

### IMPORTANT - ELECTRIC SCREWDRIVER ADJUSTMENT :

Adjust the torque and the speed of your electric screwdriver properly to avoid breaking screws or damaging fasteners. Impact screwdrivers should be avoided. Try on an off-cut first.



#### Kit contents :

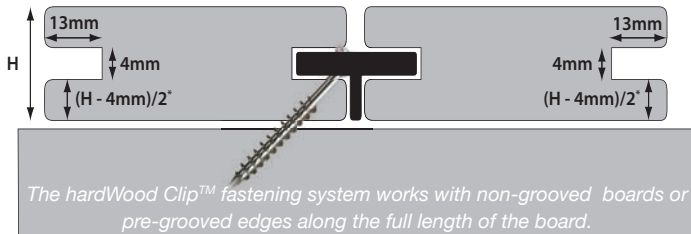
- (185) Hidden Deck Fasteners
- (200) A2 Stainless Steel SPAX® Screws
- (1) Torx Driver Bit
- (12) Tapered Ipe Plugs

- (3) Spacer Tools (for the ExtremeKD™ model only)
- (1) Instructions Sheet

#### Tools needed :

- Electric screwdriver
- Lamello® type groove cutter for boards (only if using non-grooved boards)
- Hardwood Wrench™ tool for straightening bowed boards

## Profile and dimensions for groove-cutting boards



- \* (1) **Board revertibility** : Position groove at the centre of the board edge. The groove position is calculated using the following formula:  $(H - 4 \text{ mm}) / 2$  where "H" represents the board thickness. Example: For a board that is 21 mm thick, the lower edge of the groove should be positioned 8.5 mm from the bottom of the board.
- \* (2) The lower edge of the groove cannot be positioned less than 8 mm from the bottom of the board.
- \* (3) **Maximum "H"** : The groove position must take into account the length of the screws used.
- \* (4) **Board spacing** : The spacer\* integrated into the fastener automatically spaces boards evenly apart.

## Installation steps

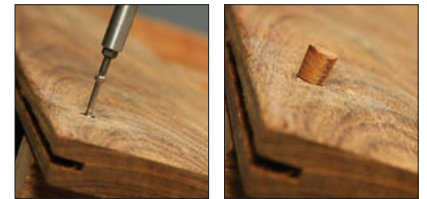
## PRE-GROOVED BOARDS

There must be a fastener at every bearing point where boards touch on joists, whether in the middle or at the end of the board.

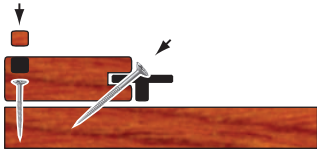
### 1 Installing the first board



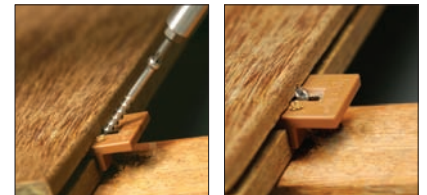
On the outside edge of the first deck board, drill 10 mm wide holes that are approximately 10 mm deep on the top of each joist. Screw the outside edge of the board to the joist with the self-drilling screws included with the kit. Insert the plugs included in the kit into the predrilled holes and attach them with polyurethane glue (not included). Remove the part of the plug that protrudes above the board.



### 2 Installing fasteners



Insert the hardWood Clip™ fastener into the deck board groove. Screw the fastener to the board using a self-drilling screw at approximately a 45° angle. The screw must go through the deck board and down into the joist to make the deck more solid. The screw head must be level with the hardWood Clip™ fastener. Repeat on each joist.



**For composite boards: Screw down the fastener onto the joists. Screw down straight (at a 90° angle) through the centre of the fastener.**

### 3 Installing the next boards



Install the next board onto the structure by sliding it toward the last board installed. Slide the groove of the board to be installed onto the fasteners until it abuts the integrated spacer\*. Repeat steps 2 and 3 until the last deck board is installed.



**Using hardWood Clip™ ExtremeKD™ fasteners: Use the spacers supplied to ensure that fasteners aren't crushed when bowed boards are straightened.**

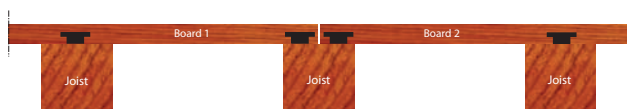
### 4 Installing the last board



Repeat Step 1 to attach the outside edge of the last board.



## Installing boards end to end



Boards must be positioned end to end on a joist and attached with two fasteners. Place a fastener at each end of the boards while ensuring that the screw is at least 20 mm from the end to prevent the wood from splitting.

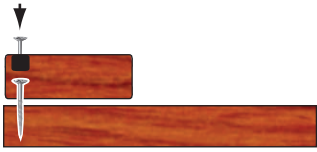
\*also called the fastener 'spacer tab'

## Installation steps

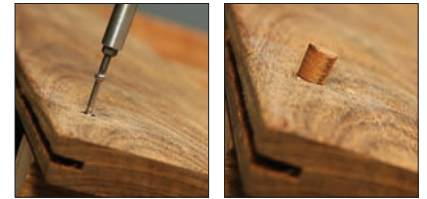
### NON-GROOVED BOARDS

There must be a fastener at every bearing point where boards touch on joists, whether in the middle or at the end of the board.

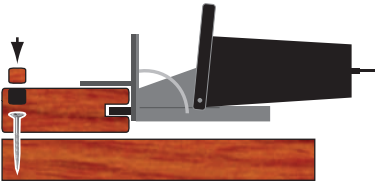
#### 1 Installing the first board



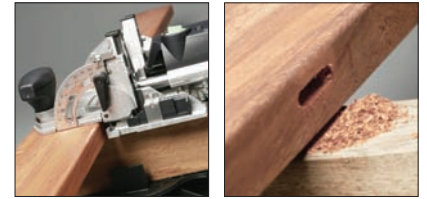
On the outside edge of the first deck board, drill 10 mm wide holes that are approximately 10 mm deep on the top of each joist. Screw the outside edge of the board to the joist with the self-drilling screws included with the kit. Insert the plugs included in the kit into the predrilled holes and attach them with polyurethane glue (not included). Remove the part of the plug that protrudes above the board.



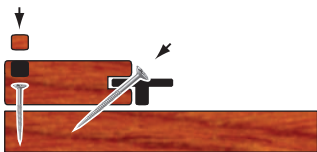
#### 2 Groove-cutting the wood board



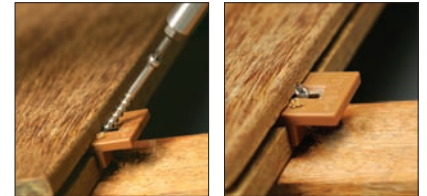
Cut a groove into the board edge at each joist using a Lamello® type groove cutter



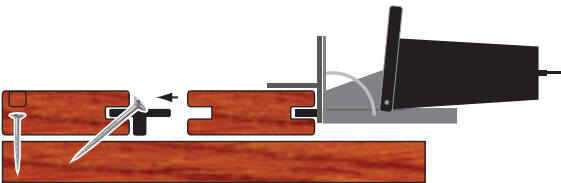
#### 3 Installing fasteners



Insert the hardWood Clip™ fastener into the deck board groove. Screw the fastener to the board using a self-drilling screw at approximately a 45° angle. The screw must go through the deck board and down into the joist to make the deck more solid. The screw head must be level with the hardWood Clip™ fastener. Repeat on each joist.

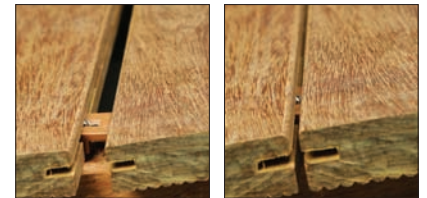


#### 4 Installing the next boards



Position the next deck board properly on the structure and mark the spot where each fastener will be attached.

At each spot you have marked, cut a groove into the side of the board using a biscuit joiner (see above).



**Using hardWood Clip™ ExtremeKD™ fasteners: Use the spacers supplied to ensure that fasteners aren't crushed when bowed boards are straightened.**

Slide it toward the last board installed. Slide the groove of the board to be installed onto the fasteners until it abuts the integrated spacer\*.

Repeat steps 2 and 3 until the last deck board is installed.

#### 4 Installing the last board

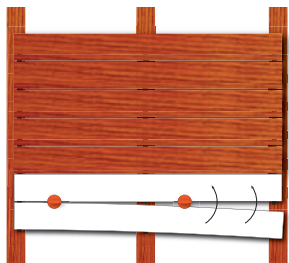


Repeat Step 1 to attach the outside edge of the last board.



## Straightening Bowed Boards and Using Spacers

We recommend the use of the "one man use" Hardwood Wrench™ tool to straighten and tighten the bowed deck boards effortlessly.



Spacers supplied with the ExtremeKD™ fastener kits are used to prevent crushing the spacer tab when straightening boards.

Place the spacer between the board to be straightened and the last one already installed and attached.

Attach the board end with a fastener (see Step 3 above).

Straighten the board until it abuts the spacer. Attach the board to the joist using a fastener (see Step 3 above). Repeat the process for each joist. After having attached and secured the board, remove the spacer. If necessary, use the end of a hammer to remove it.



#### HARDWOOD WRENCH



\*also called the fastener 'spacer tab'