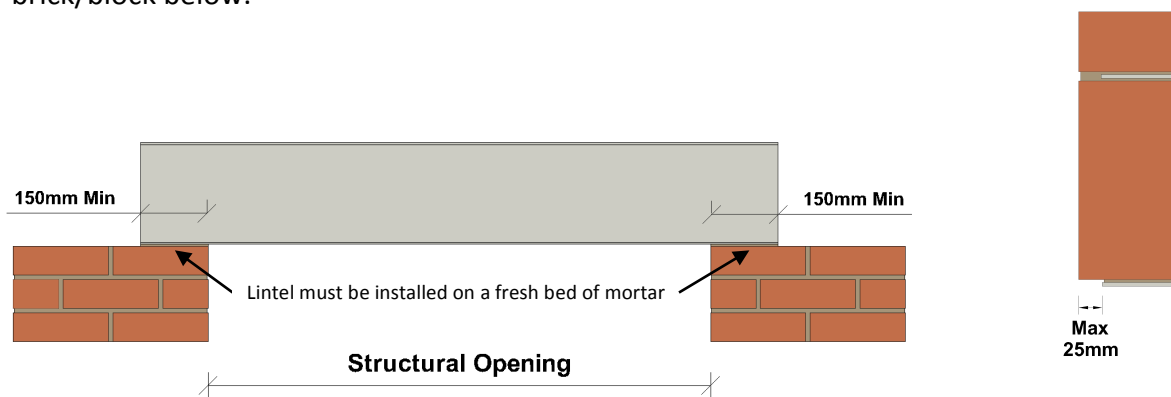


Installation

Prior to installation, the lintel and bricks slips should be examined carefully for any defects or signs of damage. If any damage is present the lintel should not be installed and Fab-Steel Ltd should be contacted. The lintel should always be installed onto a bed of fresh mortar at the bearing ends. During the installation and bedding it is important to ensure that the lintel is levelled both along its length and across its width.

A minimum of 150mm end bearing must be achieved at either end of the lintel unless specified otherwise by Fab-steel Ltd. A maximum masonry overhang of 25mm over the front edge of the lintel must also be maintained. The lintel must always bear onto a full brick/block below.



Lintels should always be propped during construction to achieve the safe working load capacities declared in the published design tables. A separate DPC is required above the lintel. Wall ties should be installed within 300mm of the lintel at a maximum of 450mm centres to ensure that the masonry carried by the lintel is restrained and any potential overturning and deflection is minimised.

The standard lintel range is supplied in 150mm incremental lengths. Lintels of alternative lengths and load capacities outside of the details provided in the published load tables can be designed and supplied to meet with project specific requirements. Lintels should be selected to ensure that a minimum of 150mm bearing either side of the opening is always achieved.

In accordance with NHBC requirements, lintels used in external walls should be installed with a separate flexible damp proof course. This should be combined with either stop ends or as an alternative the DPC should extend between 50 and 150mm beyond the end of the lintel bearing.

Restrictions

1. Lintels must never be cut to length or modified in any way without prior permission from Fab-Steel Ltd
2. No more than 1.5 metres of brickwork should be built off the lintel in one day in accordance with PD 6697:2010.
3. Where the method for assessing the load carried by lintels is designed in accordance with BS EN 1996-1-1 it is assumed that:
 - a. The masonry is constructed following the recommendations of BS EN 1996-2.
 - b. The height of masonry above the lintel at mid-span is not less than 0.6 times the clear span of the lintel.
 - c. The height of masonry above the supports is not less than 600 mm.
 - d. The masonry is continuous within the area defined by the conditions given in b) and c).
 - e. Where there is a single opening spanned by the lintel, the width of masonry on either side of the opening is not less than 600 mm or 0.2 times the clear span of the lintel whichever is the greater.
 - f. Where there is a series of openings at the level of the opening spanned by the lintel, the length of masonry between the external corner of the wall and the side of the adjacent opening is not less than 600 mm or 0.2 times the longest clear span, whichever is the greater.

Shuffle Brick

Pro-steel Stretcher Bond Lintels are typically supplied with a 'Shuffle Brick' arrangement to allow the lintel to be coursed into the facing brickwork regardless of whether the opening starts on a half or full brick. Structural openings are most typically set at divisions of full or half brick dimensions. The illustration below demonstrates how the stretcher bond lintel should be set to accommodate for the various coursing conditions.

