TFLS Levelling System

The TFLS provides the combined function of levelling and fixing the timber sole plate to the foundation or substructure.

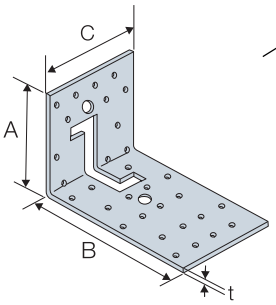
It comprises a universal base plate and packing pieces which can be added or removed as required. The system transfers vertical and lateral loads from the wall to the foundation.

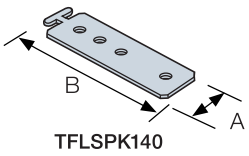
Material: Pre-galvanised mild steel.

- Suitable for use with traditional timber frame walls and closed panel systems.
- Adaptable - accommodates structural packing up to 30mm deep.
- Universal - suitable for wall widths of 89mm and 140mm.
- Flexible - packing pieces can easily be added or removed from the base plate to achieve the required depth.
- Structural - satisfies NHBC requirements for permanent structural packing of the sole plate when installed at load points.
- Multiple holes in the bracket offer a variety of fixing options.

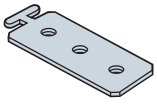
Product Dimensions – Bracket

References	Dimensions [mm]				Holes			
					Flange A		Flange B	
	A	B	C	t	Ø3	Ø8	Ø3	Ø8
TFLSB	90	140	80	1	16	1	25	1
TFLSB75	90	75	80	1	16	1	10	0





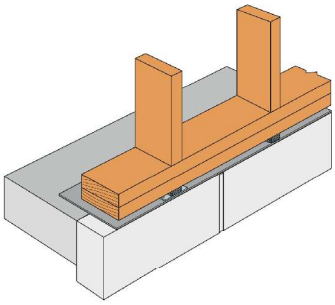
TFLSPK140



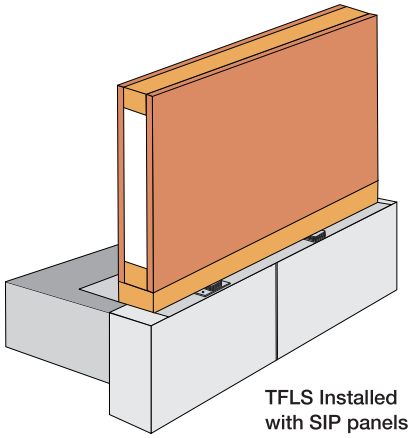
TFLSPK89

Product Dimensions – Packers

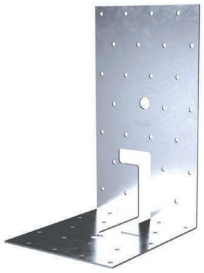
References	Dimensions [mm]			Holes
	A	B	t	Ø8
TFLSPK89	39	89	2	3
TFLSPK140	39	140	2	4



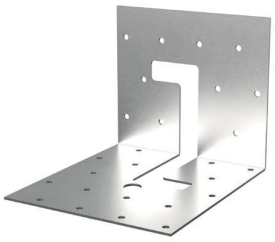
Typical TFLS installation



TFLS Installed with SIP panels



TFLSB



TFLSB75

Please Note:

- The TFLS is laid on top of the damp proof course.
- Fixing of the TFLS bracket to the foundation and the sole plate shall be in accordance with the engineer's instructions.
- If the TFLS bracket and/or packers are installed at every load point then it is not necessary to fill the void between the underside of the sole plate and the foundation with structural grout (filling of void may be required to satisfy other regulations or requirements, i.e. Part L and Part E regulations).

TFLS Levelling System

Standard Installation.

Starting at the highest point of the foundation slab, position and install the TFLS bracket, including one packer underneath the sole plate.

Position and install a second TFLS bracket at one end of the sole plate and level to the first by adding packers to the second TFLS bracket. If necessary, install a third TFLS at the other end of the sole plate and level to the first.

Infill between TFLS brackets with additional brackets. Level by adding packers as necessary to each bracket. Ideally position infill brackets under load points (stud positions) at centres specified by the engineer/building designer.

Repeat process around the rest of the building. Once the ground floor walls are in situ, install packers under the load points not supported by a TFLS bracket.

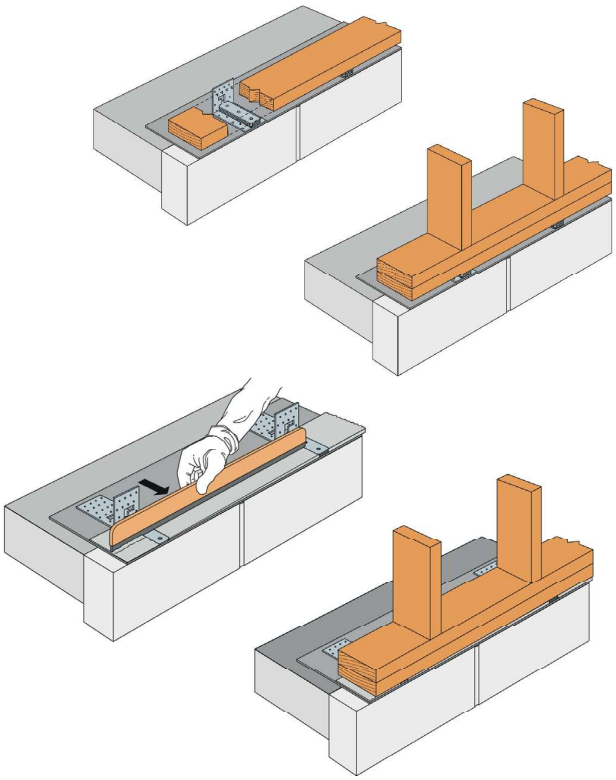
Alternate Installation (aids levelling of the mortar bed).

Starting at the highest point of the foundation slab, position and install the TFLS bracket including one packer.

Position and install a second TFLS bracket at the opposite end of the foundation slab and level to the first by adding packers as necessary to the second TFLS bracket.

Infill between first and second TFLS brackets with additional brackets. Level by adding packers as necessary to each bracket.

Using the levelled TFLS as a guide, mortar between the brackets to produce a level base for the sole plate to sit on - ensuring the mortar bed is the full width of the sole plate.



SPA Sole Plate Anchor

The SPA is a versatile bracket used to attach timber sole plates to concrete foundations.

Installation:

- Fasteners can be located where suitable.
- The SPA is laid on top of the damp proof course, lined up and shotfired to the concrete base.
- The timber is then laid down and secured with nails through the upright flange of the anchor.

Material: Pre-galvanised mild steel.

Product Dimensions

References	Dimensions [mm]				Holes Flange A	Holes Flange B
	A	B	C	t	Ø3	Ø3
SPA38	37	191	83	1	8	28
SPA50	52	177	83	1	8	28