

DeckMasterTM



1300 939 041

A deck without any visible fasteners!



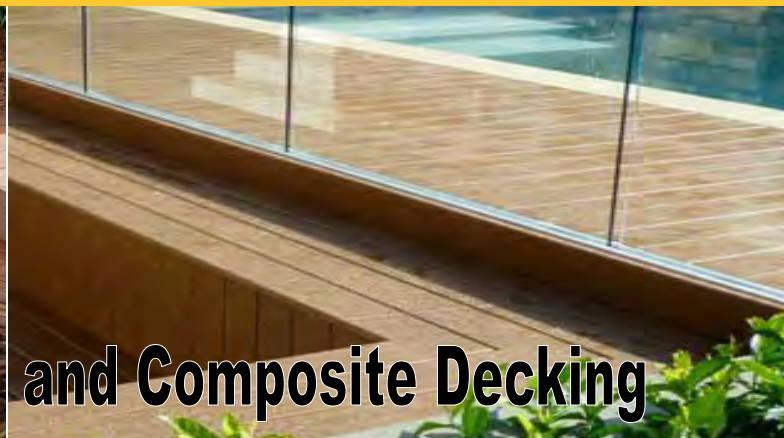
Installation Pack

May 2012

Secret Fix End Matched Decking System



The Ultimate Decking System !



Suitable for Hardwood and Composite Decking



Secret Fix Clip



Pneumatic Screws



Insert Clip



Position Gun Into Grooved Decking & Shoot !



Installed Clip

DeckMasterTM.com.au

Innovative Fastening Solutions

Tiger Claw
Hidden Deck Fasteners

TIMBER
QUEENSLAND

WOOD
NATURALLY BETTER

DECKBONE

SCRAIL[®]
The Faster Fastener[®]

TC Gun / TCG-150 Clip Installation Instructions

Important Notes

Before installing decking that is less than 22mm thick it is essential that Deck Master Weather Strip has been laid on top of the joists correctly as outlined in the Weather Strip Instruction Sheet.

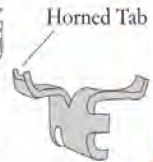
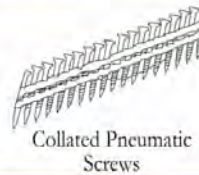
In the case that the decking to be installed is 22mm or thicker Do Not Use Deck Master Weather Strip. In this instance it is recommended to use a Flat Weather Strip for joist protection but not essential.

GETTING STARTED / INSTALLATION TIPS

IMPORTANT: Read all instructions carefully and completely to ensure proper installation.

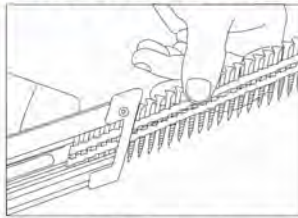
WARNING: Parts have sharp points & edges. Use extreme caution when handling & installing. Wear safety glasses at all times.

Tools & Materials Needed



Step 1

INSERT PNEUMATIC SCREWS



Insert a sleeve of collated pneumatic screws into the rear of the magazine.

Step 5

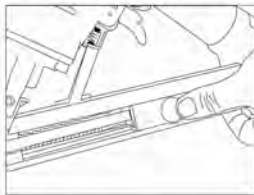
INSERT IN GROOVE



Holding the gun upright, insert the horned tab into the groove of the deck board directly over the support joist.

Step 2

LOCK IN POSITION



Pull back the spring coil until it locks onto the back of the sleeve.

Step 6

POSITION / ANGLE



Once fastener is fully inserted, apply pressure to disengage the safety. Then lower the back of the gun allowing the magazine to sit on the support joist to assure correct angle, and pull the trigger.

Step 3

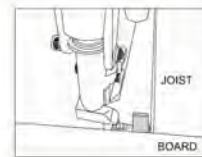
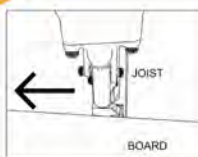
AIR / PRESSURE



Attach air hose. Be sure line pressure is 80-100 PSI. (Pressure adjustment may be needed depending on framing material density)

Step 7

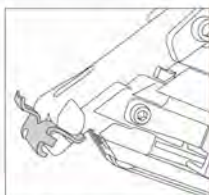
REMOVE



With the magazine still resting on the joist, slide the nose of the gun to the right removing it from the attached fastener.

Step 4

MOUNT FASTENER IN GUN



With horned tab points outward insert the opposite tab into the nose of the gun.

Repeat until deck is complete

Always keep fingers clear of barrel

Never let gun point at body while connected to air supply

DO NOT pull trigger while safety is deactivated

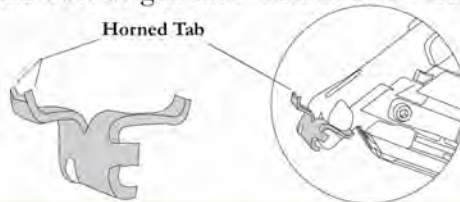
Safety / Installation Tips

Safety

1. **Safety is the #1 priority**
2. **Always wear safety glasses**
3. **Make sure air hose is always disconnected when gun is not in use**
4. **Never point gun barrel at your body or anyone else**

Inserting Fastener

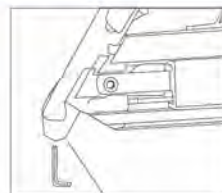
Place fastener into nose of gun with “horned tabs” sticking outwards from of gun nose.



Adjust/Replace Retaining Ball

Adjust

1. Disconnect air supply to gun.
2. Insert fastener into tool.
3. Insert hex key provided into set screw at tip of nozzle.
4. Adjust until desired fastener holding tension is obtained.



Replace

1. Disconnect air supply to gun.
2. Use hex key to remove set screw.
3. Remove and replace ball bearing and rubber compression spring.
4. Reinstall set screw and adjust to instruction above.



NOTE: During use occasional adjustment may be required.

Trouble Shooting

1. When clearing a jam disconnect the air hose to assure no accidental misfire.
2. If gun double fires: pull slightly up while rotating the gun clockwise and pull right.
3. When in use, pressure adjustment may be needed depending on framing material density. Recommended pressure is 80–100 PSI.
4. Be sure the air pressure is at the correct PSI when you reconnect air hose.

Collated Pneumatic Screws

1. Recommended collated pneumatic screws are ACQ & CCA approved
2. Screw coating last 3 times longer than Hot Dipped Galvanized screws during salt spray test.
3. Pneumatic screws can be removed after firing with standard Philips screw driver.
4. After firing, visually inspect each screw to make sure it is fully installed.
Adjust air pressure as needed

NOTE: Installation Gun is designed with a “Lock Out Safety” Gun will not fire when only 5 screws are left in magazine. Once reloaded, gun will function normally.

**For proper gun maintenance and care please refer to Operation Manual.
Air compressor and hose not included.**

Please Note: The TCG 150 Clip System is NOT suitable for Softwood / Pine Decking.
TCG 150 Clips can be used with Durable Hardwoods & Composites as listed on the website.
Only Use the TCG 150 Clip System with Grooved Boards from an approved supplier.
If grooving the board on site be sure to follow the TCG Groove Dimensions noted on Page...4



Board Installation

GETTING STARTED / INSTALLATION TIPS

IMPORTANT: Read all instructions carefully and completely to ensure proper installation.

WARNING: Parts have sharp points & edges. Use extreme caution when handling & installing. Wear safety glasses at all times.

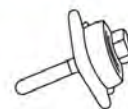
Tools That May Be Required



Safety Glasses



Power screw gun with ratcheting torque setting



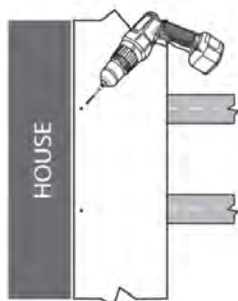
Tiger Claw Slot Cutter



Router

Step
1

INSTALLING THE THE FIRST BOARD



Fasten one edge of the first board at each framing support using a S/S Starter Clip or a quality 50mm screw. Screw & Plug(Dowel) is another option. It is important that this board is straight and well secured.

Step
3

INSTALL FIRST FASTENER

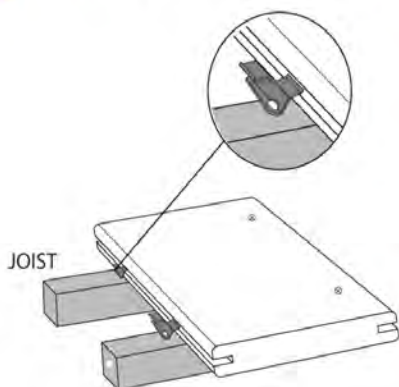


While standing on the deck board and applying downward pressure against the starter clips, insert the TC-Gun with clip attached into the grooved edge of the deck and fasten. Install one fastener on each support joist

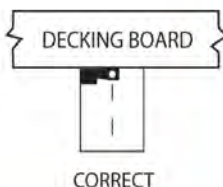
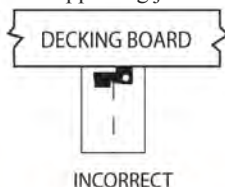
Make sure the fastener body is vertical to the deck board and the scrail is holding the fastener down tight. Adjust your line pressure if necessary.

Step
2

POSITION FASTENERS

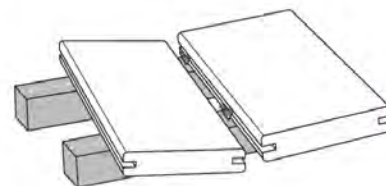


Fully insert the TCG fastener into grooved edge of the deck board. The right hand side of the TCG Clip should be hard against the left hand side of the Weather Strip Raised Section or when not using Weather Strip line up the scrail with the middle of the supporting joist.

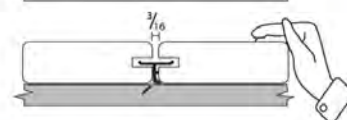


Step
4

COMPLETING INSTALLATION OF BOARDS



- a. Place next deck board into position against fasteners. Slightly raise outer edge of board being installed and slide board onto fastener until board contacts spacer tabs.



- b. Check gap between boards for consistency. Apply force to ensure board is fully installed.

Repeat steps 2 thru 4 until deck is complete.



HELPFUL TIPS

Coverage

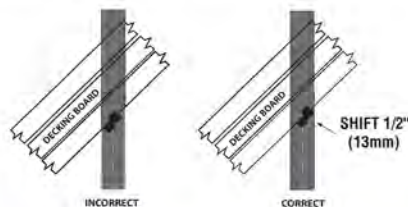
- Multiply the number of joists by the number of decking boards to equal the number of fasteners needed.
- For more information regarding coverage please visit our website www.deckmaster.com.au and follow the estimator link.

How do you attach the last board?

To finish we recommend using Side / End Fix Starter Clips. If the last board needs to be trimmed removing the groove insert new grooves at a maximum of 450mm centres using the TCG Router Cutter or a Biscuit Cutter. Alternatively surface fix Coloured Trim Top Screws can be used. Also screwing and plugging is another option. More information on Starter Clip installation can be found in the products area of the Deck Master Website.

45° angle installation

When deck is in the walled corner of the house: always start with small piece of decking in that corner and work your way out. **When installing TC Fasteners,** offset the center 1/2" (13mm) towards the long point of joist, so screw will not exit side of joist when driven.



Note: When raised Weather Strip is being used the Butt Seam Reverse Clip will be required to fasten on the angle shown above. When the boards are on the opposing 45° angle use the standard TCG150 Clip.

Installing the DeckBone End Matched Joiner

The DeckBone End Matched Joiner is designed to butt join your decking boards OFF or ON the joist. Wherever the board ends that is where you join it. If the deck board lands on a joist make sure that the screw will be no closer than 10mm from the edge so the screw can successfully fasten through the DeckBone into the joist. After the first board is in position insert the whole DeckBone into the end groove. Alternatively when the board is wider than the DeckBone snap the DeckBone in half and insert one half of the DeckBone in the rear section of the end groove. Position the next board in place by sliding the board into the DeckBone. If necessary tap the end of the board you are installing with a rubber mallet to make sure the butt joint is nice and tight. Insert the other half of the DeckBone to complete the butt joint.

Deck Boards 84 - 100mm □ Use **DeckNone 100**

Deck Boards 133 - 150mm □ Use **DEckBone 150**

Please Note: Stagger your joins - Do Not Join DeckBones Side by Side In The Same Span
Use 40mm S.S. Deck Screws when fastening DeckBone to joist.

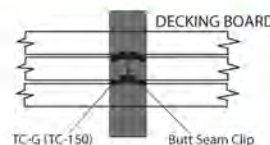
Straightening Bowed Boards

To straighten bowed boards use the Deck Master Universal 450mm Deck Clamp. The clamp is specially designed to fit between the gap between deck boards. For difficult boards you may need to either stand on or clamp down the board you are straightening to prevent the board from lifting.

NOTE: When using material with expected expansion greater than 1/8" (3mm), in width allow additional spacing between deck boards. (Check with your lumber supplier for expected expansion in your area.)

How to do a butt seam

For TC-G (TC-150): Butt Seam clip is available to use with the TC-G (TC-150)



When not using the DeckBone End Matched Joiners it is then necessary to use a Butt Seam Clip when butt joining deck boards on a single joist. Install the deck boards from left to right, this way you can still use the Gun to install the TCG150 fastener at the end of the boards. Install all Butt Seam Clips using a cordless screw gun with the correct clutch setting applied so as to not overtighten the screw. Use the supplied screws and driver bit that come inside the Butt Seam packet. Install the screw through the hole in the clip at a 45 degree angle into the joist. Be sure to install one Butt Seam Clip on the opposing side before installing the next deck board.

If using Deck Master Weather Strip it will be necessary to raise the height of the deck board that isn't being raised by the Weather Strip. Cut a piece of Riser Strip the same width of the board and install underneath the board to be raised.

How to replace a board

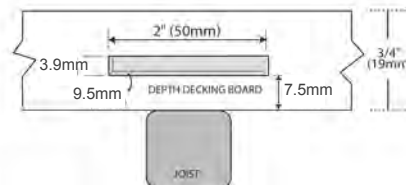
- Using a Reciprocating Saw or small Angle Grinder remove the tabs on the side of the board with the screw heads showing.
- Using a small pry bar remove the decking board.
- Position new board into place, and carefully drive into remaining tabs.
- Secure the other edge by fastening Side Fix S/S Starter Clips to the underside of the deck board. Otherwise screw into place by using surface fix coloured Trim Top Screws or alternatively use a screw and timber plug dowel.



To use the TC-G Fastener on solid edge boards

Use a router to create a groove at every intersection of the deck board and support joists, or groove the entire edge of the deck board.

Use with Tiger Claw TC-150 Slot Cutter to create the grooves as shown below.



NOTE: When using 19mm Decking The groove should start 7.5mm above the BOTTOM of the deck board.

NOTE: When using 22mm Decking or thicker the groove should start 10.5mm above the BOTTOM of the deck board.

NOTE: The groove should be at least 9.5mm Deep.



For more information please contact 5 Star Timbers
E. sales@5startimbers.com.au

SCRAIL[®]
The Faster Fastener[®]

www.5stardecking.com.au

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Deck Master System Installation Notes

➤ Weather Strip

Before Installing the Weather Strip please read the instructions to be sure that the Strip is installed correctly. Take note that on the far left joist the Weather Strip must be flush with the outside of the joist, not centred as per all other joists. Be aware to install the TCG clips on the furthest left joist hard up against the rubber raised section of the Weather Strip which will ensure that you do not cut through the TC-G clip when trimming the decking flush with the outside of the joist. [Deck Master Weather Strip Installation Guide](#).



➤ Overhanging the Deck Boards

Before firing the TC Gun into the deck board on the first and last joist be sure that the board is overhanging the joist by a minimum of 50mm and that adequate downward pressure is applied to the deck board where the board is being fastened. These steps will prevent the pressure of TC Gun splitting the bottom of the grooved board. This will also allow the boards to be cut off neatly when the deck is completed.



Butt joining the ends of the deck boards can be done by fastening the DeckBone onto the joists by using the Deck Master 40mm Deck Screw. Fasten with a cordless screw gun with the clutch set on a light setting. This is only suitable when the boards land in the centre area of the joist and there is no possibility of the screw splitting the joist. **Preferably** by choosing another board that stops short or hangs past the joist by a minimum of 30mm the deck boards can be joined off the joist which is a faster method. If the end of the board lands within 30mm from the edge of the joist choose a different length board as the DeckBone will obstruct the TCG Clip installation.

➤ **Fixing Alongside Walls & Posts**

If you have difficulty inserting the gun along side walls or posts please use a Butt Seam Reverse Clip to fasten the board into position. Please note that Butt Seam Reverse Clips cannot be secured using the TC-Gun. Simply screw the Butt Seam Reverse clips in position by using the supplied screws and driver bit. Fasten with a cordless screw gun with the clutch set on a medium setting.



➤ **Fixing Joined Deck Boards Around Posts**

When the deck boards need to be joined around posts or walls and you are not able to slide one board into another at the butt joint, join the boards together with the DeckBone in one long length and then install the boards as one.



➤ **Starter Board Joining & Ripping**

Install the first board in one straight piece if possible, if you have to join the first board please see the instructions regarding [Starter Board Joining](#). This document will explain how to join boards with 2 of Top Fix Starter Clips and half of a DeckBone.

Ripping the first board so that you can finish with a complete board or a desired overlap rather than ripping the last board can be achieved by firstly using the [Starter Board Calculator](#) on the Deck Master Website Estimator page. After inserting your details into the calculator the size of the Starter Board will be displayed. Then proceed to rip down the starter board to the correct width. You may choose to just start laying your decking and sort out the end when you get there. If this is the case and you are installing deck boards smaller than 100mm in width it is recommended that you order a wider non grooved board to finish with which will give you more options on your last board.



Please Note: Choose straight boards for the first three rows of decking as you will not be able to use the decking clamps until three rows have been installed.

➤ Fastening the Last Board

Before ordering your decking choose how you would like to finish your decking. If you would like to finish the last board with the edge overlapping and exposed then order a non grooved deck board to finish. This way you can groove one side of the board on site using the Deck Master Router Slot Cutter to enable you to push the deck board into the clips and then overhang the other side of the board and fix using the End Fix Clips or top fix using Coloured Trim Top Screws or alternatively plug and screw.



The last board can be fastened using the following methods.

1/ End Fix Clip – Deck flush with outside bearer / perimeter beam. Insert the small section of the End Fix Clip into the groove and fasten the longer section into the outside of the bearer using the 40mm Deck Screw, while applying downward pressure on the board.



2/ End Fix Clip – Deck Overhanging the bearer / perimeter beam. Position the last board and mark the underside of the board where the outside of the bearer meets the last deck board. Turn the board over and fasten the End Fix Clips at a maximum of 450mm centres along the marked line. Position the clips so the small section of the bracket will be facing away from the bearer when it is installed. Fasten the End Fix Bracket through the small section of the Clip to the underside of the deck board using 2 of the 16mm Bracket Fix Screws. Insert the deck board and fasten the End Fix Clip to the bearer through the long section of the bracket using 40mm Deck Screws.



3/ Top fix coloured Deck Master Trim Top S/S Countersink Screws. Choice of three colours Morado Brown, Sahara Beige, Redland Rose.



4/ Hidden screw and timber plug.
Cut timber plugs from decking off cuts.



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Weather Strip Instructions

Timber Joist Installation

- 1/ Install the Weather Strip rubber joist flashing to the top side of your timber joist. The Weather Strip suits joists up to 50mm in width. Start to fix the Weather Strip at the same end of the joist where you are going to start fastening your decking. Be SURE to place the Weather Strip with the wider flat rubber section to the left side of all the joists when facing your starting point as shown in diagrams below. On the far left hand side joist (Facing Starting Point) move the Weather Strip to the right so the Left Side Flap is Flush with the side of the Joist. On all other joists fasten the Weather Strip with the Fold on the Left Hand Flap directly above the edge of the Left Hand Side of the Joist.
- 2/ Fix the Weather Strip to the joist by using either corrosion class 3 staples or small brads through the thickest part of the Weather Strip.

Facing Starting Point



Diagram 1

Wider Section to the left hand side.

Insert Fastener

Far Left Hand Joist Only.

Move the edge of the flap over to the right so the edge of the flap is flush with the side of the joist.

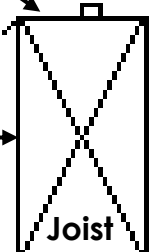


Diagram 2

Steel Joist Installation

- 1/ Position the Weather Strip as described above for Timber Joist Installation.
- 2/ Fix the Weather Strip to the joist by using a suitable spray on glue. Trim-Tex 847 works very well and is available from Boral Plasterboard outlets.

Please Note: For more instructions regarding the Deck Master system please see our web site.

www.deckmaster.com.au



Butt Joining a Starter Board

Joining on a Joist

- If the end of the deck board is positioned on a joist install two Top Fix Starter Clips either side of the raised section of the Weather Strip as shown in diagram 1. Cut two strips of Riser Strip wide enough to cover the underside of the deck boards that are to be installed.



Diagram 1

- Insert the deck boards into the starter clips and then place half of a Deckbone in the other side of the installed deck boards as shown in diagram 2.



Diagram 2

Joining on Blocking or Pole Plate

- If the end of the deck board is positioned over a block or pole plate install Weather Strip on top of the block or pole plate and then fasten two Top Fix Starter Clips either side of the centre of where the deck boards are going to be joined as shown in diagram 3.

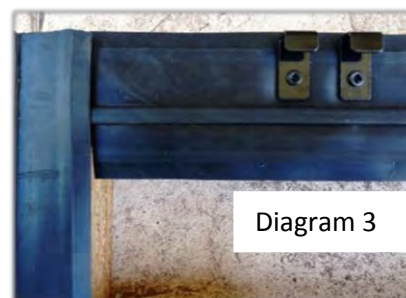


Diagram 3

- Insert the deck boards into the starter clips and then place half of a Deckbone in the other side of the installed deck boards as shown in diagram 4.



Diagram 4

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Installation Guide

DeckBone End Matched Joiner

The DeckBone End Matched Joiner is designed to butt join your decking boards OFF or ON the joist.

If the deck board lands on a joist make sure that the screw will be no closer than 10mm from the edge of the joist so the screw can successfully fasten through the DeckBone into the joist. If need be simply choose a different length board. When installing on a joist fasten the DeckBone with Deck Master Deck Fix 40mm x 8g S/S Screws. Be sure to use a soft clutch setting on your cordless drill.

If the end of the board lands within 30mm from the edge of the joist choose a different length board as the DeckBone will obstruct the TCG Clip installation.

After the board is in position snap the DeckBone in half and insert one half of the DeckBone in the rear section of the end groove. Position the next board in place by sliding the board into the DeckBone. If necessary tap the end of the board you are installing with a rubber mallet to make sure the butt joint is tight. Insert the other half of the DeckBone to complete the butt joint.

Deck Boards 84 - 100mm
Deck Boards 133 - 150mm

Use DeckBone 100
Use DeckBone 150



Please Note:

- Stagger your joints.
- Do Not Join DeckBones Side By Side In The Same Span.
- Use 40mm S.S. Deck Screws when fastening DeckBone to joist.
- Decking boards **MUST** span / cantilever over one or more joists before joining with a Deck Bone.



1/ Insert Rear Half of DeckBone



2/ Insert Next Decking Board



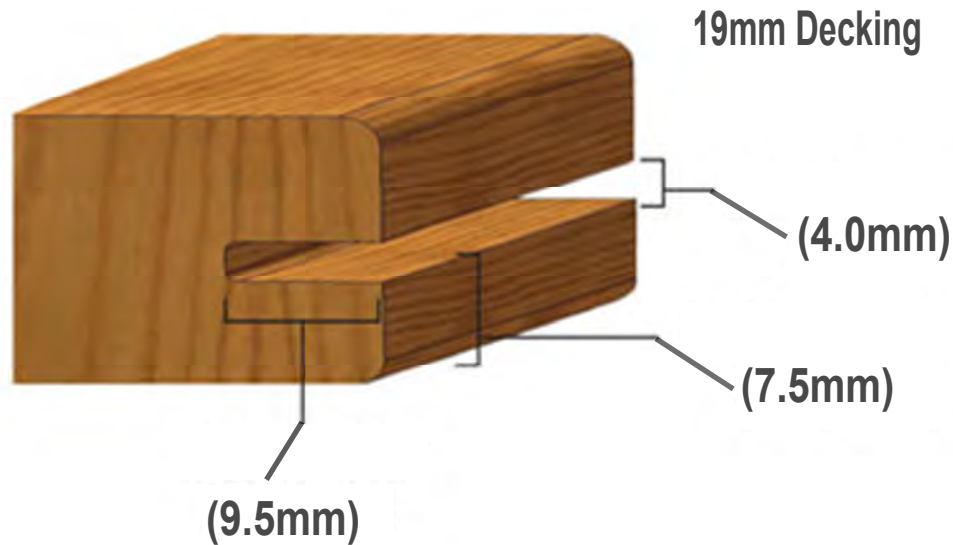
3/ Insert Front Half of DeckBone

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TCG 150 Deck Profile

D.I.Y. Router & Biscuit Cutter Groove Dimensions



Notes: When Using 19mm Decking Deck Master Weather Strip Must be Used Under the Decking Boards

When Using 22mm or Thicker Decking Do Not Use Deck Master Weather Strip & Change Base Height of 7.5mm to 10.5mm

Please Note: D.I.Y. profile is only suitable for Router Slot Cutter & Biscuit Cutter.
Profile is Not to be used by Timber Suppliers and Millers.
Deck Master Decking can only be produced & sold by Licensed Producers.
Please contact Deck Master for more details

Distributed By:



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Starter Board Width Size Calculator

Please Enter Your Details Into The Red Boxes

Decking

Enter Width of **UNDERSIDE** of the Deck Board mm mm
Coverage of boards is calculated by adding 4.5mm to the width of the bottom of the deck board.

Width of Starter Board - Left Hand Side

Enter Your Total Deck Width - Left Hand Side mm mm

Total Rows of Deck Boards Rows

Overlap of Last Board mm mm

Enter Desired Overlap of Last Board mm mm

Cut Starter Board On Left Hand Side To: mm Wide

Width of Starter Board - Right Hand Side

Enter Your Total Deck Width - Right Hand Side mm mm

Total Rows of Deck Boards Rows

Overlap of Last Board mm mm

Enter Desired Overlap of Last Board mm mm

Cut Starter Board On Right Hand Side To: mm Wide

For More Coverage Information Please follow the Estimator Link on

Please Note: All Calculations are a guide only
During Installation check parallel width every six rows of decking