

Composite Decking Fixings

Lindapter composite decking fixings have all been designed in conjunction with the various decking manufacturers to ensure they fulfil the necessary requirements from ease of installation to carrying capacity. All the fixings are designed to fit inside the dovetail shaped re-entrant channel which is common throughout all the profiles and give a secure point from which building services can be suspended with guaranteed capacities.

To guarantee the published capacities it is important that all the Lindapter Composite Decking Fixings are installed only when the slab has been poured and the concrete reaches full strength.

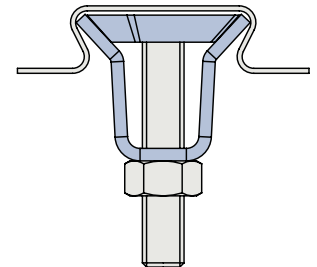
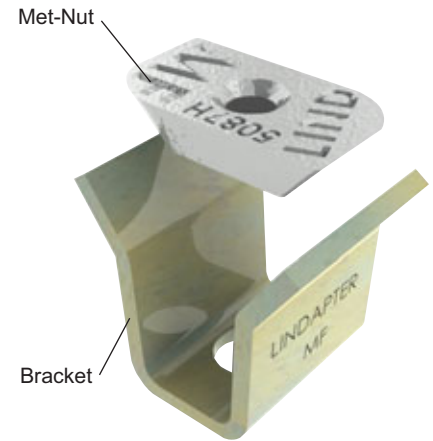
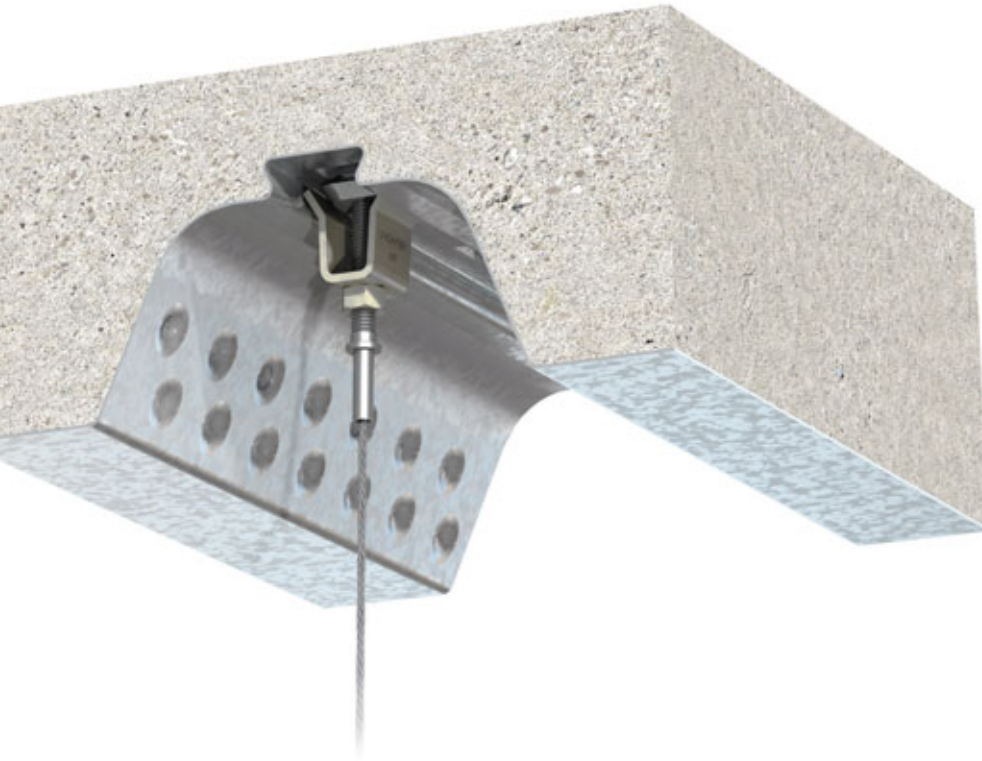
Advantages include:

- Speed of installation
- No special tools required
- No weakening of the decking profiles
- No damage of the surfaces of the decking
- No possibility of delamination
- Adjustable and easily removable



Type MF

Bracket: Steel strip, electro zinc plate (yellow iridescent) trivalent passivate plus JS 500
 Met-Nut: Malleable iron, bright zinc plated



The Type MF is designed for MetFloor® 60 & Metfloor 80 profiles manufactured by Composite Metal Flooring (CMF®).

Please note, although this fixing is similar in appearance to the Lindapter Type MW2, the Type MF should not be used in profiles manufactured by Kingspan Structural Products.

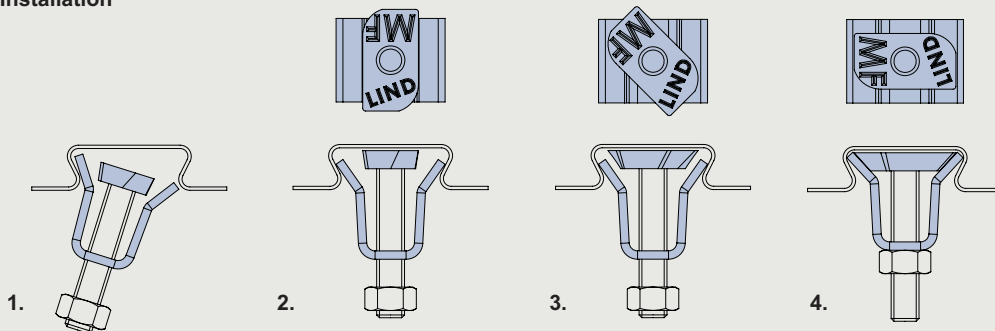
The application example above shows the Lindapter Type MF with an M8 Stud End Fixing (HF-DMFG-NO2-1M) manufactured by



The table opposite details safe working loads of the Lindapter Type MF installed with threaded rod, for load capabilities of the Gripple End Fixing, please visit www.gripple.com.

Product Code	Rod 4.6	Safe Working Load (3:1 Factor of Safety) Tensile / 1 rod kN	Torque Nm
MF06	M6	1.47	10
MF08	M8	1.47	10
MF10	M10	1.47	10

Installation

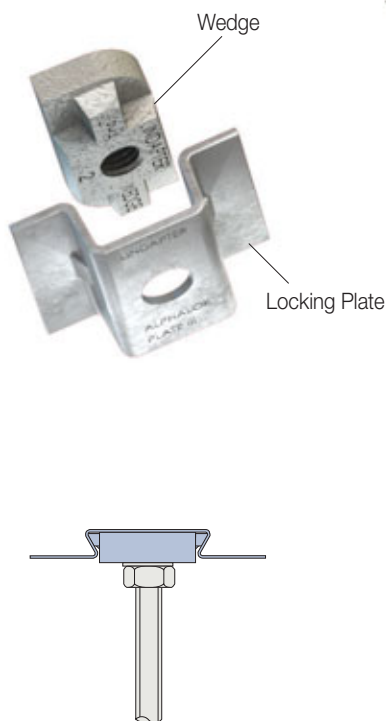


1. Pre-assemble the Met-Nut and bracket onto the threaded rod and insert one side of the bracket into the decking.
2. Insert the other side of the bracket to position inside the decking.
3. Using either the threaded rod or thumb and forefinger, turn the Met-Nut clockwise until the position in Fig. 4 has been achieved.
4. Tighten the nut on the rod to a torque of 10Nm / 7ft lbs (prevent rod from rotating).

NOTE: If the decking profile is deformed/distorted, the fixing should not be installed. If in doubt, please contact Lindapter's Technical Support Department for advice.

Type AW - Alphawedge

Locking Plate: Pre-galvanised strip
 Wedge: Malleable iron, bright zinc plated

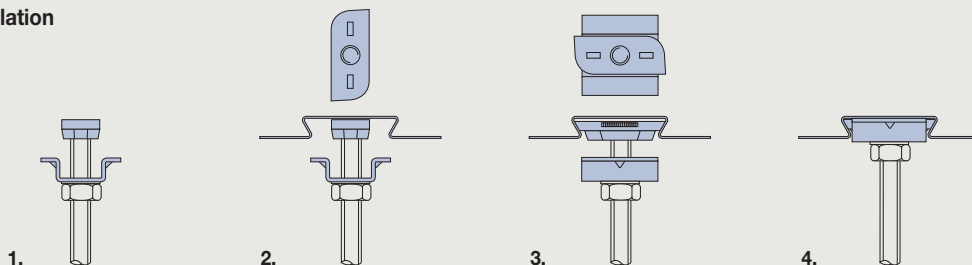


The Alphawedge is designed for Ribdeck AL, E60 and 80 profiles manufactured by Richard Lees Steel Decking (see page 52).

Product Code	Rod 4.6	Safe Working Load (3:1 Factor of Safety)	
		Tensile / 1 Rod kN	Torque Nm
AW06	M6	1.0	10
AW08	M8	1.0	10
AW10	M10	1.0	10

Order example: AW06

Installation

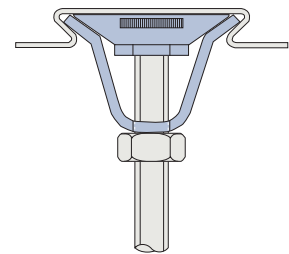
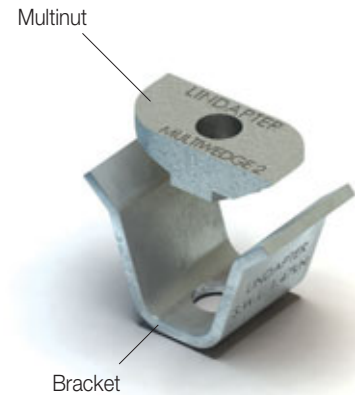


1. Pre-assemble the Alphawedge and Locking Plate onto the threaded rod (flat surface uppermost).
2. Insert wedge into the re-entrant channel of the decking, rotate 90°.
3. Slide plate up the threaded rod, over the wedge, to lock it in position into the channel.
4. Tighten the locknut beneath the plate to hold the assembly in position.

Type MW2 - Multiwedge 2

Bracket: Pre-galvanised strip

Multinut: Malleable iron, bright zinc plated

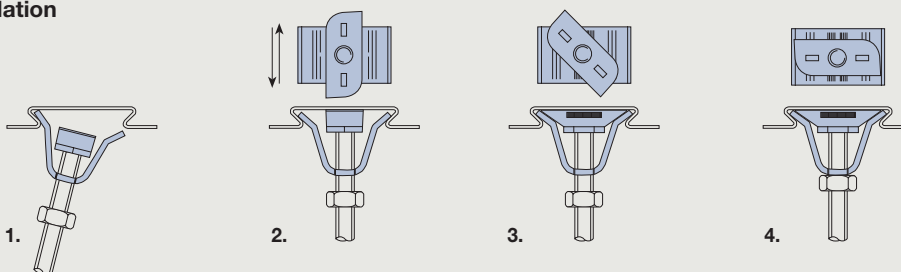


The Multiwedge 2 is designed for MD60 and MD80 profiles manufactured by Kingspan Structural Products (see page 52).

Product Code	Rod	Safe Working Load (3:1 Factor of Safety)	
		Tensile / 1 Rod kN	Torque Nm
MW06	M6	1.47	10
MW08	M8	1.47	10
MW10	M10	1.47	10

■ Order example: MW06

Installation

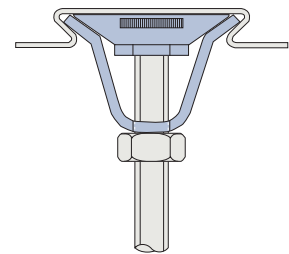
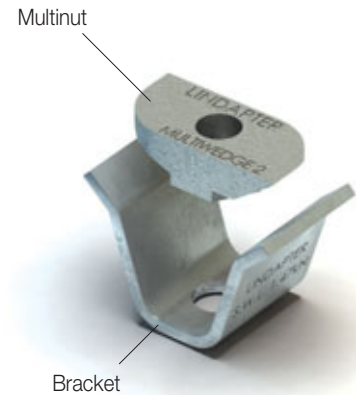


1. Position Multi-nut and bracket on threaded rod (flat surface uppermost) and insert one leg of bracket into re-entrant channel of decking. Snap other leg of bracket into channel.
2. Slide assembly to desired position along length of re-entrant channel.
3. Push and turn the multi-nut clockwise until it locks into the channel walls.
4. Tighten the hexagon nut beneath the assembly.

Type MW2 - Multiwedge 2

Bracket: Pre-galvanised strip

Multinut: Malleable iron, bright zinc plated

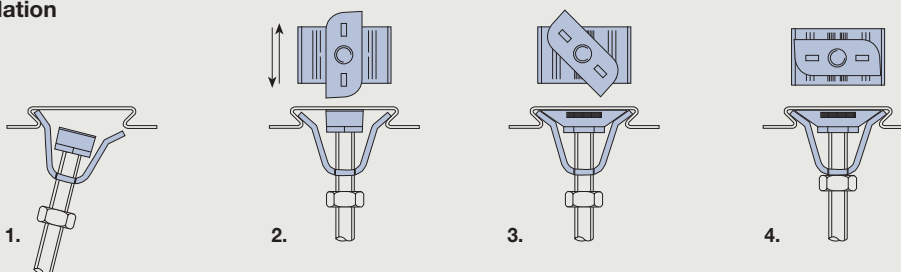


The Multiwedge 2 is designed for MD60 and MD80 profiles manufactured by Kingspan Structural Products (see page 52).

Product Code	Rod	Safe Working Load (3:1 Factor of Safety)	
		Tensile / 1 Rod kN	Torque Nm
MW06	M6	1.47	10
MW08	M8	1.47	10
MW10	M10	1.47	10

■ Order example: MW06

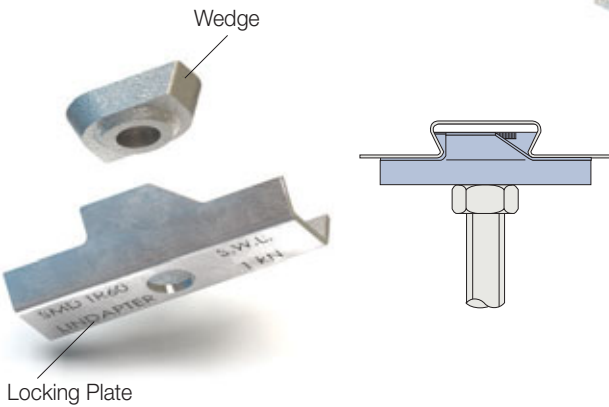
Installation



1. Position Multi-nut and bracket on threaded rod (flat surface uppermost) and insert one leg of bracket into re-entrant channel of decking. Snap other leg of bracket into channel.
2. Slide assembly to desired position along length of re-entrant channel.
3. Push and turn the multi-nut clockwise until it locks into the channel walls.
4. Tighten the hexagon nut beneath the assembly.

Type TR60

Locking Plate: Pre-galvanised strip
Wedge: Malleable iron, bright zinc plated

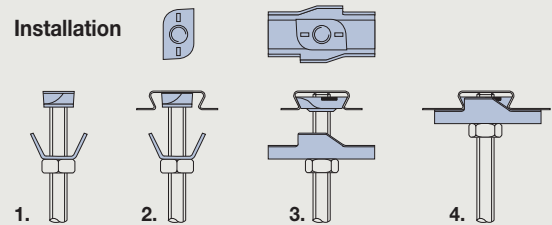


The TR60 is designed for TR60 and 80 profiles manufactured by Structural Metal Decks (see page 52).

Product Code	Rod	Safe Working Load (3:1 Factor of Safety)	
		Tensile / 1 Rod	Torque
		kN	Nm
TR6006	M6	1.0	10
TR6008	M8	1.0	10
TR6010	M10	1.0	10

Order example: TR6006

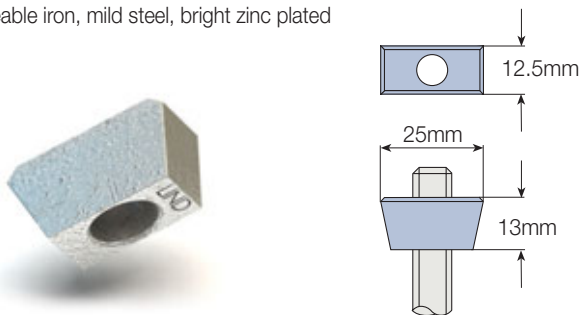
Installation



1. Pre-assemble the wedge and locking plate onto the threaded rod (flat surface uppermost).
2. Insert wedge into the re-entrant channel of the decking and rotate until the chamfered cams engage on the sides of the channel.
3. Slide the plate up the threaded rod and over the wedge to lock it into position in the channel.
4. Tighten the locknut beneath the plate to hold the assembly in position.

Type VN - V-Nut

Malleable iron, mild steel, bright zinc plated

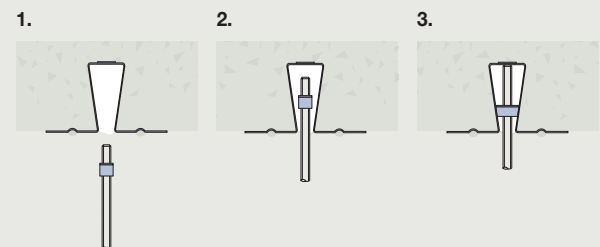


The V-Nut fits the re-entrant channel of several composite floor deckings (see page 52).

Product Code	Rod	Safe Working Load (4:1 Factor of Safety)	
		Tensile / 1 Rod	Torque
		kN	Nm
VN06	M6	1.8	10
VN08	M8	2.0	10
VN10	M10	2.1	10

Order example: VN06

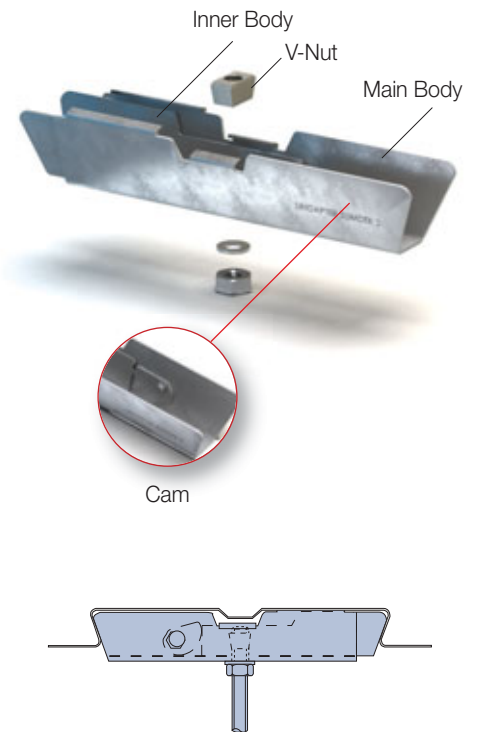
Installation



1. Screw VN onto threaded rod.
2. Insert VN and rod into re-entrant channel of decking.
3. Rotate both rod and VN through 90° so that tapered sides engage the sides of the channel.

Type SD2 - Slimdek 2

Pre-galvanised strip

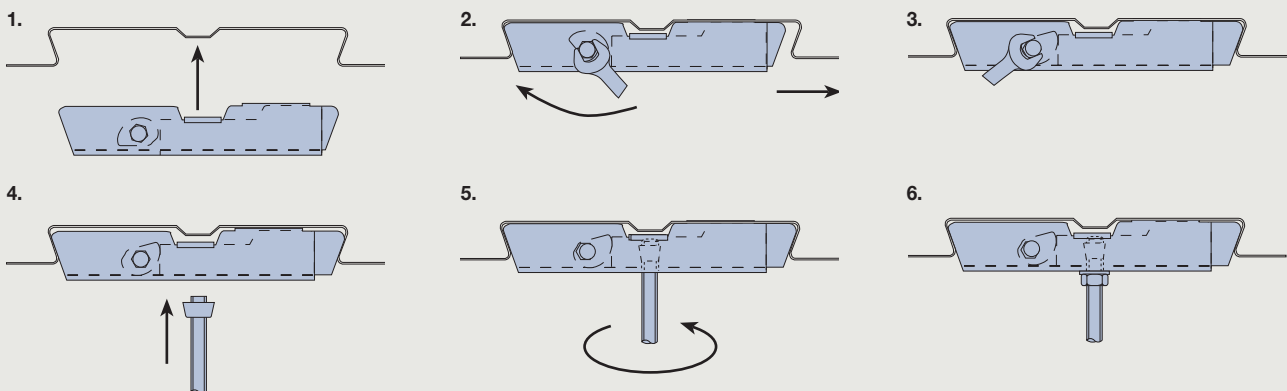


The Slimdek 2 is designed for the CF225 profile manufactured by Corus Panels and Profiles. It gives a fully flexible suspension position (see page 52).

Product Code	Rod	Safe Working Load (3:1 Factor of Safety)	
		Tensile / 1 Rod kN	Torque Nm
SD206	M6	1.0	12
SD208	M8	1.0	12
SD210	M10	1.0	12

■ Order example: SD206

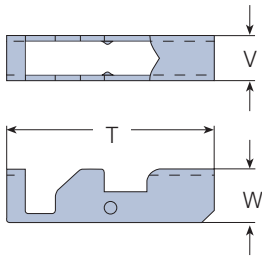
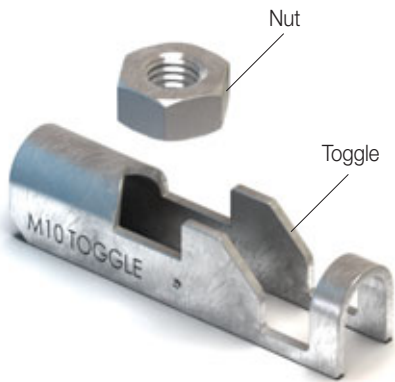
Installation



1. With Slimdek 2 in its retracted position (as supplied) locate the fixing in the re-entrant channel.
2. Hold Slimdek 2 in position with one hand, then rotate cam into the direction shown above with a spanner.
3. Rotate the nut until the inner body of the fixing locates against the re-entrant channel, and the nut feels tight.
4. Offer the V-Nut on a threaded rod up to the main body.
5. Rotate V-Nut through 90° to allow it to sit at the bottom of the Slimdek 2 body.
6. Secure the assembly with a nut.

Type TC - Toggle Clamp

Steel Strip, bright zinc plated

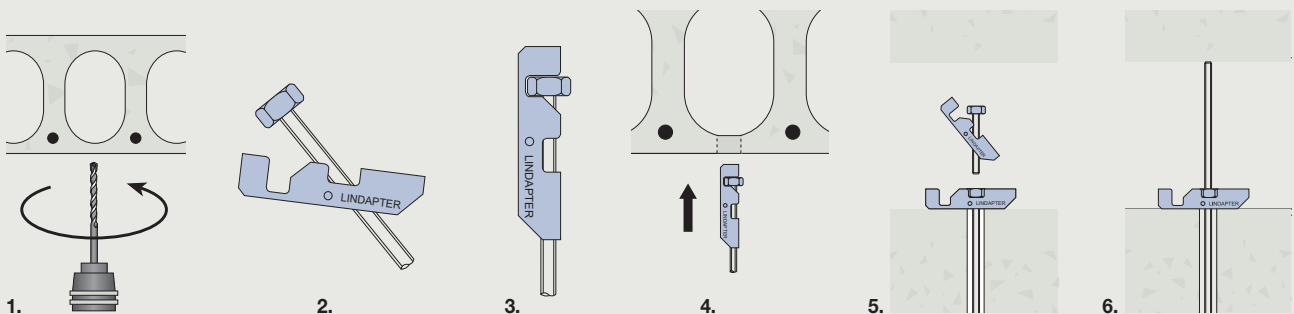


The Toggle Clamp is designed for service suspension from pre-cast hollow core slabs (minimum depth of core 75mm) as well as SHS, steel sheeting or purlins.

Product Code	Rod min. 8.8	Hole Ø mm	Safe Working Load (4:1 Factor of Safety)		Dimensions		
			Tensile / 1 Rod kN	Torque Nm	T mm	W mm	Width V mm
TC08	M8	22	2.45	10	68	16.5	13
TC10	M10	25	2.45	10	68	17.5	15

Order example: TC08

Installation

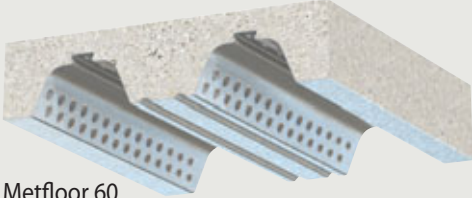


1. Drill hole. If toggle is to be used to support from pre-cast hollow core slab, ensure hole is central to hollow core.
2. Insert threaded rod through toggle, ensuring nut is flush with end of rod.
3. Align toggle parallel with rod, so that nut engages into the retaining cavity.
4. Offer up the assembly, inserting the toggle body completely through the hole.
5. Shake rod so that toggle body locates horizontally across hole. Allow rod to drop down so that the nut locates in the seat in the toggle body.
6. Wind up rod to top of section as shown as high as possible. Secure the assembly with a nut and washer.

Decking Profiles

Composite Metal Flooring (CMF)

- Metfloor 60
- Metfloor 80



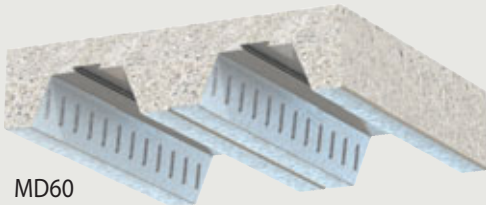
Richard Lees Steel Decking

- Ribdeck AL
- Ribdeck E60
- Ribdeck 80



Kingspan Structural Products

- MD60
- MD80



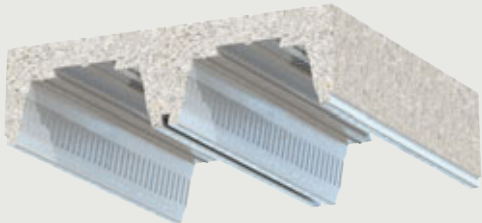
Structural Metal Decks

- TR60
- TR80



Corus Panels & Profiles

- CF225



Structural Metal Decks

- R51

Corus Panel & Profiles

- CF51

Richard Lees Steel Decking

- Holorib

Composite Metal Flooring (CMF)

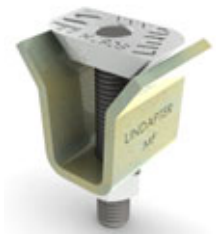
- Metfloor 55

Kingspan Structural Products

- MD50

Lindapter Decking Fixings

Type MF



Type AW



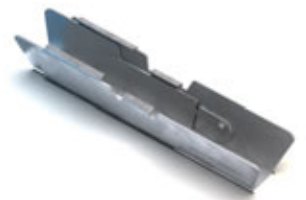
Type MW2



Type TR60



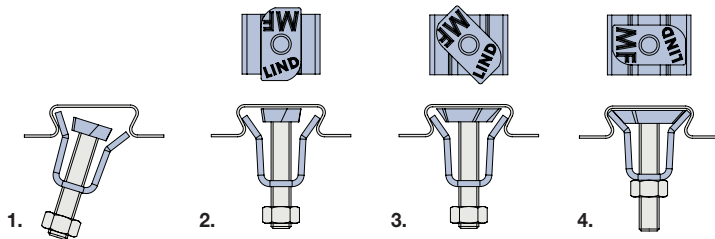
Type SD2



Type VN

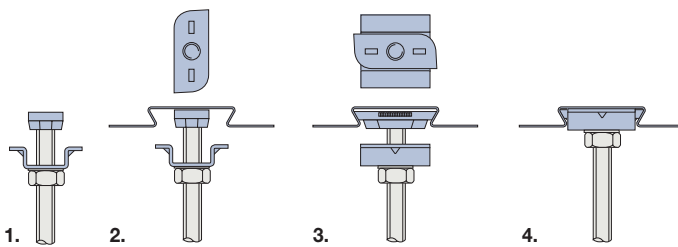


Installation



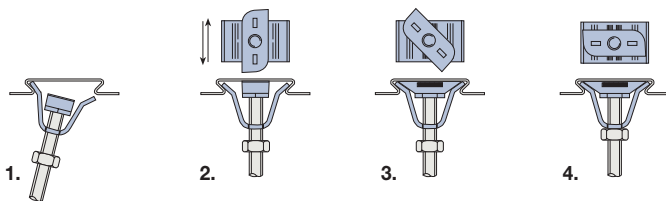
Type MF

1. Pre-assemble the Met-Nut and bracket onto the threaded rod and insert one side of the bracket into the decking.
2. Insert the other side of the bracket to position inside the decking.
3. Using either the threaded rod or thumb and forefinger, turn the Met-Nut clockwise until the position in Fig. 4 has been achieved.
4. Tighten the nut on the rod to a torque of 10Nm / 7ft lbs (prevent rod from rotating).



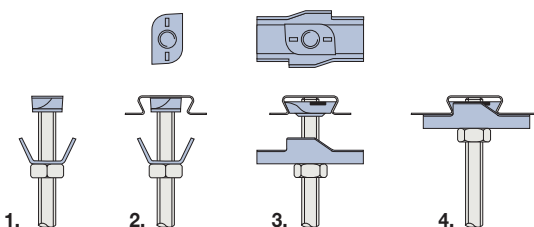
Type AW - Alphawedge

1. Pre-assemble the Alphawedge and locking plate onto the threaded rod (flat surface uppermost).
2. Insert wedge into the re-entrant channel of the decking, rotate 90°.
3. Slide plate up the threaded rod, over the wedge, to lock it in position into the channel.
4. Tighten the nut on the rod to a torque of 10Nm / 7ft lbs (prevent rod from rotating).



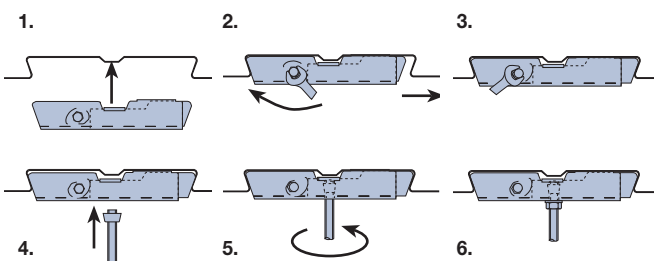
Type MW2 - Multiwedge 2

1. Position Multi-Nut and bracket on threaded rod (flat surface uppermost) and insert one leg of bracket into re-entrant channel of decking. Snap other leg of bracket into channel.
2. Slide assembly to desired position along length of re-entrant channel.
3. Push and turn the multi-nut clockwise until it locks into the channel walls.
4. Tighten the nut on the rod to a torque of 10Nm / 7ft lbs (prevent rod from rotating).



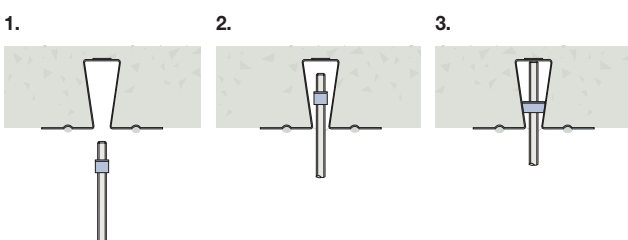
Type TR60

1. Pre-assemble the wedge and locking plate onto the threaded rod (flat surface uppermost).
2. Insert wedge into the re-entrant channel of the decking and rotate until the chamfered cams engage on the sides of the channel.
3. Slide the plate up the threaded rod and over the wedge to lock it into position in the channel.
4. Tighten the nut on the rod to a torque of 10Nm / 7ft lbs (prevent rod from rotating).



Type SD2 - Slimdek 2

1. With Slimdek 2 in the retracted position (as supplied) locate the fixing in the re-entrant channel.
2. Using a spanner, rotate the hexagon nut on the side of the Slimdek 2 body to move the cam in the direction illustrated.
3. Expand the inner body to secure with the re-entrant channel.
4. Offer the V-Nut on a threaded rod up through the slot.
5. Rotate the V-Nut 90° to sit at the bottom of Slimdek 2 body.
6. Secure the assembly with a nut and tighten to a torque of 12Nm / 8.8ft lbs (prevent rod from rotating).



Type VN - V-Nut

1. Screw VN onto threaded rod.
2. Insert VN and rod into re-entrant channel of decking.
3. Rotate both rod and VN through 90° so that tapered sides engage the sides of the channel.