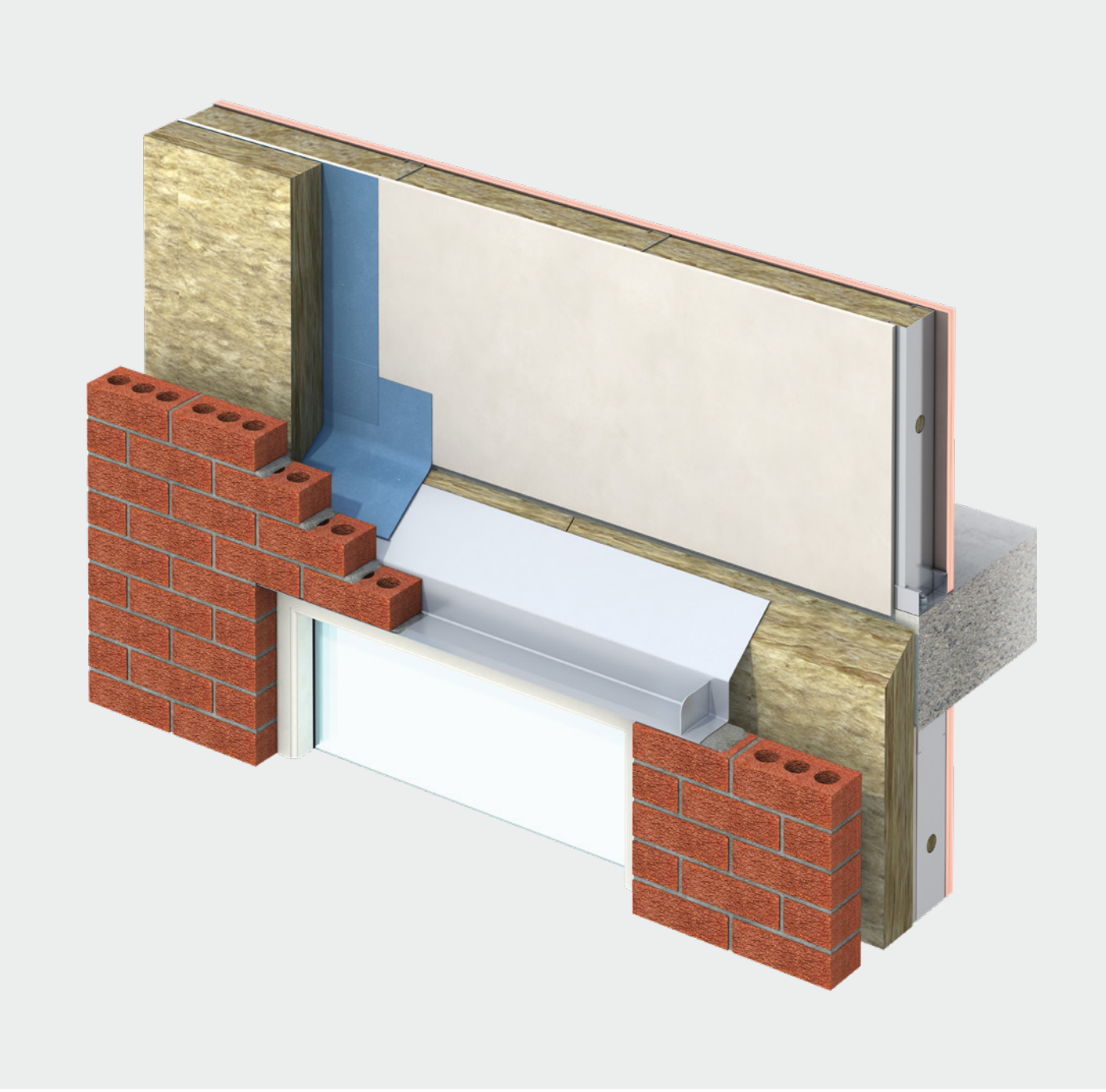
NCCTL

Non-combustible
Cavity Tray Lintel - Technical Data Sheet



Keyfix NCCTL
Non-combustible Cavity Tray Lintel

The Keyfix Non-combustible Cavity Tray Lintel (NCCTL) offers a non-combustible stainless steel single leaf lintel with combined Cavity Tray. For use in an exterior masonry skin in conjunction with a non-masonry inner leaf such as a steel frame system, the NCCTL is a highly efficient and practical solution to the challenge of non-combustible cavity detailing.

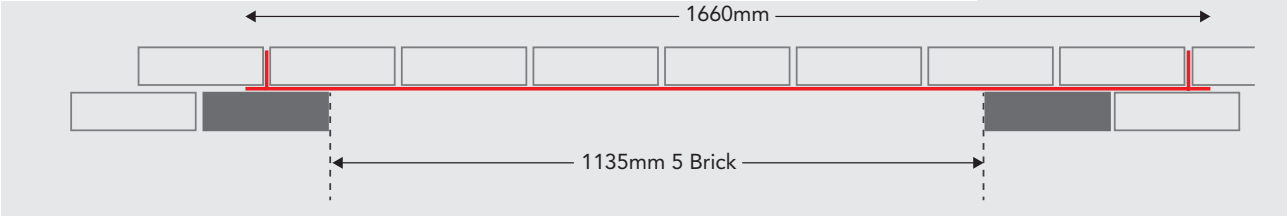
In all residential purpose group buildings over 11m in height, Document B prevents the use of plastic DPCs. Galvanised lintels cannot be used without a DPC, as the DPC protects the galvanised surface against attack from alkalis present within mortars etc. Stainless steel trays cannot be used with galvanised lintels due to galvanic corrosion caused by reactions between dissimilar materials.

Keyfix NCCTL
Product Properties

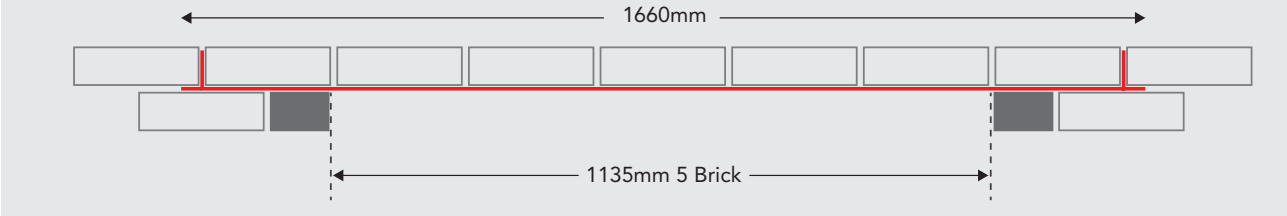
Standard	To BS EN 845-2
Manufacturer	Keystone Lintels Ltd Ballyreagh Industrial Estate, Sandholes Road Cookstown, BT80 9DG. (BS EN ISO 9001 and BS EN ISO 14001 certified).
Product Reference	Non-combustable Cavty Tray Lintel (NCCTL)
Opening Size	Supporting External Leaf only, maximum clear span 3047mm
Types	As per manufacturers recommendations
Materials / Finish	Austenitic stainless steel, grade 304 to BS EN 10088-2
Sizes	Designed to suit span, loading wall and finish type
Placements	Bed on mortar Bearing length (minimum) 150mm
Cavity widths accommodated	50mm and above
Behaviour in relation to fire	NCCTL manufactured from Stainless Steel have an A1 fire classification defined by Commission Decision 96/603/EC. No test required.

As the NCCTL is fitted with a prepositioned, mechanically fixed Stop End to fit within perpend joint, the NCCTL must be specified by brickwork opening dimensions. Brickwork course and bond layout immediately below the lintel does not affect overall lintel length but will influence the lintel position over an opening.

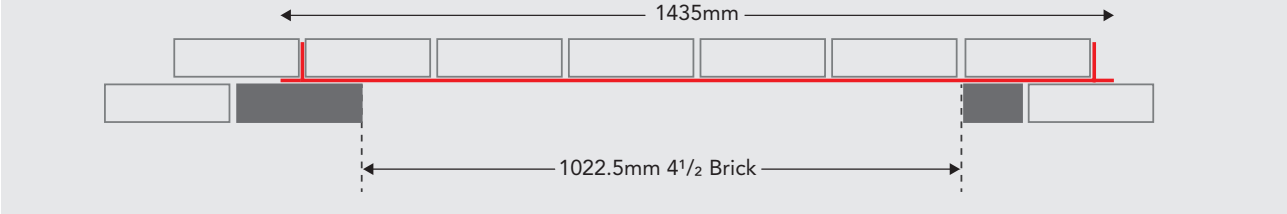
NCCTL supported on reveals by full bricks



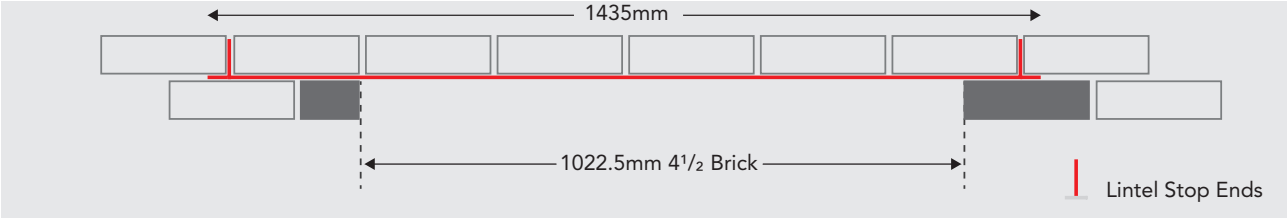
NCCTL supported on reveals by half bricks



NCCTL supported on reveals by a full brick and a half brick



NCCTL supported on reveals by a half brick and a full brick



Note - Stop End positions are based on 215mm stretcher bond as standard.

Please notify Keyfix Technical Team if you require any variation from this.

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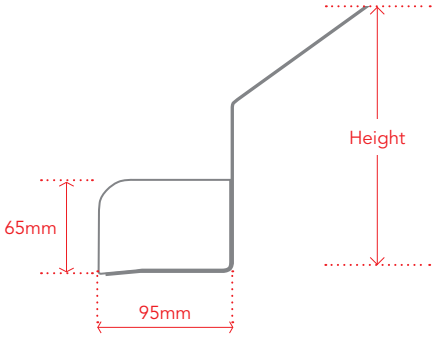
Standard Range			
Brickwork Opening (mm)	460 - 1472	1585-1922	2035-3047
Lintel Height (mm)	179	229	279
Total UDL (kN)	6	10	8

Heavy Duty Range Range			
Brickwork Opening (mm)	460 - 1472	1585-1922	2035-3047
Lintel Height (mm)	229	279	279
Total UDL (kN)	13	17	18

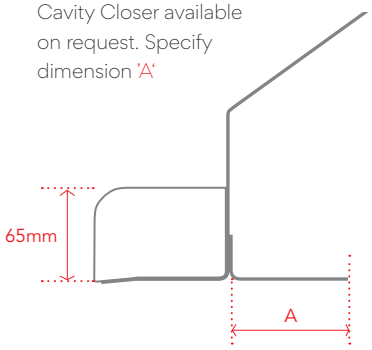
Extra Heavy Duty Range			
Brickwork Opening (mm)	460 - 1472	1585-1922	—
Lintel Height (mm)	279	279	—
Total UDL (kN)	26	36	—

Other cavity sizes available upon request

Keyfix NCCTL Lintel Height



Cavity Closer available on request. Specify dimension 'A'



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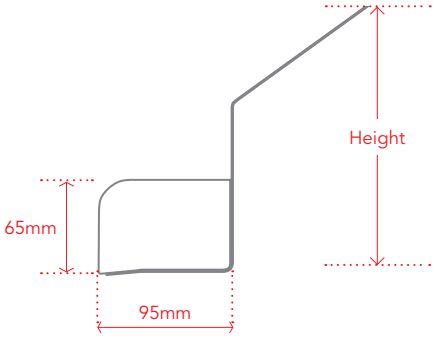
Standard Range			
Brickwork Opening (mm)	460 - 1472	1585-1922	2035-3047
Lintel Height (mm)	179	229	279
Total UDL (kN)	6	8	7

Heavy Duty Range Range			
Brickwork Opening (mm)	460 - 1472	1585-1922	2035-3047
Lintel Height (mm)	229	279	279
Total UDL (kN)	13	17	15

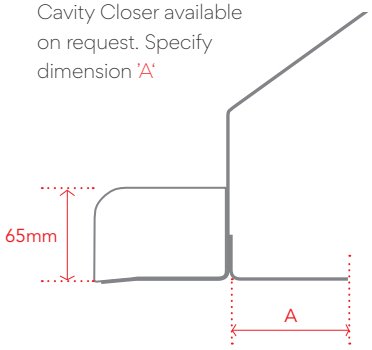
Extra Heavy Duty Range			
Brickwork Opening (mm)	460 - 1472	1585-1922	—
Lintel Height (mm)	279	279	—
Total UDL (kN)	26	36	—

Other cavity sizes available upon request

Keyfix NCCTL Lintel Height



Cavity Closer available on request. Specify dimension 'A'



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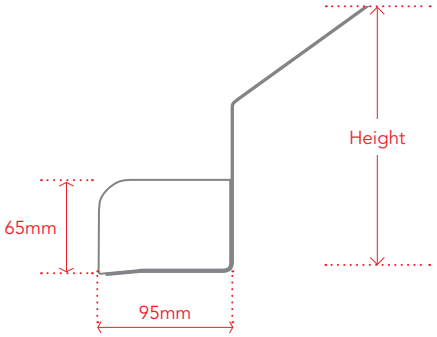
Standard Range			
Brickwork Opening (mm)	460 - 1472	1585-1922	2035-3047
Lintel Height (mm)	179	229	279
Total UDL (kN)	5	7	6

Heavy Duty Range Range			
Brickwork Opening (mm)	460 - 1472	1585-1922	2035-3047
Lintel Height (mm)	229	279	279
Total UDL (kN)	12	14	15

Extra Heavy Duty Range			
Brickwork Opening (mm)	460 - 1472	1585-1922	—
Lintel Height (mm)	279	279	—
Total UDL (kN)	24	36	—

Other cavity sizes available upon request

Keyfix NCCTL Lintel Height



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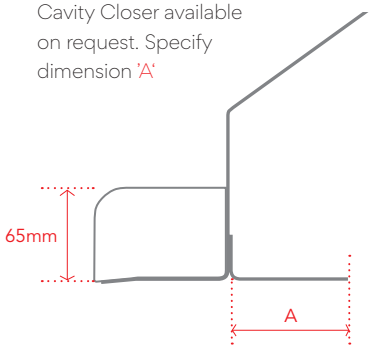
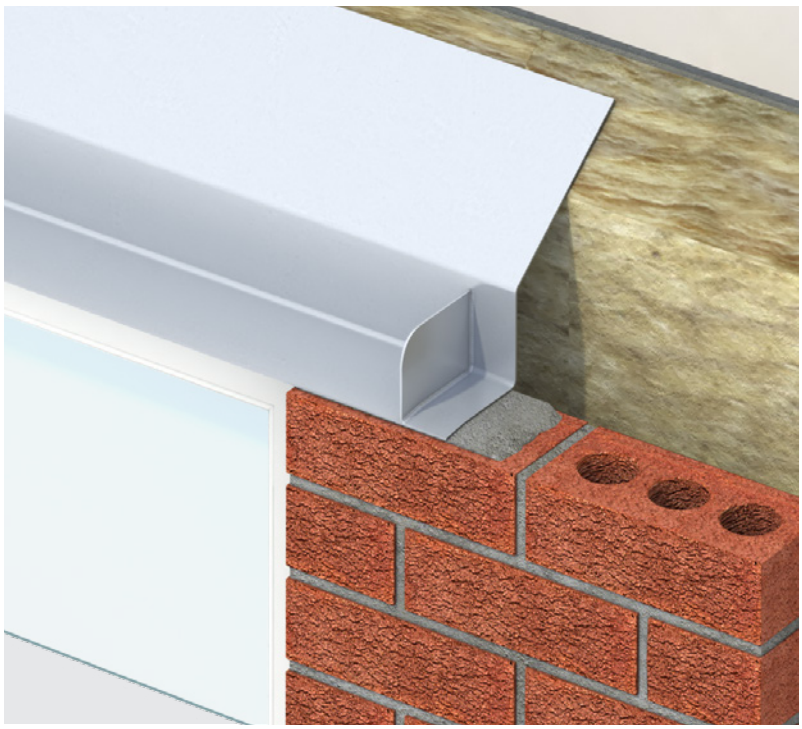


Keyfix NCCTL Install Guide

NCCTL

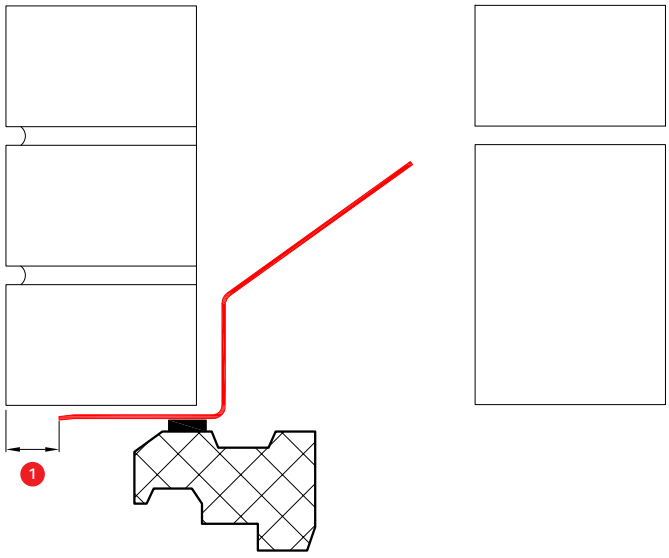
01 Minimum 150mm End Bearing

Lintels should be installed with a minimum end bearing of 150mm taking into account the positioning of the lintel's Stop Ends. The lintel should be bedded in mortar and levelled along its length and across its width.



02 Maximum overhang 25mm

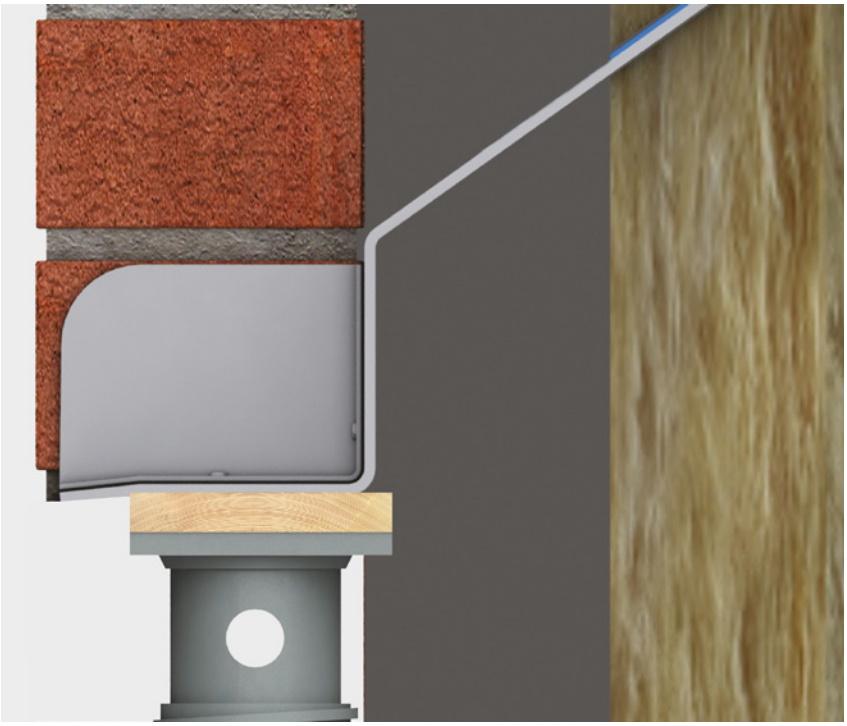
The masonry above the lintel should be built in accordance with BS EN 1996-2-2006. Masonry must not overhang the lintel flange by more than 25mm.



1 Maximum overhang 25mm

03 Temporary Propping

Temporary propping beneath the lintel can be used to facilitate speed of construction.



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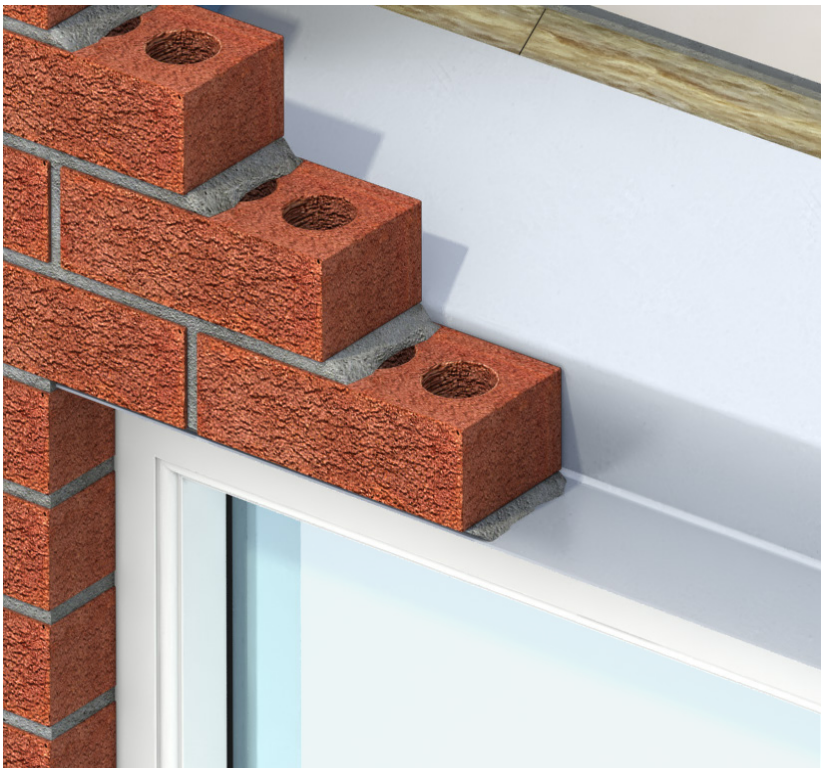
04 External Lintel Flange

The external lintel flange must project beyond the window / door frame.



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