Technical Data Sheet

BSL

Product overview

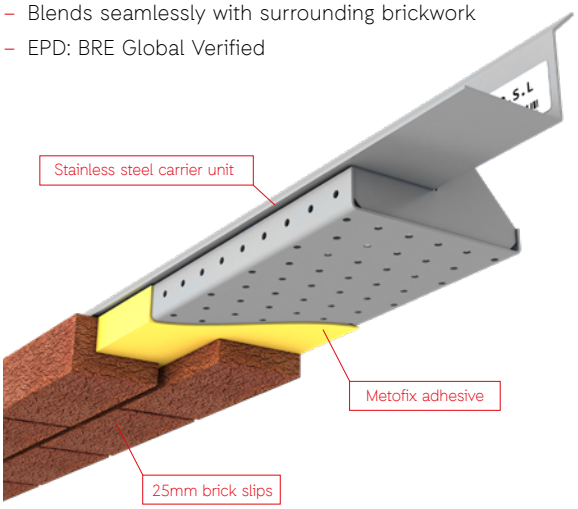
IG's Brick Slip Lintels (BSL) are lightweight, stainless steel prefabricated units designed for openings of up to 3.6 metres (for longer spans, please contact our Technical Team). These BBA-approved units are engineered offsite and delivered with brick slips expertly bonded to the stainless steel carrier unit, ensuring seamless integration with onsite brickwork.

Lintels, gusset plates and perforated soffit plates are manufactured using either 304/304L Austenitic Stainless Steel (1.4301/1.4307) and 316/316L (1.4401/1.4404) on request or galvanised and powder-coated steel (DX51D). The brick slip facade is manufactured from 25mm-thick brick slips cut from standard brick masonry units (EN 711-1 or EN 771-2) and bonded to the soffit plate using 3mm-thick Metofix 3:1 adhesive.

Brick Slip Lintels are only suitable for buildings under 18m in England, Wales and Northern Ireland and 11m in Scotland. **For buildings exceeding these heights, please contact our Technical Team for an A1 fire-rated solution.**

Enhanced features

- Simplicity of installation
- No brick cutting required onsite
- Support steelwork completely hidden
- Onsite adjustability on three planes
- Various bond patterns and soffit sizes available
- Blends seamlessly with surrounding brickwork
- EPD: BRE Global Verified



Product design and testing

IG Brick Slip Lintels have been independently tested by Third Party Organisations and Technical Approval Bodies to evaluate and validate the physical performance and long term durability of all components as well as ensure the products are fit for purpose and conform to regulations.

Key factors assessed by the BBA (British Board of Agrément)

Properties in relation to fire
Galvanized steel and stainless steel profiles, and brickwork with less than 1% organic content can be considered to be class A1 reaction to fire without testing, in accordance with BS EN 13501-1:2018. Metolux Metofix 3:1 adhesive is unclassified for reaction to fire, in accordance with BS EN 13501-1:2018.

In England, Wales and Northern Ireland, the products may be used on buildings at any proximity to a boundary. For buildings with a storey more than 18m above the ground, designers should consider the impact on the risk of fire spread over the wall.

The system should not be used on buildings in England and Wales that have a storey at least 18m above ground level and contain: one or more dwellings, an institution, a room for residential purposes (excluding any room in a hostel, hotel or boarding house), student accommodation, care homes, sheltered housing, hospitals or dormitories in boarding schools).

In Scotland, the system may be used on buildings with no storey at a height of more than 11m above the ground and more than 1m from the boundary. With minor exceptions, the system should be included in calculations of unprotected area.

Structural performance
Typical IG Brick Slip Lintels are suitable for use in walls with clear openings of up to 3600mm. The following conditions apply and must be considered during the design phase:

- The size of standard masonry units and clear span are not exceeded
- The specified loads given relate to simply supported lintels laterally and torsionally unrestrained. Therefore, there are no requirements for composite action with, or restraint by, adjacent elements of construction including the supported masonry
- Where part of the loading is applied as concentrated loads, each concentrated load must be supported over a length of lintel of not less than 200mm. In such cases, a case specific design by an appropriately qualified individual must be completed.

Thermal performance
Where the system is used around opening head junctions, it can adequately limit heat loss, as assessed by the BBA.

Condensation risk
Where the system is used around opening heads, the risk of interstitial condensation will be minimal, as assessed by the BBA.

Durability
Provided that the system is designed, installed and used in accordance with its BBA Certificate, it will have a service life of at least 60 years.

IG Masonry Support has committed to ongoing internal testing and regular surveillance of production in order to assess:

- Brick quality
- Bond strength

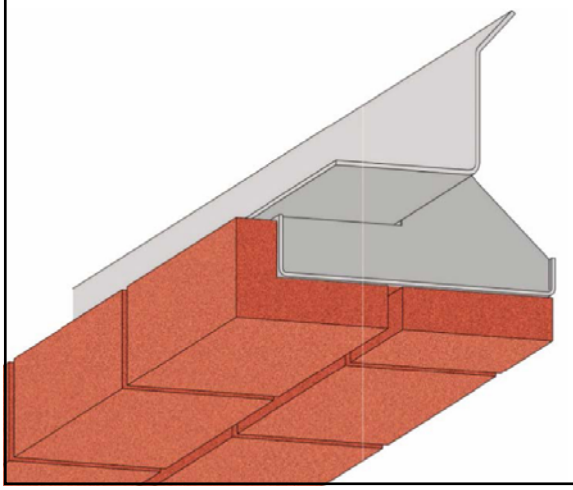
The certificate will be reviewed by the BBA and as when it considers appropriate.

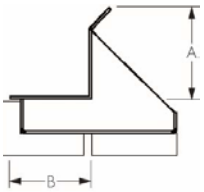
Product Sheet 1: BBA Certificate

Design considerations

IG Brick Slip Lintels create spectacular brick soffits over window heads and openings, with a wide range of bond patterns. The system is available to suit different load situations as well as many profiles of which three are shown below.

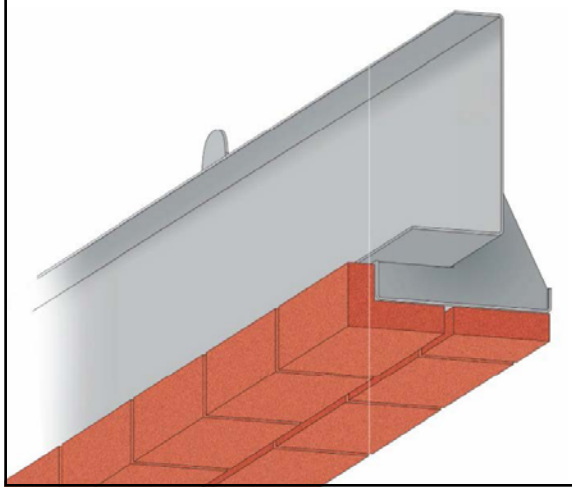
1 BSL

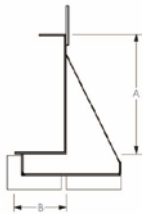




Maximum overall length of lintel | 1500mm
Maximum length of brick slip zone | 1200mm
Height of lintel (dimension A) | 110mm
Height of lintel (dimension B) | 95mm
Thickness of lintel | 3mm
Mass of steel | 12.33kg•m^{-1}
Mass with brick slip | 23.73kg•m^{-1}

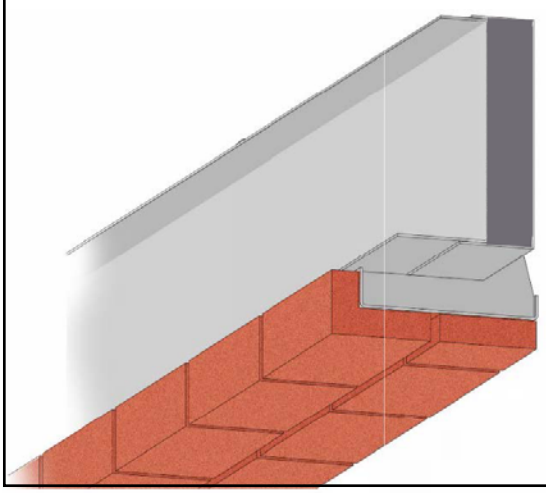
2 HDBSL





Maximum overall length of lintel | 2800mm
Maximum length of brick slip zone | 2500mm
Height of lintel (dimension A) | 225mm
Height of lintel (dimension B) | 95mm
Thickness of lintel | 3mm
Mass of steel | 17.99kg•m^{-1}
Mass with brick slip | 29.39kg•m^{-1}

3 XHDBSL



Maximum overall length of lintel | 3900mm
Maximum length of brick slip zone | 3600mm
Height of lintel (dimension A) | 225mm
Height of lintel (dimension B) | 135mm
Thickness of lintel | 3mm
Mass of steel | 28.36kg•m^{-1}
Mass with brick slip | 39.76kg•m^{-1}

Typical Design Solutions

BSL Stretcher 65-327
Units to create a stretcher bond can be designed to suit a one, two and three brick deep soffit.

BSL Header 65-215
Units to create a header bond can be designed to suit a one, two and three brick deep soffit. The header bond detail on the BSL unit differentiates the soffit from the brickwork on the main façade.

BSL Rowlock 102-215
Units to create a rowlock bond can be designed to suit a one, two and three brick deep soffit. The rowlock bond detail on the BSL unit differentiates the soffit from the brickwork on the main façade.

BSL Soldier 215-215
Units to create a soldier bond can be designed to suit a one, two and three brick deep soffit. The soldier bond detail on the BSL unit differentiates the soffit from the brickwork on the main façade.

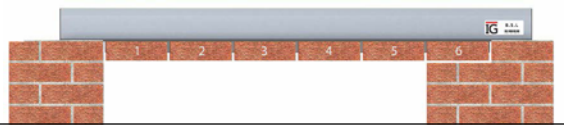
BSL Half Lap Bond 215-327
Units to create a half lap bond can be designed to suit a one, two and three brick deep soffit. The half lap bond detail on the BSL unit differentiates the soffit from the brickwork on the main façade.

Brickwork coordination

IG Brick Slip Lintels are supplied with one additional brick per opening width which allows the installer to match the lintel with the brick bonding on the surrounding façade (see Figure 1 to 3).

1 Typical front view to suit a five brick wide 1135mm opening

2 Brick Slip Lintel installed on a full brick opening



3 Brick Slip Lintel installed on a half brick opening

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Metofix 3:1

IG Masonry Support utilise Chemfix Metofix 3:1 adhesive to secure brick slips to the Brick Slip Lintel stainless steel carrier unit. Metofix 3:1 adhesive is a BBA-approved product designed for 'face-up' applications.

Specification Clauses

IG Masonry Support's Brick Slip Lintel units are designed and manufactured to suit each project. Various bond patterns and soffit sizes are achievable.

Full specification data can be found on NBS Source.

Sustainability

IG Masonry Support's Brick Slip Lintels are certified by BRE's Verified Environmental Product Declaration Scheme in accordance with the requirements of EN 15804:2012+A1:2013 and BRE Global Scheme Document SD207.

Full environmental data can be found on IG Masonry Support's Statement of Verification (BREG EN EPD No 000457).

Brick cutting

Brick cutting for all IG Masonry Support brick slip systems is carried out at our dedicated Brick Cutting Facility in Overseal, South Derbyshire. Suitability of bricks is determined at quotation stage and delivered to the Brick Cutting Facility in advance of manufacturing.

ISO 9001:2015

IG Masonry Support has strict control measures to ensure the highest quality of product and manufacturing. The company is certified by the BBA (British Board of Agrément) in accordance to BS EN ISO 9001:2015 and EN 1090-1:2019.

Installation training

Correct installation is essential for the success of each project. Therefore, IG Masonry Support have made every effort to help installers by creating an easy-to-use installation guide for Brick Slip Lintels.

IG Masonry Support also offers onsite installation training and support from its experienced team of structural and civil engineers.

Specifying and ordering

IG Masonry Support's designers and engineers provide a complete 2D CAD design and structural engineering service and will develop your concept into quality, cost effective prefabricated brick slip soffit solutions.

Brick Slip Lintel Sales and Enquiries

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