

FUSIONLOC®

Collated Hidden Fastening System

Installation Guide



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AZEK Decking and TimberTech Decking should be installed using the same good building principals used to install wood or composite decking and in accordance with the local building codes and the installation guidelines included below. CPG Building Products LLC accepts no liability or responsibility for the improper installation of this product. AZEK Decking and TimberTech Decking may not be suitable for every application and it is the sole responsibility of the installer to be sure that AZEK Decking and TimberTech Decking is fit for the intended use. Since all installations are unique, it is also the installer's responsibility to determine specific requirements for each Deck application. CPG Building Products LLC recommends that all applications be reviewed by a licensed architect, engineer or local building official before installation. If you have any questions or need further assistance, please call AZEK Customer Service at 877-ASK-AZEK (877-275-2935) or TimberTech Customer Service at 800-307-7780, or visit our website at www.azek.com or www.timbertech.com.



STOP! Read this section before you start!

Always make sure to visit www.azek.com or www.timbertech.com to ensure you are viewing the most current installation instructions, care and cleaning, technical information, warranty information, and more.

FUSIONLoc[®] Hidden Fasteners for use with AZEK Decking and TimberTech Decking.

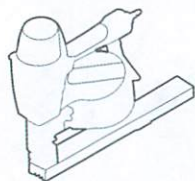
Important: Deck Board must be secured tightly and in full contact with the joist after each clip is installed. Not doing so could result in issues such as an uneven deck surface, noise, and board movement caused by an improper loose attachment.

FUSIONLoc & Accessory Installation Instructions

- FUSIONLoc Hidden Fasteners – packaged for 225-square-foot and 450-square-foot, at 16" O.C.. Includes Stainless Steel collated clips and collated screws.
- FUSIONLoc Gun for use with the fastener installation is sold separately by FastenMaster[®].
- Cortex[®] / L-Bracket – avoid face-screwing by using Cortex or the L-Bracket on first and last boards or as a butt seam clip to ensure a fastener-free surface. Note: Cortex and the L-Bracket should not be used with TimberTech Terrain or ReliaBoard.
- Router Bit – cut the correct groove dimension on a solid plank for a perfect FUSIONLoc fastener fit; it even allows for notching an installed plank over a joist.

TOOLS NEEDED

FUSIONLoc Gun



Safety Glasses



Router with Slot
Cutting Blade
(Optional)



Drill

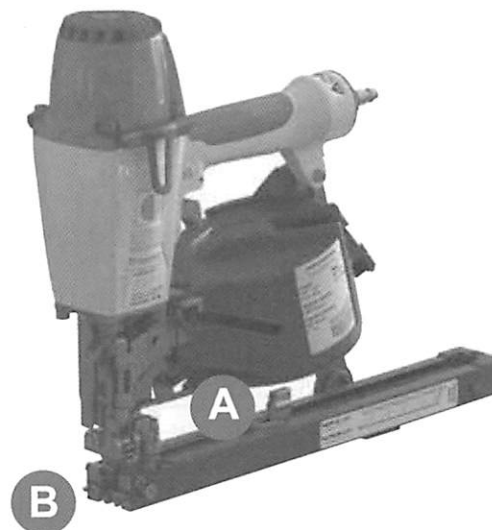


1

SET UP FUSIONLOC GUN

The steps noted below must be followed to properly adjust the FUSIONLoc Gun for the varying requirements of the materials and profiles used in AZEK and TimberTech Decking.

- 110-115 PSI must be maintained to properly sever the clips and drive the screws to the correct depth.
- Remove the Driver Blade Key from the back of the tool. (A)
- Use the Driver Blade Key to raise or lower the Driver Blade height. Holding the tool as you would when installing a clip, turn counterclockwise to raise the Driver Blade. (B)



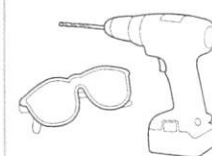
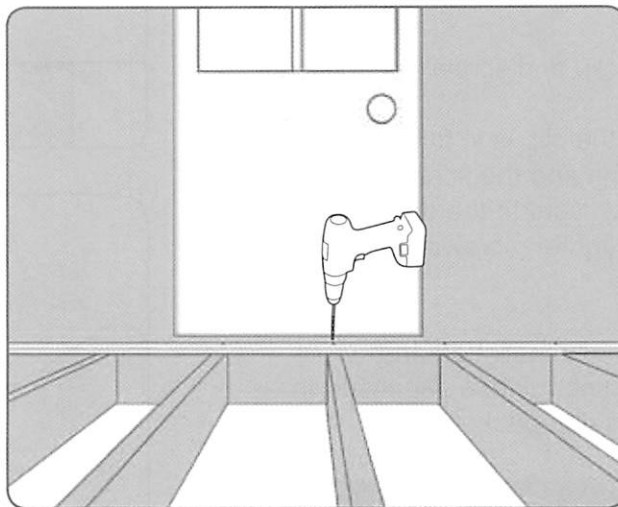
The driver blade should be set as high as it will go, while still severing the collated clip. If the clips are not severing, lower the Driver Blade height in 1/4 turn increments until clips sever.

Please use caution while operating the FUSIONLoc Gun. Air hose must be disconnected during all adjustments of the driver blade and when not in use.

2

INSTALL THE FIRST PLANK

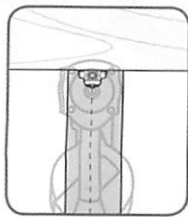
- Fasten outer edge of the first plank at each framing support 1" from the edge using recommended fasteners. For a complete fastener-free surface, the L-Bracket or Cortex can be used on first and last boards. Note: Cortex and the L-Brackets should not be used with TimberTech Terrain or ReliaBoard.
- For further L-Bracket or Cortex installation help please refer to the installation guide found online at www.azek.com or www.timbertech.com.



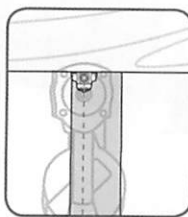
3

PLACE FUSIONLOC Gun INTO POSITION

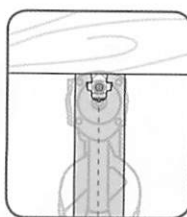
- Fully insert the FUSIONLoc fastener into grooved edge of plank.
- Center the gun on the joist and ensure that the gun is pushed flush to the plank.



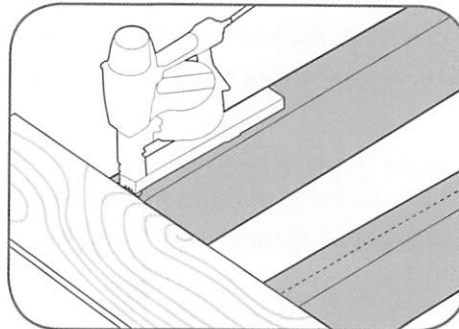
Correct



✗ Incorrect



✗ Incorrect

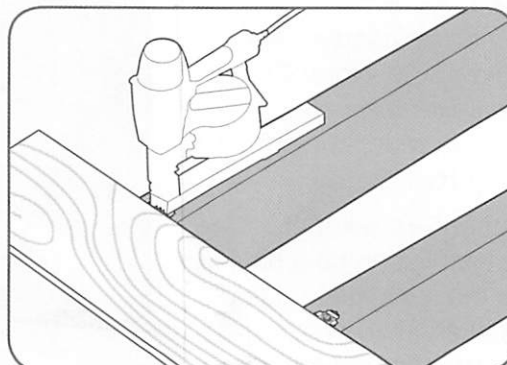
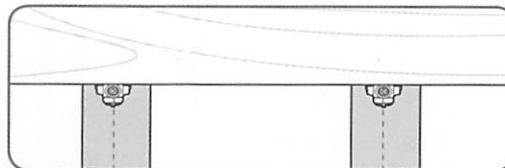


Correct

4

INSTALL FUSIONLOC FASTENERS

- Install fastener by simply positioning the FUSIONLoc Gun, then push down on the tool to engage the safety, and pull the trigger, while applying downward pressure on the deck board.
- Install one clip and screw at each joist.
- Make sure the clip is in full contact with edge of plank and the screw is holding the clip down tight to the deck board. If necessary, tighten screws using provided driver bit.
- For additional installation and troubleshooting, please see insert in FUSIONLoc gun packaging.



Deck board must be secured tightly and in full contact with the joist after each clip is installed.

5

COMPLETE INSTALLATION

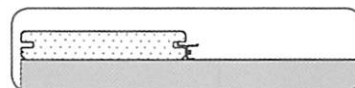
- Place the next plank into position against the clips. Slightly raise the outer edge of the plank being installed, and slide it onto the clip until the plank contacts the spacer tab. When properly installed the inserted plank should be in contact with the backside of the clip legs.
- Best practice dictates using a beater board at least 24" in length to drive the plank further onto the clip. Proper installation yields 3/16" spacing between deck boards.



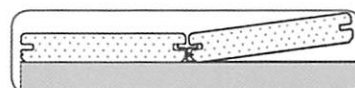
Do not use a hammer or damage to the edge of the plank will occur.

When installing AZEK or TimberTech decking always use a beater board against the side of the deck board.

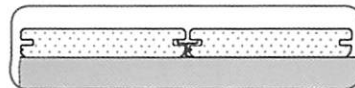
a.



b.



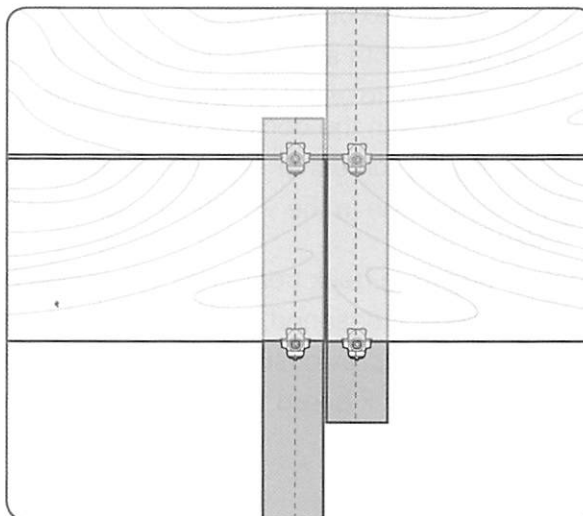
c.



6

HOW TO INSTALL AT BUTT JOINTS

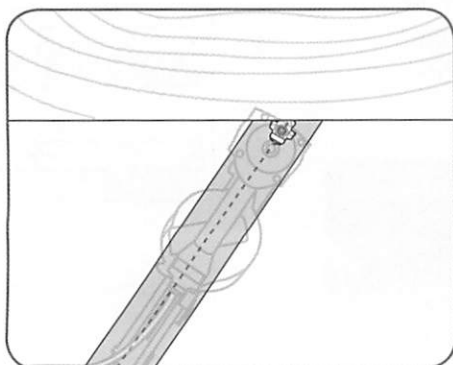
- Joists at butt joints must be doubled for proper fastener attachment.
- Install clips as detailed below.



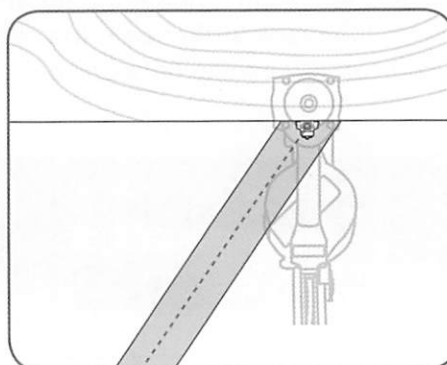
7

HOW TO INSTALL ON DIAGONAL

- When the deck is located in a corner of the house, start with small triangular piece of decking in the corner and work your way out.
- Center the FUSIONLoc gun on the joist structure and install a clip.
- Ensure the clip is installed on the center of the joist for maximum purchase into framing members.
- For diagonal joist spacing, please refer to the install guide found online at www.AZEK.com and www.timbertech.com.



✗ Incorrect



Correct



Deck board must be secured tightly and in full contact with the joist after each clip is installed.

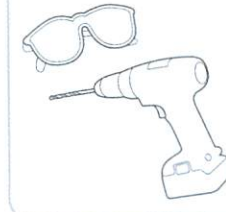
8a

HOW TO REMOVE A DECK PLANK

- First, pick the interior board to be extracted.
- Next, loosen the screw on both sides of this board using the provided TX10 Bit.
- Please note, do not attempt to withdraw the screw at this time. The head of the screw should not make contact with the decking material.
- Insert a wedge into the gap on either side of the board to be removed.
- Carefully pry the groove open in the vicinity of a loosened screw until the head of the screw is completely visible.
- Take care to not damage the deck boards on either side of the gap.
- Now, Extract the previously loosened screw.
- Repeat this process until all previously loosened screws are removed.
- You can now pry up your deck board without damage.

8b

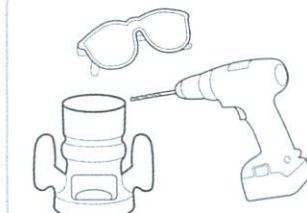
HOW TO REPLACE A PLANK



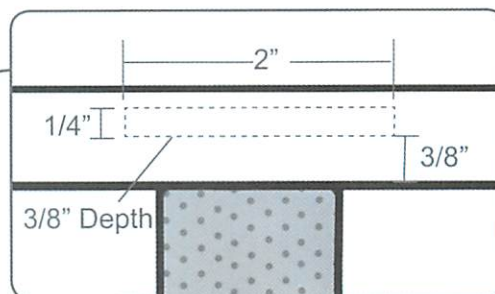
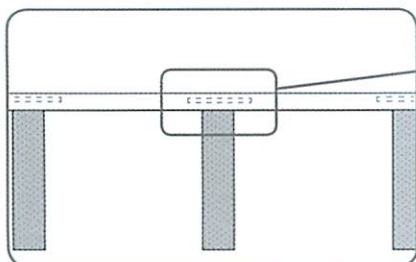
- With all of the screws removed you can now pry up and remove the deck board.
- Before installing a new board, clear all debris from the top of the exposed joist.
- Using loose clips, install FUSIONLoc clips into the trailing groove of the leading deck board.
- Remember, the previous clips were removed during the extraction process.
- The clips should be left just slightly loose to facilitate installation of the subsequent deck board.
- Separate, by hand, collations of hand drive FUSIONLoc screws. Select the correct amount of individual clips to match the number of corresponding joists.
- Place the remaining deck boards into position. Slightly raise one side of the decking plank and slide the separated hand driven FUSIONLoc clips into the abutting grooves.
- Once the remaining boards are set in place, slide the separated hand driven FUSIONLoc clips in position over the corresponding joist.
- When all clips are in place, carefully drive the fastener into the groove. Use a wedge to widen the gap between deck boards. This will enable the head of the screws to clear both board surfaces on installation.
- Once all hand driven FUSIONLoc clips are secured, revisit clips in the grooves just ahead and behind, tightening the clips in those grooves as well.

9

TO USE FUSIONLoc® HIDDEN FASTENERS WITH AZEK PVC SOLID DECK BOARDS



- Create a 2" long groove on the edge of the plank at every joist.
- Use CONCEALoc Groove Cutting Router Bit or a Freud model.
- #56-112 or Bosch model #85610M 1/4" slot cutting bit.
- Flip the plank over and start the groove 3/8" off the bottom of the plank.
- Set the depth of the cut from 7/16" to 1/2" deep.



- Do not groove the full length of the deck plank. Only notch 2" in width above the joist.



Do not use FUSIONLoc® Hidden Fasteners or L-Brackets for stair installation.



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