5 years

4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Heterogeneous rubber compound

6. Color: 24 standard colors

7. Surface: Textured surface

8. Back of Sheet: nora® nTxF pre-applied adhesive

9. Material Dimensions (ASTM F1859): 48.55 feet by 48 inches (14.8m by 1.22m), ≥ amount specified

10. Thickness (ASTM F386): 0.08 inches (2mm)

11. Dimensional Stability (ASTM F2199): Meets requirements

12. Flammability (E648/NFPA 253): 0.93 watts/sq. cm

13. Smoke Density (ASTM E662/NFPA 258): 186 non-flaming; 152 flaming
14. CAN/ULC-S102.2: FSV125 SDV370
15. Burn Resistance: Resistant to cigarette and solder burns
16. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.92, Neolite wet 0.91 (not recommended for ramps)
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 11, Δ Lw 8dB (compare only Δ values)
21. Sound Generation: 67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
23. Static Load (ASTM F970): Residual compression of 0.003 inches with 800 lbs.
24. Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss
26. Elongation (ASTM D412): Modulus @ 10% is 913.1 lbs. per sq. inch
27. Oil & Grease Resistance: No
28. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required
29. Light Resistance (ASTM F1515): Avg. ΔE ≤ 8.0 is required
31. Thermal Transmission (ASTM C518): R-value of 0.04
32. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
33. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance
34. Substrate Preparation:
   As per the nora® nTx Installation Guide

E. Rubber Sheet Floor Covering (nora® nTx):
   1. Product Name:
      noraplan® lona nTx 3.0 mm, Article 191B
   2. ASTM Specification:
      noraplan® lona nTx 3.0 mm, Article 191B
         Type I
   3. Limited Wear Warranty:
      5 years
      10 years
   4. Material:
      nora® vulcanized rubber compound 913 with environmentally
      compatible color pigments that are free of toxic heavy metals
      like lead, cadmium or mercury
   5. Composition:
      Heterogeneous rubber compound
   6. Color:
      24 standard colors
   7. Surface:
      Textured surface
   8. Back of Sheet:
      nora® nTx pre-applied adhesive
      38.71 feet by 48 inches (11.8m by 1.22m), ≥ amount
      specified
   10. Thickness (ASTM F386):
      ± 0.006 inches (± 0.15mm) is required
   11. Dimensional Stability (ASTM F2199):
      ≤ 0.15% in both directions is required
   12. Flammability (E648/NFPA 253):
      ≥ 0.45 watts/sq. cm for Class 1 is required
      1.09 watts/sq.
      < 450 is required
      246 non-flaming, 150 flaming
   14. CAN/ULC-S102.2:
      FSC125  SDC370
   15. Burn Resistance:
      Resistant to cigarette and solder burns
      Static coefficient of friction, Neolite dry 0.97, Neolite wet 0.94
      (not recommended for ramps)
   17. Bacteria Resistance (ASTM E2180/ASTM
      G21):
      Resistant to bacteria, fungi and micro-organism activity
   18. VOC’s:
      This flooring is GREENGUARD Gold Certified for Low VOC
      Emissions, Blue Angel Certified and CA 01350 compliant
      Inhibition Elisa, results are below detection level
   19. Latex Allergies (ASTM D6499):
      Inhibition Elisa, results are below detection level
   20. Sound Absorption (ASTM E2179/ISO 140):
      Δ IIC 14, Δ Lw 10dB (compare only Δ values)
   21. Sound Generation:
      67.2 dBA, 68.9 dBC and 20.9 Sones, Independently tested
   22. Hardness (ASTM D2240):
      ≥ 85 is required
      Shore type “A”, 92
   23. Static Load (ASTM F970):
      ≤ 0.005 inches with 250 lbs. is required
   24. Rolling Load Limit:
      ≤ 550 lbs. / sq. inch, with no forklift traffic
   25. Abrasion Resistance (ASTM D3389):
      ≤ 0.035 oz. (1.0g) is required
      1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.003
      oz. (0.09g) weight loss
26. Elongation (ASTM D412):  
   ≥ 300 lbs. per sq. inch is required

27. Oil & Grease Resistance:  
   No

   Avg. ∆E ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance

29. Light Resistance (ASTM F1515):  
   Avg. ∆E ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance

30. Static Generation (AATCC 134/ANSI ESD S97.2):  
   < 2000 Volts at 20% RH

31. Thermal Transmission (ASTM C518):  
   R-value of 0.04

32. Cleaning:  
   Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

33. Stain Removal:  
   Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

34. Substrate Preparation:  
   As per the nora® nTx Installation Guide

F. Rubber Sheet Floor Covering (nora® nTx):  
   1. Product Name:  
      noraplan® sentica nTx 2.0 mm, Article 1633

   2. ASTM Specification:  
      ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing

   3. Limited Wear Warranty:  
      Limited Bond Warranty:  
      5 years  
      10 years

   4. Material:  
      nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

   5. Composition:  
      Homogeneous rubber compound with a random scattered design

   6. Color:  
      5 standard colors; additional colors available with minimum order

   7. Surface:  
      Smooth

   8. Back of Sheet:  
      nora® nTx pre-applied adhesive
9. Material Dimensions (ASTM F1859): 48.55 feet by 48 inches (14.8m by 1.22m), ≥ amount specified
10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required
11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
12. Flammability (E648/NFPA 253): NBSIR 75 950, 0.88
13. Smoke Density (ASTM E662/NFPA 258): NBS, 199 (flaming) and 120 (non-flaming)
14. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90 (not recommended for ramps)
15. Burn Resistance: Resistant to cigarette and solder burns
17. CAN/ULC-S102.2: Surface Burning, FSC1 of 300 and SD of 1200
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 11, ∆ Lw 8 dB (compare only ∆ values)
21. Sound Generation: 67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
23. Static Load (ASTM F970): Residual compression of 0.002 inches with 800 lbs.
24. Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss
26. Elongation (ASTM D412): Modulus @ 10% is 913.1 lbs. per sq. inch
27. Oil & Grease Resistance:
28. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
29. Light Resistance: Easily achieved with all batches and regular maintenance
30. Static Generation (AATCC 134): < 2000 Volts at 20% RH
31. Thermal Transmission (ASTM C518): R-value of 0.04
32. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
33. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
34. Stain Removal: Samples of the product must be provided for stain removal
testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

35. Substrate Preparation:

G. Rubber Sheet Floor Covering (nora® nTx):

1. Product Name:
   noraplan® sentica nTx 3.0 mm, Article 155A
2. ASTM Specification:
   ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing
3. Limited Wear Warranty:
   Limited Bond Warranty: 5 years 10 years
4. Material:
   nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition:
   Homogeneous rubber compound with a random scattered design
6. Color:
   5 standard colors; additional colors available with minimum order
7. Surface:
   Smooth
8. Back of Sheet:
   nora® nTx pre-applied adhesive
   38.71 feet by 48 inches (11.8m by 1.22m), ≥ amount specified
10. Thickness (ASTM F386):
    ± 0.006 inches (± 0.15mm) is required
11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
12. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required
    NBSIR 75 950, 0.82
    < 450 is required
    NFPA 258; NBS, 282 (flaming) and 155 (non-flaming)
14. CAN/ULC-S102.2:
    Surface Burning, FSC1 of 200 and SD of 1850
15. Burn Resistance:
    Resistant to cigarette and solder burns
    ≥ 0.5 is required
    Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.91 (not recommended for ramps)
    Resistant to bacteria, fungi, and micro-organism activity
18. VOC’s:
    This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499):
   Inhibition Elisa, results are below detection level

20. Sound Absorption (ASTM E2179/ISO 140):
   ∆ IIC 14, ∆ Lw 10 dB (compare only ∆ values)

21. Sound Generation:
   67.2 dBA, 68.9 dBC and 20.9 Sones, Independently tested

22. Hardness (ASTM D2240):
   Shore type “A”, 92 achieved, ≥ 85 is required

23. Static Load (ASTM F970):
   ≤ 0.005 inches with 250 lbs. is required

24. Rolling Load Limit:
   ≤ 0.005 inches with 250 lbs. is required

25. Abrasion Resistance (ASTM D3389):
   ≤ 0.035 oz. (1.0g) is required

26. Elongation (ASTM D412):
   ≥ 300 lbs. per sq. inch is required

27. Oil & Grease Resistance:
   ≤ 0.035 oz. (1.0g) is required

   Avg. ∆E ≤ 8.0 is required

29. Light Resistance:
   Avg. ∆E ≤ 8.0 is required

30. Static Generation (AATCC 134):
   < 2000 Volts at 20% RH, achieved

31. Thermal Transmission (ASTM C518):
   R-value of 0.04

32. Cleaning:
   Cleaned and maintained effectively using water, nora® pads
   and a suitable cleaning machine, without the use of any
   factory and/or field-applied coatings. Also without using any
   chemicals that may be hazardous or containing any
   teratogenic, mutagenic or any other ingredients known to be
   carcinogenic. Refer to nora maintenance guides for product
   specific details.

33. Shine:
   Higher shine achieved by buffing without any artificial topical
   applied coatings.

34. Stain Removal:
   Samples of the product must be provided for stain removal
   testing by the owner. Sample size must be 24 inches by 24
   inches, pre-cleaned by manufacture per published
   recommendations. Samples must have no coatings, sealers,
   floor finish or other manually or mechanically applied finish on
   the surface of the product. Stain testing must consist of
   application of common healthcare related disinfectants and
   chemicals to include, but not limited to, Betadine, Methylene
   Blue, Silver Nitrate and alcohol based hand sanitizer.
   Duration of test period must be no less than one week.
   Removal of chemicals must be in accordance with
   manufacturers published cleaning and maintenance
   recommendations.

35. Substrate Preparation:

H. Rubber Sheet Floor Covering (nora® nTx):
   1. Product Name:
   noraplan® stone nTx, Article 145A
   2. ASTM Specification:
   ASTM F1859 Standard Specification for
   Rubber Sheet Floor Covering Without
   Backing
   Type I
3. Limited Wear Warranty: 5 years  
    Limited Bond Warranty: 10 years  
4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury  
5. Composition: Homogeneous rubber compound with a non-directional scattered granulate design  
6. Color: 20 colors; minimum order quantities apply  
7. Surface: Slightly textured  
8. Back of Sheet: nora® nTx pre-applied adhesive  
9. Material Dimensions (ASTM F1859): 48.55 feet by 48 inches (14.8m by 1.22m), ≥ amount specified  
10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required  
11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required  
12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required  
13. Smoke Density (ASTM E662/NFPA 258): < 450 is required  
14. CAN/ULC-S102.2: Surface Burning, FSC1 of 300 and SD of 1200  
15. Burn Resistance: Resistant to cigarette and solder burns  
16. Slip Resistance (ASTM D2047): ≥ 0.5 is required  
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant  
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level  
20. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 11, Δ Lw 8 dB (compare only Δ values)  
21. Sound Generation: 67.9 dBA, 69.9 dBC and 22 Sones, Independently tested  
22. Hardness (ASTM D2240): ≥ 85 is required  
23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required  
24. Rolling Load Limit: Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic  
25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required  
26. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required  
27. Oil & Grease Resistance: No  
28. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required  
29. Light Resistance: Avg. ΔE ≤ 8.0 is required  
30. Static Generation (AATCC 134): < 2000 Volts at 20% RH
31. Thermal Transmission (ASTM C518): R-value of 0.04

32. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

33. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

34. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

35. Substrate Preparation: As per the nora® nTx Installation Guide

I. Rubber Sheet Floor Covering (nora® nTx):
   1. Product Name: noraplan® unita nTx, Articles 1698 & 1699
   3. Limited Wear Warranty: Limited Bond Warranty: 5 years 10 years
   4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition: Homogeneous rubber compound with a random dispersed glitter and or granite chips
   6. Color: 12 colors (Article 1698); 4 colors (1699); minimum order quantities apply
   7. Surface: Smooth
   8. Back of Sheet: nora® nTx pre-applied adhesive
   9. Material Dimensions (ASTM F1859): 48.55 feet by 48 inches (14.8m by 1.22m), ≥ amount specified
   10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required 0.08 inches (2.0mm)
   11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required Meets requirements
   12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required NBSIR 75 950, 0.88
13. Smoke Density (ASTM E662/NFPA 258): NBS, 199 (flaming) and 120 (non-flaming) < 450 is required
14. Burn Resistance: Resistant to cigarette and solder burns
15. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90 (not recommended for ramps) ≥ 0.5 is required
17. VOC's: VOC's: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
18. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
19. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 11, Δ Lw 9dB (compare only Δ values)
20. Hardness (ASTM D2240): Shore type “A”, 92 ≥ 85 is required
21. Static Load (ASTM F970): Residual compression of 0.003 inches with 800 lbs. is required ≤ 0.005 inches with 250 lbs. is required
22. Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic
23. Abrasion Resistance (ASTM D3389): 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.007 oz. (0.2g) weight loss ≤ 0.035 oz. (1.0g) is required
24. Elongation (ASTM D412): Modulus @ 10% is 913.1 lbs. per sq. inch ≥ 300 lbs. per sq. inch is required
25. Oil & Grease Resistance: No
26. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance Avg. ΔE ≤ 8.0 is required
27. Light Resistance: Easily achieved with all batches and regular maintenance Avg. ΔE ≤ 8.0 is required
29. Thermal Transmission (ASTM C518): R-value of 0.04
30. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
31. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturer's published cleaning and maintenance recommendations.
32. Substrate Preparation: As per the nora® nTx Installation Guide
J. Rubber Sheet Floor Covering (nora® nTx):

1. Product Name: noraplan® valua nTx 2.0 mm, Articles 111B & 113B

2. ASTM Specification:
   ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing

3. Limited Wear Warranty: 5 years
   Limited Bond Warranty: 10 years

4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous rubber compound with a random scattered design

6. Color: 8 colors (Article 111B); 24 colors (Article 113B); minimum order quantities apply

7. Surface: Smooth

8. Back of Sheet: nora® nTx pre-applied adhesive

9. Material Dimensions (ASTM F1859): 48.55 feet by 48 inches (14.8m by 1.22m), ≥ amount specified

10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required
    0.08 inches (2.0mm)

11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
    Meets requirements

12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
    NBSIR 75 950, 0.98

13. Smoke Density (ASTM E662/NFPA 258): < 450 is required
    NBS, 134 (flaming) and 109 (non-flaming)

14. Burn Resistance: Resistant to cigarette and solder burns

15. Slip Resistance (ASTM D2047): ≥ 0.5 is required
    Static coefficient of friction, Rubber dry 0.97, Rubber wet 0.85 (not recommended for ramps)


17. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

18. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

19. Sound Absorption (ISO 140): Δ Lw 8dB (compare only Δ values)

20. Hardness (ASTM D2240): ≥ 85 is required
    Shore type “A”, 92

21. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
    Residual compression of 0.002 inches with 800 lbs.

22. Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic

23. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
    1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.006 oz. (0.17g) weight loss

24. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required
    Modulus @ 10% is 913.1 lbs. per sq. inch

25. Oil & Grease Resistance: No
   Avg. ΔE ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance

27. Light Resistance:
   Avg. ΔE ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance

28. Static Generation (AATCC 134):
   < 2000 Volts at 20% RH

29. Thermal Transmission (ASTM C518):
   R-value of 0.04

30. Cleaning:
   Cleaned and maintained effectively without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

31. Shine:
   Higher shine achieved by buffing without any artificial topical applied coatings.

32. Stain Removal:
   Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

33. Substrate Preparation:

K. Rubber Sheet Floor Covering (nora® nTx):
   1. Product Name:
   noraplan® valua nTx 3.0 mm, Articles 112B & 114B

   2. ASTM Specification:
      ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing

   3. Limited Wear Warranty:
      Limited Bond Warranty:
      5 years
      10 years

   4. Material:
      Nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

   5. Composition:
      Homogeneous rubber compound with marbleized design

   6. Color:
      8 colors (Article 112B); 24 colors (Article 114B); minimum order quantities apply

   7. Surface:
      Linear structured

   8. Back of Sheet:
      Nora® nTx pre-applied adhesive

      38.71 feet by 48 inches (11.8m by 1.22m), ≥ amount specified

10. Thickness (ASTM F386):
    ± 0.006 inches (± 0.15mm) is required
    0.12 inches (3.0mm)

11. Dimensional Stability (ASTM F2199):
    Meets requirements
12. Flammability (E648/NFPA 253):
≤ 0.15% in both directions is required
≥ 0.45 watts/sq. cm for Class 1 is required

< 450 is required

14. Burn Resistance:
Resistant to cigarette and solder burns

15. Slip Resistance (ASTM D2047):
Static coefficient of friction, Rubber dry 0.97, Rubber wet 0.85
(not recommended for ramps)

Resistant to bacteria, fungi, and micro-organism activity

17. VOC’s:
This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

18. Latex Allergies (ASTM D6499):
Inhibition Elisa, results are below detection level

19. Sound Absorption (ISO 140):
Δ Lw 10dB (compare only Δ values)

20. Hardness (ASTM D2240):
≥ 85 is required
Shore type “A”, 92

21. Static Load (ASTM F970):
≤ 0.005 inches with 250 lbs. is required
Residual compression of 0.003 inches with 800 lbs.

22. Rolling Load Limit:
≤ 0.005 inches with 250 lbs. is required
≤ 550 lbs. / sq. inch, with no forklift traffic

23. Abrasion Resistance (ASTM D3389):
≤ 0.035 oz. (1.0g) is required
1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.006 oz. (0.17g) weight loss

24. Elongation (ASTM D412):
≥ 300 lbs. per sq. inch is required
Modulus @ 10% is 1,299.0 lbs. per sq. inch

25. Oil & Grease Resistance:
No

Avg. ΔE ≤ 8.0 is required
Easily achieved with all batches and regular maintenance

27. Light Resistance:
Avg. ΔE ≤ 8.0 is required
Easily achieved with all batches and regular maintenance

28. Static Generation (AATCC 134):
< 2000 Volts at 20% RH
R-value of 0.04

29. Thermal Transmission (ASTM C518):
Cleaned and maintained effectively without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

30. Cleaning:
Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance
33. Substrate Preparation: As per the nora® nTx Installation Guide

2.8 RESILIENT TILE FLOORING FOR SPECIAL FIRE REQUIREMENTS

A. Rubber Floor Tile (Egress):
   1. Product Name: norament® 920, Article 354
   2. ASTM Specification: Type IA and Grade 1
   3. Limited Wear Warranty: 10 years
   4. Material: nora® vulcanized rubber compound 920 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition: Homogeneous
   6. Color: 4 standard colors
   7. Surface: Round
   8. Back of Tile: Double-sanded smooth
   9. Material Size for Tile (ASTM F2055): 39.61 inches by 39.61 inches (1006mm by 1006mm)
   10. Squarness (ASTM F2055): Meets requirements
   11. Thickness (ASTM F386): 0.16 inches (4.0mm)
   12. Dimensional Stability (ASTM F2199): Meets requirements
   13. Flammability (E648/NFPA 253): NBSIR 75 950, 0.94
   14. Smoke Density (ASTM E662/NFPA 258): NBS, 272 (flaming) and 167 (non-flaming)
   15. Tunnel Test (ASTM E84): 15 (flame) and 300 (smoke)
   16. CAN/ULC-S102.2: Surface Burning, FSC1 of 5 and SD of 30, achieved
   17. Burn Resistance: Resistant to cigarette and solder burns
   18. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.85, Neolite wet 0.76 (not recommended for ramps)
   20. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant
   21. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
   22. Sound Absorption (ISO 140): ∆Lw 13 dB (compare only ∆ values)
   24. Static Load (ASTM F970): Residual compression of 0.005 inches with 800 lbs.
   25. Rolling Load Limit: ≤ 850 lbs. / sq. inch; for fork lift traffic nora® polyurethane
adhesive is required

   ≤ 0.035 oz. (1.0g) is required

27. Oil & Grease Resistance:
   Yes

   Easily achieved with all batches and regular maintenance
   Avg. ΔE ≤ 8.0 is required

29. Static Generation (AATCC 134):
   < 2000 Volts at 20% RH

30. Cleaning:
   Cleaned and maintained effectively using water, nora® pads
   and a suitable cleaning machine, without the use of any
   factory and/or field-applied coatings. Also without using any
   chemicals that may be hazardous or containing any
   teratogenic, mutagenic or any other ingredients known to be
   carcinogenic. Refer to nora maintenance guides for product
   specific details.

31. Shine:
   Higher shine achieved by buffing without any artificial topical
   applied coatings.

32. Stain Removal:
   Samples of the product must be provided for stain removal
   testing by the owner. Sample size should be ~ 1 m², pre-
   cleaned by manufacture per published recommendations.
   Samples must have no coatings, sealers, floor finish or other
   manually or mechanically applied finish on the surface of the
   product. Stain testing must consist of application of common
   healthcare related disinfectants and chemicals to include, but
   not limited to, Betadine, Methylene Blue, Silver Nitrate and
   alcohol based hand sanitizer. Duration of test period must be
   no less than one week. Removal of chemicals must be in
   accordance with manufacturers published cleaning and
   maintenance recommendations.

33. Substrate Preparation:
   Per ASTM F710 and the nora® Installation Guide

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

A. Rubber Floor Tile (Skate):

1. Product Name:
   norament® 992, Article 1955

2. ASTM Specification:
   ASTM F1344 Standard Specification for
   Rubber Floor Tile

3. Limited Wear Warranty:
   5 years

4. Material:
   nora® vulcanized rubber compound 992 with environmentally
   compatible color pigments that are free of toxic heavy metals
   like lead, cadmium or mercury

5. Composition:
   Heterogeneous rubber compound

6. Color:
   1 standard color

7. Surface:
   Hammered

8. Back of Tile:
   Double-sanded smooth

   ± 0.02 inch (± 0.5mm) is required
   39.45 inches by 39.45 inches (1002mm by 1002mm)

10. Squareness (ASTM F2055):
    ± 0.010 inches (± 0.254mm) is required
    Meets requirements
11. Thickness (ASTM F386): +0.015/-0.005 inches (+0.381/-0.127 mm) is required
   0.36 inches (9.0mm)

12. Dimensional Stability (ASTM F2199): ≤0.15% in both directions is required
    Meets requirements

13. Flammability (E648/NFPA 253): ≥0.45 watts/sq. cm for Class 1 is required
    NBSIR 75 950, 0.56

14. Smoke Density (ASTM E662/NFPA 258): <450 is required
    NBS, 289 (flaming) and 373 (non-flaming)

15. CAN/ULC-S102.2: Surface Burning, FSC1 of 75 and SD of 1000

16. Burn Resistance: Burn Resistance: Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047): ≥0.5 is required
    Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.93
    (not recommended for ramps)


19. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant

20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

21. Sound Absorption (ISO 140): ΔLw 17dB (compare only Δ values)

22. Hardness (ASTM D2240): ≥70 is required
    Shore type “A”, 77

23. Static Load (ASTM F970): ≤0.005 inches with 250 lbs. is required
    Residual compression of 0.004 inches with 800 lbs.

24. Rolling Load Limit: ≤850 lbs. / sq. inch;

25. Abrasion Resistance (ASTM D3389): ≤0.035 oz. (1.4g) is required
    1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.005 oz. (0.14g) weight loss

26. Elongation (ASTM D412): ≥300 lbs. per sq. inch is required
    Modulus @ 10% is 1076.9 lbs. per sq. inch

27. Oil & Grease Resistance: Yes

28. Heat Resistance (ASTM F1514): Avg. ΔE ≤8.0 is required
    Easily achieved with all batches and regular maintenance

29. Static Generation (AATCC 134): <2000 Volts at 20% RH

30. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

31. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

32. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~1 m2, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but
33. Substrate Preparation:

B. Rubber Floor Tile (Skate):

1. Product Name:
   **norament® 992 grano, Article 1955**

2. ASTM Specification:
   ASTM F1344 Standard Specification for Rubber Floor Tile

3. Limited Wear Warranty: 5 years

4. Material: nora® vulcanized rubber compound 992 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Heterogeneous rubber compound

6. Color: 6 standard colors

7. Surface: Hammered

8. Back of Tile: Double-sanded smooth

   ± 0.02 inch (± 0.5mm) is required

10. Squareness (ASTM F2055):
    ± 0.010 inches (± 0.254mm) is required

11. Thickness (ASTM F386):
    + 0.015/-0.005 inches (+ 0.381/- 0.127 mm) is required

12. Dimensional Stability (ASTM F2199):
    ≤ 0.15% in both directions is required

13. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required

    < 450 is required

15. CAN/ULC-S102.2:
    Surface Burning, FSC1 of 75 and SD of 1000

16. Burn Resistance:
    Burn Resistance: Resistant to cigarette and solder burns

17. Slip Resistance (ASTM D2047):
    ≥ 0.5 is required

    Resistant to bacteria, fungi, and micro-organism activity

19. VOC’s:
    This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant

20. Latex Allergies (ASTM D6499):
    Inhibition Elisa, results are below detection level

21. Sound Absorption (ISO 140):
    Δ Lw 17dB (compare only Δ values)

22. Hardness (ASTM D2240):
    ≥ 70 is required

23. Static Load (ASTM F970):
    ≤ 0.005 inches with 250 lbs. is required
    Residual compression of 0.004 inches with 800 lbs.
24. Rolling Load Limit: ≤ 850 lbs. / sq. inch

25. Abrasion Resistance (ASTM D3389):
   ≤ 0.035 oz. (1.0g) is required

26. Elongation (ASTM D412):
   ≥ 300 lbs. per sq. inch is required

27. Oil & Grease Resistance: Yes

   Avg. ∆E ≤ 8.0 is required

29. Static Generation (AATCC 134):
   < 2000 Volts at 20% RH

30. Cleaning:
   Cleaned and maintained effectively using water, noram® pads and
   a suitable cleaning machine, without the use of any factory and/or
   field-applied coatings. Also without using any chemicals that may
   be hazardous or containing any teratogenic, mutagenic or any other
   ingredients known to be carcinogenic. Refer to noram maintenance
   guides for product specific details.

31. Shine:
   Higher shine achieved by buffing without any artificial topical
   applied coatings.

32. Stain Removal:
   Samples of the product must be provided for stain removal
   testing by the owner. Sample size should be ~ 1 m2, pre-
   cleaned by manufacture per published recommendations.
   Samples must have no coatings, sealers, floor finish or other
   manually or mechanically applied finish on the surface of the
   product. Stain testing must consist of application of common
   healthcare related disinfectants and chemicals to include, but
   not limited to, Betadine, Methylene Blue, Silver Nitrate and
   alcohol based hand sanitizer. Duration of test period must be
   no less than one week. Removal of chemicals must be in
   accordance with manufacturers published cleaning and
   maintenance recommendations.

33. Substrate Preparation:
   Per ASTM F710 and the noram® Installation Guide

2.10 RESILIENT TILE FLOORING FOR PRE-INSTALLED RAISED ACCESS FLOORING, OR RELEASABLE

A. Rubber Floor Tile (RAF):
   1. Product Name:
      noram® grano, Article 1912
   2. ASTM Specification:
      ASTM F1344 Standard Specification for
      Rubber Floor Tile
      Type IB and Grade 2
   3. Limited Wear Warranty: 10 years
   4. Material:
      noram® vulcanized rubber compound 926 with environmentally
      compatible color pigments that are free of toxic heavy metals
      like lead, cadmium or mercury
   5. Composition:
      Homogeneous rubber compound with a random scattered design
   6. Color:
      5 standard colors
   7. Surface:
      Hammered
   8. Back of Tile:
      Double-sanded smooth
      ≥ 24 inches by 24 inches (609mm by 625mm), untrimmed
10. Thickness (ASTM F386): + 0.015/-0.005 inches (+ 0.381/- 0.127 mm) is required

11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required

12. Flammability (E648/NFPA 253): 
≥ 0.45 watts/sq. cm for Class 1 is required

13. Smoke Density (ASTM E662/NFPA 258): < 450 is required

14. CAN/ULC-S102.2: Surface Burning, FSC1 of 70 and SD of 470

15. Burn Resistance: Resistant to cigarette and solder burns

16. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.99, Neolite wet 0.95 (not recommended for ramps)


18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant

19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level

20. Sound Absorption (ASTM E2179/ISO 140): ∆ IIC 11, ∆ Lw 11 dB (compare only ∆ values)

21. Sound Generation: 66.3 dBA, 68.5 dBC and 19.6 Sones, Independently tested

22. Hardness (ASTM D2240): ≥ 70 is required

23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required

24. Rolling Load Limit: ≤ 850 lbs. / sq. inch; for fork lift traffic nora® polyurethane adhesive is required

25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required

26. Oil & Grease Resistance: Yes


28. Static Generation (AATCC 134): < 2000 Volts at 20% RH, achieved

29. Thermal Transmission (ASTM C518): R-value of -0.90

30. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

31. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

32. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m2, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the
product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

33. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

2.11 RESILIENT TILE FLOORING FOR ELECTROSTATIC DISSIPATIVE PROTECTION

A. Rubber Floor Tile (ESD):
   1. Product Name: norament® grano ed, Article 1880
   2. ASTM Specification:
      norament® grano ed, Article 1880
      Type IB and Grade 2
   3. Limited Wear Warranty: 10 years
   4. Material: nora® vulcanized rubber compound 928 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition: Homogeneous rubber compound with a random scattered design
   6. Color: 8 standard colors
   7. Surface: Hammered
   8. Back of Tile: Double-sanded smooth
      39.53 inches by 39.53 inches (1004mm by 1004mm)
   10. Squareness (ASTM F2055):
        Meets requirements
   11. Thickness (ASTM F386):
        0.16 inches (4mm)
   12. Dimensional Stability (ASTM F2199):
        Meets requirements
   13. Flammability (E648/NFPA 253):
        NBSIR 75 950, 0.58
        NBS, 418 (flaming) and 285 (non-flaming)
   15. Burn Resistance: Resistant to cigarette and solder burns
        Static coefficient of friction, Neolite dry 1.0, Neolite wet 0.90 (not recommended for ramps)
        Resistant to bacteria, fungi, and micro-organism activity
   18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant
   19. Latex Allergies (ASTM D6499):
        Inhibition Elisa, results are below detection level
   20. Sound Absorption (ISO 140):
        Δ Lw 15dB (compare only Δ values)
   21. Hardness (ASTM D2240):
        Shore type “A”, 84
≥ 70 is required

22. Static Load (ASTM F970):
   ≤ 0.005 inches with 250 lbs. is required

23. Rolling Load Limit: ≤ 0.005 inches with 250 lbs.

   ≤ 0.035 oz. (1.0g) is required
   1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.004 oz. (0.11g) weight loss

25. Oil & Grease Resistance: Yes

   Avg. ΔE ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance

27. Static Generation (ANSI ESD S97.2):
   ≤ 0.035 oz. (1.0g) is required
   ≤ 0.035 oz. (1.0g) weight loss

28. Decay Time (FTM 101 C 4046):
   < 0.25 (sec)

29. Conductivity (ASTM F150):
   10^6 < 10^9 (ohms)
   Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

30. Cleaning:
   Higher shine achieved by buffing without any artificial topical applied coatings.

31. Shine:
   Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m2, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

32. Stain Removal:
   Per ASTM F710 and the nora® Installation Guide

B. Rubber Floor Tile (ESD):
   1. Product Name:
      norament® grano ed, Article 1912
   2. ASTM Specification:
      ASTM F1344 Standard Specification for Rubber Floor Tile
   3. Limited Wear Warranty:
      10 years
      nora® vulcanized rubber compound 928 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   4. Material:
   5. Composition:
      Homogeneous rubber compound with a random scattered design
   6. Color:
      5 standard colors
   7. Surface:
      Hammered
   8. Back of Tile:
      Double-sanded smooth
   ≥ 24 inches by 24 inches (609mm by 609mm) is required
24.6 inches by 24.6 inches (625mm by 625mm), untrimmed

10. Thickness (ASTM F386): 
    + 0.015/-0.005 inches (+ 0.381/- 0.127 mm) is required
0.14 inches (3.5mm)

11. Dimensional Stability (ASTM F2199): 
    ≤ 0.15% in both directions is required
Meets requirements

12. Flammability (E648/NFPA 253): 
    ≥ 0.45 watts/sq. cm for Class 1 is required
NBSIR 75 950, 0.58

    < 450 is required
NBS, 418 (flaming) and 285 (non-flaming)

14. Burn Resistance: 
    Resistant to cigarette and solder burns

15. Slip Resistance (ASTM D2047): 
    ≥ 0.5 is required
Static coefficient of friction, Neolite dry 1.0, Neolite wet 0.90
(not recommended for ramps)

    Resistant to bacteria, fungi, and micro-organism activity

17. VOC’s: 
    This flooring is GREENGUARD Gold Certified for Low VOC
    Emissions and CA 01350 compliant.

18. Latex Allergies (ASTM D6499): 
    Inhibition Elisa, results are below detection level

19. Sound Absorption (ISO 140): 
    Δ Lw 15dB (compare only Δ values)
Shore type “A”, 84

20. Hardness (ASTM D2240): 
    ≥ 70 is required
Residual compression of 0.004 inches with 800 lbs.

21. Static Load (ASTM F970): 
    ≤ 0.005 inches with 250 lbs. is required
≤ 850 lbs. / sq. inch

22. Rolling Load Limit: 
    ≤ 0.005 inches with 250 lbs. is required
1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.004
oz. (0.11g) weight loss

23. Abrasion Resistance (ASTM D3389): 
    ≤ 0.035 oz. (1.0g) is required
Yes

24. Oil & Grease Resistance: 
    Easily achieved with all batches and regular maintenance

    Avg. ΔE ≤ 8.0 is required
< 20 Volts

26. Static Generation (ANSI ESD S97.2): 
    < 0.25 (sec)
< 20 Volts

27. Conductivity (ASTM F150): 
    10⁶ < 10⁹ (ohms)

28. Cleaning: 
    Cleaned and maintained effectively using water, nora® pads
    and a suitable cleaning machine, without the use of any
    factory and/or field-applied coatings. Also without using any
    chemicals that may be hazardous or containing any
    teratogenic, mutagenic or any other ingredients known to be
carcinogenic. Refer to nora maintenance guides for product
specific details.

30. Shine: 
    Higher shine achieved by buffing without any artificial topical
    applied coatings.

31. Stain Removal: 
    Samples of the product must be provided for stain removal
testing by the owner. Sample size should be ~ 1 m², pre-
cleaned by manufacture per published recommendations.
Samples must have no coatings, sealers, floor finish or other
manually or mechanically applied finish on the surface of the
product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

Per ASTM F710 and the nora® Installation Guide

32. Substrate Preparation:

C. Rubber Floor Tile (ESD):
1. Product Name:
2. ASTM Specification:
   ASTM F1344 Standard Specification for Rubber Floor Tile
3. Limited Wear Warranty: 5 years
4. Material: nora® vulcanized rubber compound 948 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Homogeneous rubber compound with a random scattered design
6. Color: 14 standard colors
7. Surface: Smooth
8. Back of Tile: Double-sanded smooth
   ± 0.018 (± 0.45mm) is required
   24.015 inches by 24.015 inches (610mm by 610mm)
10. Squaredness (ASTM F2055):
    ± 0.018 inches (± 0.45mm) is required
11. Thickness (ASTM F386):
    ± 0.005 inches (± 0.127mm) is required
    0.08 inches (2.0mm)
12. Dimensional Stability (ASTM F2199):
    ≤ 0.15% in both directions is required
    Meets requirements
13. Flammability (E648/NFPA 253):
    ≥ 0.45 watts/sq. cm for Class 1 is required
    NBSIR 75 950, 1.00
    < 450 is required
    NBS, 81 (flaming) and 122 (non-flaming)
15. CAN/ULC-S102.2:
    Surface Burning, FSC1 of 185 and SD of 1600
16. Burn Resistance:
    Resistant to cigarette and solder burns
17. Slip Resistance (ASTM D2047):
    ≥ 0.5 is required
    Static coefficient of friction, Neolite dry 0.92, Neolite wet 0.89 (not recommended for ramps)
    Resistant to bacteria, fungi, and micro-organism activity
19. VOC’s:
    This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant
20. Latex Allergies (ASTM D6499):
    Inhibition Elisa, results are below detection level
21. Sound Absorption (ISO 140):
    ∆ Lw 6dB (compare only ∆ values)
22. Hardness (ASTM D2240):
    ≥ 85 is required
    Shore type “A”, 92
23. Static Load (ASTM F970):
   \[ \leq 0.005 \text{ inches with 250 lbs. is required} \]
   Residual compression of 0.003 inches with 800 lbs.

24. Rolling Load Limit:
   \[ \leq 450 \text{ lbs. / sq. inch, with no forklift traffic} \]

25. Abrasion Resistance (ASTM D3389):
   \[ \leq 0.035 \text{ oz. (1.0g)} \text{ is required} \]
   1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.002 oz. (0.07g) weight loss

26. Elongation (ASTM D412):
   \[ \geq 300 \text{ lbs. per sq. inch is required} \]
   Modulus @ 10% is 1,196.7 lbs. per sq. inch

27. Oil & Grease Resistance:
   Yes

   \[ \text{Avg. } \Delta E \leq 8.0 \text{ is required} \]
   Easily achieved with all batches and regular maintenance

29. Light Resistance:
   \[ \text{Avg. } \Delta E \leq 8.0 \text{ is required} \]
   Easily achieved with all batches and regular maintenance

30. Static Generation (ANSI ESD S97.2):
   \[ < 20 \text{ Volts} \]

31. Decay Time (FTM 101 C 4046):
   \[ < 0.25 \text{ (sec)} \]

32. Conductivity (ASTM F150):
   \[ 10^6 < 10^9 \text{ (ohms)} \]

33. Thermal Transmission (ASTM C518):
   \[ \text{R-value 0.01} \]
   Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

34. Cleaning:

35. Shine:
   Higher shine achieved by buffing without any artificial topical applied coatings.

36. Stain Removal:
   Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacturer per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

37. Substrate Preparation:
   Per ASTM F710 and the nora® Installation Guide

D. Rubber Floor Tile (ESD):
1. Product Name:
   noraplan® sentica ed, Article 2702

2. ASTM Specification:
   ASTM F1344 Standard Specification for Rubber Floor Tile

3. Limited Wear Warranty:
   5 years
   nora® vulcanized rubber compound 948 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

   Type I and Grade 1
5. Composition: Homogeneous rubber compound with a random scattered design
6. Color: 12 standard colors
7. Surface: Smooth
8. Back of Tile: Double-sanded smooth
9. Material Dimensions (ASTM F2055): ± 0.018 (± 0.45mm) is required
   24.015 inches by 24.015 inches (610mm by 610mm)
10. Squareness (ASTM F2055): ± 0.018 inches (± 0.45mm) is required
11. Thickness (ASTM F386): ± 0.005 inches (± 0.127mm) is required
12. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required
13. Flammability (E648/NFPA 253): > 0.45 watts/sq. cm for Class 1 is required
   NBSIR 75 950, 1.00
14. Smoke Density (ASTM E662/NFPA 258): < 450 is required
   NBS, 81 (flaming) and 122 (non-flaming)
15. CAN/ULC-S102.2: Surface Burning, FSC1 of 185 and SD of 1600
16. Burn Resistance: Resistant to cigarette and solder burns
17. Slip Resistance (ASTM D2047): > 0.5 is required
   Static coefficient of friction, Neolite dry 0.92, Neolite wet 0.89
   (not recommended for ramps)
19. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC
   Emissions and CA 01350 compliant
20. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
21. Sound Absorption (ISO 140): Δ Lw 6dB (compare only Δ values)
22. Hardness (ASTM D2240): ≥ 85 is required
   Shore type “A”, 92
23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
   Residual compression of 0.003 inches with 800 lbs.
24. Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
   1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.002
   oz. (0.07g) weight loss
26. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required
   Modulus @ 10% is 1,196.7 lbs. per sq. inch
27. Oil & Grease Resistance: Yes
28. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
   Avg. ΔE ≤ 8.0 is required
29. Light Resistance: Easily achieved with all batches and regular maintenance
   Avg. ΔE ≤ 8.0 is required
30. Static Generation (ANSI ESD S97.2): < 20 Volts
31. Decay Time (FTM 101 C 4046): < 0.25 (sec)
32. Conductivity (ASTM F150): 10^5 < 10^9 (ohms)
33. Thermal Transmission (ASTM C518): R-value 0.01
34. Cleaning: Cleaned and maintained effectively using water, noras® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to noras maintenance guides for product specific details.

35. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

36. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

37. Substrate Preparation: Per ASTM F710 and the noras® Installation Guide

2.12 RESILIENT SHEET FLOORING FOR ELECTROSTATIC DISSIPATIVE PROTECTION

A. Rubber Sheet Flooring:

1. Product Name: noraplan environcare™ ed, Article 1390

2. ASTM Specification:
   ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing

3. Limited Wear Warranty: 5 years

4. Material: noras® vulcanized rubber compound 948 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous rubber compound with a random scattered design

6. Color: 14 standard colors

7. Surface: Smooth

8. Back of Sheet: Double-sanded smooth

9. Material Dimensions (ASTM F1859): 49.21 feet by 48 inches (15m by 1.22m), ≥ amount specified

10. Thickness (ASTM F386): ± 0.006 inches (± 0.15mm) is required 0.08 inches (2.0mm)

11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required Meets requirements

12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required NBSIR 75 950, 1.00

13. Smoke Density (ASTM E662/NFPA 258): < 450 is required NBS, 81 (flaming) and 122 (non-flaming)
14. CAN/ULC-S102.2: Surface Burning, FSC1 of 185 and SD of 1600
15. Burn Resistance: Resistant to cigarette and solder burns
16. Slip Resistance (ASTM D2047): Static coefficient of friction, Neolite dry 0.92, Neolite wet 0.89 (not recommended for ramps)
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ISO 140): $\Delta Lw 6\text{dB}$ (compare only $\Delta$ values)
21. Hardness (ASTM D2240): $\geq 85$ is required
22. Static Load (ASTM F970): Residual compression of 0.003 inches with 800 lbs. is required
23. Rolling Load Limit: $\leq 450$ lbs. / sq. inch, with no forklift traffic
24. Abrasion Resistance (ASTM D3389): $\leq 0.035$ oz. (1.0g) is required
25. Elongation (ASTM D412): Modulus @ 10% is 1,196.7 lbs. per sq. inch is required
26. Oil & Grease Resistance: Yes
27. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
28. Light Resistance: Easily achieved with all batches and regular maintenance
29. Static Generation (ANSI ESD S97.2): $< 20$ Volts
30. Decay Time (FTM 101 C 4046): $< 0.25$ (sec)
31. Conductivity (ASTM F150): $10^6 < 10^9$ (ohms)
32. Thermal Transmission (ASTM C518): R-value 0.01
33. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
34. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
35. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with
GUIDE SPECIFICATIONS IN CSI FORMAT: RESILIENT FLOORING 096500

manufacturers published cleaning and maintenance recommendations.
Per ASTM F710 and the nora® Installation Guide

36. Substrate Preparation:

B. Rubber Sheet Flooring (ESD):

1. Product Name: noraplan® sentica ed, Article 1702

2. ASTM Specification:
   - ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing

3. Limited Wear Warranty:

4. Material:
   - nora® vulcanized rubber compound 948 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   - Homogeneous rubber compound with a random scattered design

5. Color:
   - 12 standard colors

6. Surface:
   - Smooth

7. Back of Sheet:
   - Double-sanded smooth

   - 49.21 feet by 48 inches (15m by 1.22m), ≥ amount specified

9. Thickness (ASTM F386):
   - ± 0.006 inches (± 0.15mm) is required
   - 0.08 inches (2.0mm)

10. Dimensional Stability (ASTM F2199):
   - ≤ 0.15% in both directions is required
   - Meets requirements

11. Flammability (E648/NFPA 253):
   - ≥ 0.45 watts/sq. cm for Class 1 is required
   - NBSIR 75 950, 1.00

   - < 450 is required
   - NBS, 81 (flaming) and 122 (non-flaming)

13. CAN/ULC-S102.2:
   - Surface Burning, FSC1 of 185 and SD of 1600

14. Burn Resistance:
   - Resistant to cigarette and solder burns

15. Slip Resistance (ASTM D2047):
   - ≥ 0.5 is required
   - Static coefficient of friction, Neolite dry 0.92, Neolite wet 0.89 (not recommended for ramps)

   - Resistant to bacteria, fungi, and micro-organism activity

17. VOC’s:
   - This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant
   - Inhibition Elisa, results are below detection level
   - ∆ Lw 6dB (compare only ∆ values)
   - Shore type “A”, 92

18. Hardness (ASTM D2240):
   - ≥ 85 is required
   - Residual compression of 0.003 inches with 800 lbs.

19. Latex Allergies (ASTM D6499):
   - Inhibition Elisa, results are below detection level
   - Shore type “A”, 92

20. Sound Absorption (ISO 140):
   - Residual compression of 0.003 inches with 800 lbs.

   - ≤ 0.035 oz. (1.0g) is required
   - 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.002 oz. (0.07g) weight loss

22. Elongation (ASTM D412):
   - Modulus @ 10% is 1,196.7 lbs. per sq. inch
≥ 300 lbs. per sq. inch is required

26. Oil & Grease Resistance: Yes
27. Heat Resistance (ASTM F1514):
   Avg. ΔE ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance
28. Light Resistance:
   Avg. ΔE ≤ 8.0 is required
   Easily achieved with all batches and regular maintenance
29. Static Generation (ANSI ESD S97.2):
   < 20 Volts
30. Decay Time (FTM 101 C 4046):
   < 0.25 (sec)
31. Conductivity (ASTM F150):
   10^6 < 10^9 (ohms)
32. Thermal Transmission (ASTM C518):
   R-value 0.01
33. Cleaning:
   Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
34. Shine:
   Higher shine achieved by buffing without any artificial topical applied coatings.
35. Stain Removal:
   Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.
36. Substrate Preparation:
   Per ASTM F710 and the nora® Installation Guide

2.13 RESILIENT STAI RTREADS (ONE-PIECE NOSING TREAD AND RISER)

A. Rubber Stair Treads:
   1. Product Name:
      norament® grano stairreads, Articles 479 (4 foot), 468 (5 foot) and 469 (6 foot) (visually impaired strips available)
   2. ASTM Specification:
      ASTM F2169 Standard Specification for Resilient Stair Treads
   3. Limited Wear Warranty:
      10 years
   4. Material:
      nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
   5. Composition:
      Homogeneous rubber compound with a random scattered design
   6. Color:
      12 standard colors
   7. Surface:
      Hammered and smooth
8. Back of Stair Tread: Double-sanded smooth


- **Length:** 50.59 inches (1285mm), 63.54 inches (1614mm) and 78.89 inches (2004mm)
- **Depth:** 19.88 inches (505mm)
- **Height:** 1.77 inches (45mm)
- **Thickness:** 0.20 inches (5.0mm)

10. Flammability (E648/NFPA 253):

- ≥ 0.45 watts/sq. cm for Class 1 is required


- < 450 is required

12. CAN/ULC-S102.2:

- Surface Burning, FSC1 of 70 and SD of 470

13. Burn Resistance:

- Resistant to cigarette and solder burns


- ≥ 0.5 is required


- Resistant to bacteria, fungi, and micro-organism activity

16. VOC’s:

- This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant

17. Latex Allergies (ASTM D6499):

- Inhibition Elisa, results are below detection level

18. Hardness (ASTM D2240):

- ≥ 70 is required

19. Static Load (ASTM F970):

- ≤ 0.005 inches with 250 lbs. is required

20. Abrasion Resistance (ASTM D3389):

- ≤ 0.035 oz. (1.0g) is required

21. Oil & Grease Resistance:

- Yes


- Avg. ∆E ≤ 8.0 is required

23. Static Generation (AATCC 134):

- < 2000 Volts at 20% RH

24. Cleaning:

- Cleaned and maintained effectively using water, Nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to Nora maintenance guides for product specific details.

25. Shine:

- Higher shine achieved by buffing without any artificial topical applied coatings.

26. Stain Removal:

- Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer.
27. Substrate Preparation:
   Per ASTM F710 and the nora® Installation Guide

B. Rubber Stair Treads:
1. Product Name:
   norament® hammered stairtreads, Articles 479 (4 foot), 468 (5 foot) and 469 (6 foot) (visually impaired strips available)

2. ASTM Specification:
   ASTM F2169 Standard Specification for Resilient Stair Treads

3. Limited Wear Warranty:
   10 years

4. Material:
   nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition:
   Homogeneous

6. Color:
   5 standard colors

7. Surface:
   Hammered and smooth

8. Back of Stair Tread:
   Double-sanded smooth

   Length: 50.59 inches (1285mm), 63.54 inches (1614mm) and 78.89 inches (2004mm)
   Depth: 19.88 inches (505mm)
   Height: 1.77 inches (45mm)
   Thickness: 0.20 inches (5.0mm)

10. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
    NBSIR 75 950, 1.1

11. Smoke Density (ASTM E662/NFPA 258): < 450 is required
    NBS, 380 (flaming) and 230 (non-flaming)

12. Burn Resistance:
    Resistant to cigarette and solder burns

13. Slip Resistance (ASTM D2047): ≥ 0.5 is required
    Static coefficient of friction, Neolite dry 0.99, Neolite wet 0.95

    Resistant to bacteria, fungi, and micro-organism activity

15. VOC’s:
    This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant

16. Latex Allergies (ASTM D6499):
    Inhibition Elisa, results are below detection level

17. Hardness (ASTM D2240):
    ≥ 70 is required
    Shore type “A”, 82 achieved

18. Static Load (ASTM F970):
    ≤ 0.005 inches with 250 lbs. is required
    Residual compression of 0.005 inches with 800 lbs.

19. Abrasion Resistance (ASTM D3389):
    ≤ 0.035 oz. (1.0g) is required
    1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.006 oz. (0.16g) weight loss

20. Oil & Grease Resistance:
    No

    Easily achieved with all batches and regular maintenance
Avg. $\Delta E \leq 8.0$ is required


23. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

24. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

25. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

26. Substrate Preparation: Per ASTM F710 and the nora® Installation Guide

C. Rubber Stair Treads:

1. Product Name: norament® round stair treads, Articles 465 (4 foot), 466 (5 foot) and 467 (6 foot) (visually impaired strips available)


3. Limited Wear Warranty: 10 years

4. Material: nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Homogeneous

6. Color: 16 standard colors

7. Surface: Round and smooth

8. Back of Stair Tread: Double-sanded smooth


<table>
<thead>
<tr>
<th>Length</th>
<th>Depth</th>
<th>Height</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.59 inches (1285mm), 63.54 inches (1614mm) and 78.89 inches (2004mm)</td>
<td>19.88 inches (505mm)</td>
<td>1.77 inches (45mm)</td>
<td>0.18 inches (4.5mm)</td>
</tr>
</tbody>
</table>

10. Flammability (E648/NFPA 253): $\geq 0.45$ watts/sq. cm for Class 1 is required

11. Smoke Density (ASTM E662/NFPA 258): NBS, 380 (flaming) and 230 (non-flaming)
< 450 is required

12. Burn Resistance: Resistant to cigarette and solder burns

13. Slip Resistance (ASTM D2047): ≥ 0.5 is required


15. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant

16. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level


18. Static Load (ASTM F970): Residual compression of 0.005 inches with 800 lbs.

19. Abrasion Resistance (ASTM D3389): Abrasion Resistance: ASTM D3389, 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.005 oz. (0.14g) weight loss achieved, ≤ 0.035 oz. (1.0g) is required

20. Oil & Grease Resistance: No

21. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance

Avg. ΔE ≤ 8.0 is required

22. Static Generation (AATCC 134): < 2000 Volts at 20% RH

23. Cleaning: Cleaned and maintained effectively using water, norar® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to norar maintenance guides for product specific details.

24. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.

25. Stain Removal: Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

26. Substrate Preparation: Per ASTM F710 and the norar® Installation Guide

D. Rubber Stair Treads:

1. Product Name: norament® satura stair treads, Articles 479 (4 foot), 468 (5 foot) and 469 (6 foot) (visually impaired strips available)


Type TS, Class 2, can be Group 1 and/or 2 and Grade 2
3. Limited Wear Warranty: 10 years
4. Material: nora® vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury
5. Composition: Homogeneous rubber compound with a random scattered design
6. Color: 12 standard colors
7. Surface: Hammered and smooth
8. Back of Stair Tread: Double-sanded smooth
   - Length: 50.59 inches (1285mm), 63.54 inches (1614mm) and 78.89 inches (2004mm)
   - Depth: 19.88 inches (505mm)
   - Height: 1.77 inches (45mm)
   - Thickness: 0.20 inches (5.0mm)
10. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required
    NBSIR 75 950, 1.0
11. Smoke Density (ASTM E662/NFPA 258): < 450 is required
    NBS, 334 (flaming) and 168 (non-flaming)
12. CAN/ULC-S102.2: Surface Burning, FSC1 of 70 and SD of 470
13. Burn Resistance: Resistant to cigarette and solder burns
14. Slip Resistance (ASTM D2047): ≥ 0.5 is required
    Static coefficient of friction, Neolite dry 0.99, Neolite wet 0.95
16. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
17. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
18. Hardness (ASTM D2240): ≥ 70 is required
    Shore type “A”, 82 achieved,
19. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required
    Residual compression of 0.005 inches with 800 lbs.
20. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required
    1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.002 oz. (0.05g) weight loss
21. Oil & Grease Resistance: Yes
22. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
    Avg. ΔE ≤ 8.0 is required
24. Cleaning: Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.
25. Shine: Higher shine achieved by buffing without any artificial topical applied coatings.
26. Stain Removal:

Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

27. Substrate Preparation:

Per ASTM F710 and the nora® Installation Guide

E. Rubber Stair Treads (Egress):

1. Product Name:

norament® 920 stairtreads, Article 465 (visually impaired strips available)

2. ASTM Specification:

ASTM F2169 Standard Specification for Resilient Stair Treads

3. Limited Wear Warranty:

10 years

4. Material:

nora® vulcanized rubber compound 920 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition:

Homogeneous

6. Color:

4 standard colors

7. Surface:

Round and smooth

8. Back of Stair Tread:

Double-sanded smooth


<table>
<thead>
<tr>
<th>Length</th>
<th>50.59 inches (1285mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth</td>
<td>19.68 inches (500mm)</td>
</tr>
<tr>
<td>Height</td>
<td>1.77 inches (45mm)</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.18 inches (4.5mm)</td>
</tr>
</tbody>
</table>

10. Flammability (E648/NFPA 253):

≥ 0.45 watts/sq. cm for Class 1 is required

NBSIR 75 950, 0.94


< 450 is required

NBS, 272 (flaming) and 167 (non-flaming)

12. Tunnel Test (ASTM E84):

Class A, Flame 15 – Smoke 300

13. CAN/ULC-S102.2:

Surface Burning, FSC1 of 5 and SD of 30

14. Burn Resistance:

Resistant to cigarette and solder burns

15. Slip Resistance (ASTM D2047):

≥ 0.5 is required

Static coefficient of friction, Neolite dry 0.85, Neolite wet 0.76


Resistant to bacteria, fungi, and micro-organism activity

17. VOC’s:

This flooring is GREENGUARD Gold Certified for Low VOC Emissions and CA 01350 compliant

18. Latex Allergies (ASTM D6499):

Inhibition Elisa, results are below detection level
19. Hardness (ASTM D2240):
≥ 70 is required

20. Static Load (ASTM F970):
≤ 0.005 inches with 250 lbs. is required

≤ 0.035 oz. (1.0g) is required

22. Oil & Grease Resistance:
No

Avg. ΔE ≤ 8.0 is required

24. Static Generation (AATCC 134/ANSI ESD S97.2):
< 2000 Volts at 20% RH

25. Cleaning:
Cleaned and maintained effectively using water, nora® pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

26. Shine:
Higher shine achieved by buffing without any artificial topical applied coatings.

27. Stain Removal:
Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

28. Substrate Preparation:
Per ASTM F710 and the nora® Installation Guide

2.14 RUBBER STAIR ACCESSORIES

A. Rubber Bannister Trim:
1. Product Name:
2. ASTM Specification:
ASTM F1861 Standard Specification for Resilient Wall Base
3. Limited Wear Warranty:
1 year, Defect
4. Material:
nora® rubber compound 959 with abundant natural fillers and environmentally compatible color pigments
5. Composition:
Homogeneous rubber
6. Color:
35 standard colors
7. Surface:
Smooth
8. Back of Banister Trim:
Smooth
9. Material Dimensions:
Length 8.2 feet (2.5m)
Depth 0.7 inches (18mm)
Height 1.6 inches (41mm)
Thickness 0.35 inches (9mm)

10. Flammability (E648/NFPA 253):
≥ 0.45 watts/sq. cm for Class 1 is required

NBSIR 75 950, 1.0

< 450 is required

NBS, 147 (flaming) and 249 (non-flaming)

12. Substrate Preparation:
Per ASTM F710 and the nora® Installation Guide

B. Rubber Stair Nosings:

1. Product Name:
nora® T 5044 A/C stair nosing, Article 802, for flooring 0.8 inches (2mm) to 0.11 inches (2.7mm)
nora® T 5044 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 .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. ASTM Specification:
ASTM F1861 Standard Specification for Resilient Wall Base

Type TP - rubber, thermoplastic

3. Limited Wear Warranty: 1 year, Defect

4. Material:
nora® rubber compound 961 with abundant natural fillers and environmentally compatible color pigments

5. Composition:
Homogeneous rubber

6. Color:
5 standard colors

7. Surface:
Smooth

8. Back of Nosing:
Smooth

9. Material Dimensions:

Length 8.2 feet (2.5m) length
Depth T 5049 2.0 inches (50mm), T 5044 2.75 inches (70mm)
Thickness A/C 0.25 inches (6.5mm), E/F 0.31 inches (8mm)
Height T 5049 1.77 inches (45mm), T 5044 1.69 inches (43mm)

10. Flammability (E648/NFPA 253):
≥ 0.45 watts/sq. cm for Class 1 is required

NBSIR 75 950, 0.52

< 450 is required

NBS, 289 (flaming) and 273 (non-flaming)

12. Burn Resistance:
Resistant to cigarette and solder burns

≥ 0.5 is required

Static coefficient of friction, Neolite dry 0.95, Neolite wet 0.94

Resistant to bacteria, fungi, and micro-organism activity

15. Latex Allergies (ASTM D6499):
Inhibition Elisa, results are below detection level

16. Hardness (ASTM D2240):
Shore type “A”, 92

17. Oil & Grease Resistance:
No
18. Heat Resistance (ASTM F1514): Easily achieved with all batches and regular maintenance
   Avg. \( \Delta E \leq 8.0 \) is required

19. Static Generation (AATCC 134/ANSI ESD S97.2): \(< 2000 \text{ Volts at } 20\% \text{ RH} \)

20. Cleaning: Cleaned and maintained effectively using water, nora\textsuperscript{®} pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora maintenance guides for product specific details.

21. Stain Removal: Samples of the product shall be provided for stain removal testing by the owner. Sample size shall be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples shall have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing shall consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period shall be no less than one week. Removal of chemicals shall be in accordance with manufacturers published cleaning and maintenance recommendations.

22. Substrate Preparation: Per ASTM F710 and the nora\textsuperscript{®} Installation Guide

2.15 RESILIENT BASE AND ACCESSORIES

A. Rubber Wall Base:
   1. Product Name: nora\textsuperscript{®} sanitary base (S 3019 D), Article 817
   2. ASTM Specification:
      ASTM F1861 Standard Specification for Resilient Wall Base
   3. Limited Wear Warranty: 5 years
   4. Material: nora\textsuperscript{®} rubber compound 959 with abundant natural fillers and environmentally compatible color pigments
   5. Composition: Homogeneous rubber
   6. Color: 25 standard colors
   7. Surface: Smooth
   8. Material Dimensions:
      \[
      \begin{array}{l|l}
      \text{Length} & 32.81 \text{ feet (10m)} \\
      \text{Depth} & 1.97 \text{ inches (50mm)} \\
      \text{Height} & 5.98 \text{ inches (152mm)} \\
      \text{Thickness} & 0.13 \text{ inch (3.2mm)} \\
      \end{array}
      \]
   9. Flammability (E648/NFPA 253): NBSIR 75 950, 1.0
      \( \geq 0.45 \text{ watts/sq. cm for Class 1 is required} \)
   10. Smoke Density (ASTM E662/NFPA 258): NBS, 147 (flaming) and 249 (non-flaming)
      \(< 450 \text{ is required} \)
   11. Substrate Preparation: Per ASTM F710 and the nora\textsuperscript{®} Installation Guide
B. Rubber Wall Base:

1. Product Name: nora® wall base (S 1028 B), Article 820


3. Limited Wear Warranty: 5 years

4. Material: nora® rubber compound 999

5. Composition: Heterogeneous rubber

6. Color: 70 standard colors

7. Surface: Smooth

8. Material Dimensions:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Specification</th>
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<tbody>
<tr>
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<td>120 feet (36.6m)</td>
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<tr>
<td>Depth</td>
<td>0.5” (12.7mm)</td>
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<tr>
<td>Height</td>
<td>4 inch (102mm)</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.125 inch (3.175mm)</td>
</tr>
</tbody>
</table>

9. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required

10. Smoke Density (ASTM E662/NFPA 258): < 450 is required

11. Substrate Preparation: Per the nora® Installation Guide

PART 3 - GENERAL

3.1 GENERAL CONTRACTOR RESPONSIBILITIES

A. Supply a safe, climate controlled building and subfloor as detailed in the nora Installation Guide (available at www.nora.com/us)

B. A subfloor that meets the requirements of ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring is required, or as detailed in the nora Installation Guide or nora® nTx Installation Guide as appropriate.

C. A secure storage area that is fully enclosed, weather tight, and climate controlled between 63°F and 75°F and 40% to 60% ambient relative humidity (RH) for at least 48-hours prior and during the installation, so the flooring contractor can acclimate all materials.

D. An installation area that is fully enclosed, weather tight, and climate controlled between 63°F and 75°F and 40% to 60% ambient relative humidity (RH) for at least 48-hours prior, during, and 72-hours after installation (do not use gas fueled blowers). If this is not possible, contact the nora® Technical Department.

E. Areas with direct prolonged exposure to sunlight should be protected with the use of Low E glass doors, windows or facades that reduce the UV transmissions to less than 1%.

F. Areas of the flooring subjected to direct sunlight, for example through doors or windows, must be covered using blind, curtains, cardboard or similar materials for 24-hours before, during, and for a period of 72-hours after the installation to allow nora “wet” adhesives to cure. Do not allow traffic when using wet set adhesives for a minimum of 12-hours and prohibit rolling loads for 72-hours. When using nora® nTx or nora® dryfix 750, the flooring can be trafficked immediately with no restrictions. All flooring must be protected from damage during construction operations using Masonite, plywood or a similar product. Before laying the panels the flooring surface must be free of all debris. Lay panels so that they are edge to edge and tape the joints to prevent movement and debris entrapment. Inspect the flooring before covering and after removal for final acceptance.
G. Conduct post-installation cleaning after 72-hours for wet set adhesives. Conduct post-installation cleaning immediately for installations using nora dryfix 750 or nora nTx. Refer to the appropriate nora® Maintenance Guide for product specific details.

3.2 FLOORING CONTRACTOR RESPONSIBILITIES

A. Provide trained installers that have at least one of the following:
   1. Approved by nora systems, Inc. or INSTALL (International Standards & Training Alliance) certified for the requirements of the project.
   2. An effective installation manager to manage the project, installers, and ensure that all of the required procedures are followed as detailed in the nora Installation Guide (available at www.nora.com/us).

B. Follow all requirements in the appropriate nora Installation Guide or nora nTx Installation Guide.

END OF SECTION