



# INSTALLATION GUIDE

## RESYSTA DECKING



### 25 YEARS WARRANTY

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



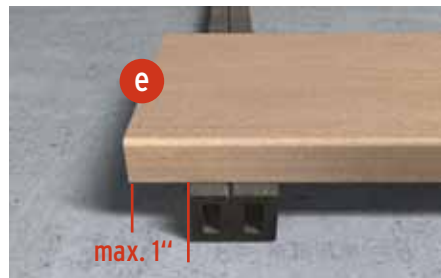
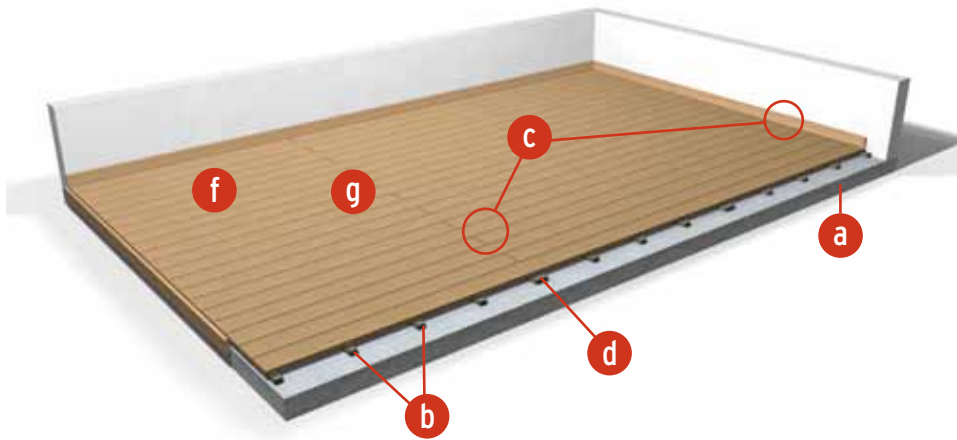


THE LATEST TEST RESULT - CLASS A FIRE RATING  
ASTM E84 FOR DECKING AND CLADDING PROFILES!

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 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 Resysta decking will conform to the surface of the substructure.

## c Expansion Joint:

always consider the linear expansion of Resysta 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.

Temperature at installation	End to End/ End to Width	Abutting Gap
Below 40°F	3/16"	1/2"
Above 40°F	1/8"	1/4"

## d Butt joints:

use a separate 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 depending on this.

## g Do not

combine two different Decking Profile in one installation (e.g. Platinum and Gold Decking Profile).

DECK	Standard	Part No.	Dimensions	Length	Commercial	Span	Corrugation	Installation
	SILVER DECKING	RESS340612	3/4" x 5 1/2"	12'	NO	12"	NO	FACE SCREW OR CAMO FASTENING SYSTEM
	GOLD DECKING	RESG010612 RESG010616 RESG010620	1" x 5 1/2"	12' 16' 20'	NO	16"	NO	RESYSTA CLIPS
	PLATINUM DECKING	RES010612 RES010616 RES010620	1" x 5 1/2"	12' 16' 20'	YES	16"	YES	RESYSTA CLIPS
	PLATINUM DECKING WIDE	RES010812 RES010816 RES010820	1" x 7 1/2"	12' 16' 20'	YES	16"	YES	RESYSTA CLIPS
	JETTY DECKING	RES020612	1 1/2" x 5 1/2"	12'	YES	20"	YES	RESYSTA CLIPS

## 2. Scope of Delivery

RESS340612 silver  
(W x H x L) 3/4" x 5 1/2" x 12'

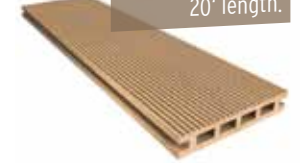


RESG010612 gold  
(W x H x L) 1" x 5 1/2" x 12'



Available in 12', 16', 20' length.

RES010612 platinum  
(W x H x L) 1" x 5 1/2"



Available in 12', 16', 20' length.

RES010812  
(W x H x L) 1" x 7 1/2" x 12'



Available in 12', 16', 20' length.

RES020612 jetty  
(W x H x L) 1 1/2" x 5 1/2" x 12'



RESF120812  
(W x H x L) 1/2" x 8" x 12'



RES010312  
(W x H x L) 3/4" x 2 3/4" x 12'



RESCLIP90



RESCLIP90



RESDOWEL3  
(Ø x L) 1/2" x 3'



RESEGE6  
(W x H x L) 1/2" x 1/2" x 6'



RESEND6  
(W x H x L) 5/8" x 5/8" x 6'



## 3. General Advice

Resysta Decking should be installed by an authorized professional.

- Do not cover the flooring with plastic foils or the like, neither in installed or un-installed condition. Condensation or backwater can lead to stains
- Resysta Decking can be processed with standard woodworking machines
- Only use sandpaper with a grit between 24 and max. 60
- Only sand in longitudinal direction

## Storage

- Please store Resysta 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:

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 (FVG)

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. 40° - 80°, 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).



We recommend to apply the finish before installation!

# 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

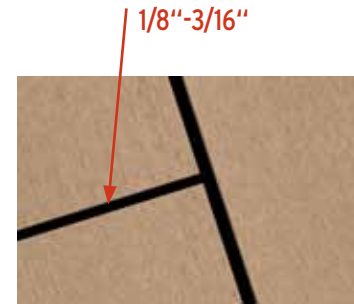
Please always consider the linear expansion of Resysta, which depends only on temperature and not, like in the case of wood, on air humidity. Please see below chart for the expansion at deviating material temperatures.

Temperature at installation	End to End/ End to Width	Abutting Gap
Below 40°F	3/16"	1/2"
Above 40°F	1/8"	1/4"

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 45° bevel at the end of the planks which conceals the expansion joint.



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

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



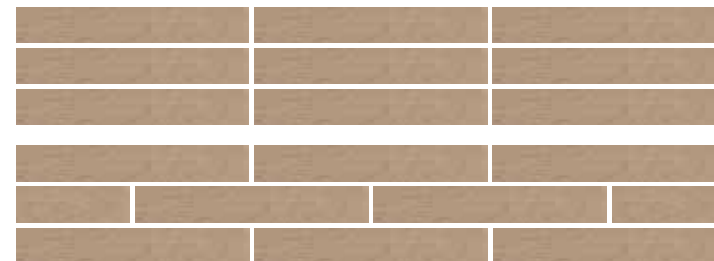
### Abutting Solid Objects

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.

## 5.2. Possibilities of Installation

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

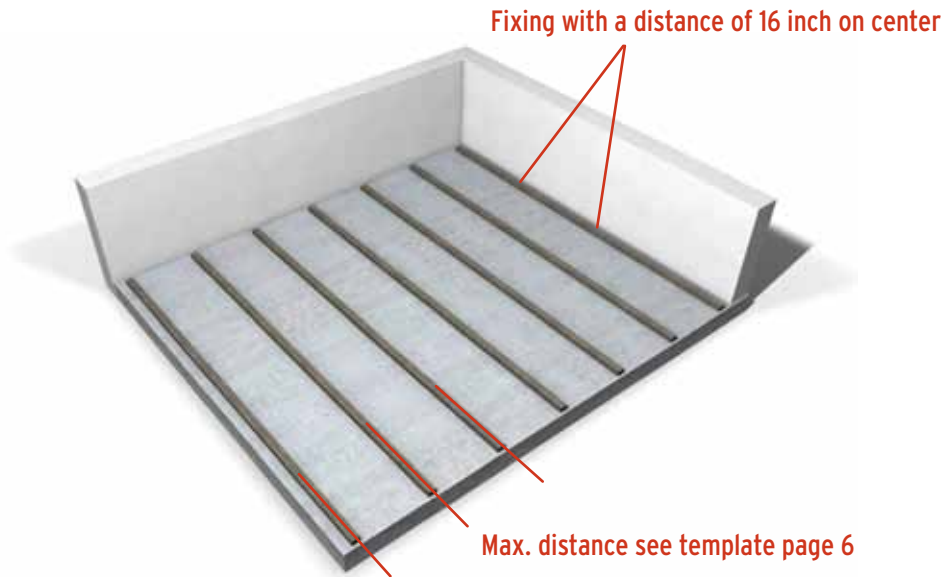
Examples:



# 5. Installation

## 5.3. Substructure

Resysta 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 Jetty-, Platinum- and Gold-decking

### Installation with non-visible screw and Resysta 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.



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 Jetty-, Platinum- and Gold-decking

### Installation with non-visible screw and Resysta metal Clip



Apply the clip.

**IMPORTANT: THE RESYSTA CLIP IS PLACED INTO THE GROOVE WITH THE TEETH FIRST!**



Place a clip on every joist.



Fasten the clip

Place a screw in a 45° angle and fix the clip holding the plank to the joist.



Use recommended clip at each end of the board.  
Place clip as close to the end as possible.

### Installation with non-visible screw and Resysta vinyl Clip



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 a clip on every other joist.



Place a screw in a 45° angle and fix the plank on the joist that was unclipped.



Use recommended clip at each end of the board.  
Place clip as close to the end as possible.

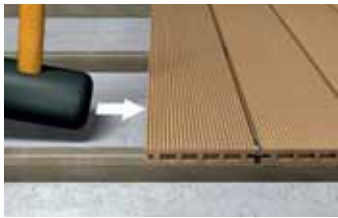




Insert plank at an angle.



Press plank onto the joist.



Tap thoroughly.

## 5. Installation

### 5.4.2. Installation of the Silver-decking

#### Installation with non-visible screw



Pre-drill the plank with CAMO tool.



Place screw into CAMO tool and fasten plank.

Install further planks with desired distance (we recommend 1/8" | 5mm), predrill and fasten them.

### 5.4.3. Installation of Resysta decking

#### Alternative - fixing with screws for terrace construction



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



Cautiously turn in the screw for terrace construction.



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

# 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



Apply PU glue.



Firmly insert the end cap into the groove.



Tap thoroughly.



Finish off 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. Application of the Transparent Sealing (RFS)

The Transparent Sealing (RFS) can subsequently be applied on the stained material. For more information please see our Data Sheet for Finishes and Varnishes or go to [www.resysta-usa.com](http://www.resysta-usa.com).

If required, the color 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.com](http://www.resysta.com).



# The Future Formula is Called Resysta.

Raw materials used:



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](http://www.resysta.com)

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

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