Stressline Limited manufactures a wide range of structural building products for domestic and commercial sectors. Stressline is the first choice for builders, contractors & specifiers across the UK because of its ability to deliver high quality products on time and at the right price, ensuring projects are not disrupted and work is completed on time.

Stressline also supply direct to site or through a supply chain of merchants across the country, making sure their products are always highly accessible. Stressline’s customers choose them over other structural product manufacturers because of the promise to always be competitive on price, the mixed order delivery capabilities and the high quality service.

INTRODUCING OUR EXTENDED LINTEL RANGE
Stressline’s in-house technical and manufacturing departments have worked hard to deliver an extended range of steel lintels. The new lintel guide clearly lays out the extended standard range of steel lintels, and for the first time the prestressed concrete lintel range, allowing the customer the utmost flexibility and choice to satisfy their lintel requirements.

STRUCTURAL BUILDING PRODUCTS
This extended steel lintel range perfectly compliments our other structural building products.

We manufacture a complete range of prestressed concrete products in addition to the prestressed concrete lintels; including flooring beams (suitable for concrete or insulation infill), hollowcore flooring, and walling panels. Precast items available include padstones, stairflights and landing slabs, although our extensive design and manufacturing resource enables special projects to be produced cost effectively. Our non-structural range includes fencing, landscape, walling, and decorative cast stone products.
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SERVICE DELIVERY
OUR COMMITMENT TO YOU

SALES & SUPPORT
Our area sales managers and sales technicians are able to assist you with your specification needs. Whether advice is needed for a single lintel, or a comprehensive take off and pricing schedule for a multi dwelling development, our team is here to help.

This brochure and website outline our ranges to assist your selection.

In addition, our unique ability to manufacture a range of structural building components offers the specifier and the buyer a complete solution for structural flooring (both beam and hollowcore), steel and concrete lintels and structural precast products, including padstones, staircases and landings.

Our flexible design and manufacturing facilities enable your “special” lintel requirements to be produced quickly and efficiently.

OUR PRODUCTS
Our comprehensive range of standard steel and concrete lintels offers design capability for all circumstances, designed to the relevant BS EN standards and with the assurance of BS EN ISO 9001:2015 management standard.

The cavity lintel range is supplied with captive insulation to ensure that it is not displaced. The fabricated ranges are manufactured with a proven non-welded method creating a secure connection that has not compromised the galvanised protection.

Our ranges of prestressed concrete lintels are manufactured using machinery and processes designed by our own engineers. This has enabled the maximum strength to section available, whilst producing high volumes of consistent quality products.

DELIVERY
All our products are delivered on flat bed articulated or rigid lorries, with the option of either self offload or crane offload. Depending on the customer’s requirements both steel and concrete lintels are packaged in stock packs or in consignment loads (with the option of house plots and locations marked on the product).

As we are located centrally we are able to supply all our standard products nationally, with delivery typically three to eight working days.

OUR PROMISE
Stressline understand the day-to-day challenges you face on a building site and the importance of working with a supplier you can trust. Our promise is simple – to deliver competitively priced products, on time, to the required specification.

ACCREDITATIONS
Stressline has an on-going commitment to improving both product and management systems;

• BS EN ISO 9001:2015

ENVIRONMENTAL AND SUSTAINABILITY
We recognise our responsibilities to the environment. We are committed to developing, implementing and reviewing our management and operational policies and procedures to minimise our environmental impact. Our integrated management system includes all our compliance policies and achievement targets.

From our ongoing environmental and sustainability commitments we have continued to achieve significant reductions in our impact as manufacturers and distributors. One major environmental benefit shared with our existing customers is the ability to source our complete range of products and for them to be delivered as a mixed load on one vehicle, instead of separate deliveries which creates wasteful and unnecessary movements.

Compliance with European Harmonised Standards and Constructions Product Regulation.

Manufactured to British Standards and under the latest quality management standards.

RIBA approved CPD.

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CAVITY WALL
STANDARD LEAF

APPLICATION
Standard and Heavy Duty (HD and HDX)
Designed to support:
• Masonry loads
• Masonry loads and uniformly distributed timber floor loads
• Uniformly distributed roof loads (in most cases HD lintel type is required)

Extra Heavy Duty (XHD) and Composite Extra Heavy Duty (CXHD)
Designed to support:
• Concrete floor loads
• Attic truss loads
• Point loads: compound trusses, steel beams, etc

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES
For general installation notes please refer to page 66.

Additional installation requirements for Composite Extra Heavy Duty (CXHD) lintels
• Ensure that the inner leaf channel is filled with well cured masonry before work proceeds over. Masonry needs to be built tightly against the vertical section of the channel and a mortar joint added to the top of masonry, so that the loads from units above are spread evenly over the inner flange of the lintel.
• Composite lintels should be adequately propped during construction, at maximum 1.2 metre centres. Props should not be removed until the mortar has cured.

ADVANTAGES
• Easy to install and suitable for a variety of applications
• Galvanised coating ensures durability/longevity
• Built-in plaster key: perforated base plate to inner flange
• Excellent thermal efficiency
• Built-in continuous insulation
• Can be manufactured with wide and short leaf detail.

ABBREVIATIONS
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

If in doubt please contact our technical department on 01455 272457
SL50

100mm outer leaf
50 - 65mm cavity
100 - 115mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL50 HD

100mm outer leaf
50 - 65mm cavity
100 - 115mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL50 CXHD 150

100mm outer leaf
50 - 65mm cavity
100 - 115mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

SL50 CXHD 225

100mm outer leaf
50 - 65mm cavity
100 - 115mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

SL50 HDX

100mm outer leaf
50 - 65mm cavity
100 - 115mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.
### CAVITY 70

**SL70**
- 100mm outer leaf
- 70 - 85mm cavity
- 100 - 115mm inner leaf
- Not suitable to support precast concrete floors, attic trusses, heavy point loads.

**SL70 HD**
- 100mm outer leaf
- 70 - 85mm cavity
- 100 - 115mm inner leaf
- Not suitable to support precast concrete floors, attic trusses, heavy point loads.

**SL70 HDX**
- 100mm outer leaf
- 70 - 85mm cavity
- 100 - 115mm inner leaf
- Not suitable to support precast concrete floors, attic trusses, heavy point loads.

**SL70 XHD 225**
- 100mm outer leaf
- 70 - 85mm cavity
- 100 - 115mm inner leaf
- Suitable to support precast concrete floors, attic trusses, and point loads.

**SL70 CXHD 150**
- 100mm outer leaf
- 70 - 85mm cavity
- 100 - 115mm inner leaf
- Suitable to support precast concrete floors, attic trusses, and point loads.

**SL70 CXHD 225**
- 100mm outer leaf
- 70 - 85mm cavity
- 100 - 115mm inner leaf
- Suitable to support precast concrete floors, attic trusses, and point loads.

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**STANDARD LENGTHS (mm)**

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See additional installation requirements on page 5.
SL90

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL90 HD

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL90 HDX

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL90 XHD 225

Suitable to support precast concrete floors, attic trusses, and point loads.

SL90 CXHD 150

Suitable to support precast concrete floors, attic trusses, and point loads.

SL90 CXHD 225

Suitable to support precast concrete floors, attic trusses, and point loads.

See additional installation requirements on page 5.
### SL110
- **Nominal Height** "h" (mm): 95, 113, 134, 140, 153, 190, 190, 225, 225
- **Weights** (kg/m): 6.9, 7.5, 8.1, 8.3, 8.7, 9.9, 14.8, 16.0, 19.8
- **SWL 1:1/3:1 (kN)**: 16, 17, 22, 23, 24, 28, 28, 28, 28
- **SWL 19:1 (kN)**: 12, 13, 17, 18, 19, 22, 22, 22, 22
- **RM (kNm)**: 2.2, 2.9, 4.5, 5.6, 6.8, 10.0, 13.3, 15.5, 16.2
- **Suitable for**: Not suitable to support precast concrete floors, attic trusses, heavy point loads.

### SL110 HD
- **Nominal Height** "h" (mm): 140, 153, 190, 190, 225, 225, 225
- **Weights** (kg/m): 8.3, 8.7, 9.9, 14.8, 16.0, 16.0, 19.8
- **SWL 1:1/3:1 (kN)**: 42, 40, 41, 41, 41, 35, 33, 33
- **SWL 19:1 (kN)**: 33, 31, 32, 32, 32, 27, 26, 26
- **RM (kNm)**: 5.6, 6.8, 10.0, 13.3, 15.5, 15.5, 16.2
- **Suitable for**: Not suitable to support precast concrete floors, attic trusses, heavy point loads.

### SL110 HDX
- **Nominal Height** "h" (mm): 153, 185, 190, 225, 225
- **Weights** (kg/m): 8.7, 9.8, 14.8, 16.0, 19.8
- **SWL 1:1/3:1 (kN)**: 51, 53, 64, 59, 50
- **SWL 19:1 (kN)**: 40, 41, 50, 46, 39
- **RM (kNm)**: 6.8, 9.0, 13.3, 15.5, 16.2
- **Suitable for**: Not suitable to support precast concrete floors, attic trusses, heavy point loads.

### SL110 XHD 225
- **Nominal Height** "h" (mm): 225
- **Weights** (kg/m): 28.7
- **SWL 5:1 (kN)**: 79
- **SWL 19:1 (kN)**: 66
- **RM (kNm)**: 20.6
- **Suitable for**: Suitable to support precast concrete floors, attic trusses, and point loads.

### SL110 CXHD 150
- **Nominal Height** "h" (mm): 156
- **Weights** (kg/m): 17.9
- **SWL 5:1 (kN)**: 72
- **SWL 19:1 (kN)**: 61
- **RM (kNm)**: 12.6
- **Suitable for**: Suitable to support precast concrete floors, attic trusses, and point loads.

### SL110 CXHD 225
- **Nominal Height** "h" (mm): 236
- **Weights** (kg/m): 21.6
- **SWL 5:1 (kN)**: 89
- **SWL 19:1 (kN)**: 75
- **RM (kNm)**: 21.5
- **Suitable for**: Suitable to support precast concrete floors, attic trusses, and point loads.
SL130

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL130 HD

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL130 HDX

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL130 XHD 225

Suitable to support precast concrete floors, attic trusses, and point loads.

SL130 CXHD 150

Suitable to support precast concrete floors, attic trusses, and point loads.

SL130 CXHD 225

Suitable to support precast concrete floors, attic trusses, and point loads.

See additional installation requirements on page 5.
### Standard Lengths (mm)

<table>
<thead>
<tr>
<th>SL150</th>
<th>SL150 HD</th>
<th>SL150 HDX</th>
<th>SL150 XHD 225</th>
<th>SL150 CXHD 150</th>
<th>SL150 CXHD 225</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>1200</td>
<td>1350</td>
<td>1500</td>
<td>1800</td>
<td>2100</td>
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<td>4050</td>
<td>4200</td>
<td>4300</td>
<td>4800</td>
<td>5100</td>
<td>5100</td>
</tr>
</tbody>
</table>

Lintels are available in increments of 150mm.

### Nominal Height “h” (mm)

<table>
<thead>
<tr>
<th>SL150</th>
<th>SL150 HD</th>
<th>SL150 HDX</th>
<th>SL150 XHD 225</th>
<th>SL150 CXHD 150</th>
<th>SL150 CXHD 225</th>
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<tr>
<td>95</td>
<td>113</td>
<td>134</td>
<td>140</td>
<td>153</td>
<td>190</td>
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<td>13</td>
<td>17</td>
<td>18</td>
<td>19</td>
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<tr>
<td>2.2</td>
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<td>4.5</td>
<td>5.6</td>
<td>6.8</td>
<td>10.0</td>
</tr>
</tbody>
</table>

### Weights (kg/m)

<table>
<thead>
<tr>
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<th>SL150 HD</th>
<th>SL150 HDX</th>
<th>SL150 XHD 225</th>
<th>SL150 CXHD 150</th>
<th>SL150 CXHD 225</th>
</tr>
</thead>
<tbody>
<tr>
<td>100mm outer leaf</td>
<td>150 - 165mm cavity</td>
<td>100 - 115mm inner leaf</td>
<td>Not suitable to support precast concrete floors,</td>
<td>attic trusses, heavy point loads.</td>
<td>Suitable to support precast concrete floors, attic trusses, and point loads.</td>
</tr>
</tbody>
</table>

### SWL 1:1/3:1 (kN)

<table>
<thead>
<tr>
<th>SL150</th>
<th>SL150 HD</th>
<th>SL150 HDX</th>
<th>SL150 XHD 225</th>
<th>SL150 CXHD 150</th>
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<tr>
<td>1.6</td>
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<tr>
<td>2.2</td>
<td>2.3</td>
<td>3.0</td>
<td>3.1</td>
<td>3.2</td>
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<td>2.8</td>
<td>2.9</td>
<td>3.6</td>
<td>3.7</td>
<td>3.8</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### RM (kNm)

<table>
<thead>
<tr>
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<th>SL150 HD</th>
<th>SL150 HDX</th>
<th>SL150 XHD 225</th>
<th>SL150 CXHD 150</th>
<th>SL150 CXHD 225</th>
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</thead>
<tbody>
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<td>1.0</td>
<td>1.0</td>
<td>1.3</td>
<td>1.3</td>
<td>1.5</td>
<td>1.5</td>
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<td>1.5</td>
<td>1.8</td>
<td>1.8</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>1.6</td>
<td>1.5</td>
<td>1.8</td>
<td>1.8</td>
<td>1.5</td>
<td>1.5</td>
</tr>
</tbody>
</table>

See additional installation requirements on page 5.
CAVITY WALL
WIDE INNER LEAF (WIL)

APPLICATION
These lintels are suitable to support a 125-150mm inner leaf of blockwork.

Standard (WIL) and Heavy Duty (HD WIL & HDX WIL)
Designed to support:
• Masonry loads
• Masonry loads and uniformly distributed timber floor loads
• Uniformly distributed roof loads (in most cases HD lintel type is required)

Extra Heavy Duty (XHD WIL) and Composite Extra Heavy Duty (CXHD WIL)
Designed to support:
• Concrete floor loads
• Attic truss loads
• Point loads: compound trusses, steel beams, etc

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES
For general installation notes please refer to page 66.

Additional installation requirements for Composite Extra Heavy Duty (CXHD WIL)
• Ensure that the inner leaf channel is filled with well cured masonry before work proceeds over. Masonry needs to be built tightly against the vertical section of the channel and a mortar joint added to the top of masonry, so that the loads from units above are spread evenly over the inner flange of the lintel.
• Composite lintels should be adequately propped during construction, at maximum 1.2 metre centres. Props should not be removed until the mortar has cured.

ADVANTAGES:
• Easy to install and suitable for a variety of applications
• Galvanised coating ensures durability / longevity
• Built-in plaster key – perforated base plate to inner flange
• Excellent thermal efficiency
• Built-in continuous insulation
• Can be manufactured with a short/reduced outer toe (SOL) to suit a cant brick detail or feature stone head.

ABBREVIATIONS
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

If in doubt please contact our technical department on
01455 272457
SL50 WIL

- Suitable to support precast concrete floors, attic trusses, and point loads.
- Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL50 HD WIL

- Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL50 HDX WIL

- Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL50 XHD 225 WIL

- Suitable to support precast concrete floors, attic trusses, and point loads.

SL50 CXHD 150 WIL

- Suitable to support precast concrete floors, attic trusses, and point loads.

SL50 CXHD 225 WIL

- Suitable to support precast concrete floors, attic trusses, and point loads.

See additional installation requirements on page 12.
SL70 WIL

- 100mm outer leaf
- 70 - 85mm cavity
- 125 - 150mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL70 HD WIL

- 100mm outer leaf
- 70 - 85mm cavity
- 125 - 150mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL70 HDX WIL

- 100mm outer leaf
- 70 - 85mm cavity
- 125 - 150mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL70 XHD 225 WIL

- 100mm outer leaf
- 70 - 85mm cavity
- 125 - 150mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

SL70 CXHD 150 WIL

- 100mm outer leaf
- 70 - 85mm cavity
- 125 - 150mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

SL70 CXHD 225 WIL

- 100mm outer leaf
- 70 - 85mm cavity
- 125 - 150mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

See additional installation requirements on page 12.
CAVITY 90 WIL

100mm outer leaf
90 -105mm cavity
125 -150mm inner leaf

SL90 WIL
Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL90 HD WIL
Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL90 HDX WIL
Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL90 XHD 225 WIL
Suitable to support precast concrete floors, attic trusses, and point loads.

SL90 CXHD 150 WIL
Suitable to support precast concrete floors, attic trusses, and point loads.

SL90 CXHD 225 WIL
Suitable to support precast concrete floors, attic trusses, and point loads.

See additional installation requirements on page 12.

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<table>
<thead>
<tr>
<th><strong>SL110 WIL</strong></th>
<th><strong>SL110 HD WIL</strong></th>
<th><strong>SL110 HDX WIL</strong></th>
<th><strong>SL110 XHD 225 WIL</strong></th>
<th><strong>SL110 CXHD 150 WIL</strong></th>
<th><strong>SL110 CXHD 225 WIL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STANDARD LENGTHS (mm)</strong></td>
<td><strong>STANDARD LENGTHS (mm)</strong></td>
<td><strong>STANDARD LENGTHS (mm)</strong></td>
<td><strong>STANDARD LENGTHS (mm)</strong></td>
<td><strong>STANDARD LENGTHS (mm)</strong></td>
<td><strong>STANDARD LENGTHS (mm)</strong></td>
</tr>
<tr>
<td>600</td>
<td>1200</td>
<td>1350</td>
<td>1500</td>
<td>1650</td>
<td>1800</td>
</tr>
<tr>
<td><strong>Nominal Height “h” (mm)</strong></td>
<td>95</td>
<td>113</td>
<td>134</td>
<td>140</td>
<td>153</td>
</tr>
<tr>
<td><strong>Weights (kg/m)</strong></td>
<td>11.2</td>
<td>12.0</td>
<td>13.0</td>
<td>13.3</td>
<td>13.9</td>
</tr>
<tr>
<td><strong>SWL 19:1 (kN)</strong></td>
<td>20</td>
<td>20</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td><strong>RM (kNm)</strong></td>
<td>3.5</td>
<td>4.5</td>
<td>6.4</td>
<td>7.7</td>
<td>8.8</td>
</tr>
</tbody>
</table>

See additional installation requirements on page 12.
### SL130 WIL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

- **Nominal Height “h” (mm)**: 95, 113, 134, 140, 153, 190, 190, 225, 225
- **Weights (kg/m)**: 11.5, 12.3, 13.3, 13.6, 14.2, 16.0, 16.0, 17.2, 21.5
- **SWL 1:1/3:1 (kN)**: 26, 26, 31, 31, 37, 30, 28, 28
- **SLW 19:1 (kN)**: 20, 20, 24, 24, 29, 23, 22, 22
- **RM (kNm)**: 3.5, 4.5, 6.4, 7.7, 8.8, 13.3, 13.3, 15.5, 16.2

See additional installation requirements on page 12.

### SL130 HD WIL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

- **Nominal Height “h” (mm)**: 140, 153, 190, 225, 225
- **Weights (kg/m)**: 13.6, 14.2, 16.0, 17.2, 21.5
- **SWL 1:1/3:1 (kN)**: 58, 52, 41, 33, 33
- **SWL 19:1 (kN)**: 46, 41, 32, 26, 26
- **RM (kNm)**: 7.7, 8.8, 13.3, 15.5, 16.2

### SL130 HDX WIL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

- **Nominal Height “h” (mm)**: 153, 185, 190, 225, 225
- **Weights (kg/m)**: 14.2, 15.8, 16.0, 17.2, 21.5
- **SWL 1:1/3:1 (kN)**: 51, 53, 64, 59, 50
- **SLW 19:1 (kN)**: 40, 41, 50, 46, 39
- **RM (kNm)**: 8.8, 9.9, 13.3, 15.5, 16.2

### SL130 XHD 225 WIL

Suitable to support precast concrete floors, attic trusses, and point loads.

- **Nominal Height “h” (mm)**: 225, 225, 225, 225, 225
- **Weights (kg/m)**: 20.6, 20.6, 20.6, 20.6
- **SWL 5:1 (kN)**: 72, 60, 49, 41
- **SWL 19:1 (kN)**: 66, 51, 41, 34
- **RM (kNm)**: 20.6, 20.6, 20.6, 20.6

### SL130 CXHD 150 WIL

Suitable to support precast concrete floors, attic trusses, and point loads.

- **Nominal Height “h” (mm)**: 236, 236, 236, 236, 236
- **Weights (kg/m)**: 23.6, 23.6, 23.6, 23.6, 23.6
- **SWL 5:1 (kN)**: 89, 71, 55, 42, 37
- **SWL 19:1 (kN)**: 75, 60, 46, 40, 35
- **RM (kNm)**: 21.5, 21.5, 21.5, 21.5, 21.5

### SL130 CXHD 225 WIL

Suitable to support precast concrete floors, attic trusses, and point loads.

- **Nominal Height “h” (mm)**: 236, 236, 236, 236
- **Weights (kg/m)**: 23.6, 23.6, 23.6, 23.6
- **SWL 5:1 (kN)**: 89, 71, 55, 42, 37
- **SWL 19:1 (kN)**: 75, 60, 46, 40, 35
- **RM (kNm)**: 21.5, 21.5, 21.5, 21.5, 21.5

See additional installation requirements on page 12.
### CAVITY 150 WIL

- **SL150 WIL**
  - 100mm outer leaf
  - 150 - 165mm cavity
  - 125 - 150mm inner leaf
  - Not suitable to support precast concrete floors, attic trusses, heavy point loads.

- **SL150 HD WIL**
  - 100mm outer leaf
  - 150 - 165mm cavity
  - 125 - 150mm inner leaf
  - Not suitable to support precast concrete floors, attic trusses, heavy point loads.

- **SL150 HDX WIL**
  - 100mm outer leaf
  - 150 - 165mm cavity
  - 125 - 150mm inner leaf
  - Not suitable to support precast concrete floors, attic trusses, heavy point loads.

- **SL150 XHD 225 WIL**
  - 100mm outer leaf
  - 150 - 165mm cavity
  - 125 - 150mm inner leaf
  - Suitable to support precast concrete floors, attic trusses, and point loads.

- **SL150 CXHD 150 WIL**
  - 100mm outer leaf
  - 150 - 165mm cavity
  - 125 - 150mm inner leaf
  - Suitable to support precast concrete floors, attic trusses, and point loads.

- **SL150 CXHD 225 WIL**
  - 100mm outer leaf
  - 150 - 165mm cavity
  - 125 - 150mm inner leaf
  - Suitable to support precast concrete floors, attic trusses, and point loads.

---

### STANDARD LENGTHS (mm)

- **SL150 WIL**
  - Lintels are available in increments of 150mm
  - 600
  - 1200
  - 1800
  - 2400
  - 3000
  - 3600
  - 4200

- **SL150 HD WIL**
  - Lintels are available in increments of 150mm
  - 600
  - 1200
  - 1800
  - 2400
  - 3000
  - 3600
  - 4200

- **SL150 HDX WIL**
  - Lintels are available in increments of 150mm
  - 600
  - 1200
  - 1800
  - 2400
  - 3000
  - 3600
  - 4200

- **SL150 XHD 225 WIL**
  - Lintels are available in increments of 150mm
  - 600
  - 1200
  - 1800
  - 2400
  - 3000
  - 3600
  - 4200

- **SL150 CXHD 150 WIL**
  - Lintels are available in increments of 150mm
  - 600
  - 1200
  - 1800
  - 2400
  - 3000
  - 3600
  - 4200

- **SL150 CXHD 225 WIL**
  - Lintels are available in increments of 150mm
  - 600
  - 1200
  - 1800
  - 2400
  - 3000
  - 3600
  - 4200

---

### Nominal Height “h” (mm)

- **SL150 WIL**
  - 95
  - 113
  - 134
  - 140
  - 153
  - 190
  - 190
  - 225

- **SL150 HD WIL**
  - 140
  - 153
  - 190
  - 225

- **SL150 HDX WIL**
  - 153
  - 185
  - 190
  - 225

- **SL150 XHD 225 WIL**
  - 225
  - 225
  - 225

- **SL150 CXHD 150 WIL**
  - 156
  - 156
  - 156

- **SL150 CXHD 225 WIL**
  - 236
  - 236
  - 236

---

### Weights (kg/m)

- **SL150 WIL**
  - 11.8
  - 12.6
  - 13.6
  - 13.9
  - 14.5
  - 16.3
  - 16.3
  - 17.5

- **SL150 HD WIL**
  - 13.9
  - 14.5
  - 16.3
  - 17.5
  - 22.2

- **SL150 HDX WIL**
  - 14.5
  - 16.0
  - 16.3
  - 17.5
  - 22.2

- **SL150 XHD 225 WIL**
  - 32.6
  - 32.6
  - 32.6
  - 32.6

- **SL150 CXHD 150 WIL**
  - 20.8
  - 20.8
  - 20.8

- **SL150 CXHD 225 WIL**
  - 24.5
  - 24.5
  - 24.5
  - 24.5

---

### SWL 1:1/3:1 (kN)

- **SL150 WIL**
  - 26
  - 26
  - 31
  - 31
  - 31
  - 37
  - 30
  - 28
  - 28
  - 28

- **SL150 HD WIL**
  - 58
  - 52
  - 41
  - 33
  - 33

- **SL150 HDX WIL**
  - 66
  - 51
  - 41
  - 34
  - 33

- **SL150 XHD 225 WIL**
  - 79
  - 60
  - 49
  - 41
  - 40

- **SL150 CXHD 150 WIL**
  - 77
  - 8.8
  - 13.3
  - 15.5
  - 16.2

- **SL150 CXHD 225 WIL**
  - 20.6
  - 20.6
  - 20.6
  - 20.6

See additional installation requirements on page 12.
CAVITY WALL
WIDE OUTER LEAF (WOL)

APPLICATION
These lintels are suitable to support a 125-150mm outer leaf of blockwork or stonework.

Standard (WOL) and Heavy Duty (HD WOL & HDX WIL)
Designed to support:
• Masonry loads
• Masonry loads and uniformly distributed timber floor loads
• Uniformly distributed roof loads (in most cases HD lintel type is required)

Extra Heavy Duty (XHD WOL) and Composite Extra Heavy Duty (CXHD WOL)
Designed to support:
• Concrete floor loads
• Attic truss loads
• Point loads: compound trusses, steel beams, etc

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES
For general installation notes please refer to page 66.

Additional installation requirements for Composite Extra Heavy Duty (CXHD WOL)
• Ensure that the inner leaf channel is filled with well cured masonry before work proceeds over. Masonry needs to be built tightly against the vertical section of the channel and a mortar joint added to the top of masonry, so that the loads from units above are spread evenly over the inner flange of the lintel.
• Composite lintels should be adequately propped during construction, at maximum 1.2 metre centres. Props should not be removed until the mortar has cured.

ADVANTAGES
• Easy to install and suitable for a variety of applications
• Galvanised coating ensures durability/longevity
• Built-in plaster key – perforated base plate to inner flange
• Excellent thermal efficiency
• Built-in continuous insulation

ABBREVIATIONS
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

If in doubt please contact our technical department on 01455 272457
### SL50 WOL

- **Nominal Height “h” (mm)**: 95, 113, 134, 140, 153, 190, 190, 190, 225, 225
- **Weights (kg/m)**: 10.2–11.1, 12.1–12.3, 13.0–14.7, 14.7–14.7, 14.7–15.9, 18.3
- **SWL 19:1 (kN)**: 20–24, 20–24, 24, 29, 23, 22, 22, 22
- **RM (kNm)**: 3.5–4.5, 6.4–7.7, 8.8–13.3, 13.3–13.3, 13.3–15.5, 16.2

### SL50 HD WOL

- **Nominal Height “h” (mm)**: 140, 153, 190, 225, 225
- **Weights (kg/m)**: 12.3–14.5, 14.7–15.9, 15.9–15.9
- **SWL 1:1/3.1 (kN)**: 58–64, 58–64, 64
- **SWL 19:1 (kN)**: 46–53, 46–53, 53
- **RM (kNm)**: 8.8–9.9, 13.3–15.5, 15.5–16.2

### SL50 HDX WOL

- **Nominal Height “h” (mm)**: 225
- **Weights (kg/m)**: 27.1–30.1, 27.1–30.1, 30.1
- **SWL 5:1 (kN)**: 79–89, 79–89, 89
- **SWL 19:1 (kN)**: 66–71, 66–71, 71
- **RM (kNm)**: 20.6–21.5, 20.6–21.5, 21.5

### SL50 XHD 225 WOL

- **Nominal Height “h” (mm)**: 225
- **Weights (kg/m)**: 27.1–27.1, 27.1–27.1, 27.1
- **SWL 5:1 (kN)**: 79–89, 79–89, 89
- **SWL 19:1 (kN)**: 66–71, 66–71, 71
- **RM (kNm)**: 20.6–21.5, 20.6–21.5, 21.5

### SL50 CXHD 150 WOL

- **Nominal Height “h” (mm)**: 156
- **Weights (kg/m)**: 16.2–16.2, 16.2–16.2, 16.2
- **SWL 5:1 (kN)**: 72–72, 72–72, 72
- **SWL 19:1 (kN)**: 61–61, 61–61, 61
- **RM (kNm)**: 12.6–12.6, 12.6–12.6, 12.6

### SL50 CXHD 225 WOL

- **Nominal Height “h” (mm)**: 225
- **Weights (kg/m)**: 27.1–27.1, 27.1–27.1, 27.1
- **SWL 5:1 (kN)**: 79–89, 79–89, 89
- **SWL 19:1 (kN)**: 66–71, 66–71, 71
- **RM (kNm)**: 20.6–21.5, 20.6–21.5, 21.5

See additional installation requirements on page 19.
<table>
<thead>
<tr>
<th>Lintels are available in increments of 150mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Height &quot;h&quot; (mm)</td>
</tr>
<tr>
<td>600 1200 1350 1500 1650 1800 1950 2250 2400 2700 3150 3450 3600 3900 4050 4350 4800</td>
</tr>
<tr>
<td>Weights (kg/m)</td>
</tr>
<tr>
<td>125 - 150mm outer leaf 70 - 85mm cavity 100mm inner leaf</td>
</tr>
<tr>
<td>SWL 1:1:3:1 (kN)</td>
</tr>
<tr>
<td>26 26 31 31 31 37 30 28 28 28</td>
</tr>
<tr>
<td>SWL 19:1 (kN)</td>
</tr>
<tr>
<td>20 20 24 24 24 29 23 22 22 22</td>
</tr>
<tr>
<td>RM (kNm)</td>
</tr>
<tr>
<td>7.7 8.8 13.3 15.5 15.5 15.5 16.2</td>
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| Not suitable to support precast concrete floors, attic trusses, heavy point loads. |

<table>
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<th>Standard Lengths (mm)</th>
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<td>Weights (kg/m)</td>
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<tr>
<td>125 - 150mm outer leaf 70 - 85mm cavity 100mm inner leaf</td>
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<tr>
<td>SWL 1:1:3:1 (kN)</td>
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<td>26 26 31 31 31 37 30 28 28 28</td>
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<tr>
<td>SWL 19:1 (kN)</td>
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| Not suitable to support precast concrete floors, attic trusses, heavy point loads. |

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<tr>
<td>Weights (kg/m)</td>
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<td>SWL 1:1:3:1 (kN)</td>
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<td>7.7 8.8 13.3 15.5 15.5 15.5 16.2</td>
</tr>
</tbody>
</table>

| Not suitable to support precast concrete floors, attic trusses, heavy point loads. |
SL90 WOL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL90 HD WOL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL90 XHD 225 WOL

Suitable to support precast concrete floors, attic trusses, point loads.

SL90 CXHD 150 WOL

Suitable to support precast concrete floors, attic trusses, and point loads.

SL90 CXHD 225 WOL

Suitable to support precast concrete floors, attic trusses, and point loads.

STANDARD LENGTHS (mm)

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</tbody>
</table>

Weights (kg/m):

- 125 - 150mm outer leaf
- 90 - 105mm cavity
- 100mm inner leaf

SL90 WOL:

- Nominal Height: 90 - 105mm
- Weights: 10.4 - 11.3 kg/m
- SWL 1:1/3:1: 26 - 31 kN
- SWL 19:1: 20 - 24 kN
- RM (kNm): 3.5 - 6.4

SL90 HD WOL:

- Nominal Height: 90 - 105mm
- Weights: 12.5 - 13.2 kg/m
- SWL 1:1/3:1: 58 - 64 kN
- SWL 19:1: 46 - 54 kN
- RM (kNm): 7.7 - 8.8

SL90 XHD 225 WOL:

- Nominal Height: 90 - 105mm
- Weights: 28.7 - 28.7 kg/m
- SWL 5:1: 79 - 80 kN
- SWL 19:1: 66 - 71 kN
- RM (kNm): 20.6 - 20.6

SL90 CXHD 150 WOL:

- Nominal Height: 90 - 105mm
- Weights: 17.6 - 17.6 kg/m
- SWL 5:1: 72 - 74 kN
- SWL 19:1: 61 - 75 kN
- RM (kNm): 12.6 - 12.6

SL90 CXHD 225 WOL:

- Nominal Height: 90 - 105mm
- Weights: 21.6 - 21.6 kg/m
- SWL 5:1: 89 - 91 kN
- SWL 19:1: 75 - 80 kN
- RM (kNm): 21.5 - 21.5

See additional installation requirements on page 19.
CAVITY 110 WOL

**SL110 WOL**

125 - 150mm outer leaf 110 - 125mm cavity 100mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

**SL110 HD WOL**

125 - 150mm outer leaf 110 - 125mm cavity 100mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

**SL110 HDX WOL**

125 - 150mm outer leaf 110 - 125mm cavity 100mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

**SL110 XHD 225 WOL**

125 - 150mm outer leaf 110 - 125mm cavity 100mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

**SL110 CXHD 150 WOL**

125 - 150mm outer leaf 110 - 125mm cavity 100mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

**SL110 CXHD 225 WOL**

125 - 150mm outer leaf 110 - 125mm cavity 100mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

See additional installation requirements on page 19.

© Stressline Limited 2019
SL130 WOL

125 - 150mm outer leaf
130 - 145mm cavity
100mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL130 HD WOL

125 - 150mm outer leaf
130 - 145mm cavity
100mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL130 HDX WOL

125 - 150mm outer leaf
130 - 145mm cavity
100mm inner leaf

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL130 XHD 225 WOL

125 - 150mm outer leaf
130 - 145mm cavity
100mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

SL130 CXHD 150 WOL

125 - 150mm outer leaf
130 - 145mm cavity
100mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.

SL130 CXHD 225 WOL

125 - 150mm outer leaf
130 - 145mm cavity
100mm inner leaf

Suitable to support precast concrete floors, attic trusses, and point loads.
**SL150 WOL**

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

| STANDARD LENGTHS (mm) | 600 | 1200 | 1350 | 1500 | 1650 | 1800 | 1950 | 2100 | 2250 | 2400 | 2550 | 2700 | 3000 | 3150 | 3450 | 3600 | 3900 | 4050 | 4200 | 4350 | 4800 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Nominal Height “h” (mm) | 95  | 113  | 134  | 140  | 153  | 190  | 190  | 190  | 190  | 190  | 190  | 190  | 225  | 225  |     |     |     |     |     |     |
| Weights (kg/m)         | 11.8| 12.6 | 13.6 | 13.9 | 14.5 | 16.3 | 16.3 | 16.3 | 16.3 | 16.3 | 17.5 | 17.5 | 22.2 |
| SWL 1:3:1 (kN)         | 26  | 26   | 31   | 31   | 31   | 37   | 30   | 28   | 28   | 28   | 28   | 28   | 28   |
| SWL 19:1 (kN)          | 20  | 20   | 24   | 24   | 24   | 29   | 23   | 22   | 22   | 22   | 22   | 22   |
| RM (kNm)               | 3.5 | 4.5  | 6.4  | 7.7  | 8.8  | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 15.5 | 15.5 | 16.2 |

See additional installation requirements on page 19.

**SL150 HD WOL**

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

**SL150 HDX WOL**

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

**SL150 XHD 225 WOL**

Suitable to support precast concrete floors, attic trusses, and point loads.

**SL150 CXHD 150 WOL**

Suitable to support precast concrete floors, attic trusses, and point loads.

**SL150 CXHD 225 WOL**

Suitable to support precast concrete floors, attic trusses, and point loads.

See additional installation requirements on page 19.
CAVITY WALL
SHORT OUTER LEAF (SOL)

APPLICATION
These lintels are suitable to support a 75mm outer leaf of cant brick or 100mm wide decorative head detail. Lintels are available in all profiles for a variety of cavity wall constructions from 50mm to 150mm; please ask our sales office for availability and prices for specific applications.

Standard (SOL) and Heavy Duty (HD SOL & HDX SOL)
These lintels are designed to support:
• Masonry loads
• Masonry loads and uniformly distributed timber floor loads
• Uniformly distributed roof loads (in most cases HD lintel type is required)

Extra Heavy Duty (XHD SOL) and Composite Extra Heavy Duty (CXHD SOL)
These lintels are designed to support:
• Concrete floor loads
• Attic truss loads
• Point loads: compound trusses, steel beams, etc.

ADVANTAGES:
• Easy to install
• Galvanised coating ensures durability/longevity
• Built-in plaster key – perforated base plate to inner flange
• Excellent thermal efficiency
• Built-in continuous insulation

ABBREVIATIONS
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

INSTALLATION NOTES
For general installation notes please refer to page 66.

Additional installation requirements for Composite Extra Heavy Duty (CXHD SOL)
• Ensure that the inner leaf channel is filled with well cured masonry before work proceeds over. Masonry needs to be built tightly against the vertical section of the channel and a mortar joint added to the top of masonry, so that the loads from units above are spread evenly over the inner flange of the lintel.
• Composite lintels should be adequately propped during construction, at maximum 1.2 metre centres. Props should not be removed until the mortar has cured.

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SL50 SOL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL50 HD SOL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL50 HDX SOL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL50 CXHD 150 SOL

Suitable to support precast concrete floors, attic trusses, and point loads.

SL50 CXHD 225 SOL

Suitable to support precast concrete floors, attic trusses, and point loads.
<table>
<thead>
<tr>
<th>SL70 SOL</th>
<th>SL70 HD SOL</th>
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<td><strong>STANDARD LENGTHS (mm)</strong></td>
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© Stressline Limited 2019
### SL90 SOL
- Not suitable to support precast concrete floors, attic trusses, heavy point loads.

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<th>Lengths (mm)</th>
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<th>Weights (kg/m)</th>
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<th>SWL 19:1 (kN)</th>
<th>RM (kNm)</th>
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<td>20 20 24 24 24 29 23 22 22 22</td>
<td>3.5 4.5 6.4 7.7 8.8 13.3 13.3 13.3 15.5 16.2</td>
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### SL90 HD SOL
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<th>SWL 19:1 (kN)</th>
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### SL90 HDX SOL
- Not suitable to support precast concrete floors, attic trusses, heavy point loads.

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<th>SWL 19:1 (kN)</th>
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### SL90 XHD 225 SOL
- Suitable to support precast concrete floors, attic trusses, and point loads.

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### SL90 CXHD 150 SOL
- Suitable to support precast concrete floors, attic trusses, and point loads.

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<th>Lengths (mm)</th>
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<th>SWL 19:1 (kN)</th>
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### SL90 CXHD 225 SOL
- Suitable to support precast concrete floors, attic trusses, and point loads.

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<td>75 60 46 40</td>
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</table>

### STANDARD LENGTHS (mm)
Lintels are available in increments of 150mm.
### SL110 SOL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

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### SL110 HD SOL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

### SL110 HDX SOL

Not suitable to support precast concrete floors, attic trusses, heavy point loads.

### SL110 XHD 225 SOL

Suitable to support precast concrete floors, attic trusses, and point loads.

### SL110 CXHD 150 SOL

Suitable to support precast concrete floors, attic trusses, and point loads.

### SL110 CXHD 225 SOL

Suitable to support precast concrete floors, attic trusses, and point loads.

### Standard Lengths (mm)

Lintels are available in increments of 150mm.

### Nominal Height “h” (mm)

95 113 134 140 153 190 190 190 225 225 225 225 225 225 225 225 225 225

### Weights (kg/m)

9.7 10.6 11.6 11.9 12.5 14.2 14.2 14.2 15.4 15.4 15.4 15.4 15.4 15.4 15.4 15.4 15.4 15.4

### SWL 1:1/3:1 (kN)

26 26 31 31 31 37 30 28 28 28 28 28 28 28 28 28 28 28

### SWL 19:1 (kN)

20 20 24 24 24 29 23 22 22 22 22 22 22 22 22 22 22 22

### RM (kN/m)

3.5 4.5 6.4 7.7 8.8 13.3 13.3 13.3 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5

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CAVITY 130 SOL

SL130 SOL
Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL130 HD SOL
Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL130 HDX SOL
Not suitable to support precast concrete floors, attic trusses, heavy point loads.

SL130 CXHD 150 SOL
Suitable to support precast concrete floors, attic trusses, and point loads.

SL130 CXHD 225 SOL
Suitable to support precast concrete floors, attic trusses, and point loads.

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STANDARD LENGTHS (mm)
Lintels are available in increments of 150mm

<table>
<thead>
<tr>
<th>Lintel Code</th>
<th>600</th>
<th>1200</th>
<th>1800</th>
<th>2400</th>
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<th>130 - 145mm cavity</th>
<th>100mm inner leaf</th>
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<th>130 - 145mm cavity</th>
<th>100mm inner leaf</th>
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<tr>
<td>SL130 CXHD 225 SOL</td>
<td>78 124 98</td>
<td>78 124 98</td>
<td>78 124 98</td>
</tr>
</tbody>
</table>
### SL150 SOL

- **Cavity**: 150 mm
- **Suitability**: Not suitable to support precast concrete floors, attic trusses, heavy point loads.
- **Nominal Height**
  - 95 mm
  - 113 mm
  - 134 mm
  - 140 mm
- **Weights (kg/m)**
  - 10.3
  - 11.2
  - 12.2
  - 12.4
- **SWL 1:1/3:1 (kN)**
  - 26
  - 26
  - 31
  - 31
- **SWL 19:1 (kN)**
  - 20
  - 20
  - 24
  - 24
- **RM (kNm)**
  - 3.5
  - 4.5
  - 6.4
  - 7.7

### SL150 HD SOL

- **Cavity**: 150 mm
- **Suitability**: Not suitable to support precast concrete floors, attic trusses, heavy point loads.
- **Nominal Height**
  - 140 mm
  - 153 mm
  - 190 mm
- **Weights (kg/m)**
  - 12.4
  - 13.1
  - 14.8
  - 16.0
  - 16.0
- **SWL 1:1/3:1 (kN)**
  - 58
  - 52
  - 41
  - 41
  - 35
  - 33
- **RM (kNm)**
  - 7.7
  - 8.8
  - 13.3
  - 15.5

### SL150 HDX SOL

- **Cavity**: 150 mm
- **Suitability**: Not suitable to support precast concrete floors, attic trusses, heavy point loads.
- **Nominal Height**
  - 180 mm
- **Weights (kg/m)**
  - 13.1
  - 14.6
  - 14.8
  - 16.0
  - 16.0
- **SWL 1:1/3:1 (kN)**
  - 51
  - 53
  - 64
  - 59
  - 50
- **RM (kNm)**
  - 8.8
  - 9.9
  - 13.3
  - 15.5

### SL150 XHD 225 SOL

- **Cavity**: 225 mm
- **Suitability**: Suitable to support precast concrete floors, attic trusses, and point loads.
- **Nominal Height**
  - 225 mm
- **Weights (kg/m)**
  - 29.6
  - 29.6
  - 29.6
  - 29.6
  - 29.6
- **SWL 5:1 (kN)**
  - 79
  - 62
  - 53
  - 49
  - 41
- **RM (kNm)**
  - 20.6
  - 20.6
  - 20.6
  - 20.6

### SL150 CXHD 150 SOL

- **Cavity**: 150 mm
- **Suitability**: Suitable to support precast concrete floors, attic trusses, and point loads.
- **Nominal Height**
  - 156 mm
- **Weights (kg/m)**
  - 18.8
  - 18.8
  - 18.8
  - 18.8
- **SWL 5:1 (kN)**
  - 72
  - 62
  - 53
  - 41
- **RM (kNm)**
  - 12.6
  - 12.6
  - 12.6
  - 12.6

### SL150 CXHD 225 SOL

- **Cavity**: 225 mm
- **Suitability**: Suitable to support precast concrete floors, attic trusses, and point loads.
- **Nominal Height**
  - 236 mm
- **Weights (kg/m)**
  - 22.5
  - 22.5
  - 22.5
  - 22.5
- **SWL 5:1 (kN)**
  - 89
  - 71
  - 55
  - 42
  - 37
- **RM (kNm)**
  - 21.5
  - 21.5
  - 21.5
  - 21.5

---

**STANDARD LENGTHS (mm)**
- Lintels are available in increments of 150mm
- **600**
- **1200**
- **1800**
- **2400**
- **3000**
- **3600**
- **4200**
- **4800**

**Nominal Height “h” (mm)**
- 75
- 144
- 98

**Weights (kg/m)**
- 10.3
- 11.2
- 12.2
- 12.4
- 13.1
- 14.8
- 14.8
- 14.8
- 16.0
- 16.0

**SWL 1:1/3:1 (kN)**
- 26
- 26
- 31
- 31
- 31
- 37
- 30
- 28
- 28
- 28

**SWL 19:1 (kN)**
- 20
- 20
- 24
- 24
- 24
- 29
- 23
- 22
- 22
- 22

**RM (kNm)**
- 3.5
- 4.5
- 6.4
- 7.7
- 8.8
- 13.3
- 13.3
- 13.3
- 15.5
- 16.2
ROLLED STEEL SECTIONS

APPLICATION
Rolled Steel (RS) and Rolled Steel Channel (RSC) fabricated lintels are designed for extreme loading conditions:
• Masonry loads
• Concrete floor loads
• Attic truss loads
• Point loads: compound trusses, steel beams, etc

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES
For general installation notes please refer to page 66.

Additional installation requirements for RS and RSC type lintels
• Lintels must be laterally restrained and adequately propped during construction at maximum 1.2 metre centres. Props should not be removed until the mortar has cured.
• Minimum of 200mm bearing is required
• RSC type lintels - channel MUST be filled with masonry before the work proceeds over and needs to be built tightly against the vertical section of the channel using good quality, well bonded mortar joints.

MATERIAL
Lintels are manufactured using 203x133x30kg/m UB or 230x90x32.2kg/m RSC with a 6mm welded bottom plate to BS EN 10025 – 2: 2004 of steel grade S275.

FINISHING
Lintels are coated as standard in a red-oxide paint. However, they can be supplied, at extra cost, with a galvanised finish.

ADVANTAGES
• Available in 50mm increments with a maximum length of 6600mm
• Can suit a variety of cavity wall constructions

ABBREVIATIONS
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

If in doubt please contact our technical department on
01455 272457

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### SL50/RS

- **Nominal Height** “h” (mm): 213
- **Weights (kg/m)**: 41.3
- **SWL 5:1/19:1 (kN)**: 82
- **RM (kNm)**: 50.0

Lintels are available in increments of 50mm.

See additional installation requirements on page 33.

### SL70/RS

- **Nominal Height** “h” (mm): 213
- **Weights (kg/m)**: 42.2
- **SWL 5:1/19:1 (kN)**: 82
- **RM (kNm)**: 50.0

Lintels are available in increments of 50mm.

See additional installation requirements on page 33.

### SL90/RS

- **Nominal Height** “h” (mm): 213
- **Weights (kg/m)**: 43.2
- **SWL 5:1/19:1 (kN)**: 82
- **RM (kNm)**: 50.0

Lintels are available in increments of 50mm.

See additional installation requirements on page 33.

### SL110/RS

- **Nominal Height** “h” (mm): 213
- **Weights (kg/m)**: 44.1
- **SWL 5:1/19:1 (kN)**: 82
- **RM (kNm)**: 50.0

Lintels are available in increments of 50mm.

See additional installation requirements on page 33.

### SL130/RS

- **Nominal Height** “h” (mm): 213
- **Weights (kg/m)**: 45.1
- **SWL 5:1/19:1 (kN)**: 82
- **RM (kNm)**: 50.0

Lintels are available in increments of 50mm.

See additional installation requirements on page 33.

### SL150/RS

- **Nominal Height** “h” (mm): 213
- **Weights (kg/m)**: 46.0
- **SWL 5:1/19:1 (kN)**: 82
- **RM (kNm)**: 50.0

Lintels are available in increments of 50mm.

See additional installation requirements on page 33.
ROLLED STEEL SECTIONS

SL70/RSC

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See additional installation requirements on page 33.

SL90/RSC

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See additional installation requirements on page 33.

SL110/RSC

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See additional installation requirements on page 33.

SL130/RSC

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See additional installation requirements on page 33.

SL150/RSC

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</table>

See additional installation requirements on page 33.
CLOSED EAVES

APPLICATION
Open Back Lintel (E)
Designed to support:
• Standard truss roof loads

Heavy Duty Box Section Lintel (E HD and E XHD)
Designed to support:
• Attic trusses
• Compound trusses

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES
For general installation notes please refer to page 66.

Open Back Eaves Lintels must be built in with a course of blockwork positioned tightly against the up-stand of the lintel and a continuous timber wall plate as shown in the illustration.

ABBREVIATIONS
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

If in doubt please contact our technical department on 01455 272457

ADVANTAGES
• Available in 150mm increments
• The curtain brackets on Open Back Eaves Lintels can be easily fixed without the need of timber battens
• Loads on eaves HD and HDX type lintels can be applied directly to the box section, without the aid of another course of blockwork
• Can suit a variety of cavity wall constructions
• Built-in plaster key – perforated base plate to inner flange
• Excellent thermal efficiency provided by the continuous insulation
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<th>1350</th>
<th>1800</th>
<th>2250</th>
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See additional installation requirements on page 36.

<table>
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<tr>
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<tr>
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<tr>
<td>RM (kNm)</td>
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See additional installation requirements on page 36.

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See additional installation requirements on page 36.
### SL90/E

- **Nominal Height “h” (mm)**: 153, 153, 153, 153, 153
- **Weights (kg/m)**: 7.5, 11.1, 11.1, 11.1, 11.1
- **SWL 19:1 kN**: 27, 25, 20, 17, 15
- **RM (kNm)**: 3.6, 4.8, 4.8, 4.8, 4.8

**Note**: See additional installation requirements on page 36.

### SL90/E HD

- **Nominal Height “h” (mm)**: 150, 150, 150, 150, 150
- **Weights (kg/m)**: 10.5, 10.5, 10.5, 10.5, 10.5
- **SWL 19:1 kN**: 46, 38, 32, 28, 24
- **RM (kNm)**: 7.8, 7.8, 7.8, 7.8, 7.8

**Note**: See additional installation requirements on page 36.

### SL90/E XHD

- **Nominal Height “h” (mm)**: 150, 150, 150, 150, 150
- **Weights (kg/m)**: 15.6, 15.6, 15.6, 15.6, 15.6
- **SWL 19:1 kN**: 54, 45, 38, 33, 29
- **RM (kNm)**: 9.2, 9.2, 9.2, 9.2, 9.2

**Note**: See additional installation requirements on page 36.

### SL90/E WIL

- **Nominal Height “h” (mm)**: 153, 153, 153, 153, 153
- **Weights (kg/m)**: 8.1, 12.0, 12.0, 12.0, 12.0
- **SWL 19:1 kN**: 27, 25, 20, 17, 15
- **RM (kNm)**: 3.6, 4.8, 4.8, 4.8, 4.8

**Note**: See additional installation requirements on page 36.

### SL90/E HD WIL

- **Nominal Height “h” (mm)**: 150, 150, 150, 150, 150
- **Weights (kg/m)**: 11.3, 11.3, 11.3, 11.3, 11.3
- **SWL 19:1 kN**: 46, 38, 32, 28, 24
- **RM (kNm)**: 7.8, 7.8, 7.8, 7.8, 7.8

**Note**: See additional installation requirements on page 36.

### SL90/E XHD WIL

- **Nominal Height “h” (mm)**: 150, 150, 150, 150, 150
- **Weights (kg/m)**: 17.0, 17.0, 17.0, 17.0, 17.0
- **SWL 19:1 kN**: 54, 45, 38, 33, 29
- **RM (kNm)**: 9.2, 9.2, 9.2, 9.2, 9.2

**Note**: See additional installation requirements on page 36.
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See additional installation requirements on page 36.

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See additional installation requirements on page 36.

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See additional installation requirements on page 36.
APPLICATION
Timber Frame Lintels (TF) are designed for use in timber frame construction and are intended to support the outer leaf of masonry only, generally brickwork.

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES
For general installation notes please refer to page 66.

Additional installation requirements for (TF) type lintels
• To avoid excessive deflection and possible twisting, lintels should be secured laterally with restraining clips and should be adequately propped during construction at maximum 1.2 meter centres. Props can be removed after the mortar has cured.
• A tight fitting timber batten (supplied by others) should be placed at mid span to help prevent any lateral deflection.
• Restraining clips to be spaced at maximum 500mm centres, starting from mid span. Clips must be nailed to the timber frame.

ADVANTAGES
• Easy to install and suitable for a variety of cavity walls
• Can be manufactured to suit Wide Outer Leaf (WOL) or Short Outer Leaf (SOL)
• Galvanised coating ensures durability/longevity
• Supplied with appropriate number of restraining clips

ABBREVIATIONS
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

If in doubt please contact our technical department on 01455 272457
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See additional installation requirements on page 40.

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See additional installation requirements on page 40.

### STANDARD LENGTHS (mm)

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<td>11.0</td>
<td>12.0</td>
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</tr>
</tbody>
</table>

See additional installation requirements on page 40.
APPLICATION

Meter Box (MB), Tray (TR) and Channel (CH)
Designed to support:
• 100mm external leaf solid blockwork
• 102mm external leaf brickwork

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES

For general installation notes please refer to page 66.

Additional installation requirements for (MB), (TR) and (CH) type lintels
• To avoid excessive deflection and possible twisting, lintels should be adequately propped during construction at maximum 1.2 metre centres. Props can be removed after the mortar has cured.
• To achieve stated loading figures, Channel Lintels (CH) MUST be filled with well cured masonry before work proceeds over.

ADVANTAGES

• Easy to install
• Suitable for faced brick/block walls
• Can be manufactured with a short/reduced outer toe (SOL) to suit a cant brick detail or feature stone head.
• Can be manufactured to suit a wide outer leaf (WOL), e.g. 125-150mm blockwork or stonework.
• Galvanised coating ensures durability/longevity

ABBREVIATIONS

UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

If in doubt please contact our technical department on 01455 272457
### SL100 MB

<table>
<thead>
<tr>
<th>Nominal Height “h” (mm)</th>
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Weights [kg/m]

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SWL (kN)

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<td>4</td>
<td>5</td>
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RM (kNm)

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<td>0.6</td>
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</table>

See additional installation requirements on page 42.

### SL100 TR

| Nominal Height “h” (mm) | 600 | 1500 | 1650 | 1800 | 1950 | 2100 | 2250 | 2300 | 2400 | 2550 | 2700 | 2850 | 2950 | 3100 | 3150 | 3300 | 3450 | 3600 | 3750 | 3900 |
|-------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 115                     | 115 | 165  | 225  | 225  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Weights [kg/m]

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</thead>
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SWL (kN)

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<th>1800</th>
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RM (kNm)

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See additional installation requirements on page 42.

### SL100 CH 150

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Weights [kg/m]

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<th>1650</th>
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SWL (kN)

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RM (kNm)

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See additional installation requirements on page 42.

### SL100 CH 225

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Weights [kg/m]

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<th>1800</th>
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<th>3900</th>
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SWL (kN)

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</table>

RM (kNm)

<table>
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<tr>
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<th>1800</th>
<th>2025</th>
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</table>

See additional installation requirements on page 42.
INTERNAL SOLID WALL

APPLICATION
Galvanised steel box lintels are designed for use in internal 75mm, 100mm wide or 140-150mm wide, non-load bearing and load bearing walls. Designed to support:
• Concrete floor loads
• Masonry loads, timber floor joists and/or roof trusses
• Attic truss loads
• Point loads: compound trusses, steel beams, etc

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES
For general installation notes please refer to page 66.

ADVANTAGES
• Easy to install
• Suitable for 75mm, 100mm wide or 140-150mm wide walls
• Can be supplied insulated for use at eaves level at additional cost
• Galvanised coating ensures durability/longevity
• Built-in plaster key – perforated plate to base and two sides
• Suitable for use under various loading conditions

ABBREVIATIONS
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

If in doubt please contact our technical department on 01455 272457

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### STD75 BOX
- **Light Duty**
- Nominal Height “h” (mm): 80
- Weights (kg/m): 5.3
- SWL (kN): 16
- RM (kN/m): 2.7

See additional installation requirements on page 44.

### STD100 BOX
- **Standard Duty**
- Nominal Height “h” (mm):
  - 80
  - 80
- Weights (kg/m):
  - 5.3
  - 5.3
- SWL (kN):
  - 16
  - 11
- RM (kN/m):
  - 2.7
  - 2.7

See additional installation requirements on page 44.

### STD100 BOX HD
- **Heavy Duty**
- Nominal Height “h” (mm):
  - 108
  - 150
  - 150
  - 150
  - 225
  - 225
  - 225
- Weights (kg/m):
  - 6.8
  - 8.3
  - 8.3
  - 8.3
  - 15.9
  - 15.9
  - 15.9
- SWL (kN):
  - 24
  - 30
  - 28
  - 24
  - 35
  - 30
  - 29
- RM (kN/m):
  - 4.1
  - 7.8
  - 7.8
  - 7.8
  - 15.5
  - 15.5
  - 15.5

See additional installation requirements on page 44.

### STD100 BOX XHD
- **Extra Heavy Duty**
- Nominal Height “h” (mm): 225
- Weights (kg/m): 19.9
- SWL (kN): 70
- RM (kN/m): 23.3

See additional installation requirements on page 44.
SL140 BOX

**STANDARD LENGTHS (mm)**

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**Nominal Height “h” (mm)**

- 150
- 225
- 225
- 225
- 225

**Weights (kg/m)**

- 9.7
- 9.7
- 9.7
- 9.7
- 18.0
- 18.0
- 18.0
- 18.0
- 18.0
- 18.0

**SWL (kN)**

- 50
- 35
- 30
- 26
- 46
- 42

**RM (kNm)**

- 8.6
- 8.6
- 8.6
- 8.6
- 17.2
- 17.2

See additional installation requirements on page 44.

SL140 BOX HD

**STANDARD LENGTHS (mm)**

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</table>

**Nominal Height “h” (mm)**

- 225
- 225
- 225
- 225
- 225
- 225
- 225

**Weights (kg/m)**

- 14.5
- 18.0
- 18.0
- 22.0
- 22.0

**SWL (kN)**

- 60
- 60
- 54
- 55
- 43

**RM (kNm)**

- 10.1
- 17.2
- 17.2
- 25.0
- 25.0

See additional installation requirements on page 44.

SL140 BOX XHD

**STANDARD LENGTHS (mm)**

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<tr>
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</table>

**Nominal Height “h” (mm)**

- 225
- 225
- 225

**Weights (kg/m)**

- 1.1
- 1.1
- 1.1

**SWL (kN)**

- 5
- 7
- 7

**RM (kNm)**

- 7
- 7
- 7

See additional installation requirements on page 44.

SL75 INT

**STANDARD LENGTHS (mm)**

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<td>28</td>
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</tbody>
</table>

**Nominal Height “h” (mm)**

- 28
- 28
- 28

**Weights (kg/m)**

- 1.2
- 1.2
- 1.2

**SWL (kN)**

- 5
- 5
- 5

**RM (kNm)**

- 7
- 7
- 7

See additional installation requirements on page 44.

SL100 INT

**STANDARD LENGTHS (mm)**

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</table>

**Nominal Height “h” (mm)**

- 28
- 28
- 28

**Weights (kg/m)**

- 1.2
- 1.2
- 1.2

**SWL (kN)**

- 5
- 5
- 5

**RM (kNm)**

- 7
- 7
- 7

See additional installation requirements on page 44.
**APPLICATION**

Galvanised steel box lintels are designed for use in 200-215mm solid walls and are available in three different designs: box with a lip/toe (SL200 BOX), inverted ‘T’ section (SL200 T) or back to back channel (SL200 CH).

Designed to support:
- Concrete floor loads
- Tile hanging
- Masonry loads
- Timber floor joists
- Attic truss loads and/or roof trusses
- Point loads: compound trusses, steel beams, etc.
- SL200 BOX is designed to support 19:1 load ratio
- SL200 CH and SL200 ‘T’ are designed to support 1:1 load ratio

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

**INSTALLATION NOTES**

For general installation notes please refer to page 66.

Additional installation requirements for SL200 CH and SL200 ‘T’ type lintels:
- To avoid excessive deflection and possible twisting, lintels should be adequately propped during construction at maximum 1.2 metre centres. Props should only be removed after the mortar has cured.
- To achieve stated loading figures, SL200 CH lintels MUST be filled with well cured masonry before work proceeds over.

**ADVANTAGES**

• Easy to install
• Inverted ‘T’ and back to back channel sections can be used to carry fair facing brick walls on both sides
• Can be used in tile-hanging external walls
• Galvanised coating ensures durability/longevity
• Suitable for use under various loading conditions

**ABBREVIATIONS**

UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)
SWL – Safe Working Load

If in doubt please contact our technical department on 01455 272457
SL200 BOX

Standard Duty

- **Nominal Height “h” (mm)**: 150, 150, 225, 225, 225, 225, 225, 225
- **Weights (kg/m)**: 9.9, 14.8, 18.8, 18.8, 18.8, 18.8, 18.8
- **SWL 19:1 (kN)**: 37, 29, 52, 47, 40, 35, 32, 29
- **RM (kNm)**: 6.4, 9.2, 18.5, 18.5, 18.5, 18.5

See additional installation requirements on page 47.

SL200 BOX HD

Heavy Duty

- **Nominal Height “h” (mm)**: 150, 225, 225
- **Weights (kg/m)**: 14.8, 18.8, 18.8
- **SWL 19:1 (kN)**: 55, 65, 58
- **RM (kNm)**: 9.2, 18.5, 18.5

See additional installation requirements on page 47.

SL200 ‘T’

Standard Duty

- **Nominal Height “h” (mm)**: 75, 95, 175, 175
- **Weights (kg/m)**: 7.7, 8.7, 12.5, 12.5
- **SWL 1:1 (kN)**: 12, 12, 24, 22
- **RM (kNm)**: 1.9, 2.5, 4.2, 4.2

See additional installation requirements on page 47.

SL200 CH

Heavy Duty

- **Nominal Height “h” (mm)**: 231, 231, 231, 231, 231, 231, 231, 231
- **Weights (kg/m)**: 17.6, 17.6, 17.6, 17.6, 17.6, 17.6, 17.6
- **SWL 1:1 (kN)**: 90, 80, 67, 53, 50, 35
- **RM (kNm)**: 19.0, 19.0, 19.0, 19.0, 19.0, 19.0

See additional installation requirements on page 47.
APPLICATION
Designed to support:
- Masonry loads
- Uniformly distributed timber floor loads
- Uniformly distributed roof loads
- Concrete floor loads
- Attic truss loads
- Point loads: compound trusses, steel beams, etc

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES
For general installation notes please refer to page 67.

Additional installation requirements for lintels supporting concrete floor units
- Check that the correct lintel has been installed.
- Minimum recommended lintel depth is 140mm in order to absorb the shock loading of concrete floor. Precast flooring units should be laid on a mortar bed across the whole wall width and should not be dragged over supports.

ADVANTAGES
- A cost effective range of lintels, most of which are reversible
- Easy to install and suitable for a variety of applications: internal partitions, external cavity walls, garages, over services.
- We offer a wide range of lintels from 100 x 65 through to 215 x 140.
- If required, Stressline can schedule and deliver in house plots.

IMPORTANT NOTES
- The loading figures published in the load-span tables represent the Uniform Distributed Serviceable Load (UDL) in kN/m which can be supported by the lintel without the provision of structural brickwork/blockwork over. This is known as Independent Design.
- Lintel lengths shown greyed out within the load-span table are available in longer lengths than the maximum clear span would normally allow. These longer lengths lintels should be used over a series of openings (with intermediate supports) NOT exceeding the maximum clear span and NOT simply supported at each end (i.e. all 65mm deep lintels must not clear span more than 1800mm).

ABBREVIATIONS:
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)

If in doubt please contact our technical department on 01455 272457
**Prestressed Concrete Standard**

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*UDL is restricted by shear
Minimum manufactured length is 450mm
Maximum manufactured length is 3000mm

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### Prestressed Concrete Standard

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*UDL is restricted by shear*  
Minimum manufactured length is 900mm  
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© Stressline Limited 2019
PRESTRESSED CONCRETE
HIGH-STRENGTH

APPLICATION
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• Easy to install and suitable for a variety of applications: internal partitions, external cavity walls, garages, over services.
• We offer a wide range of lintels from 100 x 70 through to 215 x 215.
• If required, Stressline can schedule and deliver in house plots.

IMPORTANT NOTES
• The loading figures published in the load-span tables represent the Uniform Distributed Serviceable Load (UDL) in kN/m which can be supported by the lintel without the provision of structural brickwork/blackwork over. This is known as Independent Design.
• Lintel lengths shown greyed out within the load-span table are available in longer lengths than the maximum clear span would normally allow. These longer lengths lintels should be used over a series of openings (with intermediate supports) NOT exceeding the maximum clear span and NOT simply supported at each end (i.e. all 70mm deep lintels must not clear span more than 1800mm).
• Lintels are marked TOP and must be used in the correct orientation

ABBREVIATIONS:
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)

If in doubt please contact our technical department on 01455 272457

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### PreStressed Concrete High-Strength

**Standard 900 1200 1350 1500 1800 2100 2400 (mm)**

<table>
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<tr>
<th>Clear Span (mm)</th>
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*UDL is restricted by shear  
Minimum manufactured length is 900mm  
Maximum manufactured length is 2400mm

**Standard 900 1200 1350 1500 1650 1800 2100 2400 2700 3000 (mm)**

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*UDL is restricted by shear  
Minimum manufactured length is 900mm  
Maximum manufactured length is 3000mm

**Standard 900 1200 1350 1500 1650 1800 2100 2400 2700 3000 3300 3600 4050 4200 (mm)**

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*UDL is restricted by shear  
Minimum manufactured length is 900mm  
Maximum manufactured length is 4200mm

**Standard 900 1200 1350 1500 1650 1800 2100 2400 2700 3000 3300 3600 4050 4200 (mm)**

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*UDL is restricted by shear  
Minimum manufactured length is 900mm  
Maximum manufactured length is 4200mm

**Standard 900 1200 1350 1500 1650 1800 2100 2400 2700 3000 3300 3600 4050 4200 (mm)**

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*UDL is restricted by shear  
Minimum manufactured length is 900mm  
Maximum manufactured length is 2400mm

**Standard 900 1200 1350 1500 1650 1800 2100 2400 2700 3000 3300 3600 4050 4200 (mm)**

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*UDL is restricted by shear  
Minimum manufactured length is 900mm  
Maximum manufactured length is 3000mm

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*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 4200mm

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*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 4200mm

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*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 2400mm

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*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 4200mm

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</table>

*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 4200mm

© Stressline Limited 2019
APPLICATION
This type of lintel is specifically used in fair faced block/brick walls. It can be painted if required. Designed to support:
• Masonry loads
• Uniformly distributed timber floor loads
• Uniformly distributed roof loads
• Concrete floor loads
• Attic truss loads
• Point loads: compound trusses, steel beams, etc

ALWAYS CHECK LOADINGS AGAINST OUR LOAD-SPAN TABLE

INSTALLATION NOTES
For general installation notes please refer to page 67.

Additional installation requirements for lintels supporting concrete floor units
• Check that the correct lintel has been installed.
• Minimum recommended lintel depth is 140mm in order to absorb the shock loading of concrete floor. Precast flooring units should be laid on a mortar bed across the whole wall width and should not be dragged over supports.

ADVANTAGES
• A cost effective, high performance range of lintels with a smooth fair faced finish
• We offer a wide range of lintels from 100 x 110 through to 215 x 215 with further sections available in the near future.
• If required, Stressline can schedule and deliver in house plots.

IMPORTANT NOTES
• The loading figures published in the load-span tables represent the Uniform Distributed Serviceable Load (UDL) in kN/m which can be supported by the lintel without the provision of structural brickwork/blockwork over. This is known as Independent Design.
• Lintels are marked TOP and must be used in the correct orientation

ABBREVIATIONS
UDL – Uniform Distributed Load (Serviceable)
RM – Resistance Moment (Serviceable)

If in doubt please contact our technical department on 01455 272457
## Prestressed Concrete Fair Faced

### 100 x 110 Fair Faced

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*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 3000mm

### 100 x 140 Fair Faced

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*UDL is restricted by shear
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### 100 x 215 Fair Faced

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*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 4200mm

### 140 x 100 Fair Faced

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*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 3000mm

### 140 x 140 Fair Faced

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*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 4200mm

### 140 x 215 Fair Faced

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*UDL is restricted by shear
Minimum manufactured length is 900mm  Maximum manufactured length is 4200mm

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© Stressline Limited 2019
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</table>

*UDL is restricted by shear
Minimum manufactured length is 900mm Maximum manufactured length is 4200mm
**APPLICATION**

White Arch Formers are used over openings in external walls and provide a low cost solution to help form low rise (75mm and 150mm) brick arches. The facia is formed from UV stable polymer.

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<thead>
<tr>
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<th>Arch rise (mm)</th>
<th>Arch Length (mm)</th>
<th>Clear span (mm)</th>
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</thead>
<tbody>
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<td>75</td>
<td>475</td>
<td>450-500</td>
</tr>
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<td>655-705</td>
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<td>2400-2450</td>
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SPECIALS

APPLICATION
Stressline Special Lintels are designed and manufactured to suit the most innovative of window designs and styles including:
- Semi-circular arch
- Segmental arch
- Parabolic arch
- Gothic arch
- Venetian arch
- Apex lintel
- Corner lintel
- Splayed bay lintel
- Square bay lintels

INSTALLATION NOTES
For general installation notes please refer to page 66.

ADVANTAGES
- Easy to install and suitable for a variety of applications
- Galvanised coating ensures durability/longevity
- Built-in plaster key – perforated base plate to inner flange
- Excellent thermal efficiency
- Available for solid wall construction
- Corner lintels and bay lintels can be supplied with corner posts

INFORMATION REQUIREMENTS
To enable us to provide a quick and cost effective service, please provide our Technical Office with all the relevant information regarding: wall construction (inner leaf, cavity width, outer leaf), structural opening (clear span), arch rise or radius, loadings supported by the lintel (i.e. masonry loads, floor/roof loads).

Please refer to forms overleaf.

If in doubt please contact our technical department on 01455 272457
<table>
<thead>
<tr>
<th>Lintel Type</th>
<th>Linetl Dimensions</th>
<th>Wall Construction</th>
<th>Plaster Key Requirements</th>
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<td>Radius (R)</td>
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Enquiries for Special lintels should be faxed to 01455 274564
### Specials

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**PLASTER KEY REQUIREMENTS**

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### Linetl Dimensions

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<th>PLASTER KEY REQUIREMENTS</th>
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</tr>
<tr>
<td>Height of rise (H)</td>
<td>Cavity width</td>
<td>Both sides</td>
</tr>
<tr>
<td>End bearing (B)</td>
<td>Inner leaf</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>mm</th>
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<tbody>
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### Lintel Dimensions

<table>
<thead>
<tr>
<th>LINETL DIMENSIONS</th>
<th>WALL CONSTRUCTION</th>
<th>PLASTER KEY REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Clear span (A1)</td>
<td>Outer leaf</td>
<td>Inside onlyplease tick</td>
</tr>
<tr>
<td>Arch Span (A2)</td>
<td>Cavity width</td>
<td>Both sides</td>
</tr>
<tr>
<td>Radius (R)</td>
<td>Inner leaf</td>
<td>None</td>
</tr>
<tr>
<td>End Bearing (B)</td>
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<table>
<thead>
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<table>
<thead>
<tr>
<th>LINETL DIMENSIONS</th>
<th>WALL CONSTRUCTION</th>
<th>PLASTER KEY REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear span (A)</td>
<td>Outer leaf</td>
<td>Inside onlyplease tick</td>
</tr>
<tr>
<td>Height of rise (H)</td>
<td>Cavity width</td>
<td>Both sides</td>
</tr>
<tr>
<td>End bearing (B)</td>
<td>Inner leaf</td>
<td>None</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>mm</th>
<th>mm</th>
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### Customer Details

<table>
<thead>
<tr>
<th>Full Name</th>
<th>Company Name</th>
</tr>
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<table>
<thead>
<tr>
<th>Job reference/Site address</th>
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</table>

<table>
<thead>
<tr>
<th>Address</th>
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<table>
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<tr>
<th>Fax</th>
<th>Telephone</th>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Email address</th>
<th></th>
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<tbody>
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</tbody>
</table>

Enquiries for Special lintels should be faxed to 01455 274564
**CORNER LINTEL**

![Diagram of Corner Lintel]

**SPLAYED BAY LINTEL**

![Diagram of Splayed Bay Lintel]

**SQUARE BAY LINTEL**

![Diagram of Square Bay Lintel]

**LINTEL DIMENSIONS**

<table>
<thead>
<tr>
<th>Span (A)</th>
<th>Span (B)</th>
<th>Span (C)</th>
<th>Angle (X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>°</td>
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</tbody>
</table>

**WALL CONSTRUCTION**

<table>
<thead>
<tr>
<th>Outer leaf</th>
<th>Cavity width</th>
<th>Inner leaf</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
</tbody>
</table>

**PLASTER KEY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Inside only</th>
<th>Both sides</th>
<th>None</th>
</tr>
</thead>
</table>

Do not allow for bearing. This will be added at design stage.

**CUSTOMER DETAILS**

<table>
<thead>
<tr>
<th>Full Name</th>
<th>Company Name</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<th>Email address</th>
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</tbody>
</table>

See additional installation notes on page 67.
APPLICATION
Padstones are generally specified by engineers and architects to help spread heavy point loads across the block or brick walls.

COMPRESSIVE STRENGTH
Stressline padstones are manufactured in a variety of sections and lengths with a standard concrete strength of 50 N/mm². Other concrete strengths can be achieved on application. All rectangular padstones may be used in any orientation.

FINISHES
Stressline padstones are made from wet cast concrete in steel pan moulds providing a smooth finish.

<table>
<thead>
<tr>
<th>Length (mm)</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Weight (kg)</th>
<th>Pack Quantity</th>
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<tbody>
<tr>
<td>300</td>
<td>140</td>
<td>102</td>
<td>10</td>
<td>108</td>
</tr>
<tr>
<td>215</td>
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<td>215</td>
<td>16</td>
<td>96</td>
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<tr>
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<td>102</td>
<td>11</td>
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<td>440</td>
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<td>102</td>
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<td>215</td>
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<tr>
<td>440</td>
<td>215</td>
<td>102</td>
<td>23</td>
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<td>140</td>
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<td>300</td>
<td>215</td>
<td>102</td>
<td>16</td>
<td>72</td>
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<tr>
<td>440</td>
<td>215</td>
<td>190</td>
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<td>440</td>
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<td>215</td>
<td>48</td>
<td>12</td>
</tr>
<tr>
<td>600</td>
<td>215</td>
<td>102</td>
<td>33</td>
<td>20</td>
</tr>
<tr>
<td>L Shaped 440/440</td>
<td>215</td>
<td>102</td>
<td>42</td>
<td>12</td>
</tr>
<tr>
<td>L Shaped 300/300</td>
<td>215</td>
<td>102</td>
<td>23</td>
<td>12</td>
</tr>
</tbody>
</table>
OTHER STRESSLINE PRODUCTS

BEAM & BLOCK FLOORING
- Prestressed Flooring
- ‘I’ Beam Design
- Various Sections
- End Slips
- Thermal flooring option available

150 and 225 mm deep beam options available

PRECAST SECTIONS
- Stair Flights
- Landings
- Balconies

Design and installation service option available

HOLLOWCORE FLOORING
- Prestressed Concrete
- Spans in excess of 9m
- 150mm & 200mm

Design and installation service option available

CONCRETE FENCING AND WALLING PRODUCTS
- Slotted Posts
- Gravel Boards
- Support Posts
- Morticed and Recessed Posts
- Chain Link & Cranked Top Posts
- Screed Rails and Bollards
- Pier Caps
- Copings

Wet cast and light weight variants available
STANTON CAST STONE RANGE

Complementing our wide range of structural building products, Stressline has now introduced our high quality Stanton Cast Stone range, creating both off-the-shelf and bespoke orders at our manufacturing site in Leicestershire.

VAPOUR-CURED
One of only a handful of cast stone suppliers to manufacture vapour-cured products, our advanced production process enables us to provide a faster turnaround on your orders with improved product service life and durability. And, of course, ordering all of your structural building products from a single, trusted supplier will help you save time and money too.

From standard cast stone features to one-of-a-kind architectural statements, our in-house cast stone manufacturing capabilities are backed by skilled craftsmen and a knowledgeable technical team, ensuring that we fulfil your specifications quickly, accurately and to the highest quality standards.

DELIVERING QUALITY
Deliveries of our Stanton Cast Stone products can be co-ordinated with our other structural building products arriving straight to site on the same vehicle. Trust Stressline for fuss-free procurement, simpler site management and a high quality, distinctive end result.

For more information on our Stanton Cast Stone range please contact Stressline on 01455 272457 or email sales@stressline.net

© Stressline Limited 2019
MATERIAL SPECIFICATION
Stressline standard galvanised steel lintels are manufactured from DX51D grade steel to BS EN 10346:2006, with a zinc coating type Z600, giving a minimum zinc coating of 600g/m² per two sides. All cut edges are treated with corrosion resistant paint. RS and RSC lintels are manufactured from structural steel plate of grade S275 to BS EN 10025-2: 2004.

INSULATION
Lintels used in external walls are fully insulated with expanded polystyrene, which has an Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) of zero.

QUALITY
Stressline products are manufactured to the highest quality, under strict control, and comply with all relevant British Standards. We are continually assessed by the BSI to ensure our quality assurance systems comply with BS ISO 9001:2015.

COSHH
Products are considered non-hazardous to health under normal use. Material data sheets are available from our technical department upon request.

STRUCTURAL PERFORMANCE
The loadings published in the load-span tables were achieved in accordance with BS EN 845-2:2013 and tested in accordance with BS EN 846-9:2016 stated figures represent the Total Serviceable Uniform Distributed Load (UDL) in kN.

‘CXHD’ and ‘CH’ type lintels have been tested compositely in accordance with BS EN 846-9:2016 with the surrounding masonry built in accordance with BS 5628. The structural performance of our lintels is supported by continuous in-house testing.

Load Ratios are always expressed as inner leaf to outer leaf:
1:1 – lintels supporting masonry only
3:1 – lintels supporting masonry and timber floors
5:1 – lintels supporting concrete floors
19:1 – lintels for eaves applications

RECOMMENDATIONS FOR INSTALLATION
• Minimum recommended bearing length is 150mm. The lintel should be bedded on mortar and levelled both along the lintel and across its width. Full bricks, blocks or padstones should be used as bearing areas. Do not bear lintels onto cut blocks!
• Prior to installation, the lintel should be examined carefully for any defects or signs of damage.

Additional recommendations for lintels supporting concrete floor units
• Check that the correct lintel has been installed.
• Avoid shock loading of lintels during the installation of concrete floor units and any sideways loading while being fitted into position. Precast flooring units should be laid on a mortar bed across the whole wall width and should not be dragged over supports.
• If you are in doubt as to the structural performance or suitability of a lintel then please contact our Technical department before ordering/installation.

If in doubt please contact our technical department on 01455 272457 or email technical@stressline.net

The Stressline technical support desk offers free technical advice to stockists, engineers, architects, builders and private individuals from 8.00 a.m. to 5.00 p.m. Monday to Friday.

We offer a free scheduling service providing clear and concise schedules based on your working drawings (plans, elevations, sections, floor/roof layout, etc.). Structural calculations for local authority can be provided upon request to support our specification.

We can design and manufacture 'special' lintels to suit a variety of innovative opening shapes and cavity wall constructions. State of the art production facilities and design expertise enable us to take an architectural idea and turn it into a functioning product.
STRUCTURAL PERFORMANCE
Stressline prestressed concrete lintels are designed with a concrete strength of 50 N/mm² and utilizing strands to BS 5896:2012. Lintels are manufactured to BS EN 845-2:2013 tested to BS EN 846-9:2016, and loadings assessed as per BS 5977-1:1981. Materials used in the making of Stressline prestressed concrete lintels comply with BS EN 206-1:2000 and BS 8500.

Lintels offer a minimum of ½ hour fire resistance, which can be increased by additional protection (e.g. plasterboard).

The structural performance of our lintels is supported by continuous in-house testing.

IMPORTANT NOTES
Apart from 140 x 65 and 215 x 65 lintel sections all the other STANDARD lintels are reversible, which means that they can be turned either way around to suit the wall construction. Always check loadings against our load span tables.

In accordance with good practice, HIGH-STRENGTH and FAIR FACED lintels are marked TOP and this surface must be kept at uppermost all times.

QUALITY
Stressline products are manufactured under strict quality control and comply with all relevant British Standards. We are continually assessed by the BSI to ensure our quality assurance systems comply with BS EN ISO 9001:2015.

COSHH
Products are considered non-hazardous to health under normal use. Material data sheets are available from our technical department upon request.

RECOMMENDATIONS FOR INSTALLATION
- The lintel should be bedded on mortar and levelled both along the lintel and across its width. Full bricks, blocks or padstones should be used as bearing areas. Do NOT bear lintels onto cut blocks!
- Recommended minimum bearings are:
  - 100mm both ends in structural openings up to 1000mm long
  - 150mm both ends in structural openings over 1000mm long
This does not discharge the installer’s responsibility to ensure that the bearing pressures of the masonry are not exceeded. To overcome this, longer bearings may be required or additional padstones and spreaders could be provided under the bearings of the lintel.
- Prior to installation, the lintel should be examined carefully for any defects or signs of damage.
- All external wall lintels MUST be installed with a flexible damp proof course (DPC).
- Masonry must not overhang the lintel by more than 25mm.

LIFTING AND STACKING
- When using mechanical plant, only 1 layer of units should be lifted at a time and supported at or near ends.
- Units should be handled carefully as they will not withstand heavy blows, dropping or reverse bending.
- Lifting should be carried out with regard to weather conditions, particularly wind, adequate lifting capacity and lengths of chains.
- No lifting should be carried out over work areas.
- Load weight should be checked prior to lifting.
- Stacking should be the right way up on suitable firm, level ground.
- The bearers should be near to the ends and vertically over each other.

Additional recommendations for lintels supporting concrete floor units
- Check that the correct lintel has been installed.
- Recommended minimum lintel depth is 140mm
- Avoid shock loading of lintels during the installation of concrete floor units and any sideways loading while being fitted into position. Precast flooring units should be laid on a mortar bed across the whole wall width and should not be dragged over supports.
- If you are in doubt as to the structural performance or suitability of a lintel then please contact our Technical department before ordering/installation.

If in doubt please contact our technical department on 01455 272457 or email technical@stressline.net

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We offer free, clear and concise scheduling service based on your working drawings (plans, elevations, sections, floor/roof layout, etc.). If required, we can schedule and deliver lintels in house plots with an easy referencing system to ensure that the correct lintel is used in the chosen location. Structural calculations for local authority can be provided upon request to support our specification.
CONTACT US

For more information on our Lintel range contact our sales team now:

01455 270300

eemail:
technical@stressline.net
marketing@stressline.net
sales@stressline.net

facebook.com/StresslineLtd
twitter.com/StresslineLtd
linkedin.com/company/stressline-limited
Stressline Limited
Foxbank Industrial Estate
Stoney Stanton
Leicestershire
LE9 4LX

T: 01455 272457
F: 01455 274564
E: sales@stressline.net
W: stressline.net

The information contained in this brochure was accurate at the date of publication. We reserve the right to introduce, at any time, modifications and changes of details that may be deemed necessary. April 2019.