



INSTALLATION GUIDE

RESYSTA FLOORING

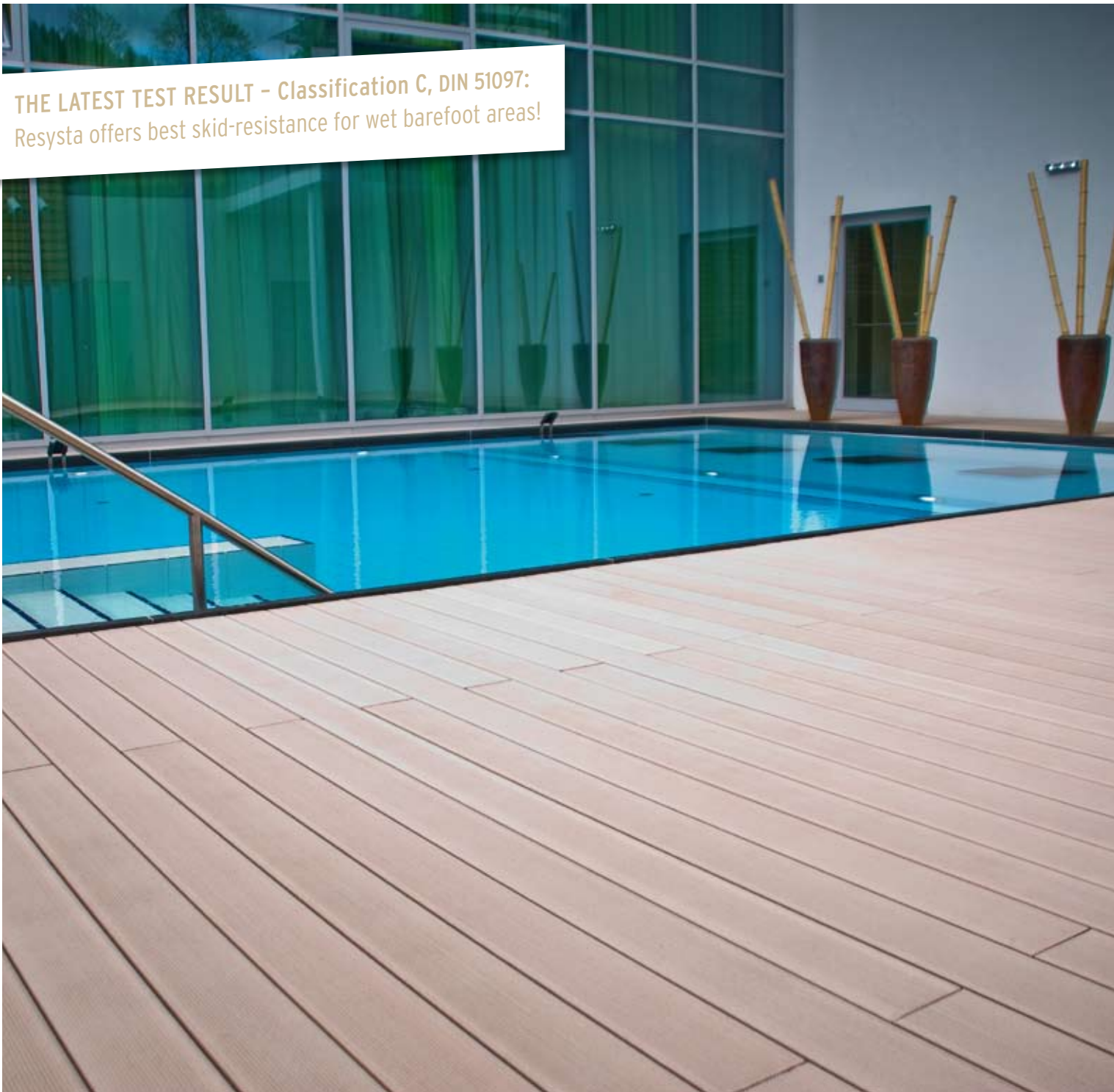


**15 YEARS
GUARANTEE**

- swell-free
- crack-free
- splinter-free
- rot-free



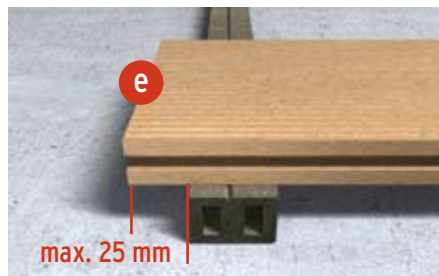
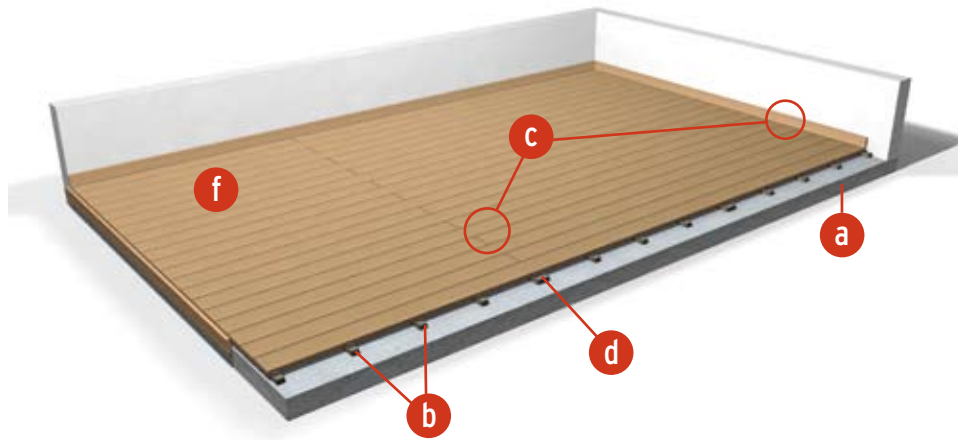
THE LATEST TEST RESULT - Classification C, DIN 51097:
Resysta offers best skid-resistance for wet barefoot areas!



1. Basics
2. Scope of Delivery
3. General Advice
4. Pre-Treatment
5. Installation
 - 5.1. General Installation Advice
 - 5.2. Possibilities of Installation
 - 5.3. Substructure
 - 5.4. Installation of the Planks
 - 5.5. End Plates
6. Fixing
7. Completion
8. Application of the Transparent Sealing (RFS)

1. Basics

General overview of the most important points to be observed



a Soil:

Please ensure firm soil and adequate water drainage.

b Joists:

The joists should be fixed at **max. 35 cm** intervals into the ground.

c Expansion Joint:

Owing to expansion due to heat, please allow for temperature-dependent linear expansion of **1 mm gap per running meter** between the ends of the planks, e.g. **2,9 m plank = approx. 3 mm** distance. If the planks are installed closed to a wall, the distance here should be **10 mm**.

d Placing of the Planks:

A **min. of 30 to 35 mm** of the ends of the planks should lie upon the joists. When using the joist 38x25, two of them need to be installed.

e Overhang:

Adhere to a **max. overhang of 25 mm**.

f Flooring Pattern:

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

Do not cover the flooring with plastic foils or the like, neither in installed nor un-installed condition. Condensation or backwater can lead to stains.

2. Scope of Delivery

FLOORING PROFILE



Material: Resysta
Colour: Natural
Width x Height: 125 x 21 mm

Note: Length upon request

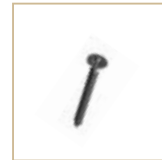
END PLATE



Material: Resysta
Colour: Natural
Width x Height: 70 x 20 mm

Note: Frames the decking on exposed sides.
Can also be used as joist.

STAINLESS STEEL SCREW 3,5 x 35 mm



Dimensions: 3,5 x 35 mm
Colour: black bronzed

Note: Only to be used for Resysta Flooring

CLIP T4



Material: Nylon
Colour: black

JOIST 38 x 25 mm



Material: Resysta
Colour: schwarz
Width x Height: 38 x 25 mm

Note: Quantity needed for one sqm flooring = approx. 4 running mts
Used for firm, holohedral soil, e.g. concrete

END CAP



Material: Resysta
Colour: Natural
Width x Height: 10 x 10 mm

Hinweise: für seitlichen Abschluss oder Randabschluss

SCREW FOR TERRACE CONSTRUCTION 5,5 x 40 mm



Dimensions: 5,5 x 40 mm
Material: Stainless Steel (A2)

JOIST 70 x 38 mm



Material: Resysta
Colour: schwarz
Width x Height: 70 x 38 mm

Note: Used to be fixed on punctual soil, e.g. exposed aggregate concrete

DÜBELSTANGE



Material: Resysta
Colour: Natural
Diameter: Ø 12 mm

Note: For finishing drill holes.



For further advice and information on Resysta Surface Treatment with Finish or 2K Sealer, please contact your authorized dealer or go to www.resysta.de.

3. General Advice

Resysta Flooring should be installed by an authorized profession.

- Resysta Flooring can be processed with standard woodworking machines
- Only use sandpaper with a grit between 24 and max. 60
- Only sand in longitudinal direction
- Resysta Flooring can be glued with standard PU glues (D3 or D4)
- Owing to the special production and composition of Resysta, smaller air inclusion may appear. However, this does neither effect quality nor stability.



Storage

- Please store Resysta Products on plain ground
- In case the planks are stored on bars, please ensure a max. distance of the bars of 30 cm

Legal Advice:

Resysta 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 (FFS)



We recommend to apply the finish before installation!

In order to ensure a smooth and ideal result in colour, the Surface Finish should be applied during consistent conditions. Therefore, we recommend applying the finish plank by plank before installation. Temperature approx. 5° - 25°, relative air humidity approx. 50 - 60 %.



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

ADVICE:

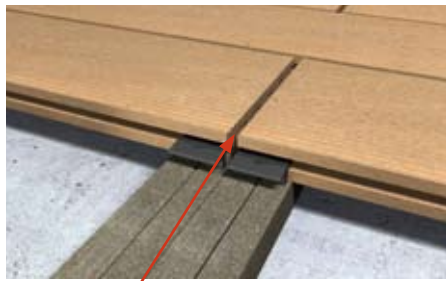
Application should be effected with a broad brush (surface brush).

If the surface finish is applied after installation, please adhere to the points mentioned above and paint a max. surface of 4 - 5 m² at once. In this case, we recommend to entrust an expert with the application of the surface finish.

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 construction fastening material and hardware suitable for outdoor use (e.g. stainless steel screws)



Expansion Joint

Please consider the expansion of Resysta, which depends only on the temperature - and not, like in the case of wood on the air humidity. Per meter plank, you can calculate 1 mm expansion.

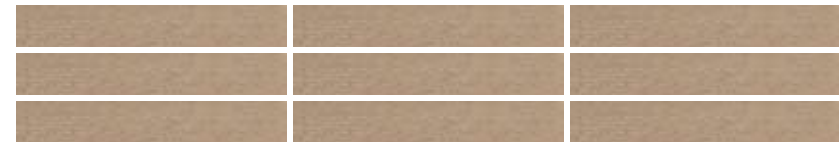
ADVICE:

It is possible to apply a slight 45° bezel at the end of the planks which conceals the expansion joint.

5.2. b. Possibilities of Installation

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

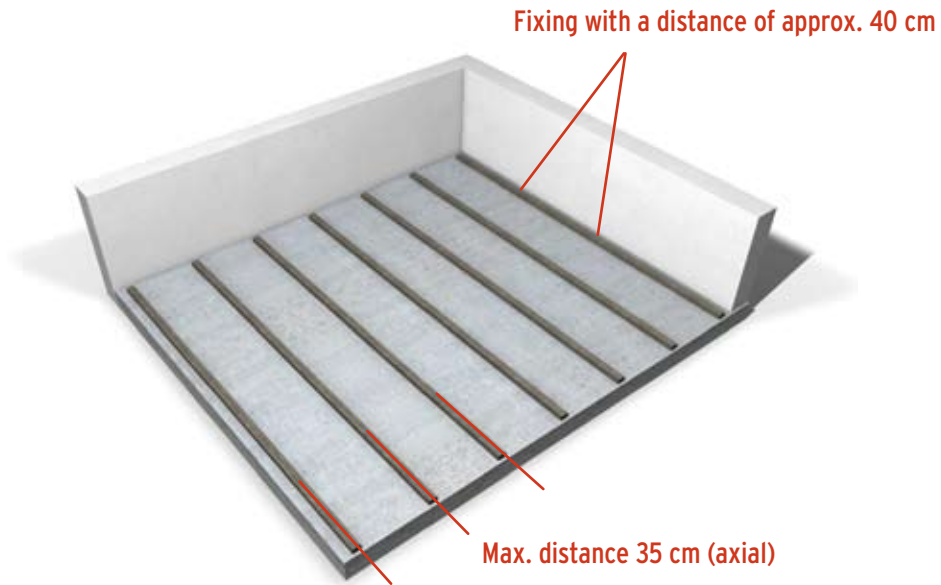
Examples:



5. Installation

5.3. Substructure

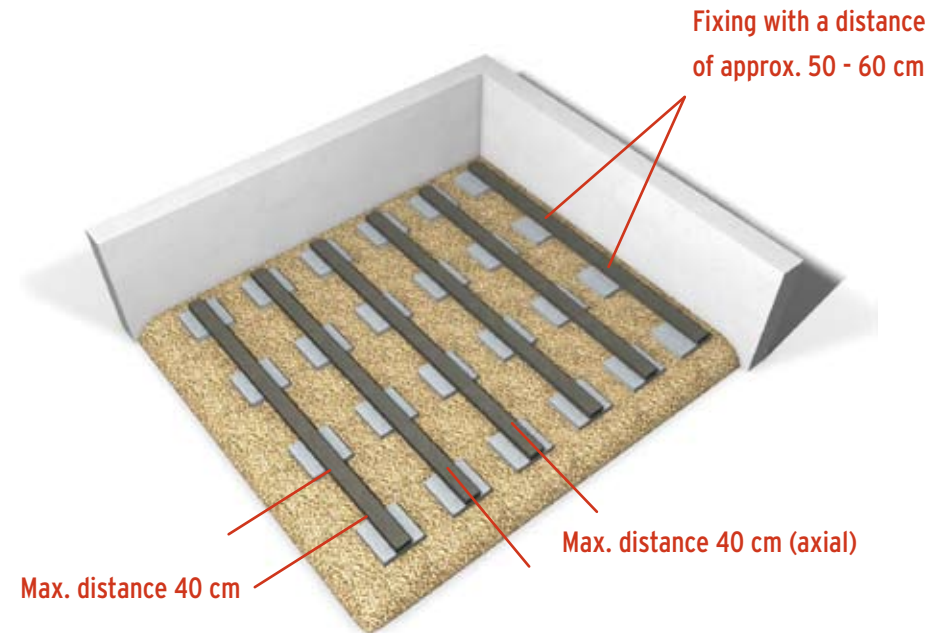
Resysta Joist 38 x 25 on firm, holohedral soil, e.g. concrete



General points to be observed for each substructure e.g. wood beams:

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

Resysta Joists 70 x 38 used to be fixed on punctual soil, e.g. exposed aggregate concrete



Basically, also other substructures, e.g. wooden beams, can be used. However, please adequacyfor intended use.

5. Installation

5.4. Installation of the Planks

Installation with non-visible screw and Clip



Pre-drill the plank with a 2mm drill.



Drill a hole of approx. 1 cm depth with a 12mm drill.



Turn in the stainless steel screw.



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



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



Apply the clip.

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



Screw the clip

CAUTION: avoid jiggering of the screw by setting torque accordingly.



Insert plank angular.



Press plank onto the joist.



Tap thoroughly.

5. Installation

5.4. Installation of the Planks

Alternative - fixing with screws for terrace construction



Pre-drill the screw with a 2 mm drill.



Cautiously turn in the screw for terrace construction.



Install further planks with desired distance (we recommend 1 to 4 mm) and fasten them. Please use adequate distance pieces, like plywood stripes.

5.5. End Plates

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 3 to 4 mm between end of the plank and end plate.

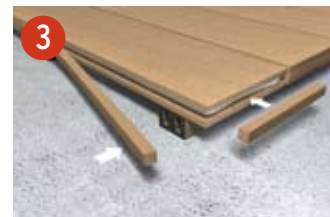
Fixing the end plate



Mill a groove in accordance with the size of the end plate.



Apply PU glue.



Firmly insert the end plate into the groove.



Tap thoroughly.

5 Subsequently, finish off with sandpaper.

6. Fixing

In order to control the direction of expansion of the Resysta planks, each plank needs to be fixed. This can either be done at the end of a plank or axial.

● Alternative A = Pinning at the end

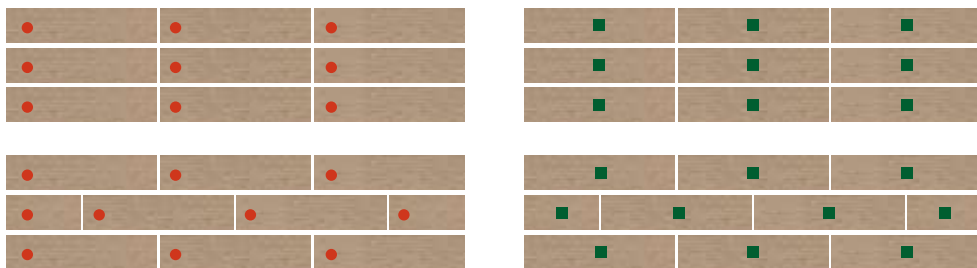
■ Alternative B = Pinning at the centre



Fixing two planks in longitudinal direction:



Fixing more than two planks in longitudinal direction:



The fixing can be done concealed or with screws for terrace construction. When completely fixing the planks with screws for terrace construction instead of clips, the above mentioned points are unnecessary.

7. Completion

Drill holes, dowels and cuts done after installation should be glazed afterwards as well. In this case we recommend to mix the finish at a ratio of 2 parts water : 1 part finish, dip a towel into it and rub the affected surface.

8. Application of the Transparent Sealing (RFS)

The Transparent Sealing (RFS) can subsequently be applied on the glazed surface or the untreated material. For more information please see our Data Sheet for Finishes and Varnishes or go to www.resysta.de

If required, the colour can be refreshed. Therefore, the finish shall be mixed at a ratio of 1:3 with water and consequently be applied with a mop.

Please make sure to clean the surface beforehand. Refreshing the surface is only possible, if no transparent sealing (RFS) has been applied.

For information to heavy damage or dirt please refer to the information sheet under www.resysta.de



The Future Formula is Called Resysta.

Verwendete Rohstoffe:



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

All details provided apply to the installation according to this guide and the corresponding use during outdoor exposure

Tolerances in dimension are subject to production. Please inform your authorized dealer about obvious defects before installation.

This installation guide can be adapted to technical progress without giving notice. The current version can be downloaded from www.resysta.com

Subject to alteration. Abberations to the original colours, images or graphics are based on printing techniques.

www.resysta.com