

# Prestressed Lintels

CI/SfB
31.9

**NAYLOR**  
L I N T E L S

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UK's leading  
manufacturer of  
concrete lintels



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## Useful Contacts

**Free Technical Hotline 0800 5424192**

**Sales Telephone 01924 267286**

**Sales Fax 01924 265674**

**[www.naylorlintels.co.uk](http://www.naylorlintels.co.uk)**

For brochure downloads & case studies

**[Specifications@naylor.co.uk](mailto:Specifications@naylor.co.uk)**

For drawing emails and schedule requests

**[Technical@naylor.co.uk](mailto:Technical@naylor.co.uk)**

For specific bespoke requirements and to request a visit from our technical staff

**[Enquiries@naylor.co.uk](mailto:Enquiries@naylor.co.uk)**

For sales, prices and delivery requirements

**[Lintels@naylor.co.uk](mailto:Lintels@naylor.co.uk)**

For orders or to request information

# Introduction

Naylor, a manufacturer of building materials since 1890 combines a wealth of experience in manufacturing techniques and in-depth ranges with a reputation for quality products, service and value for money.

The Naylor lintel range has been continually improved and enhanced over the last 30 years in response to ever changing customer requirements and needs. The result is an unrivalled range offering lintels to suit every situation, backed up by a speedy and efficient specials service.

## Nationwide Stockists

Naylor produce annually over 1 million metres of lintels. As well as having stocks of over 100 standard sections of lintels, Naylor are also able to supply specials at short notice. Naylor Lintel Stockists are therefore offered an unrivalled range of prestressed concrete lintels for both industrial and commercial use.

Naylor Lintel Stockists are located throughout the UK to give back-up and local supply facilities to the end user.

## Technical Services

A free design and technical service is available and advice is given for particular requirements and applications. Lintel schedules and calculations can be provided from working drawings.

Naylor Lintels can be specified from the NBSPlus Clause F30:740.

Drawings may be e-mailed directly to: [specifications@naylor.co.uk](mailto:specifications@naylor.co.uk)

# Features and Benefits

- The widest range of any Prestressed Lintels available from one manufacturer in the UK
- A nationwide delivery service and nationwide prices, regardless of site destination
- Guaranteed quality and consistency
- Free technical support and help to anywhere in the UK
- Unrivalled specials service
- Multi product deliveries, you can add clay & plastic pipes & fittings to any delivery
- A simple pricing policy, you only pay per metre so there are no extra charges for a specific length
- All lintels are clearly marked and removing any risk on site that the wrong lintel might be built in
- Close quality control and fire tolerances are achieved in our modern and innovative factory
- An unrivalled specials service where we can manufacture any design, length or strength of lintel that you require
- A free Scheduling service
- A free Technical Hotline and Backup service
- We will come and see you to discuss your lintel, delivery and site requirements and answer your technical questions

# Naylor Lintels Range



## Hi-Spec Range

The best performing Concrete Lintels on the UK Market. All units are pre-stressed to ensure optimum performance and come with 30 minutes fire rating as standard. With a range of 19 different sections sizes and with lengths available up to 6200mm on certain sections sizes. Due to additives these units are suitable for use below ground. Different reinforcement type and position than that used in our economy range.

### Finish

An ex-steel mould finish and made from wet cast concrete. Possibility of small air holes on the surface, aggregate and concrete fines to bottom arrises. For use normally in plastered situations. Not exposed situations.

### Order/Specification Code

Use the Hi-Spec reference on our load tables (e.g. S5)



## Fair Faced Range

A range of lintels with the same performance and fire rating as the standard Hi-Spec range but with a smooth, consistent colour finish.

### Finish

Type C Fair Faced finish.

All corners and arrises and faces on the lintel are perfect.

### Order/Specification Code

Prefix the Hi-Spec reference with the word Faced (e.g. Faced S5)



## Colour-Spec Range

A range of lintels to suit a specific site requirement. The units can be coloured to over 500 different colours to match stone or blockwork. The colour penetrates the surface and gives consistency of colour.

### Finish

Coloured finish perfectly smooth with perfect corners arrises and face and all units are hand finished.

### Order/Specification Code

Prefix Hi-Spec reference with the word Colour (e.g. Colour S5)



## Chem-Spec Range

A range of special lintels which can withstand aggressive and contaminated ground conditions, these units can also be used in effluent situations due to the additives that are used in this mix of concrete.

### Finish

As per the Hi-Spec Range

### Order/Specification Code

Prefix Hi-Spec reference with the words Chem (e.g. Chem S5)

## Faced Fire Range

A range of lintels with the same fire resistance properties as our Fire-Spec range but with the same finish as our Fair Faced units that are designed to be used in fair faced, paintgrade and blockwork situations, These units can also be coloured upon request.

### Finish

Type C Fair Faced finish.

All corners and arrises and face on the lintel are perfect and the units are hand finished.

### Order/Specification Code

Prefix Hi-Spec reference with the words Faced Fire (e.g. FacedFire S5)



## Fire-Spec Range

A range of lintels with enhanced fire resistance, 140mm wide units can achieve 90 minutes, 190mm and 215mm wide units can achieve 120 minutes fire resistance. All units comply with BS8110 Table 4.3 section 2 and as a result have a slightly less load bearing capacity when compared with the Hi-Spec Range

### Finish

An ex-steel mould finish and made from wet cast concrete. May see small air holes on the surface and concrete fines to bottom arrises. For use normally in plastered situations. Not exposed situations.

### Order/Specification Code

Prefix Hi-Spec reference with the word Fire (e.g. Fire S5)



## Ultra-Fire Range

Our newest range of lintels with an enhanced fire resistance. Due to the special coating applied in this dual cast product, 100mm wide units can achieve 90 minutes fire resistance as standard, and 140mm wide and 215mm wide units can achieve 240 minutes. The lintels also comply with BS8110 table 4.3 section 2.

### Finish

These lintels have a slightly different texture to concrete but are smooth and are ideally suited to paint grade or exposed situations. They can also be left natural but we would advise the use of a waterproof sealant to reduce surface dusting.

### Order/Specification code

As per the product range (e.g. Ultra-Fire 100-6, Ultra-Fire 100-9, Ultra-Fire 140-9, Ultra-Fire 215-9.)



## Specials Service

At Naylor's we do not only manufacture lintels - anything in concrete can be made to a high standard, because we are innovators in prestressed and pre-cast concrete, we pride ourselves in offering solutions to the industry, whether it be curved on plan, curved on elevation, special sizes, particular strength or section requirements, special applications or just want to reduce the risks with on site casting, we can offer a cost effective solution. All units are cast to B.S. tolerances, with a wide range of finishes and casting details available. We can manufacture lengths up to 8 mtrs long and 1 mtr wide with the maximum weight available per unit of 4 tonnes. We work with you to find a solution at a competitive price and our technical team can visit you either on site or at your offices and manage the order from start to finish.





## Padstones

A full range of padstones are available with a strength that is a minimum of 50N/mm<sup>2</sup> and are suitable to take special fixing or any other site situations. We have a large range of 29 sections available as standard stock items with an additional 6 L-shaped padstones available. Specials can be made also at a competitive price and the quality assures you that the concrete will take any loads placed upon it. Special strength higher than 50N are also available on request



## Economy Range

A cost effective fully reversible unit for when you have a standard housing situation or small load situation.

### Finish

An ex-steel mould finish and made from wet cast concrete. May see small air holes on the surface, aggregate and concrete fines to bottom arrises. For use normally in plastered situations. For exposed situations see Fair Faced Range

### Order/Specification Code

Please see the Economy Load Tables (e.g. ER1, ER2 etc)



## L-Strip Steel Range

A range of Steel L-Shaped angle lintels suitable for brick and stone to carry the external leaf.

Available in galvanised (Pregalv G600) and stainless steel grade 304. Other specially designed steel lintels available upon request.

# Design Service



A free design and technical service is available and advice and guidance gladly given for any particular requirements and applications. Lintel calculations and schedules can be provided from working drawings and solutions offered for any specific design, colour, finish, shape, curve or fire requirement.

**Drawings can be emailed directly to:**  
**specifications@naylor.co.uk**  
**or to discuss call: 0800 5424192.**

## Specification

### British Standards and Design

The design of Naylor Prestressed Lintels complies with BS8110:part 1: 1997: Section 4.

Naylor Lintels are Manufactured in accordance with BSEN845 part 2: 2003.

Materials used in the manufacture of Naylor Prestressed Lintels comply with BSEN206 and BS8500. The prestressing wire complies with BS5896.

Naylor Lintels have a low water absorption and as a result of the quality controlled hi spec dense concrete mix used in their manufacture, they can be used underground providing that the ends of the units are encased in a minimum of 45mm of mortar to the ends of the reinforcing strands.

All Naylor Lintels are wet cast and have a concrete strength of 50 kN/mm<sup>2</sup> and are suitable to accept fixings providing that the tendons contained inside the unit remain undamaged.

All fire rated Lintels produced by Naylor Lintels comply with BS8110:table 4.3:section 2:1985.

All L-Strip are manufactured from steel complying with BSEN10025 with a minimum yield stress of 275N/mm<sup>2</sup>. Zinc coating is galvanised to BS2989z2. Stainless Steel L-Strip is also produced, conforming to grade 304:S15:BS1449:Part 2.

### Compliance with Building Regulations Part L and Part E

Implementation of the amendments to part E and L of the Building Regulations came into force in 2002. Amongst the new measures it is required that the thermal bridging and fabric insulation be improved (part L) and the resistance to sound reverberation, especially at low frequencies, required (Part E) be increased.

**Compliance with the new regulations can easily be achieved using our Hi-Spec range of lintels.**

### Scope of manufacture

Lintels can be manufactured to lengths up to 6000mm dependant upon the section size.

Lintels can also be cast with inserts, channels and fixings.

Specials can be made any shape or size to a maximum weight of 4 tonnes, 8000mm length and 2000mm width radius lintels available from a minimum radius of 585mm and any maximum radius available.

### Lintel end bearing

Lintels are usually supplied with the following allowances for bearing at each end unless otherwise stated.

- 100mm for openings up to and including 1000mm
- 150mm for openings up to and including 3000mm
- 200mm for openings over 3000mm

It is however the responsibility of the building designer to ensure that these end bearings are sufficient to ensure that there is no over stressing of the masonry at the supports.

# Installation - code of practice

## Concrete Lintels

All Hi-Spec and Fair Faced lintels are marked 'TOP'. This surface should remain uppermost at all times unless the units are being used in a cantilever situation. It is important that the lintels are installed the correct way according to the load bearing situation. If the mark 'TOP' cannot be seen then the unit should be placed so that the reinforcement strand is close to the bottom of the unit and away from the load that is imposed.

Naylor Economy range is fully reversible and can be installed in either direction. As a consequence these units are not marked.

All lintels should be bedded on a level full mortar bed.

All wall ties, damp proof courses and weep vents should comply with the current building regulations.

Where possible it is advised that on cavity wall construction that both internal and external leaves should be built uniformly.

For spans greater than 1200mm it is good practice to provide temporary support at 1200mm centres. If the lintels are to be supporting a concrete floor a minimum lintel depth of 140mm is recommended to allow for impact loads during the actual placing of the concrete floor units.

## Steel Lintels

All lintels should be bedded on a level full mortar bed. For spans greater than 1200mm temporary support should be used until the first 3 courses of masonry have matured sufficiently for the support to be removed. In certain cases the door frame, window frame or timber former for the opening are sufficient for this purpose but this is dependant upon the quality and material of the frame or former.

All wall ties, damp proof courses and weep vents should comply with the current building regulations.

## Special Requirements

Should you have any special Lintel requirements that are not detailed in our standard range or wish to discuss any of our products in more detail please call our technical team on 0800 5424192 who will be more than happy to discuss your lintel requirements in more detail or arrange a visit to offer an appropriate solution.

## Cutting

Concrete Lintels may be cut using a high speed diamond cutting disc. Use of such equipment should be by a properly trained operative who is aware of the health and safety requirements of the machine and the COSHH information for the product.

Under no circumstances should the Ultra-Fire Range of Lintels be cut down in size.

For Naylor Industries COSHH information which details Naylor Lintels Products, together with Handling and Storage please visit [www.naylorlintels.co.uk](http://www.naylorlintels.co.uk) or call our free technical hotline on 0800 5424192.



# Hi-Spec Range



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



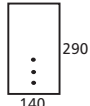
### Finish

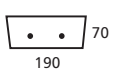
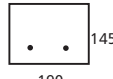
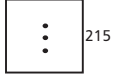
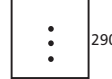
An ex-steel mould finish and made from wet cast concrete. May see small air holes on the surface, aggregate and concrete fines to bottom arrises. For use normally in plastered situations. Not exposed situations.

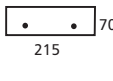
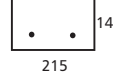


### Order/Specification Code

Use the Hi-Spec reference on our load Tables (e.g. S5)

Hi-Spec Range		P100	S4	R6	R9	R12
<b>Load Table</b> Units suitable for 100mm wide walls						
Unfactored Loads in kN/m						
Fire Resistance Available (mins)		30	30	30	30	30
Suitable for Foundation Use		yes	yes	yes	yes	yes
Maximum Stock Length Available		2400mm	3000mm	3600mm	3600mm	3600mm Longer lengths available on request.
Available Range Finish		Chem	Faced Colour Chem	Faced Colour Chem	Faced Colour Chem	Faced Colour Chem
Length	Clear Span	100x70	100x100	100x140	100x215	100x290
900mm	700mm	17.67	34.27	50.74	78.18	100.05
1100mm	900mm	10.89	23.18	40.47	62.44	79.90
1200mm	1000mm	8.86	19.04	36.74	56.72	72.57
1500mm	1200mm	6.18	13.48	26.19	48.57	60.85
1800mm	1500mm	3.95	8.75	17.14	36.27	49.66
2100mm	1800mm	2.72	6.10	12.04	25.78	41.91
2400mm	2100mm	1.96	4.47	8.89	19.21	31.70
2700mm	2400mm	n/a	3.39	6.80	14.83	24.53
3000mm	2700mm	n/a	2.64	5.34	11.76	19.49
3300mm	3000mm	n/a	n/a	4.29	9.53	15.83
3600mm	3300mm	n/a	n/a	3.75	8.36	13.49
Lintel Weight kg/m		17	26	35	53	69.6

Hi-Spec Range		P140	R3	S5	R8	R11
<b>Load Table</b> Units suitable for 140mm wide walls Unfactored Loads in kN/m						
Fire Resistance Available (mins)		30	30	30	30	30
Suitable for Foundation Use		yes	yes	yes	yes	yes
Maximum Stock Length Available		2400mm	3000mm	3600mm	3600mm	3600mm
					Longer lengths available on request.	
Available Range Finish		Chem	Faced Colour Chem	Faced Colour Chem	Faced Colour Chem	Faced Colour Chem
Length	Clear Span	140x70	140x100	140x140	140x215	140x290
900mm	700mm	18.14	49.17	63.32	100.57	128.00
1100mm	900mm	11.15	33.04	50.50	80.31	102.20
1200mm	1000mm	9.06	27.08	41.89	72.95	98.82
1500mm	1200mm	6.31	19.11	29.81	62.22	77.58
1800mm	1500mm	4.00	12.38	19.49	41.60	63.30
2100mm	1800mm	2.73	8.62	13.67	29.53	51.38
2400mm	2100mm	1.96	6.31	10.07	21.97	38.35
2700mm	2400mm	n/a	4.79	7.68	16.93	29.64
3000mm	2700mm	n/a	3.74	6.03	13.40	23.53
3300mm	3000mm	n/a	n/a	4.83	10.83	19.09
3600mm	3300mm	n/a	n/a	4.20	9.49	16.25
Lintel Weight kg/m		24	34	47	72	97.4

Hi-Spec Range		P190	R2	R190	R13
<b>Load Table</b> Units suitable for 190mm wide walls					
Unfactored Loads in kN/m					
Fire Resistance Available (mins)		30	30	30	30
Suitable for Foundation Use		yes	yes	yes	yes
Maximum Stock Length Available		2400mm	3000mm	3600mm Longer lengths available on request.	3600mm
Available Range Finish		Chem	Faced Colour Chem	Faced Colour Chem	Faced Colour Chem
Length	Clear Span	190x70	190x145	190x215	190x290
900mm	700mm	30.88	81.86	126.49	162.20
1100mm	900mm	19.02	60.78	101.00	126.49
1200mm	1000mm	15.48	50.12	91.72	117.60
1500mm	1200mm	10.79	35.69	70.66	97.99
1800mm	1500mm	6.88	23.34	46.87	79.77
2100mm	1800mm	4.72	16.36	33.22	56.74
2400mm	2100mm	3.41	12.03	24.68	42.28
2700mm	2400mm	n/a	9.17	18.98	32.63
3000mm	2700mm	n/a	7.17	14.99	25.85
3300mm	3000mm	n/a	5.73	12.08	20.92
3600mm	3300mm	n/a	4.98	10.56	17.77
Lintel Weight kg/m		32	66	98	132.2

Hi-Spec Range		P215	R7	S8	R14
<b>Load Table</b> Units suitable for 215mm wide walls					
Unfactored Loads in kN/m					
Fire Resistance Available (mins)		30	30	30	30
Suitable for Foundation Use		yes	yes	yes	yes
Maximum Stock Length Available		2400mm	3600mm	3600mm Longer lengths available on request.	3600mm
Available Range Finish		Chem	Faced Colour Chem	Faced Colour Chem	Faced Colour Chem
Length	Clear Span	215x70	215x145	215x215	215x290
900mm	700mm	32.53	90.15	138.94	178.60
1100mm	900mm	20.02	63.86	110.93	142.58
1200mm	1000mm	16.29	52.65	92.25	129.48
1500mm	1200mm	11.35	37.48	74.26	107.73
1800mm	1500mm	7.23	24.49	49.23	83.95
2100mm	1800mm	4.96	17.15	34.87	59.68
2400mm	2100mm	3.57	12.60	25.89	44.45
2700mm	2400mm	n/a	9.59	19.89	34.28
3000mm	2700mm	n/a	7.49	15.69	27.14
3300mm	3000mm	n/a	5.97	12.63	21.94
3600mm	3300mm	n/a	5.18	11.04	18.62
Lintel Weight kg/m		36	75	111	150

# Specials Service



Here at Naylor's we pride ourselves on being innovative in our approach to all building problems and offering solutions. With our modern factory and stringent manufacturing processes we can work with you through the design process and on site installation to ensure your satisfaction is guaranteed.

“A Special lintel Manufacturer  
with a Special Service”  
(Fairhurst Architects)

At Naylor's we are constantly increasing our manufacturing capacity in order to improve our specials service even further. We can now manufacture any length and any section size in seven working days. We can design the reinforcement to meet a particular strength requirement should our Hi-Spec Range fail to meet the section size or strength requirement, we can provide you with any calculations as soon as an order is placed at no extra cost.

Our Company Representatives are available to come and see you in order to discuss any aspect of our business with you and are able to offer a solution to any on site problem that you may have. All our representatives have not only sales experience but site and practical building experience to offer you a cost effective solution. We also have a Free Technical Helpline that is available to offer a quick and free response to any questions connected with our method or scope of manufacture, and our design



teams are able to complete lintel designs to special fire requirements, prepare schedules and loading calculations for all orders or enquiries.

Although the majority of our work is in prestressed we are also available to manufacture pre-cast units to any shape size or dimension, these include any curved on plan lintels, bridge beams, structural beams, ground beams or anything that requires an increased fire rating above that of our normal fire range or our cutting edge ultra fire range that can achieve a 240 minute fire rating, section dependant.

Prestressed or  
Pre-cast  
it's your choice





# Ultra-Fire Lintels



After months of hard work Naylor Lintels have developed a new and innovative range of lintels that can offer 90 minutes fire rating on a 100mm wide prestressed concrete Lintel and 240 minutes fire protection on 140mm and 215mm wide prestressed concrete Lintels. This will place Naylor Lintels in a unique position as the first Lintel Manufacturer to have developed a lintel that can comply with BS8110 and will solve many problems for architects and engineers alike. The lintels have already been used on developments in Manchester and have been specified on Paradise Street in Liverpool.

They are also attracting interest from EDF Energy and many other architects and engineers who are excited about now having a solution to building design and safety.



Ultra-Fire Spec Range		Ultra 100-6	Ultra 100-9	Ultra 140-9	Ultra 215-9
<b>Load Table</b>		100mm wide walls	100mm wide walls	140mm wide walls	215mm wide walls
The ultimate lintels for the ultimate fire protection					
Unfactored Loads in kN/m					
Fire Resistance Available (mins)		90	90	240	240
Maximum Stock Length Available		2700mm	3600mm	3600mm	3600mm
				Longer lengths available on request	
Length	Clear Span	100x145	100x215	140x215	215x215
900mm	700mm	35.17	79.32	109.50	139.20
1100mm	900mm	22.21	50.57	69.82	88.69
1200mm	1000mm	18.24	41.71	57.57	73.10
1500mm	1200mm	12.90	29.03	40.25	51.21
1800mm	1500mm	8.36	19.32	36.42	33.53
2100mm	1800mm	5.81	13.42	18.57	23.50
2400mm	2100mm	4.23	9.90	13.69	17.27
2700mm	2400mm	3.19	7.57	10.45	13.14
3000mm	2700mm	n/a	5.94	8.19	10.26
3300mm	3000mm	n/a	4.76	6.56	8.17
3600mm	3300mm	n/a	4.17	5.71	7.08
Lintel Weight kg/m		35	53	72	111

All the above products have been awarded patent pending status (PAT-APP 0722871.1)

# Fire-Spec Range



## **Fire-Spec Range**

Naylor Fire-Spec range is our ex-steel mould finish high performance units, they are available in 60, 90 and 120 minutes, dependant upon the section width. Other concrete sections can be made with a fire resistance equal to or greater than our standard range and our technical team with their special knowledge of concrete can advise you on which sections would achieve a specific fire resistance and strength rating and offer a design solution should this not be detailed in our load span tables.

## **Fire-Spec References**

To specify units from this range prefix the Hi-Spec reference with the word 'Fire'.

Example: Fire S5





## **Fair Faced Fire-Spec Range**

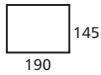
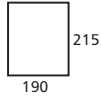

Naylor Fair Faced Fire-Spec lintels are also available in a class C fair faced finish and again with a 60, 90 and 120 minute fire rating.

## **Fair Faced Fire-Spec References**



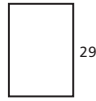
To specify Units from this range prefix the Hi-Spec references with the word 'Faced Fire'

Example: Faced Fire S5

Fire-Spec Range		Fire R3		Fire S5		Fire R8		Fire R11	
<b>Load Table</b> Units suitable for 140mm wide walls									
Unfactored Loads in kN/m									
Maximum Stock Length Available		3000mm		3600mm		3600mm		3600mm	
						Longer lengths available on request.			
Available Range Finish		Faced Colour		Faced Colour		Faced Colour		Faced Colour	
Fire Resistance in minutes		60	90	60	90	60	90	60	90
Length	Clear Span	140x100	140x100	140x140	140x140	140x215	140x215	140x290	140x290
900mm	700mm	40.72	20.92	63.32	44.81	100.57	101.52	128.00	129.32
1100mm	900mm	25.32	12.83	50.50	28.21	80.31	81.07	102.20	103.26
1200mm	1000mm	20.69	10.42	41.89	23.15	72.95	73.64	98.82	93.78
1500mm	1200mm	14.52	7.23	29.81	16.34	62.22	54.98	77.58	78.41
1800mm	1500mm	9.34	4.57	19.49	10.56	41.60	36.33	63.30	63.98
2100mm	1800mm	6.46	3.10	13.67	7.32	29.53	25.69	51.38	47.29
2400mm	2100mm	4.70	2.20	10.07	5.32	21.97	19.05	38.35	35.27
2700mm	2400mm	3.54	1.61	7.68	4.00	16.93	14.63	29.64	27.25
3000mm	2700mm	2.74	1.21	6.03	3.09	13.40	11.55	23.53	21.62
3300mm	3000mm	n/a	n/a	4.83	2.43	10.83	9.30	19.09	17.52
3600mm	3300mm	n/a	n/a	4.20	2.09	9.49	8.13	16.25	14.90
Lintel Weight kg/m		34		47		72		98	

Fire-Spec Range		Fire R2			Fire R190			Fire R13		
<b>Load Table</b> Units suitable for 190mm wide walls  Unfactored Loads in kN/m										
Maximum Stock Length Available		3600mm			3600mm			3600mm		
		Longer lengths available on request.								
Available Range Finish		Faced Colour			Faced Colour			Faced Colour		
Fire Resistance Available (mins)		60	90	120	60	90	120	60	90	120
Length	Clear Span	190x145	190x145	190x145	190x215	190x215	190x215	190x290	190x290	190x290
900mm	700mm	81.86	80.56	62.31	126.49	126.49	127.02	162.20	162.20	162.77
1100mm	900mm	60.78	50.93	39.02	101.00	101.00	101.42	129.49	129.49	129.95
1200mm	1000mm	50.12	41.85	31.94	91.72	91.72	92.11	117.60	117.60	118.02
1500mm	1200mm	35.69	29.65	22.48	70.66	70.66	65.29	97.99	97.99	98.35
1800mm	1500mm	23.34	19.26	14.48	46.87	46.87	43.16	79.77	79.77	72.68
2100mm	1800mm	16.36	13.42	10.01	33.22	33.22	30.51	56.74	56.74	51.66
2400mm	2100mm	12.03	9.82	7.26	24.68	24.68	22.61	42.28	42.28	38.47
2700mm	2400mm	9.17	7.44	5.45	18.98	18.98	17.35	32.63	32.63	29.66
3000mm	2700mm	7.17	5.79	4.20	14.99	14.99	13.67	25.85	25.85	23.48
3300mm	3000mm	5.73	4.59	3.30	12.08	12.08	11.00	20.92	20.92	18.98
3600mm	3300mm	4.98	3.97	2.83	10.56	10.56	9.60	17.77	17.77	16.63
Lintel Weight kg/m		66			98			132		



Fire-Spec Range		Fire R7			Fire S8			Fire R14		
<b>Load Table</b> Units suitable for 215mm wide walls  Unfactored Loads in kN/m										
Maximum Stock Length Available		3600mm			3600mm			3600mm		
		Longer lengths available on request.								
Available Range Finish		Faced Colour			Faced Colour			Faced Colour		
Fire Resistance Available (mins)		60	90	120	60	90	120	60	90	120
Length	Clear Span	215x145	215x145	215x145	215x215	215x215	215x215	215x290	215x290	215x290
900mm	700mm	90.15	85.07	62.99	138.94	138.94	139.44	178.60	178.60	179.07
1100mm	900mm	63.86	53.76	39.41	110.93	110.93	111.33	142.58	142.58	142.96
1200mm	1000mm	52.65	44.17	32.26	92.25	92.25	101.10	129.48	129.48	129.83
1500mm	1200mm	37.48	31.28	22.68	74.26	74.26	68.77	107.73	107.73	108.04
1800mm	1500mm	24.49	20.30	14.58	49.23	49.23	45.44	83.95	83.95	79.64
2100mm	1800mm	17.15	14.13	10.06	34.87	34.87	32.10	59.68	59.68	56.59
2400mm	2100mm	12.60	10.32	7.27	25.89	25.89	23.77	44.45	44.45	42.13
2700mm	2400mm	9.59	7.81	5.44	19.89	19.89	18.22	34.28	34.28	32.47
3000mm	2700mm	7.49	6.07	4.17	15.69	15.69	14.34	27.14	27.14	25.70
3300mm	3000mm	5.97	4.80	3.26	12.63	12.63	11.52	21.94	21.94	20.76
3600mm	3300mm	5.18	4.15	2.78	11.04	11.04	10.05	18.62	18.62	17.61
Lintel Weight kg/m		75			111			150		

# Steel Range (L-Strip)



A range of Steel L-Shaped angle lintels suitable for brick and stone to carry the external leaf.

Available in galvanised (Pregalv G600) and stainless steel grade 304. Other specially designed steel lintels available upon request.

L-Strip Range		LG85 LS85	LG85 Stone LS85 Stone	LG165 LS165	LG165 Stone LS165 Stone	LG215 LS215	LG215 Stone LS215 Stone
<b>Load Table</b> Units suitable for 90mm and 130mm wide walls  Unfactored Loads in kN/m							
Maximum Stock Length Available		2100mm	2100mm	2700mm	2700mm	3600mm	3600mm
		Longer lengths available on request.					
Available Range Finish		Galvanized Stainless Steel	Galvanized Stainless Steel	Galvanized Stainless Steel	Galvanized Stainless Steel	Galvanized Stainless Steel	Galvanized Stainless Steel
Length	Clear Span	90x85	130x85	90x165	130x165	90x215	130x215
900mm	700mm	22.85	22.85	62.10	62.10	32.75	32.75
1100mm	900mm	14.63	14.63	39.75	39.75	20.96	20.96
1200mm	1000mm	12.09	12.09	32.85	32.85	17.32	17.32
1500mm	1200mm	8.02	8.02	21.15	21.15	11.50	11.50
1800mm	1500mm	5.37	5.37	13.25	13.25	7.69	7.69
2100mm	1800mm	3.42	3.42	8.51	8.51	5.51	5.51
2400mm	2100mm	n/a	n/a	5.46	5.46	4.14	4.14
2700mm	2400mm	n/a	n/a	3.54	3.54	3.22	3.22
3000mm	2700mm	n/a	n/a	n/a	n/a	2.58	2.58
3300mm	3000mm	n/a	n/a	n/a	n/a	2.11	2.11
3600mm	3200mm	n/a	n/a	n/a	n/a	1.86	1.86
Lintel Weight kg/m		5		7		9	

# Economy Range



A cost effective fully reversible unit for when you have a standard housing situation or small load situation.

All Economy lintels are suitable for use with L-Strip.

### Finish

An ex-steel mould finish and made from wet cast concrete. May see small air holes on the surface, aggregate and concrete fines to bottom arrises. For use normally in plastered situations. For exposed situations see Fair Faced Range.

### Order/Specification Code

Please see the Economy Load Tables (e.g. ER1, ER2 etc).

### Identification

All Economy Range lintels are marked on one end with yellow paint.

The Economy Range is only manufactured in lengths up to 3m.

Economy Range		ER1	ER2	ER3	ER4	ER6	ER7	ER8
<b>Load Table</b>								
Unfactored Loads in kN/m								
Suitable for Foundation Use		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Available Range Finish		Standard	Standard	Standard	Standard	Standard	Standard	Standard
Length	Clear Span	100x65	100x140	140x65	215x70	140x140	100x215	140x215
900mm	700mm	8.31	30.04	10.08	17.73	36.87	59.38	82.52
1100mm	900mm	5.07	18.80	6.13	10.81	23.06	47.40	56.61
1200mm	1000mm	4.10	15.39	4.96	8.76	18.87	40.95	46.66
1500mm	1200mm	2.83	10.83	3.42	6.04	13.25	28.83	32.81
1800mm	1500mm	1.78	6.97	2.13	3.79	8.51	18.90	21.46
2100mm	1800mm	1.19	4.81	1.42	2.55	5.86	13.27	15.03
2400mm	2100mm	0.84	3.49	0.99	1.79	4.23	9.78	11.04
2700mm	2400mm	n/a	2.61	0.71	1.30	3.15	7.46	8.39
3000mm	2700mm	n/a	2.01	0.52	0.96	2.41	5.85	6.55
Lintel Weight kg/m		16	34	22	34	47	51.6	72

Economy Range		ER1 On Edge 65x100	ER2 On Edge 140x100	ER3 On Edge 65x140	ER4 On Edge 70x215	ER6 On Edge 140x140	ER7 On Edge 215x100	ER8 On Edge 215x140
Length	Clear Span							
900mm	700mm	12.27	22.53	19.85	40.89	36.87	40.97	62.25
1100mm	900mm	7.59	13.91	12.43	31.73	23.06	25.34	38.96
1200mm	1000mm	6.18	11.33	10.18	26.16	18.87	20.65	31.88
1500mm	1200mm	4.31	7.89	7.16	18.42	13.25	14.42	22.42
1800mm	1500mm	2.75	5.02	4.61	12.07	8.51	9.19	14.42
2100mm	1800mm	1.89	3.42	3.18	8.47	5.86	6.30	9.95
2400mm	2100mm	1.35	2.45	2.31	6.24	4.23	4.53	7.20
2700mm	2400mm	n/a	1.80	1.73	4.76	3.15	3.37	5.39
3000mm	2700mm	n/a	1.36	1.33	3.73	2.41	2.57	4.14
Lintel Weight kg/m		17	34	22	34	47	51.6	72

# Padstone Range

Padstones	
Section mm	
100 x 140 x 100	
215 x 140 x 100	
330 x 140 x 100	
440 x 140 x 100	
140 x 140 x 140	
215 x 100 x 215	
215 x 140 x 215	
215 x 190 x 215	
215 x 215 x 215	
300 x 100 x 215	
300 x 140 x 215	
300 x 190 x 215	
300 x 215 x 215	
330 x 100 x 215	
330 x 140 x 215	
330 x 190 x 215	
330 x 215 x 215	
330 x 100 x 290	
330 x 140 x 290	
330 x 190 x 290	
330 x 215 x 290	
440 x 100 x 215	
440 x 140 x 215	
440 x 190 x 215	
440 x 215 x 215	
440 x 100 x 290	
440 x 140 x 290	
440 x 190 x 290	
440 x 215 x 290	

L-Shaped Padstone - Section mm	
215/215 x 100 x 215	
300/300 x 100 x 215	
330/330 x 100 x 215	
440/440 x 100 x 215	
330/330 x 140 x 215	
440/440 x 140 x 215	



A full range of padstones are available with a strength that is a minimum of 50N/mm<sup>2</sup> and are suitable to take special fixing or any other site situations. We have a large range of 29 sections available as standard stock items with an additional 6 L-shaped padstones. Specials can be made also at a competitive price and the quality assures you that the concrete will take any loads placed upon it. Special strength higher than 50N/mm<sup>2</sup> are also available on request.

# COSHH Information

## 1. Identification

*Identification of the Lintel/Preparation and the Company*

### Product Name(s)

1. Naylor Economy
2. Naylor Hi-Spec
3. Naylor Fair Faced
4. Naylor Fire-Spec
5. Naylor Chem-Spec
6. Naylor Padstones
7. Naylor Ultra-Fire
8. Naylor Faced Fire
9. Naylor Colour-Spec

### Company

Naylor Lintels Limited  
Milner Way, Longlands Industrial Estate  
Ossett, West Yorkshire, WF5 9JE

### Telephone

+44 (0) 1924 267286

### Fax

+44 (0) 1924 265674

### 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.
6. 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

Irritating 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 corners 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 eyelids open. Seek medical attention if irritation or symptoms persist.

### Inhalation

Irritating 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 symptoms 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 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 149 FFFP1 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 standards.
- Clothing particular to hands and feet, suitably reinforced footwear and chemical resistant gloves (PVC). Long sleeved garments and long trousers to protect from abrasion.

### Environmental

All waste from cutting should be swept up and also disposed of. Do not allow waste product to enter drains, unused hardened concrete although 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 considerations when handling, carrying and dispensing.

### Lifting

When using mechanical plant only one layer of units should be lifted at any one time and should be supported at both ends. Units should be handled carefully to avoid heavy blows, dropping or reverse bending. Considerations should be given to prevailing weather conditions particularly wind and rain and no lifting should be directly above work areas. Due to the weight of the units a check of the lifting capabilities of the machinery involved should be made to ensure this is not exceeded prior to any lift taking place.

### Storage

Keep in a cool, dry well ventilated area. Stacking should be on a firm level area. With the bearers directly over one another supporting both ends of the units. Examine all units for cracks and damage and if present do not use without referral to Naylor Lintels.

### Transportation

Care should be taken in stacking of the pre cast units relative to their size and weight and should be off loaded on to a firm and 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 manual handling procedures or lifting requirements onto structural sound level bearings. If bricks are used as the support all voids should be filled and cured before the placing of the units.

### Requirements

Lintels should be placed in accordance with the structural drawings and should have adequate length to ensure that adequate end bearing for the length of the unit is available. Bearing should be structurally capable of dealing with load exerted by the unit, and any imposed block, floor and roof load. Blocks should be accurate and square and any cutting should be done using a block/disc cutter. Once units are placed there should be minimal joints between all components. Any fixing into the units should avoid any damage to the steel tendons located inside of the units and the use of shot fixings should be avoided.

## 9. Toxicological Information

### Ground Limetstone, Whiting

Oral Rat LD50 = 5001 mg/kg.

### Acute Toxicity

Inhalation of dust may cause shortness of breath.

### Sensitization

May cause sensitization by skin contact.

### Repeated or prolonged exposure

May cause dermatitis.

# Further Information

Information on other Naylor Group Products may be obtained by **faxing this form** back to Liz Hudston on 01226 794415

## Clayware

Please ✓ tick

- Drainage Design Handbook**
- Denlok** - Microtunnelling Pipes
- Densleeve and Denseal** - Building and Sewers/  
Surface Water Drainage
- Hathernware Pipes** - For Aggressive Environments
- Tiles** - For Sewage Treatment

## Plastics

- Access Box Brochure**
- Land Drain**

## Other Products

- Band-Seal** - Flexible Couplings
- Aqua-Lite** - Linear Drainage
- Garden Pots**

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_ Post Code: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_



**Naylor Industries plc - more than 100 years of production and supply to the Construction Industry**

- Vitrified clay pipe systems for trench and trenchless installation
- Hathernware - Chemical Drainage and Industrial Ceramics
- Band-Seal couplings for the repair of and connections into existing pipelines
- Plastic Land Drainage, Twinwall Ducting Systems and Access Boxes
- Yorkshire Flowerpots, a range of frostproof plant pots



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