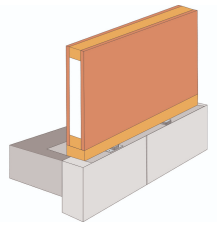
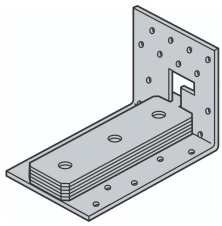
Technical Sheet

TFLS
Timber Frame Levelling System

TFLS provides the combined function of levelling and fixing the 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.

- *Suitable for use with traditional timber frame walls and closed panel systems.*
- *Adaptable - accommodates structural packing up to 30mm deep.*
- *Universal - suitable for walls of 89mm and140mm construction.*
- *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 nail holes in bracket offer a variety of nailing options.*





Features

Material

- Pre-galvanised mild steel.

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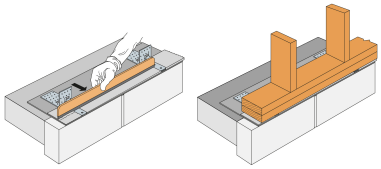
Technical Data



Product Dimensions - Bracket

Reference	Connector Dimensions								
	Product Dimensions[mm]				Joist		Flange B		Other
					Round		Round		
	A[mm]	B[mm]	C[mm]	Thickness[mm]	Ø3	Ø8	Ø3	Ø8	Weight[kg]
TFLSB	140	90	80	1	25	1	16	1	0.12
TFLSB75	75	90	80	1	10	-	16	1	0.09

Product Dimensions - Packers

Reference	Connector Dimensions				
	Product Dimensions[mm]			Holes	Other
				Round	
	A[mm]	B[mm]	Thickness[mm]	Ø8	Weight[kg]
TFLSPK89	39	89	2	3	0.054
TFLSPK140	39	140	2	4	0.083

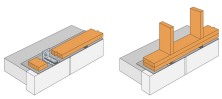
Installation

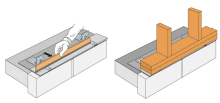
Standard Installation

- Starting at the highest point of the foundation slab, position and install the TFLSB bracket, including one packer underneath the sole plate.
- Position and install a second TFLSB bracket at one end of the sole plate and level to the first by adding packers to the second TFLSB bracket. If necessary, install a third TFLSB at the other end of the sole plate and level to the first.
- Infill between TFLSB 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 TFLSB bracket.

Alternative installation (aids levelling the mortar bed)

- Starting at the highest point of the foundation slab, position and install the TFLSB bracket including one packer.
- Position and install a second TFLSB bracket at the opposite end of the foundation slab and level to the first by adding packers as necessary to the second TFLSB bracket.
- Infill between first and second TFLSB brackets with additional brackets. Level by adding packers as necessary to each bracket.
- Using the levelled TFLSB 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.





Technical Notes

Notes

- The TFLSB is laid on top of the DPC.
- Fixing of the TFLSB bracket to the foundation and the sole plate shall be in accordance with the engineer's instructions.
- If the TFLSB 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).

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