

DIVISION 09 - FINISHES  
SECTION 096500 RESILIENT FLOORING

noraplan<sup>®</sup> sentica<sup>™</sup> 2.0 mm

This document is provided to assist in the preparation of a Project or Master Specification and has been formatted in accordance with the Construction Specifications Institute (CSI)'s MasterFormat<sup>®</sup>.

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 sheet flooring for commercial traffic.
  3. Resilient sheet flooring for commercial traffic with pre-applied adhesive.
  4. Resilient tile flooring for special fire requirements.
  5. Resilient tile flooring for extra heavy traffic, ice skate, and golf spike resistant.
  6. Resilient tile flooring for pre-installed raised access flooring, or releasable application.
  7. Resilient tile flooring for electrostatic dissipative protection.
  8. Resilient sheet flooring for electrostatic dissipative protection.
  9. Resilient stair treads (one-piece nosing, tread, and riser).
  10. Resilient stair accessories.
  11. Resilient wall base, sanitary base, and accessories.
  12. Substrate preparation.
- 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
- 2. American National Standards Institute (ANSI):
  - a. ANSI ESD S97.2              Floor Materials and Footwear – Voltage Measurement on a Person
- 3. ASTM International (ASTM):
  - a. ASTM C518                      Standard Test Method for Steady State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
  - 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
  - h. ASTM E648                      Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
  - 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 Underlayments to Receive Resilient Flooring
  - u. ASTM F1514                    Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color Change
  - v. ASTM F1515                    Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change
  - 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
  - cc. ASTM F2199 Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat
  - dd. ASTM F2753 Standard Practice to Evaluate the Effect of Dynamic Rolling Load over Resilient Floor Covering System
  - ee. ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings
  - ff. 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 10140-3 Measurement of sound insulation in buildings and of building elements
  - b. ISO 26987 Determination of staining and resistance to chemicals
6. National Fire Protection Association (NFPA):
- a. NFPA 253 Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Source
  - b. NFPA 258 Test Method for Specific Density of Smoke Generated by Solid Materials
7. Standards Council of Canada (SCC):
- a. CAN/ULC-S102.2 Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies

### 1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, installation instructions and maintenance guidelines 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 and accessories from one manufacturer to ensure 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 with a minimum of 4 years' experience with resilient flooring of type equivalent to those specified.
  - 1. It is recommended to have a minimum of one installer per working party with the ability to provide proof of current credentials at request.

2. Has obtained and maintained current credentials from manufacturer's training program.
3. Installers shall be able to exhibit proficient skills with flash cove detailing, both hot and cold-welding techniques, adhesives, specialty adhesive systems and seam cutting.
4. The installing parties shall provide a submittal of their skills in the form of mock-ups of the specified material. These mock-ups will be accepted as proof of their skills and benchmarking for the proposed project.

C. Sustainable Design Requirements:

1. ISO 14001 Environmental Management Systems certification.
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](http://www.nora.com).
3. Flooring surfaces that are easily cleaned and do not require coatings, stripping, or use of chemicals that may be hazardous to human health.
4. Supply all required products that are CA 01350 compliant.
5. Flooring that contains no polyvinyl chloride or phthalate plasticizers.
6. Flooring that contains no halogenated polymers.
7. 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: **noraplan® sentica™ 2.0 mm, Article 2700**

2.	ASTM Specification: ASTM F1344 Standard Specification for Rubber Floor Tile	Type I and Grade 1
3.	Limited Wear Warranty:	15 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): ± 0.018 inches (± 0.45mm) is required	Meets requirements
11.	Thickness (ASTM F386): ± 0.005 inches (± 0.127mm) is required	0.08 inches (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, 0.97
14.	Smoke Density (ASTM E662/NFPA 258): < 450 is required	NBS, 196 (flaming) and 207 (non-flaming)
15.	Surface Burning (CAN/ULC-S102.2):	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
18.	Bacteria Resistance (ASTM E2180/ASTM G21):	Resistant to bacteria, fungi, and micro-organism activity
19.	Indoor Air Quality:	Greenguard Gold Certified for low VOC emissions in compliance with CDPH 01350
20.	Carbon:	3rd party verified carbon neutral throughout their entire life cycle through the Interface Carbon Neutral Floors™ program. Learn more at <a href="http://www.interface.com/carbonneutral">www.interface.com/carbonneutral</a> .
21.	Latex Allergies (ASTM D6499):	Inhibition ELISA, results are below detection level
22.	Sound Absorption (ASTM E2179/ISO 10140-3):	Δ IIC 11, Δ Lw 8 dB (compare only Δ values)
23.	Sound Generation:	67.9 dBA, 69.9 dBC and 22 Sones, independently tested
24.	Hardness (ASTM D2240): ≥ 85 is required	Shore type "A", 92
25.	Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required	Residual compression of 0.003 inches with 800 lbs.

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|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26. Rolling Load Limit (ASTM F2753):                                    | ≤ 450 lbs. / sq. inch, with no forklift traffic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 27. Abrasion Resistance (ASTM D3389):<br>≤ 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 28. Elongation (ASTM D412):<br>≥ 300 lbs. per sq. inch is required      | Modulus @ 10% is 913.1 lbs. per sq. inch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 29. Oil & Grease Resistance (EN/ISO 26987):                             | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 30. Heat Resistance (ASTM F1514):<br>Avg. ΔE ≤ 8.0 is required          | Easily achieved with all batches and regular maintenance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 31. Light Resistance:<br>Avg. ΔE ≤ 8.0 is required                      | Easily achieved with all batches and regular maintenance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 32. Static Generation (AATCC 134):                                      | < 1000 Volts at 20% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 33. Thermal Transmission (ASTM C518):                                   | R-value of 0.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 34. 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 Guidelines for product specific details.                                                                                                                                                                                                                                                                                                                                          |
| 35. Shine:                                                              | Higher shine achieved by buffing without any artificial topical applied coatings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 36. 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. |
| 37. Substrate Preparation:                                              | Per ASTM F710 and the nora Installation Instructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## 2.5 RESILIENT SHEET FLOORING FOR COMMERCIAL TRAFFIC

### A. Rubber Sheet Floor Covering:

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|-------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 1. Product Name:                                                                                            | <b>noraplan® sentica™ 2.0 mm, Article 1700</b> |
| 2. ASTM Specification:<br>ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing | Type I                                         |
| 3. Limited Wear Warranty:                                                                                   | 15 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	0.08 inches (2mm)
11. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required	NBSIR 75 950, 0.97
12. Smoke Density (ASTM E662/NFPA 258): < 450 is required	NBS, 196 (flaming) and 207 (non-flaming)
13. Surface Burning (CAN/ULC-S102.2):	FSC1 of 125 and SD of 370
14. Burn Resistance:	Resistant to cigarette and solder burns
15. Slip Resistance (ASTM D2047): ≥ 0.5 is required	Static coefficient of friction, Neolite dry 0.93, Neolite wet 0.90
16. Bacteria Resistance (ASTM E2180/ASTM G21):	Resistant to bacteria, fungi, and micro-organism activity
17. Indoor Air Quality:	Greenguard Gold Certified for low VOC emissions in compliance with CDPH 01350
18. Carbon:	3rd party verified carbon neutral throughout their entire life cycle through the Interface Carbon Neutral Floors™ program. Learn more at <a href="http://www.interface.com/carbonneutral">www.interface.com/carbonneutral</a> .
19. Latex Allergies (ASTM D6499):	Inhibition ELISA, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 10140-3):	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	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 (ASTM F2753):	≤ 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, 0.008 oz. (0.24g) weight loss
26. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required	Modulus @ 10% is 913.1 lbs. per sq. inch
27. Oil & Grease Resistance (EN/ISO 26987):	No
28. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required	Easily achieved with all batches and regular maintenance

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|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29. Light Resistance:<br>Avg. $\Delta E \leq 8.0$ is required | Easily achieved with all batches and regular maintenance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 30. Static Generation (AATCC 134):                            | < 1000 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 Guidelines 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 Instructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## PART 3 - GENERAL

### 3.1 GENERAL CONTRACTOR RESPONSIBILITIES

- A. Supply a safe, climate-controlled building and subfloor as detailed in the nora Installation Instructions (available at [www.nora.com](http://www.nora.com))
- 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 Instructions or nora nTx Installation Instructions 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° 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™, 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 or nora nTx. Refer to the appropriate nora Maintenance Guidelines for product specific details.

### 3.2 FLOORING CONTRACTOR RESPONSIBILITIES

- A. Provide trained installers that have at least one of the following:
  - 1. Approved by specified manufacturer (nora systems, Inc.) or INSTALL (International Standards & Training Alliance) certified for the requirements of the project.
  - 2. It is recommended to have a minimum of one installer per working party with the ability to provide proof of current credentials at request.
  - 3. An effective installation manager to manage the project, installers, and ensure that all the required procedures are followed as detailed in the nora Installation Instructions (available at [www.nora.com](http://www.nora.com)).
- B. Follow all requirements in the appropriate nora Installation Instructions or nora nTx Installation Instructions.

### END OF SECTION

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