

King Stone Products Ltd





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Introduction

King Stone Products is a rapidly expanding pre-cast concrete lintel manufacturer whose main objectives are to provide a top quality product, a level of service that is second to none and all at an extremely competitive price.

The Product

All lintels comply with Eurocode 2 (the latest design code which replaces BS8110 in 2010 and BSEN845 part 2 : 2003).

All products are manufactured to Eurocode EC1992-1-1.

All fire rated products comply with Eurocode EC1992-1-2.

All King Stone lintels are wet pre-cast products that use a 50N/mm² mix.

All moulds are produced in-house which ensures a manufacturing tolerance of +/- 3mm which compares favourably with the industry standard of +/-5mm.

A complete range of products manufactured up to 6000mm long and 4000mm wide up to a weight of 4 tonnes.

All lintels over 50kg are cast with lifting sockets to ensure safe handling on site.

All fair faced lintels are hand finished to guarantee a smooth surface, free of any air holes

The Service

Experienced staff that are able to help with design, schedules and take-offs whenever required.

Delivery nationwide Central location in Nottingham.

Collections welcomed. Able to label lintels with door/opening references during manufacture to ensure correct location on site. Able to cast inserts, channels, uni-struts, lettering, feature details etc. to make item bespoke to the construction.

Has the manufacturing flexibility to produce bespoke lintels or concrete sections should there be a requirement.

Quick response to any last minute/emergency situations.

When requested, structural calculations can be provided for any specifier, engineer, local authority etc.

Can supply any quantity from a fully loaded articulated vehicle to a single lintel (smaller quantities may incur a carriage charge should you choose not to collect them).

The Price

Compare King Stone lintels, particularly the fire rated and fair faced ranges, with other pre-cast and pre-stressed equivalents and judge for yourself!



Nature of pre-cast



King Stone manufactures pre-cast concrete lintels suitable for all wall situations, and has developed ranges to provide maximum strength and fire rating for the section size. Because of this, King Stone is confident that you will find a King Stone concrete lintel to meet your structural requirements.

Pre-cast Concrete is inherently durable and, due to our moulds being vibrated, we can guarantee the grade and level of compaction.

Pre-cast Concrete is inherently Fire Resistant due to concrete acting as an insulator and protecting the steel reinforcement. Pre-casting enables the reinforcement to be accurately positioned to ensure the correct cover protection. This is an advantage over pre-stressing where incorrect tensioning, mould movement or misalignment of the strand positions, can affect the quality of the final product.

Pre-cast Concrete naturally produces a superior finish primarily as a result of the inner surface of the moulds being regularly maintained or replaced to ensure optimum quality and performance. This also prevents grout loss or staining which can occur in mass produced concrete lintels.

In most, if not all, cases where pre-stressed lintels are specified, King Stone pre-cast lintels may be used. This is, in part, due to the loadings of King Stone pre-cast being similar or superior to a pre-stressed equivalent, particularly in the larger sized lintels which tend to be utilised in the more commercial or industrial projects.

Specification

British Standard and Design
The design of King Stone Lintels complies with Eurocode EC 1992-1-1 and Eurocode EC 1992-1-2

All products are manufactured to Eurocode EC 1992-1-1

King Stone Products utilizes an additive in all our mixes that result in the concrete possessing a very low water absorption rate which makes them ideal for use below ground.

All King Stone's lintels are wet precast products that use a 50N/mm² mix. They are suitable to accept fixings provided the

reinforcement is undamaged during drilling. However we can insert any types of fixings during the casting process to prevent the need to drill and fix. Please see Scope of Manufacture section. All fire rated products comply with Eurocode EC 1992-1-2.

Scope of manufacture

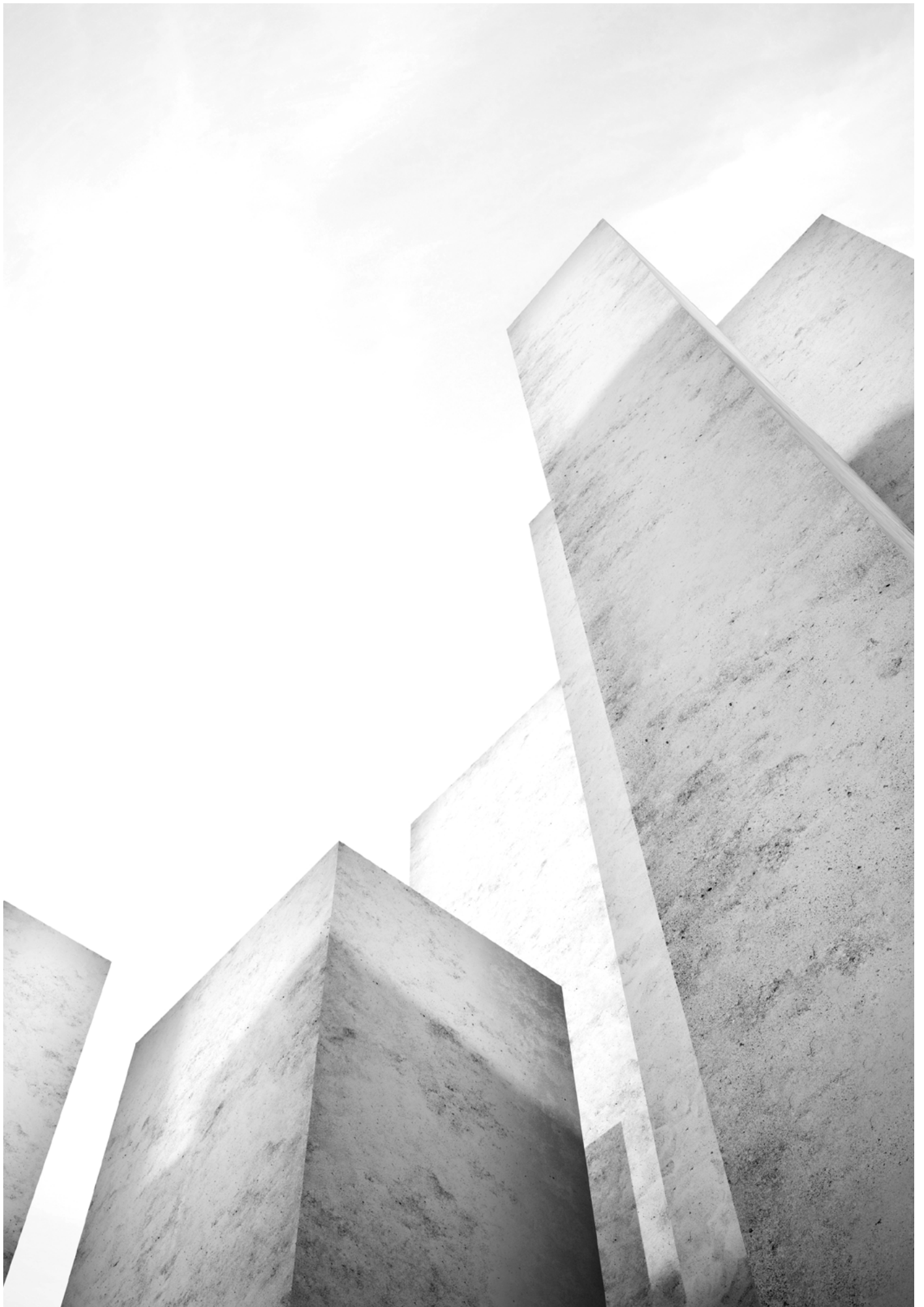
Any concrete section can be designed and manufactured up to 6000mm length and 4000mm width and a maximum weight of 4 tonnes. Increased section weights could be subject to a crane charge. Any radius lintels are available upon request with any detail, effect or colour.

All King Stone lintels are cast with lifting sockets in place, to ensure safe handling on site.

We can also label your lintels with door or opening references should you require this during manufacture. This is unique to King Stone Products and ensures that all lintels are handled and built in correctly.

We can cast inserts, channels, uni-struts, feature details, lettering and any other detail that you may require into any section to make your item bespoke to your building.

“WITH A QUALITY PRODUCT AND A HIGH LEVEL OF SERVICE KING STONE WILL REMAIN AS ONE OF LYONS & ANNOOT’S KEY SUPPLY CHAIN PARTNERS.”



Lintel Installation



All King Stone concrete lintels are cast with lifting sockets at no extra cost to ensure they are built into the wall in the correct orientation.

Concrete Lintels

As previously mentioned, all King Stone lintels over 50kg are cast with lifting sockets at no extra cost. This is to ensure that the lintels are built into the wall in the correct orientation. This removes the risk of lintels being built in incorrectly which sometimes can be experienced with other manufacturers' products.

They will have the necessary length and design code/opening reference marked onto the top of the lintel as required. This surface should remain the uppermost surface unless the unit is to be used in a cantilever situation. It is important that the lintels are installed correctly and in the correct orientation dependant upon the load bearing situation and detail.

All King Stone lintels are capable of dealing with single or multi point loads or being used in a cantilever situation. Lintels should be bedded on a level mortar bed of high grade mortar.

All Damp Proof Course details, Cavity Tray details and wall vents should be in accordance with the current building regulations and architects detailing.

For all spans greater than 1200mm the units should be propped and supported temporarily at 1200mm centres with the resulting 3 courses of masonry having time to cure before the recommencement of the building work where concrete floors are to be placed onto units, the units should be supported temporarily until the floors have been completed to reduce the risk of shock loading or uneven loading of the lintels.

All lintels should be lifted with threaded lifting loops to ensure that the units are supported and installed to ensure correct handling of the units at all times. Lifting Loops can be ordered through us should you require them.

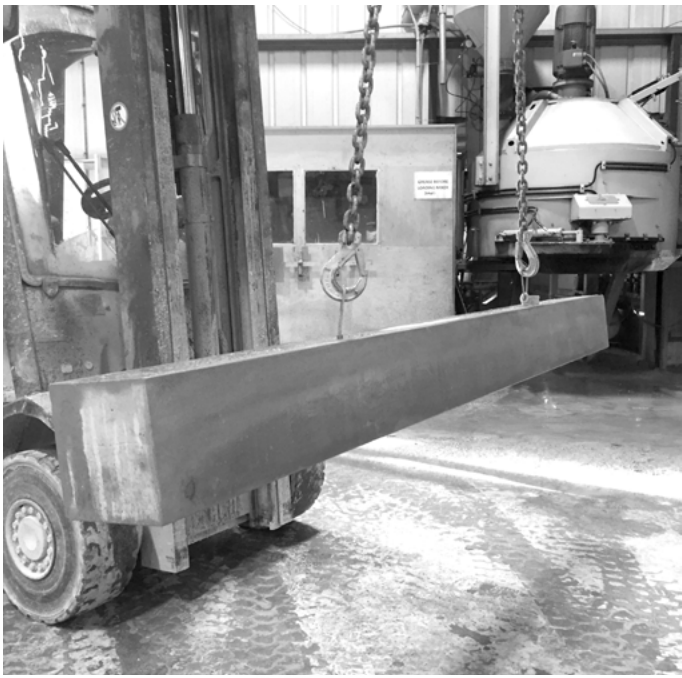
Cutting

If there is a necessity to cut, then those lintels should have the ends covered with a 10mm mortar joint. To prevent the need to cut and with our level of service, we can arrange for any extra lintels that you require to be manufactured and delivered to site on a very short turn around period and not delay your build. All special ordered lintels can be made in any sized increments.

Should you require chasing channels for onsite services, cuts can be made with a high speed diamond cutting disk ensuring correct HSE regulations are adhered to, however this may decrease the fire resistance of the unit. Should you have such a requirement it is possible to have a channel cast in during manufacture. Please speak to our technical or sales department about any particular requirements you may have.

“KING STONE CONTINUE TO OUTPERFORM OTHERS WITH TOP-QUALITY PRODUCTS. WHETHER IT IS PLAIN LINTELS OR ARCHITECTURAL PRE-CAST THEY HAVE ALWAYS BEEN ON HAND TO ADVISE WITH DESIGN AND THEIR ABILITY TO DELIVER ON VERY TIGHT PROGRAMMES IS EXCEPTIONAL.”

- NICK O'KEEFFE, MD LESTEROSE.



Lintel range overview

Standard range

A cost effective solution for all major construction requirements, these units are available in a variety of sizes for all block and wall constructions. All can be used below ground and have a 30 minute fire resistance. We can manufacture any reasonable length that you may require.

Finishes Available

STD = May see small air holes in the surface

CR = Coloured

NB: This is a coloured concrete and not just a surface colour

Fairfaced Fire range

A range of lintels where the fire rating, loadings and quality of the fair faced finish compare favourably with all other products currently in the market.

The full range is verified by a professional fire testing organisation who can supply supporting documentation where required.

Again, we can manufacture any reasonable length and section size you require. All these lintels come with a standard 60min fire rating. We can also offer higher fire ratings such as 90min or 120min, to suit your needs.

Finishes Available

FF = Hand finished with no air holes and consistency of colour

CR = Coloured

NB: This is a coloured concrete and not just a surface colour

For further information please turn to page 17



Super Fire Rated range

This is the most recent range of lintels from King Stone Products. The lintels within this range can reach up to 240 minutes fire rating on varying sections without the need for a separate outer coating and also reduces the onsite handling risk. This lintel is made from a proportion of recycled products and is environmentally friendly. The range is verified by a professional fire testing organisation who has supplied literature to support our claim.

Finishes Available

FF = Hand finished with no air holes and consistency of colour should it be needed.

Resistant range

If the site has aggressive ground conditions, constant waste, water flow or high amounts of airborne chemicals this is a suitable range to meet requirements. We can mix a grade of concrete to withstand any aggressive conditions and guarantee that there is the right amount of cover to all sides of the lintel reinforcement. There is no need for any additional process on site.

Finishes Available

Due to the nature of this range, all units are hand finished to ensure quality and consistency, perfectly smooth with no air holes.

For further information please turn to page 18



Bespoke

At King Stone we have experts in the lintel and decorative stone market and can offer you a solution or product that meets your requirements. From special sizes, curved on plan, curved on elevation, feature details, lettering, or extremely large section sizes we are able to manufacture products tailored to your specific requirements. We are in charge of the process from design and mould manufacture all the way through to the delivery on site. We do not use outside organisations or sub-contractors in any part of our operation. All our products are manufactured to a tolerance of +/- 2mm. We will work with you to meet your requirements whether it is a size or detail issue or specific fire requirements.

All our Lintels are certified by an independent Structural Engineer and tested for strength at Sheffield University. As a result we comply with BS8110 and BSEN845 as well as Eurocode EC1.1:1990. Our Fire Rated Range has been tested at Warrington Fire and Research and been assessed to ensure that our units are compliant with the necessary regulations.

All lintels over 50kg are cast with lifting sockets to ensure correct site handling and orientation. They can be labelled with opening references and manufactured to any lengths required.



**“WE HAVE USED KING STONE
AS OUR PREMIER LINTEL
SUPPLIER FOR THE LAST
10 YEARS, THEIR QUALITY,
SERVICE AND PRICE IS
SECOND TO NONE.”**

**MICHAEL WALSH, MD SWIFT
BRICKWORK LTD.**

Testing, Innovations and calculations

Design Service

A free technical service is offered by King Stone Products. Schedules, designs and calculations can all be prepared to satisfy building and CDM requirements. Our work is routinely checked by an independent structural engineer to ensure accuracy. Any strength, size, shape and intricate detailing can be achieved to ensure that the lintel design meets your requirements. Special fire protection requirements can also be taken into consideration during the design of your units should they be outside our standard range.

Drawings can be emailed direct to - enquires@kingstoneproducts.co.uk

Testing

All our testing is done by independent, professional bodies, details of which can be supplied upon request.

Calculations

Calculation sheets which are used for compiling our load tables have all been independently verified by structural engineers and are available for inspection upon request.

Innovation

At King Stone we are always looking to increase our range of products and services that we can offer not only existing customers but also prospective new clients.

If you want a particular strength, section, detail or colour, then that is what we can provide. We are experts in helping with design, manufacture and delivery. We will not compromise the quality of the products that we manufacture.



Load tables

Standard range

		Type 0	Type 1	Type 2	Type 3	Type 4a	Type 4	Type 5	Type 5R
Suitable wall thickness		100mm	100mm	100mm	100mm	140mm	140mm	140mm	215mm
Dimensions		100mm x 100mm	100mm x 140mm	100mm x 215mm	100mm x 290mm	140mm x 100mm	140mm x 140mm	140mm x 215mm	215mm x 140mm
Fire resistance		30mins	30mins	30mins	30mins	30mins	30mins	30mins	30mins
Suitable for foundation use?		YES	YES	YES	YES	YES	YES	YES	YES
Length	Clear Span	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)
900mm	700mm	9.08	52.15	120.26	153.63	12.71	104.5	104.62	104.33
1100mm	900mm	7.22	34.06	89.89	114.82	10.1	68.32	84.56	68.15
1200mm	1000mm	6.54	28.34	74.85	95.6	9.15	56.88	77.14	56.71
1500mm	1200mm	5.5	20.47	54.17	69.18	7.69	41.14	65.11	40.97
1800mm	1500mm	3.26	13.59	36.09	46.08	6.19	27.39	43.35	27.22
2100mm	1800mm	2.14	9.64	25.7	32.8	4.12	17.27	30.83	18.47
2400mm	2100mm	1.34	6.29	19.71	24.46	2.61	11.29	22.98	12.19
2700mm	2400mm	-	4.3	14.81	18.89	1.72	7.76	17.73	8.48
3000mm	2700mm	-	3.06	11.76	14.98	1.17	5.54	13.68	6.13
3300mm	3000mm	-	2.23	9.3	12.14	0.81	4.08	10.16	4.57
Lintel Weight		24.0 kg/m	33.6 kg/m	51.6 kg/m	69.6 kg/m	34.0 kg/m	47.0 kg/m	72.2 kg/m	72.2 kg/m

		Type 6	Type 7	Type 8	Type 9	Type 10	Type 11
Suitable wall thickness		140mm	190mm	190mm	190mm	215mm	215mm
Dimensions		140mm x 290mm	190mm x 140mm	190mm x 215mm	190mm x 290mm	215mm x 215mm	215mm x 290mm
Fire resistance		30mins	30mins	30mins	30mins	30mins	30mins
Suitable for foundation use?		YES	YES	YES	YES	YES	YES
Length	Clear Span	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)
900mm	700mm	153.35	104.33	128.5	154.4	206.11	228
1100mm	900mm	123.96	68.15	103.84	124.74	146.55	184.29
1200mm	1000mm	113.09	56.71	94.72	113.78	121.99	168.13
1500mm	1200mm	96.2	40.97	80.54	96.72	88.22	133.4
1800mm	1500mm	78.53	27.22	59.63	78.9	58.69	88.81
2100mm	1800mm	66.01	18.47	42.42	63.92	41.7	63.16
2400mm	2100mm	49.34	12.19	31.61	47.68	31.05	47.07
2700mm	2400mm	38.2	8.48	23.31	36.83	23.14	36.31
3000mm	2700mm	30.39	6.13	18.06	29.22	16.57	28.77
3300mm	3000mm	24.7	4.57	13.42	23.68	12.27	23.28
Lintel Weight		97.4 kg/m	63.8 kg/m	98 kg/m	132 kg/m	110.9 kg/m	149.6 kg/m

Our Load Tables are working loads and therefore have a degree of safety.
 All figures are in KN/m. - The tables are generated on the Mr of the section properties.

Fairfaced Fire range

		Type 12	Type 13	Type 14	Type 15	Type 16a	Type 16	Type 17	Type 17R
Suitable wall thickness		100mm	100mm	100mm	100mm	140mm	140mm	140mm	215mm
Dimensions		100mm x 100mm	100mm x 140mm	100mm x 215mm	100mm x 290mm	140mm x 100mm	140mm x 140mm	140mm x 215mm	215mm x 140mm
Fire resistance		60mins	60mins	60mins	60mins	90mins	90mins	90mins	90mins
Suitable for foundation use?		YES	YES	YES	YES	YES	YES	YES	YES
Length	Clear Span	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)
900mm	700mm	9.08	52.15	120.26	153.63	12.71	104.5	104.62	104.33
1100mm	900mm	7.22	34.06	89.89	114.92	10.1	66.32	84.56	68.15
1200mm	1000mm	6.54	28.34	74.85	95.6	9.15	56.88	77.14	56.71
1500mm	1200mm	5.5	20.47	54.17	69.18	7.69	41.14	65.11	40.97
1800mm	1500mm	3.26	13.59	36.09	46.08	6.19	27.39	43.35	27.22
2100mm	1800mm	2.14	9.64	25.7	32.8	4.12	17.27	30.83	18.47
2400mm	2100mm	1.34	6.29	19.17	24.46	2.61	11.29	22.98	12.19
2700mm	2400mm	-	4.3	14.81	18.89	1.72	7.76	17.73	8.48
3000mm	2700mm	-	3.06	11.76	14.98	1.17	5.54	13.68	6.13
3300mm	3000mm	-	2.23	9.3	12.14	0.81	4.08	10.16	4.57
Lintel Weight		24.0 kg/m	33.6 kg/m	51.6 kg/m	69.6 kg/m	34.0 kg/m	47.0 kg/m	72.2 kg/m	72.2 kg/m

		Type 18	Type 19	Type 20	Type 21	Type 22a	Type 22b	Type 23
Suitable wall thickness		140mm	190mm	190mm	190mm	215mm	215mm	215mm
Dimensions		140mm x 290mm	190mm x 140mm	190mm x 215mm	190mm x 290mm	215mm x 215mm	215mm x 215mm	215mm x 290mm
Fire resistance		90mins	90mins	90mins	90mins	90mins	120mins	90mins
Suitable for foundation use?		YES	YES	YES	YES	YES	YES	YES
Length	Clear Span	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)
900mm	700mm	153.35	104.33	128.5	154.4	206.11	206.11	228
1100mm	900mm	123.35	68.15	103.84	124.74	146.55	146.55	184.29
1200mm	1000mm	113.09	56.71	94.72	113.78	121.99	121.99	168.13
1500mm	1200mm	96.2	40.97	80.54	96.72	88.22	88.22	133.4
1800mm	1500mm	78.53	27.22	59.63	78.9	58.69	58.69	88.81
2100mm	1800mm	66.01	18.47	42.42	63.92	41.70	41.70	63.16
2400mm	2100mm	49.34	12.19	31.61	47.68	31.05	31.05	47.7
2700mm	2400mm	38.2	8.48	23.31	36.83	23.14	23.14	36.31
3000mm	2700mm	30.39	6.13	18.06	29.22	16.57	16.57	28.77
3300mm	3000mm	24.7	4.57	13.42	23.68	12.2	12.2	23.28
Lintel Weight		97.4 kg/m	63.8 kg/m	98 kg/m	132 kg/m	110.9 kg/m	110.9 kg/m	149.6 kg/m

Super Fire Rated range

		Type 24	Type 25	Type 26	Type 27	Type 28	Type 29	Type 30	Type 31
Suitable wall thickness		100mm	100mm	140mm	140mm	140mm	215mm	100mm	190mm
Dimensions		100mm x 140mm	100mm x 215mm	140mm x 140mm	140mm x 215mm	140mm x 215mm	215mm x 215mm	100mm x 290mm	190mm x 140mm
Fire resistance		120mins	120mins	120mins	120mins	240mins	240mins	120mins	120mins
Length	Clear Span	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)
900mm	700mm	52.15	120.26	104.5	104.62	104.62	206.11	153.63	104.33
1100mm	900mm	34.06	89.89	68.32	84.56	84.56	146.55	114.82	68.15
1200mm	1000mm	28.34	74.85	56.88	77.14	77.14	121.99	95.6	56.71
1500mm	1200mm	20.47	54.17	41.14	65.11	65.11	88.22	69.18	40.97
1800mm	1500mm	13.59	36.09	27.39	43.35	43.35	58.69	46.08	27.22
2100mm	1800mm	9.64	25.7	17.27	30.83	30.83	41.7	32.8	18.47
2400mm	2100mm	6.29	19.17	11.29	22.98	22.98	31.05	24.46	12.19
2700mm	2400mm	4.3	14.81	7.76	17.73	17.73	23.14	18.89	8.48
3000mm	2700mm	3.06	11.76	5.54	13.68	13.68	16.57	14.98	6.13
3300mm	3000mm	2.23	9.3	4.08	10.16	10.16	12.27	12.14	4.57
Lintel Weight		33.6 kg/m	51.6 kg/m	47.0 kg/m	72.2 kg/m	72.2 kg/m	110.9 kg/m	69.6 kg/m	63.8 kg/m

		Type 32	Type 33	Type 34	Type 35	Type 36	Type 37	Type 38	Type 39	Type 40
Suitable wall thickness		190mm	215mm	190mm	140mm	140mm	190mm	190mm	215mm	215mm
Dimensions		190mm x 215mm	215mm x 140mm	190mm x 215mm	140mm x 290mm	140mm x 290mm	190mm x 290mm	190mm x 290mm	215mm x 290mm	215mm x 290mm
Fire resistance		120mins	120mins	240mins	120min	240min	120min	240min	120min	240min
Length	Clear Span	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)	SWL (kN/m)
900mm	700mm	128.5	104.33	128.5	153.35	153.35	154.4	154.4	228.00	228.00
1100mm	900mm	103.84	68.15	103.84	123.96	123.96	124.74	124.74	184.29	184.29
1200mm	1000mm	94.72	56.71	94.72	113.09	113.09	113.78	113.78	168.13	168.13
1500mm	1200mm	80.54	40.97	80.54	96.2	96.2	96.72	96.72	133.4	133.4
1800mm	1500mm	59.63	27.22	59.63	78.53	78.53	78.9	78.9	88.81	88.81
2100mm	1800mm	42.42	18.47	42.42	66.01	66.01	63.92	63.92	63.16	63.16
2400mm	2100mm	31.61	12.19	31.61	49.34	49.34	47.68	47.68	47.07	47.07
2700mm	2400mm	23.31	8.48	23.31	38.2	38.2	36.83	36.83	36.31	36.31
3000mm	2700mm	18.06	6.13	18.06	30.39	30.39	29.22	29.22	28.77	28.77
3300mm	3000mm	13.42	4.57	13.42	24.7	24.7	23.68	23.68	23.28	23.28
Lintel Weight		98 kg/m	72.2 kg/m	98 kg/m	97.4 kg/m	97.4 kg/m	132 kg/m	132 kg/m	149.6 kg/m	149.6 kg/m

Fairfaced Fire range

Fairfaced Fire range

The Fairfaced Fire Range is the most popular of the King Stone ranges. The lintels are cast using a Class 1 Limestone aggregate which gives the item maximum strength and help towards its fire rating. Because of this they are a direct comparison to other manufacturers' lintels that are promoted as high strength.

The range is suitable for all normal wall thicknesses, as the load tables on the next page display and can be manufactured to customer specifications. All the lintels are hand finished to remove any surface air holes, giving it a completely smooth finish and completing the fair facing process.

All Fair Faced lintels come with a standard 60 minutes fire rating. However we have developed further one part mixes to achieve 90 and even 120 minute fire ratings. The lintels can be cast in any colour that is required, however only white and grey can achieve the 120 minute fire rating. All lintels comply with the necessary British and Eurocode Standards.



Super Fire Rated range

Super Fire Rated range

The Super Fire Rated Range is the latest range that King Stone Products have developed to meet industry requirements and ensure that we are at the cutting edge of lintel technology. The lintels within this range can reach up to 240 minutes fire rating on varying sections. We have developed the first lintel range to achieve 240 minutes on a 140mm wide section without the need for a separate outer coating. The new range, that comes in wall thicknesses of 100mm, 140mm and 215mm, are available in all depths of our standard range and will carry the same loadings.

The lintels are constructed from a newly developed material that has enhanced thermal performance but maintains all the characteristics of normal concrete with a density of 2000kg/m³. The material ensures that the surface is flawless and is fairfaced in its appearance. This revolutionary lintel has a very low cement content; only 2% and emits very little CO₂ during manufacture.

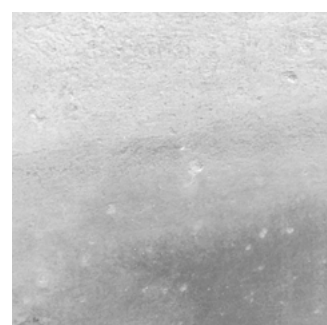
Due to a substantial amount of ingredients of the new material coming either from renewable sources or from recycled products either means that the lintels green credentials are exceptionally high. This, coupled with the 4 hour fire rated resistance, which is guaranteed by an independent fire testing organisation make this an attractive product for the specifier.

The material used is exclusive to King Stone Products. The use of the material means there is no need for an outer coating that may delaminate, get damaged in transit or require to be re-patched on site.

It is simply a one part mix as are all our other lintels.

Padstones

A full range of padstones are available from King Stone Products with a strength that is guaranteed and checked by an independent body. All padstones come with a minimum of 50N/mm² concrete and can be cast with special fixings or reinforcement details as required. We can manufacture any section size or detail that you may require. All Padstones can be assured of the King Stone quality. We have the section sizes shown below in stock, with an additional 2 L-shaped sections available. Any special sized padstones can be made extremely quickly at a competitive price with guaranteed quality. Special colours, strengths and grades of concrete can also be made upon request.



Stock Padstones

Reference	Width	Height	Length
P1	100mm	215mm	440mm
P2	140mm	215mm	440mm
P3	215mm	215mm	440mm

Stock L-Shaped Padstones

Reference	Width	Height	Leg 1 Length	Leg 2 Length
'L' P1	100mm	215mm	440mm	440mm
'L' P2	140mm	215mm	440mm	440mm

COSHH Information

1. Identification

Identification of the Lintel/Preparation and the Company

Product Name(s)

1. Standard Range
2. Fairfaced Fire Range
3. Super Fire Range
4. Padstones

Company

King Stone Products Limited, Unit 154 Langar Trading Estate, Harby Road, Langar, Nottinghamshire, NG13 9HY
Telephone +44 (0) 1949 831832 Fax +44 (0) 1949 831841

Intended Use

1.2.3.5. The support of Brick and Block work openings 4.7. The support of Brick and Block work openings in Fire performance walls 5. The Spreading of loads in Brick and Block work walls

2. Composition

Information on Ingredients

Hazardous Ingredients Ground Limestone Whitening Portland Cement Mica

3. Hazards Identification

Main Hazards

Irritation to skin; Risk of serious damage to eyes during Cutting; May cause sensation by skin contact; Straining during lifting; Finger entrapment during lifting; Cuts to hands and fingers from corner of units.

4. First Aid Measures

Skin Contact

Irritation to Skin - Wash off immediately with plenty of soap and water. Remove contaminated clothing, seek medical attention if irritation or symptoms persist.

Eye Contact

Irritation to eyes - Rinse immediately with plenty of sterile eyewash holding the eye lids open. Seek medical attention if irritation or symptoms persist.

Inhalation

Irritation to respiratory system. Move the exposed person to fresh air. Seek medical attention.

Ingestion

Ingestion may cause nausea and vomiting. Seek medical attention if irritation or systems persist. DO NOT INDUCE VOMITING.

Lacerations

Clean all cuts with an antiseptic wipe thoroughly and cover with a sterile dressing. Monitor. Seek medical attention.

Back Injury

Stabilise casualty and seek medical attention immediately. DO NOT MOVE THE INJURED PERSON UNLESS THE SITUATION WOULD FURTHER AFFECT THE LIFE OF THE INJURED PERSON.

5. Fire Fighting Measures

Extinguishing

Use extinguishing media appropriate to surrounding fire conditions

6. Accidental Release Measures

Personal

Ensure adequate ventilation of the working area. Wear suitable protective equipment for the task.

Dust Masks to comply with EN 149FFFP1 or EN1449 FFFP2S during cutting or surface hardening of concrete

Eye protection during cutting to comply with appropriate British Standards

Ear protection during cutting to comply with appropriate British or European Standards

Clothing particular to hands and feet, suitably reinforced footwear and chemically resistant gloves (PVC). Long sleeved garments and long trousers to protect from abrasion

Environmental

All waste from cutting should be swept up and disposed of. Do not allow waste product to enter drains. Unused concrete, all though inert, should be disposed of in accordance with local legal requirements.

Clean up Methods

Sweep up. Transfer to suitable labelled containers for disposal. Clean cutting area with plenty of water.

7. Handling

Handling, Transportation and Storage

Handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best manual handling practises and current regulations when lifting units.

Lifting

When using mechanical plant, only one layer of lintels should be lifted at any one time with units being supported at both ends. Units should be handled carefully to avoid heavy blows, dropping or reverse bending. Where possible the cast in lifting sockets should be used to move units into their location and no lifting should take place above work areas. Due to the weight of some units the machinery and equipment used should be regularly maintained and serviced and a check should be completed to ensure that the item being lifted does not exceed the capabilities of the machinery.

Storage

Keep in a well ventilated area and where possible avoid adverse weather. Stacking should be on a firm level area with no stack in excess of 1.5mtrs. Lintels should be supported on either end with bearers directly over each other. All units should be examined for cracks. If cracks are present then these units should not be used without referral to King Stone Products Ltd.

Transportation

Care should be taken when stacking precast units relative to their size with units being off loaded onto a firm level site. Loads should be secured to comply with the operators licence for the transportation of non hazardous products. The product is not classified as dangerous for carriage.

8. Fixing of Units

Safety

The work area should be prohibited to all other personnel and the units lifted in accordance with HSE regulations using the cast in lifting bolts onto structural sound level masonry. Where hollow block or brickwork is forming the structural supports for the lintels, these should be filled using a high grade mortar and fully cured prior to the placement of the units.

9. Toxicological Information

Ground Limestone Whitening - Oral Rat LD50 = 5001 mg/kg.

Acute Toxicity - Inhalation of dust may cause shortness of breath

Sensitization - May cause sensitisation by skin contact

Repeated of prolonged exposure - May cause dermatitis



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