TREADTECH SPECIFICATION SHEET

treadtech.nz



GENERAL NOTES & DISCLAIMERS

- 1. The TreadTech framing system in this specification shall be manufactured and installed in accordance with this specification holistically, including all drawings and notes.
- The TreadTech framing system in this specification complies for Liveloads in accordance B1/VM1 with reference to AS/NZS 1170.1:2002, for occupancy type: Domestic & Residential activities, Self-contained dwellings, Balconies and roofs used for floor type activities, with no restriction on height above ground level, but excludes stairs and landings.
- 3. The deck boards and their connections to the framing (by others), in in-service conditions, shall not exceed more than 45 kg per square-metre in weight.
- 4. The TreadTech framing system in this specification, is not suitable for attaching balustrades and/or any form of screen or barrier to.
- 5. The decking boards and their fasteners must be suitable and compatible to be used in conjunction with this TreadTech framing system. Holes in the frame for fasteners shall not exceed 5 mm diameter, and/or be less than 50 mm centres apart.
- 6. The supporting structure including any water-proofing membranes must be suitable and compatible to be used in conjunction with this TreadTech framing system.
- 7. TreadTech framing system is a proprietary product supplied Unex Systems (NZ) Limited and or it's subsidiary companies. Substitution of materials from other suppliers will invalidate this specification and any associated Producer Statements.
- 8. The design of the supporting structure below the TreadTech framing system, is outside the scope of this specification, and should be engineered by others.
- 9. Deck boards and their connections to the framing (by others) used in conjunction with TreadTech Framing system, are outside the scope of this Specification. The deck boards shall be structurally adequate to span in between the upper frame members, and the ends protrude beyond the frame by up to 70 mm, on the outside edges of the deck.

SNOW LOADING

1. This specification should not be relied on for locations 500 metres or more above sea level - e.g. Mt Cook Village or Castle Hill.

WIND LOADING

1. Decking in exposed locations should have a parapet (or something similar) to prevent wind blowing under the deck and prevent uplift of the decking.

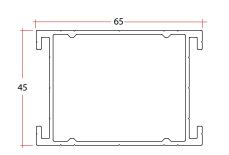


EXTRUSIONS & COMPONENTS TREADTECH | DECK FRAMING SYSTEM

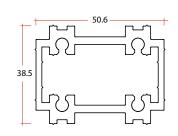
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EXTRUSIONS

KEFH-60	TREADTECH BEARER 65X45 MM
	6.0 m lengths. Available in Matt Black or Mill Finish.



KEFS-60TREADTECH JOIST 65X45 MM6.0 m lengths.
Available in Matt Black or Mill Finish.



KEJH-60

JOINTER FOR KEFH & KEFS 6.0 m lengths.

Available in Mill Finish.



Specifications subject to change without notice

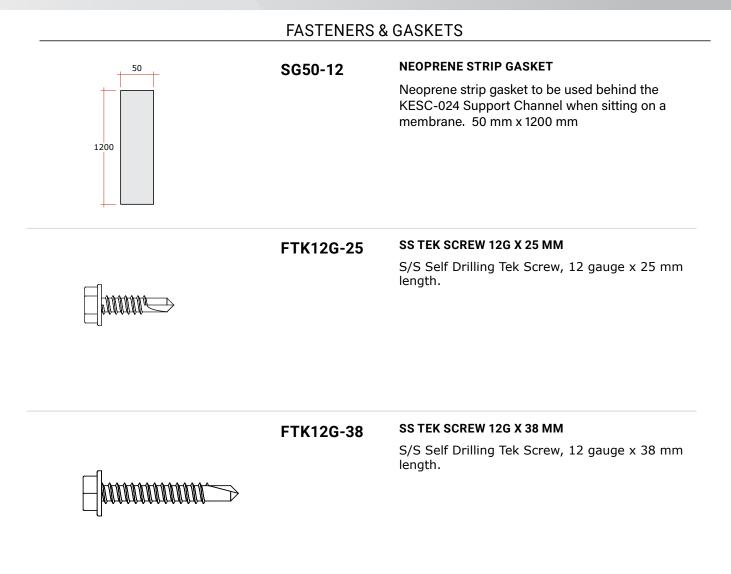
EADTECH DECK FRAMING SYSTEM		
	JOINTERS	8
	KEJH-0300	STRAIGHT JOINTER 300 mm Straight Jointer for KEFH & KEFS.
	KEJH-H90	HORIZONTAL JOINTER 90 DEGREE 90 Deg Horizontal Mitre Jointer for KEFH & KEFS.
	KEJH-HXX	HORIZONTAL JOINTER CUSTOM ANGLE Custom Angle Horizontal Mitre Jointer for KEFH & KEFS.
	KEJH-V90	VERTICAL JOINTER 90 DEGREE 90 Deg Vertical Mitre Jointer for KEFH & KEFS.
	KEJH-VXX	VERTICAL JOINTER CUSTOM ANGLE Custom Angle Vertical Mitre Jointer for KEFH & KEFS.
		Specifications subject to change without

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EXTRUSIONS & COMPONENTS TREADTECH | DECK FRAMING SYSTEM

COMPONENTS			
	KEGS90V	GUSSET CONNECTOR Gusset Connector Vertical for KEFH & KEFS.	
	KENA30	GUSSET CONNECTOR 90 Deg Corner Bracket for KEFH & KEFS, 30 mm Length.	
	KENB45	BORDER CONNECTOR 45 mm Border Tab for attaching double KEFS joists to KEFH.	
	KENT30	JOIST TO BEARER TAB CONNECTOR 30 mm Connector Tab for attaching KEFS to KEFH.	
	KESC-025	SUPPORT CHANNEL FOR KEFH & KEFS, 5-25MM 75 mm x 50 mm Aluminium support channel for KEFH & KEFS. SG50-12 Neoprene strip gasket to be placed behind the KESC-025 when sitting on a membrane.	





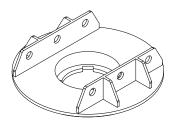
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EXTRUSIONS & COMPONENTS TREADTECH | DECK FRAMING SYSTEM

P	EDESTAL COMP	ONENTS
	KJD2-AK	PEDESTAL ADJUSTMENT KEY Adjustment Key for adjusting KJD2 Pedestals with Tiles and KJT2-XX8 Tile Cradle.
	KJD2-SC	ADJUSTABLE SLOPE CORRECTOR Adjustable Slope Corrector for KJD2 Range of Pedestals.
	KJH2-0210	210 MM RUBBER BASE PAD 210 mm Rubber Base Pad for KJD2 Pedestals (Optional).
	KJH2-0230	230 MM RUBBER BASE PAD 230mm Rubber Base Pad for KJD2-SC Slope Corrector (Optional).



PEDESTAL COMPONENTS (CONT.)

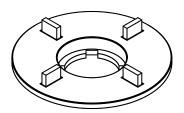


KJD2-CR065

KJT2-CT04

65 MM JOIST CRADLE

Self-Levelling Joist Cradle 65 mm. To suit KEFS-60 TreadTech Joist.



TILE CRADLE 4 MM SPACE

Self-Levelling Tile Cradle with 4 mm Space between Tiles.

KJD2-XXX DECKING PEDESTAL Adjustable Decking Pedestal. Excludes Cradle.	
	2nd Number indicates Height Range: 033 = 23 to 33 mm 068 = 33 to 68 mm 157 = 67 to 157 mm 405 = 154 to 405 mm 595 = 325 to 595 mm 785 = 392 to 785 mm

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FABRICATION & INSTALLATION TREADTECH | DECK FRAMING SYSTEM

DECK PEDESTALS

Note: The design of the supporting structure below the TreadTech framing system, is outside the scope of this specification, and should be engineered by others.

CUT THE BASE OF PEDESTAL TO INSTALL ON A CORNER.



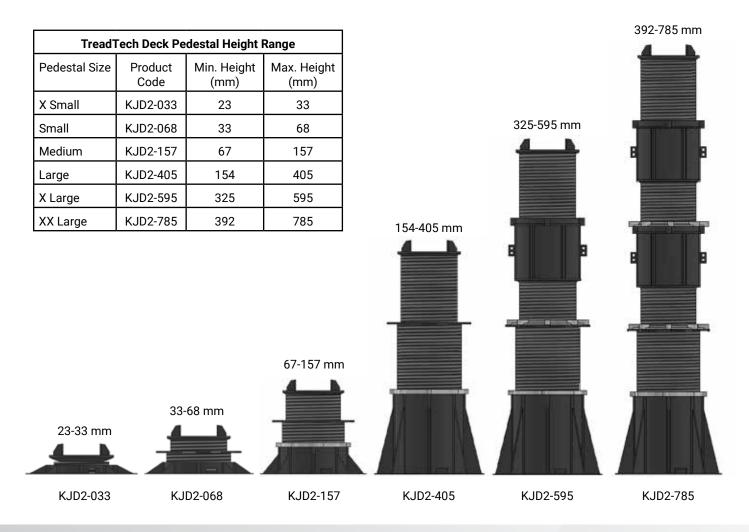
ONE SIDE



TWO SIDES

Featuring a self-leveling head with a diameter of 115 mm, equipped with an optional anti-noise and anti-slip rubber, our system ensures a perfectly flat surface on uneven terrain.



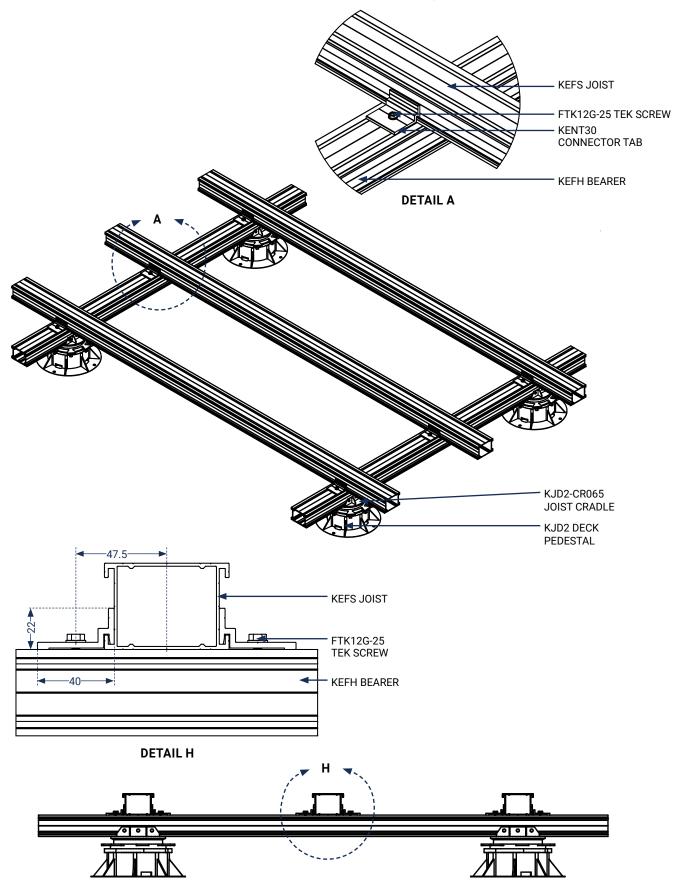




FABRICATION & INSTALLATION TREADTECH | DECK FRAMING SYSTEM

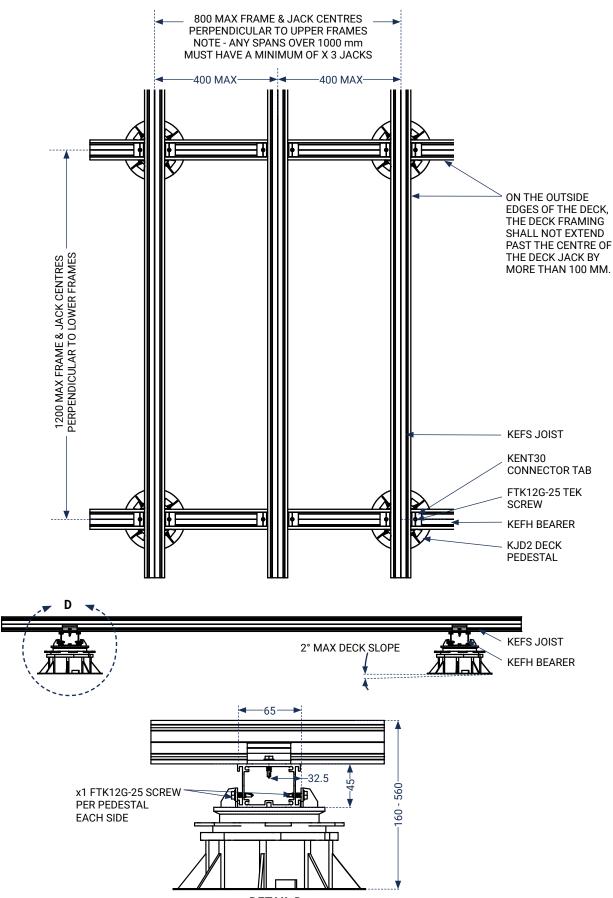
PARTS, DIMENSIONS & GENERAL CONFIGURATION

Note: Whilst a limited section of deck framing is illustrated, the deck framing may be continuous in all directions.



FABRICATION & INSTALLATION TREADTECH | DECK FRAMING SYSTEM



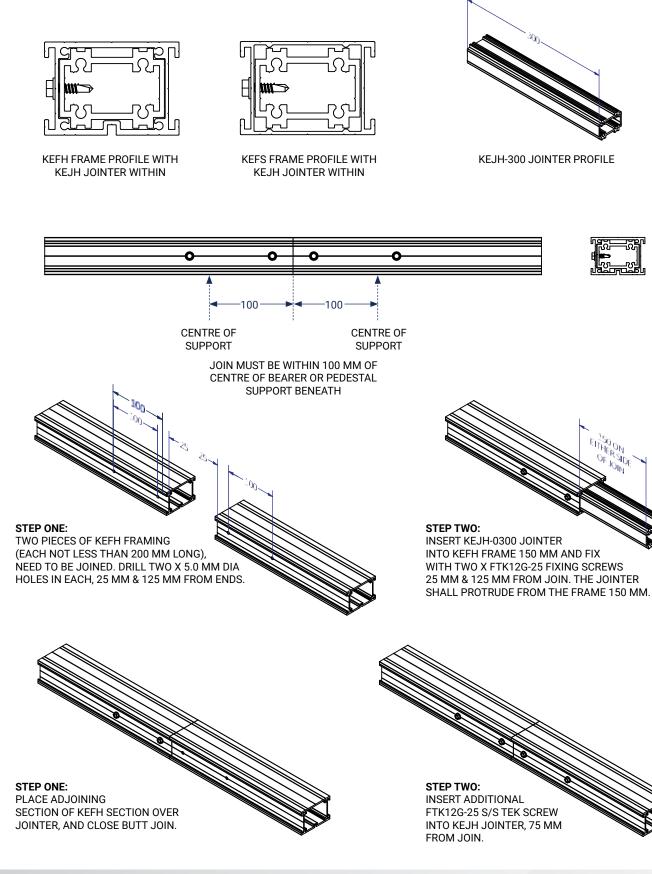


DETAIL D



FRAME BUTT-JOINS WITH INTERNAL JOINTERS

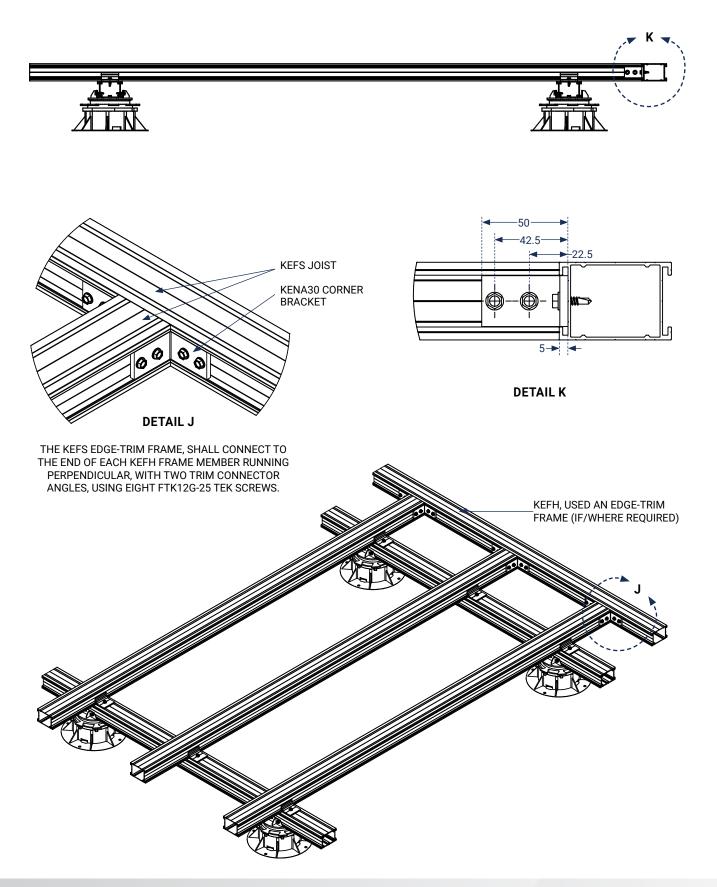
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EDGE-TRIM FRAME, WHERE REQUIRED

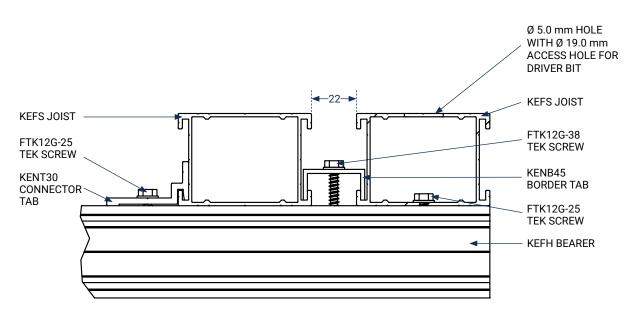
* Note: An edge-trim frame is not mandatory on all edges. It may be required for aesthetic purposes, or in other situations, e.g. where the distance to the supporting deck structure is too shallow for two layers of deck frames at the edge.

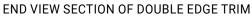


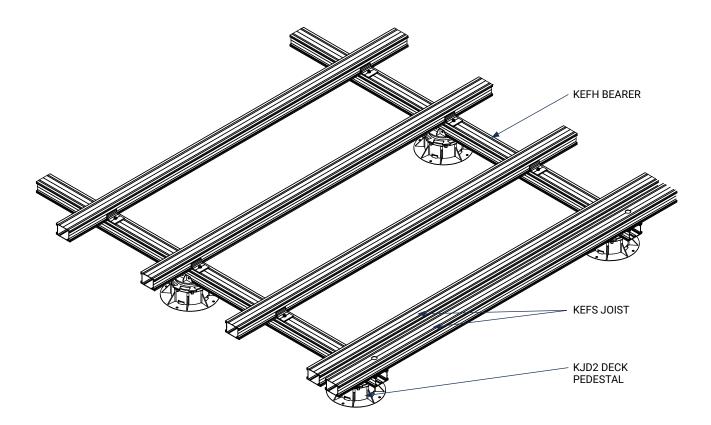


EDGE-TRIM FRAME, WHERE REQUIRED

* Note: An edge-trim frame is not mandatory on all edges. It may be required for aesthetic purposes, Or in other situations. The design of the supporting structure below the TreadTech framing system, is outside the scope of this specification, and should be engineered by others.





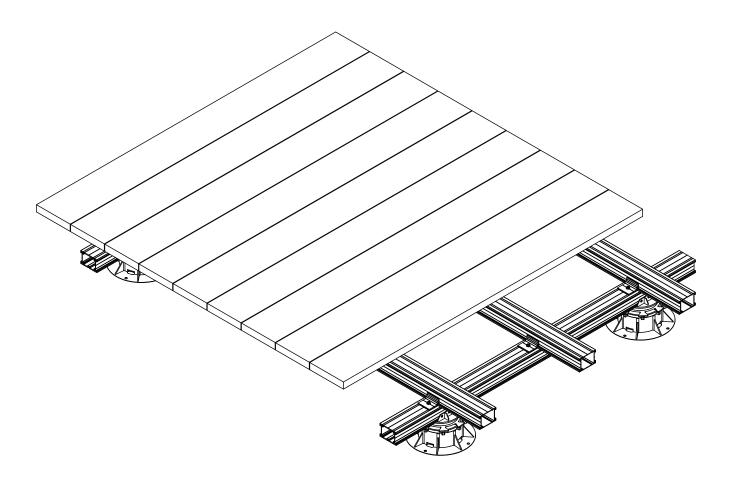


DECKING BOARDS BY OTHERS

Deck boards and their connections to the framing (by others) used with the TreadTech framing system are not covered in this specification. Deck boards must be structurally adequate to span between upper frame members, with ends protruding 70 mm beyond the frame on outer edges of the deck.

Gaps must be present between boards as per decking manufacturer's specifications, with a minimum gap of 3.0 mm required.

Deck boards (installed by others) must run parallel to the KEFH bearer, and perpendicular to the KEFS joists.





SEISMIC LOADING

- Some decks will require lateral support from adjacent Parapet, Wall or other such structure, depending on

 a) their Zone and location, b) the height of the pedestals, and c) the height of the deck above adjacent
 ground level. To determine if lateral support is required, refer to Table 1 of this specification below.
- 2. Seismic actions have been calculated using AS/NZS1170.5. To obtain the applicable zone, see below;
 - Zone 1 Maximum hazard factor = 0.20

Zone 2 - Maximum hazard factor = 0.30

Zone 3 - Maximum hazard factor = 0.42

Zone 4 - Maximum hazard factor = 0.60

The zones above coincide with those given by BRANZ and NZS3604

3. Two examples of Lateral Support methods are illustrated in Figure 1 and Figure 2 below.

Figure 1. Illustration of Lateral Support

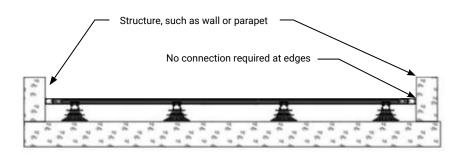


Figure 2. Illustration of Lateral Support

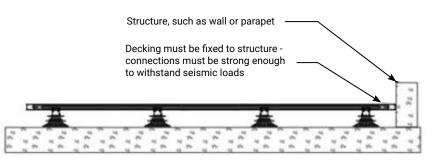


Table 1. Lateral Support Requirements					
Zone	Location	Pedestal Height Less Than 170 mm		Pedestal Height 170 mm or Greater	
		0 m - 6 m Height Above Ground	>6 m Height Above Ground	0 m - 6 m Height Above Ground	>6 m Height Above Ground
Zone 1	Dunedin, Coromandal, Auckland & North	Not Required	Not Required	Lateral Support Required	Lateral Support Required
Zone 2	All other locations	Not Required	Not Required	Lateral Support Required	Lateral Support Required
Zone 3	All Locations	Not Required	Not Required	Lateral Support Required	Lateral Support Required
Zone 4	All Locations	Not Required	Not Required	Lateral Support Required	Lateral Support Required
Zone 5	All Locations	Not Required	Lateral Support Required	Lateral Support Required	Lateral Support Required

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