

# noraplan<sup>®</sup> logic

## Product Description:

A rubber floor covering manufactured by nora systems, Inc. that is approved by Lloyd's Register Quality Assurance to the Quality Assurance Management System Standard ISO 9001:2000. Also ISO 14001 Environmental Management Systems certified.

## Resilient tile flooring for commercial traffic

1. Product Name: noraplan<sup>®</sup> logic, Article 2230
2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Tile Size: 0.08 inches (2mm) thickness, 24 inches by 24 inches (610mm by 610mm)
6. Back of Tile: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 913 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required  $\geq 85$
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs.  $\leq 0.005$ "
11. Quality of Cut: ASTM F511  $\leq 0.005$ "
12. Squareness: ASTM F2055  $\leq 0.010$ "
13. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
14. PVC Free: Product shall contain no polyvinyl chloride
15. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss  $\leq 0.4$
16. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047,  $\geq 0.8$
17. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
18. Halogen Free: Product shall contain no halogens
19. Sound Absorption: 8 dB per ISO 140-8
20. Burn Resistance: Cigarette and solder burn resistance
21. Heat Resistance: Avg. Delta E  $< 8.0$  per ASTM F1514
22. Flammability: ASTM E648; NFPA 253; NBSIR 75 950,  $\geq 0.45$  watts per square centimeter, Class 1
23. Smoke Density: ASTM E662, NFPA 258, NBS smoke density,  $< 450$
24. Asbestos Free: Product shall contain no asbestos
25. Static Generation:  $< 2000$  Volts (2KV) at 20% RH as per AATCC 134
26. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
27. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
28. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings.
29. Installation System: Use only nora<sup>®</sup> pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
  - Step 1 – nora<sup>®</sup> membrane (see Installation Guide for requirements).
  - Step 2 – nora<sup>®</sup> primer (see Installation Guide for requirements).

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

For more information, please refer to the MSDS, Installation Guides and Guide Specifications available on [www.nora.com/us](http://www.nora.com/us).

## Resilient sheet flooring for commercial traffic

1. Product Name: noraplan® logic, Article 1230
2. Material: nora vulcanized rubber compound 913 with abundant natural fillers and environmentally compatible color pigments
3. Surface: Smooth
4. Color: As selected
5. Roll Size: 0.08 inches (2mm) thickness, 49.2 feet by 48 inches (15m by 1.22m)
6. Back of Roll: Smooth, double-sanded back
7. Composition: Homogeneous rubber compound 913 with a random scattered design
8. Limited Wear Warranty: 5 years
9. Hardness: ASTM D2240, Shore type A, required  $\geq 85$
10. Static Load: Per ASTM F970 Standard Test Method for Static Load Limit, residual compression, when tested with 800 lbs.  $\leq 0.005$ "
11. ISO 14001: Manufacturer shall be ISO 14001 Environmental Management Systems Certified
12. PVC Free: Product shall contain no polyvinyl chloride
13. Abrasion Resistance: Taber abrasion test, ASTM D3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss  $\leq 0.4$
14. Slip Resistance: Static coefficient of friction (James Test): ASTM D2047,  $\geq 0.8$
15. Bacteria Resistance: Product shall be resistant to bacteria, fungi, and micro-organism activity, according to ASTM E2180 and ASTM G21
16. Halogen Free: Product shall contain no halogens
17. Sound Absorption: 10 dB per ISO 140-8 and 42 IIC per ASTM E2179
18. Burn Resistance: Cigarette and solder burn resistance
19. Heat Resistance: Avg. Delta E  $< 8.0$  per ASTM F1514
20. Flammability: ASTM E648; NFPA 253; NBSIR 75 950,  $\geq 0.45$  watts per square centimeter, Class 1
21. Smoke Density: ASTM E662, NFPA 258, NBS smoke density,  $< 450$
22. Asbestos Free: Product shall contain no asbestos
23. Static Generation:  $< 2000$  Volts (2KV) at 20% RH as per AATCC 134
24. Non Hazardous: Flooring shall be made without any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic
25. Cleaning: Flooring surface shall have the ability to be cleaned and maintained without the use of any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Manufacturer shall make available a cleaning system that effectively cleans the flooring surface using water, cleaning pads and a suitable cleaning machine, without the use of factory and/or field-applied coatings.
26. Shine: Higher shine surfaces can be achieved by dry buffing without any artificial topical applied coatings
27. Installation System: Use only nora® pro install system products following the current nora Installation Guide that may consist of part or all of the following steps depending upon the substrate conditions and requirements of the specific project.
  - Step 1 – nora® membrane (see Installation Guide for requirements).
  - Step 2 – nora® primer (see Installation Guide for requirements).
  - Step 3 – nora® leveler (see Installation Guide for requirements).
  - Step 4 – nora® patch (see Installation Guide for requirements).
  - Step 5 – nora® adhesives, the flooring usage and substrate conditions will determine the appropriate adhesive. Contact your nora® representative for specific recommendations.

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For more information, please refer to the MSDS, Installation Guides and Guide Specifications available on [www.nora.com/us](http://www.nora.com/us).

*Dated: March 2012*