

THE EASY ARCH

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EASYARCH

Introduction

Ibstock have been manufacturing the Easy Arch for many years and it is another example of the Company's continuing policy of product development and brickwork design innovation. It was created primarily for the housing market which is continually influenced by the requirement for individuality and character of the finished dwelling. Simplicity of construction, versatility in detailing and the ability to accommodate any opening size make the Easy Arch equally attractive for commercial developments. Elevations can be enhanced and added value achieved on a modest budget using standard extruded and moulded arch bricks and/or individually designed key bricks.

Standard units, 215mm high with a 75° skew back, are stock items at some Ibstock factories in selected brick types. Arch bricks up to 327mm high, skew backs from 60° to 90° and profiled bricks up to 150mm deep are manufactured to order.

Benefits for the Designer

- Simple traditional detailing.
- Flexibility to accommodate any opening width.
- A range of standard voussoirs, key bricks, and feature bricks to individual designs.
- Commemorative plaques and dates can be incorporated into the key bricks, or end springer blocks.
- Modelling effects can easily be achieved. Non standard single cant and bullnose profiles, dimensioned to be simply supported off standard lintels can be supplied. These can be linked with standard BS profiles for use in reveals and soldier bands using special transition bricks. (Speak to your local Design Advisor.)

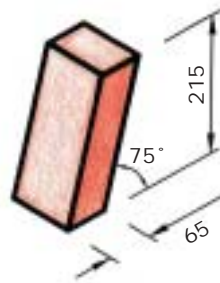
Benefits for the Builder

- Inexpensive feature brickwork giving quality, individuality and character for the minimum of cost.
- Simple, quick, traditional construction using a standard off the shelf lintel.
- Or if a visible brick soffit is required, can be used in conjunction with bed-joint reinforcement.
- Special craftsmen and time consuming building support techniques are not required.
- Standard units in stock.

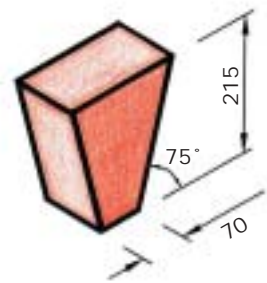
Registered Design

EASY ARCH TABLE

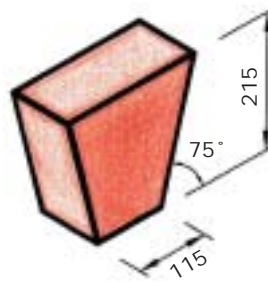
Opening sizes	Total No of Voussoirs in arch equal handed	Key brick types and joint widths - mm		
		A	B	C
300	2			9
450	4		12	9
460	6			11
468	6			12
600	6		11	9
630	8			13
685	8	8		
900	10		10	9
910	10		11	10
915	10		11	10
1135	14	8		
1200	14		10	9
1350	16		10	9
1360	16		10	9
1500	18		9	9
1585	20	8		
1770	22	10	8	
1810	22		9	9
1880	24	8		
2035	26	8		
2100	26		9	9
2250	28	11	9	8
2260	28	11	9	8
2339	30	8		
2400	30	10	9	9
2485	32	8		



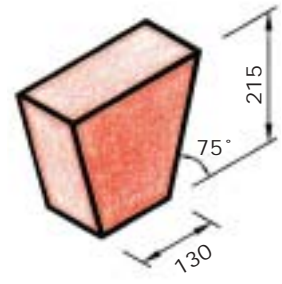
Standard Voussoir (handed)



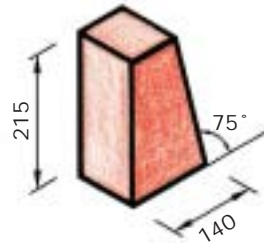
Key Brick Type A



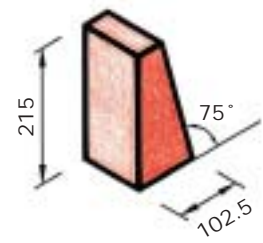
Key Brick Type B



Key Brick Type C



Springer Block Type D

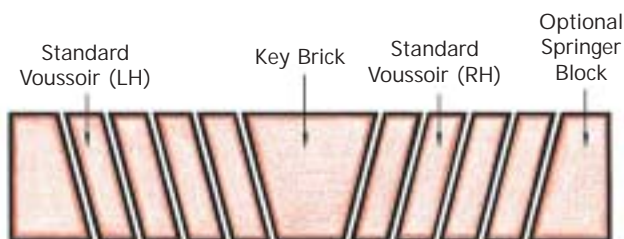


Springer Block Type E

- Opening sizes shown highlighted are brick co-ordinated dimensions.
- Joint sizes shown are rounded up or down to the nearest millimetre.

Voussoirs and Key Bricks are also faced on soffit

- Key bricks without a joint size shown can be used by extending the arch and building the skewback into the area of brickwork beyond the opening. For information consult your local Ibstock Design Advisor.

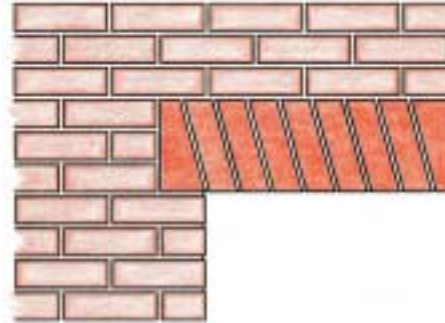


Front Elevation

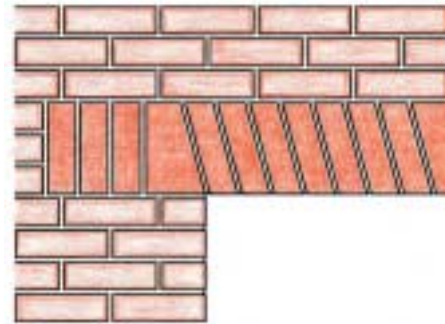
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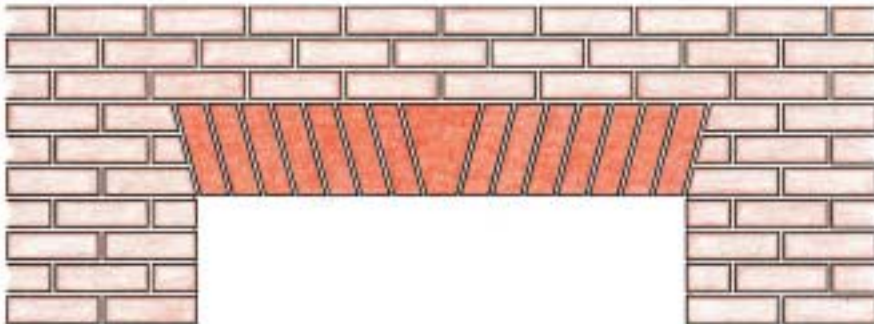
EASYARCH Options



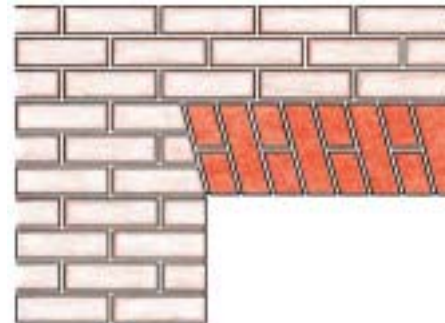
3 Course Standard Easy Arch



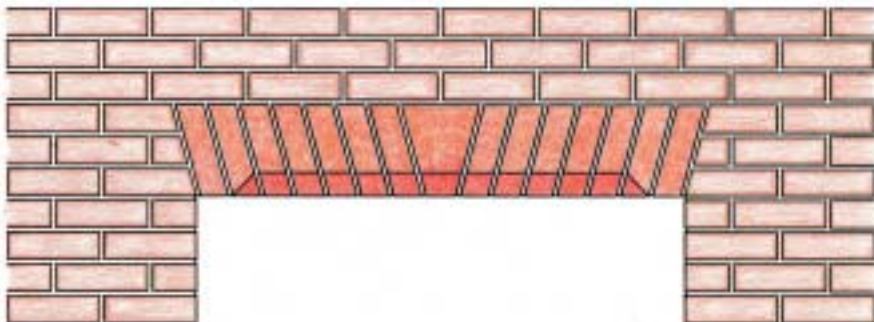
3 Course Standard Easy Arch



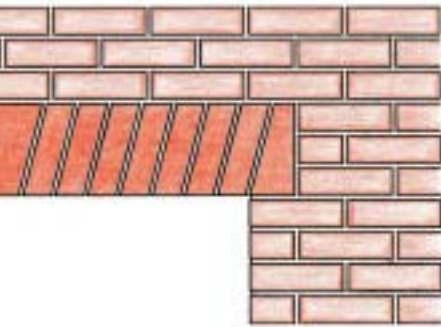
3 Course Standard Easy Arch



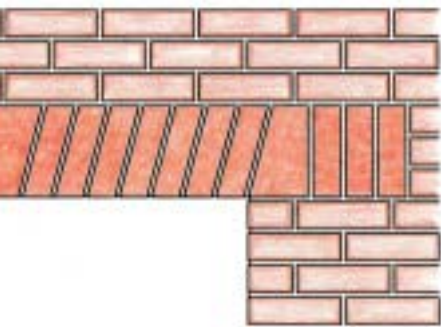
3 Course Standard Easy Arch



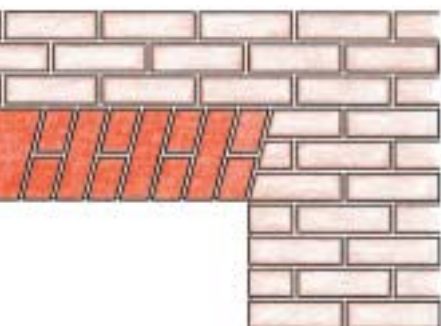
3 Course Standard Easy Arch with Cant Soffit



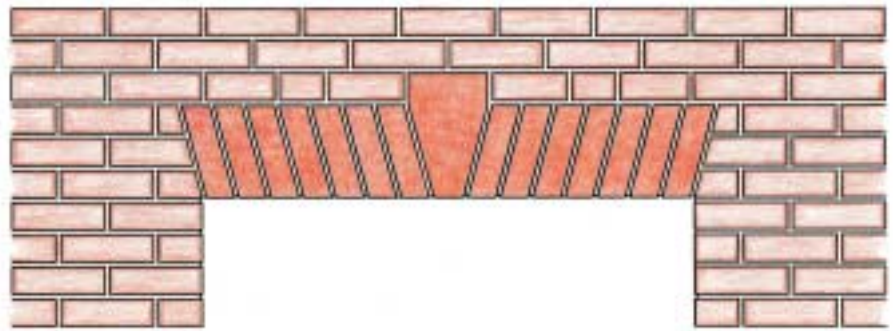
h with Small Springer Blocks



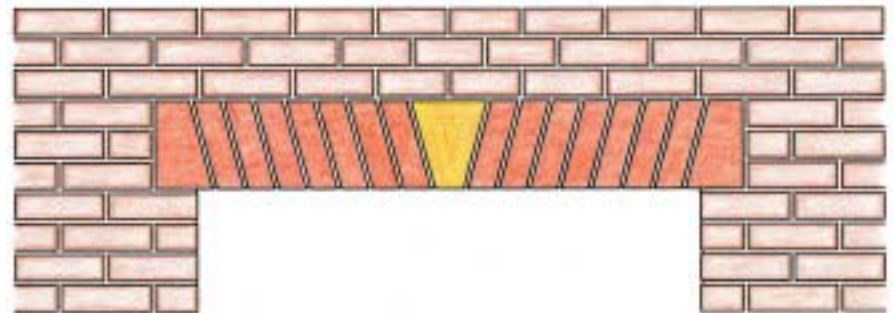
h with Large Springer Blocks



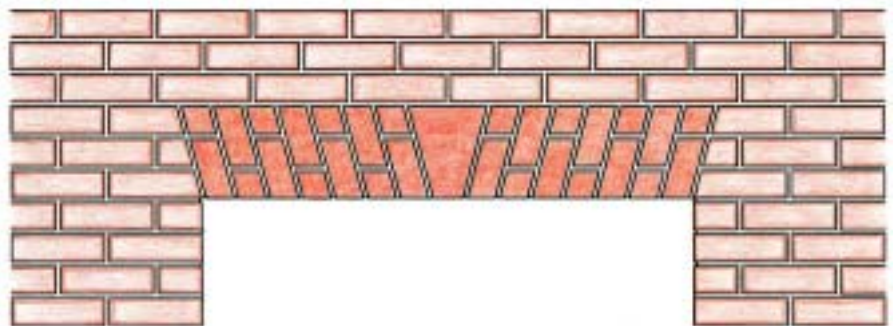
h with Half Bonded Voussoirs



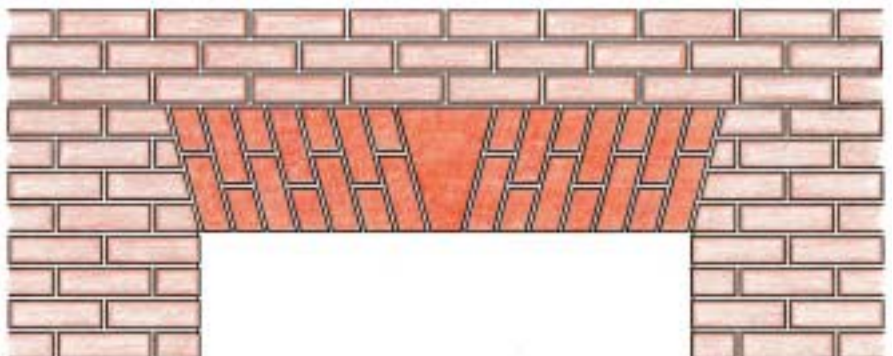
3 Course Standard Easy Arch with Upstand Keybrick



3 Course Standard Easy Arch with Large Springer Blocks for Unco-ordinated Opening



3 Course Standard Easy Arch with 1/3-2/3 Bonded Voussoirs



4 Course Standard Easy Arch with 1/3-2/3 Bonded Voussoirs

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Reinforced Option

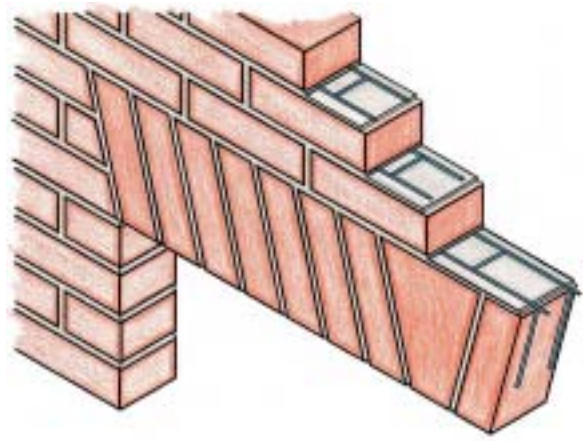


Fig.2

When a visible brick soffit is required with no lintel support then the use of bed-joint reinforcement with associated hangers can be considered.

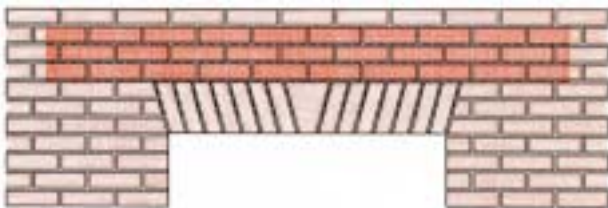


Fig.1

This is a viable option in which the easy arch, and brick courses above, function as a self-supporting beam (Fig 1). Calculations if required can be provided by the reinforcement manufacturer.

Stainless steel ladder-type reinforcement is used in three courses, directly above the arch, with hangers pushed down into the joints between voussoirs - a typical layout is shown in Fig 2.

The shaded area in Fig 1 shows the extent of the reinforcement 'brick lintel' created by this option.

Temporary support will be required to the arch during construction and whilst the mortar gains strength.

Construction is simple and straight forward, normal mortar mixes can be used and an example of the load-carrying capacity is shown in Fig 3 (2300mm opening size.)

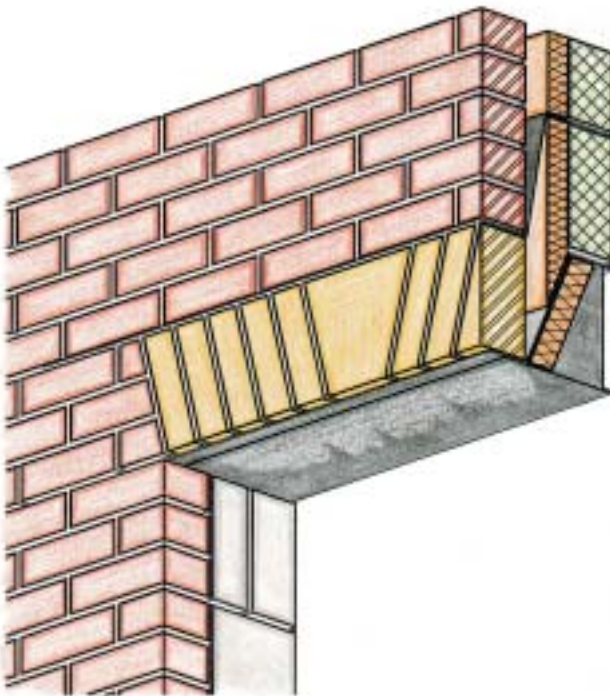
It should be noted that the reinforced option may be less effective with upstand key bricks due to the first layer of reinforcement being split.



Fig.3

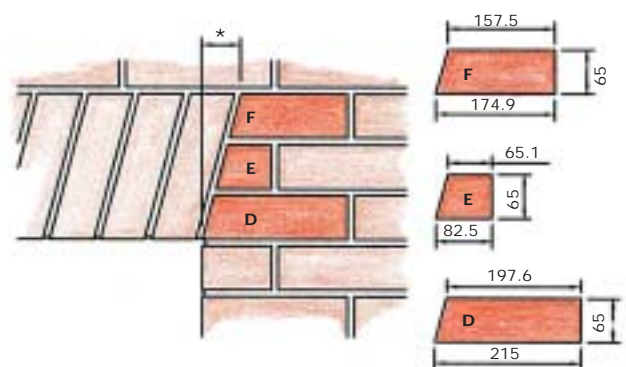
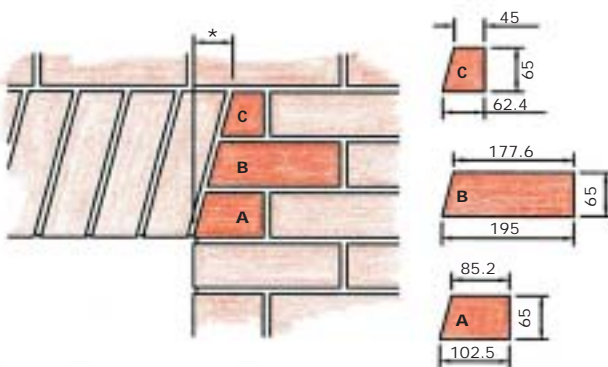
Remember

- Use supporting lintel unless reinforced option is being used.
- To use a cavity tray with stopends and brickwork weepholes.
- Stopends are also required to the ends of preformed lintels if a cavity tray is located as the adjacent diagram.
- Joint widths and key brick dimensions may vary with opening size - see table.
- Set out arch dry prior to construction.
- Reinforced option may require engineering input.



* 3 Course Skewback dimension = 57.6mm

* 4 Course Skewback dimension = 77.7mm



Dimensions for Cutting Springer Bricks to 75° Skewback Angle.

CONTACT NUMBERS

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Best quality bricks are made to BS3921:1985 specification with properties confirmed by regular sampling by BSI and testing for conformance. BSI's independence and impartiality has for 60 years strengthened and protected its international reputation for high standards of quality and consistency.

