

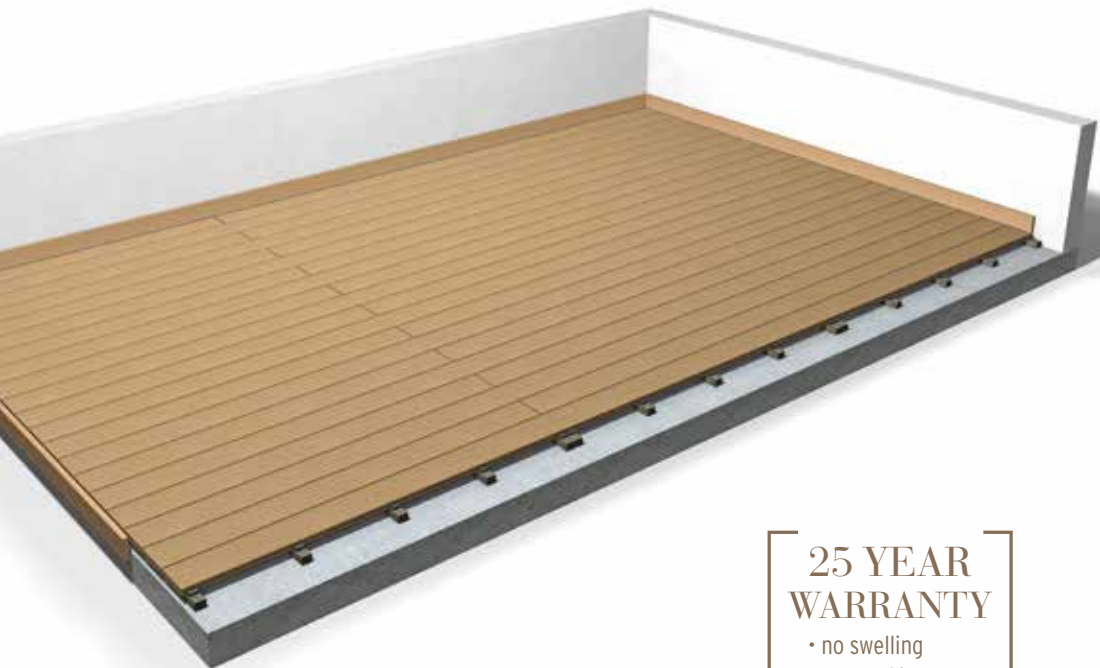


Made with



# INSTALLATION GUIDE

## DECKING



**25 YEAR  
WARRANTY**

- no swelling
- no cracking
- no splintering
- no rotting



THE LATEST TEST RESULT - CLASS A FIRE RATING  
ASTM E84 FOR DECKING AND CLADDING PROFILES!

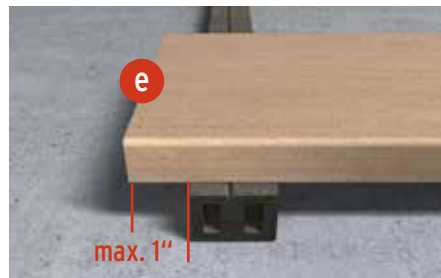
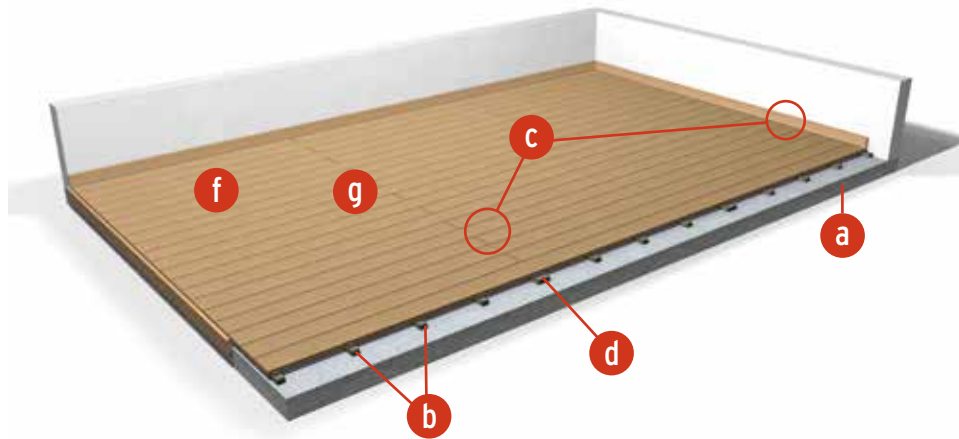


realized by Sojo Design

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# 1. Basics

General overview of the most important points to be observed



## a Substructure:

ensure a firm and solid substructure with adequate water drainage.

## b Joists:

The joists should be fixed accordingly to the span mentioned on the decking template (Page 6). Ensure that all joists are level across the top, as decking will conform to the surface of the substructure.

## c Expansion Joint:

always consider the linear expansion of which depends only on temperature and not, like in the case of wood, on air humidity. The expansion chart gives you the determining distances between the profiles.

### Contraction Guide

Profile Length	12 ft	16 ft	20 ft
Expansion/Contraction amount 0.2% over 90° F variation in temperature	1/4"	3/8"	1/2"

## d Butt joints:

use a double joist for each abutting deck board. Use recommended clip (clip only for gold-, platinum- and jetty-decking) at each end of the board.

## e Overhang:





Adhere to a max. overhang of 1 inch.

## f Flooring Pattern:

The decking pattern should be determined in advance, since the substructure is dependant on this.

## g Do not

combine two different Decking Profiles in one installation (e.g. Regal and Signature Decking Profile).

DECK	Standard	Part No.	Dimensions	Length	Commercial	Span*	Corrugation	Installation
	REGAL DECKING		1" x 5 1/2"	12'	NO	16"	NO	RESYSTA CLIPS RESCLIP HF100
	SIGNATURE DECKING	NAXDS010612 NAXDS010616 NAXDS010620	1" x 5 1/2"	12' 16' 20'	NO	16"	NO	RESYSTA CLIPS RESCLIPS 100
	MAGNUM DECKING	NAXDS010612 NAXDS010616 NAXDS010620	1" x 5 1/2"	12' 16' 20'	YES	16"	YES	RESYSTA CLIPS RESCLIPS 100
	MAGNUM DECKING WIDE	NAXDS010812 NAXDS010816 NAXDS010820	1" x 7 1/2"	12' 16' 20'	YES	16"	YES	RESYSTA CLIPS RESCLIPS 100

\*under 6" height or diagonal installation use 12" on center!

## 2. Scope of Delivery

NAXDR010612 REGAL  
(W x H x L) 3/4" x 5 1/2" x 12'



NAXDS010612 SIGNATURE  
(W x H x L) 1" x 5 1/2" x 12'



NAXDM010612 MAGNUM  
(W x H x L) 1" x 5 1/2" x 12'



NAXDM010108 MAGNUM  
(W x H x L) 1" x 7 1/2" x 12'



NAXF12812  
(W x H x L) 1/2" x 8" x 12'



NAXJ010212  
(W x H x L) 1" x 11/2" x 12'



NAX010312  
(W x H x L) 3/4" x 2 3/4" x 12'



RESCLIPS100  
SIGNATURE, MAGNUM  
DECKING CLIP



RESCLIPHF100  
REGAL DECKING CLIP



NAXDOWEL3  
(Ø x L) 1/2" x 3'



NAXEDGE6  
(W x H x L) 1/2" x 1/2" x 6'



NAXEND6  
(W x H x L) 5/8" x 5/8" x 6'



Note: Used for firm, holohedral soil, e.g. concrete.

### 3. General Advice

Decking should be installed by an authorized professional.

- Do not cover the decking with rubber mats or the like, neither in installed or un-installed condition. Condensation or backwater can lead to stains
- Decking can be processed with standard woodworking machines
- Only use sandpaper with a grit between 24 and max. 40
- Only sand in longitudinal direction

### Storage

- Please store Products on even flat ground
- In case the planks are stored on wood stickers, please ensure a max. distance between each piece of 3 feet.

#### Legal Advice:

Decking and Joists have been especially developed for its named applications and are no structural material. The items have no general technical approval and are therefore not suitable for supportive construction purposes. Local building codes are to be considered as well as the installation instructions and technical information.

### 4. Pre-Treatment

#### Application of the Surface Finish (FVG)



In order to ensure a smooth and ideal result in color, the Surface Finish should be applied during consistent conditions. Therefore, we recommend applying the finish plank by plank before installation. Temperature approx. 40°F - 80°F, relative air humidity approx. 50 - 60%.



Do not apply under direct sun or in case of rain.

ADVICE:

Stain and sealer should be applied with a broad bristle brush (surface brush)

If the surface finish is applied after installation, please adhere to the points mentioned above and paint a max. surface of 40 - 50 ft<sup>2</sup> at once. In this case, we recommend to entrust an expert with the application of the surface finish.



For further advice and information on Resysta Surface Treatment with Finish or 2K Sealer, please contact your authorized dealer or go to [www.resysta.com](http://www.resysta.com).

# 5. Installation

## 5.1. General Installation Advice

- Please ensure a slope of approx. 2 degrees for adequate water drainage. If still water around decking or joists freezes it can cause damage. To avoid this, the exposed areas can be closed with an end plate
- Only use approved Naxan fastening system. (e.g. stainless steel screws)



Expansion Joint

Please always consider the linear expansion of Resysta Material, which depends only on temperature and not, like in the case of wood, on air humidity. Please see below chart for the expansion at deviating material temperatures.

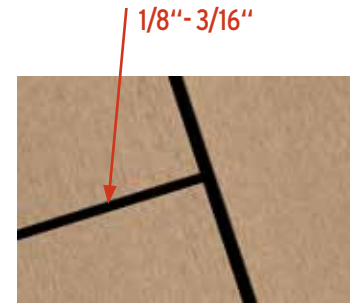
### Contraction Guide

Profile Length	12 ft	16 ft	20 ft
Expansion/Contraction amount 0.2% over 90° F variation in temperature	1/4"	3/8"	1/2"

Please ensure a steady material temperature when cutting the planks to size, i.e. the cutting has to be done under constant conditions, e.g. inside or in shade.

#### ADVICE:

It is possible to apply a slight 30° bevel at the end of the planks which conceals the open cells of the plank.



#### End-to-End/Width-to-Width

Gap Decking end-to-end, based upon the temperature at installation. See chart at left.



#### Abutting Solid Objects

When Decking is abutting a wall, you must also gap it 1/4"-1/2" depending on the temperature at installation. See chart at left.



Locate the joist closest to the center of the deck board. Pre-drill the deck board in the groove at the side of the deck board using a 1/8" drill bit. Install a 10 x 2 1/2" stainless steel screw to secure the deck board to the substructure. Do this for the center joist only to allow for expansion/contraction of the deck board in both directions.

## 5.2. Possibilities of Installation

The decking pattern should be determined in advance, since the substructure is depending on this.

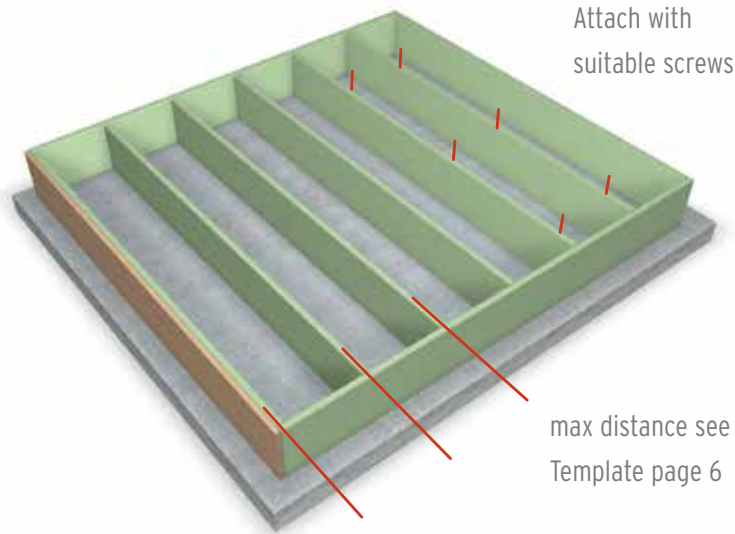
Examples:



# 5. Installation

## 5.3. Substructure

Joist 1" x 1 1/2" on firm concrete



General points to be observed for each substructure:

- Ensure firm soil and adequate water drainage
- Firmly support all joists above soil
- In case the joists cannot be firmly screwed with the ground (e.g. roof coating), sufficient fixing of the whole decking needs to be ensured (please clarify details with your architect)

Basically, also other substructures, e.g. acq pressure treated douglas fir or Timbersill can be used. However, please ensure adequate for intended use.

## 5.4.1. Installation of the Signature- and Magnum-decking Installation with non-visible screw and Clip



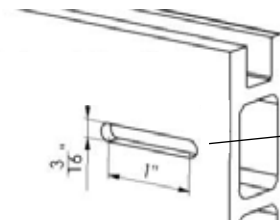
Pre-drill the plank with a 1/8" drill.



Drill a hole through the top layer with a drillbit as big as Resysta dowel.



Turn in the stainless steel screw.



Deck cut away to show slot location.  
Slot located in center of chamber.



Insert some glue into the hole, apply the dowel and cut smoothly.



Subsequently, sand and then apply the stain on the dowel.

# 5. Installation

## 5.4.1. Installation of the Signature- and Magnum-decking

Installation with non-visible screw and Resysta RESCLIPS100



Apply the clip.

**IMPORTANT: THE RESYSTA LOGO ON THE CLIP HAS TO BE IN DIRECTION OF THE PLANKS!**



Screw the clip

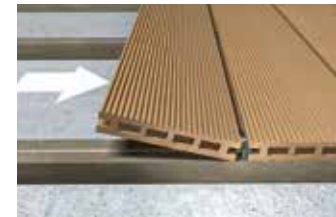
CAUTION: avoid stripping of the clip by setting torque of screw accordingly.



Place Clip Every Joist.



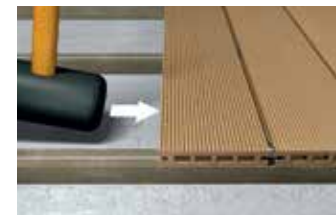
Use recommended clip at each end of the board.  
Place clip as close to the end as possible.  
**Single clip at butting plank will void warranty**



Insert plank at an angle.



Press plank onto the joist.



Tap thoroughly.

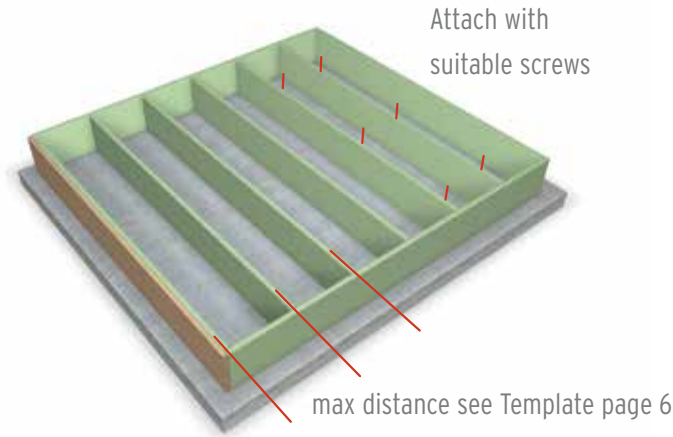


# 5. Installation

## 5.4.2. Installation of the Regal-decking

Installation with board connectors RESCLIPHF100

### Substructure



#### Generally:

- use suitable material for the substructure
- fasten the construction joists to the substructure with screws
- use suitable screws

### 5.4.2.1. Fastening with Connectors RESCLIPHF100



#### Visible Screw Connection:

Fasten the board connectors to the lower surface. Pinch off the nose-piece of the first board connector and screw to the rear side of the floorboard. The first board is screwed from above visibly to the substructure with a terrace construction screw close to the nose-piece. Pre-drill the plank with a 1/16" drill. Carefully screw in terrace construction screw.

### 5.4.2.2. Installation of Planks



The board connector is fastened to the rear side of the plank and fixed to the substructure with a screw.



The board connectors are fastened with limit stop in the height of the substructure, offset and opposing underneath the first plank.



Screw in a connector in each spacing which already slides underneath the fastened floorboard. The connectors hold the plank down and prevent them from lifting.



Insertion of the connector underneath the previous plank. Press down over the entire length of board. The distance between the profiles should measure minimum 1/16" and maximum 3/8".

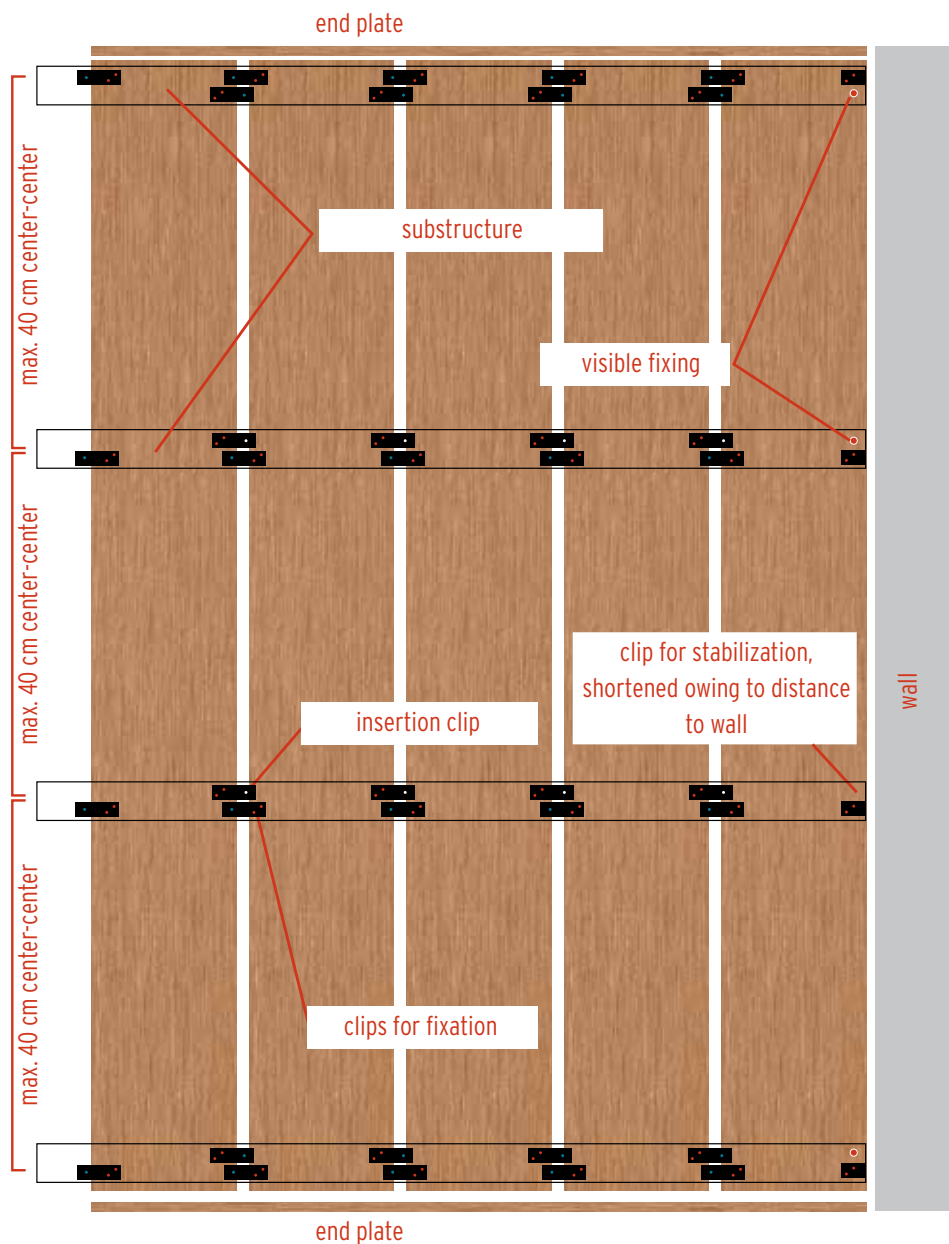


After the first plank has been fastened to the substructure, the following board can be inserted.



Subsequently fasten the loose side with screws to the substructure. Alternatively, visible screw connection.

### 5.4.2.3. Installation with Rear Side Board Connectors (Laying Pattern)



#### Fascia Board



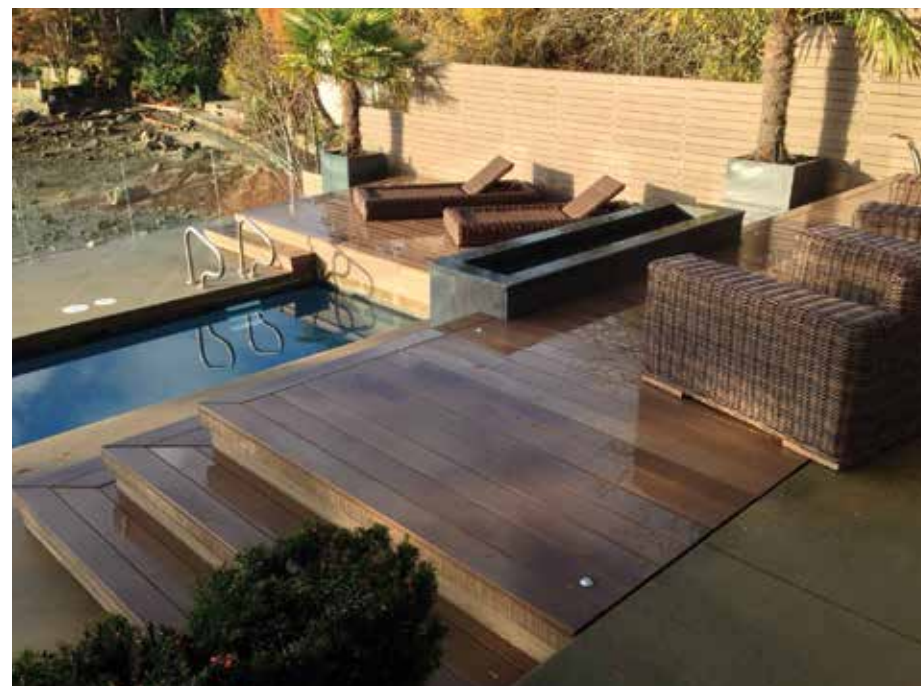
Use two boards as fascia boards to hide exposed substructure



place screw immediately beside vertical rip DWG



use 2 screws, each board, every 16"



# 5. Installation

## 5.5. End Plates/Edge cap

### Fastening the End Plates



Directly fasten the end plate with the screw for terrace construction or hidden with a dowel with the joist.

**IMPORTANT:** Please adhere to an expansion joint of 1/4" between end of the plank and end plate. Fasten End Plate to the substructure not to the deckboards.

### Fixing the Edge cap



1 Apply PU glue.

2 Firmly insert the end cap into the groove.

3 Tap thoroughly and finish with sandpaper.

# 6. Completion

Drill holes, dowels and cuts done after installation should be stained afterwards as well. In this case we recommend to pour the finish on a towel and rub the affected surface.

# 7. Technical Data

Density	ASTM D2395:2002	approx. 1.46 kg/m <sup>3</sup>
Coefficient of Linear Thermal Expansion	ASTM D696	2.5x10(-5)mC
Water Absorption and Air Humidity Behaviour	ASTM D1037:2006a	none or very low water absorption (only surface wetting)
Weathering and UV Resistance	QUV Test	Resysta surfaces treated with glaze show extremely high resistance
Skid Resistance	DIN 51097	C Rating (highest rating)
Fire Behaviour (German Standard)	EN ISO 11925-2	B2, normal flammability (by adding flame retardants, a higher rating of B1 can be reached)
Fire Behaviour (US Standard)	ASTM E84	A Rating (flame propagation 25, smoke emission 450)
Fire Behaviour (British Standard)	BS 476 Part 6&7	Rating 1
Durability (Resistance to Wood-Destructive Fungi)	DINV ENV 12038:2002	the material has not been affected, highest durability - Class 1
Emission	DIN EB ISO 9001/14001	passed
Brinell Hardness (HB)	EN 1534	81,1 N/mm <sup>2</sup>
Friction Coefficient $\mu$ untreated	EN 13893	0,46
Friction Coefficient $\mu$ with 2K	EN 13894	0,52
Screw Withdrawal Resistance	EN 320.2011-07	5777 N



Made with



# The Future Formula is Called Resysta.

Raw materials used:



approx. 60% rice husk + approx. 22% rock salt + approx. 18% mineral oil = Resysta

proudly distributed by



RSW Distribution | 4035 Cheyenne Ct, Chino | California 91710

Office 909.393.2800 | Fax 909.393.2831

info@rswdist.com

All specifications provided are subject to our installation guidelines and appropriate use at outdoor exposure.

The installation guide may be adapted to technical progress without prior notice.

The current version can be downloaded at [www.naxan-resysta.com](http://www.naxan-resysta.com)

Subject to alterations. Slight deviations in color, photos and graphics could occur due to printing process.

[www.naxan-resysta.com](http://www.naxan-resysta.com)