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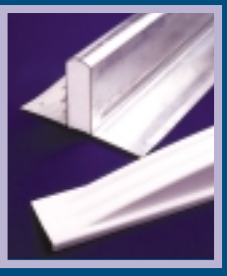
STEEL LINTELS

BROCHURE

EXPAMET BUILDING PRODUCTS

JULY 03



Information about Steel Lintels

So what is a lintel?

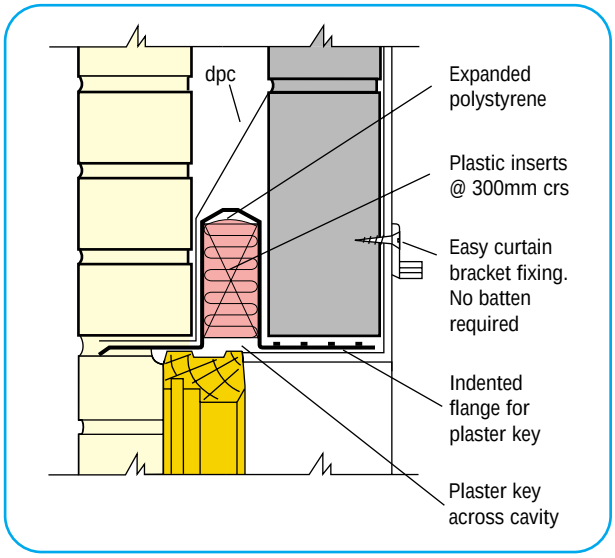
Simple lintels support masonry, floors and roofs over openings. They are made of stone, timber, concrete and steel.

Why steel lintels?

Because steel is lighter, easy to install and in most cases more durable. Only steel can satisfy the demands of the modern building industry.

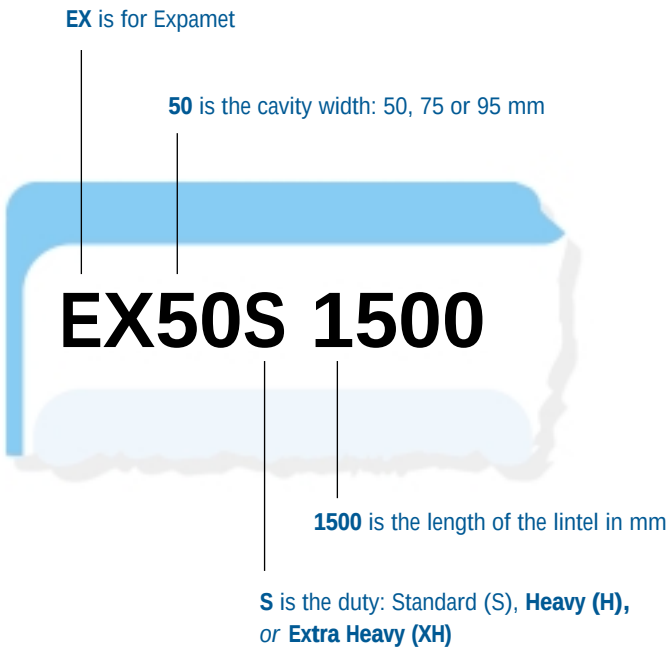
What's so special about our Lintel products and service?

The philosophy of Expamet is to provide products that are designed and manufactured to offer a better way of working.



Innovation based on close monitoring of market needs now provides a comprehensive range of lintels that offer significant time and cost savings on site.

What do our product codes mean?



As the lintel gets longer the upstand gets higher and the steel gets thicker but the lintel reference remains the same - the only thing that changes is the lintel length reference.

Lintel Benefits

'Top hat' profile achieved without welding offers significant durability and structural advantages:

- Maintains the integrity of the wall structure and its thermal properties
- Design and polystyrene infill gives excellent thermal efficiency - 'U' value of less than 0.45W/m^{2}K
- No differential expansion of dissimilar materials associated with box section lintels
- Grooved polystyrene in cavity and semi-pierced slots on the inner flange provide excellent 'key' for the plaster finish

Frequently asked questions about lintels

HERE ARE THE TEN MOST FREQUENTLY ASKED QUESTIONS - **AND THE ANSWERS!**

Does an Expamet lintel have to be installed with a minimum 150mm end bearing each side?

No it is not imperative or practical in some cases. It is quoted because it is an industry standard but it is ultimately dependent on the load being supported - web buckling and blockwork crushing may need to be considered. Use 100mm as an absolute minimum (check with the Expamet Technical Department if in any doubt).

Does an Expamet lintel which is about to be installed in an external cavity wall have to be protected by a DPC/cavity tray?

Not in all cases - if adequate protection is offered by an eaves overhang or balcony. Generally, however, lintels in exposed situations should have a DPC/cavity tray.

Are the loads quoted in the Expamet brochure working or ultimate loads?

They are safe working loads - generally working loads are used with lintels and ultimate loads with structural steelwork.

Note: Loads are spread evenly over the effective span not per linear metre.

Can light point loads, such as floor joists, sit directly on the flange of a standard lintel?

No, under no circumstances - there should be a minimum of 150mm brick/blockwork between the joist/beam etc and the lintel flange.

(However, they can be sat directly on top of TPH, RSI, W100C and box type lintels depending on loads).

How are the safe working loads (SWL) for Expamet lintels derived?

By calculation and testing in accordance with BS 5977: Part 2: 1983 and BBA requirements.

Can a 140mm block be supported on a 100mm flange?

No, the maximum overhang is 25mm (NHBC Regulations for masonry walls).

Do lintels need fire protection?

Yes, different buildings require different levels of fire protection and expert advice should be sought from Local Authority Building Control Departments.

Can higher safe working loads than those quoted in the Expamet brochure be achieved?

Yes, in certain circumstances. Consult the Expamet Technical Department or a chartered engineer.

Are special lintels (e.g. arches) 'off-the-shelf' stock items?

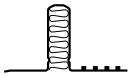
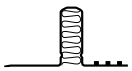
No, all special design lintels are manufactured to order.

Note: Details of non-standard lintels to suit most wall constructions/loading conditions are available from the Expamet Technical Department.

Are Cavity Lintels insulated as standard?

Yes, all external cavity wall lintels are insulated as standard with the exception of the RSI lintels.

Lintel Selection Guide

Outside Leaf (mm)	Cavity Width (mm)	Inside Leaf (mm)		Standard	Page No.	Heavy Duty	Page No.	Extra Heavy Duty	Page No.
CAVITY WALL									
102 102 102	50 60 70	100-125 100-115 100		EX50S	7	EX50H	7	EX50XH	7
102 102 102	50 60 70	125-150 125-150 125		EX50SWI	7	EX50HWI	7	EX50XHWI	7
125-150 125-150 125-150	50 60 70	100-125 100-115 100		EX50SWO	8				
102 102 102	70 80 95	100-125 100-125 100		EX75S	9	EX75H	9	EX75XH	9
102 102 102	70 80 95	125-150 125-150 125		EX75SWI	9	EX75HWI	9	EX75XHWI	9
125-150 125-150 125-150	70 80 90	100-125 100-115 100		EX75SWO	10				
102 102 102	95 100 110	100-125 100-125 100		EX95S	11	EX95H	11	EX95XH	11
102 102 102	95 100 110	125-150 125-150 125		EX95SWI	11	EX95HWI	11	EX95XHWI	11
125-150 125-150 125-150	95 100 110	100-125 100-115 100		EX95SWO	12				
95	110 125	100-125 100		EX110S	12				
95	130 145	100-125 100		EX130S	12				
95	150 165	100-125 100		EX150S	12				

What you will need to know from your customer is the cavity width, the inner block size and the overall wall construction.

Why doesn't the Lintel Selection Chart deal with loading

It is not your job to advise on loadings - that is one of the tasks of our Technical Advisory Service.

What do you need to know to supply a Lintel Schedule?

We need drawings - plans, elevations and sections - preferably 1:50scale.

We need wall details - cavity or solid - and dimensions of outer leaf, cavity and inner leaf.

We need floor details - timber or concrete - and the direction of the span. If the floor is concrete, we require the loadings.

And **we need to know the roof layout**.

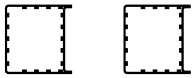
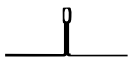
The Lintel Schedule will give you the items, the locations, the opening sizes, the lintel codes/descriptions, the quantities and list prices.

What other technical help can I get?

The **Expamet Technical Advisory Service** is available to stockists and specifiers and provides:

- Lintel schedules from drawings
- Structural calculations for Building Regulations approval
- General advice on the use of lintels in uncommon situations *(e.g. reduced end bearings, point loadings etc)* - use the **'Lintel Enquiry Fax Form'** on page 19.
- Special lintel design

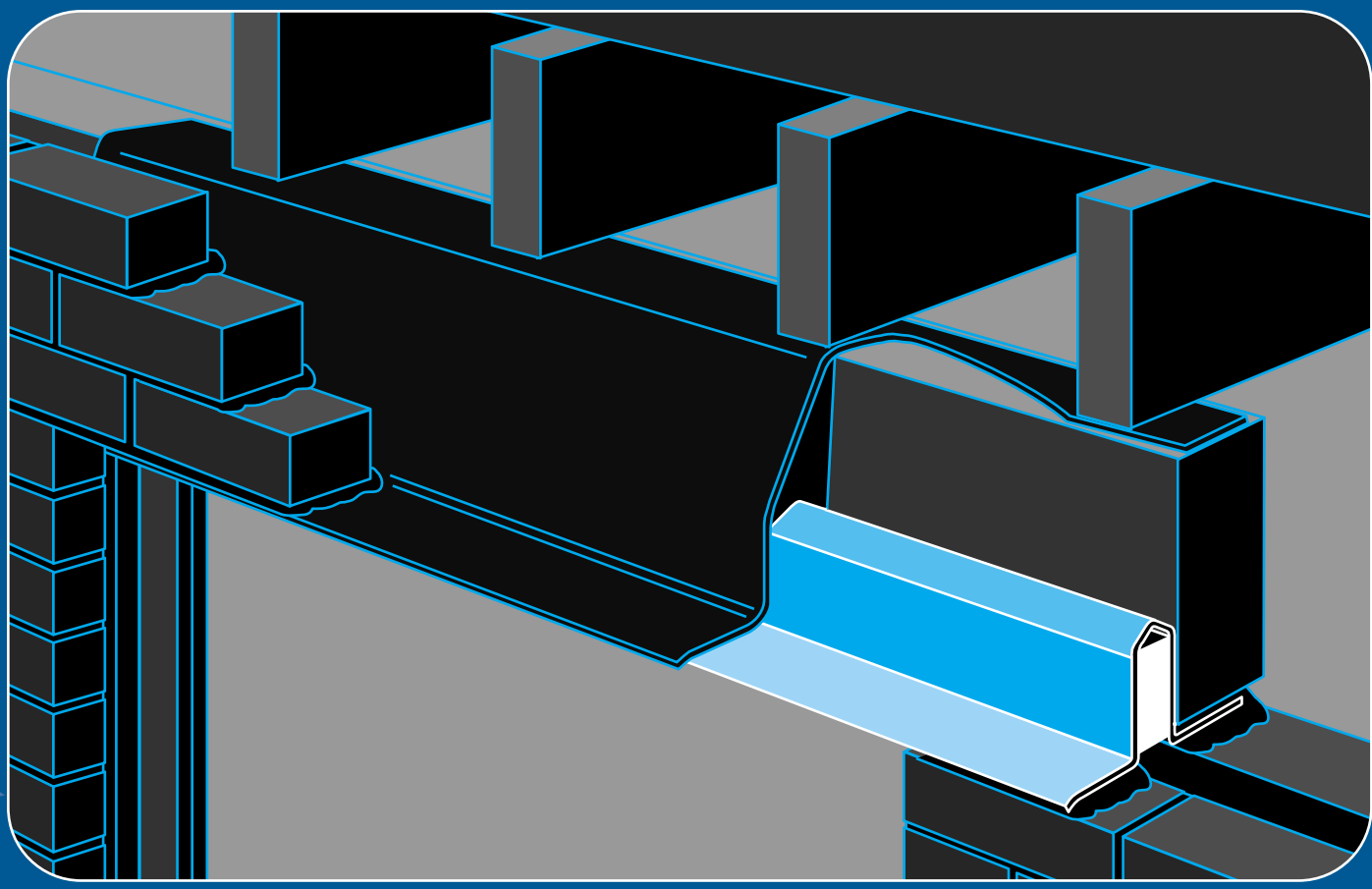
Technical Department Hotline: 01429 866655

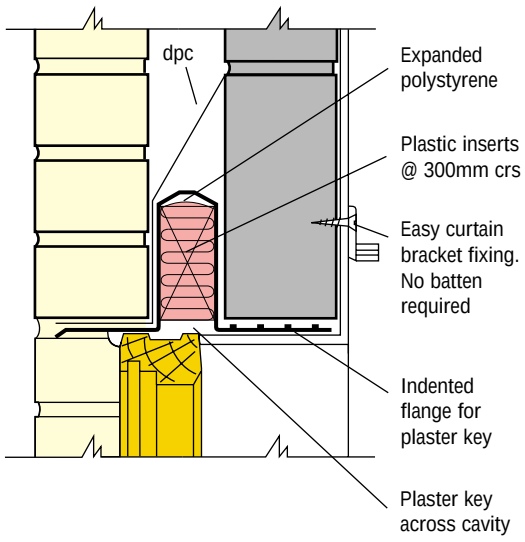
Outside Leaf (mm)	Cavity Width (mm)	Inside Leaf (mm)		Code	Page No.
EAVES LINTEL					
	50-80	100		EX50E	**8**
	50-80	125		EX50EWI	**8**
	70-100	100		EX75E	**10**
TIMBER FRAME					
102	40-55	125-150		EX50TIM	**13**
102	70-90	125-150		EX75TIM	**13**
CONCRETE INNER					
102	50-65			EX50CON	**14**
HEAVY DUTY					
102	50-70	100-125		EXTP50H	**8**
102	70-95	100-125		EXTP75H	**10**
102	95-110	100-125		EXTP95H	**12**
EXTRA HEAVY DUTY					
102	50-70	100-125		EX50RSI	**8**
102	70-90	100-125		EX75RSI	**10**
102	95-110	100-125		EX95RSI	**12**
INTERNAL WALL					
		75		EX75INT or EXB75	**14/15**
		100		EX100INT or EXB100 or EXB100H	**14/15/15**
		215		EXB200 or EXB200H or EXW200T	**15/15/14**
		140-150		EXB140 or B140H	**15/15**
SINGLE WALL					
102				EXW90A or EXW100C	**14/14**
200				EXW200T	**14**
215				EXW200T or EXB200	**14/15**
MISCELLANEOUS					
SPECIAL LINTELS					**16-18**
FAX BACK ENQUIRY FORM					**19**
TECHNICAL INFORMATION					**20-22**
LINTEL ARCH					**23**
LINTEL CLADDING					**23**

*Standard lintels are produced in 150mm increment lengths.

**Stepped versions of EX50S, EX75S and EX95S available as special lintels.

Cavity Wall Lintels





Expamet Cavity Lintels have a 'top hat' profile achieved without welding *(up to and including lengths of 4.20m)* which offers distinct advantages in terms of durability and structural characteristics including:

The maintenance of the integrity of the wall structure and its thermal properties through uniform and continuous bricklaying - the upstand of the lintel sits within the cavity;

Excellent thermal efficiency as a direct result of its design which, with the addition of an expanded polystyrene infill *(standard on all cavity lintels)*, provides a 'U' value through the lintel of significantly less than 0.45 W/m² K;

Reduced maintenance costs through the elimination of cracked plaster due to the differential expansion of dissimilar materials associated with Box section cavity wall lintels.

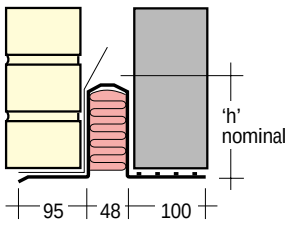
Semi-pierced slots on the inner flange give an excellent key for the plaster finish.

CAVITY WALL LINTELS

A continuous bottom plate added **Note: Max block dimensions 125mm (50mm cavity)**

EX50S

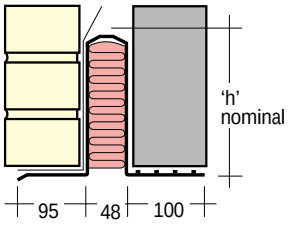
Standard duty loading condition.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700	2850 3000	3150 3600	3750 4200	4350 4800
Height 'h'	60	72	110	135	147	160	185	215	215	219
Thickness 't'	2.5	2.5	2.5	2.5	2.5	2.8	2.8	3.0	3.0	3.0*
Total UDL(kN) Load ratio (1)	12	12	18	22	23	25	30	30	28	26
Total UDL(kN) Load ratio (2)	10	10	16	17	17	19	24	24	24	24

EX50H

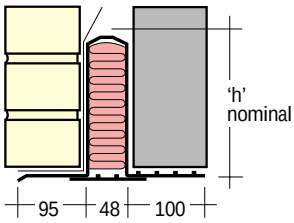
Heavy duty loading condition.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700	2850 3000	3150 3600	3750 4200	
Height 'h'	135	135	137	162	187	187	217	217	217	
Thickness 't'	2.8	2.8	2.8*	2.8*	2.8*	3.0*	3.0*	3.0*	3.0*	
Total UDL(kN) Load ratio (1)	22	30	40	40	40	45	45	40	32	
Total UDL(kN) Load ratio (2)	18	24	30	35	35	40	40	36	30	

EX50XH

Extra heavy duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 2100	2250 2400	2550 2700						
Height 'h'	163	187	217	217						
Thickness 't'	3.0*	3.0*	3.0*	3.0*						
Total UDL(kN) Load ratio (1)	50	50	55	50						
Total UDL(kN) Load ratio (2)	45	45	45	40						

Load Ratio - see Structural Performance on page 20.

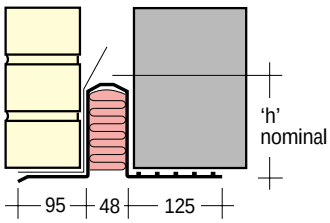
50-70mm CAVITY

WIDE INNER LEAF

A continuous bottom plate added **Note: Max block dimensions 150mm (50mm cavity)**

EX50SWI

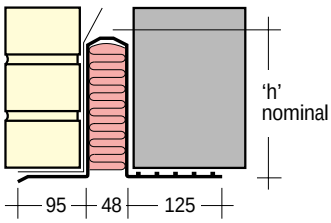
Standard duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 2100	2250 2400	2550 2700	2850 3000	3150 3600	3750 4200		
Height 'h'	98	135	147	172	175	175	205		
Thickness 't'	2.5	2.5	2.8	2.8	2.8*	3.0*	3.0*		
Total UDL(kN) Load ratio (1)	15	22	23	25	30	30	28		
Total UDL(kN) Load ratio (2)	12	17	17	19	24	24	24		

EX50HWI

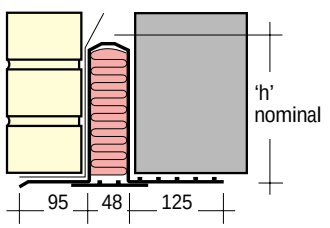
Heavy duty loading condition.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700			
Height 'h'	122	147	150	175	175	205			
Thickness 't'	2.8	2.8	3.0*	2.8*	3.0*	3.0*			
Total UDL(kN) Load ratio (1)	22	30	34	36	38	38			
Total UDL(kN) Load ratio (2)	18	24	28	32	34	34			

EX50XHWI

Extra heavy duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 1800	1950 2400						
Height 'h'	150	175	205						
Thickness 't'	3.0*	3.0*	3.0*						
Total UDL(kN) Load ratio (1)	45	45	50						
Total UDL(kN) Load ratio (2)	40	40	40						

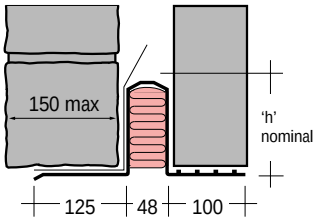
Wider Inner Leaf variants available.

Load Ratio - see Structural Performance on page 20.

WIDE OUTER LEAF

EX50SWO

Standard duty loading condition.



A continuous bottom plate added **Note: Max inner block dimensions 125mm (50mm cavity)**
Max outer block dimensions 150mm (50mm cavity)

Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700	2850 3000	3150 3600	
Height 'h'	79	96	133	120	145	170	172	172	
Thickness 't'	2.5	2.5	2.5	2.8	2.8	2.8	2.8*	3.0*	
Total UDL(kN) Load ratio (1)	14	15	18	22	23	25	30	26	
Total UDL(kN) Load ratio (2)	12	12	16	17	17	19	24	24	

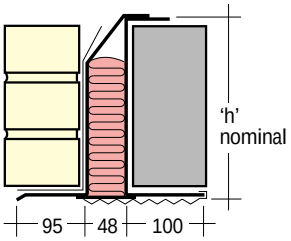
Heavy Duty & Wider Inner Leaf variants available.

Load Ratio - see Structural Performance on page 20.

HEAVY DUTY LINTEL

EXTP50H

Heavy duty loading condition.



Note: Max block dimensions 125mm (50mm cavity)

Manufactured Length 150mm increments	0750 1800	1950 2400	2550 3600	3750 4800	3750 4800				
Height 'h'	153	228	228	228	228				
Thickness 't'	2.5*	2.5*	3.0*	3.0*	3.0*				
Total UDL(kN) Load ratio (2)	36	48	50	38	45				

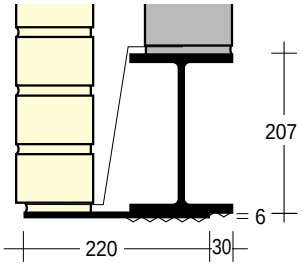
Load Ratio - see Structural Performance on page 20.

EXTRA HEAVY DUTY LINTEL

EX50RSI

For large span cavity wall construction.

Extra heavy duty loading condition.



Note: Max block dimensions 125mm positioned flush with inner face of Universal Beam (50mm cavity)

Manufactured Length 150mm increments	1200 3000	3100 4800	5100	5400	5700	6000	6300	6600	
Height 'h'	213	213	213	213	213	213	213	213	
Thickness 't'									
Total UDL(kN) Load ratio (2)	95	80	70	62	55	50	45	40	

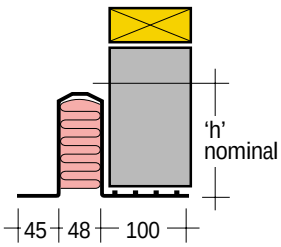
Manufactured from a 203 x 133 x 30kg/m Universal Beam. this lintel has a single coat of primer paint only. It is necessary to apply a final coat of paint (Bitumen or Chlorinated Rubber) prior to installation as paint may be damaged during transportation and handling on siite. To achieve these loading figures, the lintel must be laterally restained and have an inner to outer ratio between 4:1 and 19:1. Also available - similar design with parallel flanged channel. Details on request.

SINGLE WALL LINTELS

EX50E

For use at eaves level.

Composite beam with blockwork.



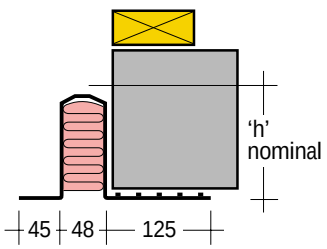
Note: Max block dimensions 125mm (80mm cavity)

Manufactured Length 150mm increments	0750 1500	1650 2100	2250 2700						
Height 'h'	60	85	98						
Thickness 't'	2.5	2.5	3.0						
Total UDL(kN) Load ratio (2)	19	26	26						

EX50EWI

For use at eaves level.

Composite beam with blockwork.



Note: Max block dimensions 150mm (80mm cavity)

Manufactured Length 150mm increments	0750 1500	1650 2100	2250 2700						
Height 'h'	85	110	122						
Thickness 't'	2.5	2.5	3.0						
Total UDL(kN) Load ratio (2)	21	21	26						

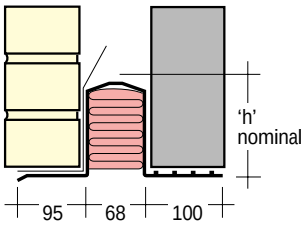
Wider cavity variants available.

CAVITY WALL LINTELS

A continuous bottom plate added **Note: Max block dimensions 125mm (70mm cavity)**

EX75S

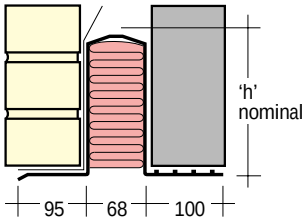
Standard duty loading condition.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 3000	3150 3600	3750 4200	4350 4800
Height 'h'	68	80	130	130	130	180	210	210	213
Thickness 't'	2.5	2.5	2.5	2.5	2.8	2.8	3.0	3.0	3.0*
Total UDL(kN) Load ratio (1)	12	12	17	17	23	30	30	28	26
Total UDL(kN) Load ratio (2)	10	10	14	14	17	24	24	24	24

EX75H

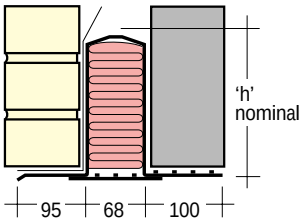
Heavy duty loading condition.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700	2850 3000	3150 3600	3750 4200
Height 'h'	130	130	132	157	182	182	212	212	212
Thickness 't'	2.8	2.8	2.8*	2.8*	2.8*	3.0*	3.0*	3.0*	3.0*
Total UDL(kN) Load ratio (1)	22	30	40	40	40	45	45	40	32
Total UDL(kN) Load ratio (2)	18	24	30	35	35	40	40	36	30

EX75XH

Extra heavy duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 2100	2250 2400	2550 2700					
Height 'h'	158	182	212	212					
Thickness 't'	3.0*	3.0*	3.0*	3.0*					
Total UDL(kN) Load ratio (1)	50	50	55	50					
Total UDL(kN) Load ratio (2)	45	45	45	40					

Load Ratio - see Structural Performance on page 20.

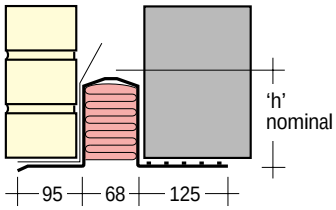
70-95mm CAVITY

WIDE INNER LEAF

A continuous bottom plate added **Note: Max block dimensions 150mm (70mm cavity)**

EX75SWI

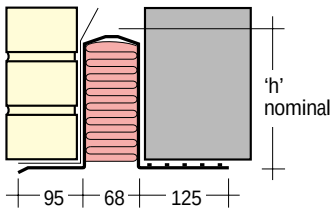
Standard duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 1800	1950 2400	2550 2700	2850 3000	3150 3600	3750 4200		
Height 'h'	94	130	143	168	171	171	201		
Thickness 't'	2.5	2.5	2.8	2.8	2.8*	3.0*	3.0*		
Total UDL(kN) Load ratio (1)	15	18	23	25	30	30	28		
Total UDL(kN) Load ratio (2)	12	16	17	19	24	24	24		

EX75HWI

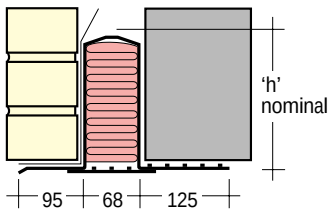
Heavy duty loading condition.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700			
Height 'h'	118	143	145	171	171	201			
Thickness 't'	2.8	3.0	3.0*	2.8*	3.0*	3.0*			
Total UDL(kN) Load ratio (1)	22	30	34	36	38	38			
Total UDL(kN) Load ratio (2)	18	24	28	32	34	34			

EX75XHWI

Extra heavy duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 1800	1950 2400						
Height 'h'	146	171	201						
Thickness 't'	3.0*	3.0*	3.0*						
Total UDL(kN) Load ratio (1)	45	45	50						
Total UDL(kN) Load ratio (2)	40	40	40						

Wider Inner Leaf variants available.

Load Ratio - see Structural Performance on page 20.

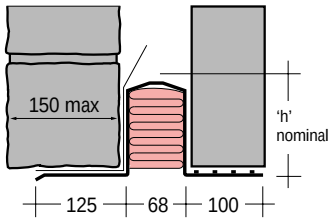
70-95mm CAVITY

WIDE OUTER LEAF

A continuous bottom plate added **Note: Max inner block dimensions 125mm (70mm cavity)**
Max outer block dimensions 150mm (70mm cavity)

EX75SWO

Standard duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 1800	1950 2100	2250 2400	2550 2700	2850 3000	3150 3600		
Height 'h'	92	128	116	141	166	168	168		
Thickness 't'	2.5	2.5	2.8	2.8	2.8	2.8*	3.0*		
Total UDL(kN) Load ratio (1)	15	18	22	23	25	30	26		
Total UDL(kN) Load ratio (2)	12	16	17	17	19	24	24		

Heavy Duty & Wider Inner Leaf variants available.

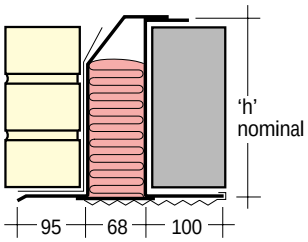
Load Ratio - see Structural Performance on page 20.

HEAVY DUTY LINTEL

Note: Max block dimensions 125mm (70mm cavity)

EXTP75H

Heavy duty loading condition.



Manufactured Length 150mm increments	0750 1800	1950 2400	2550 3600	3750 4800	3750 4800				
Height 'h'	153	228	228	228	228				
Thickness 't'	2.5*	2.5*	3.0*	3.0*	3.0*				
Total UDL(kN) Load ratio (2)	36	48	50	38	45				

Load Ratio - see Structural Performance on page 20.

70-90mm CAVITY

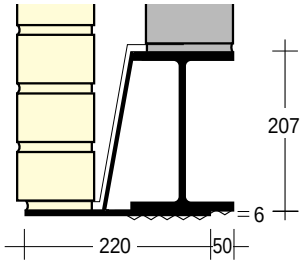
EXTRA HEAVY DUTY LINTEL

Note: Max block dimensions 125mm positioned flush with inner face of Universal Beam (70mm cavity)

EX75RSI

For large span cavity wall construction.

Extra heavy duty loading condition.



Manufactured Length 150mm increments	1200 3000	3100 4800	5100	5400	5700	6000	6300	6600	
Height 'h'	213	213	213	213	213	213	213	213	
Thickness 't'									
Total UDL(kN) Load ratio (2)	95	80	70	62	55	50	45	40	

Manufactured from a 203 x 133 x 30kg/m Universal Beam. this lintel has a single coat of primer paint only. It is necessary to apply a final coat of paint (Bitumen or Chlorinated Rubber) prior to installation as paint may be damaged during transportation and handling on siite. To achieve these loading figures, the lintel must be laterally restained and have an inner to outer ratio between 4:1 and 19:1. Also available - similar design with parallel flanged channel. Details on request.

70-100mm CAVITY

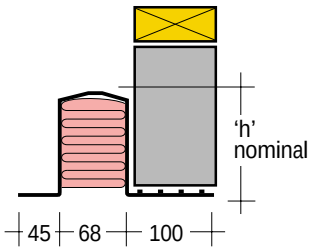
SINGLE WALL LINTEL

Note: Max block dimensions 125mm (80mm cavity)

EX75E

For use at eaves level.

Composite beam with blockwork.



Manufactured Length 150mm increments	0750 2100	2250 2700							
Height 'h'	80	104							
Thickness 't'	2.5	3.0							
Total UDL(kN) Load ratio (2)	25	25							

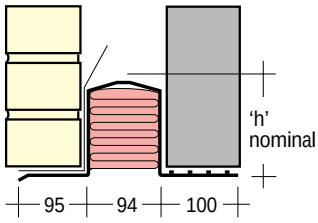
Wider cavity variants available.

CAVITY WALL LINTELS

A continuous bottom plate added **Note: Max block dimensions 125mm (95mm cavity)**

EX95S

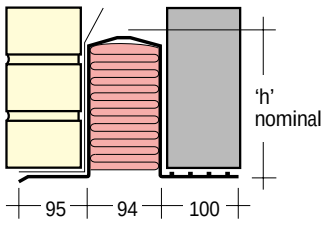
Standard duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 1800	1950 2100	2250 2400	2550 3000	3150 3600	3750 4200	4350 4800	
Height 'h'	95	120	132	145	170	200	203	203	
Thickness 't'	2.5	2.5	2.5	2.8	2.8	3.0	3.0*	3.0*	
Total UDL(kN) Load ratio (1)	12	18	20	23	30	30	28	26	
Total UDL(kN) Load ratio (2)	10	16	15	17	24	24	24	24	

EX95H

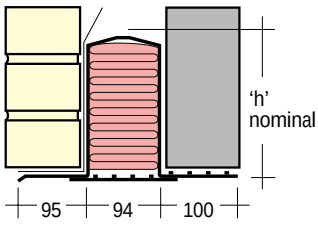
Heavy duty loading condition.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700	2850 3000	3150 3600	3750 4200
Height 'h'	120	120	123	148	173	173	203	203	203
Thickness 't'	2.8	2.8	2.8*	2.8*	2.8*	3.0*	3.0*	3.0*	3.0*
Total UDL(kN) Load ratio (1)	22	30	40	40	40	45	45	40	32
Total UDL(kN) Load ratio (2)	18	24	30	35	35	40	40	36	30

EX95XH

Extra heavy duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 2100	2250 2400	2550 2700					
Height 'h'	148	173	203	203					
Thickness 't'	3.0*	3.0*	3.0*	3.0*					
Total UDL(kN) Load ratio (1)	50	50	55	50					
Total UDL(kN) Load ratio (2)	45	45	45	40					

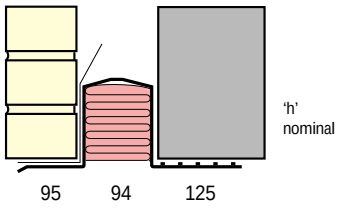
Load Ratio - see Structural Performance on page 20.

WIDE INNER LEAF

A continuous bottom plate added **Note: Max block dimensions 150mm (95mm cavity)**

EX95SWI

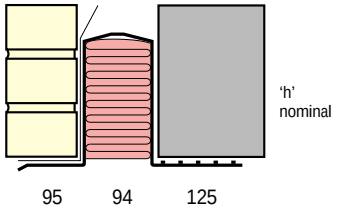
Standard duty loading condition.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700	2850 3600	3750 4200	
Height 'h'	83	108	120	132	157	157	160	190	
Thickness 't'	2.5	2.5	2.5	2.8	2.8	3.0	3.0*	3.0*	
Total UDL(kN) Load ratio (1)	14	15	17	22	23	25	30	28	
Total UDL(kN) Load ratio (2)	12	12	14	17	17	19	24	24	

EX95HWI

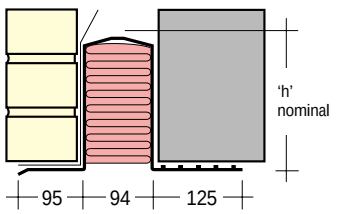
Heavy duty loading condition.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700			
Height 'h'	107	132	135	160	160	190			
Thickness 't'	2.8	3.0	2.8*	2.8*	3.0*	3.0*			
Total UDL(kN) Load ratio (1)	22	30	34	36	38	38			
Total UDL(kN) Load ratio (2)	18	24	28	32	34	34			

EX95XHWI

Extra heavy duty loading condition.



Manufactured Length 150mm increments	0750 1500	1650 1800	1950 2400						
Height 'h'	135	160	190						
Thickness 't'	3.0*	3.0*	3.0*						
Total UDL(kN) Load ratio (1)	45	45	45						
Total UDL(kN) Load ratio (2)	40	40	40						

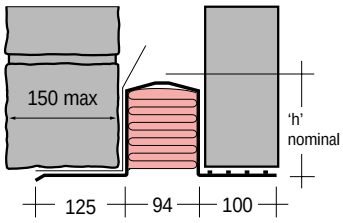
Wider Inner Leaf variants available.

Load Ratio - see Structural Performance on page 20.

WIDE OUTER LEAF

EX95SWO

Standard duty loading condition.



A continuous bottom plate added **Note: Max inner block dimensions 125mm (95mm cavity)**
Max outer block dimensions 150mm (95mm cavity)

Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800	1950 2100	2250 2400	2550 2700	2850 3600		
Height 'h'	81	106	118	130	155	155	157		
Thickness 't'	2.5	2.5	2.5	2.8	2.8	3.0	3.0*		
Total UDL(kN) Load ratio (1)	14	15	18	22	23	25	26		
Total UDL(kN) Load ratio (2)	12	12	16	17	17	19	24		

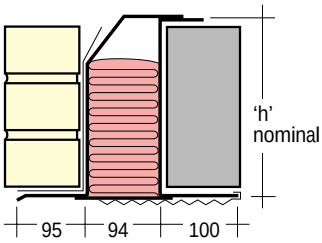
Heavy Duty & Wider Inner Leaf variants available.

Load Ratio - see Structural Performance on page 20.

HEAVY DUTY LINTEL

EXTP95H

Heavy duty loading condition.



Note: Max block dimensions 125mm (95mm cavity)

Manufactured Length 150mm increments	0750 1800	1950 2400	2550 3600	3750 4800	3750 4800				
Height 'h'	153	228	228	228	228				
Thickness 't'	2.5*	2.5*	3.0*	3.0*	3.0*				
Total UDL(kN) Load ratio (2)	36	48	50	38	45				

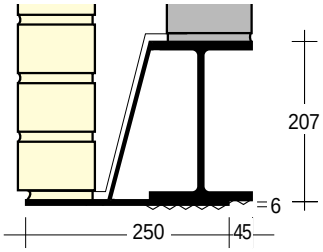
Load Ratio - see Structural Performance on page 20.

EXTRA HEAVY DUTY LINTEL

EX95RSI

For large span cavity wall construction.

Extra heavy duty loading condition.



Note: Max block dimensions 125mm positioned flush with inner face of Universal Beam (95mm cavity)

Manufactured Length 150mm increments	1200 3000	3100 4800	5100	5400	5700	6000	6300	6600	
Height 'h'	213	213	213	213	213	213	213	213	
Total UDL(kN) Load ratio (2)	95	83	75	65	58	53	47	43	

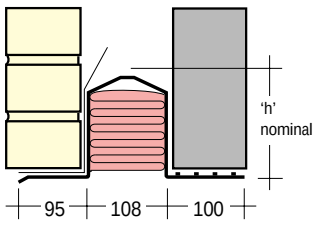
Manufactured from a 203 x 133 x 30kg/m Universal Beam. this lintel has a single coat of primer paint only. It is necessary to apply a final coat of paint (Bitumen or Chlorinated Rubber) prior to installation as paint may be damaged during transportation and handling on siite. To achieve these loading figures, the lintel must be laterally restained and have an inner to outer ratio between 4:1 and 19:1. Also available - similar design with parallel flanged channel. Details on request.

CAVITY WALL LINTELS

EX110S

110-125mm cavity

Standard duty loading condition.



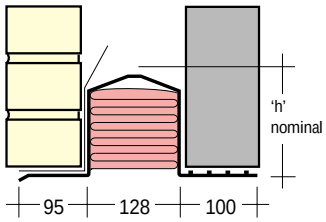
A continuous bottom plate added **Note: Max block dimensions 125mm (110mm cavity)**

Manufactured Length 150mm increments	0600 1500	1650 1800	1950 2100	2550 3000	3150 3600				
Height 'h'	93	130	167	170	200				
Thickness 't'	2.5	2.5	2.8	3.0*	3.0*				
Total UDL(kN) Load ratio (1)	12	20	26	30	30				
Total UDL(kN) Load ratio (2)	10	17	20	25	25				

EX130S

130-145mm cavity

Standard duty loading condition.



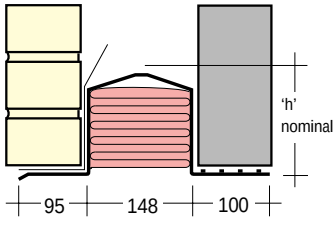
A continuous bottom plate added **Note: Max block dimensions 125mm (130mm cavity)**

Manufactured Length 150mm increments	0600 1800	1950 2400	2550 3000						
Height 'h'	160	190	195						
Thickness 't'	3.0	3.0	3.0*						
Total UDL(kN) Load ratio (1)	20	26	26						
Total UDL(kN) Load ratio (2)	17	20	20						

EX150S

150-165mm cavity

Standard duty loading condition.



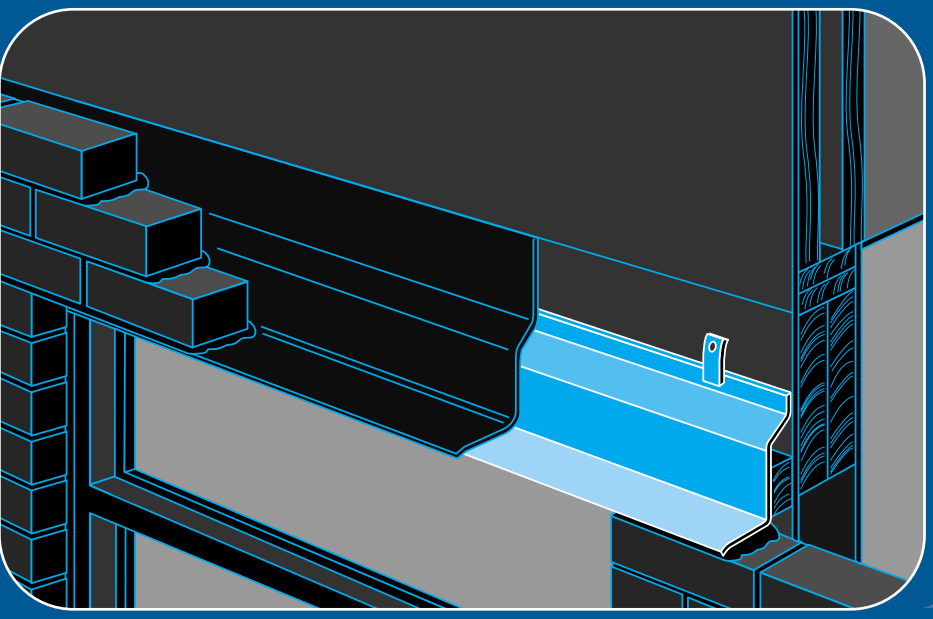
A continuous bottom plate added **Note: Max block dimensions 125mm (150mm cavity)**

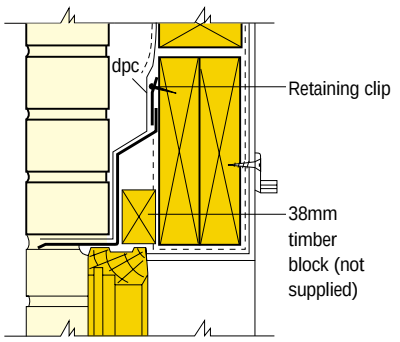
Manufactured Length 150mm increments	0600 1800	1950 2400	2550 3000						
Height 'h'	155	185	190						
Thickness 't'	3.0	3.0	3.0*						
Total UDL(kN) Load ratio (1)	20	26	26						
Total UDL(kN) Load ratio (2)	17	20	20						

Heavy Duty & Wider Inner Leaf variants available.

Load Ratio - see Structural Performance on page 20.

Timber Frame Lintels





Designed for use in timber frame construction, providing support to the outer leaf to brickwork over openings.

To achieve the loading figures shown, the Timber Frame lintel must be secured with restraining clips and a block/batten (not supplied) must be used to prevent lateral deflection (twist) during the building stage.

A single block/batten 300mm long at mid span will be sufficient. Restraining clips should be fixed with 3.3 x 50mm galvanised nails at no more than 500mm centres each side of mid span.

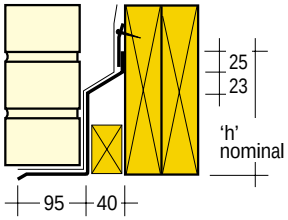
Clips should be positioned with their vertical centres at the top of the lintel to allow for lintel movement and shrinkage of timber frame.

TIMBER FRAME LINTELS

40-90mm CAVITY

EX50TIM
40-55mm cavity

Timber frame construction.

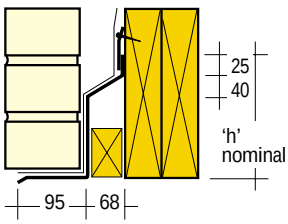


Manufactured Length 150mm increments	0750 1200	1350 1800	1950 2400	2550 3600	3750 4800				
Height 'h'	110	110	135	175	250				
Thickness 't'	2.0	2.5	2.5	2.8	3.0				
Total UDL(kN) Load ratio (2)	4	5	5	9	12				

Heavy Duty, Wider or narrower cavity lintels available but not stocked. Information on request.

EX75TIM
70-90mm cavity

Timber frame construction.



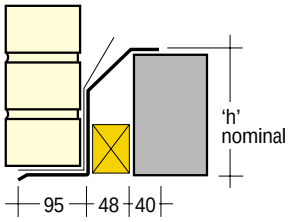
Manufactured Length 150mm increments	0600 1800	1950 2400	2250 3600	3750 4800					
Height 'h'	165	165	240	315					
Thickness 't'	2.0	2.5	3.0	3.0					
Total UDL(kN) Load ratio (2)	9	12	12	12					

Heavy Duty, Wider or narrower cavity lintels available but not stocked. Information on request.

CONCRETE INNER LINTEL

EX50CON

For use with concrete lintels



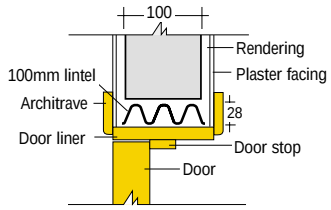
Note: When specifying check height dimensions

Manufactured Length 150mm increments	0750 1800	1950 2400	2550 4800						
Height 'h'	150	225	225						
Thickness 't'	2.5	2.5	3.0						
Total UDL(kN) Load ratio (2)	6	12	14						

Wider or narrower cavity lintels available but not stocked. Information on request.

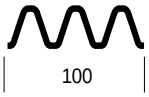
INTERNAL LINTELS

EX75INT



Manufactured Length 150mm increments	0900	1050	1100	1200			
Maximum Opening Span	700	850	900	1000			
Width mm	66	66	66	66			
Safe Working Load with 152mm coursing	5	5	5	5			
Safe Working Load with 229mm coursing	7	7	7	7			

EX100INT



Manufactured Length 150mm increments	0900	1050	1100	1200			
Maximum Opening Span	700	850	900	1000			
Width mm	100	100	100	100			
Safe Working Load with 152mm coursing	5	5	5	5			
Safe Working Load with 229mm coursing	7	7	7	7			

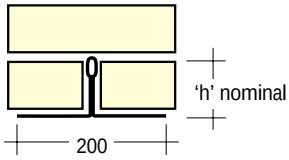
When a minimum height of 152mm of brick/blockwork with well-filled joints of cement mortar is built over the lintel, the construction will be load-bearing for normal domestic building purposes after curing. The loading capacity of the lintel can be increased by increasing the height of the walling built across it.

Note: These lintels must be laterally restrained during construction

EXW200T

For use with solid brick or block wall construction.

Light duty loading condition.



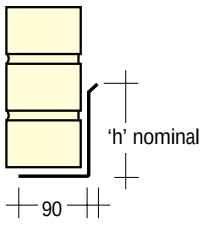
Manufactured Length 150mm increments	0750 1500	1650 1800	1950 2700						
Height 'h'	55	55	100						
Thickness 't'	2.5	3.0	3.0						
Total UDL(kN)	6	6	10						

Heavy duty wider masonry variants available.

EXW90A

For use with single 102mm brickwork wall construction.

Light duty loading condition.

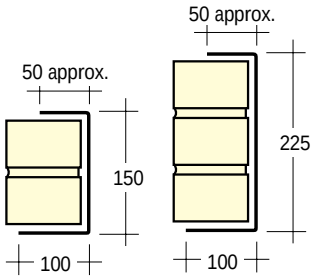


Manufactured Length 150mm increments	0750 1200	1350 1800	1950 2700						
Height 'h'	60	110	210						
Thickness 't'	3.0	3.0	3.0						
Total UDL(kN)	4	8	10						

Heavy duty wider masonry variants available.

EXW100C

For use with single leaf face brick or block wall.



Manufactured Length 150mm increments	0750 1800	1950 2400	2550 3000						
Height 'h'	150	225	225						
Thickness 't'	2.5	2.5	3.0						
Total UDL(kN)	16	20	22						

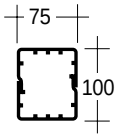
Heavy duty wider masonry variants available.

To achieve loading figures indicated, lintel must be built-in with brickwork/blockwork as shown. In addition, it must be suitably restrained/propped during construction.

BOX LINTELS - STANDARD

EXB75
75mm block

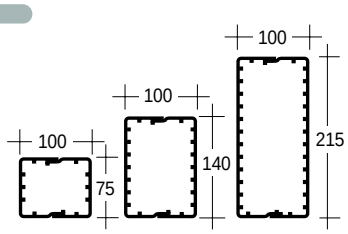
For internal openings.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 1800						
Height 'h'	100	100	100						
Thickness 't'	1.2	1.6	1.6						
Total allowable UDL(kN)	12	15	10						

EXB100
100mm block

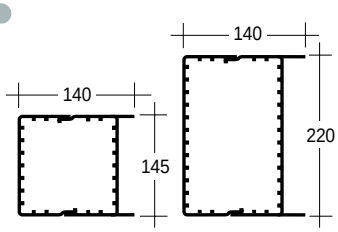
For internal openings, eaves or tile hanging.



Manufactured Length 150mm increments	0750 1200	1350 1500	1650 2100	2250 2400	2550 2700	2850 3600	3750 4200	4350 4800	
Height 'h'	75	75	140	140	140	215	215	215	
Thickness 't'	1.2	1.6	2.0	2.0	2.0	2.5	2.5	2.5	
Total allowable UDL(kN)	12	15	30	25	20	30	25	20	

EXB140
140-150mm block

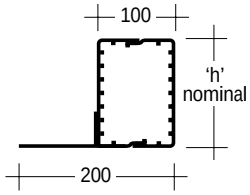
For internal openings, eaves or tile hanging.



Manufactured Length 150mm increments	0750 1500	1650 2100	2250 2400	2550 2700	2850 3600	3750 4200	4350 4800		
Height 'h'	145	145	145	145	220	220	220		
Thickness 't'	1.6	2.0	2.0	2.0	2.5	2.5	2.5		
Total allowable UDL(kN)	15	30	25	20	35	30	25		

EXB200
215mm block

For internal openings, eaves or tile hanging.



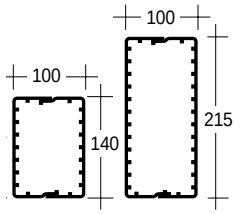
Manufactured Length 150mm increments	0750 1200	1350 1500	1650 2100	2250 2400	2550 2700	2850 3600	3750 4200	4350 4800	
Height 'h'	75	75	140	140	140	215	215	215	
Thickness 't'	1.2	1.6	2.0	2.0	2.0	2.5	2.5	2.5	
Total allowable UDL(kN)	12	15	30	25	20	30	25	20	

Care should be taken to avoid shock loading when used with concrete floor or other heavy units. Insulation available at extra cost.

BOX LINTELS - HEAVY DUTY

EXB100H
100mm block

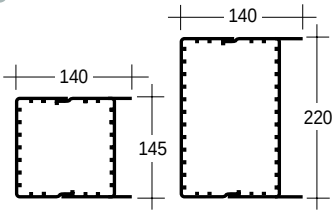
For internal openings, eaves or tile hanging.



Manufactured Length 150mm increments	0750 1200	1350 1800	1950 2400	2550 2700					
Height 'h'	140	140	220	220					
Thickness 't'	2.5	2.5	2.5	2.5					
Total allowable UDL(kN)	50	45	45	40					

EXB140H
140-150mm block

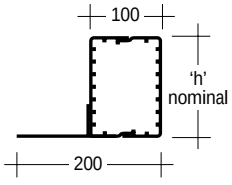
For internal openings, eaves or tile hanging.



Manufactured Length 150mm increments	0750 1200	1350 1800	1950 2400	2550 2700					
Height 'h'	145	145	220	220					
Thickness 't'	2.5	2.5	2.5	2.5					
Total allowable UDL(kN)	50	50	50	45					

EXB200H
215mm block

For internal openings, eaves or tile hanging.



Manufactured Length 150mm increments	0750 1200	1350 1800	1950 2400	2550 2700					
Height 'h'	140	140	215	215					
Thickness 't'	2.5	2.5	2.5	2.5					
Total allowable UDL(kN)	40	45	45	40					

Care should be taken to avoid shock loading when used with concrete floor or other heavy units. Insulation available at extra cost.

Special Lintel Enquiry Fax Back

Please complete and fax back the form overleaf...

Expamet's comprehensive range of standard lintels covers all applications in conventional building constructions. When a building requires more unconventional support solutions, Expamet has the expertise to design and manufacture special lintels that suit every shape and size. These special lintels - some of which feature below - can include radius, natural arch, gothic arch, corner, apex, cant brick, 'I' beam, 200mm-wide inner leaf, feature plate and wider cavity.

Expamet's Special Lintel Service is the product of a wide experience in successfully meeting the needs of architects of both domestic and commercial buildings. It embraces every aspect of lintel design and supply, from calculation of shape, size and loading to co-ordination with construction scheduling and consideration of budgetary requirement. Expamet's ultimate aim is to provide the most cost-effective design solution to special lintel problems.

In order to best utilise this free service, please ensure that all relevant details are provided i.e. wall construction (outer leaf, cavity, inner leaf), clear spans, arch rise, radius and any other factor which may affect the special lintel design and costing.

When loading figures are not available, then please provide a full set of drawings including:

(a) plans
(b) elevations
(c) sections
(d) wall construction
(e) floor construction and direction

This information will enable our design engineers to calculate the relevant loadings.

Information can be sent directly to the Technical Department by email: technical@expamet.net or **fax on 01429 851873**.

FAX BACK

SPECIAL ARCH LINTEL ENQUIRY FORM

Please complete all details and submit to Technical on 01429 851873. If you require further information please telephone: 01429 866655.

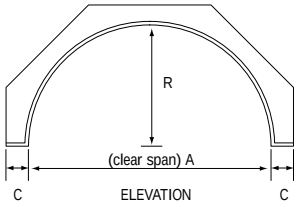
From: Name

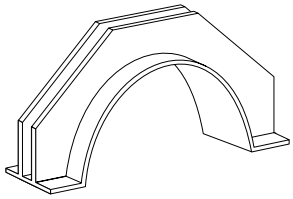
Company

Tel: Fax:

Email Job reference

RADIUS ARCH LINTEL



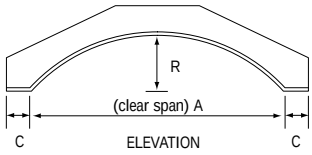


Lintel Dimensions		
Clear span	A	mm
Rise	R	mm
End bearing	C	mm

Wall Construction	
Outer leaf	mm
Cavity width	mm
Inner leaf	mm

Plaster Key Requirements *(please tick)*	
Inside only	
Both sides	
None	

NATURAL ARCH LINTEL

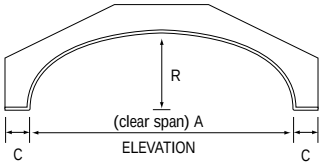


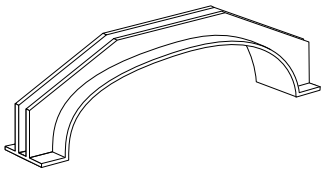
Lintel Dimensions		
Clear span	A	mm
Rise	R	mm
End bearing	C	mm

Wall Construction	
Outer leaf	mm
Cavity width	mm
Inner leaf	mm

Plaster Key Requirements *(please tick)*	
Inside only	
Both sides	
None	

ELLIPTICAL ARCH LINTEL



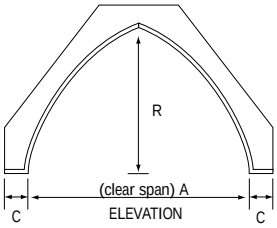


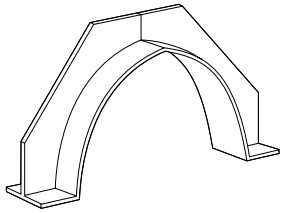
Lintel Dimensions		
Clear span	A	mm
Rise	R	mm
End bearing	C	mm

Wall Construction	
Outer leaf	mm
Cavity width	mm
Inner leaf	mm

Plaster Key Requirements *(please tick)*	
Inside only	
Both sides	
None	

GOTHIC ARCH LINTEL





Lintel Dimensions		
Clear span	A	mm
Rise	R	mm
End bearing	C	mm

Wall Construction	
Outer leaf	mm
Cavity width	mm
Inner leaf	mm

Plaster Key Requirements *(please tick)*	
Inside only	
Both sides	
None	

Special Lintels continued over page

Enquiries for Special Lintels should be faxed to: 01429 851873

FAX BACK

SPECIAL MITRED LINTEL ENQUIRY FORM

Please complete all details and submit to Technical on 01429 851873. If you require further information please telephone: 01429 866655.

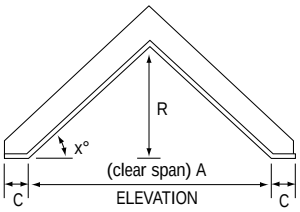
From: Name

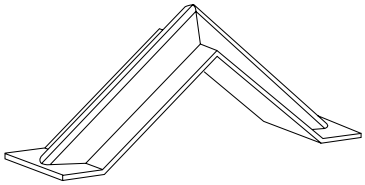
Company

Tel: Fax:

Email Job reference

APEX LINTEL



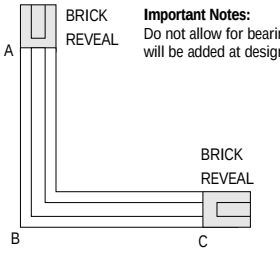


Lintel Dimensions		
Clear span	A	mm
Rise	R	mm
End bearing	C	mm

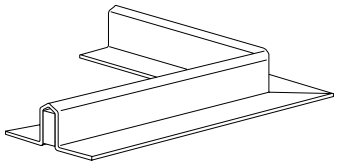
Wall Construction	
Outer leaf	mm
Cavity width	mm
Inner leaf	mm

Plaster Key Requirements *(please tick)*	
Inside only	
Both sides	
None	

CORNER LINTEL



Important Notes:
Do not allow for bearing, this will be added at design stage.



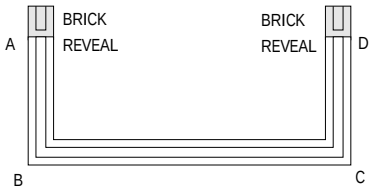
Dimensions Required	
A-B =	mm
B-C =	mm
A-C =	mm

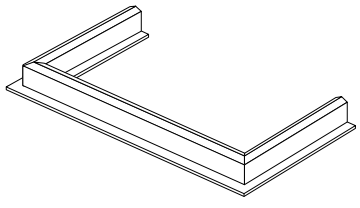
Wall Construction	
Outer leaf	mm
Cavity width	mm
Inner leaf	mm

Plaster Key Requirements *(please tick)*	
Inside only	
Both sides	
None	

BAY LINTEL

Important Notes:
Do not allow for bearing, this will be added at design stage.





Dimensions Required	
A-B =	mm
B-C =	mm
C-D =	mm

Wall Construction	
Outer leaf	mm
Cavity width	mm
Inner leaf	mm

Plaster Key Requirements *(please tick)*	
Inside only	
Both sides	
None	

Enquiries for Special Lintels should be faxed to: 01429 851873

LINTEL ENQUIRY

FAX**FORM**

Please use this form to obtain technical advice on the selection and use of Expamet steel lintels. Photocopy the blank form then fill in the details on the photocopy and fax it to the Expamet Technical Department.

Name _____

Position _____

Company _____

Branch address _____

_____

_____

Tel _____

Fax _____

Email _____

Job Reference _____

Wall Details:

Is the wall cavity or solid?

_____

Thickness of outer leaf

_____

Width of cavity

_____

Thickness of inner leaf

_____

Floor Details:

Is the floor timber or concrete?

_____

What direction is the span?

_____

Floor loadings if concrete

_____

Roof Layout:

_____

_____

Are you supplying drawings with this information, if so please indicate which:

Plans ☐ Elevations ☐ Sections ☐

Comments on the building design and/or lintel requirements

_____

_____

_____

_____

FAX TO THE **EXPAMET TECHNICAL DEPARTMENT** ON:

01429 851873

TECHNICAL INFORMATION

STRUCTURAL PERFORMANCE

The loading tables in this brochure are the result of testing at the group's premises under the supervision and direction of the British Board of Agrément.

All tests were carried out in accordance with BS 5977 Part 2 1983 and relate to the strength and torsional stiffness of lintels to sustain total uniformly distributed loads. Higher loads can be achieved by using the bending moments as shown in the loading tables providing there is composite assistance from the surrounding masonry. To enable composite assistance to be taken into account, the masonry should be of good quality (in accordance with BS 5628) and should be deemed to arch in accordance with BS 5977 Part 1 1981, or the masonry adjacent to the opening in question should be of sufficient stability to withstand the lateral thrust to be imposed on it.

The loading tables shown for the EX50E, EXTP and EX100C lintels are the results of testing in accordance with BS 5977 Part 2 1983, taking into account composite assistance from the surrounding masonry, this masonry should be of good quality (in accordance with BS 5628).

A lintel should not exceed a maximum vertical or horizontal deflection of L/325 x the effective span, when subject to the safe working load.

Note:

Load ratio 1 - applies to loads with an inner to outer leaf ratio of between 1 :1 and 3 :1. This ratio is normally applicable to lintels that support:

a. masonry
b. masonry and timber floors

Load ratio 2 - applies to loads with an inner to outer leaf ratio of between 4 :1 and 19:1. This ratio is normally applicable to lintels supporting:

a. constructions with concrete floors
b. eaves applications

FIRE TEST

The Top Hat profile has been subjected to four fire tests by:

a. The Fire Research Station, Boreham Wood (6502) 1975.
b. The Warrington Fire Research Station (18653) 1976.
c. The Warrington Fire Research Station (67726) 1996.
d. The Warrington Fire Research Station (105978) 1999.

In cases **a** + **b** one hour and **c** + **d** two hours fire rating was achieved with the load successfully supported 48 hours later. Further details available on request.

DURABILITY

The service life of lintels will be equal to the life expectancy of the building when installed with a flexible DPC and within the humidity and condensation conditions normally experienced in habitable buildings.

Lintels conform to the requirements of BS 5977 Part 2 1983 and BS EN 845.2 for corrosion protection, workmanship and materials.

Expamet lintels are rated by the Housing Association Property Mutual as satisfying the '35 years to first maintenance' durability rating, laid down in the 'HAPM Component Life Manual'.

Galvanised lintels - lintels are fabricated from galvanised steel to BS EN 10142 1991 Specification for continually hot dip zinc coated low carbon steel sheet and strip for cold forming: Technical advisory conditions, grade DX51D + Z600, (ie a coating type Z600 giving a minimum coating weight (triple spot test) of 600g/m^2; including both sides).

Stainless steel - with the exception of the EXRSC and internal type lintels, all Expamet lintels can be manufactured from stainless steel.

Stainless steel lintels and expanded metal lathing are formed from Austenitic Chromium Nickel Steel to BS EN 10088-2 1.4301 (304S15) and require no additional corrosion treatment. Higher grades of stainless steel can be supplied on request - BS EN 10088-2 1.4401 (316S31).

INSTALLATION

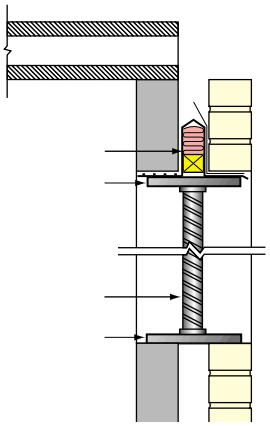
For the lintels to perform to the quoted loading figures and to meet the durability expectations included in this brochure, the following information MUST be adhered to:

1. Lintels damaged in transit should not be used.
2. Check the correct lintel is being installed.
3. All bearing areas should be prepared using full bricks/blocks or padstones.
4. Lintels should be installed with a minimum 150mm end bearing at both ends, be fully bedded on bricklaying

mortar and levelled both longitudinally and horizontally. When limited end bearings are unavoidable, check with Expamet technical office for suitability.

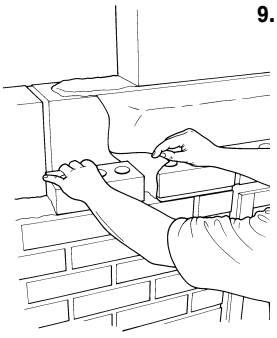
5. Open back lintels should be filled with masonry in accordance with BS 5977 and a full block built in through the end bearing and allowed to cure before continuing building.

6. The inner and outer leaves supported by the lintel should be raised together to avoid excessive eccentricity of loading. Masonry above lintels should be allowed to cure before applying floor or roof loads, if this is not achievable, temporary support in the form of props should be used.



7. When installing concrete floor units or other heavy components, care should be taken to avoid shock loading. Temporary support in the form of props is advisable if there is a limited amount of masonry to the outer leaf. Pre-cast floor units should be laid on a mortar bed to avoid load concentrations at high points in the masonry. Floor units should not be dragged into position.

8. Point loads should not be applied directly to lintel flanges. Lintels should have a minimum of 150mm masonry between the flange and the application level of any form of loading.



9. In accordance with BS 5628 and NHBC requirements, all external wall lintels MUST be installed with a flexible damp proof course (such as TIMLOC's System 9000 polymeric DPC) with the exception of those adequately protected by an eaves overhang or similar form of protection. Stop ends should be provided as specified by BS 5628 Part 3 1985 and the NHBC to avoid moisture entering the cavity near the reveals. Proprietary stop ends (such as those manufactured by TIMLOC) should be used or alternatively the DPC should extend to the edge of the front toe and 50 - 150mm beyond the end of the lintel (depending on coursing) to allow formation of an integral stop end at a suitable perp joint. Weepholes should be used in the external masonry leaf to drain moisture away from the cavity. A minimum of 2 weepholes should be provided for each lintel, generally at 450mm centres. Weepholes can be formed with proprietary weep vents (as manufactured by TIMLOC) or by leaving perp joints open.

10. Masonry should not overhang any flange by more than 25mm.

11. The lintel toe must project beyond the window/door frame and it is recommended that a flexible sealing compound is used between the underside of the lintel flange and the frame to avoid moisture penetration.

12. When the underside of a lintel is exposed, its appearance can be enhanced by the addition of lintel soffit cladding, supplied in white and brown, or by the application of a good quality etch primer and paint after installation.

TECHNICAL ADVISORY SERVICE

To help ensure optimum performance and economy from lintel specifications, Expamet provide an expert advisory service, the service includes:

1. Preparation of lintel schedules from drawings supplied. These drawings should include the following information if future revisions to the specifications are be avoided:
   a. Plans including dimensions (1:50 scale preferable)
   b. Elevations (1:50 or 1:100 scale)
   c. Sections (1:50 scale preferable)
   d. Floor joist layouts or PC concrete floor layouts and loadings (1:50 scale preferable)
   e. Roof layout, showing positions of girder trusses etc. (1:50 scale preferable)
   f. Any other relevant information, such as steelwork layouts etc.

2. Provision of structural calculations for Building Regulation approval. We reserve the right to supply these only in reply to a written request from a Building Control Authority or upon the receipt of an order/letter of intent.

3. Advice on the use of lintels in uncommon situations such as reduced end bearings, point loads and the like.

4. Design and detailing of special lintels, see special lintel page 16.

Technical information continued over page

TERMINOLOGY USED IN TABLES

Total allowable UDL - This is the safe uniformly distributed load and indicates the total design load spread evenly along the length of the lintel including an approximate safety factor.

QUALITY ASSURANCE

British and European Standards. Expamet lintels are designed to meet all relevant standards.

- For manufacture: BS EN 845.2 : Lintels and walls BS 5977 Part 2 pre-fabricated lintels
- For galvanised steel: BS EN 10142 1991 Specification for continuously hot dip zinc coated low carbon steel sheet and strip
- For stainless steel: BS EN 10088-2 1.4301 (304S15) cold rolled stainless alloys

Agrément Certificate No 96/3302:

The whole of the Expamet range of lintels has been assessed by the BBA, Certificate No. 96/3302. Structural tests and calculations have been carried out on selected lintels for the cavity lintel range and variations, eaves lintel, two piece lintel, rolled steel channel lintel, timber frame, concrete inner leaf lintel, single wall lintels, internal lintels and box lintels.

Quality Control

Manufacturing facilities and quality control systems at Cwmbran have been successfully assessed by the British Standards quality inspectorate and the company has been awarded a Quality Assurance certificate to BS EN ISO 9002.

FASTRACK DATABASE FOR CAD USERS

The Expamet Fastrack Database allows architects and specifiers using computer aided design instant access to Expamet steel lintel details to produce complete and accurate drawings quickly and easily.

Supplied on CD-ROM, the Fastrack Database is available in AutoCAD and DXF format. Specifiers can obtain free copies directly from Expamet's Technical Services Department 01429 866655.

HEALTH AND SAFETY

Hazard Identification

- There may be a risk of cuts from sharp edges or projections.
- Structural products must be installed in accordance with their specific instructions to prevent the risk of failure.

Handling, Storage & Disposal

- Handling of materials must comply with the Manual Handling Operation Regulations 1992.
- Protective gloves should be worn when handling or cutting material to prevent injury from sharp edges.
- Some products may have a film of mineral cutting fluid after manufacture, therefore carry out personal hygiene including proper washing of hands after contact.
- Where structural products are to be removed from an existing installation, care must be taken to ensure that the procedure followed does not compromise the loading/ installation restrictions applicable to the products.
- No special disposal requirements, subject to local restrictions.

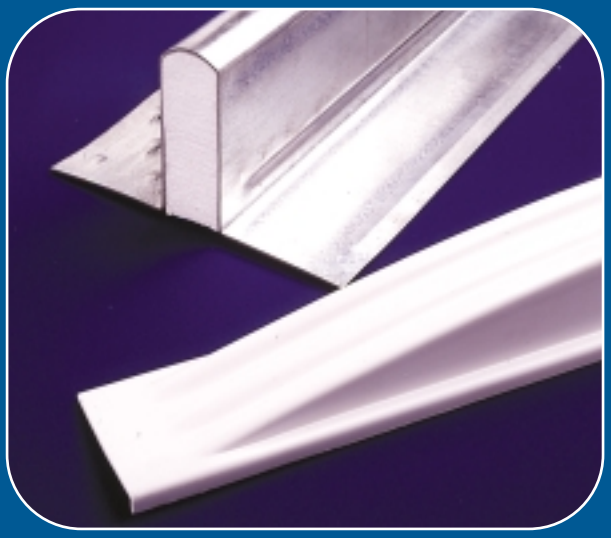
COSHH

We are not aware of any risk to the person, arising from chemicals or any other substances present on or in our products.

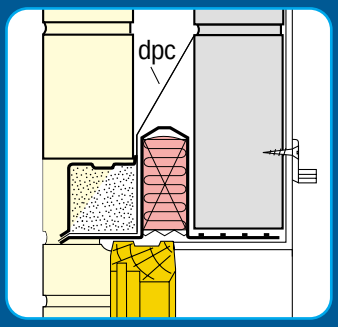
Part L Compliance

Following numerical analysis, the British Board of Agrément has concluded that Expamet's steel lintels with continuous base plates do comply with the cold bridging requirements of Part L of the Building Regulations.

Universal Lintel Arch



Opening Sizes	Nominal Arch Span	Arch Rise	Expamet Ref.
450-500	475	75	EXLA 475
600-650	625	75	EXLA 625
660-710	685	75	EXLA 685
900-950	925	75	EXLA 925
1000-1050	1025	75	EXLA 1025
1060-1100	1085	75	EXLA 1085
1200-1250	1225	75	EXLA 1225
1300-1350	1325	75	EXLA 1325
1460-1510	1485	75	EXLA 1485
1600-1650	1625	75	EXLA 1625
1675-1725	1700	75	EXLA 1700
1760-1810	1785	75	EXLA 1785
1890-1940	1916	150	EXLA 1916
2010-2060	2035	150	EXLA 2035
2090-2140	2115	150	EXLA 2115
2250-2300	2275	150	EXLA 2275
2300-2350	2325	150	EXLA 2325
2400-2450	2425	150	EXLA 2425
2505-2555	2530	150	EXLA 2530
2700-2750	2725	150	EXLA 2725



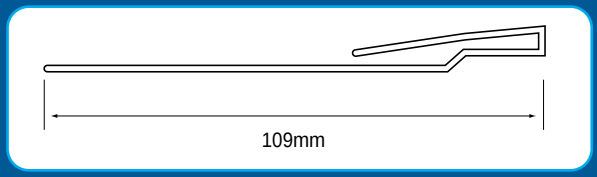
When low rise arches are required in brickwork above openings, the Expamet Universal Lintel Arch provides the ideal former for the bricklayer. The Universal Lintel Arch is vacuum-formed from white pigmented, external weathering quality, impact resistant polystyrene.

Suitable for use in cavity walls and with timber frame construction, the unit is designed to sit on any steel lintel with an outer flange of 90mm to 95mm. The design provides an arch rise of 75mm for arch spans from 475mm to 1785mm, and a rise of 150mm for arch spans from 1916mm to 2725mm.

Maintenance Instruction

For routine maintenance Lintel Arches should be painted with conventional water or oil based paints.

Lintel Cladding



Manufactured from rigid PVC to match UPVC window frames, the Expamet lintel soffit cladding is designed to clip over the front flange of the external wall lintel to provide an aesthetically pleasing appearance to the exposed outer flange.

Supplied in white (Type SCW) and brown (Type SCB), soffit cladding is available in lengths to meet all standard openings, for example a 1500mm length is available to fit a structural opening width of 1200mm. The cladding simply clips into place - no special tools are required.

Note: When soffit cladding is used, external wall lintels must be installed with a flexible damp proof course (DPC) which must project beyond the front face of the cladding.

EXPAMET
BUILDING PRODUCTS

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