Trex
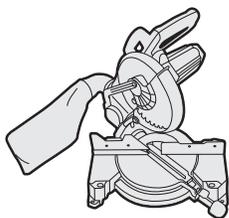
AUSTRALIAN INTERNATIONAL DECKING INSTALLATION GUIDE
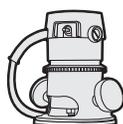
TOOLS NEEDED

Mitre saw blade
(254 mm—305 mm.
40 teeth or more)

Standard power drill

Trex groove
router bit

Carbide-tipped
blades

Trex groove cutter
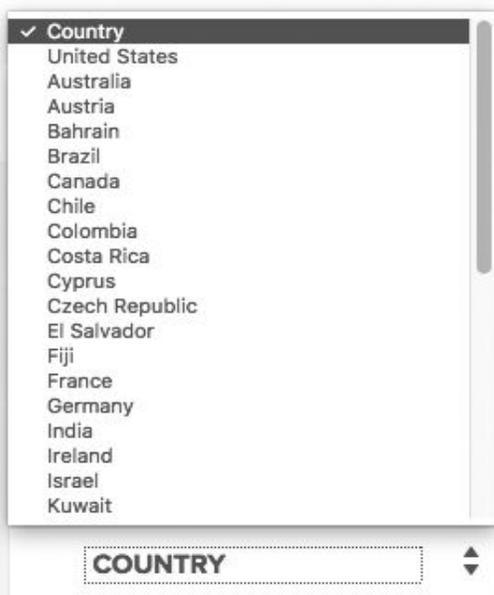
SAFETY

Long sleeves

Safety glasses

Gloves

Dust mask

• Please be sure to follow the temperature suggestions at installation to allow for the expansion and contraction of Trex WPC boards.

• For approved AU spans, refer to *https://au.tre*x.com/trex-owners/downloads/and view detailed span tables provided by SOTO Engineering located under Evaluation Service Reports.

• For Trex Railing, Hot Tub, Fire Pit or Lighting installation instructions, and for Care and Cleaning and Physical and Mechanical Properties, visit www.trex.com and scroll to the bottom to select your country.

✓ Country
United States
Australia
Austria
Bahrain
Brazil
Canada
Chile
Colombia
Costa Rica
Cyprus
Czech Republic
El Salvador
Fiji
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FAQs

NOTE: Construction methods are always improving. Please refer to *www.au.trex.com* for the most up-to-date installation requirements.

TREX DECKING, FASCIA, AND FASTENING SYSTEMS

25 mm Square-Edge Board

Actual Dimensions:
140 mm x 25 mm x 5.48 m
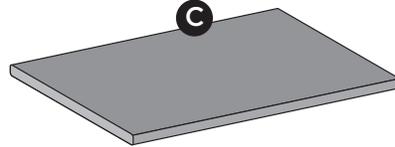4.8m and 6.1m lengths - special order

(A)
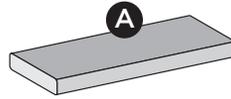
25 mm Grooved-Edge Board

Actual Dimensions:
140 mm x 25 mm x 5.48 m
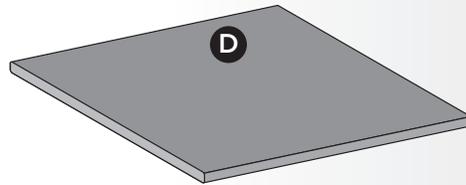4.8m and 6.1m lengths - special order

(B)

14 x 184 mm Fascia

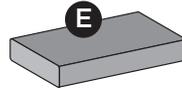Actual Dimensions:
184 mm x 14 mm x 3.65m

(C)

14 x 288 mm Fascia (special order only)

Actual Dimensions:
288 mm x 14 mm x 3.65 m

(D)

33 mm Square-Edge Board

Actual Dimensions:
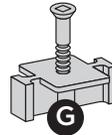140 mm x 33 mm x 4.88 m

(E)

Trex Universal Start Clip/Elevations Start Clip

Black-coated Stainless Steel (steel grade 302SS)

(F)

Trex Elevations Universal Hidden Fastener (for use with Steel Substructure)

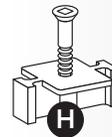Glass-filled Nylon (steel grade 410SS)

(G)

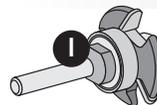### Trex Universal Hidden Fastener (for use with Timber Substructure) or

Glass-filled Nylon (steel grade 302SS)

Trex Universal Hidden Fastener (for use with Aluminum Substructure)
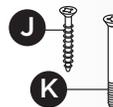
Glass-filled Nylon (steel grade 300 series)

(H)

Router Bit

(I)

Fascia and Deck Screws (Supplied by Distributor)

Supplied by installer

(J)

(K)

SPANNING REQUIREMENTS

For approved AU spans, refer to https://au.trex.com/trex-owners/downloads/ and view detailed span tables provided by SOTO Engineering located under Evaluation Service Reports.

RECOMMENDED FASTENERS

COMPATIBLE FASTENER MATERIALS FOR USE WITH TREX			
Substrate Material	Carbon Steel w/ 1000 hr. Corrosion-Resistant Coating	Stainless Steel: 410 Series or 1.4003/1.4006	Stainless Steel: 300 Series or 1.4301/1.4401/1.4567
Exterior Grade Natural or Treated Wood	Yes***	Yes	Yes**
Plastic or Fiberglass Composites	Yes	Yes	Yes
Aluminum	No	No	Yes
Steel	No	Yes*	Yes#

Trex Elevations Universal Hidden Fastener are approved
**Trex Universal Hidden Fasteners are approved*
Trex Universal Hidden Fasteners for Aluminum Framing are approved
***See Trex recommended fasteners for listing of approved decking screws*
This guide is for recommended use of fasteners for use with Trex decking. Not all sub-structure materials fall under these categories. In the case of any unique substrate composition of materials, or proprietary composites, consult the substrate manufacturer for recommendations of applicable fasteners.

		Transcend®
RECOMMENDED FASTENERS	**DECKING–HIDDEN FASTENERS**	
	Trex Hideaway® Universal Hidden Fastener/Trex Elevations Universal Hidden Fastener	X
	FastenMaster® TrapEase 3 Ultimate Composite Deck Screw	X
	Cortex® Concealed Fasteners	X
	Starborn® Pro Plug® System for PVC & Composite (Epoxy Coated & Stainless (2" are approved for sleeper & roof top applications only)	X
	KlevaKlip™ Snap-LOC Clip	X

		Transcend®
RECOMMENDED FASTENERS	**FASCIA***	
	Starborn® Deckfast® Fascia System – Epoxy Coated* and Headcote® Stainless	X
	SplitStop™ Fascia Screws (uses SplitStop™ Fascia Bit)	X
	Cortex® Hidden Fastening System for Fascia	X

Refer to au.trex.com, under the Literature/Technical Information for additional recommended fasteners.

*Fascia system screws listed above **can only be used with composite fascia profiles**, and cannot be used with standard thickness decking boards used as fascia. Use stainless steel screws near water applications.*
If any condition occurs which is attributable to the use of non-recommended fasteners, such condition shall not be covered under Trex's Limited Warranty.
FastenMaster®, TrapEase® 3, and Cortex® are registered trademarks of OMG, Inc.
DeckFast® Fascia System screws are registered trademarks of Starborn Industries Inc.
SplitStop™ fascia screws are a registered trademark of Titan Metal Werks, Inc.
Trex recommends the use of two screws per joist.
All recommended screws are designed to be installed flush with decking surface, DO NOT countersink screws.
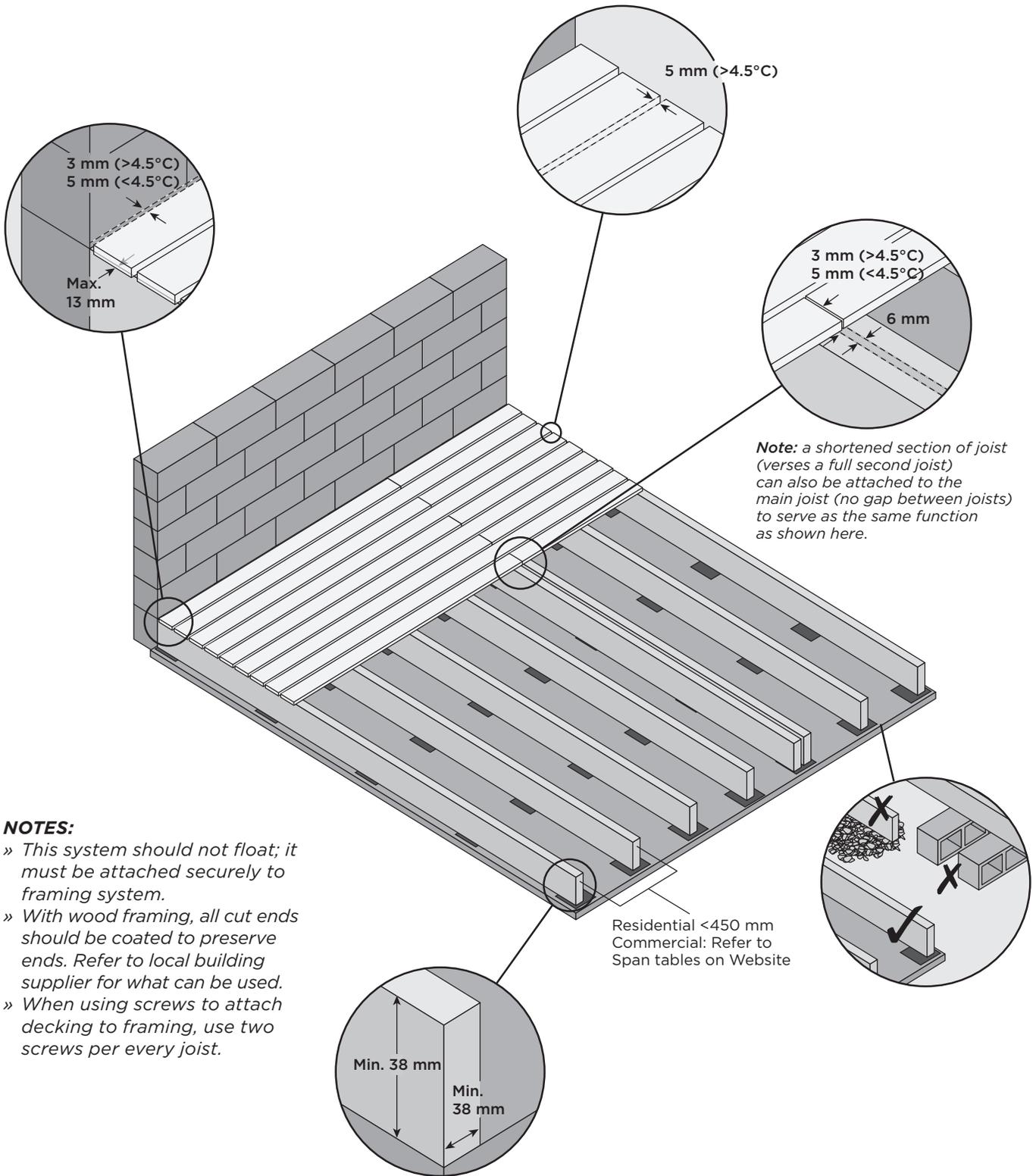**Use recommended stainless steel screws in any areas near bodies of saltwater.**
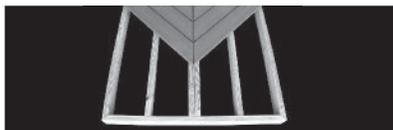
BUSHFIRE SAFETY REGULATIONS
Trex Transcend decking is compliant with bushfire safety regulations for BAL-19 and BAL-29 zones. Refer to *https://au.trex.com/trex-owners/downloads* and view Trex technical bulletin titled BAL Testing Results under Technical Information, for certain requirements in order to meet these regulations. Please also consult your local council or State building codes for your particular geographical requirements.

NOTE: Construction methods are always improving. Please refer to *www.au.trex.com* for the most up-to-date installation requirements.
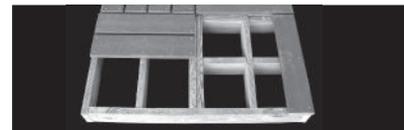
PRESSURE-TREATED FRAMING REQUIREMENTS AND GAPPING

5 mm (>4.5°C)

3 mm (>4.5°C)
5 mm (<4.5°C)

Max.
13 mm

3 mm (>4.5°C)
5 mm (<4.5°C)

6 mm

*Note: a shortened section of joist
(verses a full second joist)
can also be attached to the
main joist (no gap between joists)
to serve as the same function
as shown here.*

NOTES:
- *This system should not float; it must be attached securely to framing system.*
- *With wood framing, all cut ends should be coated to preserve ends. Refer to local building supplier for what can be used.*
- *When using screws to attach decking to framing, use two screws per every joist.*

Residential <450 mm
Commercial: Refer to
Span tables on Website

Min. 38 mm

Min.
38 mm

FRAMING TO SUPPORT PATTERNS

| Herringbone Pattern | Picture Frame Pattern | Tile Pattern |

METAL FRAMING REQUIREMENTS AND GAPPING

Gap decking
width-to-width
5 mm

Gap decking
end-to-end
3 mm (>4.5°C)
5 mm (<4.5°C)

Two screws
per joist

13 mm

Adjust end
span framing
per manufacturers
requirements

Perimeter
joists

Double joist
spacing per
manufacturers
requirements

COMPATIBLE FASTENER MATERIALS FOR USE WITH TREX			
Substrate Material	Carbon Steel w/ 1000 hr. Corrosion Resistant Coating	Stainless Steel: 410 Series or 1.4003/1.4006	Stainless Steel: 300 Series or 1.4301/1.4401/1.4567
Exterior Grade Natural or Treated Wood	Yes***	Yes	Yes**
Plastic or Fiberglass Composites	Yes	Yes	Yes
Aluminum	No	No	Yes
Steel	No	Yes*	Yes#

*Trex Elevations Universal Hidden Fastener are approved
**Trex Universal Hidden Fasteners are approved
Trex Universal Hidden Fasteners for Aluminum Framing are approved
***See Trex recommended fasteners for listing of approved decking screws
This guide is for recommended use of fasteners for use with Trex decking. Not all sub-structure materials fall under these categories. In the case of any unique substrate composition of materials, or proprietary composites, consult the substrate manufacturer for recommendations of applicable fasteners.

NOTES:
» Gapping rules are required when installing Trex decking.
» When using an aluminum framing system or other type of metal for sleeper systems, follow manufacturer's instructions for proper installation.
» Depending on loading requirements and/or if installing Trex decking on an angle, framing spacing may need to be adjusted. **See page 4 for Trex requirements**.
» Depending on type of structure being used, different types of fasteners must be used for attachment. Refer to the chart at right for compatible fasteners based on substrate material being used.
» When using screws to attach decking to framing, use two screws per every joist.

TREX AND STATIC ELECTRICITY
While this is not common, static electricity can occur on walking surfaces in dry climates or in areas where dry winds and dust-borne particles lay on the decking surfaces. Static electricity can build up on occupants walking across any composite decking surface, including Trex, then produce a small static shock if they touch a grounded metal surface such as a railing, door, etc.

This condition can be decreased greatly with the use of a product call ACL Staticide®. Two products tested were General Purpose Staticide® and Heavy Duty Staticide®. Both are effective in greatly reducing static electricity on Trex decking surfaces. Apply full strength, using a mop on a dry decking surface, and allow to dry. No rinsing, no diluting needed. Products are non-toxic, non-flammable, non-staining (will not change the colour of decking surface), completely biodegradable and safe to use. Product is water based and may require a second application after rain or other weather conditions. Over a period of time, the effect of static will dissipate naturally on the decking surface.

See link for more information on product: **http://www.aclstaticide.com/antistatic_coatings.html**.

NOTE: Construction methods are always improving. Please refer to *www.au.trex.com* for the most up-to-date installation requirements.
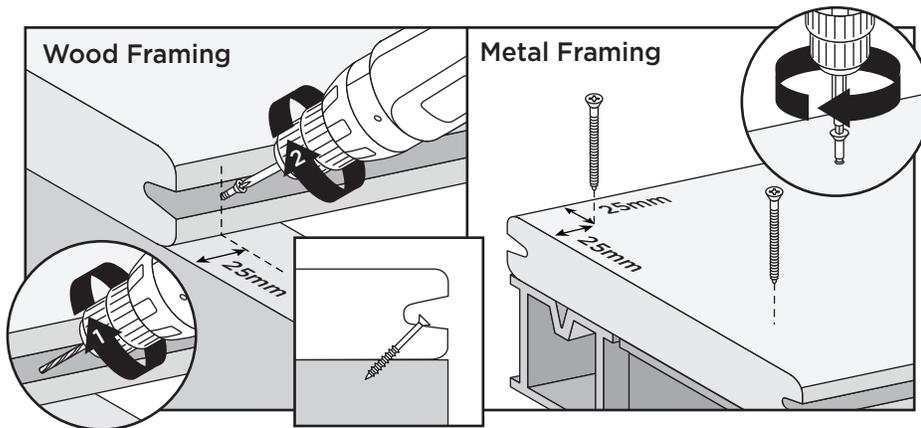
INSTALLING TREX DECKBOARDS

IMPORTANT: You MUST clean cut boards on both ends (min. 5 mm).

5 mm

To ensure an appealing mix of colour tones, mix and match all boards prior to installation. (See inside cover for additional details.)
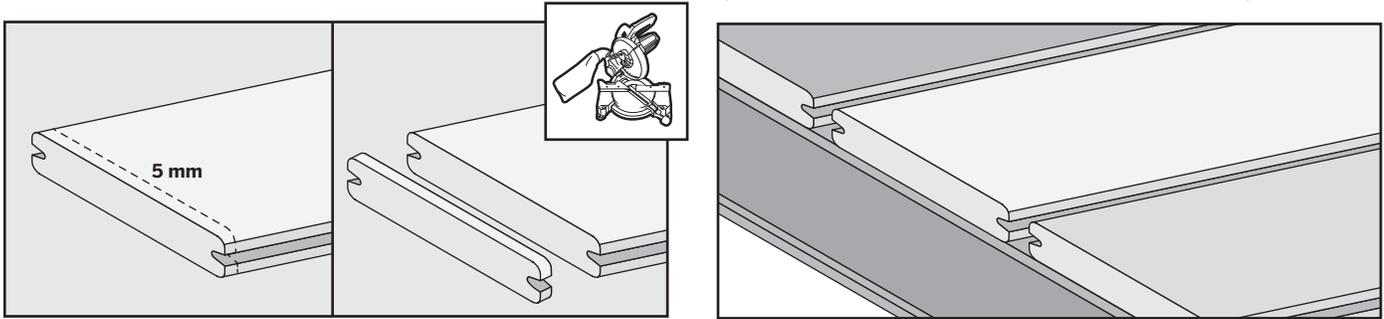
Installation Tips for Large Temperature Shifts within 24-hour Period

Wood Framing

Metal Framing

25mm

25mm

25mm

For wood framing, and if using Trex Universal Hidden Fasteners, pre-drill and toenail an approved screw at an angle in groove at both ends 25mm from board end and center of each board.

For metal framing, use two approved decking screws at board ends.

Routing Square Edge Boards for Trex Hideaway Hidden Fasteners

NOTE: All Trex square edge profiles can be routed.

Using a Trex router bit with standard router:

1. Rout from bottom side of board.
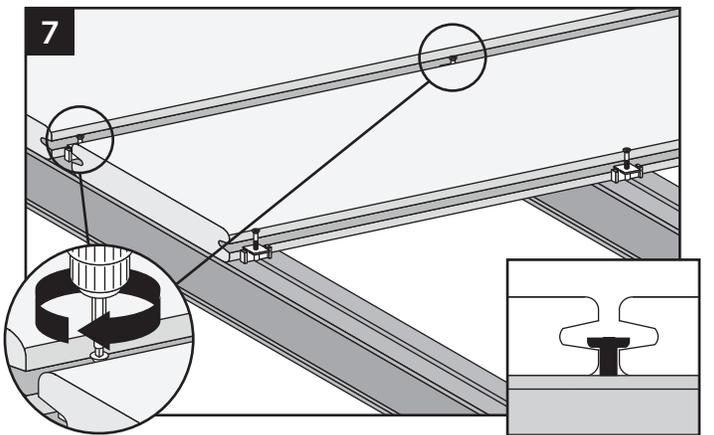2. Rout the entire length of the board, or at every intersection where board is over support joists.
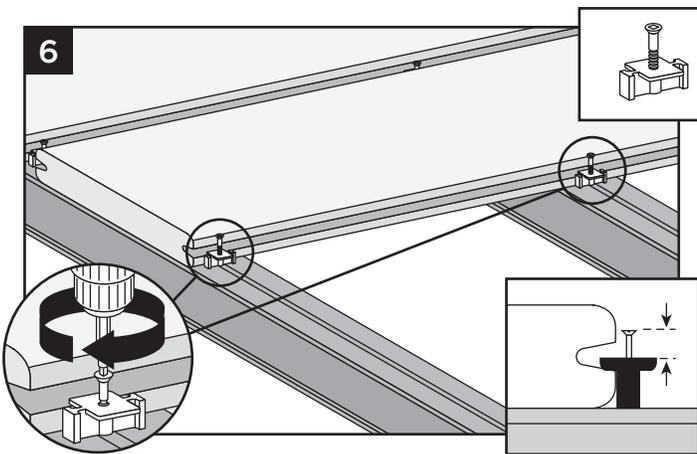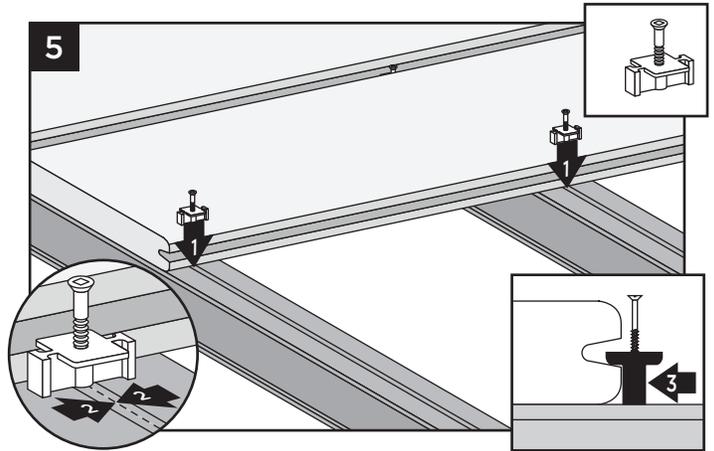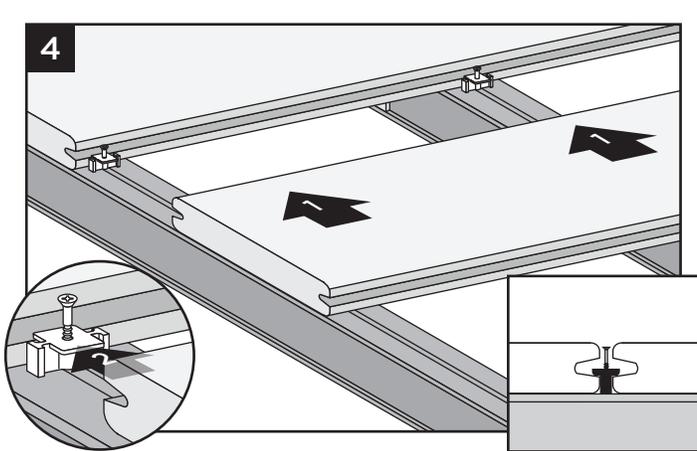
1

2
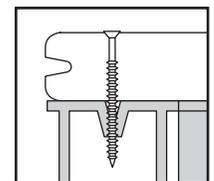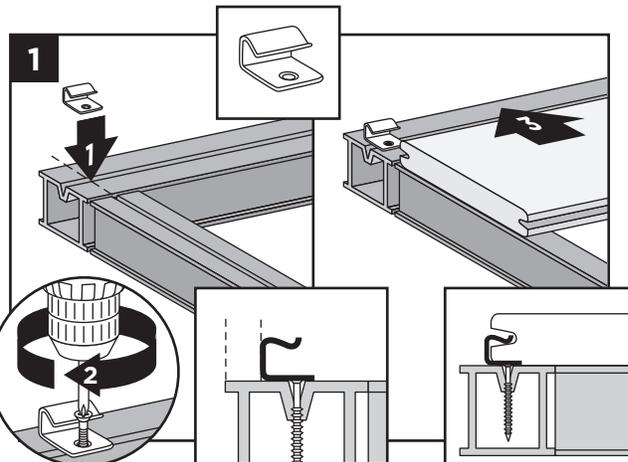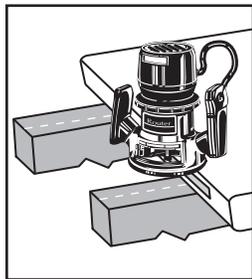
*6mm >4°C 13mm <4°C

Optional First Board Installation: (one screw per every metal joist)

2

3
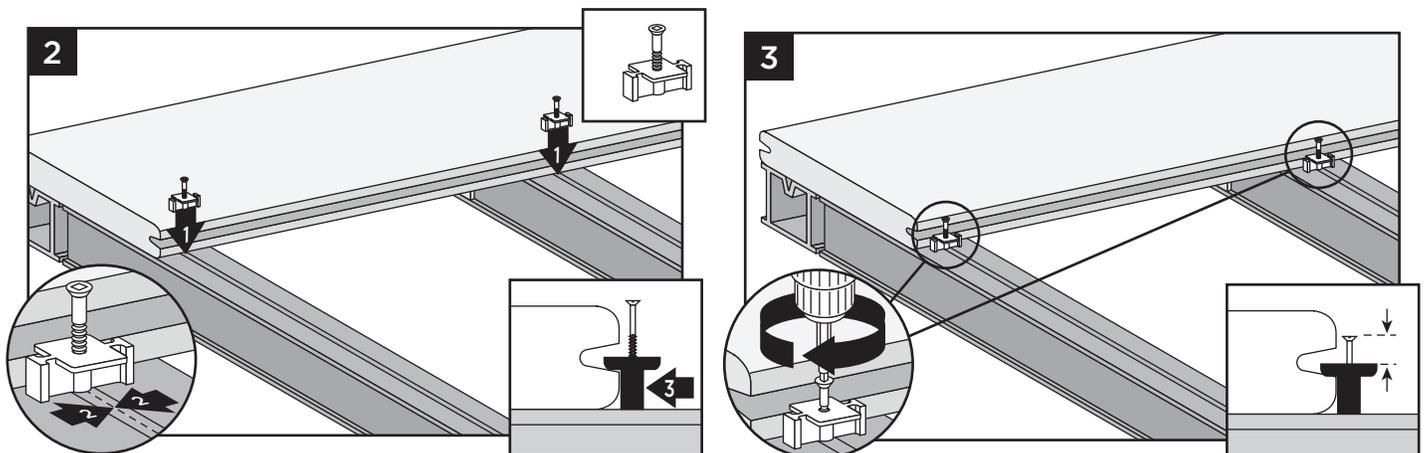
INSTALLING TREX DECKBOARDS/CONTINUED

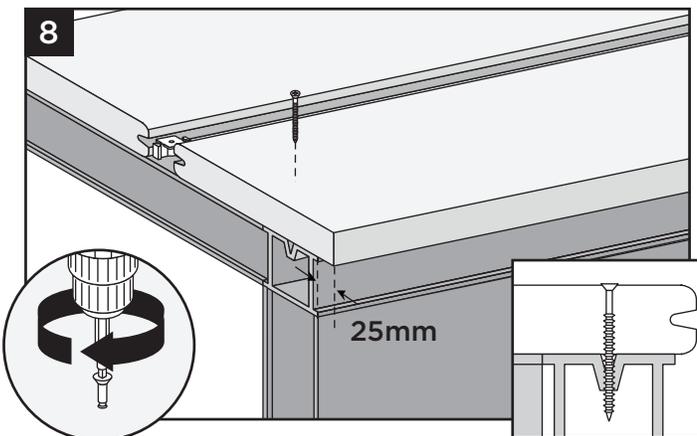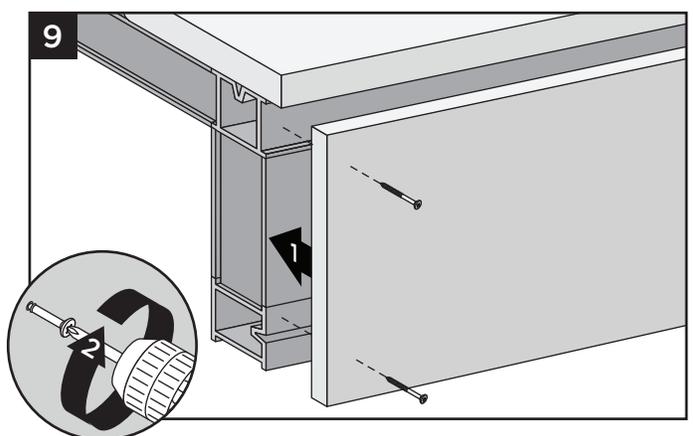### Installing Last Deck Board
### (Square-Edge Board Recommended)

25mm

Rout one side of square-edge board to use with hidden fasteners.

Optional Fascia Installation

NOTE: Fascia wider than 60mm will require more detailed fastener requirements. Fascia boards are not allowed to carry loads from decking. Contact a Trex representative for more detail.

REPLACING TREX BOARDS
INSTALLED WITH TREX HIDEAWAY UNIVERSAL FASTENERS

1

2

New board at an angle

Existing Deck

3

Insert Fasteners

Insert Fasteners

4

· ·
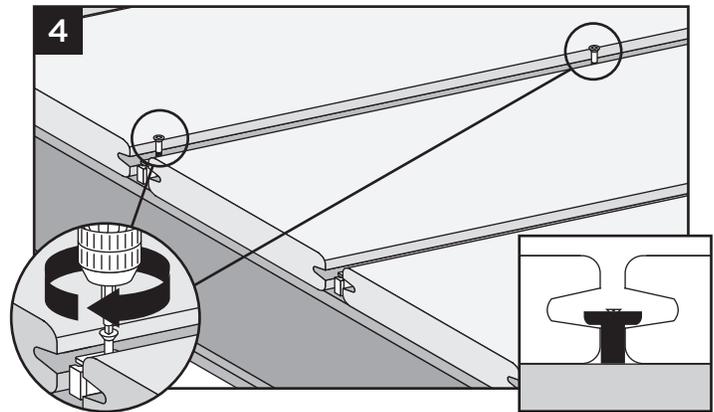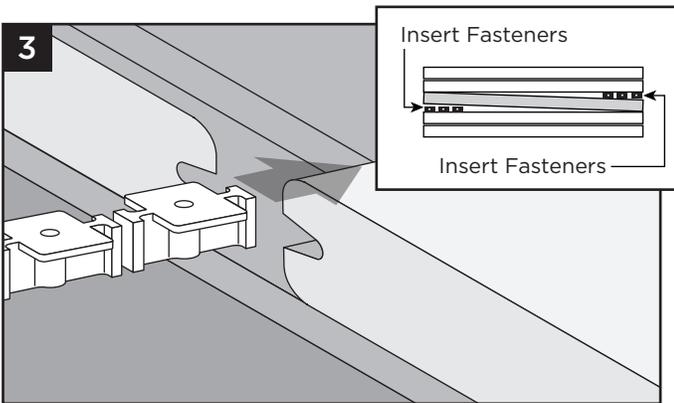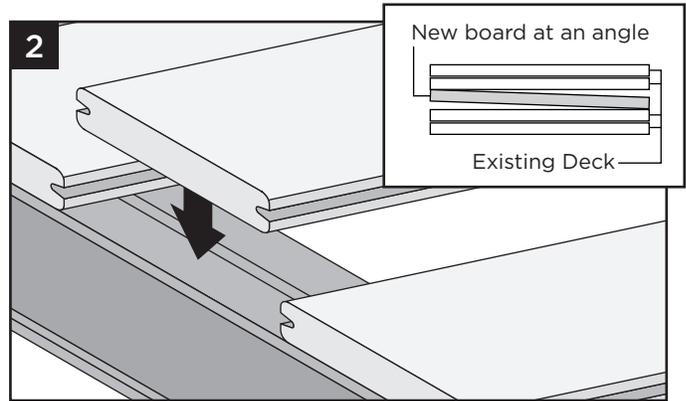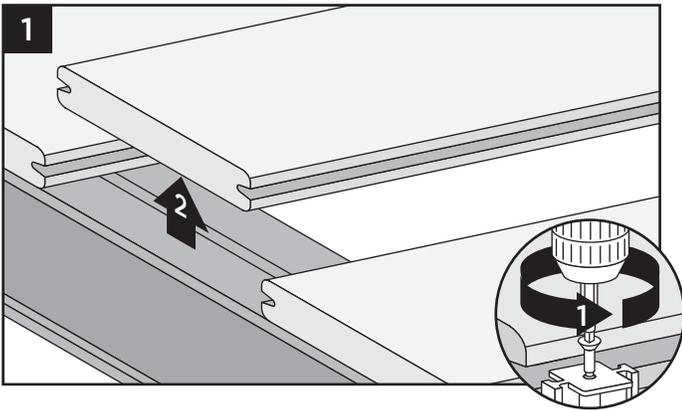
INSTALLING TREX FASCIA AND GAPPING

Trex Fascia, utilized around the perimeter of a deck, must be gapped with the same requirements as Trex decking to allow for air flow and expansion/contraction of the fascia.
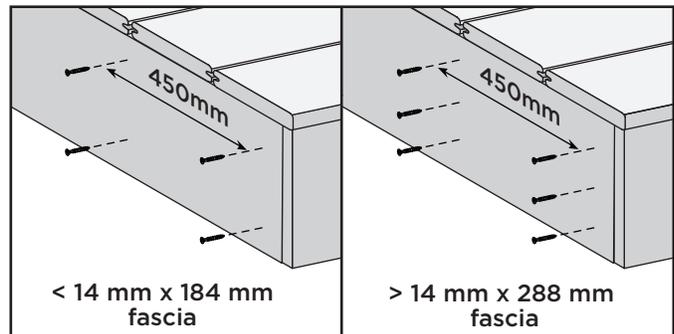
The fascia gapping requirements are as follows:

Below 4.5˚ C = 13 mm
Above 4.5˚ C = 6 mm

Below 4.5˚ C = 5 mm
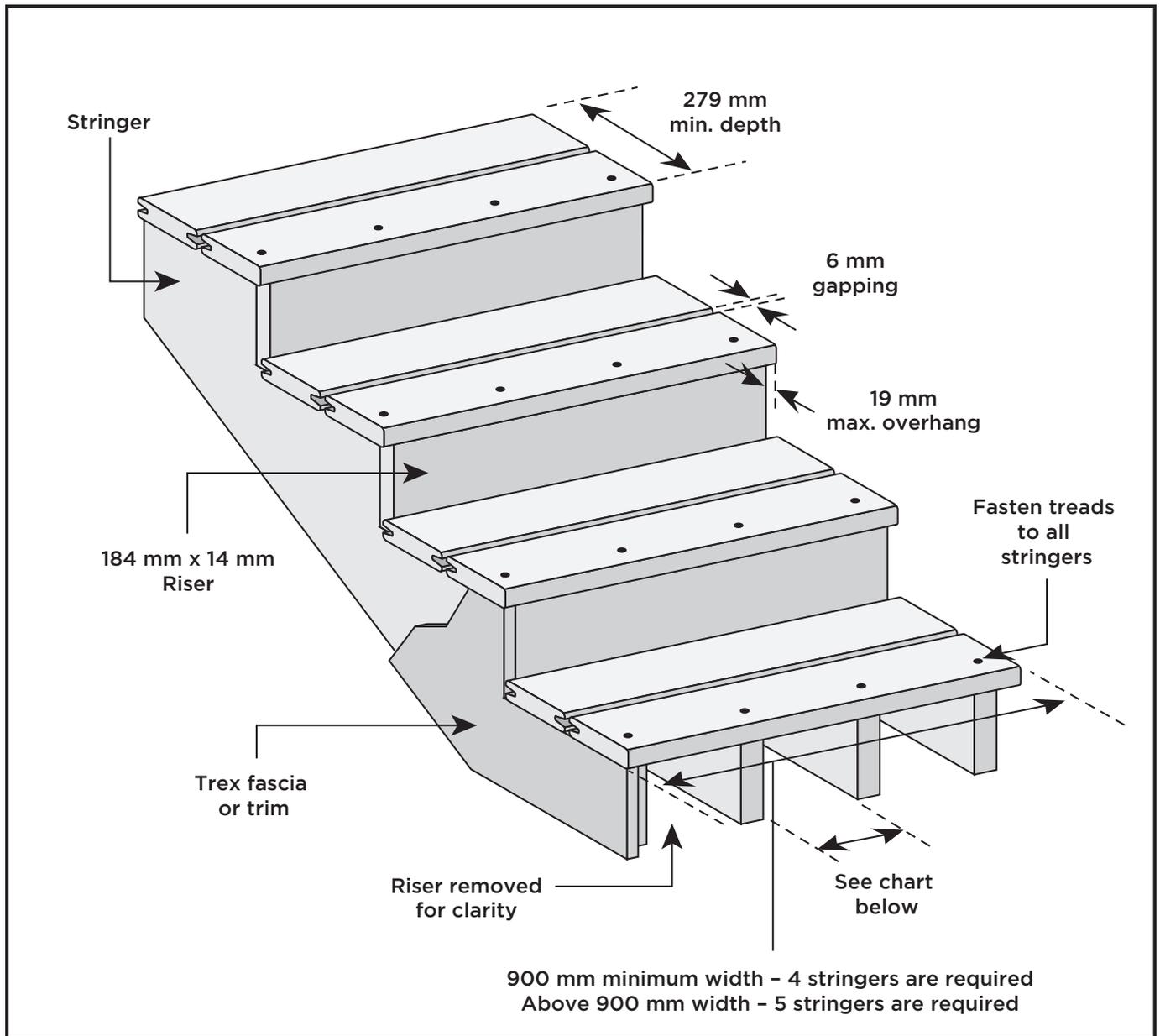Above 4.5˚ C = 3 mm
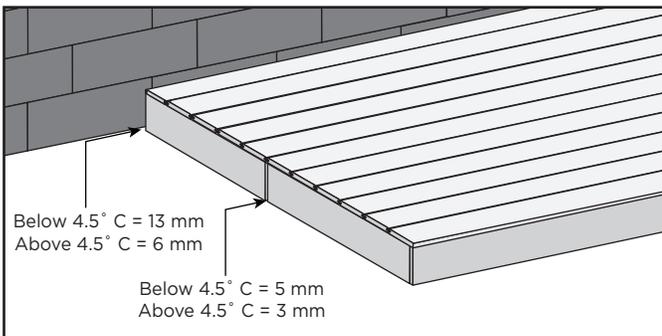
When Using Approved Fascia Fasteners:

NOTE: The fasteners listed below can only be used with 14 mm x 184 mm or 14 mm x 288 mm fascia product, and cannot be used with decking product that is being used as fascia trim or stair risers.

Trex recommends the use of Starborn® Deckfast® Fascia System or SplitStop™ Fascia Screws.

450mm

450mm

< 14 mm x 184 mm
fascia

> 14 mm x 288 mm
fascia

SPANNING REQUIREMENTS FOR TREX STAIRS

NOTE: Shown with wood framing.

Stringer

279 mm
min. depth

6 mm
gapping

19 mm
max. overhang

184 mm x 14 mm
Riser

Fasten treads
to all
stringers

Trex fascia
or trim

Riser removed
for clarity

See chart
below

900 mm minimum width – 4 stringers are required
Above 900 mm width – 5 stringers are required

MAXIMUM SPACING OF STAIR JOISTS (Centre-to-Centre)
For approved AU spans, refer to https://au.trex.com/trex-owners/downloads/ and view detailed span tables provided by SOTO Engineering located under Evaluation Service Reports.

NOTE: Construction methods are always improving. Please refer to *www.au.trex.com* for the most up-to-date installation requirements.

INSTALLING TREX STAIR TREADS
INSTALLED WITH TREX HIDEAWAY HIDDEN FASTENING SYSTEMS

NOTE: Use square-edge, composite decking boards and manually rout these on required sides to allow for use with hidden fasteners.

1

F

6 mm >4.5°C
13 mm <4.5°C

2

B

3

H

4

H

5

I

A

Rout one side of board (A).

6

7
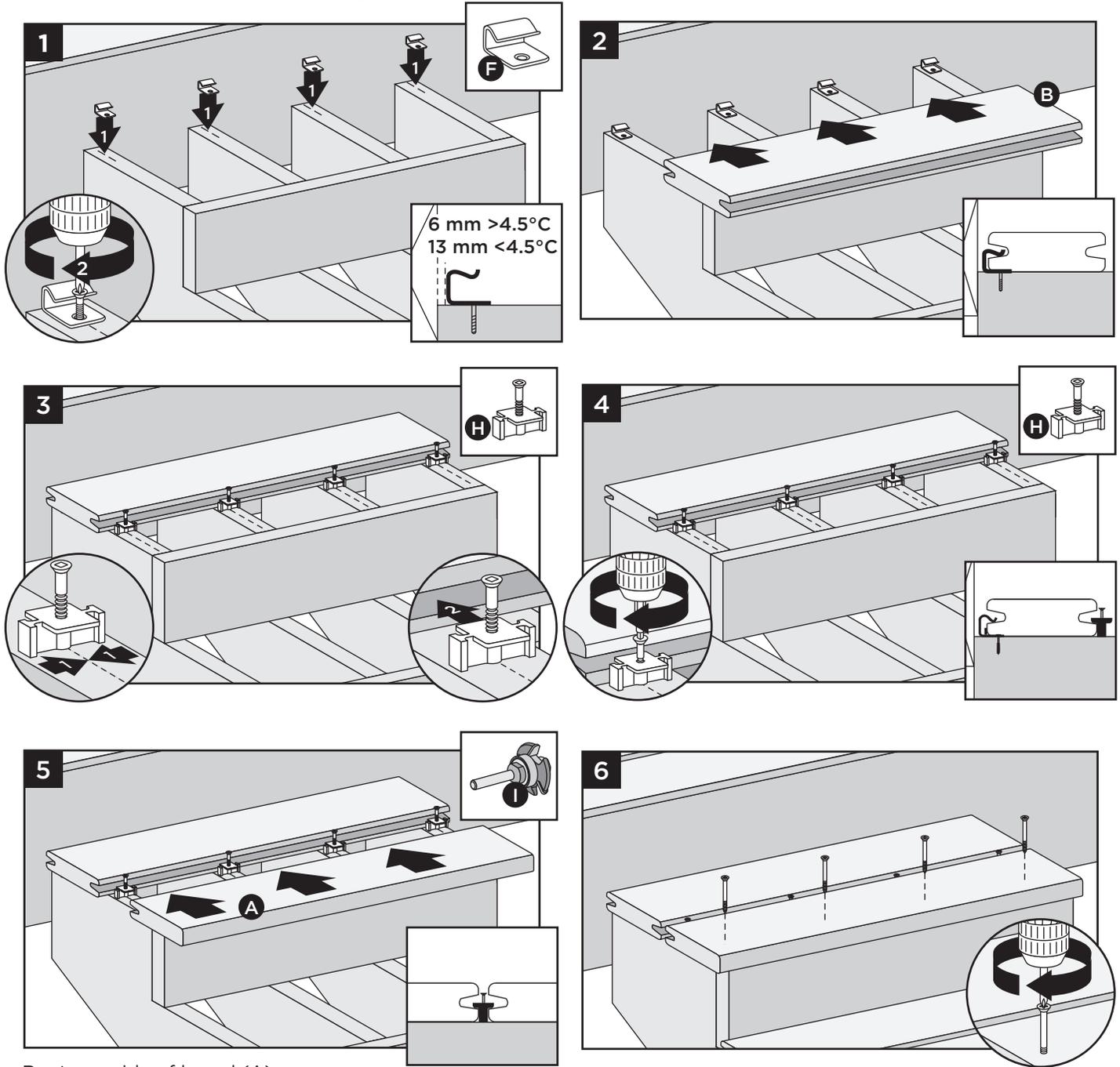
BACK
decking: Transcend in Tiki Torch & Spiced Rum
–
FRONT
decking: Transcend in Island Mist

DECKING | RAILING | FRAMING | LIGHTING | FASCIA | KITCHENS | FURNITURE | PERGOLA | DRAINAGE

Trex

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