

INSTALLATION GUIDE

# ADJUSTABLE WOOD JOIST SUPPORTS



EDITION: APRIL 2022

**RESISTO.**<sup>®</sup>

## INSTALLATION GUIDE

### ADJUSTABLE WOOD JOIST SUPPORTS

Set of 10 ADJUSTABLE WOOD JOIST SUPPORTS, which are used to build wood decks on terraces. They can be mounted on the ground or on a roof to support a patio or a plaza deck.

They can be installed on any suitable and stable support designed to withstand the load of the complete system of ADJUSTABLE WOOD JOIST SUPPORTS.

**BENEFITS: PROTECT THE WATERPROOFING OF THE ROOF – HIGHLY RESISTANT TO SHOCKS AND LOADS – DURABLE AND RELIABLE – EASY TO INSTALL**

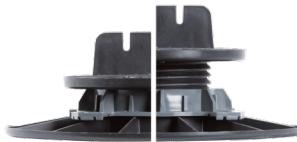
Different heights available:



8 to 20 mm  
(0.3 to 0.8 in)



25 to 40 mm  
(1.0 to 1.6 in)



40 to 60 mm  
(1.6 to 2.4 in)



60 to 90 mm  
(2.4 to 3.5 in)

### Materials needed to install the product:



#### SLOPE CORRECTOR

Accessory used to correct the slope of land or a roof up to 5%. Compatible with all sizes of ADJUSTABLE WOOD JOIST SUPPORTS



#### LEVEL



#### MEASURING TAPE



#### DRILL



#### WOOD JOISTS

Must be sized by a competent authority.



#### INSTALLERS

Two installers are recommended.



#### ADJUSTMENT KEY

A key used to adjust the height of the ADJUSTABLE WOOD JOIST SUPPORTS.



#### RESISTO JOIST GUARD (optional)

Self-adhesive waterproofing membrane used to protect exterior wood joists against rot and which substantially and inexpensively extends the duration of the patio.

## DESIGN

The **ADJUSTABLE WOOD JOIST SUPPORTS** allow the installation of the terrace directly on the roof, without mechanical fastening, and ensure a good flow of water. However, the construction of a plaza deck will require greater structural strength from an existing roof. It is therefore important that a competent authority carry out a complete analysis in order to determine the roof's capacity for additional loads.

The number of supports required during installation depends on several factors, including the size of the joists and the spacing between them. It is also necessary to take into consideration the load that the elements under the terrace can support. For example, if you have an element in your roof composition that has low compressive strength, it would be safer to use the method demonstrated in Figure 1. This method consists of attaching the joists directly to the **ADJUSTABLE WOOD JOIST SUPPORTS**. There are therefore more supports, which better distribute the load of the terrace on the roof.

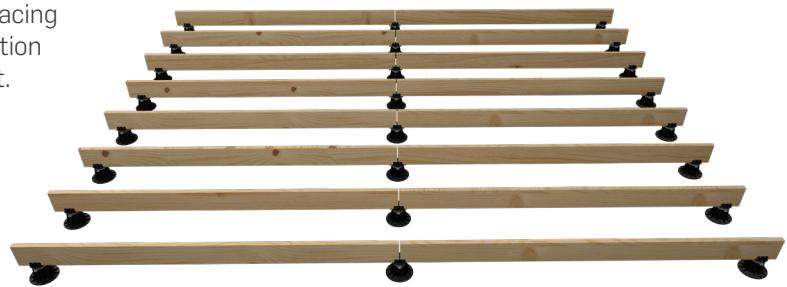


Figure 1 - Terrace on roof

When the terrace is installed on the ground or on a surface that does not require load calculations, there is less risk of damaging what is under the **ADJUSTABLE WOOD JOIST SUPPORTS**. It is still necessary to ensure that the soil is well compacted and that its composition is appropriate.

This means that a system with beams, which will require fewer supports, can be used as shown in Figure 2. However, it is still important to properly plan for the materials suited to your needs. You can consult the *Prescriptive Residential Exterior Wood Deck Span Guide (Canadian Wood Council)* for help in designing the structure. As regional wood-joist span requirements may be updated, it is the user's responsibility to ensure that the data in this guide still comply with the requirements.

## EXAMPLE

A 16 ft x 20 ft deck installed on the ground using a beam system as shown in Figure 2 would require nine (9) **ADJUSTABLE WOOD JOIST SUPPORTS** when the structural wood species is classified as SPF.

However, it is important to remember that each project is unique. Be sure to always check the local requirements for building decks in your area or confirm material usage with the manufacturer or wood retailer you choose.

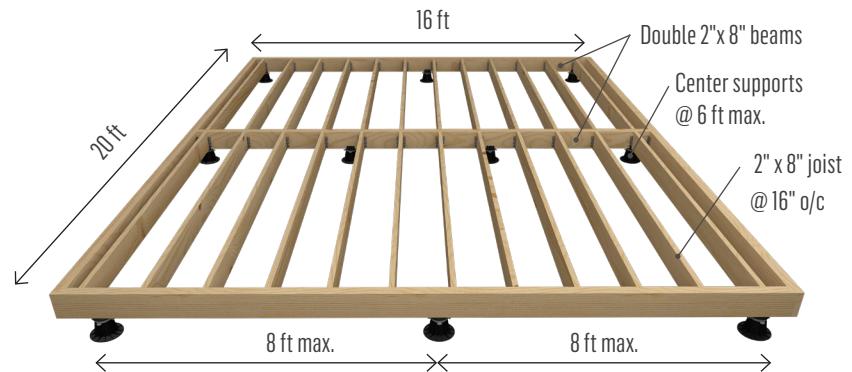


Figure 2 - Terrace on the ground

## INSTALLATION

**1** Calculate the number of **ADJUSTABLE WOOD JOIST SUPPORTS** you will need for your project.

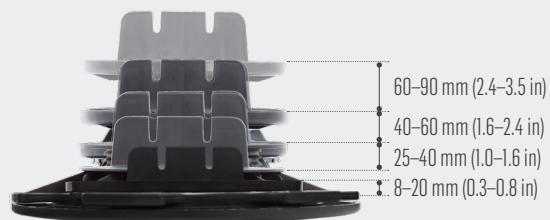
**2** Be sure to choose the supports that will allow sufficient adjustment in height according to the required height of the terrace.

**3** If necessary, use the **SLOPE CORRECTOR**. This accessory corrects the slope from 0 to 5% automatically, without adjustment (*Figure 3*). The **SLOPE CORRECTOR** is compatible with all **ADJUSTABLE WOOD JOIST SUPPORTS**. It can be used on uneven ground or roofs in order to correct the slope and thus produce a perfectly level patio or plaza deck.

The **SLOPE CORRECTOR** consists of two cups. One of them has a completely flat bottom. It is this one that should be placed on the ground. The second cup has to be placed on the first, to allow movement. Drop and interlock the **ADJUSTABLE WOOD JOIST SUPPORTS** on the second cup until you hear a "click", which will confirm that the parts are properly assembled in one piece (*Figure 4*).

**4** Install the wooden joists or beams on the **ADJUSTABLE WOOD JOIST SUPPORTS**, ensuring that the maximum range is respected (*Figure 5*).

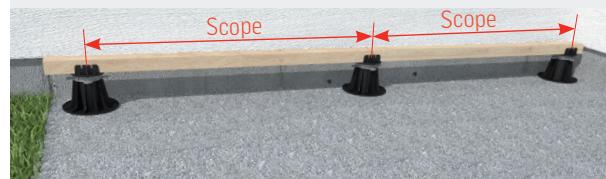
**5** If necessary, insert the **ADJUSTMENT KEY** into the supports' nut to adjust the height of the supports until the wood piece is level. Turn the **ADJUSTMENT KEY** clockwise to lower the pedestal's threaded screw, and turn it counterclockwise to raise it (*Figure 6*).



*Figure 3*



*Figure 4*



*Figure 5*



*Figure 6*

## INSTALLATION (continued)

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Now that everything is level, fix the **ADJUSTABLE WOOD JOIST SUPPORTS** into the structure (beams or joists) using screws suitable for the type of wood you are using (*Figure 7*).

Note that if you are using joists, you may need to install two joists end-to-end depending on the dimensions of your terrace. If this is the case, simply butt the two joists together, leaving about 6 mm (1/4 in) between them, and rest them centred on the **ADJUSTABLE WOOD JOIST PEDESTAL** so that a screw is fastened into each of the joists (*Figure 8*).

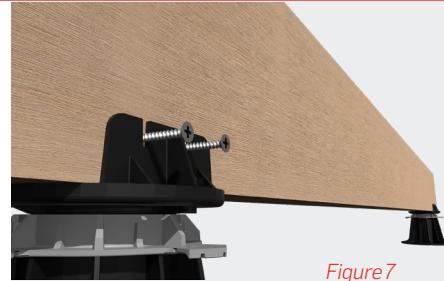


Figure 7

Joists



Figure 8

7

Install the **JOIST GUARD** on the structure to prevent the rotting of the structural lumber under the finishing boards. This step will substantially extend the life of the patio at little cost (*Figure 9*).

Use the 100 mm (4 in) wide rolls for joists and 230 mm (9 in) wide rolls for beams. It is important to roll the membrane roller over the **JOIST GUARD** after its installation in order to apply pressure to the entire membrane and obtain complete adhesion.



Figure 9

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Finally, install the finishing boards on the lumber structure following the instructions of the material of your chosen manufacturer (*Figure 10*).



Figure 10