

B.O.S.S. ^{A1}
BRICK ON SOFFIT SYSTEM

Product overview

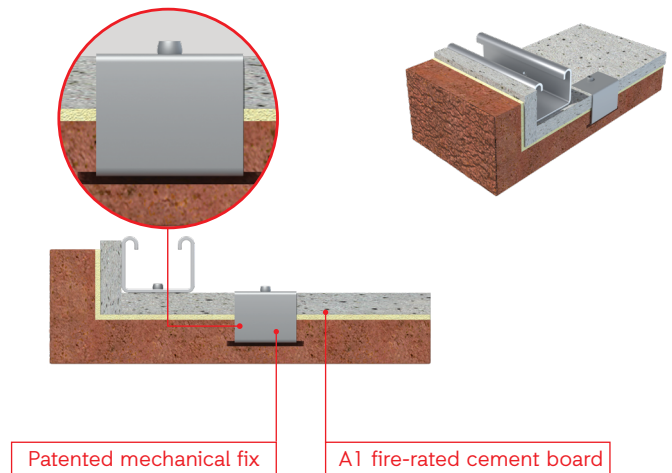
B.O.S.S. A1 is a prefabricated brick slip soffit system designed to be bolted to IG's Welded Masonry Support (WMS) and steel lintels to create deep reveals, soffits and flying beams on masonry façades. Manufactured offsite, the prefabricated components are delivered to site complete with brick slips adhesively bonded and mechanically secured to the brick carrier unit.

Channels and carrier units are manufactured from 304/304L Austenitic Stainless Steel (1.4301/1.4307) and 316/316L (1.4401/1.4404) on request. The brick slip façade is engineered from 25mm thick brick slips cut from standard brick masonry units to BS EN 771-1:2011 or BS EN 771-2:2011, which are then secured to the brick carrier with a stainless steel mechanical fix.

All components of the system are classified as A1 in accordance with [BS EN 13501-1:2018](#) and its use is unrestricted in terms of building height and distance to the boundary by the National Building Regulations.

Key Features

- A1 fire classification tested in accordance with BS EN 13501-1:2018
- Mechanically fixed brick slips
- Onsite adjustability on three planes
- Various bond patterns and soffit sizes available
- EPD: BRE Global Verified



Product design and testing

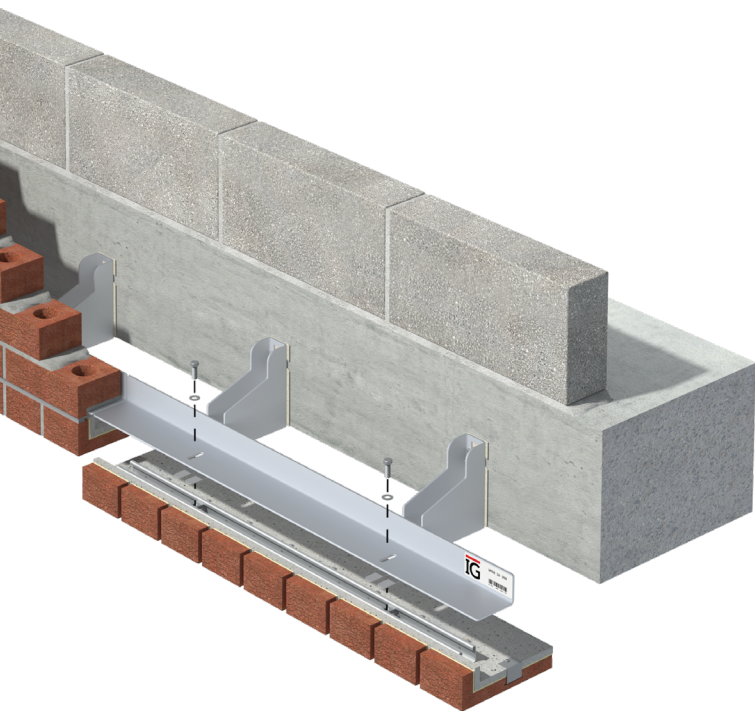
B.O.S.S. A1 has been independently tested by the British Board of Agrément to evaluate and validate the physical performance and long term durability of all components as well as ensure the products are fit for purpose and conform to regulations.

Hygrothermal testing

The B.O.S.S. A1 units were tested to demonstrate structural performance, following a period of accelerated weathering. The bond strength of the system was evaluated after being subjected to hygrothermal conditioning in accordance with EAD090062-00-0404. The testing involved subjecting the B.O.S.S. A1 units to repeated heat /rain cycles, followed by repeated freeze/thaw cycles at a controlled temperature and humidity, all designed to simulate naturally occurring conditions. Following the weathering, pull-off tests were performed on the B.O.S.S. A1 units.

The testing involved:

- Cyclic heat /rain weathering to [ETAG 034](#) conditions
- Freeze/thaw cycling to [TS EN 772-22](#) conditions
- Tensile testing to [BS EN 1015-12](#)



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

Properties in relation to fire

All components of the system are classified as A1 in accordance with [BS EN 13501-1:2018](#) and its use is unrestricted in terms of building height and distance to the boundary by the National Building Regulations.

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:

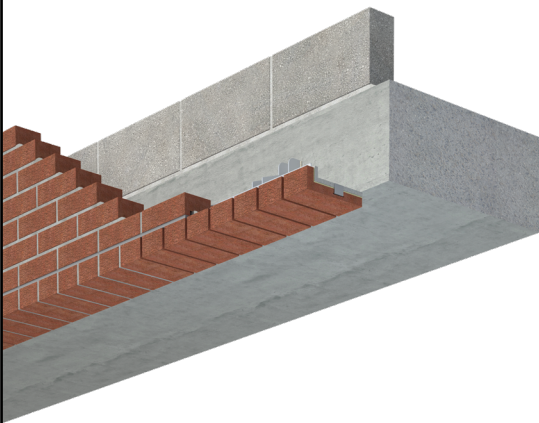
- Brick quality
- Bond strength

Full information on the assessment carried out by the British Board of Agrément on B.O.S.S. A1 can be found in [Agrément Certificate 15/5250: Product Sheet 5](#).

Design considerations

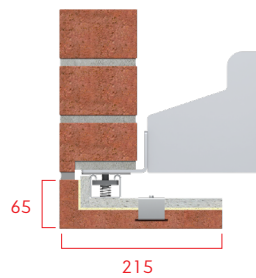
B.O.S.S. A1 is available in many profiles, four of which are shown below. Bespoke solutions including other brick arrangements can be designed to suit specific project requirements.

1 Header Bond 65 x 215mm



The example header bond B.O.S.S. A1 unit weighs approximately 18.6 kg. Actual unit weights vary by size and brick type and are specified on the product label.

This solution is used to create header details at openings and reveals. The header bond detail on the B.O.S.S. A1 unit differentiates the soffit from the brickwork on the main façade.

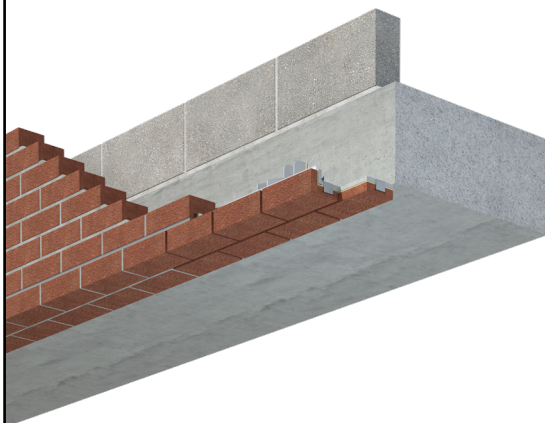


End view



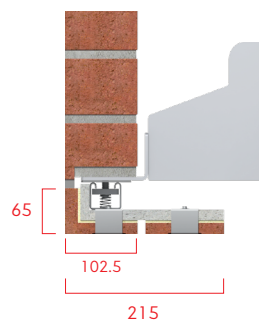
Front elevation

2 Stretcher Bond 65 x 327mm



The example stretcher bond B.O.S.S. A1 unit weighs approximately 11.9 kg. Actual unit weights vary by size and brick type and are specified on the product label.

Used to create deep soffits providing continuity with the brickwork on the main façade. Adjacent soffit units are designed to interlock, blending seamlessly together once the brickwork is pointed.

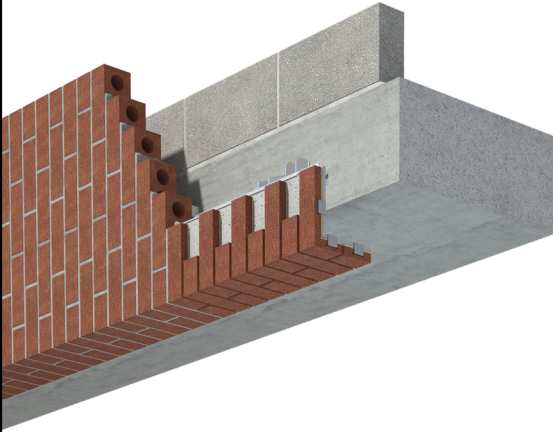


End view



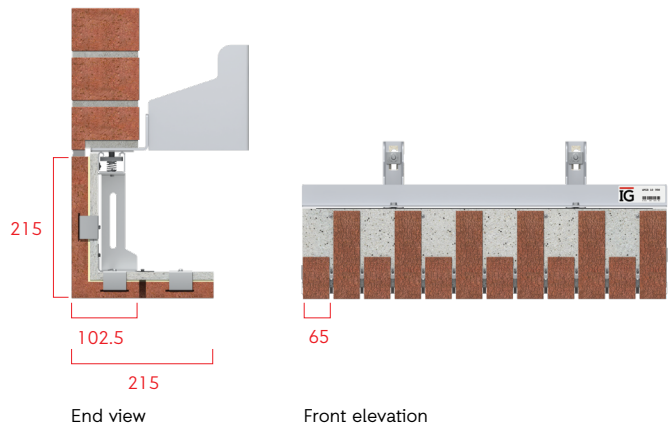
Front elevation

3 Half Lap Bond 215 x 215mm

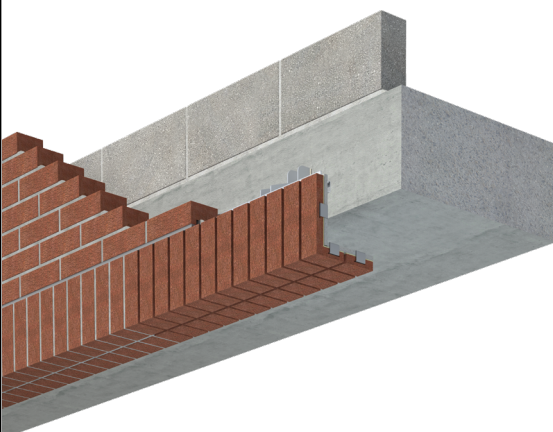


The example half lap bond B.O.S.S. A1 unit weighs approximately 21.9 kg. Actual unit weights vary by size and brick type and are specified on the product label.

This solution is used to create half lap bond details at openings and reveals. The half lap bond detail on the B.O.S.S. A1 unit differentiates the soffit from the brickwork on the main façade.

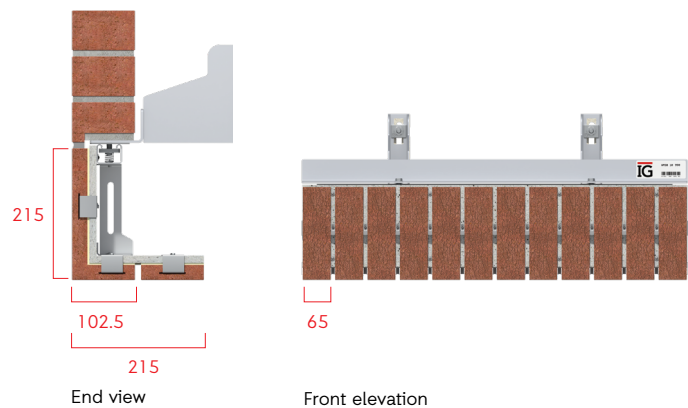


4 Soldier Bond 215 x 215mm



The example soldier bond B.O.S.S. A1 unit weighs approximately 24.1 kg. Actual unit weights vary by size and brick type and are specified on the product label.

This solution is used to create soldier bond details at openings and reveals. The soldier bond detail on the B.O.S.S. A1 unit differentiates the soffit from the brickwork on the main façade.



Adjustability

B.O.S.S. A1 is designed to be fitted to the underside of IG's Welded Masonry Support (WMS) and steel lintels and offers adjustability on all three planes.

Horizontal adjustment (X)

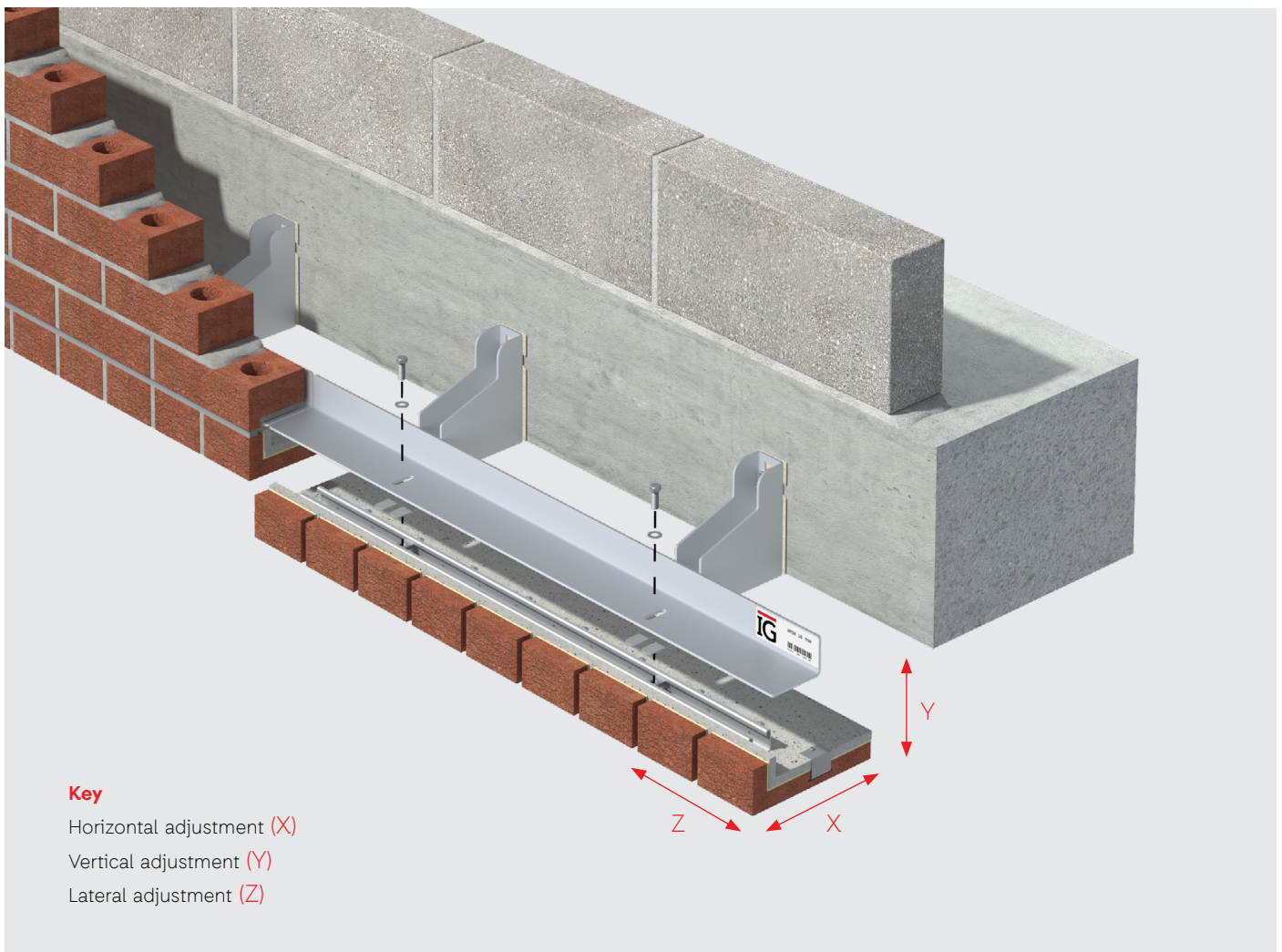
Horizontal adjustment can be achieved by utilising the channel on the B.O.S.S. A1 unit and simply moving the unit from left to right.

Vertical adjustment (Y)

Vertical adjustment can be achieved by inserting stainless steel packers between the Welded Masonry Support or steel lintel system and the B.O.S.S. A1 unit under shelf angle.

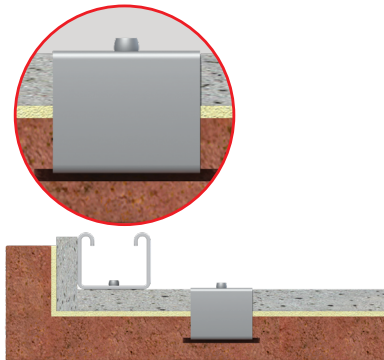
Lateral adjustment (Z)

Lateral adjustment is achieved by utilising the slotted hole located on the shelf angle or lintel. Adjustment provided is +/-15mm. Once alignment and levels are correct, bolts should be torqued to 20 Nm as per Construction Issue Drawing provided by IG Masonry Support.



Mechanical fix

For added security, the brick slips on B.O.S.S. A1 units are secured to the brick carrier with a stainless steel mechanical fix.



Specification clauses

IG Masonry Support's B.O.S.S. A1 units are designed and manufactured to suit each project. Various bond patterns, soffit sizes and finishes are achievable. Full specification data can be found on NBS Source.

Sustainability

IG Masonry Support's B.O.S.S. A1 classifies as a [Carbon Neutral Product](#) and was achieved via the offset of 296 tonnes CO₂e in September 2020.

The product is also 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 \(BREG EN EPD No 000456\) on our website](#).

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.

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 from site to the Brick Cutting Facility in advance of manufacturing.

Safety

While IG B.O.S.S. A1 units are easy to handle the components are produced from sheared plates and may have sharp edges. Care must be taken when handling units and suitable workwear should be worn at all times.

When lifting or carrying a B.O.S.S. A1 unit, you should undertake a personal risk assessment paying attention to the size and weight of the product which is clearly detailed on each product label and each 1200mm by 800 mm pallet delivered. To avoid lifting strains and product damage, all units must be lifted by at least two people or alternatively by mechanical means.

Disposal

B.O.S.S. A1's steel and brick components are fully recyclable, minimising waste and reducing its carbon footprint at the end of its service life. Thermal Shims should be safely disposed of in landfill.

Installation training

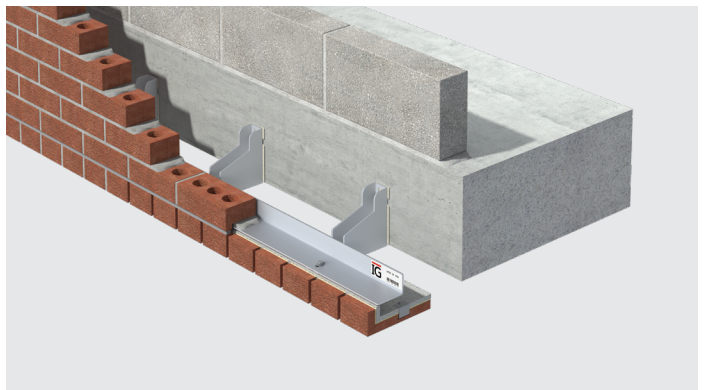
Correct installation is essential for the success of each project. Therefore, IG Masonry Support have made every effort to help installers by creating an installation guide for B.O.S.S. A1, available on our website.

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.



B.O.S.S. A1 Sales and Enquiries

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