RUBBER FLOOR COVERINGS AND ACCESSORIES 2019
Innovative sustainability – Made in Germany

We are driven by the idea of creating extraordinary and individual floor solutions that can withstand the most diverse and highest load patterns. We have found in natural rubber the ideal material and properties that can meet this claim.

Rubber has the unique capacity to withstand heavy loading permanently without sacrificing quality. We are rightfully proud of our expertise in having perfected this product of nature. nora® floor coverings are slip resistant and flame retardant, exhibit outstanding ergonomic properties, and absorb footfall sounds. Moreover, they are free of plasticisers and do not need coatings. These points are highly appreciated by our customers in the most diverse fields.

Accordingly, nora® floor coverings can be found everywhere in the world, for instance in

- hospitals and nursing facilities. There they are used in highly sterile areas subject to the strictest hygiene requirements like operating theatres, but also to provide a cosy ambience in patient rooms.
- Airports, trains, and railway stations – areas that are frequented by millions of people every day and so must fulfil the highest requirements.
- Schools, universities, and nursery schools – institutes that prioritise a natural indoor climate and healthy indoor air.
- Office, administration, and industrial buildings that must comply with special regulations and standards.

Fulfilling our customers’ and partners’ requirements is a matter of course to us. We would like to give you our assurance that your decision in favour of nora® floor coverings is the right one: today, tomorrow, and thereafter. This is our claim, and we guarantee it!

In 2018, nora systems was acquired by Interface Inc., Atlanta (USA). Interface is the world’s largest manufacturer of modular carpet tiles for the commercial sector.

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Two product lines – boundless possibilities

Everyone aspires to individuality. Why should this claim stop at the floor covering? Our two product lines norament® and noraplan® form a perfectly practical synthesis of design, functionality, and environmental compatibility. We are therefore convinced that we can offer our customers the perfect solution for every need and creative idea. Get to know our product portfolio on the following pages, and learn more about how you can set highlights with nora® floor coverings and system solutions.
norament®

This classic rubber floor covering is a convincing combination of sustainable quality and outstanding functionality. Pressed under high pressure, the tiles present a very dense, sealed surface. This makes them extremely resistant to wear and supports fast and easy cleaning. The product portfolio includes four designs. From the classical pastille, norament® 926/825, which has been in service for decades at Frankfurt Airport, the hub of European air traffic. Up to norament® 926 arago which appears agile due to its marbling. norament® floor coverings are suitable for projects that must fulfil extreme requirements, e.g. in ice rinks or oil rigs.

noraplan®

noraplan® floor coverings are available in rolls or tiles with a great many designs and colours for virtually unlimited design potential. The product range consists of nine different designs. noraplan® valua is preferably used where a homely atmosphere is required, e.g. in patient rooms, old people’s homes but also representative areas. This is underscored by the living quality of its linear surface structure combined with the natural properties of rubber. Its functional properties make noraplan® floorings suitable for a wide range of needs. Excellent slip resistance and oil and grease resistant properties make noraplan® floorings a convincing solution in heavy duty areas.
Eco-labels, approvals, and Environmental Product Declarations

The Blue Angel

One of the world’s most famous and oldest eco-label, initiated by the Cabinet of Germany. This guarantees that products fulfil particularly stringent environmental, health, and performance requirements, including emission and constituent specifications.
Approval criteria: DE-UZ 120
www.blauer-engel.de
Awarded to: norament® 926 and noraplan® standard floorings

Greenguard Gold

Greenguard Gold Certification promotes the protection and safety of sensitive persons in regards to indoor air quality. Certified products fulfil stringent emission standards, affording an invaluable contribution to the quality of indoor air.
Approval criteria: UL 2818 Standard for Chemical Emissions for Building Materials
www.greenguard.org
Awarded to: All nora® floor coverings and nora® installation materials and nora® accessories

BRE “A+” Rating

The BRE rating assesses the environmental impact of products. The environmental profiles of similar products in a category are compared with each other and assessed. The best products in a comparison group are awarded the “A+” rating.
Approval criteria: BRE Global Methodology for Environmental Profiles of Construction Products.
www.bre.co.uk
Awarded to: noraplan® and noraplan® nTx standard floorings with “A+” rating

Austrian eco-label

The Austrian eco-label is awarded by the Austrian Ministry of Agriculture, Forestry, Environment, and Water Management. It guarantees environmentally friendly products and services. Certified floor coverings exert as small an impact as possible on the environment and health over their whole life cycle.
Approval criteria: UZ 56
www.umweltzeichen.at
Awarded to: norament® 926 and noraplan® standard floorings

M1

The Finnish test mark M1 is regarded as the highest certification for building products in the Scandinavian region. Besides stringent emission thresholds for total volatile organic compounds (TVOCs), the label also includes a sensory odour test.
Approval criteria: Finnish Classification of Indoor Environment 2008
www.rakennustieto.fi/index/english.html
Awarded to: norament® 926 and noraplan® standard floorings
Etiquetage

In France, building products are classified according to their potential for emissions. The object is to eliminate risks to the health of persons inside the building.

Approval criteria: French VOC label: Emissions dans l’air intérieur (Décret n° 2011-321)
www.developpement-durable.gouv.fr/Chapitre-I-Mode-d-emploi-de-l.html
Awarded to: nora® floor coverings, nora® installation materials and nora® accessories

Byggvarubedömningen

The Swedish institute Byggvarubedömningen assesses the sustainability of building products with respect to their emissions, constituents, and production process. The products are classified as “Recommended”, “Accepted”, or “To be Avoided”.

Approval criteria: Building Material Assessment Criteria
www.byggvarubedömningen.se
Awarded to: norament® 926 and noraplan® standard floorings are classified as “Recommended” in a majority of cases

EPDs from Institut Bauen und Umwelt e.V.

EPDs (Environmental Product Declarations) are issued on the basis of international standards. They document the ecological aspects of a product over its whole life cycle. An EPD is a neutral, but invaluable source of information in the choice of sustainable building products. All norament® and noraplan® floor coverings have been awarded EPDs by Institut für Bauen und Umwelt e.V. (IBU).
www.bau-umwelt.de

Indoor Air Comfort GOLD

The Eurofins certification Indoor Air Comfort GOLD combines emissions requirements with the most important European quality mark, in one certificate. With this international label, planners, building owners and architects can specifically use products that do not compromise indoor air by giving off impurities. It means that more purposefully selected products can be used that have been certified thanks to their low emission levels and their sustainable properties.

Building certifications

nora® rubber floor coverings, nora® accessories, and nora® installation materials can enhance the sustainability properties of buildings for DGNB (German Sustainable Building Council), LEED (Leadership in Energy and Environmental Design), BREEAM (BRE Environmental Assessment Method), and other certifications.

www.dgnb.de/de/
www.usgbc.org/leed
www.breeam.de/

Corporate certifications, memberships, and cooperation agreements
norament®, the pioneer among rubber floor coverings, represents absolute top quality and functionality. The standard square tile sizes of 1004 x 1004 mm are available in a wide range of colour and surface designs. Get to know our norament® product portfolio on the following pages, and feel free to call your personal contact with any questions you may have.
norament® 926/825

One-coloured, classic round pastille for use in extremely heavy (926) and heavy traffic areas (825).
norament® 926
Art. 926/354
∼1004 mm x 1004 mm
norament® profile connection dimension: E + U
Resists most oils and greases

These colours can also be delivered as:
Stairtread norament® 926, page 52

norament® 825
Art. 825/1902
∼501 mm x 501 mm
norament® profile connection dimension: D + U

= Price category

*Colour design by Sir Norman Foster
norament® 926 grano

A granular design rich in contrast with a hammerblow surface or a cubic structure for use in extremely heavy traffic areas.
**norament® 926 grano** - with a cubic-structure

- Art. 926 grano/1880
  - ∼1004 mm x 1004 mm
- norament® profile connection dimension: E + U
- Slip resistant R9

Resists most oils and greases

These colours can also be delivered as:

- Special flooring norament® 928 grano ed electrostatically dissipative, page 43
- Stair tread norament® 926 grano, page 53

**norament® 926 grano** (with a cubic-structure)

- Art. 926 grano/1870
  - ∼610 mm x 610 mm
- norament® profile connection dimension: E + U
- Slip resistant R10

Resists most oils and greases

- Special flooring norament® 928 grano ed electrostatically dissipative, page 43
- Stair tread norament® 926 grano, page 53

Also available as norament® 926 grano nTx, page 61

Note: More designs and information on norament® nTx can be found at www.nora.com or on request.

ECNU affiliated bilingual school, China
Tone-in-tone granular design with a hammerblow surface for use in extremely heavy traffic areas.
norament® 926 satura
Art. 926 satura/1880
~1004 mm x 1004 mm
nora® profile connection dimension: E + U
Resists most oils and greases

These colours can also be delivered as:

- Stairtread norament® 926 satura, page 54

Also available as norament® 926 satura nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request.
Flat, direction-oriented relief structure with fine grain design and modern marbling for maximum demands. No two tiles are the same – each square meter is totally unique.
norament® 926 arago

Art. 926 arago/3118

~1004 mm x 502 mm

-3.5 mm

nora® profile connection dimension: E + U

Resists most oils and greases

Order-related smaller formats can be cut for individual installation combinations without minimum quantity requirements from norament® 926 arago tiles with the standard dimensions of 1004 mm x 502 mm.

We supply tiles with chamfered edges on request such that the tile character of the installed floor covering is even more emphasized.

Variations in colour and design, even within one production batch, define the product's aesthetic character.

norament® 926 arago with chamfered edges

Art. 926 arago/3119

~998 mm x 497 mm

-3.5 mm

nora® profile connection dimension: E + U

Resists most oils and greases

Also available as norament® 926 arago nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request.
noraplan®

noraplan® floor coverings are available as sheet material or tiles, and offer an unlimited scope of design possibilities due to the variety of designs and colours. Learn more about the noraplan® product portfolio, the natural properties as well as the possible applications.
Rubber floor covering with a contrasting accent colour in an elegant design. The silk-matte, lightly structured surface adds visual depth to the filigree arrangement of contrasting colours and accents.
noraplan® lona

Art. 166B
width: ~1.22 m x 15.0 m

Art. 266B
width: ~610 mm x 610 mm

nora® profile connection dimension: A + U

Also available as noraplan® lona nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request. Minimum quantities required.
A changing base colour of harmoniously matched colour compositions in a smooth surface for heavy traffic areas.
These colours can also be delivered as:

- Special flooring noraplan® sentica ed electrostatically dissipative, page 44
- Special flooring noraplan® sentica acoustic footfall sound-absorbing 20 dB, page 47
- Also available as noraplan® sentica nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request.
A changing base colour consisting of three harmoniously matched colour components and characteristic granule inclusions in a smooth surface for heavy traffic areas.
These colours can also be delivered as:
- Special flooring noraplan® signa ed electrostatically dissipative, page 45
- Special flooring noraplan® signa acoustic footfall sound-absorbing 20 dB, page 48
- Also available as noraplan® signa nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request.
Imagine a floor covering that brings the beauty and comfort of the natural world indoors. A room that exudes the intuitive warmth, light and calm so hard to find in today’s busy world. Envision a perfect moment tailored just to you. Perhaps it’s a glimpse of blue sky out of your window. Or the glow of your living room, illuminated by morning light. Maybe it’s the hush of the ocean nearby. Imagine a flooring that makes you feel at home.

noraplan® valua - A variant of flowing vibrancy
Three plank sizes. Unlimited possibilities.

**Planks**

- Art. 272A
  - ∼610 mm x 205 mm
  - 36 m²
  - 4.50 m² in one carton
  - nora® profile connection dimension: A + U

- Art. 273A
  - ∼610 mm x 305 mm
  - 24 m²
  - 4.46 m² in one carton
  - nora® profile connection dimension: D + U

- Art. 274A
  - ∼1220 mm x 405 mm
  - 12 m²
  - 5.92 m² in one carton
  - nora® profile connection dimension: A + U

- Art. 275A
  - ∼610 mm x 205 mm
  - 24 m²
  - 3.00 m² in one carton
  - nora® profile connection dimension: D + U

- Art. 276A
  - ∼610 mm x 305 mm
  - 16 m²
  - 2.97 m² in one carton
  - nora® profile connection dimension: D + U

- Art. 277A
  - ∼1220 mm x 405 mm
  - 8 m²
  - 3.95 m² in one carton
  - nora® profile connection dimension: D + U

**Example installations**

Note: More designs and information on nora® nTx can be found at www.nora.com or on request. Minimum quantities required.

Deaconess Gateway Hospital, Newburgh, USA
noraplan® stone

Discreet, non-directional scatter design available in both reflection-breaking and smooth surfaces for heavy traffic areas.

noraplan® stone - smooth surface

Kinderhaus WaldSchatz Kita, Waldbronn, Germany © Klemens Ortmeyer

noraplan® valua - A restful variant of virtually plain colour

noraplan® stone - smooth surface

Also available as noraplan® stone nTx, page 61.

Note: More designs and information on nora® nTx can be found at www.nora.com or on request. Minimum quantities required.
noraplan® stone - reflection-breaking surface

These colours can also be delivered as:

- Special flooring noraplan® stone ed electrostatically dissipative, page 46
- Special flooring noraplan® stone acoustic football-sound-absorbing 20 dB, page 49
- Also available as noraplan® stone nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request.
Minimum quantities required.
noraplan® uni

One-coloured with a smooth surface for heavy traffic areas.
noraplan® uni

Art. 1461
~1.22 m x 12.0 m

Art. 2461
~610 mm x 610 mm
15 ~ 5.58 m² in one carton

nora® profile connection dimension: A + U

Also available as noraplan® uni nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request. Minimum quantities required.
A perfect combination of materials, comprising permanently resilient rubber and randomly dispersed granite chips with a smooth surface for heavy traffic areas. Available in two timeless designs.
noraplan® unita
Design with discretely dispersed granite chips

Art. 1640
∼1.22 m x 15.0 m

nora® profile connection dimension: A + U

Please note: Granite is a natural product. For this reason, slight colour deviations may occur in the stone even within the same batch.

Also available as noraplan® unita nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request. Minimum quantities required.
Smooth tone-in-tone granular design in a smooth surface for heavy traffic areas.
noraplan® eco

16

Art. 1490

∼1.22 m x 1.50 m

Art. 2490

∼610 mm x 610 mm

15 = 5.58 m² in one carton

nora® profile connection dimension: A + U

Also available as noraplan® eco nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request. Minimum quantities required.
Safety floor covering with increased slip resistance, TRRL Pendulum Test 36+ in the wet and RZ value 20.1. Slip resistance R11 according to DIN 51 130 and BGR 181 or GUV-R 181, excellent environmental compatibility confirmed by BRE “A+” rating.
noraplan® ultra grip
Design with discretely dispersed granite chips

Art. 1509
~2.0 mm

nora® profile connection dimension: A + U
Resists most oils and greases

Also available as noraplan® ultra grip nTx, page 61

Note: More designs and information on nora® nTx can be found at www.nora.com or on request. Minimum quantities required.
nora® Special floorings

We have developed our special floorings for areas subject to special technical standards and requirements. These include e.g. acoustic coverings with an impact sound improvement index of 20 dB, electrostatically dissipative or conductive qualities, or highly specialised solutions for ice rinks, golf facilities, and many more. Get to know the range of designs and variants on the following pages.
norament® 992/992 grano

For areas with extreme requirements (e.g. ice rinks, golf clubs, animal stables, etc.).

norament® 992
Round pastille

norament® 992
Art. 992/1956
~1002 mm x 1002 mm
nora® profile connection dimension: N
Please note price group black/coloured

Patinoire de Pailleron, France
norament® 992 grano
Hammerblow surface

norament® 992 grano
Art. 992 grano/1955
\[ \sim 1002 \text{ mm x } 1002 \text{ mm} \]

nora® profile connection dimension: N

SAP-Arena, Mannheim, Germany
norament® and noraplan® ec

Electrostatically conductive “ec” floorings for optimum ESD protection of electronic devices and equipment. Suitable for areas with a risk of explosions and fork-lift-truck areas (norament® 927 grano ec). Largely resistant to acids and alkalis (norament® 927 grano ec).

norament® 927 grano ec

norament® 927 grano ec

Art. 927 grano ec/1880

~1004 mm x 1004 mm

~3.5 mm

nora® profile connection dimension: E + U

noraplan® astro ec

noraplan® astro ec

Art. 166C

~1.22 m x 12.0 m

Art. 266C

~610 mm x 610 mm

15 pieces = 5.58 m² in one carton

~2.0 mm

nora® profile connection dimension: A + U
Electrostatically dissipative “ed” floorings for optimum ESD protection of electronic devices and equipment. Protect against electrical shock, resist most oils and greases and are suitable for forklift truck areas.

norament® 928 grano ed

Art. 928 grano ed/1880
∼1002 mm x 1002 mm
∼3.5 mm
nora® profile connection dimension: E + U

norament® 928 grano ed

Art. 928 grano ed/1911
∼610 mm x 610 mm
∼3.5 mm
noraplan® ed

Electrostatically dissipative “ed” floorings for optimum ESD protection of electronic devices and equipment. Protect against electrical shock, resist most oils and greases.

noraplan® sentica ed

Please note: The colours 6504, 6505 and 6508 are only recommended for areas with a low incidence of stains and dirt (e.g. not for OP theatres or intensively frequented areas).

Please note: noraplan® ed floorings must be treated with the nora® joint-sealing compound.
noraplan® signa ed

Art. 1390
~1.22 m x 15.0 m

Art. 2390
~610 mm x 610 mm
15 = 5.58 m² in one carton

noraplan® signa ed

Art. 1523
~1.22 m x 12.0 m

nora® profile connection dimension: D + U

Please note: noraplan® ed floorings must be treated with the nora® joint-sealing compound.
noraplan® stone ed - reflection-breaking surface

noraplan® stone ed - reflection-breaking surface

Art. 129

\[ \sim 1.22 \text{ m} \times 1.50 \text{ m} \]

Art. 229

\[ \sim 610 \text{ mm} \times 610 \text{ mm} \]

15 \[ \sim 5.58 \text{ m}^2 \] in one carton

noraplan® stone ed floorings must be treated with the nora® joint-sealing compound.

Please note: noraplan® ed floorings must be treated with the nora® joint-sealing compound.
noraplan® acoustic

For high footfall sound absorption with a footfall sound absorption improvement of 20 dB.

noraplan® sentica acoustic

noraplan® sentica acoustic

6505 6520 6521 6522

6508 6536 6513 6510

6530 6531 6516 6517

noraplan® sentica acoustic

Art. 1705

~1.22 m x 12.0 m

Please note: noraplan® acoustic floorings must be sealed with nora® hot welding rod.
noraplan® acoustic

For high footfall sound absorption with a footfall sound absorption improvement of 20 dB.

noraplan® signa acoustic

noraplan® signa acoustic

Art. 1420

≈ 1.22 m x 12.0 m

Please note: noraplan® acoustic floorings must be sealed with nora® hot welding rod.

Kindergarten Völklingen, Germany © arus gmbh willi latz I photographer: Norbert Miguletz
noraplan® stone acoustic · reflection-breaking surface

1146 1862 6604 1279

6605 6610 6607 6608

6613 6614 6615 6616

noraplan® stone acoustic · reflection-breaking surface

Art. 148

∼1.22 m x 12.0 m

∼1.6 mm ∼2.4 mm ∼4.0 mm

nora® profile connection dimension: F + U

Please note: noraplan® acoustic floorings must be sealed with nora® hot welding rod. 

nora® Special floorings | nora systems 49
nora® Stairwell solutions

Individual requirements for stairwells are best fulfilled from our extensive system programme, from the tailored norament® stairtread with integrated preformed stair nosing, riser, and tread to individual combinations of stair angles, stair nosings, and integrated safety stripes.

Our system range is rounded off with colour-matched skirting solutions, joint-sealing compounds, hot welding rods, and installation materials.
norament® stairtreads

Pre-shaped stair coverings consisting of stair nosing, riser and tread all in one piece for straight steps with right-angled edge. For extremely heavy traffic stairwell areas.

Stairtread norament® 926
One-coloured with classic round pastille, footfall sound absorption improvement of 12 dB
Stairtread norament® 926 grano
Granular design rich in contrast with a hammerblow surface, footfall sound absorption improvement of 12 dB

Stairtread norament® 926 grano
Art. 926 grano/479 – width 1285 mm
Art. 926 grano/468 – width 1614 mm
Art. 926 grano/469 – width 2004 mm
Stairtread norament® 926 satura
Tone-in-tone granular design with a hammerblow surface, footfall sound absorption improvement of 12 dB

Stairtread norament® 926 satura

Tone-in-tone granular design with a hammerblow surface, footfall sound absorption improvement of 12 dB

Art. 926 satura/479 – width 1 285 mm
Art. 926 satura/468 – width 1 614 mm
Art. 926 satura/469 – width 2 004 mm
norament® stairstreads with signal or safety stripes

norament® stairstreads can be in addition equipped with the following signal or safety stripes:

- Signal stripes, yellow, phosphorescent according to DIN 67 510, in a width of 2 cm, integrated into the tread area of the stair nosing.

- Signal stripes uni, in a width of 2, 3, 4 or 5 cm (5 cm only available with hammer blow surface) in the colours 0122, light grey, and 0895, signal yellow, integrated into the tread area and alternatively also in a width of 2 or 3 cm in the vertical part of the stair nosing.

- Safety stripes ultra grip for increased slip resistance in the width of 2, 3, 4 or 5 cm (5 cm only available with hammer blow surface) in the colours 6029, yellow, and 6014, grey, integrated into the tread area and alternatively in a width of 2 or 3 cm also in the vertical part of the stair nosing.

Signal and safety stripes in other widths and colours are available on request.
nora® stair accessories

Accessory range made of rubber matched to suit norament® and noraplan® floor coverings. Can also be used in combination with other types of floorings. nora® profiles are impact and shock-resistant, do not shrink, do not contain any plasticizers and retain their functional reliability long term.

nora® stair nosings

With plug-in lip for quick and easy installation on all types of staircases.

1 T 5049  2 T 5044
Minimum order quantity: 5 r.m.
Standard length: 2.5 r.m.
Delivery in 5 fixed lengths possible:
1.00/1.25/1.65/2.0/2.50 r.m.

3 TA 1203
Aluminium stair nosing for stairs made of norament® coverings
Delivery unit: 2.7 r.m.

nora® stair angles

For the smooth finishing of right-angled stairs to the wall and banister side.

4 TW 7005 U  5 TW 7006 U
6 TG 7003 U  7 TG 7004 U

Delivery unit: pieces

nora® skirting and stringer profile

8 S 1008 U
Multi-purpose skirting
Delivery unit: rolls of 10 r.m.
Connection profile for nora® stair angles “TW”

9 A 5013 U
For landings and ramps
Delivery unit: in units of 2.5 r.m.
Connection profile for nora® stair angles “TG”

nora® stair margin

For wall and banister side. Hammerblow surface with granular design.
Art. 819
~600 mm x 100 mm
Thickness 10 mm
Supplied as: pieces
nora® Stair accessories | nora systems

nora® stair angles TW 7005 U (inner angle)

Wall side
With same cross-section as adjoining skirting S 1008 U

nora® stair angles TW 7006 U (outer angle)

Wall side
With same cross-section as adjoining skirting S 1008 U

nora® stringer profile A 5013 U

nora® skirting S 1008 U

nora® stair angles TG 7003 U (inner angle)

nora® stair angles TG 7004 U (outer angle)

Banister side
With same cross-section as stringer A 5013 U

nora® stair nosings
Fixing with nora® stepfix 240 roll-type dry adhesive

nora® stair nosings
Fixing with contact adhesive

T 5044 A/C
For flooring thicknesses of 2.0 to 2.7 mm

T 5044 E/F
For flooring thicknesses of 3.5 to 4.0 mm

T 5049 A/C
For flooring thicknesses of 2.0 to 2.7 mm

T 5049 E/F
For flooring thicknesses of 3.5 to 4.0 mm

nora® stair margin

nora® stair nosings
Fixing with contact adhesive

TA 1203
For flooring thicknesses of 3.5 mm

T 5049 A/C
For flooring thicknesses of 2.0 to 2.7 mm

T 5049 E/F
For flooring thicknesses of 3.5 to 4.0 mm
nora® stepfix 240

Special roll-type dry adhesive

For quick installation of norament® stair treads, stairwell installations with nora® stair nosing T 5044 and nora® stair margin.

The cost and eco-conscious adhesive innovation. Suitable for new buildings and renovation.

Advantages: 3–5 times as quick, odourless, can be walked on immediately, economic, eco-compatible, and reliable thanks to excellent bonding performance.

Art. 907

nora® special range for stairwell areas

The special range offers profiles with different cross-sections for further applications. The profiles shown here are examples only. Further individual designs are available on request. Delivery units and minimum order quantities on request.

nora® stair nosings

T 5019/T 5033/T 5045/T 5005
nora® special range

nora® Stair accessories

nora® Stair nosings

Connection dimension

T 5033 A = 2.1 mm

T 5005 E = 3.7 mm

nora® Stair nosings

Connection dimension

T 5019 A = 2.1 mm
T 5019 C = 2.7 mm
T 5019 D = 3.1 mm
T 5019 E = 3.7 mm
T 5019 F = 4.1 mm
T 5019 H = 5.0 mm
nora® nTx
The new generation flooring system

nora® nTx is a new and unique technology for professional installers to lay nora® rubber flooring systems. Because the powerful adhesive is factory-fitted, nora® nTx is as simple as it is ingenious. In a few simple steps, the flooring can be cleanly and safely installed and used immediately. It can be laid on all common concrete or cement screed surfaces, as well as directly on top of existing floorings. Even high levels of residual moisture in the screed are no problem for nora® nTx.

nora also offers a comprehensive range of installation materials and tools to ensure clean and safe substrate preparation (see from page 62).

The advantages at a glance:

- **Reliable installation result**
  nora® nTx reduces installation problems: no bubbles, no residual indentations, no seams. Everything from a single source: 10-year-guarantee.*

- **Immediate usability**
  Avoid drying and waiting times. Installation is possible during ongoing operations, and the floor can be used immediately after installation.

- **High efficiency**
  The preparation of the floor and the installation of nora® nTx require only a few work steps – for more space in less time.

- **For all types of subfloors**
  nora® nTx is suitable for all common types of subfloors – ideal also for problematic subfloors and underfloor heating.

- **Use with residual moisture**
  Application in new buildings also possible with increased residual moisture in the subfloor.

- **Covering-over-covering installation**
  In the case of renovations, installation is possible directly over existing floor coverings in just a few steps.

* Valid for deliveries from 7/1/2017. 10 year warranty for the criteria given in our warranty conditions (to be requested at the address given, see Rear side).
Available designs with noraplan® nTx

noraplan® signa nTx

noraplan® sentica nTx

norament® 926 grano nTx

norament® 926 satura nTx

norament® 926 arago nTx

Please note: Further details on nora® nTx can be obtained at www.nora.com or on request.
nora® nTx consists of our noraplan® and norament® standard floor coverings, which are equipped with an adhesive backing. The adhesive is covered with a protective film. The glue – like our floor coverings – is rubber-based and particularly health-friendly. Specially developed installation materials and tools for nora® nTx provide functional safety and ensure the highest quality standards. In June of 2016, nora® nTx was awarded the “Plus X Award” in the “High Quality and Functionality” category.

The system configuration

With nora® nTx you can reduce installation time by up to 50% and can even carry out renovations during ongoing operations.

Installation problems like bubbles, residual indentations, or seams belong to the past.

The installation of nora® nTx is very easy and fast: roll out floor covering and cut, remove protective film, glue, roll on – finished.

Compared to conventional wet bonding, it is possible to avoid multiple work steps and thus error sources, for example the application of the adhesive, as well as drying and waiting times.

nora® nTx installation materials

nora® nTx installation materials have been developed specifically for the nora® nTx floor coverings. The perfect matching between each installation material and the nora® nTx floor coverings provides functional reliability and ensures the highest standards of quality. Moreover, all nora® nTx installation materials can be applied to subsurfaces with higher residual moisture levels.

nora® nTx 020
1C primer (Bonding agent)

nora® nTx tools

nora® nTx sanding disc incl nTx K3
Sanding disc for preparing substrates

nora® nTx K3
Sanding tool (fine)

nora® nTx K2
Sanding tool (coarse)

Art. 6684
Primer for improved adhesion

Art. 6685
Suitable sanding discs for the machines: Mambo, Columbus, and Orkan. Already fitted with sanding tool nTx K3.
NOTE Please specify the machine type in your order.

Art. 6686
Sanding tool for nTx sanding disc

Art. 6687
Sanding tool for nTx sanding disc
nora® one — a fully certified flooring system

nora® one provides the best possible solution for semi-wet bonding of rubber floor coverings. The combination of low-emission nora floors with suitable floor installation products and flooring installers specially trained by nora form a certified complete system.

This low-emission complete system is certified in line with Indoor Air Comfort GOLD. This eliminates harmful interactions between the separate elements. The individual components have also been awarded the Emicode EC1+ certificate.

nora also provides an extended warranty period of eight years on this coordinated complete system.

Your benefits at a glance

A reliable system
- The individual components have been tested as a system and optimally coordinated to function perfectly
- Qualified floor layers ensure high-quality flooring installation
- Avoid downtime, complaints and additional costs

A cooperative partnership
- nora systems is your reliable partner, providing everything you need from one source
- Support through all phases of your project
  • Tender and bid support
  • Creation of Installation Recommendations
  • Complete and transparent documentation of laying work
  • Advice on cleaning and maintenance

A secure investment
- Extended warranty period of eight years on the entire system
- Improved interior environment for long-term retention of property value

Healthy indoor air
- Low emissions
- No harmful interactions between the individual components
- Awarded Indoor Air Comfort Gold, Greenguard Gold and Emicode EC1+ certificates
Overview of system components

Certified complete system with extended warranty

Our system has been awarded Indoor Air Comfort Gold and Greenguard Gold certificates and achieved positive test results from Polymer Service GmbH Merseburg. This enables us to grant our customers an extended warranty period of eight years on the nora® one complete system.

Details of the certified products are available at www.nora.com or upon request.
A complete system from one source

The nora® one system — 1 Primer, 2 Leveling compound, 3 Adhesive, 4 nora® rubber floor covering

nora® one — Available products

We have the perfect floor installation products at hand for almost any subfloor. Choose a product from each of the following categories to create the ideal base. Please contact us if you have any questions.

### Primers:
- nora® PRP 101 — Special primer for absorbent subfloors Art. 6699
- nora® PRN 102 — Special primer for non-absorbent subfloors Art. 6700
- nora® DPM 100 — 2-C epoxy resin primer Art. 6701

### Leveling compounds:
- nora® L 1000 — High-performance self-leveling leveling compound Art. 6697
- nora® SF 1001 — Internal Repair Mortar Art. 6698
- nora® fibers — Fiber reinforcement for self-leveling leveling compound Art. 6654

### Adhesives:
- nora® AC 100 — Dispersion adhesive Art. 6694
- nora® ED 120 — Conductive fiber-reinforced dispersion adhesive Art. 6695
- nora® PU 102 — 2-C polyurethane adhesive Art. 6696
nora® accessories

Accessory range made of rubber matched to suit nora® floor coverings for convincing solutions both in visual and functional terms. The materials are impact- and shock-resistant, do not contain any plasticizers and retain their functional reliability long term.

nora® skirtings and skirting angles

Easy to clean, suitable for areas with stringent hygienic requirements.

1 SA 7002 Skirting

- 24°
- SA 7002 A
- 24°
- SA 7002 D
- 8°
- SA 7002 E

Suitable for Skirting S 3003

Art. 508
Delivery unit: as pieces
Connection dimensions:
A = 2.1 mm
D = 3.1 mm
E = 3.7 mm
*Further colours on request

2 S 3003 Skirting

- 24°
- S 3003 A
- 24°
- S 3003 D
- 8°
- S 3003 E

Matching with skirting angles SI 7001 and SA 7002.

Art. 726
Delivery unit: in rolls of 10 r.m.
Connection dimensions:
A = 2.1 mm
D = 3.1 mm
E = 3.7 mm
*Further colours on request

3 SI 7001 Skirting

- 24°
- SI 7001 A
- 24°
- SI 7001 D
- 8°
- SI 7001 E

Suitable for Skirting S 3003

Art. 507
Delivery unit: as pieces
Connection dimensions:
A = 2.1 mm
D = 3.1 mm
E = 3.7 mm
*Further colours on request

4 S 1024 U

- 59°
- S 1024 U

For areas with stringent requirements in terms of appearance. The permanently resilient sealing lip of S 1024 U reliably accommodates pastille heights of up to 1 mm. Also suitable as wall stinger with raised-access floors.

Art. 713
Delivery unit: in rolls of 10 r.m.
*Further colours on request

5 S 1023 U

- 127°
- S 1023 U

For areas with stringent requirements in terms of appearance. The permanently resilient sealing lip of S 1023 U reliably accommodates pastille heights of up to 1 mm. Also suitable as wall stinger with raised-access floors.

Art. 712
Delivery unit: in rolls of 10 r.m.
*Further colours on request

6 S 1008 U

- 35°
- S 1008 U

Multi-purpose skirting. Adjoining skirting for nora® stair angles “TW”

Art. 705
Delivery unit: in rolls of 10 r.m.
*Further colours on request
nora® cushioned-edge profile

H 9010
For optimum transition between the noraplan® floor coverings and the wall.
Delivery unit: 5 rolls of 10 m.
Art. 7731

Skirting, S 1023 U

Skirting, S 1024 U

Skirting, S 1008 U
nora® special range

The special range offers profiles with different cross-sections for further applications.

Delivery units and minimum order quantities on request.

The profiles shown here are examples only. Further individual designs are available on request.

**nora® skirting S 3014 N**
Special skirting for norament® 992 and norament® 992 grano.

**nora® skirting S 1013 U**
Skirting 10 cm high, also suitable for the use on other floor coverings.
Delivery unit in rolls of 10 m.

**nora® dry adhesives**

**nora® dryfix 750**
Dry adhesive supplied in rolls
For the permanent fixing of norament® and noraplant® floor coverings.
Suitable for new buildings and renovations. Advantages: 5 times as quick, can be walked on immediately, odorless, economic, eco-compatible and reliable.

Art. 6556

**nora® stepfix 240**
Dry adhesive supplied in rolls
For quick installation of norament® stair treads, stairwell installations with nora® stair nosing T 5044 and nora® step margin.

Art. 907

**nora® profix**
Dry adhesive tapes

**nora® profix 50**
For quick installation of skirting S 1023 U.

Art. 992

**nora® profix 90**
For quick installation of skirtings S 1024 U, S 3003 as well as for pedestal formation through wall nosings (chased edge profile).

Art. 993

---

**Skirtings, S 3003 A/S 3003 D**
Skirting inner angle, SA 7002 A/SA 7002 D/SI 7001 A/SI 7001 D

| 0892 | 7064 | 6509 | 6513 | 6517 | 6520 | 6523 | 7033 | 7044 | 7050 | 7065 |
| 2099 | 6504 | 6512 | 6516 | 6529 | 7031 | 7035 | 7051 | 7056 | 7066 | 7076 |
| 3382 | 6508 | 6509 | 6512 | 6516 | 6529 | 7031 | 7035 | 7051 | 7056 | 7066 |

**Skirtings, S 3003 E**
Skirting inner angle, SA 7002 E/SI 7001 E

| 5301 | 5304 | 5306 | 5317 | 5318 | 5321 | 5325 | 5329 |

**Joint sealing compound**

| 0007 | 1595 | 5106 | 5122 | S306 | 6444 | 6500 | 6524 | 7049 | 7065 |
| 0702 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 0702 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 0716/2953 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 0716/2953 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 0720 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 0720 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 0748 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 0866 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 0992 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 0994 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 1146/2351 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 1150/2351 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 1279 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 1359 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 1359 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 1579 | 2078 | 5107 | 5123 | 5310 | 6446 | 6507 | 6525 | 7050 | 7076 |
| 1582 | 2078 | 5107 | 5123 | 6126 | 6204 | 6446 | 6507 | 6525 | 7050 | 7076 | 7086 |

Skirtings, S 3003 D
Skirtings, S 3003 E

nora® install
nora® systems | nora® install
nora® dry adhesives
nora® special range
nora® skirting S 3014 N
Special skirting for norament® 992 and norament® 992 grano.
nora® skirting S 1013 U
Skirting 10 cm high, also suitable for the use on other floor coverings.
Delivery unit in rolls of 10 m.
nora® dry adhesives
nora® dryfix 750
Dry adhesive supplied in rolls
For the permanent fixing of norament® and noraplant® floor coverings.
Suitable for new buildings and renovations. Advantages: 5 times as quick, can be walked on immediately, odorless, economic, eco-compatible and reliable.

Art. 6556

nora® stepfix 240
Dry adhesive supplied in rolls
For quick installation of norament® stair treads, stairwell installations with nora® stair nosing T 5044 and nora® step margin.

Art. 907

nora® profix
Dry adhesive tapes
nora® profix 50
For quick installation of skirting S 1023 U.

Art. 992

nora® profix 90
For quick installation of skirtings S 1024 U, S 3003 as well as for pedestal formation through wall nosings (chased edge profile).

Art. 993
nora® hot welding rod for noraplan®

Can be delivered in all colours to match the noraplan® floor covering colours.

Because noraplan® floor coverings do not contain any plasticizers, there is no shrinkage after installation. This is why the floorings do not have to be sealed. Only noraplan® acoustic floorings have to be sealed with the nora® hot welding rod. For the other floorings, we recommend sealing the joints when the flooring has been installed on a moisture-sensitive subfloor, in rooms with continual and intensive wet cleaning, in areas with stringent hygiene requirements or for special requirements [e.g. in laboratories].

In operating theatres or on other small noraplan® surfaces the vertical joints of the skirtings are sealed with nora® joint sealing compound.

Art. 928
300 ml cartridge
1 disposable cartridge, sufficient for 20–25 r.m.

Please note: Joint cutter (art. no. 116950) and nora® liquid wax (art. no. 109914) may be ordered from our company.

nora® joint sealing compound

Since norament® and noraplan® floor coverings do not contain any plasticizers, there is no shrinkage after installation. This is why, with the exception of electrostatically dissipative noraplan® ed floorings, the floorings does not need to be sealed. It is, however, advisable to seal the joints in case of moisture-sensitive subfloors, in rooms permanently undergoing intensive wet cleaning or in areas with special hygienic requirements. For these special requirements, the sealing of all norament® and noraplan® floorings is suitable.

Art. 946
Round, Ø 4 mm, rolls of 100 r.m.
**nora® pads**

nora® pads are suitable for daily cleaning and intensive cleaning on extremely soiled nora® rubber floor coverings. Cleaning and polishing are mechanical processes – just with water and absolutely no chemicals at all. nora® pads can be used with most standard types of machine and are available in different sizes.

<table>
<thead>
<tr>
<th>Art. 6688</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>nora® pad 0 – 10”</strong></td>
<td></td>
</tr>
<tr>
<td><strong>nora® Pad 0</strong></td>
<td></td>
</tr>
<tr>
<td>for the cleaning with machines for structured noraplan® floor coverings and noraplan® uni, noraplan® unita as well as noraplan® ultra grip:</td>
<td></td>
</tr>
<tr>
<td>Ø 254 mm</td>
<td>delivery unit: 4 pieces in one carton</td>
</tr>
<tr>
<td>Ø 330 mm</td>
<td>delivery unit: 4 pieces in one carton</td>
</tr>
<tr>
<td>Ø 356 mm</td>
<td>delivery unit: 4 pieces in one carton</td>
</tr>
<tr>
<td>Ø 406 mm</td>
<td>delivery unit: 4 pieces in one carton</td>
</tr>
<tr>
<td>Ø 431 mm</td>
<td>delivery unit: 1 or 4 pieces in one carton</td>
</tr>
<tr>
<td>nora® pad 0 – 13”</td>
<td></td>
</tr>
<tr>
<td>nora® pad 0 – 14”</td>
<td></td>
</tr>
<tr>
<td>nora® pad 0 – 16”</td>
<td></td>
</tr>
<tr>
<td>nora® pad 0 – 17”</td>
<td></td>
</tr>
<tr>
<td>nora® pad 0 – 20”</td>
<td></td>
</tr>
</tbody>
</table>

For polishing cleaned floor coverings with a high speed machine for structured noraplan® floor coverings and noraplan® uni, noraplan® unita, and noraplan® ultra grip:

| Ø 508 mm | delivery unit: 1 or 4 pieces in one carton |

### Art. 6627

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>nora® pad 1 – 10”</strong></td>
</tr>
<tr>
<td><strong>nora® Pad 1</strong></td>
</tr>
<tr>
<td>for polishing cleaned floor coverings with a high speed machine for structured noraplan® floor coverings and noraplan® uni, noraplan® unita, and noraplan® ultra grip:</td>
</tr>
<tr>
<td>Ø 254 mm</td>
</tr>
<tr>
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<td>Ø 406 mm</td>
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<tr>
<td>Ø 431 mm</td>
</tr>
<tr>
<td>nora® pad 1 – 13”</td>
</tr>
<tr>
<td>nora® pad 1 – 14”</td>
</tr>
<tr>
<td>nora® pad 1 – 16”</td>
</tr>
<tr>
<td>nora® pad 1 – 17”</td>
</tr>
<tr>
<td>nora® pad 1 – 20”</td>
</tr>
</tbody>
</table>

For polishing cleaned floor coverings with a high speed machine for smooth norament® floor coverings and norament® floor coverings with hammerblow or cubic structure:

| Ø 508 mm | delivery unit: 1 or 4 pieces in one carton |

### Art. 6628

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>nora® Pad 2</strong></td>
</tr>
<tr>
<td>for intermediate and intensive cleaning with a single disk machine for smooth noraplan® floor coverings and norament® floor coverings with hammerblow or cubic structure:</td>
</tr>
<tr>
<td>Ø 431 mm</td>
</tr>
</tbody>
</table>

### Art. 6629

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>nora® Pad 3</strong></td>
</tr>
<tr>
<td>for intensive cleaning of heavily soiled and scratched floor coverings with a single disk machine for smooth noraplan® floor coverings and norament® floor coverings with hammerblow or cubic structure:</td>
</tr>
<tr>
<td>Ø 431 mm</td>
</tr>
</tbody>
</table>
Vibrant architecture inlays

Create inlays based on our templates or design compositions of your own imagination. At our inlay centre we can process your images, drawings or image files to create your own design. Our state-of-the-art ultrasound cutting machine cuts almost any motif into 100% matching pieces that can be laid without sealing the joints. To guarantee easy installation, we supply inlays up to a size of 1.2 x 1.6 metres, fully assembled and ready for laying. For large-sized inlays, we provide the floor layer with detailed laying plans.
There are no limits to individuality at nora®
## TECHNICAL DATA

### norament®

<table>
<thead>
<tr>
<th>Test method</th>
<th>Requirements</th>
<th>Average test results from running production</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE conformity</td>
<td>EN 14 041</td>
<td>Manufacturer: nora systems GmbH, D-69469 Weinheim</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>EN 10 456</td>
<td>$\lambda = 0.17 \text{ W/(m·K)}$</td>
</tr>
<tr>
<td>Dynamic coefficient of friction</td>
<td>EN 15 903</td>
<td>0.35</td>
</tr>
<tr>
<td>Reaction to fire</td>
<td>EN 13 501-1</td>
<td>Non-hazardous</td>
</tr>
<tr>
<td>Reaction to fire</td>
<td>EN 13 501-1</td>
<td>Non-hazardous</td>
</tr>
</tbody>
</table>

### Properties acc. to EN 1817/EN 12 199

<table>
<thead>
<tr>
<th>Thickness</th>
<th>EN ISO 24 346</th>
<th>Mean value $\pm 0.20 \text{ mm}$ according to EN 12 199</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 mm</td>
<td>$\pm 0.3 \text{ mm}$</td>
<td></td>
</tr>
<tr>
<td>9 mm</td>
<td>$\pm 0.3 \text{ mm}$</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensional stability</th>
<th>EN ISO 23 999</th>
<th>$\pm 0.4 %$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\pm 0.3 %$</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tear strength</th>
<th>ISO 34-1, method B, procedure A</th>
<th>Mean value $\geq 20 \text{ N/mm}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 N/mm</td>
<td>35 N/mm</td>
<td></td>
</tr>
<tr>
<td>40 N/mm</td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tear strength</th>
<th>EN 1399</th>
<th>Procedure A (torn out) $\geq$ level 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procedure B (burning) $\geq$ level 3</td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Flexibility</th>
<th>EN ISO 24 344, procedure A</th>
<th>Wandel diameter 20 mm, no fissuring</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hardness</th>
<th>EN ISO 7619</th>
<th>$\geq 70$ Shore A (EN 12 199)</th>
</tr>
</thead>
<tbody>
<tr>
<td>82 Shore A</td>
<td></td>
<td></td>
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<tr>
<td>87 Shore A</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Residual indentation at 5 N load</th>
<th>EN ISO 24 343</th>
<th>Mean value $\leq 0.25 \text{ mm}$ at thickness $\geq 3.0 \text{ mm}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\leq 0.20 \text{ mm}$ at thickness $&lt; 3.0 \text{ mm}$</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Colour fastness to artificial light</th>
<th>EN ISO 105-B02, procedure 3, test conditions 4-1-a</th>
<th>At least level 4 on the blue scale; $\geq$ level 3 on the grey scale ($\leq 50 \text{ MJ/m}^2$)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
<th>EN ISO 10 874</th>
<th>Residential/Commercial/Industrial</th>
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</thead>
<tbody>
<tr>
<td>23/24/43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23/24/43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23/24/43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23/24/43</td>
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</table>

### Additional technical properties

<table>
<thead>
<tr>
<th>Toxicity of fumes</th>
<th>DIN 53 436</th>
<th>Carcinogenic gases are non toxic</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Anti-slip properties</th>
<th>DIN 51 130</th>
<th>According to BGR 181</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 51 097</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Improvement in footfall sound absorption</th>
<th>ISO 10 140-3</th>
<th>$12 \text{ dB}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$10 \text{ dB}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$9 \text{ dB}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$15 \text{ dB}$</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Effect of chemicals</th>
<th>EN ISO 26 987</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Electrical insulating properties</th>
<th>IEC 60 150, VDE 0303 T.30</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Electrical propensity when wet/damp</th>
<th>EN 185</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Effect of a corner chaser</th>
<th>EN 425</th>
</tr>
</thead>
</table>

* In case of increased impact of oils, greases, acids, alkalis and other aggressive chemicals please contact us.

EN 1817: Specification for homogeneous and heterogeneous smooth electron beam coverings
EN 12 199: Specification for homogeneous and heterogeneous prefilled elastomer floor coverings

* Colour variations due to different production batches as well as technical alterations to improve the product have to be accepted.

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### noraplan®

#### Technical Data

<table>
<thead>
<tr>
<th>Test method</th>
<th>Requirements</th>
<th>Average test results from running production</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE conformity</td>
<td></td>
<td>Manufacturer: nora systems GmbH, D-69469 Weinheim</td>
</tr>
<tr>
<td>EN 14 041</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thematic conductivity</td>
<td>EN 10 454</td>
<td>A = 0.17 W/(m·K)</td>
</tr>
<tr>
<td>Dynamic coefficient of friction</td>
<td>EN 13 993</td>
<td>0.5</td>
</tr>
<tr>
<td>Reactor to fire</td>
<td>EN 13 501-1</td>
<td>Not bonded</td>
</tr>
<tr>
<td>Reactor to fire</td>
<td>EN 13 501-1</td>
<td>Bonded on mineral subfloor</td>
</tr>
<tr>
<td>Properties acc. to EN 1817/EN 1816</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thickness</td>
<td>EN ISO 24 346</td>
<td>Mean value without foam backing</td>
</tr>
<tr>
<td>Dimensional stability</td>
<td>EN ISO 23 999</td>
<td>± 0.4 %</td>
</tr>
<tr>
<td>Reactor to fire</td>
<td>EN 13 501-1</td>
<td>Bonded on mineral subfloor</td>
</tr>
<tr>
<td>Reactor to fire</td>
<td>EN 13 501-1</td>
<td></td>
</tr>
<tr>
<td>Resilience</td>
<td>EN ISO 24 344, procedure A</td>
<td></td>
</tr>
<tr>
<td>Hardness</td>
<td>ISO 7619</td>
<td>Shore A</td>
</tr>
<tr>
<td>Residual indentation</td>
<td>EN ISO 24 343</td>
<td>Mean value at 2.5 mm</td>
</tr>
<tr>
<td>Alteration at 5 N load</td>
<td>ISO 649, procedure A</td>
<td>≤ 250 mm²</td>
</tr>
<tr>
<td>Colour fastness to artificial light</td>
<td>ISO 105-B02, procedure 3, test conditions 6.1 a)</td>
<td>Grey scale ≥ 3 on the blue scale; ≥ 3 on the grey scale (= 350 MJ/m²)</td>
</tr>
<tr>
<td>Classification</td>
<td>EN ISO 10 874</td>
<td>Residential/Commercial/Industrial</td>
</tr>
<tr>
<td>Additional technical properties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toxicity of fire gases</td>
<td>DIN 53 436</td>
<td></td>
</tr>
<tr>
<td>Anti-slip properties</td>
<td>DIN 51 100</td>
<td>According to BGR 181</td>
</tr>
<tr>
<td></td>
<td>DIN 51 107</td>
<td>-</td>
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<tr>
<td></td>
<td>BS 7976</td>
<td>2002 Pendulum</td>
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<tr>
<td></td>
<td>SATRA TM 144</td>
<td>-</td>
</tr>
<tr>
<td>Improvement in footfall sound absorption</td>
<td>ISO 10 140-3</td>
<td>6 dB</td>
</tr>
<tr>
<td>Effect of chemicals</td>
<td>EN ISO 21 698</td>
<td>Resistant depending on concentration and time of exposure*</td>
</tr>
<tr>
<td>Electrical insulation properties</td>
<td>IEC 60 033, VDE 0303 T.30</td>
<td></td>
</tr>
<tr>
<td>Electrical propensity when walked upon</td>
<td>EN 1115</td>
<td>-</td>
</tr>
<tr>
<td>Effect of a caster chair</td>
<td>EN 425</td>
<td>Suitable if caster wheels, Type W, according to EN 12 529 are used*</td>
</tr>
</tbody>
</table>

* In case of increased impact of oils, greases, acids, alkaline and other aggressive chemicals please contact us.

EN 1817: Specification for homogeneous and heterogeneous smooth electron floor coverings

EN 1816: Specification for homogeneous and heterogeneous smooth electron floor covering with foam backing

Colour variations due to different production batches as well as technical alterations to improve the product have to be accepted.

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Technical Data | nora systems 75
## nora® nTx Technical Data

### Test Method Requirements

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Requirements</th>
<th>Average Test Results from Running Production</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>noraplan®</strong></td>
<td></td>
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<tr>
<td><strong>norament®</strong></td>
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<tr>
<td><strong>norament®</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>sentica nTx</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>signa nTx</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>stone nTx</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>unita nTx</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>valua nTx</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>lona nTx</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>uni nTx</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ultra grip nTx</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>926 grano nTx</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>926 satura nTx</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>926 arago nTx</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CE Conformity

- EN 14 041

### Thermal Conductivity

- EN 10 456

### Dynamic Coefficient of Friction

- EN 13 893

### Reaction to Fire

- EN 13 501-1

### Properties acc. to EN 1817

- Thickness
  - EN ISO 24 346
  - Mean value + 0.15 mm according to EN 1817
  - 2.1 mm or 3.1 mm
- Dimensional stability
  - EN ISO 24 349
  - ± 0.4 %
- Carbonisation resistance
  - EN 1399
  - Procedure A (ribbed out) ≥ level 4
  - Procedure B (burning) ≥ level 3
- Flexibility
  - EN ISO 24 344, procedure A
  - Nominal diameter 30 mm, max. stressing
- Hardness
  - ISO 7619
  - 92 Shore A
- Residual indentation
  - EN ISO 24 343
  - noraplan® etc.
  - Mean value ≤ 0.15 mm at thickness ∼ 2.5 mm
  - Mean value ≤ 0.20 mm at thickness ≥ 2.5 mm
  - norament® etc.
  - Mean value ≤ 0.15 mm at thickness ∼ 2.5 mm
  - Mean value ≤ 0.20 mm at thickness ≥ 2.5 mm
- Abrasion resistance at 5 N load
  - EN ISO 4649, procedure A
  - ≤ 250 mm³
- Colour fastness to artificial light
  - ISO 105-B02, procedure 3, test conditions 6.1 a)
  - At least 6 on the blue scale, ≥ 3 on the grey scale (≥ 350 MJ/m²)

### Additional Technical Properties

- Weight
  - EN ISO 24 347
  - 2.1 mm: ~ 3.36 kg/m²
  - 3.1 mm: ~ 5.08 kg/m²
- Tear strength
  - EN 34-1, method B, procedure A
  - n. a.
- Slip resistance
  - DIN 51 150
  - R 9* (reflection-breaking surface)
  - R 11* (arago nTx)
- Improvement in sound sound absorption
  - ISO 140 140
  - 2.1 mm: 3 dB
  - 3.1 mm: 4 dB
  - 4 dB
- Effect of chemicals
  - EN ISO 26 987
  - Depending on concentration and time of exposure
  - Resistant

### Fire Behaviour

- EN 1815
  - Fire behaviour
  - EN 12 080-1
  - Hazard Level
  - M1
  - Fire behaviour
  - ASTM E-648 / ISO 9239-1
  - Federal Railroad Administration
  - After 1.5 minutes < 100, after 4 minutes < 200

### Adhesive Characteristics

- Pressure-sensitive hot melt adhesive
- approx. 105 °C
- approx. 105 °C
- 87 %
- 9 %

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* Tested and certified by an independent testing institute.
** Minimum quantities required.
---

Colour variations due to different production batches as well as technical alterations to improve the product have to be accepted.
**nora® ESD floor coverings**

### Technical data

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<td>EN 14 041</td>
<td>Manufacturer: nora systems GmbH, D-69469 Weinheim</td>
</tr>
<tr>
<td>Potential difference</td>
<td>EN 14 041</td>
<td>0.005 V</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>EN 10 456</td>
<td>$\lambda = 0.17 \text{ W/(m·K)}$</td>
</tr>
<tr>
<td>Dynamic coefficient of friction</td>
<td>EN 10 093</td>
<td>0.5</td>
</tr>
<tr>
<td>Electrical behaviour</td>
<td>EN 10 801</td>
<td>Suitable for underfloor heating systems</td>
</tr>
<tr>
<td>Reaction to fire</td>
<td>EN 12 501-1</td>
<td>Not bonded</td>
</tr>
<tr>
<td>Reaction to fire</td>
<td>EN 12 501-1</td>
<td>Bonded on mineral subfloor</td>
</tr>
</tbody>
</table>

### Properties acc. to EN 1817

- **Thickness**
  - EN ISO 24 346: Mean value $\pm 0.15$ mm according to EN 1817
  - 3.5 mm
  - 3.5 mm
  - 2.0 mm
  - 3.0 mm
  - 3.0 mm
- **Dimensional stability**
  - EN ISO 23 999: $\pm 0.4$ %
  - $\pm 0.3$ %
- **Year strength**
  - EN ISO 24 344, method B, procedure A
  - Mean value $\geq 20$ N/mm
  - 45 N/mm
  - 30 N/mm
  - 30 N/mm
- **Cigarette-burn resistance**
  - EN 13 893 DS
  - Procedure A (stubbed out) $\geq$ level 4
  - Procedure B (burning) $\geq$ level 3
  - **Fulfilled**
- **Flexibility**
  - EN ISO 24 344, procedure A
  - Hurdled diameter 20 mm, no fissuring
  - **Fulfilled**
- **Residual indentation**
  - EN ISO 24 343
  - Mean value $\leq 0.15$ mm at thickness $< 2.5$ mm
  - Mean value $\leq 0.20$ mm at thickness $\geq 2.5$ mm
  - Mean value $\leq 0.25$ mm at thickness $\geq 3.0$ mm
  - Mean value $\leq 0.20$ mm at thickness $< 3.0$ mm
- **Abrasion resistance at 5 N load**
  - ISO 4649, procedure A
  - $\leq 250$ mm$^3$
  - $80$ mm$^3$
  - $70$ mm$^3$
  - **Fulfilled**
- **Colour fastness to artificial light**
  - ISO 105-B02, procedure 3, test conditions 6.1 a)
  - At least level 6 on the blue scale
  - $\geq$ level 3 on the grey scale (350 MJ/m$^2$)
  - **Fulfilled**
- **Flexibility at 5 K load**
  - ISO 6449, procedure A
  - $\leq 250$ mm$^2$
  - $80$ mm$^2$
  - $70$ mm$^2$
  - $150$ mm$^2$
  - **Fulfilled**
- **Classification**
  - EN ISO 20 874
  - Residential, Commercial, Industrial
  - **Fulfilled**

### Additional technical properties

- **Tactility of fire gases**
  - DIN 53 436
  - According to DIN 53 436
  - R 9
- **Antislip properties**
  - DIN 51 130
  - According to BGR 181
  - R 9
- **Improvement in footfall sound absorption**
  - ISO 10 140-3
  - 10 dB
  - 10 dB
  - 6 dB
  - 7 dB
  - **Fulfilled**
- **Effect of chemicals**
  - EN ISO 26 987
  - Resistant depending on concentration and time of exposure
  - **Fulfilled**
- **Effect of a castor chair**
  - EN ISO 4257
  - Suitable if castor wheels, type W, according to EN 12 459 are used
  - **Fulfilled**

### Electrical behaviour

- **Resistance to ESD**
  - ESD STM 7.1/
  - IEC 61 340-4-1
  - Measuring the installed floor at 23 °C (± 2 °C) and $\geq 25$ % r.h.
  - $\leq 10^6$ Ohm
  - $\leq 10^6$ Ohm
  - $\leq 10^6$ Ohm
- **Resistance to shock**
  - EN 1081
  - $\leq 10$ V
- **Protection against shock**
  - EN 1081
  - $\geq 10^6$ Ohm
  - $\geq 10^6$ Ohm
- **Insulation resistance**
  - VDE 0200 - 600
  - $\geq 1 \times 10^6$ Ohm

*In case of increased impact of oils, grease, scales, alkaline and other aggressive chemicals please contact us.

**If installed electrically dissipative and conductive in conformity with our installation instruction and according to the recommendations of the adhesive manufacturer.

The used adhesive has to have a permanent resistance of $R < 3 \times 10^5$ Ohm according to EN 13 415.

***If extremely low humidity values ($\leq 25$ % relative air humidity (r.h.)) are expected for a longer period, please contact nora systems GmbH, Technical Service, for advice.

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EN 1817: Specification for homogenous and heterogeneous smooth elastomer floor coverings.
Building Information Modeling (BIM)

Building Information Modeling (BIM) is a software-supported method used to optimise the planning, construction and management of buildings. All relevant material and building data is digitally captured, managed, combined and cross-linked. In this way, a large amount of additional information, which is directly assigned to the installed materials, can be accessed quickly. This information can be used throughout the entire life cycle of a building, starting with the documentation of planning, through cost and project management to building operation. Each planner creates his own, trade-specific model, which is merged with the other individual models to finally represent the entire project.

Special IT programs are required for working with BIM. AUTODESK® Revit® and GRAPHISOFT® ArchiCAD are two of the leading software tools that can be used to implement BIM planning and generate the virtual building model. For both programs, the files of norament and noraplan standard floor coverings that are required for planning are available for download on our website. In ArchiCAD, our norament staiitreads can also be taken into account during planning.
Please note

norament® and noraplan® have been developed for indoor installation. nora® floor coverings are not suitable for installation in outdoor applications or in areas with constant and direct wet loads.

The particulars given in this brochure are for informational purposes only concerning the products presented. They represent descriptions or designations, but not any warranted qualities. This information cannot cover all possible service conditions which our floor coverings may encounter.

If the floor covering is going to be exposed to out-of-the-ordinary service conditions and stresses (e.g. extreme UV radiation, chemical substances or other aggressive media), please contact us for advice.

We will be pleased to supply you on request with flooring samples to enable you to carry out in-house tests. We reserve the right to alter technical values as part of an ongoing product improvement process.

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