# BIRTLEY LINTELS
## PRODUCT GUIDE

2017 EDITION

The **only** lintel range to **guarantee** complete and consistent protection

**0845 121 1236**
**www.birtleylintels.co.uk**

Birtley Group

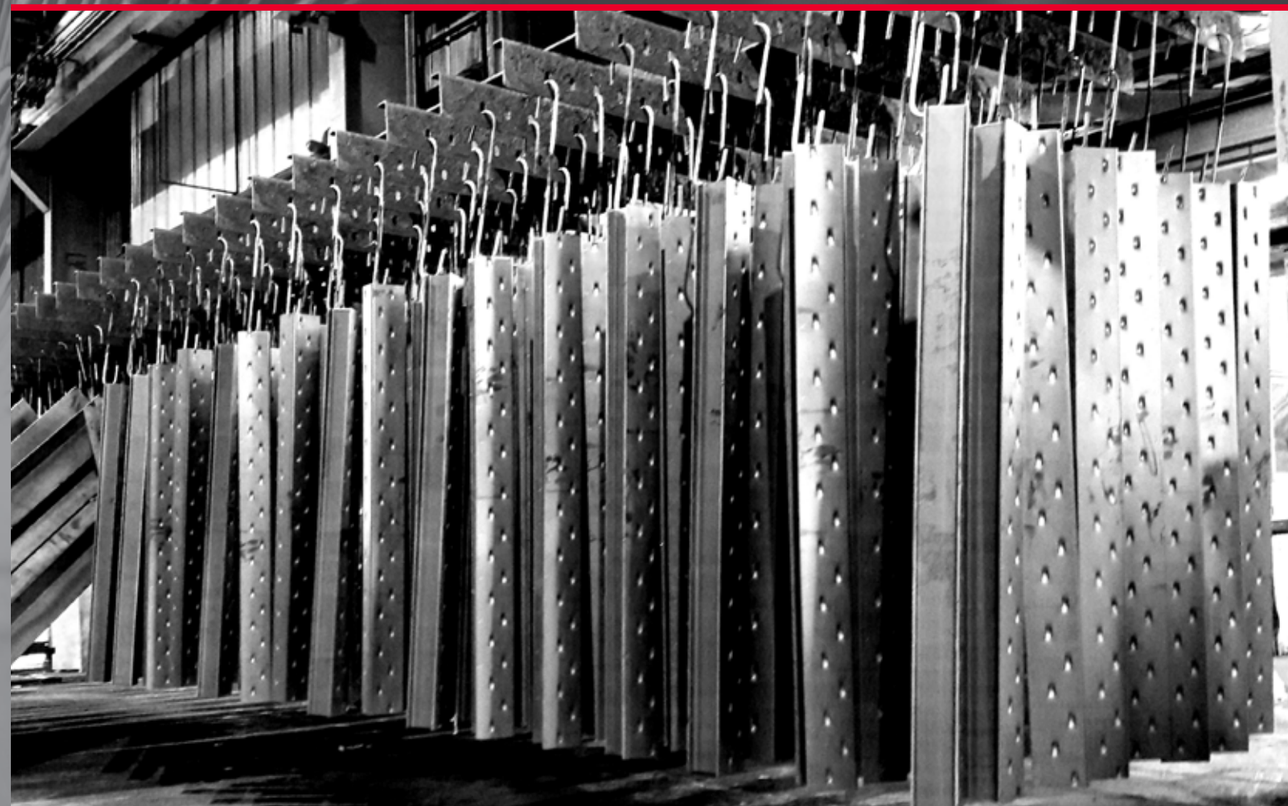
STRENGTH THROUGH QUALITY

One Group. Three Outstanding Brands.

Birtley | EXPAMET | BOWATER by Birtley

Mary Avenue, Birtley, County Durham DH3 1JF United Kingdom
0845 121 1236 | lintel.sales@birtleygroup.co.uk | www.birtleylintels.co.uk





> “CONSTRUCTION IS THE ART OF MAKING A MEANINGFUL WHOLE OUT OF MANY PARTS”
>
> - Peter Zumthor (Architect)

## BIRTLEY LINTELS – Supporting the UK construction industry since 1965

Founded in 1965 in County Durham, Birtley began life as a small structural steel business, opening on 19th July that year. Originally steel fabricators for the mining industry, Birtley added steel lintels to its product range in 1967 and by 1979 was a credible building industry specialist, with depots across the country. In 1996, Birtley commissioned and built a brand new plant, establishing one of Europes most advanced facilities for hot dipped galvanizing which remains fully operational today.

Birtley acquired the metalwork manufacturer Expamet in 2012, followed by an acquisition of Bowater Doors in 2015. All three companies now operate under the Birtley Group banner, providing a broad spectrum of products to the construction industry.

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**Need technical advice?**

Speak to our technical team

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

## CAN’T FIND WHAT YOU’RE LOOKING FOR?

SPEAK TO ONE OF OUR CUSTOMER ADVISORS


**Sales**
0845 121 1236
lintel.sales@birtleygroup.co.uk

**Technical**
0845 121 4542
lintel.technical@birtleygroup.co.uk


Birtley is the **only lintel range** that **guarantees complete and consistent protection**. On top of our **industry-leading performance**, you’ll also enjoy the **unlimited support** of our entire technical team, **free of charge**.

- Industry leading performance
- Free of charge support team
- Quick turnaround
- Custom-made solutions
- Downloadable technical information

# OUR COMMITMENT
# **TO QUALITY**

**Need technical advice?**
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**0845 121 4542**

## Our Commitment to Quality

With over 50 years of manufacturing expertise Birtley continues to be the stalwart of the lintel market, producing over 25,000 tonnes of steel products for the construction sector every single year.

### Understated Strength

Birtley is the only lintel manufacturer to hot-dip galvanize after fabrication providing up to 50% more zinc protection than other approved coatings. Hot Dip Galvanizing to EN1461 offers superior corrosion protection and lifespan compared with pre-galvanized steel.
We offer a 65-150µm zinc coating thickness to suit life expectancy and exposure class. Our lintels are the only lintels to deliver consistent protection to all parts including welds and cuts, which are otherwise only protected by paint on pre-galvanized alternatives.

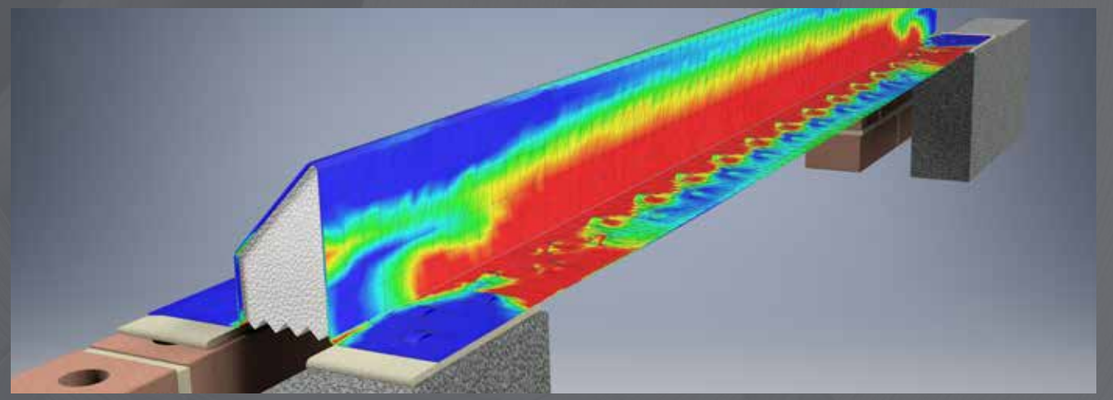
# TECHNICAL SUPPORT
# **ADVISORY SERVICE**

**Can't find what you're looking for?**
Speak to our technical team
**0845 121 4542**

## Our Services

Birtley provides comprehensive technical support to designers, specifiers, builders and merchants covering all aspects of the design, specification and installation of Supergalv lintels. The service includes :

- **Technical Support**
  Comprehensive pre- and post-sale technical support by phone or email.
- **CAD Scheduling**
  Free specification and CAD scheduling service when architectural plans are supplied.
- **Unusual Applications**
  Advice and solutions for unusual loading situations.
- **Design Service**
  Lintel design service for bespoke architectural features and wall constructions.
- **Calculations**
  Structural calculations, when necessary, for building control approval.
- **Ψ PSI Values**
  Bespoke accredited linear thermal transmittance Ψ (Psi values) for use in SAP calculations.
- **Structural Analysis**
  Finite Element Analysis of complex structures.



In order to provide you with a faster and more reliable scheduling service, the following details will help us to give you an exact recommendation:

- **Drawings**
  CAD, PDF or Fax: preferably 1:50 scale, including plans, sections and elevations.
- **Floor Details**
  Timber/concrete, direction of span, and loadings (if concrete).
- **Wall Details**
  Solid/cavity wall dimensions, materials and density if non-standard.
- **Roof Layout**
  Including location of girder trusses and calculations if available.

# KEY CONSIDERATIONS
# GALVANIZERS ASSOCIATION

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The life of any coating is dependent on the local environment, which is often hard to quantify. The Galvanizers Association is responsible for a nationwide scientific survey which links geographic location to the lifespan of a galvanized coating.

## Atmospheric corrosion rate of hot dip galvanizing

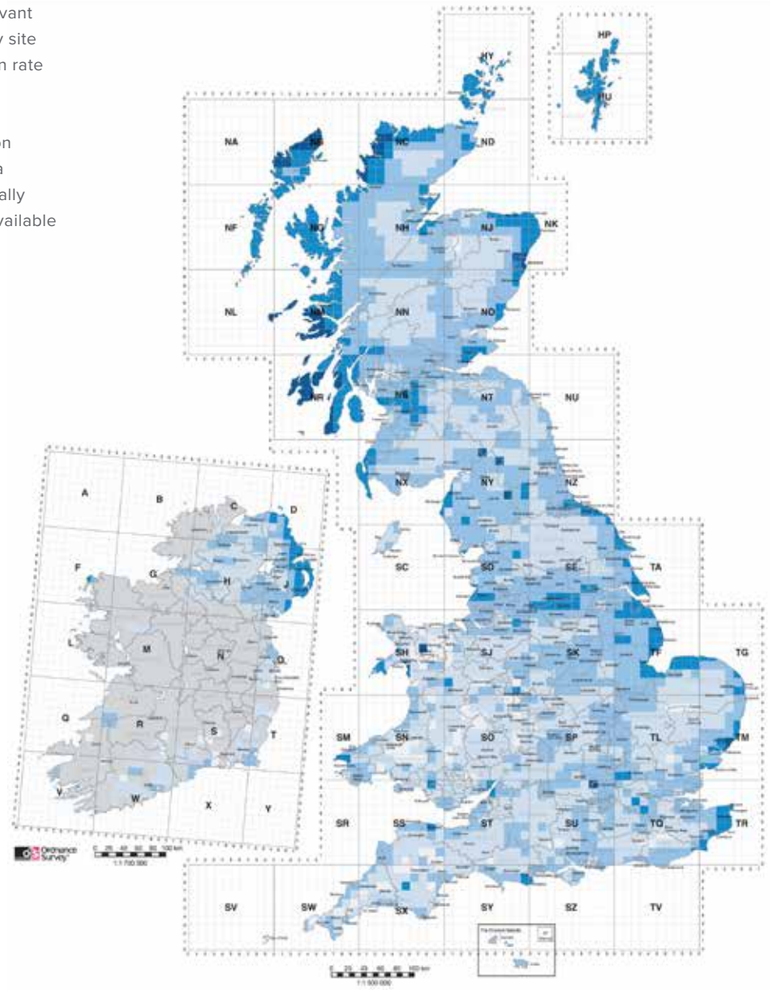
This is an approximate guide and is most relevant to stationary, exterior exposed structures. Any site specific factors which may affect the corrosion rate must also be taken into account.

Detailed data for individual sites and advice on its interpretation (e.g. the possible effects of a local micro-climate on the corrosion rate actually experienced by the galvanized structure) is available from the Galvanizers Association.

## How to use the map

- Locate your project on the map
- Match the colour of the square to the key
- Read off the average background corrosion rate in µm per annum
- Divide the coating thickness by the corrosion rate to obtain the expected minimum life of the galvanized coating, or just use the following table.

| Corrosion Category | | | | | |
|---|---|---|---|---|---|
| Average Corrosion rate (µm/year) | 0.5 | 1 | 1.5 | 2 | 2.5 |
| **Supergalv** 65µm min life expectancy (years) | 130 | 65 | 43 | 33 | 26 |
| **Ultragalv** 150µm min life expectancy (years) | 300 | 150 | 100 | 75 | 65 |




*Based upon the annual average atmospheric corrosion of Zinc, UK and Republic of Ireland, 1998-2000.*

GALVANIZERS ASSOCIATION



# KEY CONSIDERATIONS
# COATINGS COMPARED

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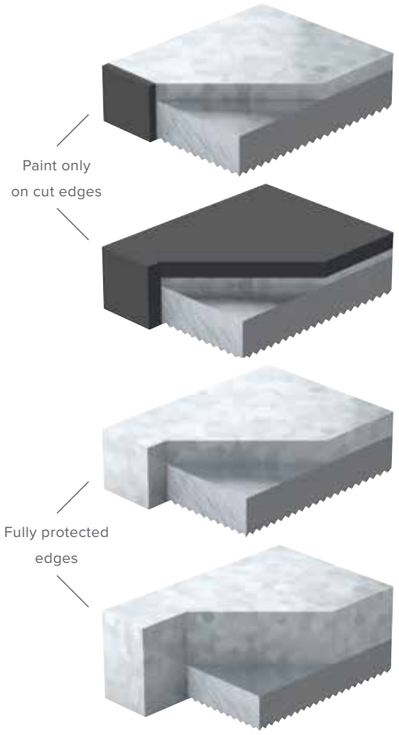
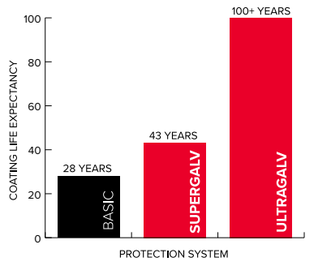
Our post fabrication dipping process ensures that every part of every lintel is covered with an equally effective layer of protection. Other lintels are often made using pre-galvanized material, which is cut, bent and processed before a layer of paint is used to protect the cut surfaces, the same surfaces which are at the greatest risk of damage. Our cut edges are protected by metal, not paint, that's why Birtley lintels are far more durable than other products on the market.

## EN 845-2 Coatings Compared

Within EN845-2, several material coatings are deemed suitable for use when manufacturing lintels for the UK market. The following scale diagrams show how we compare with other hEN approved systems of corrosion protection:




### Basic Protection

- Zinc coated steel strip or sheet with all cut edges organic coated.
- 42µm Zinc, to main surfaces
- 25µm organic coating on cut edges.

### Duplex Protection

- Zinc coated steel strip with organic coating.
- 19µm Zinc, to main surfaces
- Organic coating on all surfaces.

### Birtley **Supergalv**

- Fully Zinc coated steel component.
- HDG to EN1461: 65µm Zinc on all surfaces.

### Birtley **Ultragalv**

- Fully Zinc coated steel component.
- Shot blast to SA2.5 then HDG to EN1461: 150+µm Zinc on all surfaces.

## Coating Life Expectancy

The graph opposite shows how long you would expect each galvanized coating to last in a moderate 1.5µm/year corrosion rate as defined by the map overleaf. The difference speaks for itself.

## Material Specification

Birtley has the only complete range of steel lintels manufactured from structural grade steels: S275JR/S355JR to EN10025- 2:2004. All Supergalv lintels are Hot-Dip Galvanized, post fabrication, in accordance with BS EN 1461:2009, giving an unrivalled 65µm zinc coating to all surfaces.

Whilst our standard coating is suitable for the vast majority of applications, coastal regions need special consideration. An additional soffit cover, paint-finish (to ISO 12944) or a stainless steel lintel should be specified where a site is in an exposed coastal location. For NHBC sites, coastal exposure is deemed to be within 500m of the shoreline.

**Galvanized Lintel**

**Stainless Steel Lintel**

Stainless steel lintels are made to order using 1.4301 (304) austenitic stainless steel to BS EN 10088-1:2014. Other grades can be specified on request. Polyester powder coating of lintels to standard RAL colours is available by special order. POA.

## Insulation

All external cavity wall lintels (exc SX/XHD) are insulated with expanded polystyrene to BS EN 13163. The insulation is CFC, HCFC and HFA free and has an ozone depletion potential of zero. Expanding with pentane achieves a BREEAM credit for a global warming potential of zero. The underside of the insulation is profiled to act as an efficient plaster key, with the absence of a baseplate preventing a cold-bridge occurring at the window head.

## Thermal Performance

Linear Thermal Transmittance Ψ (Psi) values are calculated by engineers qualified to design Accredited Construction Details for use in SAP 2012. Calculations are undertaken using Heat 2/3 software, validated to EN ISO 10211/EN ISO 10077-2, and in accordance with BRE documents IP 1/06 and BR497. Our in-house team of Accredited Thermal Modellers will carry out bespoke thermal bridging assessments on request.



## Fire Resistance

Birtley lintels have been tested to BS 476-20:1987 to determine the fire resistance of the load bearing elements of construction. A minimum 60min rating is achieved when installed with a plaster finish. We are happy to provide test reports on request.




PRODUCT SPECIFICATION
**BUILDING REGULATIONS**



## Structural Performance

All structural data included within this guide has been derived by calculation, Finite Element Analysis, and physical testing in accordance with BS EN 845-2:2013, BS 5977-2:1983, BS EN 1993+NAs. All declared loads are assumed to be uniformly distributed and are based on serviceability limit state design. Loads are limited by a 1.6 factor of safety against structural failure, and a deflection limit of $L_{Eff}/325$, where $L_{Eff}$ is the distance between bearing centres. Load ratios are provided to ensure that the lintel cannot be overstressed within the maximum declared load. Ratios outside of those stated can be accommodated, although the maximum safe load may no longer apply. Similarly a non-uniform load distribution could lead to an increase or decrease in load capacity. Please contact our Technical Department for further information.

| CB | CBHD | MD, HD, HDX, SX, XHD |
|---|---|---|
| Standard Duty | Medium Duty | Medium/Heavy Duty |
| 1:1 to 1:3 | 1:1 to 1:5 | 1:5 to 1:19 |

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**0845 121 4542**

## Thermal Bridging

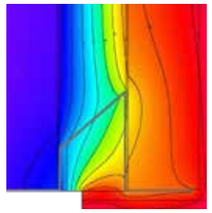
Lintels are classed as non-repeating thermal bridges and have an associated heat loss which is quantified as a Ψ (Psi) Value. Psi values are measured in Watts/Metre*Kelvin, therefore the lower the value, the less heat is lost through the junction.

### The Building Regulations: Approved Documents L1A/L2A & SAP

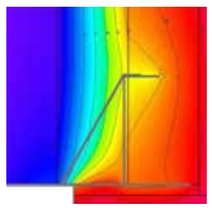
Recent changes in the Building Regulations mean that a building's fabric performance must now hit a Target for Fabric Energy Efficiency (TFEE) in addition to the traditional Target Emission Rate (TER) for $CO_2$. This means that more emphasis is put on reducing heat loss, a significant proportion of which can be attributed to lintels and other non-repeating thermal bridges.

A 'recipe' based system is adopted by SAP 2012 whereby a notional dwelling of identical proportions is given set values of linear thermal transmittance from Appendix R. These values aren't intended to limit each individual junction or wall, but when combined with other factors and U values, form a target for the dwelling as a whole. Appendix R values are significantly lower than approved values from Appendix K so it is important that energy assessors use dwelling specific accredited values; otherwise they may be forced to over-compensate in other aspects of fabric specification.

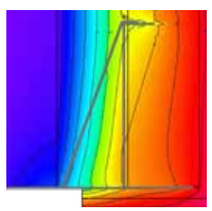
| CB90 | | |
|---|---|---|
| *Length Range* | *Psi Value*W/mK* | *Temperature Factor* |
| 750-1050 | 0.171 | 0.942 |
| 1200-1350 | 0.169 | 0.904 |
| 1500-1650 | 0.195 | 0.937 |
| 1800-2100 | 0.186 | 0.901 |
| 2250-2400 | 0.210 | 0.891 |
| 2550 | 0.203 | 0.897 |
| 2700-3000 | 0.197 | 0.903 |
| 3300-3900 | 0.217 | 0.897 |



| MD90 | | |
|---|---|---|
| *Length Range* | *Psi Value*W/mK* | *Temperature Factor* |
| 1800 | 0.199 | 0.75 |



| HD90 | | |
|---|---|---|
| *Length Range* | *Psi Value*W/mK* | *Temperature Factor* |
| 1800 | 0.183 | 0.82 |



** Actual calculated values based on 100mm cavity, full fill insulation. Block λ=0.19.*

### Accredited Construction

Building to a Part L Accredited Construction Detail allows energy assessors to use an approved value of 0.3W/mK for lintels without a baseplate; in reality, our lintels can perform significantly better.

The values opposite show the actual calculated heat loss, for standard, medium and heavy duty lintels in a 100mm cavity wall. For other wall constructions, lengths or conductivities, please contact our Technical Department for further guidance.

Temperature Factors should be in excess of 0.75 to minimise the risk of mould growth.

**Talk to us today for advice on thermal bridging solutions**

**0845 121 4542**





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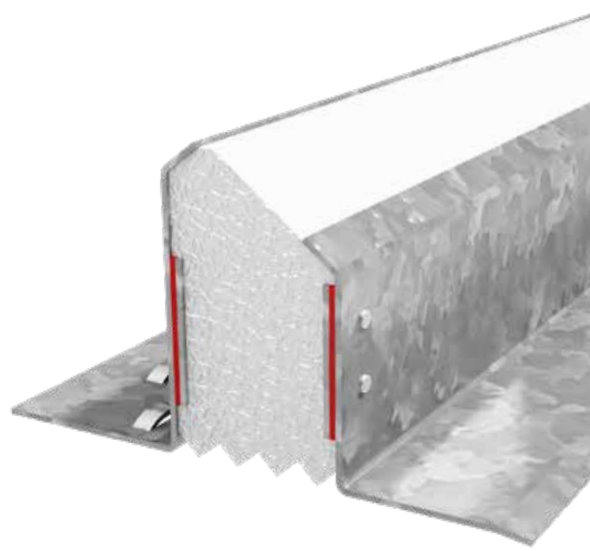
## Supatherm Lintels

When more significant fabric savings are needed, our Supatherm range of lintels can reduce heat loss by around 75% when compared with a standard cavity wall lintel. Based on a typical detached, semi-detached, or terraced property, Supatherm lintels can improve the Dwelling Fabric Energy Efficiency (DFEE) by up to 3%, and the overall Dwelling Emission Rate (DER) by over 1%.

What actual benefit will this give?

For a small detached dwelling (105m2), this could mean the difference between double glazing and triple glazing, saving roughly 25% on all windows.

On a large detached dwelling (304m2), it could enable a wall cavity reduction from 150 to 125mm. This creates significant savings in insulation and masonry ancillaries. Why not see what Supatherm lintels could save you?

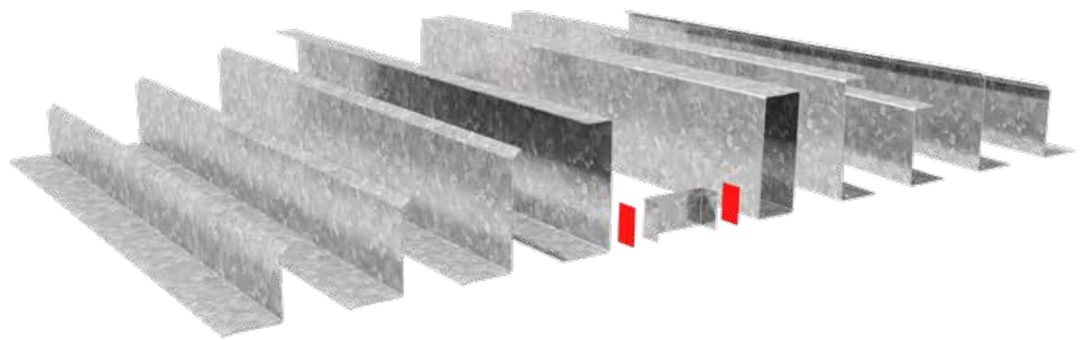


- Over 75% reduction in heat loss compared with standard cavity wall lintels
- 65µm Hot-Dip Galvanized coating to EN1461 as standard
  *Ultragalv, Duplex and Stainless steel available on request
- Options to suit all types of masonry and wall construction
- Custom shapes, arches and various flange options on request
- All parts and assemblies CE marked to BS EN 845-2
- To suit cavity widths from 90 to 150mm
- Lengths available from 750 to 3900mm
- Standard duty, heavy duty and extra heavy duty versions available
- Avoids propping associated with single leaf lintels

If our standard range doesn't meet your requirements, why not mix and match our extensive single leaf lintel range using the Supatherm system?



**Typical Ψ value 0.03 - 0.06**
Further details on request



# HOW TO SELECT
# **A BIRTLEY LINTEL**

**Can't find what you're looking for?**

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## 1 Step One: **Wall Construction**
How is the wall constructed?

**Cavity Wall:**
Measure the inner leaf thickness, cavity width & outer leaf thickness. Birtley recommends the use of an additional cavity tray with all external cavity wall lintels.

**Solid Walls:**
**Available for** • Single leaf face brick or block external walls.
- 200-215mm solid brick or block walls.
- 215mm fair face solid walls with two leaves.

**Internal Walls:**
**Available for** • 100mm and 140mm load bearing walls
- 100mm Non-load bearing walls

**Timber Frames:**
Measure the cavity width & the outer leaf thickness.

## 2 Step Two: **Opening**
How wide is the opening?

**Measure:** The opening that will contain the window or door.

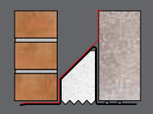
**The Lintel:** Should be minimum 300mm wider than the opening (150mm at each end) Except when noted otherwise.

## 3 Step Three: **Loading**
How much weight is above the opening?

To determine which load duty is required, the imposed load must be fully assessed and quantified.

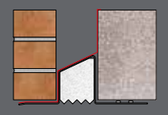
Loads can be direct e.g. walls/floors/live loads, or indirect, from adjacent parts of the structure - for which a proportion must be taken into account. Imposed loads should be derived in accordance with PD6697/BS5977, and unfactored when compared with our published Safe Working Loads (SWL).

# LINTEL RANGE **CAVITY WALLS**



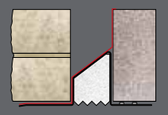
**100MM OUTER LEAF / 100MM INNER LEAF**
Measure the inner leaf thickness, cavity width & outer leaf thickness.

| CAVITY SIZE | Standard Duty | Standard/ Medium Duty | Medium Duty | Heavy Duty | Extra Heavy Duty | Ultra Heavy Duty | Extreme Heavy Duty |
|---|---|---|---|---|---|---|---|
| 50-65mm | CB50 | CB50HD | MD50 | HD50 | HDX50 | SX50 | XHD50 |
| 70-85mm | CB70 | CB70HD | MD70 | HD70 | HDX70 | SX70 | XHD70 |
| 90-105mm | CB90 | CB90HD | MD90 | HD90 | HDX90 | SX90 | XHD90 |
| 110-125mm | CB110 | - | MD110 | HD110 | HDX110 | SX110 | XHD110 |
| 130-145mm | CB130 | - | MD130 | HD130 | HDX130 | SX130 | XHD130 |
| 150-165mm | CB150 | - | MD150 | HD150 | HDX150 | SX150 | XHD150 |



**100MM OUTER LEAF / WIDE INNER LEAF**
Measure the inner leaf thickness, cavity width & outer leaf thickness.

| CAVITY SIZE | Standard Duty | Medium Duty | Heavy Duty | Extra Heavy Duty | Ultra Heavy Duty | Extreme Heavy Duty |
|---|---|---|---|---|---|---|
| 50-65mm | CB50/130 | MD50/130 | HD50/130 | HDX50/130 | SX50/130 | XHD50/130 |
| 70-85mm | CB70/130 | MD70/130 | HD70/130 | HDX70/130 | SX70/130 | XHD70/130 |
| 90-105mm | CB90/130 | MD90/130 | HD90/130 | HDX90/130 | SX90/130 | XHD90/130 |
| 110-125mm | CB110/130 | MD110/130 | HD110/130 | HDX110/130 | SX110/130 | XHD110/130 |
| 130-145mm | CB130/130 | MD130/130 | HD130/130 | HDX130/130 | SX130/130 | XHD130/130 |
| 150-165mm | CB150/130 | MD150/130 | HD150/130 | HDX150/130 | SX150/130 | XHD150/130 |



**WIDE OUTER LEAF / 100MM INNER LEAF**
Measure the inner leaf thickness, cavity width & outer leaf thickness.

| CAVITY SIZE | Standard Duty | Medium Duty | Heavy Duty | Extra Heavy Duty | Ultra Heavy Duty | Extreme Heavy Duty |
|---|---|---|---|---|---|---|
| 50-65mm | CB125/50/100 | MD125/50/100 | HD125/50/100 | HDX125/50/100 | SX125/50/100 | XHD125/50/100 |
| 70-85mm | CB125/70/100 | MD125/70/100 | HD125/70/100 | HDX125/70/100 | SX125/70/100 | XHD125/70/100 |
| 90-105mm | CB125/90/100 | MD125/90/100 | HD125/90/100 | HDX125/90/100 | SX125/90/100 | XHD125/90/100 |
| 110-125mm | CB125/110/100 | MD125/110/100 | HD125/110/100 | HDX125/110/100 | SX125/110/100 | XHD125/110/100 |
| 130-145mm | CB125/130/100 | MD125/130/100 | HD125/130/100 | HDX125/130/100 | SX125/130/100 | XHD125/130/100 |
| 150-165mm | CB125/150/100 | MD125/150/100 | HD125/150/100 | HDX125/150/100 | SX125/150/100 | XHD125/150/100 |

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BIRTLEY LINTELS
**RANGE OVERVIEW**

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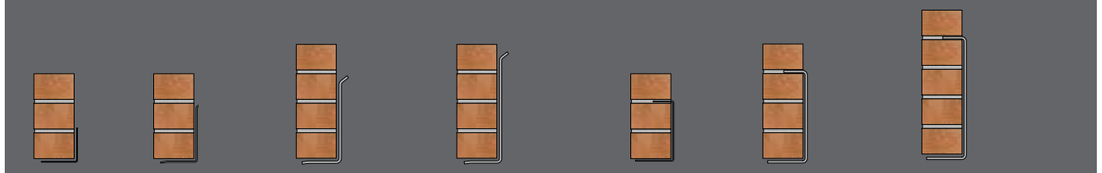
## SOLID WALLS Page 36

**OB190** Standard Duty
**SBL200** Medium Duty
**SBL200HD** Heavy Duty
**SBL200XHD** Extreme Heavy Duty
**DC200** Heavy Duty
**DC200HDX** Extra Heavy Duty
**SW200** Extreme Heavy Duty

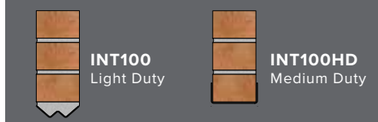
## EXTERNAL WALLS Page 37



**MBL** Light Duty
**LA** Standard Duty
**LAHDX** Extra Heavy Duty
**LAXHD** Extreme Heavy Duty
**EV100** Standard Duty
**EV100HDX** Extra Heavy Duty
**EV100XHD** Extreme Heavy duty

## INTERNAL WALLS Page 39

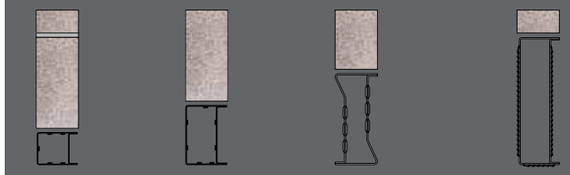
Non-Loadbearing Walls



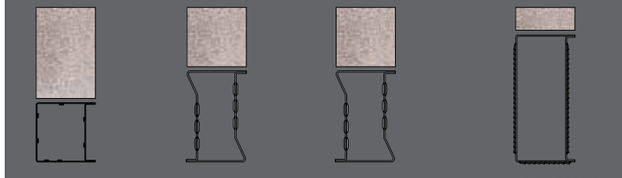
**INT100** Light Duty
**INT100HD** Medium Duty

## INTERNAL WALLS Page 38

Box Lintels



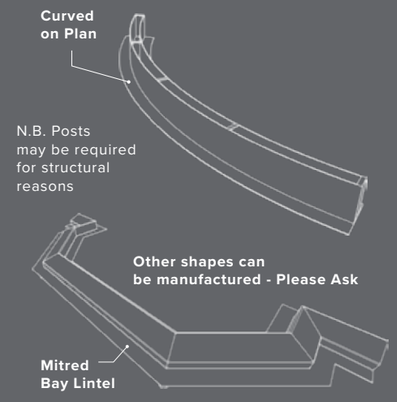
**SB100** Standard Duty
**SB100HD** Heavy Duty
**SB100HDX** Extra Heavy Duty
**SB100XHD** Extreme Heavy Duty



**SB140** Standard Duty
**SB140HD** Heavy Duty
**SB140HDX** Extra Heavy Duty
**SB140XHD** Extreme Duty

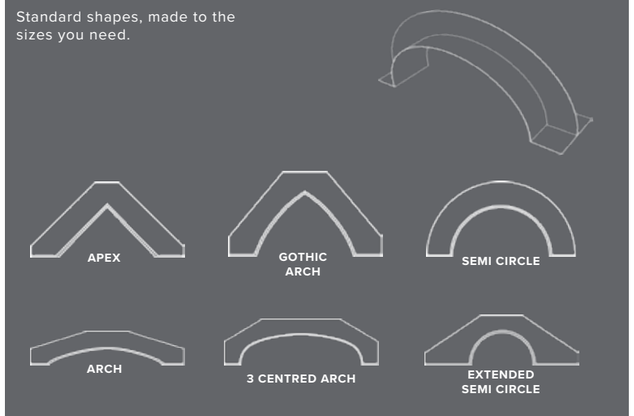
N.B. Profiles shown are indicative and change with length for a given load duty classification. Height of profile illustrated is shown in brackets.
Please consult our literature for more information.

## MITRES AND CURVES Page 43

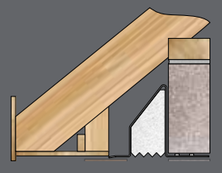



## CUSTOM PROFILES Page 42

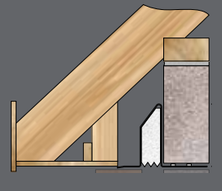
Standard shapes, made to the sizes you need.




## EAVES Page 39



**CBEV50** 50-85 Cavity



**CBEV90** 90-125 Cavity

**CBEV150** 130-175 Cavity

## TIMBER FRAME Page 40

**TF50** Standard Duty
**TF50HD** Heavy Duty
**TF50HDX** Extra Heavy Duty

## ACCESSORIES Page 45

**ARCHFORM**

**SOFFIT COVER**
Decorative PVC cover

**Other cavity sizes / masonry options are available (Page 41)**

**If the lintel you require isn't shown, please contact us for more information**

For free advice please contact our technical team on:

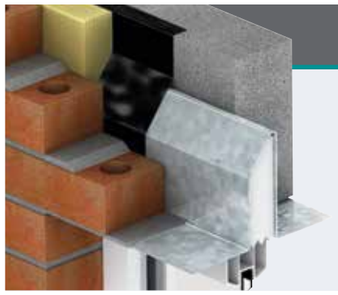
**0845 121 4542 | fax: 0191 411 2558**

**lintel.technical@birtleygroup.co.uk**

**DID YOU KNOW...**

Birtley Group also design customised masonry support systems.

EXPAMET



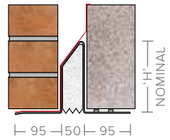
## STANDARD

Cavity **50-65mm**
Outer Leaf **100mm**
Inner Leaf **100mm**

*Lintel Shown: CB50*

### CB50
STANDARD DUTY

Not suitable for point loads or concrete floors.

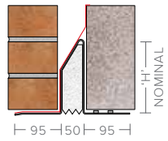



| Length | 750-1200 | 1350-1650 | 1800-2100 | 2250-2400 | 2550-2700 | 2850-3000 | 3150-3900 |
|---|---|---|---|---|---|---|---|
| L (kN) | 15 | 15 | 20 | 22 | 26 | 26 | 26 |
| W (kg/m) | 5.8 | 7.1 | 8.1 | 9.9 | 10.9 | 11.5 | 14 |
| H (mm) | 114 | 114 | 144 | 149 | 172 | 190 | 206 |

*(L) Load SWL (W) Weight (H) Height*

### CB50HD
STANDARD/MEDIUM DUTY

Not suitable for point loads or concrete floors.

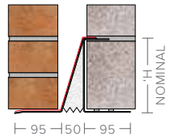



| Length | 750-1500 | 1650-2100 | 2250-3000 |
|---|---|---|---|
| L (kN) | 36 | 36 | 36 |
| W (kg/m) | 10.1 | 14 | 14.4 |
| H (mm) | 155 | 207 | 215 |

*(L) Load SWL (W) Weight (H) Height*

### MD50
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

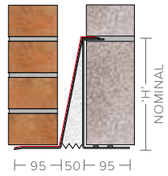



| Length | 750-1800 | 1950-2400 | 2550-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 35 | 35 | 35 | 25 |
| W (kg/m) | 9.4 | 12.1 | 13.4 | 13.4 |
| H (mm) | 154 | 155 | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

### HD50
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

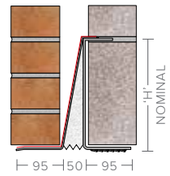



| Length | 750-1800 | 1950-2400 | 2550-2700 | 2850-3000 | 3150-3600 | 3750-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 60 | 55 | 50 | 40 | 35 | 25 |
| W (kg/m) | 14.8 | 14.8 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| H (mm) | 231 | 231 | 232 | 232 | 232 | 232 | 232 | 232 |

*(L) Load SWL (W) Weight (H) Height*

### HDX50
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

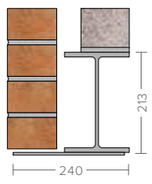



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 |
| H (mm) | 236 | 236 | 236 | 236 | 236 |

*(L) Load SWL (W) Weight (H) Height*

### SX50
ULTRA HEAVY DUTY

**203x133x30UB**
Should be laterally restrained and propped during installation.

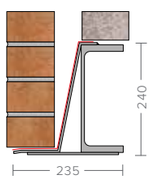



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD50
EXTREME HEAVY DUTY

**230x90x32PFC**
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 54.6 | 54.6 | 54.6 | 54.6 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*





## WIDE INNER

Cavity **50-65mm**
Outer Leaf **100mm**
Inner Leaf **125-140mm**

*Lintel Shown: CB50/130*

**CAN'T FIND WHAT YOU'RE LOOKING FOR?**

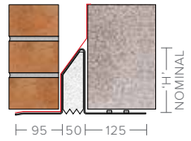
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

### CB50/130
STANDARD DUTY

Not suitable for point loads or concrete floors.

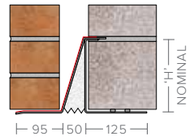



| Length | 750-1200 | 1350-1800 | 1950-2400 | 2550-2850 | 3000-3900 |
|---|---|---|---|---|---|
| L (kN) | 15 | 20 | 22 | 26 | 26 |
| W (kg/m) | 7.3 | 9.9 | 10.9 | 13.7 | 14.4 |
| H (mm) | 104 | 134 | 159 | 184 | 199 |

*(L) Load SWL (W) Weight (H) Height*

### MD50/130
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

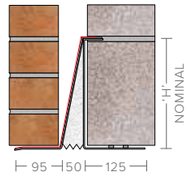



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 13.6 | 13.6 |
| H (mm) | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

### HD50/130
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

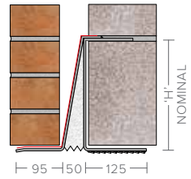



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 40 | 35 | 25 |
| W (kg/m) | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

### HDX50/130
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

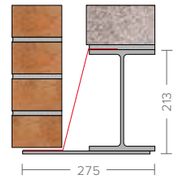



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

### SX50/130
ULTRA HEAVY DUTY

**203x133x30UB**
Should be laterally restrained and propped during installation.

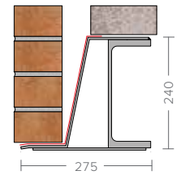



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD50/130
EXTREME HEAVY DUTY

**230x90x32PFC**
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 59.2 | 59.2 | 59.2 | 592 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*

# BIRTLEY LINTELS
# 50MM CAVITY WALLS

**100MM INNER WIDE OUTER**

## WIDE OUTER

Cavity **50-65mm**
Outer Leaf **125-140mm**
Inner Leaf **100mm**

*Lintel Shown: CB125/50/100*

### CAN'T FIND WHAT YOU'RE LOOKING FOR?

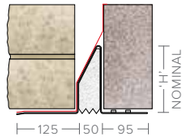
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

## CB125/50/100
STANDARD DUTY

Not suitable for point loads or concrete floors.

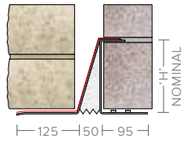



| Length | 750-1500 | 1650-2400 | 2250-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 25 | 30 | 30 | 26 |
| W (kg/m) | 8.5 | 11.8 | 14.6 | 14.6 |
| H (mm) | 140 | 184 | 210 | 210 |

*(L) Load SWL (W) Weight (H) Height*

## MD125/50/100
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

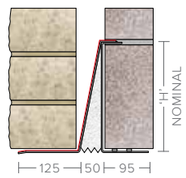



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 14.3 | 14.3 |
| H (mm) | 155 | 155 |

*(L) Load SWL (W) Weight (H) Height*

## HD125/50/100
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

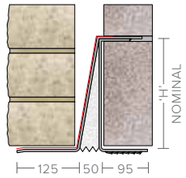



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 40 | 35 | 25 |
| W (kg/m) | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

## HDX125/50/100
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

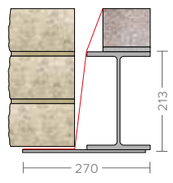



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

## SX125/50/100
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

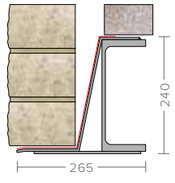



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

## XHD125/50/100
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 57.7 | 57.7 | 57.7 | 57.7 |
| H (mm) | 240 | 240 | 240 | 240 |

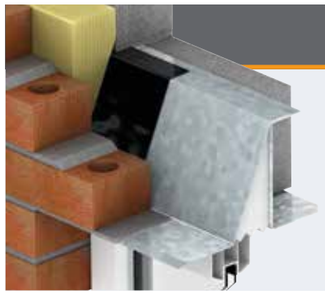
*(L) Load SWL (W) Weight (H) Height*





# BIRTLEY LINTELS
# 70MM CAVITY WALLS

**100MM INNER 100MM OUTER**



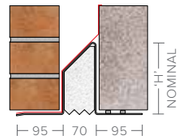
## STANDARD

Cavity **70-85mm**
Outer Leaf **100mm**
Inner Leaf **100mm**

*Lintel Shown: MD70*

## CB70
STANDARD DUTY

Not suitable for point loads or concrete floors.

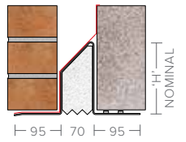



| Length | 750-1200 | 1350-1500 | 1650-2100 | 2250-2400 | 2550-3000 | 3150-3900 |
|---|---|---|---|---|---|---|
| L (kN) | 15 | 15 | 20 | 22 | 26 | 26 |
| W (kg/m) | 5.8 | 7.1 | 8.3 | 10.1 | 11.5 | 14 |
| H (mm) | 108 | 108 | 143 | 148 | 185 | 201 |

*(L) Load SWL (W) Weight (H) Height*

## CB70HD
STANDARD/MEDIUM DUTY

Not suitable for point loads or concrete floors.

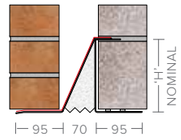



| Length | 750-1500 | 1650-2100 | 2250-3000 |
|---|---|---|---|
| L (kN) | 36 | 36 | 36 |
| W (kg/m) | 10.1 | 14 | 14.4 |
| H (mm) | 149 | 201 | 208 |

*(L) Load SWL (W) Weight (H) Height*

## MD70
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

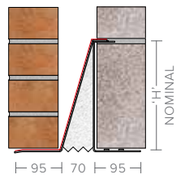



| Length | 750-1800 | 1950-2400 | 2550-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 35 | 35 | 35 | 25 |
| W (kg/m) | 9.7 | 12.5 | 13.4 | 13.4 |
| H (mm) | 154 | 155 | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

## HD70
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

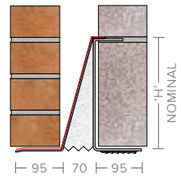



| Length | 750-1800 | 1950-2400 | 2550-2700 | 2850-3000 | 3150-3300 | 3450-3900 | 4050-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 14.8 | 14.8 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| H (mm) | 231 | 231 | 232 | 232 | 232 | 231 | 232 | 232 | 232 |

*(L) Load SWL (W) Weight (H) Height*

## HDX70
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

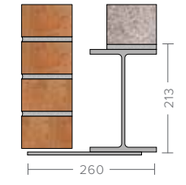



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 |
| H (mm) | 236 | 236 | 236 | 236 | 236 |

*(L) Load SWL (W) Weight (H) Height*

## SX70
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

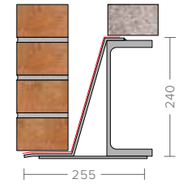



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 |
| H (mm) | 231 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

## XHD70
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.

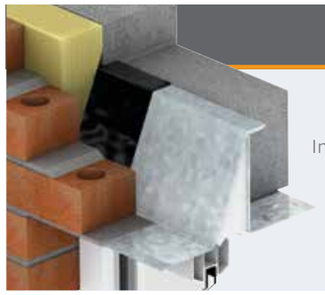



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 55.4 | 55.4 | 55.4 | 55.4 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*

# BIRTLEY LINTELS
# 70MM CAVITY WALLS

**WIDE INNER**
**100MM OUTER**



## WIDE INNER

Cavity **70-85mm**
Outer Leaf **100mm**
Inner Leaf **125-140mm**

*Lintel Shown: MD70/130*

## CAN'T FIND WHAT YOU'RE LOOKING FOR?

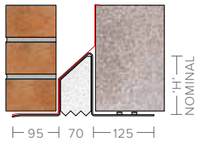
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

### CB70/130
STANDARD DUTY

Not suitable for point loads or concrete floors.

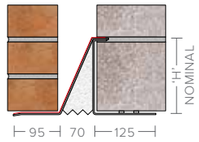



| Length | 750-1200 | 1350-1800 | 1950-2400 | 2550-2850 | 3000-3900 |
|---|---|---|---|---|---|
| L (kN) | 15 | 22 | 22 | 30 | 26 |
| W (kg/m) | 7.3 | 9.9 | 10.9 | 13.7 | 14.4 |
| H (mm) | 98 | 127 | 152 | 177 | 192 |

*(L) Load SWL (W) Weight (H) Height*

### MD70/130
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

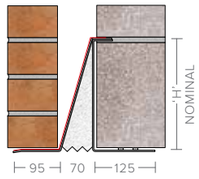



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 13.6 | 13.6 |
| H (mm) | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

### HD70/130
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

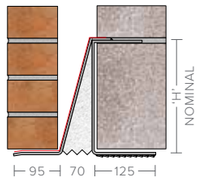



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3300 | 3450-3900 | 4050-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

### HDX70/130
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

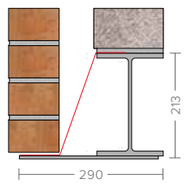



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

### SX70/130
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

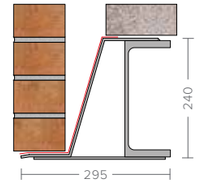



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD70/130
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 60 | 60 | 60 | 60 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*



BIRTLEY LINTELS
70MM CAVITY WALLS

**100MM INNER**
**WIDE OUTER**

## WIDE OUTER

Cavity **70-85mm**
Outer Leaf **125-140mm**
Inner Leaf **100mm**

*Lintel Shown: MD125/70/100*

CAN'T FIND WHAT YOU'RE LOOKING FOR?

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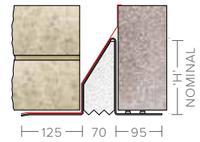
**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

### CB125/70/100
STANDARD DUTY

Not suitable for point loads or concrete floors.

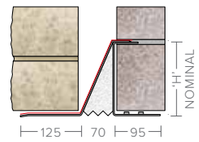



| Length | 750-1500 | 1650-2400 | 2250-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 25 | 30 | 30 | 25 |
| W (kg/m) | 10.9 | 11.8 | 14.6 | 14.6 |
| H (mm) | 157 | 181 | 202 | 202 |

*(L) Load SWL (W) Weight (H) Height*

### MD125/70/100
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

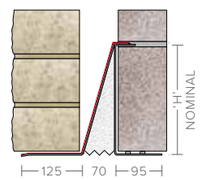



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 14.3 | 14.3 |
| H (mm) | 155 | 155 |

*(L) Load SWL (W) Weight (H) Height*

### HD125/70/100
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

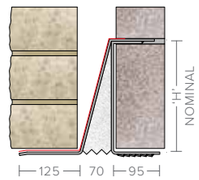



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3300 | 3450-3900 | 4050-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

### HDX125/70/100
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

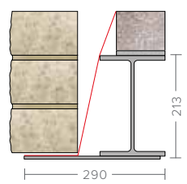



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

### SX125/70/100
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

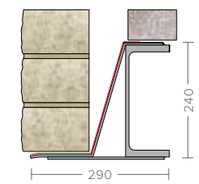



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD125/70/100
EXTREME HEAVY DUTY

230X90X32PFC
Should be laterally restrained and propped during installation.



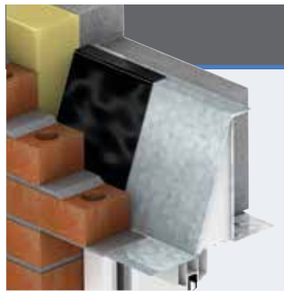

| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 59.2 | 59.2 | 59.2 | 59.2 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*

# BIRTLEY LINTELS
# 90MM CAVITY WALLS

**100MM INNER**
**100MM OUTER**





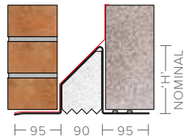
## STANDARD

Cavity **90-105mm**
Outer Leaf **100mm**
Inner Leaf **100mm**

*Lintel Shown: HD90*

### CB90
STANDARD DUTY

Not suitable for point loads or concrete floors.

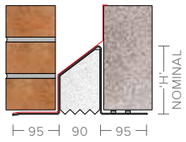



| Length | 750-1050 | 1200-1350 | 1500-1650 | 1800-2100 | 2250-2400 | 2550 | 2700-3000 | 3150-3900 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 15 | 15 | 15 | 20 | 22 | 26 | 26 | 26 |
| W (kg/m) | 5.8 | 5.9 | 7.3 | 8.3 | 10.1 | 10.9 | 11.8 | 14.4 |
| H (mm) | 97 | 102 | 102 | 132 | 141 | 157 | 181 | 197 |

*(L) Load SWL (W) Weight (H) Height*

### CB90HD
STANDARD/MEDIUM DUTY

Not suitable for point loads or concrete floors.

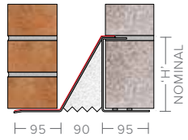



| Length | 750-1500 | 1650-2100 | 2250-3000 |
|---|---|---|---|
| L (kN) | 36 | 36 | 36 |
| W (kg/m) | 10.1 | 14 | 14.4 |
| H (mm) | 141 | 193 | 201 |

*(L) Load SWL (W) Weight (H) Height*

### MD90
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

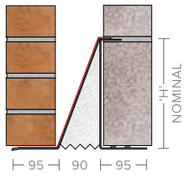



| Length | 750-1800 | 1950-2400 | 2550-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 35 | 35 | 35 | 25 |
| W (kg/m) | 9.7 | 12.6 | 13.5 | 13.5 |
| H (mm) | 154 | 155 | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

### HD90
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

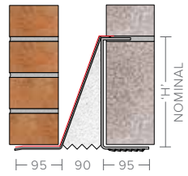



| Length | 750-1800 | 1950-2400 | 2550-2700 | 2850-3000 | 3150-3600 | 3750-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 60 | 55 | 45 | 40 | 35 | 25 |
| W (kg/m) | 14.8 | 14.8 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| H (mm) | 231 | 231 | 232 | 232 | 232 | 232 | 232 | 232 |

*(L) Load SWL (W) Weight (H) Height*

### HDX90
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

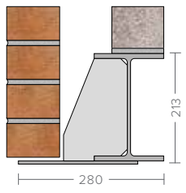



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 |
| H (mm) | 236 | 236 | 236 | 236 | 236 |

*(L) Load SWL (W) Weight (H) Height*

### SX90
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

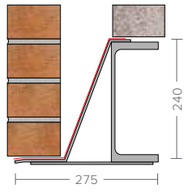



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD90
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 56.1 | 56.1 | 56.1 | 56.1 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*



# BIRTLEY LINTELS
# 90MM CAVITY WALLS

**WIDE INNER**
**100MM OUTER**



## WIDE INNER

Cavity **90-105mm**
Outer Leaf **100mm**
Inner Leaf **125-140mm**

*Lintel Shown: HD90/130*

## CAN'T FIND WHAT YOU'RE LOOKING FOR?

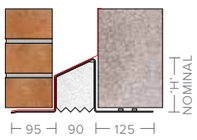
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

### CB90/130
STANDARD DUTY

Not suitable for point loads or concrete floors.

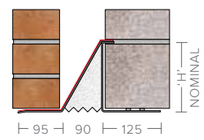



| Length | 750-1200 | 1350-1800 | 1950-2400 | 2550-2850 | 3000-3900 |
|---|---|---|---|---|---|
| L (kN) | 15 | 22 | 22 | 30 | 26 |
| W (kg/m) | 7.3 | 9.9 | 10.9 | 13.7 | 14.4 |
| H (mm) | 86 | 116 | 141 | 166 | 181 |

*(L) Load SWL (W) Weight (H) Height*

### MD90/130
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

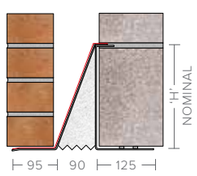



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 13.6 | 13.6 |
| H (mm) | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

### HD90/130
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

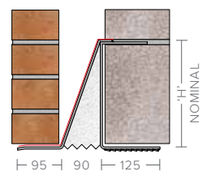



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 45 | 40 | 35 | 25 |
| W (kg/m) | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

### HDX90/130
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

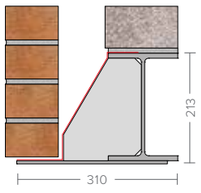



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

### SX90/130
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

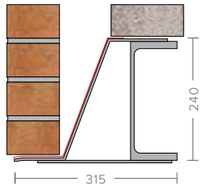



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD90/130
EXTREME HEAVY DUTY

Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 60 | 60 | 60 | 60 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*

# BIRTLEY LINTELS
# 90MM CAVITY WALLS

**100MM INNER**
**WIDE OUTER**

## WIDE OUTER

Cavity **90-105mm**
Outer Leaf **125-140mm**
Inner Leaf **100mm**

*Lintel Shown: HD125/90/100*

### CAN'T FIND WHAT YOU'RE LOOKING FOR?

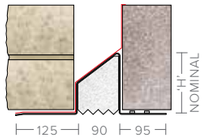
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

## CB125/90/100
STANDARD DUTY

Not suitable for point loads or concrete floors.

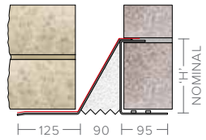



| Length | 750-1500 | 1650-2400 | 2250-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 25 | 30 | 30 | 25 |
| W (kg/m) | 8.5 | 11.8 | 14.6 | 14.6 |
| H (mm) | 126 | 170 | 191 | 191 |

*(L) Load SWL (W) Weight (H) Height*

## MD125/90/100
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

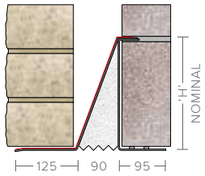



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 14.3 | 14.3 |
| H (mm) | 155 | 155 |

*(L) Load SWL (W) Weight (H) Height*

## HD125/90/100
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

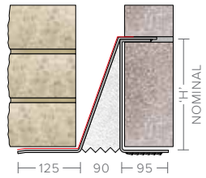



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 45 | 40 | 35 | 25 |
| W (kg/m) | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

## HDX125/90/100
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

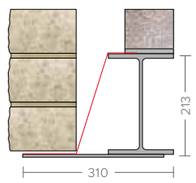



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

## SX125/90/100
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

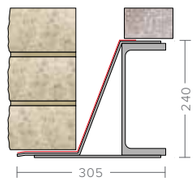



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

## XHD125/90/100
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 60 | 60 | 60 | 60 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*



# BIRTLEY LINTELS
# 110MM CAVITY WALLS

**100MM INNER**
**100MM OUTER**

## STANDARD

Cavity **110-125mm**
Outer Leaf **100mm**
Inner Leaf **100mm**

*Lintel Shown: HDX110*

### CAN'T FIND WHAT YOU'RE LOOKING FOR?

For further information or to ask us a specific question please contact our **technical team**

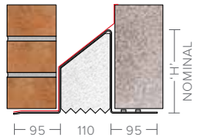
**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**



## CB110
STANDARD DUTY

Not suitable for point loads or concrete floors.

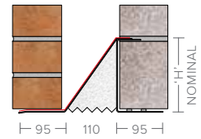



| Length | 750-1500 | 1650-2100 | 2250-2700 | 2850-3300 |
|---|---|---|---|---|
| L (kN) | 20 | 20 | 25 | 30 |
| W (kg/m) | 8.3 | 10 | 11.5 | 14.4 |
| H (mm) | 132 | 134 | 173 | 196 |

*(L) Load SWL (W) Weight (H) Height*

## MD110
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

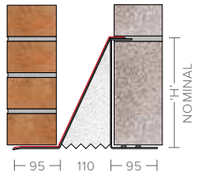



| Length | 750-1800 | 1950-2400 | 2550-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 35 | 35 | 35 | 25 |
| W (kg/m) | 10.1 | 12.9 | 13.9 | 13.9 |
| H (mm) | 154 | 155 | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

## HD110
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

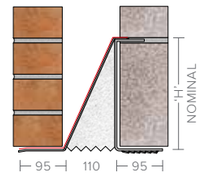



| Length | 750-1800 | 1950-2400 | 2550-2700 | 2850-3000 | 3150-3600 | 3750-3900 | 4050-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 15.1 | 15.1 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| H (mm) | 231 | 231 | 232 | 232 | 232 | 232 | 232 | 232 | 232 |

*(L) Load SWL (W) Weight (H) Height*

## HDX110
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

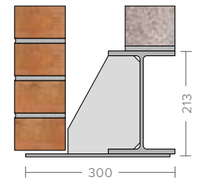



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 |
| H (mm) | 236 | 236 | 236 | 236 | 236 |

*(L) Load SWL (W) Weight (H) Height*

## SX110
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

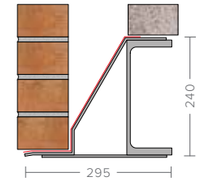



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

## XHD110
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 59.6 | 59.6 | 59.6 | 59.6 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*

# BIRTLEY LINTELS
# 110MM CAVITY WALLS

**WIDE INNER**
**100MM OUTER**

## WIDE INNER

Cavity **110-125mm**
Outer Leaf **100mm**
Inner Leaf **125-140mm**

*Lintel Shown: HDX110/130*

## CAN'T FIND WHAT YOU'RE LOOKING FOR?

For further information or to ask us a specific question please contact our **technical team**

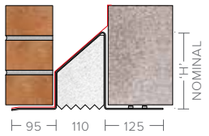
**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**



### CB110/130
STANDARD DUTY

Not suitable for point loads or concrete floors.

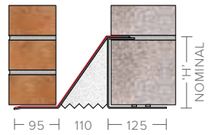



| Length | 750-2100 | 2250-2550 | 2700-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 30 | 25 | 30 | 23 |
| W (kg/m) | 11.5 | 11.8 | 14.4 | 14.4 |
| H (mm) | 160 | 167 | 183 | 183 |

*(L) Load SWL (W) Weight (H) Height*

### MD110/130
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

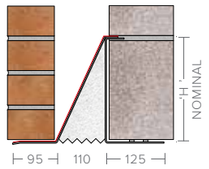



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 15.1 | 15.1 |
| H (mm) | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

### HD110/130
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

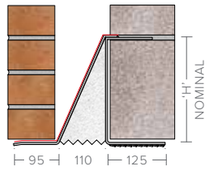



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-3900 | 4050-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

### HDX110/130
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

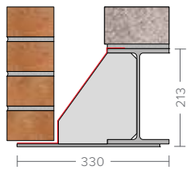



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

### SX110/130
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

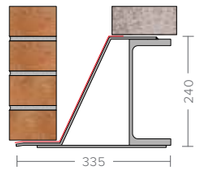



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD110/130
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 60.7 | 60.7 | 60.7 | 60.7 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*



BIRTLEY LINTELS
110MM CAVITY WALLS

**100MM INNER**
**WIDE OUTER**

## WIDE OUTER

Cavity **110-125mm**
Outer Leaf **125-140mm**
Inner Leaf **100mm**

*Lintel Shown: HDX125/110/100*

CAN'T FIND WHAT YOU'RE LOOKING FOR?

For further information or to ask us a specific question please contact our **technical team**

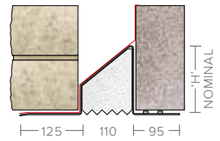
**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**



### CB125/110/100
STANDARD DUTY

Not suitable for point loads or concrete floors.

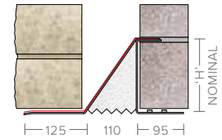



| Length | 750-1650 | 1800-2400 | 2550-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 30 | 21 | 32 | 24 |
| W (kg/m) | 9.9 | 9.9 | 14.6 | 14.6 |
| H (mm) | 142 | 142 | 187 | 187 |

*(L) Load SWL (W) Weight (H) Height*

### MD125/110/100
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

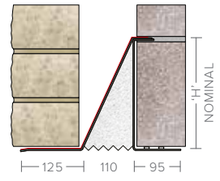



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 15 | 15 |
| H (mm) | 155 | 155 |

*(L) Load SWL (W) Weight (H) Height*

### HD125/110/100
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

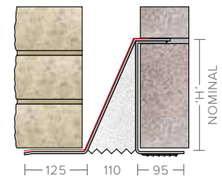



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-3900 | 4050-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

### HDX125/110/100
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

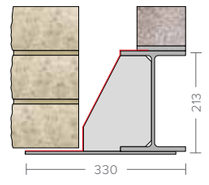



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

### SX125/110/100
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

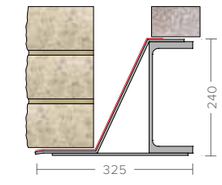



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD125/110/100
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.

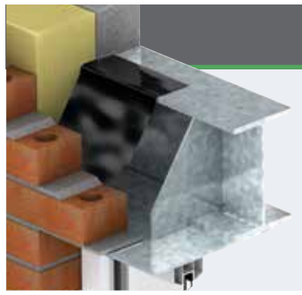



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 60 | 60 | 60 | 60 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*

# BIRTLEY LINTELS
# 130MM CAVITY WALLS

**100MM INNER**
**100MM OUTER**



## STANDARD

Cavity **130-145mm**
Outer Leaf **100mm**
Inner Leaf **100mm**

*Lintel Shown: SX130*

### CAN'T FIND WHAT YOU'RE LOOKING FOR?

For further information or to ask us a specific question please contact our **technical team**

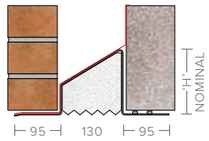
**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**



## CB130
STANDARD DUTY

Not suitable for point loads or concrete floors.

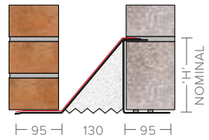



| Length | 750-1500 | 1650-1950 | 2100 | 2250-2700 | 2850-3300 |
|---|---|---|---|---|---|
| L (kN) | 20 | 20 | 20 | 25 | 30 |
| W (kg/m) | 8.3 | 10 | 10.4 | 11.8 | 14.4 |
| H (mm) | 122 | 124 | 134 | 164 | 187 |

*(L) Load SWL (W) Weight (H) Height*

## MD130
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

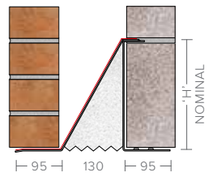



| Length | 750-1800 | 1950-3000 | 3150-3900 |
|---|---|---|---|
| L (kN) | 35 | 35 | 25 |
| W (kg/m) | 10.3 | 14.3 | 14.3 |
| H (mm) | 154 | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

## HD130
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

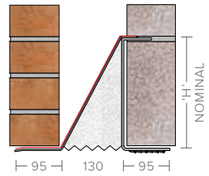



| Length | 750-1800 | 1950-2400 | 2550-2700 | 2850-3000 | 3150-3600 | 3750-3900 | 4050-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 15.4 | 15.4 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 |
| H (mm) | 231 | 231 | 232 | 232 | 232 | 232 | 232 | 232 | 232 |

*(L) Load SWL (W) Weight (H) Height*

## HDX130
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

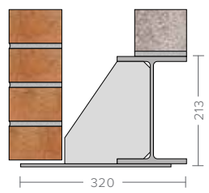



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 24 | 24 | 24 | 24 | 24 |
| H (mm) | 236 | 236 | 236 | 236 | 236 |

*(L) Load SWL (W) Weight (H) Height*

## SX130
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

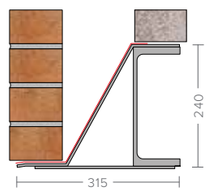



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

## XHD130
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.



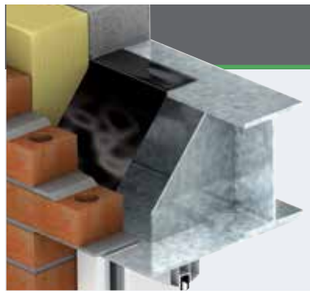

| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 60.4 | 60.4 | 60.4 | 60.4 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*



# BIRTLEY LINTELS
# 130MM CAVITY WALLS

**WIDE INNER**
**100MM OUTER**



## WIDE INNER

Cavity **130-145mm**
Outer Leaf **100mm**
Inner Leaf **125-140mm**

*Lintel Shown: SX130/130*

### CAN'T FIND WHAT YOU'RE LOOKING FOR?

For further information or to ask us a specific question please contact our **technical team**

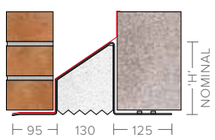
**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**



## CB130/130
STANDARD DUTY

Not suitable for point loads or concrete floors.

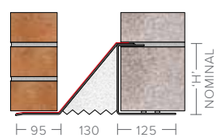



| Length | 750-1500 | 1650-2100 | 2250-2550 | 2700-3000 | 3150-3900 |
|---|---|---|---|---|---|
| L (kN) | 30 | 23 | 25 | 30 | 23 |
| W (kg/m) | 11.5 | 11.5 | 11.8 | 14.4 | 14.4 |
| H (mm) | 151 | 151 | 158 | 174 | 174 |

*(L) Load SWL (W) Weight (H) Height*

## MD130/130
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

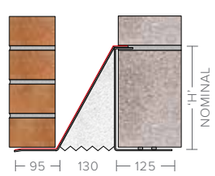



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 15.1 | 15.1 |
| H (mm) | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

## HD130/130
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

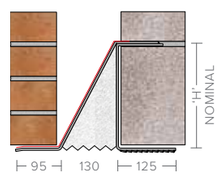



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-3900 | 4050-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

## HDX130/130
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

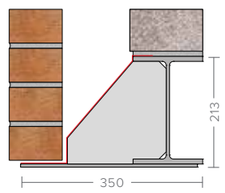



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

## SX130/130
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

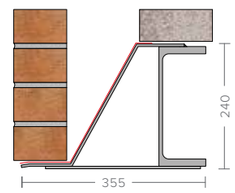



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

## XHD130/130
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 61.4 | 61.4 | 61.4 | 61.4 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*

# BIRTLEY LINTELS
# 130MM CAVITY WALLS

**100MM INNER WIDE OUTER**

## WIDE OUTER

Cavity **130-145mm**
Outer Leaf **125-140mm**
Inner Leaf **100mm**

*Lintel Shown: SX125/130/100*

## CAN'T FIND WHAT YOU'RE LOOKING FOR?

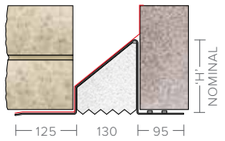
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

### CB125/130/100
STANDARD DUTY

Not suitable for point loads or concrete floors.

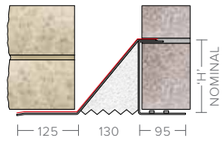



| Length | 750-1500 | 1650-2400 | 2550-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 30 | 25 | 30 | 23 |
| W (kg/m) | 11.5 | 11.5 | 14.6 | 14.6 |
| H (mm) | 153 | 153 | 182 | 182 |

*(L) Load SWL (W) Weight (H) Height*

### MD125/130/100
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

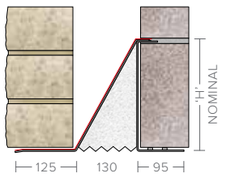



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 15 | 15 |
| H (mm) | 155 | 155 |

*(L) Load SWL (W) Weight (H) Height*

### HD125/130/100
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

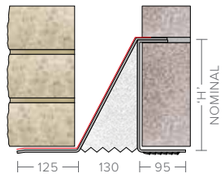



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-3900 | 4050-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

### HDX125/130/100
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

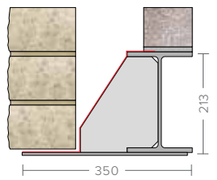



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

### SX125/130/100
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

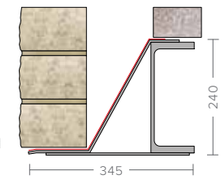



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD125/130/100
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 61.4 | 61.4 | 61.4 | 61.4 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*





# BIRTLEY LINTELS
# 150MM CAVITY WALLS

**100MM INNER 100MM OUTER**

## STANDARD

Cavity **150-165mm**
Outer Leaf **100mm**
Inner Leaf **100mm**

*Lintel Shown: XHD150*

## CAN'T FIND WHAT YOU'RE LOOKING FOR?

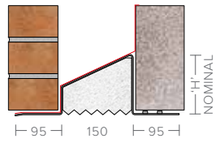
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

### CB150
STANDARD DUTY

Not suitable for point loads or concrete floors.

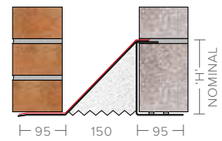



| Length | 750-1500 | 1650-1950 | 2100 | 2250-2700 | 2850-3300 |
|---|---|---|---|---|---|
| L (kN) | 20 | 20 | 20 | 25 | 30 |
| W (kg/m) | 8.3 | 10.1 | 10.4 | 11.5 | 14.4 |
| H (mm) | 112 | 117 | 124 | 153 | 177 |

*(L) Load SWL (W) Weight (H) Height*

### MD150
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

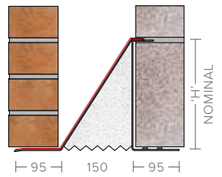



| Length | 750-1800 | 1950-3000 | 3150-3900 |
|---|---|---|---|
| L (kN) | 35 | 35 | 25 |
| W (kg/m) | 10.4 | 14.3 | 14.3 |
| H (mm) | 154 | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

### HD150
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

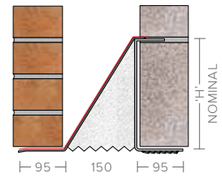



| Length | 750-1800 | 1950-2400 | 2550-2700 | 2850-3000 | 3150-3600 | 3750-3900 | 4050-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 15.4 | 15.4 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 |
| H (mm) | 231 | 231 | 232 | 232 | 232 | 232 | 232 | 232 | 232 |

*(L) Load SWL (W) Weight (H) Height*

### HDX150
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

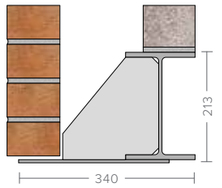



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 24 | 24 | 24 | 24 | 24 |
| H (mm) | 236 | 236 | 236 | 236 | 236 |

*(L) Load SWL (W) Weight (H) Height*

### SX150
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

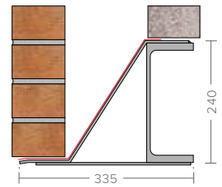



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

### XHD150
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.

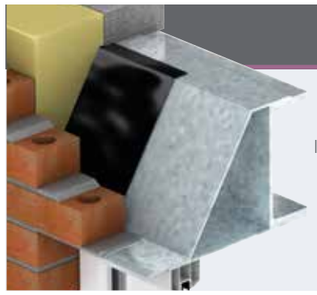



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 61.5 | 61.5 | 61.5 | 61.5 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*

# BIRTLEY LINTELS
# 150MM CAVITY WALLS

**WIDE INNER**
**100MM OUTER**



## WIDE INNER

Cavity **150-165mm**
Outer Leaf **100mm**
Inner Leaf **125-140mm**

*Lintel Shown: XHD150/130*

### CAN'T FIND WHAT YOU'RE LOOKING FOR?

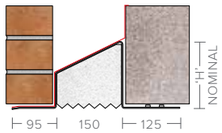
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

## CB150/130
STANDARD DUTY

Not suitable for point loads or concrete floors.

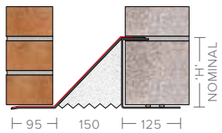



| Length | 750-2100 | 2250-2550 | 2700-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 28 | 25 | 30 | 22 |
| W (kg/m) | 11.5 | 11.8 | 14.4 | 14.4 |
| H (mm) | 139 | 147 | 163 | 163 |

*(L) Load SWL (W) Weight (H) Height*

## MD150/130
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

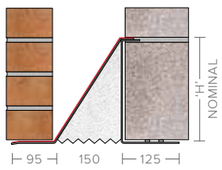



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 15.8 | 15.8 |
| H (mm) | 156 | 156 |

*(L) Load SWL (W) Weight (H) Height*

## HD150/130
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

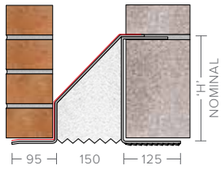



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-3900 | 4050-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

## HDX150/130
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

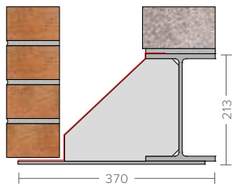



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

## SX150/130
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

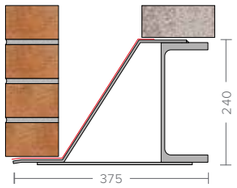



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

## XHD150/130
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.



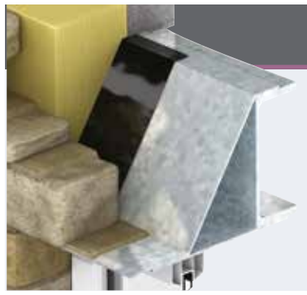

| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 61.4 | 61.4 | 61.4 | 61.4 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*



# BIRTLEY LINTELS
# 150MM CAVITY WALLS

**100MM INNER**
**WIDE OUTER**



## WIDE OUTER

Cavity **150-165mm**
Outer Leaf **125-140mm**
Inner Leaf **100mm**

*Lintel Shown: XHD125/150/100*

### CAN'T FIND WHAT YOU'RE LOOKING FOR?

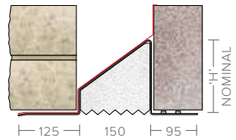
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

## CB125/150/100
STANDARD DUTY

Not suitable for point loads or concrete floors.

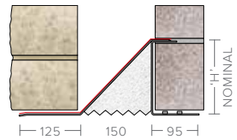



| Length | 750-1500 | 1650-2400 | 2550-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 30 | 25 | 30 | 23 |
| W (kg/m) | 11.8 | 11.8 | 14.6 | 14.6 |
| H (mm) | 154 | 154 | 175 | 175 |

*(L) Load SWL (W) Weight (H) Height*

## MD125/150/100
MEDIUM DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

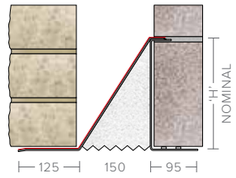



| Length | 750-3000 | 3150-3900 |
|---|---|---|
| L (kN) | 35 | 25 |
| W (kg/m) | 15.3 | 15.3 |
| H (mm) | 155 | 155 |

*(L) Load SWL (W) Weight (H) Height*

## HD125/150/100
HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

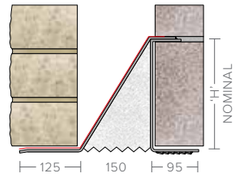



| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-3900 | 4050-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 70 | 60 | 55 | 50 | 45 | 40 | 35 | 25 |
| W (kg/m) | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| H (mm) | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |

*(L) Load SWL (W) Weight (H) Height*

## HDX125/150/100
EXTRA HEAVY DUTY

Must have solid, fully jointed blockwork infill to inner leaf.

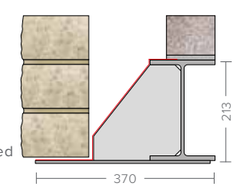



| Length | 750-2100 | 2250-3300 | 3450-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|
| L (kN) | 100 | 80 | 70 | 60 | 45 |
| W (kg/m) | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 |
| H (mm) | 237 | 237 | 237 | 237 | 237 |

*(L) Load SWL (W) Weight (H) Height*

## SX125/150/100
ULTRA HEAVY DUTY

203x133x30UB
Should be laterally restrained and propped during installation.

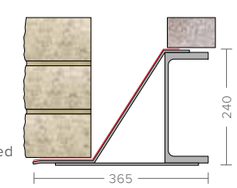



| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-5700 | 5850-6000 | 6150-6300 | 6450-6600 |
|---|---|---|---|---|---|---|---|
| L (kN) | 90 | 80 | 70 | 65 | 55 | 50 | 45 |
| W (kg/m) | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| H (mm) | 213 | 213 | 213 | 213 | 213 | 213 | 213 |

*(L) Load SWL (W) Weight (H) Height*

## XHD125/150/100
EXTREME HEAVY DUTY

230x90x32PFC
Should be laterally restrained and propped during installation.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 61.4 | 61.4 | 61.4 | 61.4 |
| H (mm) | 240 | 240 | 240 | 240 |

*(L) Load SWL (W) Weight (H) Height*

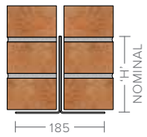
## SOLID WALLS

**200-215mm**
Solid Masonry Wall

*Lintel Shown: SBL200 2850mm +*

### OB190
STANDARD DUTY

Inner and outer leaves must be suitably tied.




| Length | 750-1500 | 1650-2100 | 2250-3000 |
|---|---|---|---|
| L (kN) | 9 | 12 | 20 |
| W (kg/m) | 5.8 | 8.2 | 11.4 |
| H (mm) | 87 | 92 | 157 |

*(L) Load SWL (W) Weight (H) Height*

### SBL200
MEDIUM DUTY

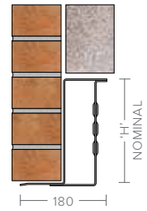
Inner and outer leaves must be suitably tied.


| Length | 750-1800 | 1950-2700 | 2850-3000 | 3150-3600 | 3750-4500 |
|---|---|---|---|---|---|
| L (kN) | 20 | 20 | 25 | 40 | 35 |
| W (kg/m) | 9.8 | 9.8 | 16.5 | 16.5 | 16.5 |
| H (mm) | 140 | 140 | 222 | 222 | 222 |

*(L) Load SWL (W) Weight (H) Height*

### SBL200HD
HEAVY DUTY

Inner and outer leaves must be suitably tied.

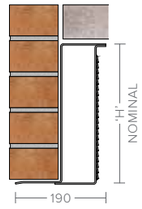



| Length | 750-2550 | 2700-3000 | 3000-3900 | 4050-4500 | 4650-5100 |
|---|---|---|---|---|---|
| L (kN) | 55 | 45 | 50 | 45 | 40 |
| W (kg/m) | 17.2 | 17.2 | 21.2 | 21.2 | 21.2 |
| H (mm) | 222 | 222 | 295 | 295 | 295 |

*(L) Load SWL (W) Weight (H) Height*

### SBL200XHD
EXTRA HEAVY DUTY

Inner and outer leaves must be suitably tied.

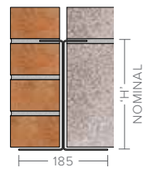



| Length | 750-3000 |
|---|---|
| L (kN) | 65 |
| W (kg/m) | 21.2 |
| H (mm) | 295 |

*(L) Load SWL (W) Weight (H) Height*

### DC200
HEAVY DUTY

Inner and outer leaves must be suitably tied.

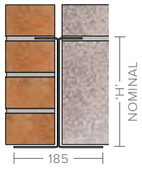



| Length | 750-2100 | 2250-2400 | 2550-3900 | 4050-4800 |
|---|---|---|---|---|
| L (kN) | 60 | 50 | 50 | 30 |
| W (kg/m) | 14.2 | 14.2 | 16.5 | 16.5 |
| H (mm) | 228 | 228 | 229 | 229 |

*(L) Load SWL (W) Weight (H) Height*

### DC200HDX
EXTRA HEAVY DUTY

Inner and outer leaves must be suitably tied.

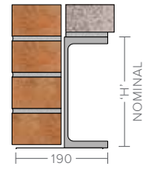



| Length | 750-2100 | 2250-3900 | 4050-4800 | 4950-5100 |
|---|---|---|---|---|
| L (kN) | 100 | 60 | 50 | 30 |
| W (kg/m) | 29 | 29 | 29 | 29 |
| H (mm) | 233 | 233 | 233 | 233 |

*(L) Load SWL (W) Weight (H) Height*

### SW200
EXTREME HEAVY DUTY

Inner and outer leaves must be suitably tied.




| Length | 750-4200 | 4350-4800 | 4950-5400 | 5550-6600 |
|---|---|---|---|---|
| L (kN) | 120 | 100 | 90 | 65 |
| W (kg/m) | 41.3 | 41.3 | 41.3 | 41.3 |
| H (mm) | 236 | 236 | 236 | 236 |

*(L) Load SWL (W) Weight (H) Height*







## EXTERNAL WALLS

**100mm**
Fair faced Masonry

*Lintel Shown: EV100 2250-3000mm*

### MBL
LIGHT DUTY

Lintels above 1500mm must be propped. For light duty applications e.g. meter boxes.


| Length | 750-900 | 1050-1350 | 1500-2100 |
|---|---|---|---|
| L (kN) | 2 | 4 | 5 |
| W (kg/m) | 2.3 | 2.9 | 4.1 |
| H (mm) | 52 | 87 | 92 |

*(L) Load SWL (W) Weight (H) Height*

### LA
STANDARD DUTY

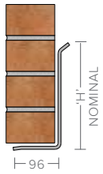
Lintels above 1500mm must be propped.


| Length | 750-1500 | 1650-1800 | 1950-2400 | 2550-3000 | 3150-3900 |
|---|---|---|---|---|---|
| L (kN) | 6 | 6 | 10 | 13 | 8 |
| W (kg/m) | 4.4 | 5.1 | 6.1 | 7.3 | 7.3 |
| H (mm) | 89 | 118 | 157 | 214 | 214 |

*(L) Load SWL (W) Weight (H) Height*

### LAHDX
EXTRA HEAVY DUTY

Lintels above 1500mm must be propped.

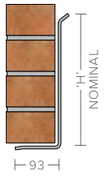



| Length | 750-3900 |
|---|---|
| L (kN) | 17 |
| W (kg/m) | 14.7 |
| H (mm) | 213 |

*(L) Load SWL (W) Weight (H) Height*

### LAXHD
EXTREME HEAVY DUTY

Lintels above 1500mm must be propped.




| Length | 750-3900 |
|---|---|
| L (kN) | 34 |
| W (kg/m) | 18 |
| H (mm) | 283 |

*(L) Load SWL (W) Weight (H) Height*

### EV100
STANDARD DUTY

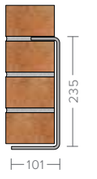
Lintels above 3000mm must be propped.


| Length | 750-1500 | 1650-2100 | 2250-3000 | 3150-3600 | 3750-4500 | 4650-5400 |
|---|---|---|---|---|---|---|
| L (kN) | 15 | 20 | 25 | 30 | 22 | 15 |
| W (kg/m) | 4.9 | 6.7 | 8.6 | 14.5 | 14.5 | 14.5 |
| H (mm) | 151 | 153 | 229 | 233 | 233 | 233 |

*(L) Load SWL (W) Weight (H) Height*

### EV100HDX
EXTRA HEAVY DUTY

Lintels above 3000mm must be propped.

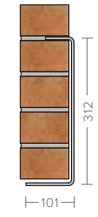



| Length | 750-3600 | 3750-4500 |
|---|---|---|
| L (kN) | 40 | 27 |
| W (kg/m) | 18 | 18 |
| H (mm) | 235 | 235 |

*(L) Load SWL (W) Weight (H) Height*

### EV100XHD
EXTREME HEAVY DUTY

Lintels above 3000mm must be propped.




| Length | 750-4500 |
|---|---|
| L (kN) | 50 |
| W (kg/m) | 21.7 |
| H (mm) | 312 |

*(L) Load SWL (W) Weight (H) Height*

## INTERNAL WALLS

**100mm**
Internal block walls
(plastered)

*Lintel Shown: SB100*
*1650-2700mm*

## INTERNAL WALLS

**140mm**
Internal block walls
(plastered)

*Lintel Shown: SB140*
*2580mm +*

### SB100
STANDARD DUTY

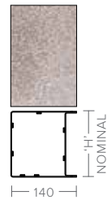
Insulated version available.


| Length | 750-1500 | 1650-1800 | 1950-2700 | 2850-3600 | 3750-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|---|
| L (kN) | 15 | 20 | 20 | 25 | 30 | 28 | 24 |
| W (kg/m) | 4.9 | 6.7 | 8.3 | 10.8 | 13 | 13 | 13 |
| H (mm) | 76 | 142 | 144 | 215 | 215 | 215 | 215 |

*(L) Load SWL (W) Weight (H) Height*

### SB140
STANDARD DUTY

Insulated version available.

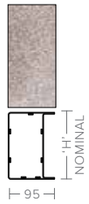



| Length | 750-2100 | 2250-2700 | 2850-3600 | 3750-4200 | 4350-4800 | 4950-5100 |
|---|---|---|---|---|---|---|
| L (kN) | 25 | 25 | 25 | 45 | 35 | 28 |
| W (kg/m) | 7.9 | 9.7 | 12.1 | 17.2 | 17.2 | 17.2 |
| H (mm) | 137 | 138 | 215 | 215 | 215 | 215 |

*(L) Load SWL (W) Weight (H) Height*

### SB100HD
HEAVY DUTY

Insulated version available.

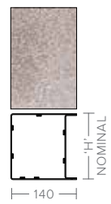



| Length | 750-1500 | 1650-2700 | 2850-3600 | 3750-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|
| L (kN) | 25 | 40 | 45 | 40 | 35 | 30 |
| W (kg/m) | 6.7 | 10.8 | 15.1 | 18.5 | 18.5 | 18.5 |
| H (mm) | 142 | 215 | 215 | 290 | 290 | 290 |

*(L) Load SWL (W) Weight (H) Height*

### SB140HD
HEAVY DUTY

Insulated version available.




| Length | 750-1500 | 1650-2700 | 2850-3600 | 3750-4500 | 4650-4800 | 4950-5100 |
|---|---|---|---|---|---|---|
| L (kN) | 35 | 40 | 45 | 45 | 40 | 35 |
| W (kg/m) | 9.7 | 12.1 | 17.2 | 20.6 | 20.6 | 20.6 |
| H (mm) | 138 | 215 | 215 | 290 | 290 | 290 |

*(L) Load SWL (W) Weight (H) Height*

### SB100HDX
EXTRA HEAVY DUTY

Insulated version available.


| Length | 750-1500 | 1650-2700 |
|---|---|---|
| L (kN) | 60 | 60 |
| W (kg/m) | 11.7 | 15.1 |
| H (mm) | 140 | 215 |

*(L) Load SWL (W) Weight (H) Height*

### SB140HDX
EXTRA HEAVY DUTY

Insulated version available.


| Length | 750-1500 | 1650-2700 |
|---|---|---|
| L (kN) | 60 | 60 |
| W (kg/m) | 13.6 | 17.2 |
| H (mm) | 142 | 215 |

*(L) Load SWL (W) Weight (H) Height*



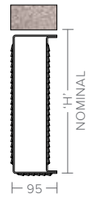






### SB100XHD
EXTREME HEAVY DUTY

Insulated version available.
Loads based on 200mm bearing.




| Length | 750-2700 | 2850-3600 |
|---|---|---|
| L (kN) | 80 | 65 |
| W (kg/m) | 18.5 | 18.5 |
| H (mm) | 290 | 290 |

*(L) Load SWL (W) Weight (H) Height*

### SB140XHD
EXTREME HEAVY DUTY

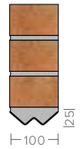
Insulated version available.
Loads based on 200mm bearing.


| Length | 750-2700 | 2850-3600 |
|---|---|---|
| L (kN) | 80 | 65 |
| W (kg/m) | 20.6 | 20.6 |
| H (mm) | 290 | 290 |

*(L) Load SWL (W) Weight (H) Height*

### INT100
LIGHT DUTY

Suitable for non-loadbearing walls.




| Length | 900-1200 |
|---|---|
| L (kN) | 5 |
| W (kg/m) | 2.1 |
| H (mm) | 25 |

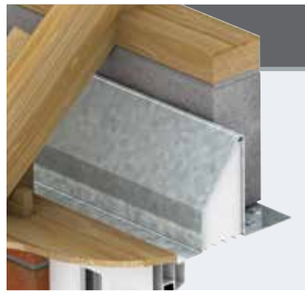
*(L) Load SWL (W) Weight (H) Height*

### INT100HD
MEDIUM DUTY

Suitable for non-loadbearing walls.


| Length | 750-1200 | 1350-2100 |
|---|---|---|
| L (kN) | 10 | 5 |
| W (kg/m) | 3.2 | 3.2 |
| H (mm) | 47 | 47 |

*(L) Load SWL (W) Weight (H) Height*



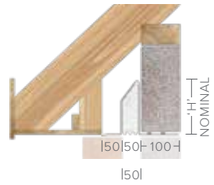
## EAVES

No outer leaf above
Inner leaf **100mm**

*Lintel Shown: CBEV90*

### CBEV50
50-85MM CAVITY

Must be propped during installation to achieve loads. Requires fully bonded masonry and a continuous wall plate.

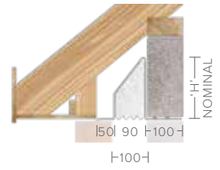



| Length | 750-1200 | 1350-1500 | 1650-1800 | 1950-2100 | 2250-2700 |
|---|---|---|---|---|---|
| L (kN) | 15 | 15 | 20 | 20 | 26 |
| W (kg/m) | 5.5 | 6.8 | 7.1 | 7.3 | 10.9 |
| H (mm) | 124 | 124 | 134 | 139 | 194 |

*(L) Load SWL (W) Weight (H) Height*

### CBEV90
90-125MM CAVITY

Must be propped during installation to achieve loads. Requires fully bonded masonry and a continuous wall plate.

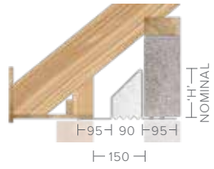



| Length | 750-2100 | 2250-2700 | 2850-3000 | 3150-3900 |
|---|---|---|---|---|
| L (kN) | 20 | 20 | 18 | 18 |
| W (kg/m) | 8.3 | 12 | 11.5 | 14 |
| H (mm) | 162 | 174 | 190 | 206 |

*(L) Load SWL (W) Weight (H) Height*

### CBEV150
130-175MM CAVITY

Must be propped during installation to achieve loads. Requires fully bonded masonry and a continuous wall plate.




| Length | 750-1050 | 1200-1350 | 1500-1650 | 1800-2100 | 2250-2400 | 2550 | 2700-3000 | 3150-3900 |
|---|---|---|---|---|---|---|---|---|
| L (kN) | 15 | 15 | 15 | 19 | 19 | 19 | 19 | 19 |
| W (kg/m) | 5.8 | 5.9 | 7.3 | 8.3 | 10.1 | 10.9 | 11.8 | 14.4 |
| H (mm) | 97 | 102 | 102 | 132 | 141 | 157 | 181 | 197 |

*(L) Load SWL (W) Weight (H) Height*

## TIMBER FRAMES

**100mm**
Fair faced masonry

*Lintel Shown: TF50*

### CAN'T FIND WHAT YOU'RE LOOKING FOR?

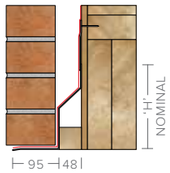
For further information or to ask us a specific question please contact our **technical team**

**0845 121 4542**

**lintel.technical@birtleygroup.co.uk**

### TF50
STANDARD DUTY

Pinch batten must be used. Other cavity sizes available.

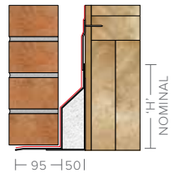



| Length | 750-1350 | 1500-1650 | 1800-2250 | 2400-3000 | 3150-3900 |
|---|---|---|---|---|---|
| L (kN) | 8 | 8 | 10 | 10 | 10 |
| W (kg/m) | 3.8 | 4.1 | 5 | 5.9 | 6.8 |
| H (mm) | 108 | 128 | 178 | 178 | 179 |

*(L) Load SWL (W) Weight (H) Height*

### TF50HD
HEAVY DUTY

Other cavity sizes available.

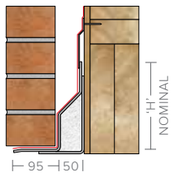



| Length | 750-1350 | 1500-1650 | 1800-2250 | 2400-3000 | 3300-3900 | 4050-4800 |
|---|---|---|---|---|---|---|
| L (kN) | 12 | 12 | 15 | 15 | 15 | 10 |
| W (kg/m) | 6.7 | 7.3 | 8.7 | 11.3 | 13.5 | 13.5 |
| H (mm) | 108 | 128 | 178 | 178 | 179 | 179 |

*(L) Load SWL (W) Weight (H) Height*

### TF50HDX
EXTRA HEAVY DUTY

Other cavity sizes available.




| Length | 750-2100 | 2250-3000 | 3150-3900 | 4050-4800 |
|---|---|---|---|---|
| L (kN) | 30 | 25 | 25 | 15 |
| W (kg/m) | 14.1 | 14.1 | 16.2 | 16.2 |
| H (mm) | 222 | 222 | 257 | 257 |

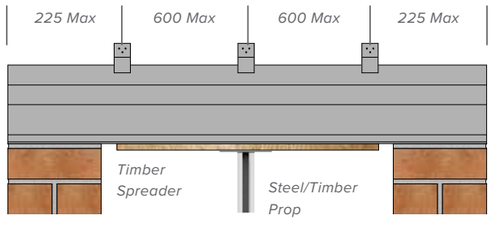
*(L) Load SWL (W) Weight (H) Height*

### TF CLIP

Restraining clips (supplied) should be fixed to timber frame using 3 No 3.3mm Dia x 50 long galvanised nails. Clip should overlap lintel by 12mm as indicated by line on clip.

### TF INSTALLATION

Lintels above 1200 long should be propped until lintel is fully loaded and brickwork has matured. Use horizontal timber spreader to avoid distorting lintel. Use single central prop for openings up to 2100.
For larger openings use multiple props (max spacing 1200).











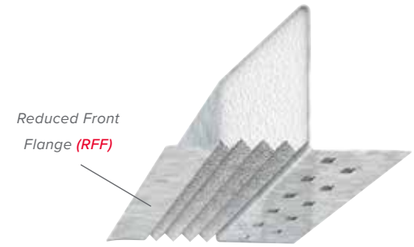

## Lintel Options

Sometimes a standard lintel just doesn't suit the architectural detailing of a building's design so a range of bespoke options are available on request.

### RFF

The front flange of a lintel can be reduced in length. This is most useful when using a chamfered window head or narrow brick, when a standard flange would protrude.

To specify, add 'RFF' to the end of the lintel reference, followed by the projection of the flange e.g. CB50 RFF50.




### ND

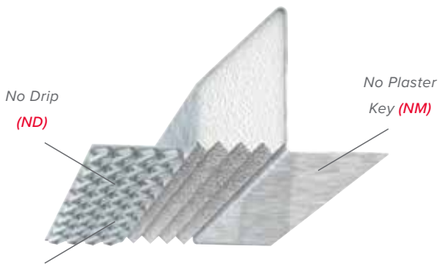
To minimise the mortar bed thickness at the end bearings, e.g. when using stone heads and surrounds, the weather drip on the front flange of the lintel can be omitted.

To specify, add 'ND' to the end of the lintel reference e.g. CB50 ND.

### MF

A mesh can be welded to the underside of the front flange as a key to allow a rendered soffit. As the lintel is galvanized after the mesh is attached, it doesn't compromise the integrity of the lintel.

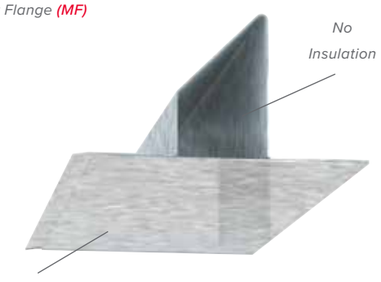
To specify, add 'MF' to the end of the lintel reference e.g. CB50 MF.




### NM

Where the inner leaf of a cavity wall is fair-faced and the inner flange of the lintel is not plastered, the plaster key on this flange can be omitted.

To specify, add 'NM' to the end of the lintel reference e.g. CB50 NM.



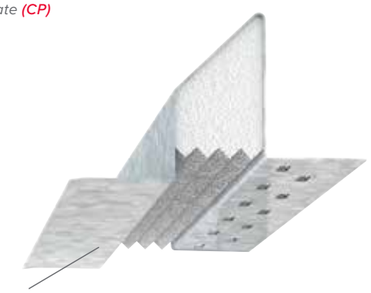

### CP

Where the underside of the lintel is completely exposed, e.g. porches, driveways, etc., a closer plate can be welded prior to galvanizing to provide a neat, aesthetically pleasing finish to the soffit of the lintel.

To specify, add 'CP' to the end of the lintel reference e.g. CB50 CP.

### ST

Inner and outer leaf flanges can be staggered to allow for uneven coursing. Please contact our Technical Department for further information.



**Need technical advice?**

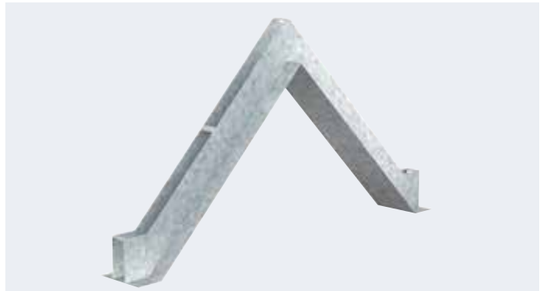
Speak to our technical team
**0845 121 4542**

Using the same manufacturing process as our standard lintel range, our bespoke lintels are hot-dip galvanized after manufacture to ensure total protection against corrosion.

## Bespoke Designs

Our in-house team of engineers are happy to consider any project no matter how complex the lintels may seem, however the following shapes are most common.

To enquire about a purpose made lintel, please contact our technical department, or use the enquiry submission form at **birtleylintels.co.uk**



### Apex Arch Lintel

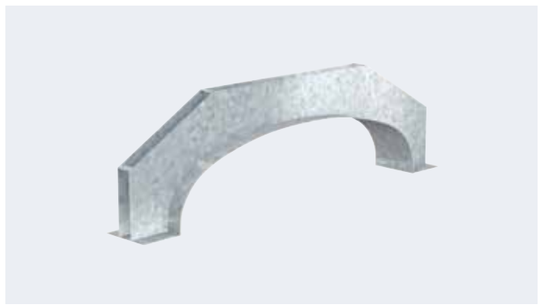
Available in single or multi-leaf versions.
Information required:
Wall construction, Clear Span, Arch rise.

### Gothic Arch Lintel

Available in single or multi-leaf versions.
Information required:
Wall construction, Clear Span, Arch rise, Radius.

### Semi-Circular Arch Lintel

Available in single or multi-leaf versions.
Information required:
Wall construction, Clear Span/diameter.



### Segmental Arch Lintel

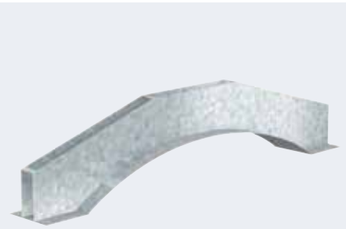
Available in single or multi-leaf versions.
Information required:
Wall construction, Clear Span, Arch rise, Mid-Radius, End-Radius.



BIRTLEY LINTELS
**BESPOKE DESIGNS**

**Can't find what you're looking for?**

Speak to our technical team
**0845 121 4542**

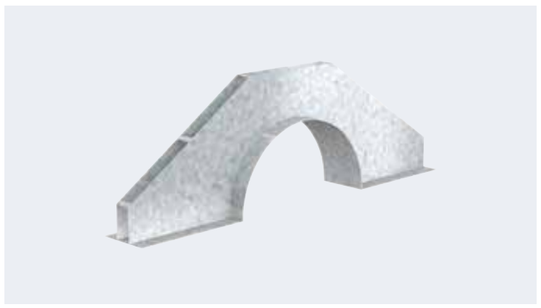


### Arch Lintel

Available in single or multi-leaf versions.
Information required:
Wall construction, Clear Span, Arch rise, Radius.

### Mitred Lintel

We offer a bespoke design service for mitred and bay lintels to suit any angle, load or application. Mitred lintels can be bolted or welded together, and are customisable to each customer's needs.
A full set of architectural drawings must be submitted to our Technical Department with each enquiry.



### Extended Arch Lintel

Available in single or multi-leaf versions.
Information required:
Wall construction, Clear Span, Arch diameter (span)

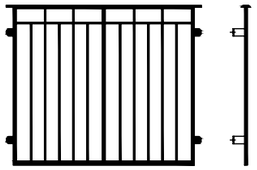
### Curved-on-Plan Lintel

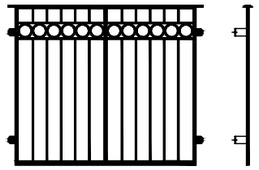
Radius lintels are used for openings within a curved wall. They usually require an increased end bearing and careful design consideration.
A full set of architectural drawings must be submitted to our Technical Department with each enquiry.

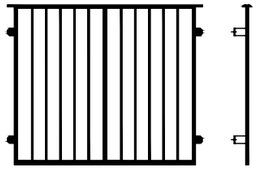
**Need technical advice?**
Speak to our technical team
**0845 121 4542**

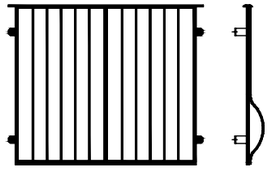
## Outstanding Style, Safety & Economy

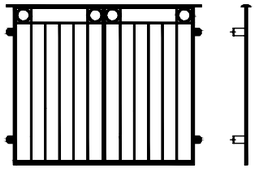
The versatile Birtley range of 'Juliet' Balconies offers eight attractive and practical styles to choose from plus further 'custom-design' options. Their sturdy construction delivers uncompromised safety and all are hot-dip galvanized for maximum durability. Installation is quick and simple offering you a truly economical and versatile solution that can be easily 'built-in' to your design schemes.

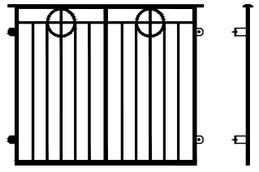

Sorrento

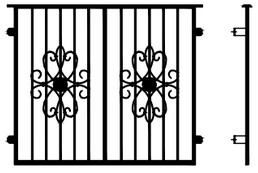

Roma

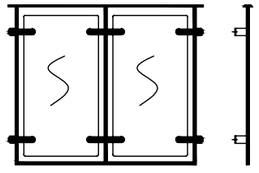

Verona


Pisa


Napoli


Siena


Milano


Firenza (Glazed)

### Features

- Hot-dip galvanized for complete durability
- Optional powder coating
- Available in 3 sizes, (2, 3 & 4 panels)
- Choice of 8 infill panels
- Dimensions meet Building Regulations and NHBC requirements
- Frames and infill panels are stocked at Birtley for fast turnaround and allow for modular construction
- Supplied with protective covering to be removed after installation
- Special designs also available
- Balconies can be face fixed, using expanding bolts or chemical anchors. Alternate fixing methods available for render or tile-hung finishes.

### Approximate Weights

- 2 panels: 34kg
- 3 panels: 50kg
- 4 panels: 67kg





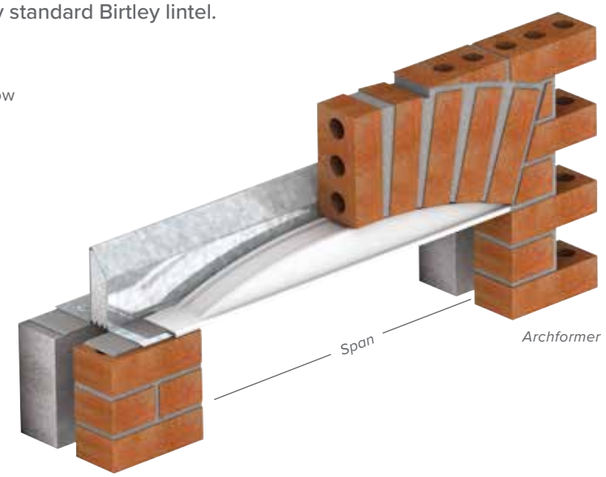
**Can't find what you're looking for?**
Speak to our technical team
**0845 121 4542**

In order to improve the appearance of any window opening, we offer a range of PVC ancillaries which can be used with any standard Birtley lintel.

## Archformer

Supports arched soldier course over standard door and window openings. Can be used with all standard external wall lintels.

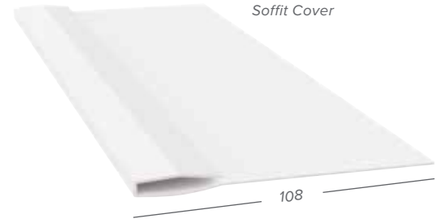
| Span | Opening Width | Rise |
|---|---|---|
| 475 | 450-500 | 75 |
| 575 | 550-600 | 75 |
| 625 | 600-650 | 75 |
| 675 | 650-700 | 75 |
| 775 | 750-800 | 75 |
| 925 | 900-950 | 75 |
| 1025 | 1000-1050 | 75 |
| 1075 | 1050-1100 | 75 |
| 1125 | 1100-1150 | 75 |
| 1225 | 1200-1250 | 75 |
| 1375 | 1350-1400 | 75 |
| 1525 | 1500-1550 | 75 |
| 1575 | 1550-1600 | 75 |
| 1675 | 1650-1700 | 75 |
| 1775 | 1750-1800 | 75 |
| 1925 | 1900-1950 | 150 |
| 2025 | 2000-2050 | 150 |
| 2125 | 2100-2150 | 150 |
| 2225 | 2200-2250 | 150 |
| 2375 | 2350-2400 | 150 |
| 2425 | 2400-2450 | 150 |
| 2725 | 2700-2750 | 150 |
| 2975 | 2950-3000 | 150 |
| 3325 | 3300-3350 | 150 |




## Soffit Cover

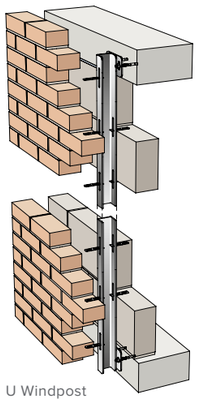
Manufactured from UPVC, the soffit cover fits over the front flange of standard lintels to provide an aesthetically pleasing finish to the exposed soffit of the lintel.
Available in white only. Sold in packs of 20no.

| Lengths Available |
|---|
| 900 |
| 1200 |
| 1500 |
| 1800 |
| 2100 |
| 2400 |
| 2700 |
| 4500 |

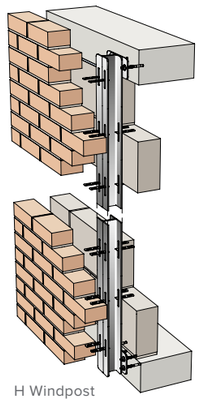



## BAT Windpost Systems

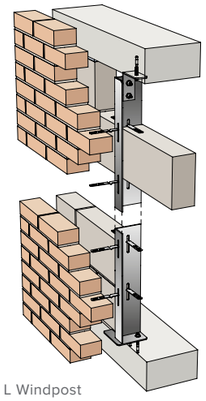
BAT Windposts are designed to offer an alternative, cost effective method of providing the additional stiffness that a masonry wall requires as specified by the Structural Engineer.



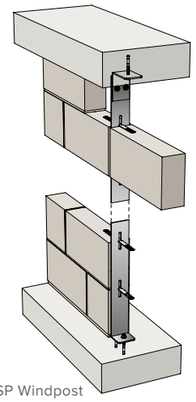
U Windpost



H Windpost



L Windpost



SP Windpost

### Windpost Types

Four types of BAT Windposts are manufactured in a range of section sizes and steel thicknesses to withstand applied wind loadings. Base and top fixing configurations can be specified to allow for varying methods of construction and loading requirements.

### U Section

U Section Windposts fit within the wall cavity and normally span between floor structures.

### H Section

H Section Windposts serve the same purpose whilst allowing for heavy duty applications. Both U and H windposts leave the inner leaf of the cavity wall undisturbed.

### L Section

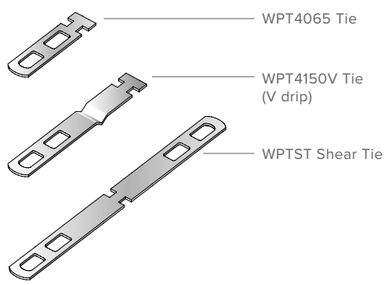
L Section Windposts are designed to minimise intrusion into the cavity. One leg of the post is built into the inner leaf blockwork and tied with wall ties to both leaves to minimise any possible movement of the structure.

### Spine Posts

Spine Posts are generally used for internal fair-faced walls. The post is a flat plate that can be built between blockwork panels and does not protrude beyond either finished face. Posts are usually 20mm narrower than the wall width with any additional load requirements provided for by an increase in the thickness of the post. Blockwork is tied through the post, the design allowing for the inclusion of debonded movement ties if required.

### Windpost Wall Ties

All BAT Windposts are supplied with the correct number of wall ties and fixings. All wall ties comply with
BS EN 845-1 Specification for ancillary components for masonry - Part 1.1.



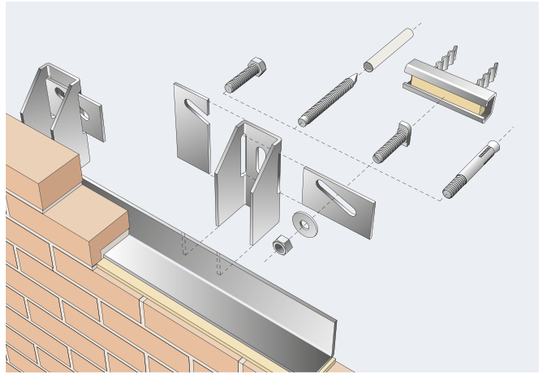


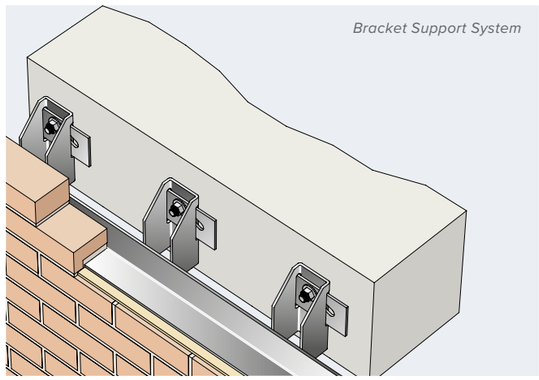




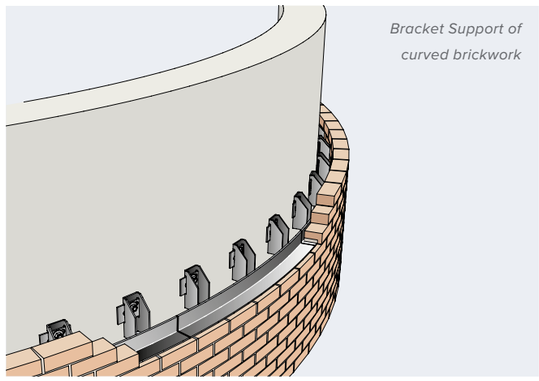

## BAT Bracket Support Systems

Masonry support systems provide the method of controlling the uninterrupted height of masonry panels and accommodating differential vertical movement between masonry cladding and framed structures.





*Bracket Support System*



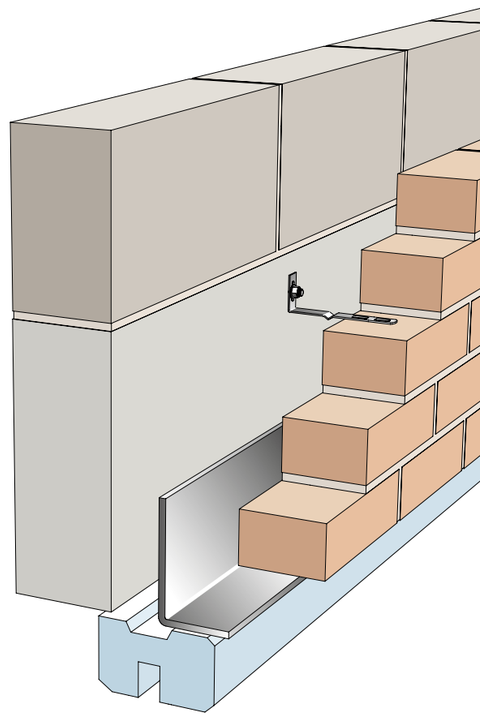
*Bracket Support of curved brickwork*

### BAT Masonry Support

BAT Masonry Support is a range of bespoke systems designed to carry masonry cladding fixed to steel or concrete structures.

- BAT Bracket and BAT Angle Support Systems can be tailored to meet customer's design and engineering considerations.
- The BAT Angle Support Systems can carry up to 9m of brickwork and accommodate various cavity widths.
- Individual bracket supports, suspended masonry, top hung brackets and curved angles can be specified.
- The BAT Stone Support System complies with BS 8298 and is designed to suit natural stone cladding in a range of sizes and thickness.

Please contact us for further information.



# REGULATIONS
# INSTALLATION

**Need technical advice?**

Speak to our technical team
**0845 121 4542**

## General Installation Guidance

- Before attempting to install any lintel, please ensure that it is of the correct type, length, and is free from defects or damage. Do not attempt to cut or modify any lintels without prior approval and/or guidance from our Technical Department.

- Steel lintels should be installed with a minimum 150mm end bearing at each end. There are exceptions where 100mm is sufficient, though this should be confirmed by our Technical Department or a qualified structural engineer. Extended bearings may also be necessary for purpose made lintels, though this is clearly indicated during the design process.

*Fig 1*


- Lintel bearings should be constructed from full, uncut masonry units, of sufficient strength to support the imposed loads. Concrete padstones may be required where the end reactions are high and low strength masonry units are used.

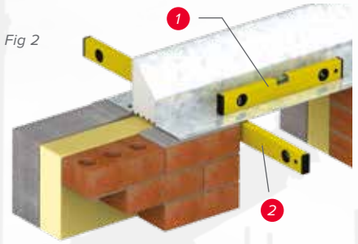
- Lintels should always be fully bedded on bricklaying mortar, which should be allowed sufficient time to cure before adding load to the lintel. Propping may be used to facilitate a faster construction process or higher rate of lift. Propping, unless otherwise specified, should be carried out at the discretion of the contractor, and with reference to the recommendations of BRE's good building guide issue 1, 10 & 15. Props should be installed after the initial masonry load has been applied and left in situ until all masonry/roof loads are in place.

- Inner and outer leaves (where applicable) should be raised equally to prevent eccentric loading during construction. Masonry should be laid on a consistent mortar bed with perpend joints fully filled. Masonry should be allowed to cure before any roof or floor loads are applied.

- Propping is mandatory for some external wall and timber frame lintels – Details can be found on the appropriate product pages.

- Once laid, the lintel should be levelled along its length (1) and width (2) using a spirit level or other suitable levelling device.

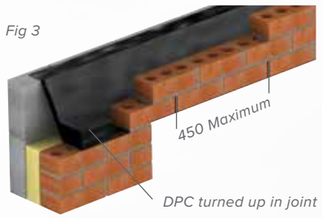
*Fig 2*




- Make sure that cavity width limits are not exceeded and that masonry does not overhang lintel flanges by more than 25mm (NHBC). Masonry overhang can be increased in certain circumstances. Please contact our Technical Department for further guidance.

- Lintels intended for external walls must project beyond the window head to prevent water ingress. Window frames should be sealed to the underside of the lintel using a suitable frame sealant when appropriate.

*Fig 3*




## All External & Cavity Walls

- A cavity tray must be used over all lintels. Where a DPC is used, it must be turned up into a perpend joint or be used with proprietary stop ends. Weep vents must be used at a maximum 450mm interval, with a minimum of two per opening. See fig 3.

## CB / Eaves

- Point loads and floor joists should not bear directly onto the lintel. A full course of bonded blockwork is required between structural members and the lintel flange. Where joists are at the same level as the flange, a proprietary joist hanger can be used to transfer the load to a course above. Eaves lintels require a continuous wall plate bedded onto fully bonded/cured masonry, and propping to prevent rotation.

## Open Back / Heavy Duty

- Where a lintel is open-backed e.g. HD/HDX, it must be fully filled with bonded masonry, ensuring that it is built tightly against the vertical face of the lintel. All masonry must be fully cured before imposing concrete floor loads.

- Precast concrete floor units must be laid on a full bed of mortar, and should be placed carefully to avoid shock loading.



# REGULATIONS
# HEALTH & SAFETY

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## Health & Safety

A practical, common sense approach should be adopted by personnel handling lintels and steel products. A maximum of 25kg should be carried by a single person.

If possible, mechanical lifting aids should be used in place of manual handling. All lintels should be considered heavy with the possibility of sharp edges. A practical risk assessment should be carried out before attempting to lift, push, pull or drag the product. Personal Protective Equipment (PPE) must be worn and should, as a minimum, include gloves, safety boots and hard hat.

Lintel and steel products should be installed by appropriately skilled and qualified tradesman following the installation instructions as detailed in this technical guide.

## COSHH

In their finished state, lintels and steel products in general do not present a health hazard by inhalation, ingestion or contact. They are therefore considered non-hazardous under normal conditions of use, as determined by COSHH regulations 2002.

We do not recommended modification of these products once manufactured, but under certain circumstances minor modifications may be allowed. This may involve processes such as burning, welding, cutting or grinding which can result in vaporizing of the zinc metal and/or generation of airborne particles which may present hazards. These operations should be performed in well-ventilated conditions or with local exhaust ventilation. Exposure limits are as recommended by the UK Health & Safety executive and users should refer to guidance note EH40:2005 for the information on these limits. Suitable personal protective equipment should be worn at all times.

## Disposal

Mild and Stainless Steel is 100% recyclable. Please contact your local recycling centre/scrap metal merchant for more information.

## Handling

- Lintels should be stacked on battens of seasoned dry timber (non-resinous), extruded rigid plastic, or placed on purpose made steel racking.

- Circulating air flow around each lintel will prevent any build-up of moisture on the lintels, and reduce the likelihood of wet storage stain for newly galvanized products.

- The stacked weight distributed on a lintel or pack of lintels must never exceed the load capacity of the lintels. The loading on each 2'' wide stacking batten should not exceed 750 kg.

- Lintel packs should never be lifted by the banding around them.

- Lintels should be arranged so that stacks of lintels are stable and safe for personnel working in the vicinity.

- Where ground conditions are soft and there is any significant gradient, it is advisable to stack lintels no more than 3 rows high.

- Care should be taken to wear gloves to avoid cuts and abrasions on any sharp points that may be present on cut edges of the lintel.

## Maintenance

Once installed, lintels are usually maintenance free for the life of the galvanized coating. More details can be found at the beginning of this brochure. If the coating does require maintenance or repair, a suitable exterior metal paint system should be used and applied in accordance with the manufacturer's recommendations.

# REGULATIONS
# COMPLIANCE

**Need technical advice?**

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## Product Standards

EN845-2:2013 Specification for ancillary components for masonry Part 2: Lintels.
EN1090-1:2009+A1:2011 Execution of steel structures and aluminium structures Part 1: Requirements for conformity assessment of structural components.
BS EN ISO 3834-2/3:2005 Quality requirements for fusion welding of metallic materials. EN ISO 13920:1997 Welding. General tolerances for welded constructions.
BS EN 13163:2012+A1:2015 Thermal insulation products for buildings. Factory made expanded polystyrene (EPS) products.

## Fabricated Items

Since 1st July 2014, it has been a requirement that steel fabrications for structural use are CE marked to EN 1090. This standard ensures that manufacturers operate a strict welding quality management system, with all operatives fully qualified to carry out specific connections using the materials specified. Our processes, procedures and qualifications are assessed on an annual basis by BSI to ensure that quality standards remain consistently high. Our accreditation covers structures and fabrications up to and including Execution Class 2.

## Testing

Our standard range of lintels to BS EN 845-2 has been subject to structural testing in accordance with BS EN 846-9:2000 and previously BS5977-2. All structural testing has been carried out independently by Lucideon Structures Laboratory (NB:0013) and The University of South Wales (NB:1014). Fire tests were carried out in accordance with BS 476 by Exova Warrington Fire (NB:0249).

## Quality Systems

BS EN ISO 9001:2008/2015 BSI Accredited Quality management system.

BS EN ISO 14001:2004/2015 BSI Accredited Environmental management systems.

## CE Marking

Since 1st July 2013, it has been a legal requirement that any construction product under the scope of a Harmonised European Standard (hEN) or European Technical Approval (ETA) must be CE marked.

The significance of CE marking is in its declaration of conformance to the full normative text of the product standard which relates to all essential requirements of the EU Construction Products Directive, and more recently, the Construction Products Regulation (No.305/2011). CE marking can't be superseded or conflicted by any other 3rd party accreditation and is the primary assessment criterion of product conformity as used in the Building Regulations document 7 and by the NHBC.

A requirement of compliance is providing a declaration of performance certificate (DoP) which contains the essential characteristics as dictated by the hEN or ETA, for each individual product type. DoPs are available to download via our website birtleylintels.co.uk.

## Kitemark

In addition to statutory requirements, various ranges are also accredited to carry the BSI kitemark. This means that our processes are monitored and structural audit tests carried out on a regular basis to ensure that our lintels are still as safe as when they were first developed.

*All accreditations and other compliance details are correct at time of going to print. (Jan 17). Please refer to website for full details.*



# REGULATIONS
# GLOSSARY

**Can't find what you're looking for?**

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**Lintel**
A structural member or beam which spans an opening in a wall.

**Schedule**
A dwelling specific bill of quantities as specified by Birtley's Technical Dept.

**Bearing**
The portion of supporting wall onto which the lintel sits.

**Span**
The clear opening between lintel support bearings.

**Effective Length**
The distance between the centre point of each bearing.

**UDL**
Uniformly Distributed Load. A constant line load for a single leaf over the effective length of the lintel.

**Partial UDL**
A UDL for a portion of the effective length.

**Point Load**
A load imposed directly onto a lintel by a single structural member.

**Dead Load**
This is the sum of all permanent loads supported by the lintel. It is the self-weight of all structural and non-structural elements which form part of a finished building.

**Live Load**
Variable actions which are imposed on the building by its inhabitants/furniture or the weather/snow etc.

**Deflection**
The vertical displacement of a lintel compared with its unloaded position. For a UDL, deflection is measured at the mid-point of the span, at the mid-point of the flange.

**Safe Working Load**
The total uniformly distributed load which a lintel should support, at a specified load ratio, which incorporates a safety margin against structural failure and excessive deflection. This relates to Serviceability Limit State design.

**FEA**
Finite Element Analysis is a computerized method for simulating how a product reacts to real-world forces.

**SAP**
The Government's Standard Assessment Procedure for Energy Rating of Dwellings.

**Fabric**
The structural materials, cladding, insulation and finishes which enclose the internal spaces of a dwelling i.e. those which separate inside from out.

**ACD**
Accredited Construction Details as calculated by a person with suitable expertise and experience using the guidance set out in BR 497and BRE IP 1/06.

**Temperature Factor**
The minimum internal surface temperature divided by the difference in temperature between inside and outside. This should exceed 0.75 to minimise the risk of mould growth.

**CAD**
Computer Aided Design

**Supergalv**
A Hot-dip Galvanized coating, 65 microns to EN1461

**Ultragalv**
A Hot-dip Galvanized coating, 150+ microns to EN1461

**Corrosion Rate**
The thickness of zinc consumed per annum based on location, as determined by the Atmospheric Corrosion Rate of Hot-Dip Galvanizing Map - © Galvanizers Association