

NAYLOR
CONCRETE

Made in the UK

Excellent Construction Products



Fire Resistant Lintel Range

Incorporating
**NEW XtraFire
Range**

tel: 01226 320810 email: lintels@naylor.co.uk web: www.naylor.co.uk



Contents

Fire Resistant Lintel Selector

3

XtraFire Range

4

Ultra-Fire range

5

Fire-Spec & Faced Fire-Spec Ranges

6

7

Technical & Specifications

8

Useful Contacts

Technical Hotline 0800 5424192

Sales Telephone 01226 320810

Sales Fax 01226 320811

www.naylor.co.uk

For brochure downloads & case studies

Specifications@naylor.co.uk

For drawing emails and schedule requests

Technical@naylor.co.uk

For specific requirements and to request technical information

Lintelenquiries@naylor.co.uk

For sales, prices and delivery requirements

Lintelorders@naylor.co.uk

For orders or to request information

Fire Resistant Lintel Selector

Naylor have the solution to all your fire resistant lintel requirements.

Now incorporating NEW XtraFire



		FIRE RATING REQUIREMENT - MINUTES				
		30	60	90	120	240
WIDTH AVAILABLE	100mm	■ Hi-Spec ■ Fair Faced	■ XtraFire	■ XtraFire	■ XtraFire	■ XtraFire
	140mm	■ Hi-Spec ■ Fair Faced	■ Ultra-Fire ■ Fire Spec ■ Faced Fire	■ Ultra-Fire ■ Fire Spec ■ Faced Fire	■ Ultra-Fire	■ Ultra-Fire
	190mm	■ Hi-Spec ■ Fair Faced	■ Fire Spec ■ Faced Fire	■ Fire Spec ■ Faced Fire	■ Fire Spec ■ Faced Fire	
	215mm	■ Hi-Spec ■ Fair Faced	■ Ultra-Fire ■ Fire Spec ■ Faced Fire	■ Ultra-Fire ■ Fire Spec ■ Faced Fire	■ Ultra-Fire ■ Fire Spec ■ Faced Fire	■ Ultra-Fire

10 Reasons

To trust and specify Naylor Prestressed Fire Resistant Lintels

- 1 XtraFire and Ultra-Fire lintels tested by Exova Warrington fire testing facility
- 2 CE Marking - Naylor Lintels meet the requirements of the Construction Products Regulation in relation to declarations of performance and CE Marking. Naylor is in the process of transitioning to UKCA Marking, which will be complete by 1 January 2023.
- 3 Naylor Prestressed Lintels can be cut on site, providing a distinct advantage over other methods of manufacture with the exception of Ultra-Fire
- 4 Quality - Naylor Concrete Products are manufactured, quality controlled and continually assessed to ensure compliance to BS EN ISO 9001:2015
- 5 XtraFire Lintels use cement replacement technology, which uses less than 20% of the energy and produces less than 10% of the CO2 emissions compared to Portland cement production

- 6 Extensive suite of specification tools
 - NBS Source
 - CPD Providers Network
- 7 Member of British Precast having satisfied the qualifying requirements prescribed by the federation
- 8 Supplier member to the BMF (Builders Merchant Federation)
- 9 Associate member of ABC (Association of Brickwork Contractors)
- 10 Technical Advice just a phone call away

XtraFire Range

XtraFire is a single cast lintel which has been independently tested for fire resistance and load bearing capacity by Warrington Fire and Lucideon.

Fire Rating - The XFR6 lintels are fire rated up to R180 minutes for load-bearing and XFR9 lintels are fire rated up to R240 minutes for load bearing. Please contact Naylor Technical for more information on other fire criterion.



Finish - An ex steel mould finish similar to our current fairfaced product made from specialist wet cast concrete. Having pencil round edges but with a possibility of small air holes on the lintel surface.

warringtonfire

LUCIDEON



Key selling points	New XtraFire v's	UltraFire
Solid concrete 1 Part unit. No need for additional coatings	✓	X
Smooth ex steel mould finish	✓	X
Shorter lead times	✓	X
More durable during stocking / storage	✓	X
Can be cut on site. Unlike other methods of manufacture	✓	X
Increased durability over time	✓	X
Can be fixed into on site (liaise with Naylor Technical Department)	✓	X
Can be used in aggressive environments	✓	X
Can be exposed to cyclic wetting/drying	✓	X

XtraFire Range		XFR6	XFR9
		100mm wide walls	100mm wide walls
Load Table For XtraFire Resistance you need XtraFire			
Fire Resistance Available (mins)		R180	R240
Maximum Stock Length Available		2700mm	3600mm
UNFACTORED LOADS IN kN/m			
Length	Clear Span	100x140	100x215
900mm	700mm	29.74	65.73
1200mm	1000mm	15.18	47.67
1500mm	1200mm	10.66	39.41
1800mm	1500mm	6.64	25.10
2100mm	1800mm	4.72	19.40
2400mm	2100mm	3.42	14.40
2700mm	2400mm	2.56	11.07
3000mm	2700mm	1.97	8.74
3300mm	3000mm	1.54	7.05
3600mm	3200mm	0.92	6.17
Lintel Weight kg/m		32	49

Ultra-Fire Range



A range of lintels with an enhanced fire resistance. Due to the special coating applied, all of our lintels can achieve a 240 minute load bearing capability when subject to fire conditions.

Finish




These lintels have a slightly different texture to concrete but are smooth. 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 140-6, Ultra-Fire 140-9, Ultra-Fire 215-9.)



Under no circumstances should the Ultra-Fire Range of Lintels be cut down in sizes due to stooled end bearings.

Ultra-Fire Spec Range		Ultra 140-6	Ultra 140-9	Ultra 215-9
Load Table		140mm wide walls	140mm wide walls	215mm wide walls
The ultimate lintels for the ultimate fire protection				
Fire Resistance Available (mins)		240	240	240
Maximum Stock Length Available		2400mm	3600mm	3600mm
UNFACTORED LOADS IN kN / m				
Length	Clear Span	140x140	140x215	215x215
900mm	700mm	18.35	74.70	117.36
1200mm	1000mm	9.10	54.13	73.10
1500mm	1200mm	6.27	40.25	51.21
1800mm	1500mm	3.91	26.42	33.53
2100mm	1800mm	2.60	18.57	23.50
2400mm	2100mm	n/a	13.69	17.27
2700mm	2400mm	n/a	10.45	13.14
3000mm	2700mm	n/a	8.19	10.26
3300mm	3000mm	n/a	6.56	8.17
3600mm	3200mm	n/a	5.71	7.08
Lintel Weight kg/m		47	72	111

Fire-Spec & Faced Fire-Spec Ranges

Fire-Spec Range

Naylor Fire-Spec collection is our ex-steel mould finish range of high performance units. They are available in 60, 90 and 120 minutes, dependant upon the section width.

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	
Load Table Units suitable for 140mm wide walls									
Maximum Stock Length Available		3000mm		3600mm		3600mm		3600mm	
Available Range Finish		Faced		Faced		Faced		Faced	
Fire Resistance Available (mins)		60	90	60	90	60	90	60	90
UNFACTORED LOADS IN kN/m									
Length	Clear Span	140x100	140x100	140x140	140x140	140x215	140x215	140x290	140x290
900mm	700mm	42.68	17.12	38.81	25.37	113.90	107.27	149.00	143.35
1200mm	1000mm	24.96	9.79	26.62	17.35	66.63	60.54	97.06	93.37
1500mm	1200mm	17.54	6.79	22.92	14.90	52.01	47.75	85.74	81.60
1800mm	1500mm	11.31	4.28	17.55	11.35	39.19	35.86	65.00	61.85
2100mm	1800mm	7.84	2.90	12.26	7.88	29.60	27.02	49.34	46.93
2400mm	2100mm	5.72	2.05	9.00	5.74	22.68	20.66	37.96	36.10
2700mm	2400mm	n/a	1.50	6.85	4.33	17.47	15.87	29.34	27.89
3000mm	2700mm	n/a	n/a	5.36	3.35	13.82	12.53	23.29	22.13
3300mm	3000mm	n/a	n/a	4.28	2.65	11.16	10.11	18.89	17.94
3600mm	3200mm	n/a	n/a	3.72	2.28	9.78	8.84	16.08	15.29
Lintel Weight kg/m		34		47		72		98	

Fire-Spec & Faced Fire-Spec Ranges

Fire-Spec Range		Fire R2			Fire R190			Fire R13		
Load Table Units suitable for 190mm wide walls										
Maximum Stock Length Available		3600mm			3600mm Longer lengths available on request - up to 4800mm			3600mm Longer lengths available on request - up to 4800mm		
Available Range Finish		Faced			Faced			Faced		
Fire Resistance Available (mins)		60	90	120	60	90	120	60	90	120
UNFACTORED LOADS IN kN/m										
Length	Clear Span	190x145	190x145	190x145	190x215	190x215	190x215	190x290	190x290	190x290
900mm	700mm	85.34	70.58	54.60	135.35	131.45	127.62	179.74	173.11	167.65
1200mm	1000mm	51.57	42.15	32.18	71.70	65.73	64.34	117.06	112.73	107.70
1500mm	1200mm	36.74	29.86	22.65	55.66	51.79	52.60	90.25	85.89	81.36
1800mm	1500mm	24.03	19.40	14.59	41.87	38.83	39.33	68.32	65.01	61.56
2100mm	1800mm	16.85	13.52	10.09	31.58	29.20	29.52	51.78	49.25	46.62
2400mm	2100mm	12.39	9.90	7.32	24.14	22.28	22.49	39.77	37.81	35.77
2700mm	2400mm	9.45	7.50	5.50	18.54	17.07	17.22	30.67	29.14	27.56
3000mm	2700mm	7.40	5.84	4.24	14.62	13.44	13.54	24.29	23.07	21.80
3300mm	3000mm	5.92	4.64	3.33	11.78	10.80	10.88	19.64	18.64	17.60
3600mm	3200mm	4.27	3.33	2.37	10.29	9.42	9.49	16.67	15.85	15.05
Lintel Weight kg/m		66			98			132		

Fire-Spec Range		Fire R7			Fire S8			Fire R14		
Load Table Units suitable for 215mm wide walls										
Maximum Stock Length Available		3600mm			3600mm Longer lengths available on request - up to 4800mm			3600mm Longer lengths available on request - up to 4800mm		
Available Range Finish		Faced			Faced			Faced		
Fire Resistance Available (mins)		60	90	120	60	90	120	60	90	120
UNFACTORED LOADS IN kN/m										
Length	Clear Span	215x145	215x145	215x145	215x215	215x215	215x215	215x290	215x290	215x290
900mm	700mm	87.76	76.72	63.08	146.16	142.07	129.49	194.22	187.40	181.55
1200mm	1000mm	53.00	45.80	37.32	73.37	67.30	61.10	121.46	117.52	113.78
1500mm	1200mm	37.74	32.44	26.32	56.93	53.01	48.85	91.75	88.77	85.93
1800mm	1500mm	24.66	21.06	16.99	42.80	39.71	36.46	69.42	67.14	64.98
2100mm	1800mm	17.27	14.67	11.77	32.24	29.83	27.31	52.56	50.83	49.18
2400mm	2100mm	12.69	10.73	8.55	24.62	22.73	20.76	40.33	38.99	37.71
2700mm	2400mm	9.66	8.12	6.43	18.89	17.40	15.84	31.07	30.02	29.02
3000mm	2700mm	7.55	6.32	4.96	14.87	13.67	12.42	24.57	23.73	22.94
3300mm	3000mm	6.02	5.01	3.90	11.96	10.97	9.94	19.84	19.16	18.50
3600mm	3200mm	4.33	3.59	2.78	10.44	9.56	8.64	16.82	16.23	15.81
Lintel Weight kg/m		75			111			150		

Technical Service

Help in specifying our products can be obtained by



Downloading
from NBS Source



Request a
CPD Seminar



Help in specifying our products can be obtained by contacting our technical team.

Advice and guidance can gladly be given for any requirements and applications. Lintel schedules can be provided from working drawings and solutions offered. All proposed lintel schedules are to be checked by the incumbent structural engineer.

Drawings can be emailed directly to:
technical@naylor.co.uk

Or please call our technical hotline on: 0800 5424192

Specification British Standards and Design

The design of Naylor prestressed lintels complies with Eurocode 2 Part 1-1: Design of concrete structures - General rules and rules for buildings.

All Naylor fire rated Lintels produced by Naylor Lintels comply with BSEN1992-1-2:2004 – Classification of fires.

Naylor prestressed lintels conform to BSEN845: Part 2: 2013 + A1:2016 - Specification for ancillary components for masonry lintels.

Materials used in the manufacture of Naylor prestressed lintels comply with BSEN206: 2013 + A2:2021 - Concrete specification performance production and conformity, plus BS8500-1: 2015 – Complementary BS to BSEN206 describing ways of specifying concrete and gives specifiers guidance.

The prestressing wire complies with BS5896: 2012 - High tensile steel wire and strand for the prestressing of concrete.

Naylor prestressed lintels have a low water absorption and as a result of the quality controlled 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 prestressed lintels have a concrete strength of 50 N/mm² and are suitable to accept fixings providing that the tendons contained inside the unit remain undamaged.

Prestressed lintels are likely to display a camber as an inherent property of prestressed elements limited to L/250.

If in doubt . . .

call our **Technical Department**
on **0800 542 4192** or
email: **technical@naylor.co.uk**



Hi-Spec and Fair Faced Lintels



Fire-Spec, Faced Fire and XtraFire Lintels



Padstones



L-Strip Lintels



Precast



Fencing Materials

**Naylor Industries plc -
more than 130 years of
production and supply to
the Construction Industry**

- Vitrified clay pipe systems for trench and trenchless installation
- Thermachem - 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

NAYLOR
CONCRETE

Made in the UK
Excellent Construction Products

**NAYLOR CONCRETE
PRODUCTS LIMITED**

NAYLOR LINTELS DIVISION
WHALEY ROAD, BARUGH GREEN
BARNSELEY
SOUTH YORKSHIRE S75 1HT

TELEPHONE: 01226 320810
FACSIMILE: 01226 320811
EMAIL: LINTELS@NAYLOR.CO.UK
WEB: WWW.NAYLORLINTELS.CO.UK

A Member of the Naylor Group of Companies