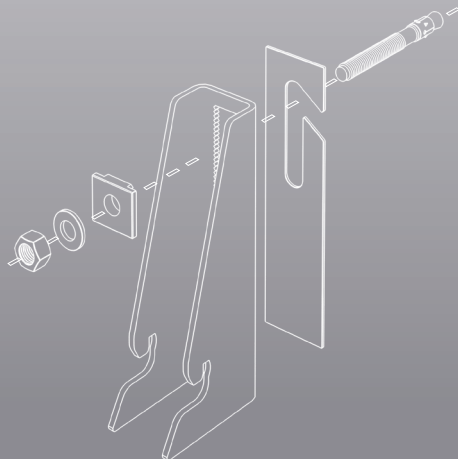


IG | Masonry Support



IG BETTER BY DESIGN

IG have combined experience with innovation to provide the most practical and advanced range of masonry support and brick slip products on the market.

Founded in 1958, IG is a division of Europe's largest manufacturer of steel lintels.

IG design, manufacture and supply high quality steel systems throughout Europe.



BBA Certification
for Brick Slip Lintels



British Standards
Institution ISO 9001



Investors in People
Accreditation



EN 1090-1:2009+A1 2011

All IG Masonry Support
products comply with this
regulation and feature the
CE Mark.



British Standards
Institution ISO 14001



Home Builders
Federation



Builders Merchants
Federation



National House
Building Council

Masonry Support Systems

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Service

IG brings you service from three locations across the UK and Ireland, with a Sales and Technical Team dedicated to your area

TECHNICAL SUPPORT

IG provides comprehensive, technical support for all our masonry support products. Our free scheduling and specification service offers fast turnaround on masonry support and windpost systems. Our experienced team of over 40 structural and civil engineers offer a free design service and onsite support offering a range of off the shelf and bespoke solutions.

By contacting our engineers at an early stage of your design process, you will potentially gain significantly more design flexibility for the overall project. Ask for an IG Engineer to visit your site or office. We relish the opportunity to liaise with industry professionals on building projects, regardless of size.



DELIVERY

IG's fast, efficient delivery service is renowned throughout the construction industry. Our logistics solution is recognised by our customers for superior supply chain management. Products are delivered direct to site, specific to your site requirements.



SERVICE

From your first contact with IG you will know you are dealing with people who care about you and your business. IG staff are responsive, proficient, knowledgeable and receptive to any urgent requirements you may have. IG utilise the ultimate in Enterprise

Resource Planning software to track every step in your IG experience; from technical enquiries, schedules and orders, through to manufacturing and delivery. This system ensures that our sales office can fully track the status of your order.



Product Specification

IG TITAN Masonry Support

Manufacturer
IG Masonry Support Systems Ltd.

Product Reference
TITAN 8,10,12,14
(unfactored loadings).

Material
Austenitic Stainless Steel Grade 304.

Size
To suit cavity widths ranging from 70-150mm (fine adjustment available).

Fixings
Refer to Technical Dept for details. Systems are suitable for fixing back to concrete and steel. Nylon shim supplied as standard, position between the back of the bracket and the sub-structure.

IG WMS Masonry Support

Manufacturer
IG Masonry Support Systems Ltd.

Product Reference
WMS Systems
reduced cavity widths and site specific requirements.

Material
Austenitic Stainless Steel Grade 304.

Size
Tailored to the needs of the project.

Fixings
Refer to Technical Dept for details. Systems are suitable for fixing back to concrete and steel. Nylon shim supplied as standard, position between the back of the bracket and the sub-structure.

IG Brick Slip Masonry Support

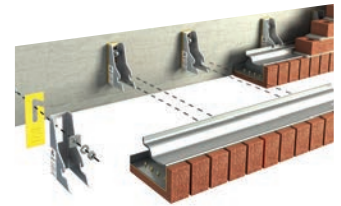
Manufacturer
IG Masonry Support Systems Ltd.

Product Reference
BSMS
(Brick Slip Masonry Support). Various bond patterns available.

Material
Austenitic Stainless Steel Grade 304.
BBA approved adhesive and Brick Slips (consignment of brick collected from site). Steel is perforated to form a mechanical lock with the adhesive.

Size
Tailored to the needs of the project.

Fixings
Refer to Technical Dept for details. Systems are suitable for fixing back to concrete and steel. Nylon shim supplied as standard, position between the back of the bracket and the sub-structure.



IG Brick Slip Lintels

Standard
BS EN 845-2:2013

Manufacturer
IG Masonry Support Systems Ltd.

Product Reference
BSL
(Standard Loadings),
HDBSL
(Heavy Duty Loadings),
XHDBSL
(Extra heavy Duty Loadings).

Material
Austenitic Stainless Steel Grade 304. BBA Approved Adhesive and Brick Slips (consignment of brick collected from site). Steel is perforated to form a mechanical lock with the adhesive.

Size
Tailored to the needs of the project.

Fixings
Not Required.

IG Brick Slip Soffit Panels

Manufacturer
IG Masonry Support Systems Ltd.

Product Reference
BSSP
(Brick Slip Soffit Panels). Various bond patterns available.

Material
9mm Magnesium Board, BBA Approved Adhesive and Brick Slips (consignment of brick collected from site).

Size
Tailored to the needs of the project.

Fixings
Refer to Technical Dept for details. Screw fixed to sub-structure, designed by others.

IG Brick On Soffit System Range

Manufacturer
IG Masonry Support Systems Ltd.

Product Reference
Brick On Soffit System
Various bond patterns available.

Material
Austenitic Stainless Steel Grade 304.
BBA approved adhesive and Brick Slips (consignment of brick collected from site). Steel is perforated to form mechanical lock with the adhesive.

Size
Tailored to the needs of the project.

Fixings
Refer to Technical Dept for details. Systems are bolted to pre-installed masonry support shelf. Nylon shims supplied as standard, positioned horizontally between the masonry support shelf and the Brick On Soffit System Unit.



IG Windposts

Product Reference:
U1...U9/ LP1...LP12/ DU3...DU9

Material:
Austenitic Stainless Steel Grade 304.

Installation:
Windposts to be bolted to ground and intermediate floor structures. Windpost spacing determined by IG Engineer. LP Windpost to be built into blockwork. DU and U windposts to be placed in cavity.



Solving the common **issues**

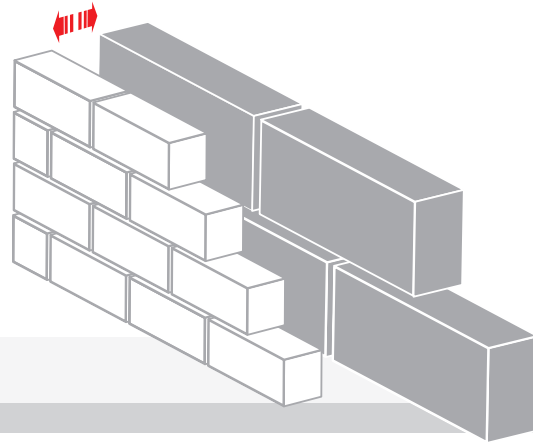
At IG, innovation drives the development of superior masonry support systems, designed specifically to answer the changing needs of the industry.

ISSUE

1

Cavity variations

Site conditions often vary from plan and can result in variations of cavity width.

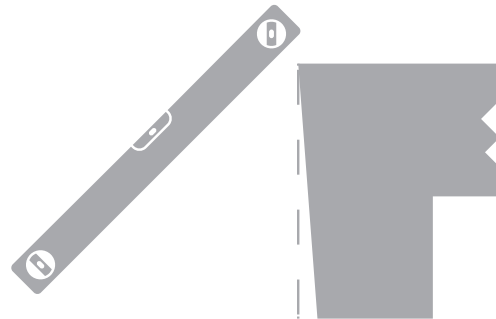


ISSUE

2

Support structure "not plumb"

Fixing on to structures which may not be totally plumb is a common issue onsite.

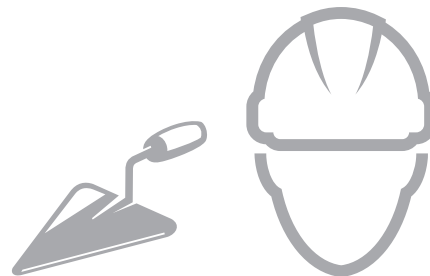


ISSUE

3

Maintaining build quality onsite

The lack of sufficient skilled labour can be a challenge when quality detailing is required.



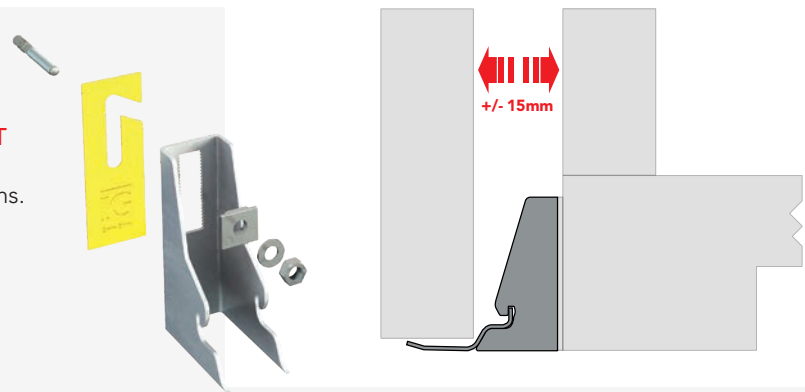
...with unique **innovations**

Innovation 1

MAXIMUM CAVITY WIDTH ADJUSTMENT

Titan's innovative bracket profile can accommodate typical onsite cavity variations. For example, the MSB 100 bracket can be adjusted to cope with cavity widths from 85mm to 115mm.

For details of how to apply this rule please see page 14.



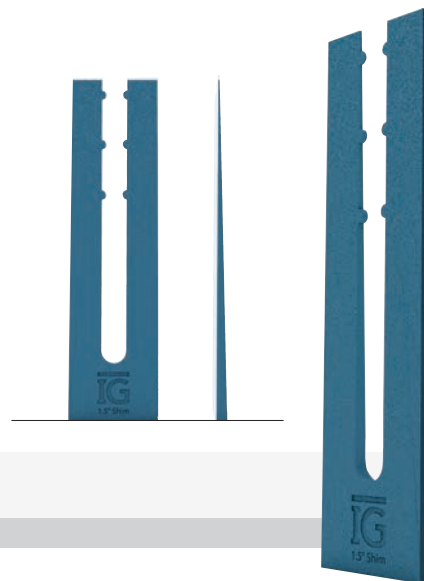
Innovation 2

EASY ONSITE "OFF PLUMB" ADJUSTMENT

Our patented Wedged Shim enables the brackets to be secured true to the perpendicular even when the supporting structure is "off plumb".

Locating IG's wedged shim behind the full length of the masonry support bracket, ensures the masonry load is evenly distributed to the support structure.

Each shim offers 1.5° alignment.

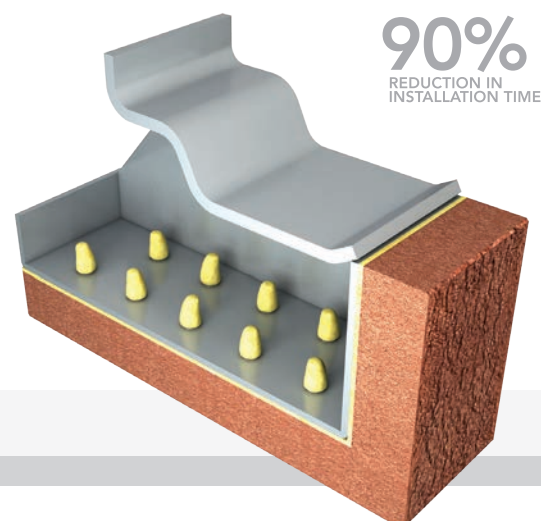


Innovation 3

EASY ONSITE INSTALLATION WITH OFFSITE QUALITY

Manufactured in an ISO 9001 quality certified facility, IG's brick slip products guarantee consistent, repeatable quality.

Our unique Brick Slip Masonry Support Systems are produced offsite, dramatically reducing the time taken onsite to create brick soffits and other brick detailing by up to 90%.



Why use IG Masonry Support?

Masonry Support Systems provide a solution for the movement of brickwork due to factors such as moisture, thermal fluctuation, loading, ground movement and structure settlement.

HORIZONTAL MOVEMENT JOINTS

To cope with vertical movement in a masonry facade, a compressible horizontal joint must be introduced at the required levels.

The underside of the shelf angle should be set 2.5mm above the level of the compressible filler. This allows for any settlement that may occur as a result of the vertical dead load imposed by the masonry and to accommodate expansion of the brickwork below.

The minimum expansion gap should be at least 12mm where there is a single story height of brickwork below the support system. The gap should be increased by 1mm for every additional metre in panel height.

Wall ties should support the panel no more than 300mm above and below the shelf angle.

STRESS FRACTURING

Masonry Support Systems provide a solution to issues such as stress fracturing and cracking of brickwork. Fracturing can occur as a result of excessive loading and expansion. Masonry Support Systems alleviate this problem.

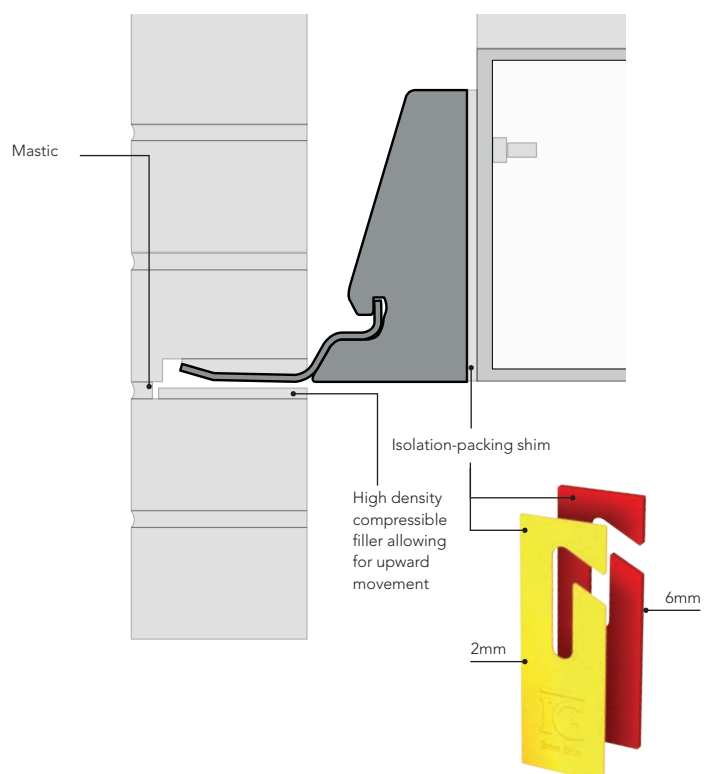
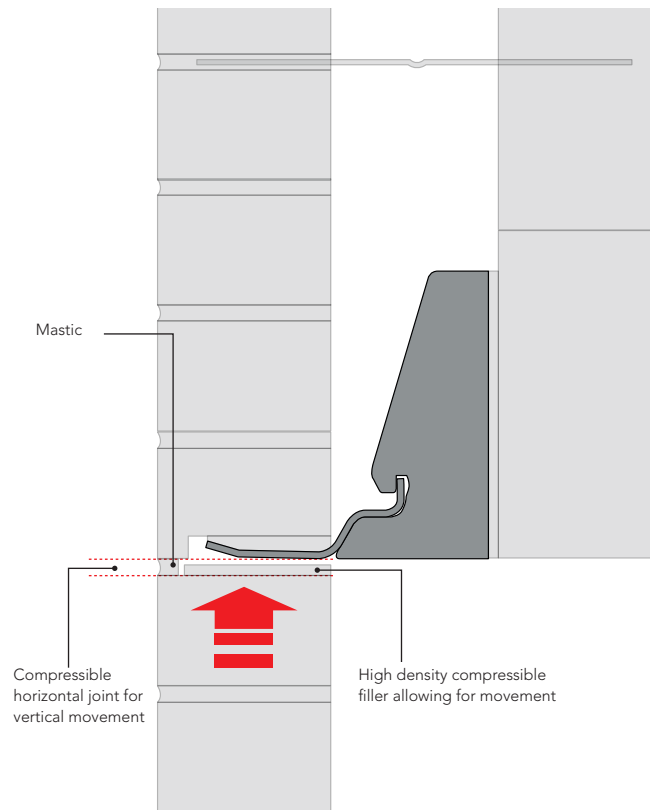
FIXING TO STEEL - CORROSION RESISTANCE

The structural steel member must be designed to minimise deflections and accommodate the torsional forces created by eccentric loading from the brickwork.

IG Masonry Support Systems are manufactured from 304 austenitic stainless steel. Isolation packing shims are installed between the IG Masonry Support bracket and the structural steel frame to prevent bi-metallic corrosion.

Bi-metallic reaction is the corrosive effect that occurs when two dissimilar metals such as stainless steel and mild steel are in direct contact with each other in a damp environment.

IG Masonry Support Systems supply isolation-packing shims as standard.



DIFFERENTIAL MOVEMENT

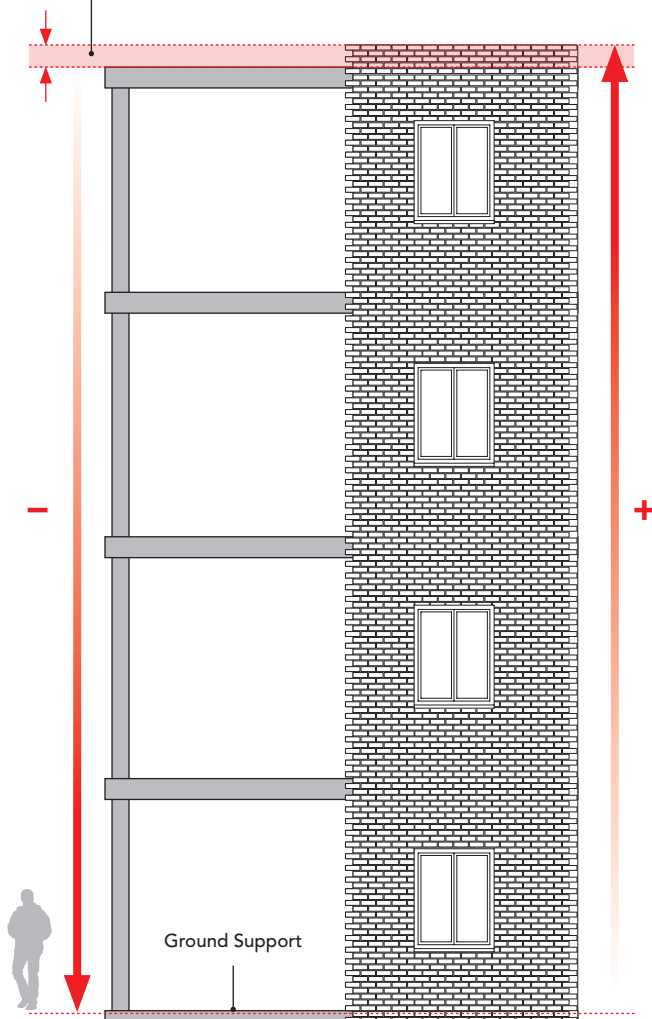
Differential movement is typically caused by settlement in the building frame in the opposite direction to potential expansion of the brick outer leaf, which may be caused by thermal fluctuations and moisture absorption.

LIMITATION ON UNINTERRUPTED HEIGHT

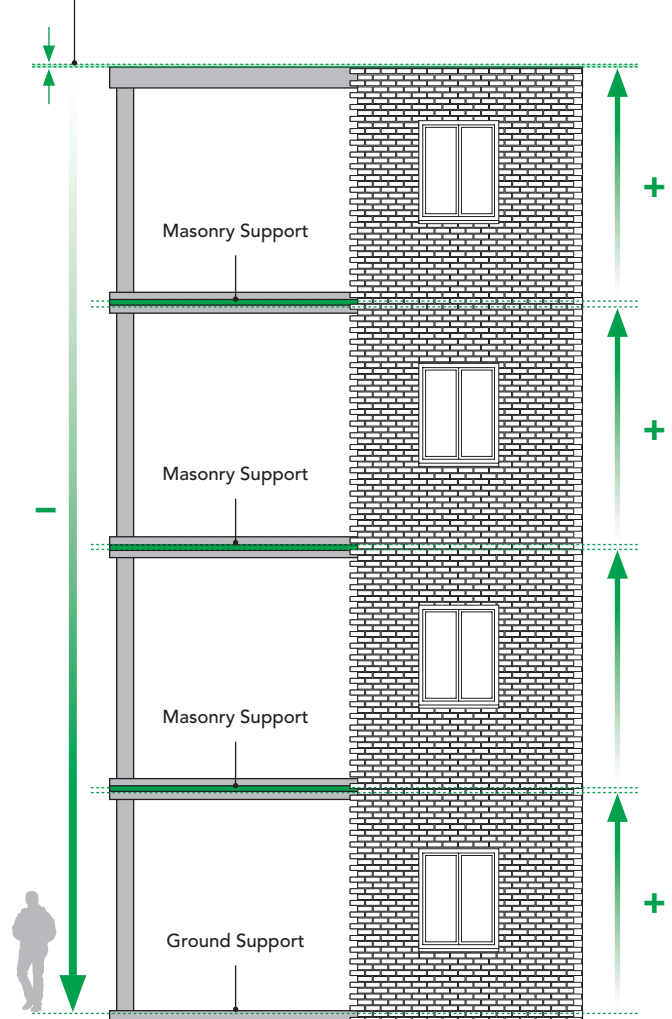
When the method of limiting the uninterrupted height is adopted in accordance with BS 5628 : Part 1, the outer leaf should be supported at intervals of no more than every third storey or every 9m; whichever is less. This method employs shelf angles and horizontal joints, which subsequently provides a means of vertical movement control. For buildings not exceeding four storeys or 12m in height, whichever is less, the outer leaf may be uninterrupted for its full height. However masonry support is often incorporated in many buildings of less than four storeys or 12m.



Outer leaf supported at ground level only:
Large Differential Movement



Outer leaf supported with Masonry Support:
Minimal Differential Movement



Masonry Support Range

MASONRY SUPPORT SHELF SYSTEMS

TITAN SYSTEM Component shelf system

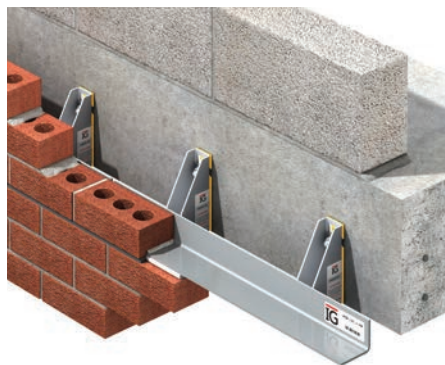


IG's Titan System is designed to meet with the industry's demand for speed of construction. All configurations are available ex-stock, meeting the builder's needs.

This system offers a range of bracket sizes to accommodate various cavity widths. IG Titan is a fully adjustable system accommodating loads up to 14 kN/m.

For more information, turn to **Page 12**

WMS SYSTEM Welded shelf system



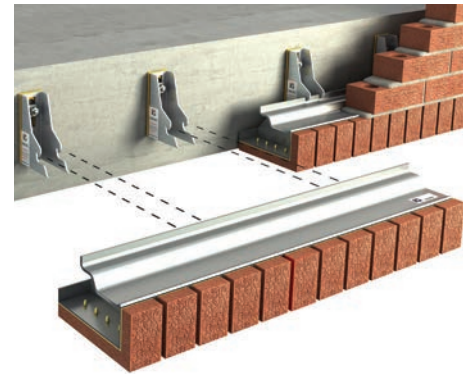
A rigid Masonry Support System manufactured bespoke to accommodate projects with very specific requirements; eg. reduced cavity widths or increased loading.

IG's Welded Shelf Systems are fabricated to engineer specifications and design assistance can be provided by the IG Technical Team.

For more information, turn to **Page 16**

BRICK SLIP SYSTEMS WITH MASONRY SUPPORT

BRICK SLIP MASONRY SUPPORT Large span openings



IG's Brick Slip Masonry Support Systems are one-piece prefabricated units manufactured offsite and delivered to site complete with bricks bonded to them. This system offers a major reduction in onsite labour and installation time. All solutions are customised to your requirements.

IG's bespoke components use our patented adhesion system and are delivered to site as a complete unit ready for installation.

For more information, turn to **Page 18**

MATERIAL
Stainless Steel shelf system and brackets Grade 304 (European grade 1.4307 & 1.4301)

- Available ex-stock
- Easy to specify
- Front loading for ease of installation
- Onsite adjustability
- Speed of installation

LOADING SPEC
Supports unfactored masonry loads up to 14kN per metre.

MATERIAL
Stainless Steel Shelf System and brackets Grade 304 (European grade 1.4307 & 1.4301)

- Extra strength to support extreme loads
- Can be supplied in a variety of configurations
- Onsite adjustability
- Ease of installation

LOADING SPEC
Supports unfactored masonry loads up to and exceeding 14kN per metre.

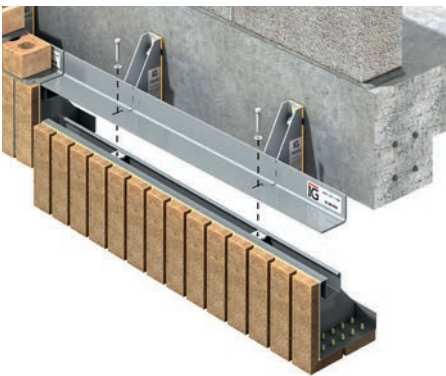
MATERIAL
Stainless Steel, Grade 304 (European grade 1.4307 & 1.4301) BBA approved adhesive & 25mm brick slip

- Time saving onsite
- Light weight for fast build programmes
- Customised to your requirements
- Reduced labour – no brick fixings required onsite

LOADING SPEC
Supports unfactored masonry loads up to and exceeding 14kN per metre.

BRICK SLIP SYSTEMS WITH MASONRY SUPPORT

BRICK ON SOFFIT SYSTEM Brick Slip Bolt Up System



IG's Brick On Soffit System range provides a lighter alternative to concrete, which is faster to install than traditional hanging brick systems.

Installed to a pre-fitted masonry support system, the Brick On Soffit System allows increased adjustability along three axis. Produced offsite, the Brick On Soffit System offers a quicker, lighter, easier and more cost efficient option.

For more information, turn to **Page 20**

MATERIAL

Stainless Steel, Grade 304 (European grade 1.4307 & 1.4301)
BBA approved & 25mm brick slip

- Simplicity of installation
- No brick cutting required onsite
- Support steelwork is completely hidden
- Adjustability in all planes

LOADING SPEC

Masonry shelf above supports imposed loads.

BRICK SLIP LINTELS Window and door openings



IG's BBA approved Brick Slip Lintels can be used over small openings, thus eliminating the need for additional masonry supports.

Supplied in stainless steel, IG's Brick Slip Lintels have the same profile as a standard lintel and are delivered to site as a one-piece unit complete with brick slips attached, eliminating the need for specialist installation onsite.

For more information, turn to **Page 24**

MATERIAL

Stainless Steel, Grade 304 (European grade 1.4307 & 1.4301)
BBA approved adhesive & 25mm brick slip

- Speed of installation – installed as a standard lintel
- Cost saving
- Available in stainless steel

LOADING SPEC

Supports loads over small scale openings – contact our technical team for design requirements.

BRICK SLIP PANELS

BRICK SLIP SOFFIT PANELS Deep soffit areas



IG's Brick Slip Soffit Panels provide a lightweight pre-fabricated brick slip cladding system; which achieves deep soffits that blend seamlessly with already constructed brickwork onsite.

Produced offsite, this innovative system enables masonry soffits to be assembled with speed and efficiency without the need for specialist installation.

For more information, turn to **Page 28**

MATERIAL

9mm magnesium board, BBA approved adhesive & 25mm brick slip

- Achieve deep brick soffit detail
- Fast and easy installation
- Lightweight
- No shuttering required
- Reduced labour – no brick fixing required onsite
- Blends seamlessly with already constructed brickwork
- Various bond patterns can be achieved

IG TITAN™ SYSTEM

A high-performance, loose-fit shelf Masonry Support System designed to give maximum flexibility onsite.



Designed to meet with the industry's demand for speed of construction, Titan is an ex-stock system with a range of components suitable for cavity widths between 70 and 150mm. The system can be specified for loadings up to 14 kN/m.

KEY BENEFITS

- Available ex-stock
- Front fit loading for ease of installation
- Increased adjustability
- Reduces risk of working with heavy masonry at height
- Fast installation
- Reduced onsite labour requirement

The Titan System consists of a front loaded shelf angle, brackets, lock washers, shims and bolts. With increased adjustability and added strength, the Titan System gives engineers peace of mind and provides flexibility onsite.

Titan facilitates easy front installation of the masonry support shelf, while the bracket system is designed to accommodate typical build tolerances onsite, ensuring accurate installations.

Loads up to
14 kN/m

SUITABLE FOR
CAVITY WIDTHS

70mm to 150mm

For cavity widths exceeding 150mm please contact our technical team

SUPPORT HOTLINE
01283 200 157

LOADING

IG's Titan System is supplied in configurations to accommodate loads of 8, 10, 12 and 14 kN/m and the system is specified simply to reflect these loading values (eg. **TITAN10** = up to 10kN/m).

IG's Titan System is suitable for use with any outer leaf material: brickwork, fairface blockwork, rendered blockwork and reconstituted stone.

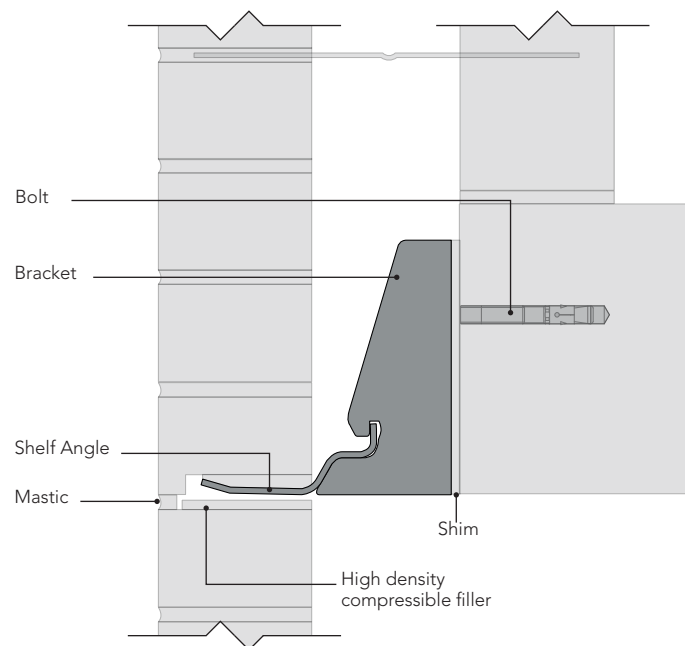
CAVITY WIDTH

Standard brackets are available for cavity widths ranging from 70 to 150mm.

When designing for cavity widths greater than 150mm in width, please contact the IG Technical Department for design assistance on fixing details.

POSITIONING THE SHELF

The underside of the shelf angle should be set 2.5mm above the level of the compressible filler. This is to allow for any settlement that may occur as a result of the vertical dead load imposed by the masonry and to accommodate expansion of the brickwork below.



TITAN SYSTEM SPECIFICATION

System Type	Designed Load (kN/m)	Angle Length (mm) *	Bracket Centres (mm)
TITAN 8	8	1190	600
TITAN 10	10	990	500
TITAN 12	12	990	500
TITAN 14	14	790	400

For cavity widths greater than 150mm please contact the IG technical department.

BOLT SPECIFICATION

Bolt type	Fixing to	Drill Hole Diameter (mm)	Torque (Nm)	Supplier Name
FBN II 12/20 A4	Concrete	12	35	Fischer
FAZ II 12/20 A4	Concrete	12	60	Fischer
RG M 12x120 A4	Concrete	14	40	Fischer
HD BOLT M12x60	Steel	12	30	Blindbolt
SET SCREW M12x60	Steel	14	73.5	Fit-Lock

For guidance on bolt specification please contact the IG technical department.

IG TITAN™ SYSTEM

ADJUSTABILITY

IG's Titan System provides significant adjustability in all three planes to ensure that building tolerances can be accommodated and contact with reinforcing bar can be avoided when drilling holes.

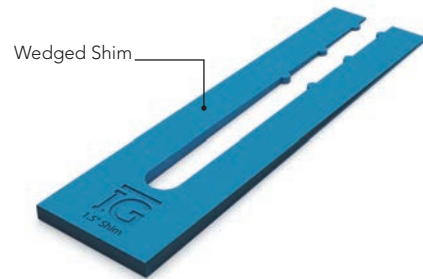
Shimming

To accommodate a small increase in cavity width, shims can be inserted between the support structure and the bracket. Shims are available in 2mm and 6mm. IG's 2mm shims are provided as standard. The collective number of shims should never exceed three and the thickness of shims used should never exceed 12mm.



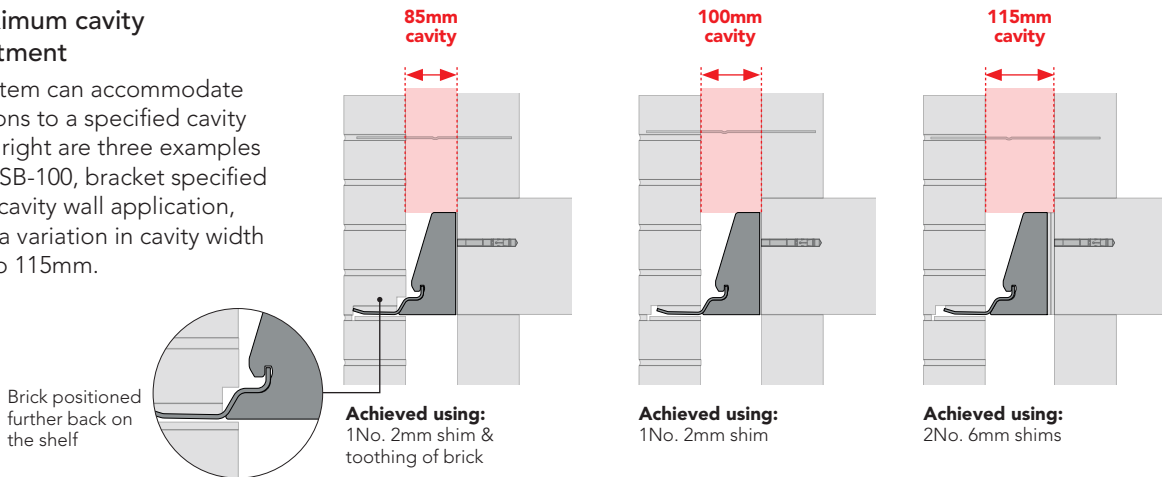
Off plumb adjustment

Our patented Wedged Shim enables the brackets to be secured true to the perpendicular, even when the supporting structure is "off plumb".



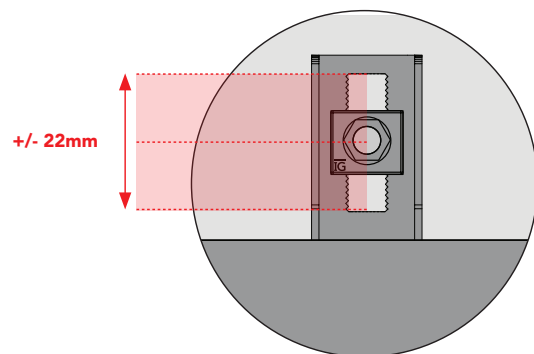
Unique maximum cavity width adjustment

The Titan System can accommodate onsite variations to a specified cavity width. To the right are three examples of how the MSB-100, bracket specified for a 100mm cavity wall application, can facilitate a variation in cavity width from 85mm to 115mm.



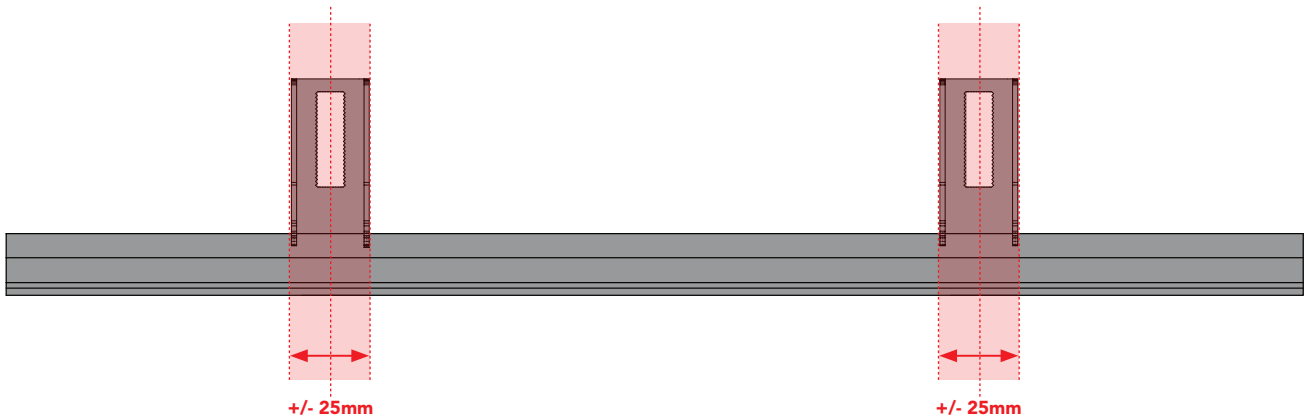
Vertical adjustment

Vertical adjustment is offered by means of a toothed lock washer. This lock washer is inserted into the serrated slot in the support bracket. The lock washer can be adjusted vertically to move the bracket higher or lower if required. The serrated area at the back of the bracket allows up to 22mm of adjustment in either direction on the vertical plane. The lock washer also offers fine adjustment by rotating it through 180 degrees; this is achieved by the offset hole in the lock washer.



Lateral adjustment

The Titan System support brackets may be moved up to 25mm left or right of the specified fixing centres.



External corners

When installing the IG Titan System at an external corner you need two mitred shelf angles. Each shelf angle consists of three support brackets and they are positioned as follows.

Bracket 1

Is positioned 150mm in from the corner of the support structure.

Bracket 2

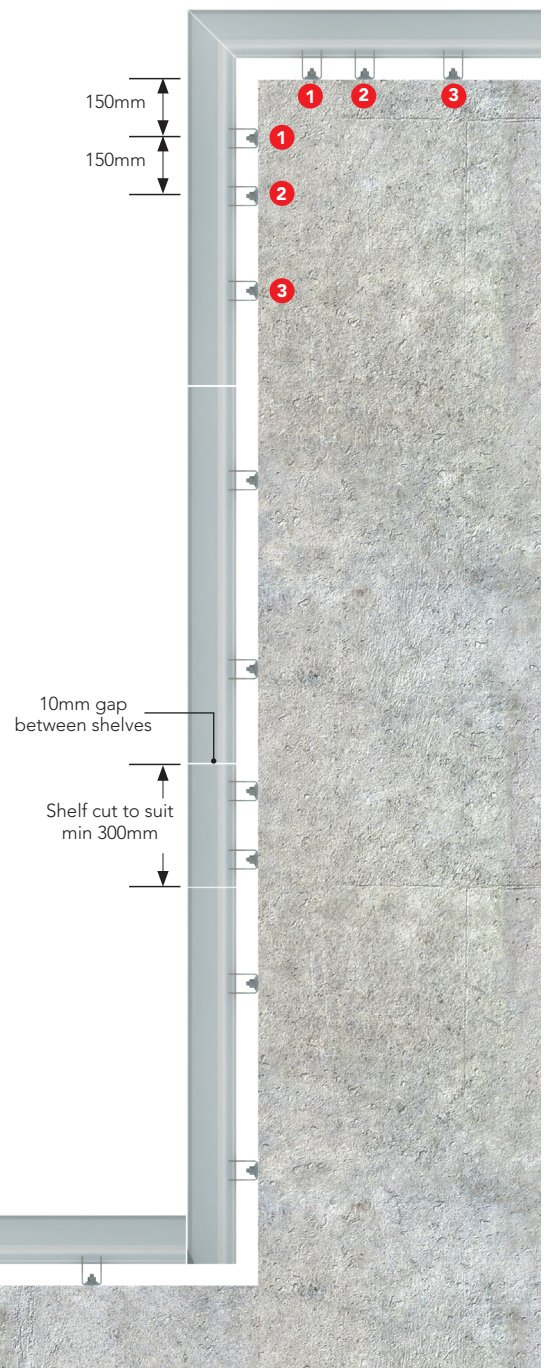
Is positioned a further 150mm in from the centre of the first bracket.

Bracket 3

Is positioned towards the other end of the shelf. Drawings can be provided upon request.

Site cutting

IG Titan System's standard shelf angle can be cut onsite. Any cut or reduced length must still be supported by a minimum of two brackets. The minimum length that the shelf can be trimmed down to is 300mm with the minimum bracket spacing of 150mm. If the required shelf space is less than 300mm, reduce the adjoining shelf to accommodate the minimum bracket spacing allowance, i.e. 150mm.



IG WMS SYSTEM

A high-performance shelf system with fixed brackets suitable for extreme loads.



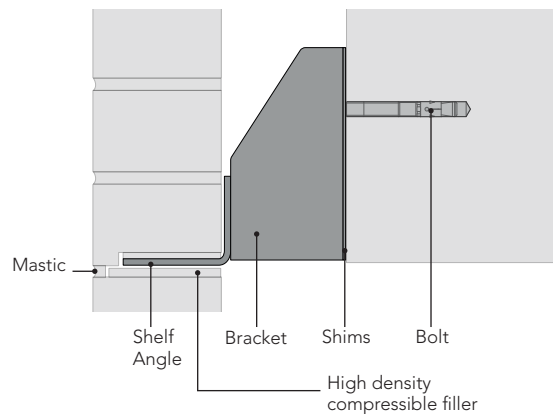
Designed to accommodate loads up to and exceeding 14kN/m and bespoke fixing applications, IG WMS is fabricated to engineers specifications on a project specific basis.

IG's Welded Masonry Support (WMS) is a rigid masonry support system comprised of a stainless steel angle support shelf with fixed brackets.

IG's team of engineers offer a bespoke design service including onsite technical assistance.

KEY BENEFITS

- Extra strength to support extreme loads exceeding 14kN/m
- Can be supplied in a variety of configurations
- Onsite adjustability
- Ease of installation



Loads up to & above
14 kN/m

SUITABLE FOR
CAVITY WIDTHS

50mm to 150mm

For cavity widths exceeding 150mm please contact our technical team

SUPPORT HOTLINE
01283 200 157

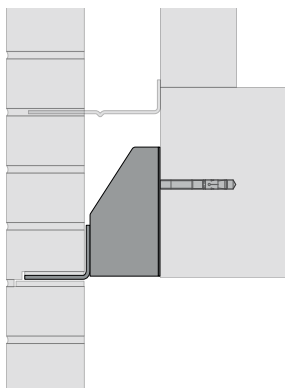
ADJUSTABILITY

IG's WMS System provides significant adjustability on two planes to ensure that building tolerances can be accommodated and contact with structural reinforcing can be avoided. Vertical adjustment can be achieved by means of a toothed lock washer. Adjustment in cavity width can be accommodated using shims between the support structure and the bracket. Shims are available in 2mm and 6mm. IG's 2mm shims are provided as standard. Refer to page 14 for more information.

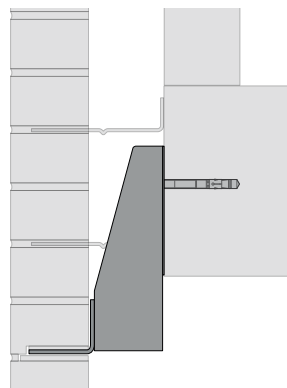


Design variations

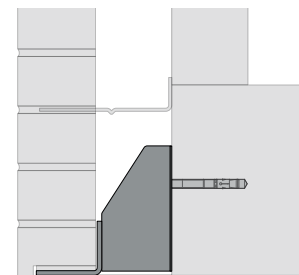
IG's range of masonry support products can be supplied with brackets to accommodate a range of applications. Below are examples of some of the design variations available.



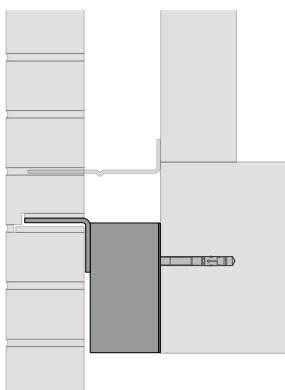
WMS



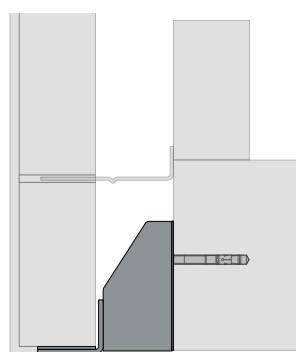
WMS Dropper



WMS Cavity closer



WMS Inverted



WMS Plaster key

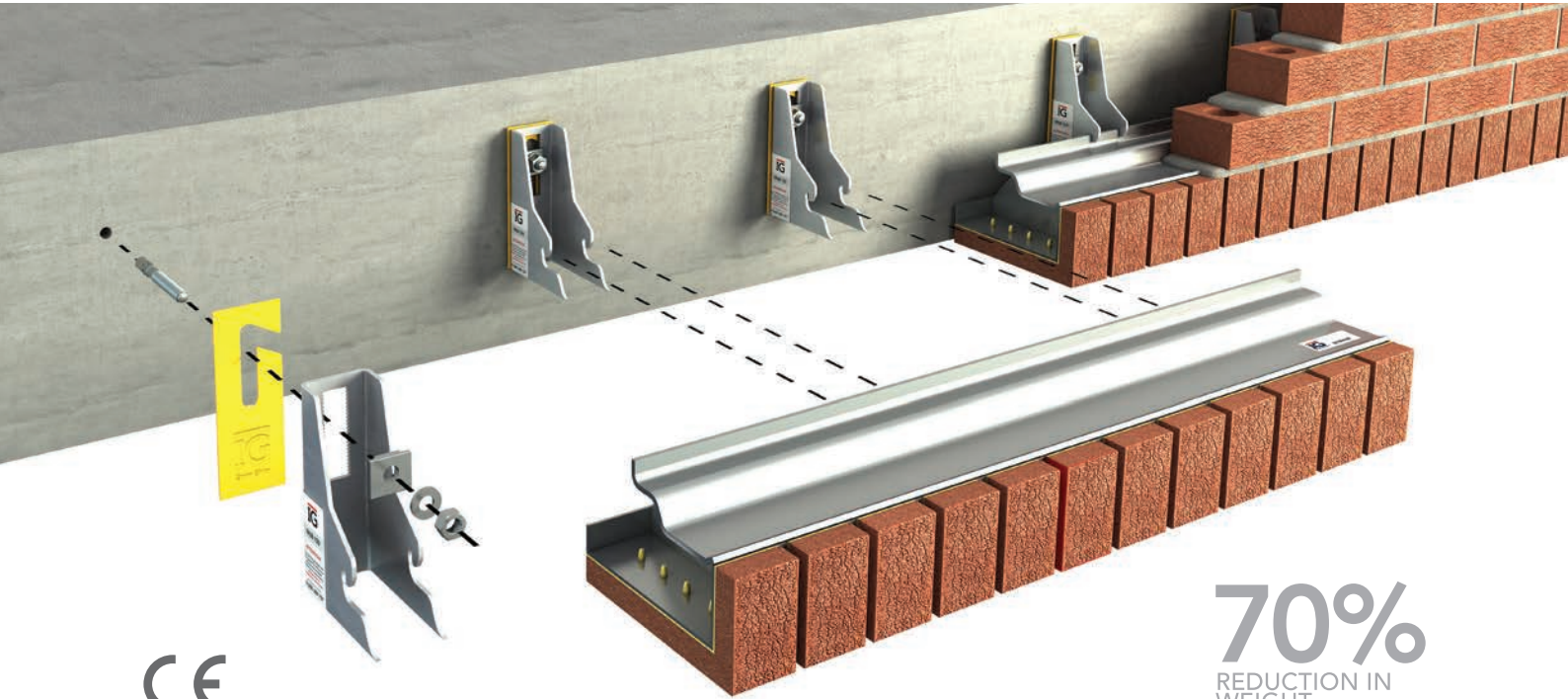
Other variations

IG can offer a number of other variations.

Please contact our technical team for more information.

IG BRICK SLIP MASONRY SUPPORT

IG's Award winning Brick Slip System offers fast, lightweight solutions for soffits of all shapes & sizes



BS EN 1090-1

70%
REDUCTION IN
WEIGHT

IG's Brick Slip Masonry Support Systems are one piece prefabricated units manufactured offsite and delivered complete with bricks bonded to them. This system offers a major reduction in onsite labour and installation time. All solutions are customised to your requirements.

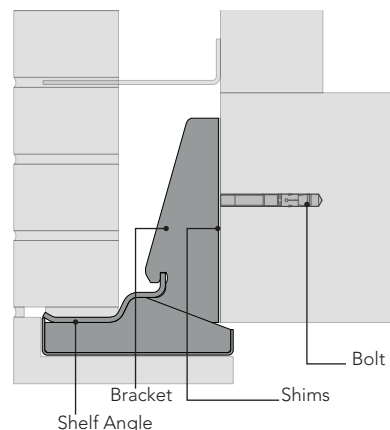
AWARD WINNING SYSTEM

IG's lightweight brick slip units offer fast, hassle-free installation and are simply installed as a traditional masonry support system. Our bespoke systems offer a 70% weight saving against an equivalent concrete product; negating the need for mechanical handling.

IG receive a consignment of the brick being used onsite to ensure that the finished brick slip masonry support blends seamlessly with already constructed brickwork.

KEY BENEFITS

- Time saving onsite
- Lightweight for fast build programmes
- Simply installed as our standard Masonry Support System
- Customised to your requirements
- Support steelwork is hidden
- No brick cutting required onsite
- Various brick patterns and soffit sizes available



Loads up to and above
14 kN/m

Please contact IG for full technical support

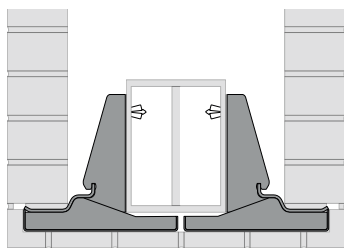
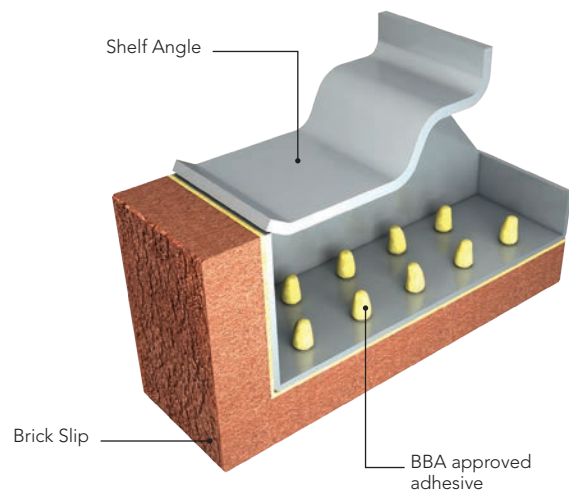
SUPPORT HOTLINE
01283 200 157

90%
REDUCTION IN
INSTALLATION TIME

- ✓ **Drill**
- ✓ **Fix**
- ✓ **Fit**

TIME SAVING ONSITE

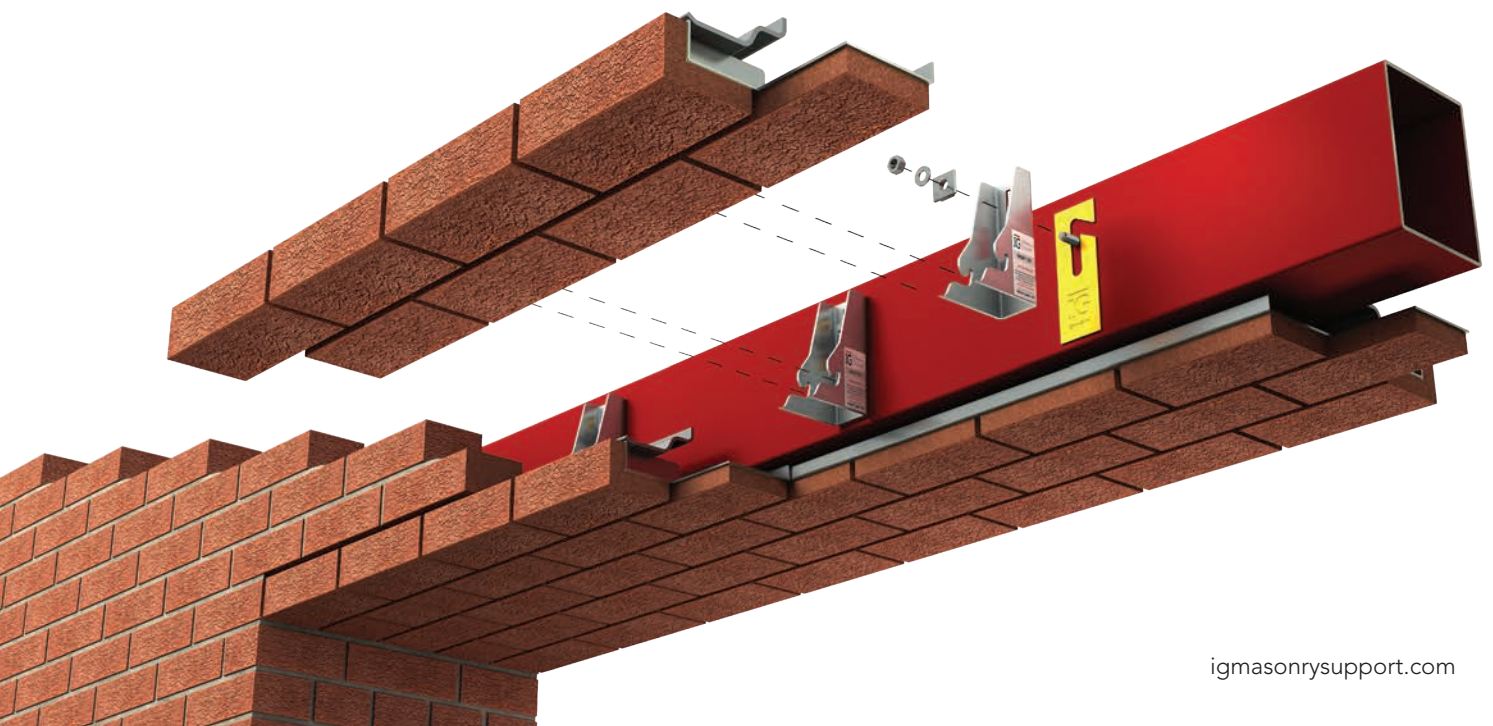
IGs Brick Slip Masonry Support Systems offer 90% time saving onsite. While other systems for suspending brick from the underside of masonry support require bricks to be predrilled and hung from rods or heavy precast suspended units to be bolted in place, IG's Brick Slip Systems are installed in exactly the same way as a normal masonry support system; negating the need for any additional skilled labour.



BRICK SLIP SYSTEM

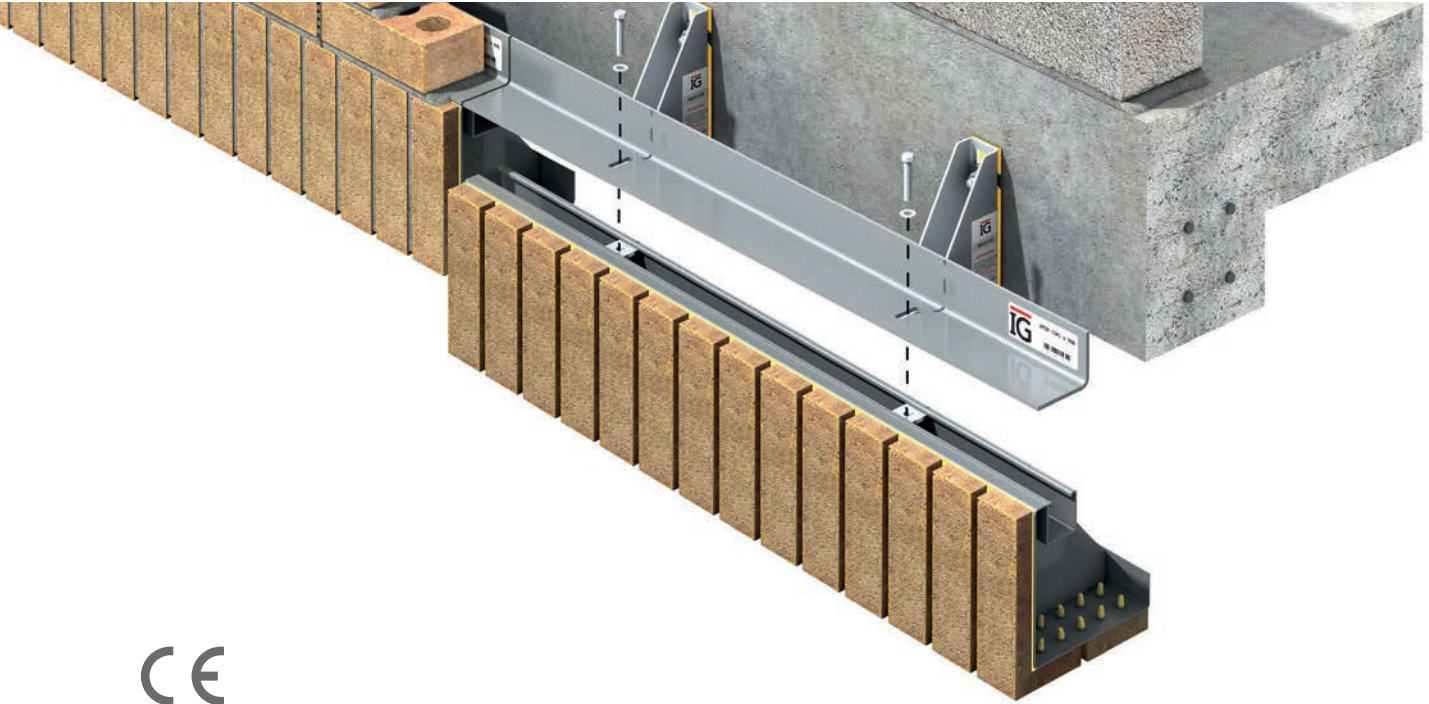
IG's Brick Slip System products offers a unique design. The perforated steel allows IG's approved BBA adhesive to protrude through the perforations and create a mechanical lock.

All IG Masonry Support Brick Slip products are supplied without any pointed joints. This allows the construction on site to match units up seamlessly on site with surrounding bricks, utilising site mortar/pointing.



IG BRICK ON SOFFIT SYSTEM RANGE

IG's ground-breaking Masonry Support & Brick Slip Bolt-Up Technology combine to produce the Brick On Soffit System



BS EN 1090-1

IG's Brick On Soffit System Range, is an extension of our Brick Slip Masonry Support Range. The Brick On Soffit System Range allows for more adjustability onsite in comparison to IG's standard Brick Slip Masonry Support product. All solutions are customised to your requirements.

REVOLUTIONARY SYSTEM

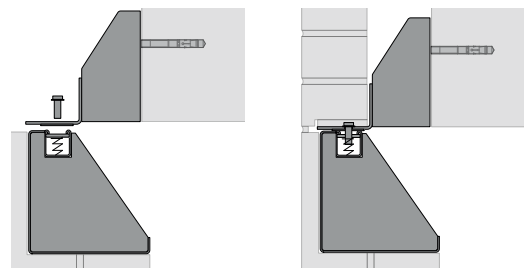
Achieving deep brick soffits and intricate brick patterns around window heads and openings has become quicker, easier and much more cost effective to achieve – all down to the lightweight Brick On Soffit System range developed by IG Masonry Support.

Image 1 below shows a section through the Brick On Soffit System system and angle showing the fixing detail. A spring nut is inserted into the channel. A bolt is then passed through a slot in the support angle and screws into the spring nut.

Once the bolt is torqued to the advised torque setting, the bolt head and washer are the only visible fixings on the angle. No grinding of excess fixings or bolts is required. Simply lay a pistol brick on a bed of mortar onto the angle to cover the fixings (See image 2).

KEY BENEFITS

- Adjustability in all planes.
- Simplicity of installation
- No brick cutting required onsite
- Support steelwork is completely hidden
- Various brick patterns and soffit sizes available
- Blends with already constructed brickwork



(Image 1)

(Image 2)

Suitable for Wide openings

Please contact IG for full technical support

**SUPPORT HOTLINE
01283 200 157**

90%
REDUCTION IN
INSTALLATION TIME

70%
LIGHTER THAN
CONCRETE ALTERNATIVES

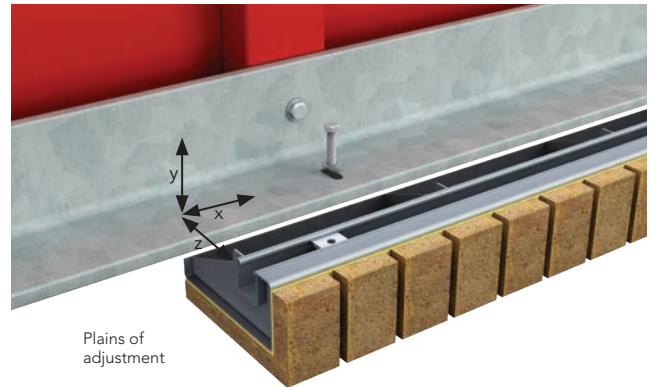
- ✓ **Drill**
- ✓ **Fix**
- ✓ **Fit**

TIME SAVING ONSITE

IG's Brick On Soffit System offers 90% time saving onsite and negates the need for mechanical lifting. Alternative systems for suspending brick from the underside of masonry support require bricks to be predrilled and hung from rods. This can be a timely and labour intensive installation. Other methods that use heavy precast concrete units, suspended from above, require mechanical lifting.

IG's Brick On Soffit System systems are installed to pre-installed Masonry Support System. It is a two part system, increasing the adjustment across all three planes.

IG receive a consignment of the brick being used onsite to ensure that the finished Brick Slip Bolt Up System blends seamlessly with already constructed brickwork.



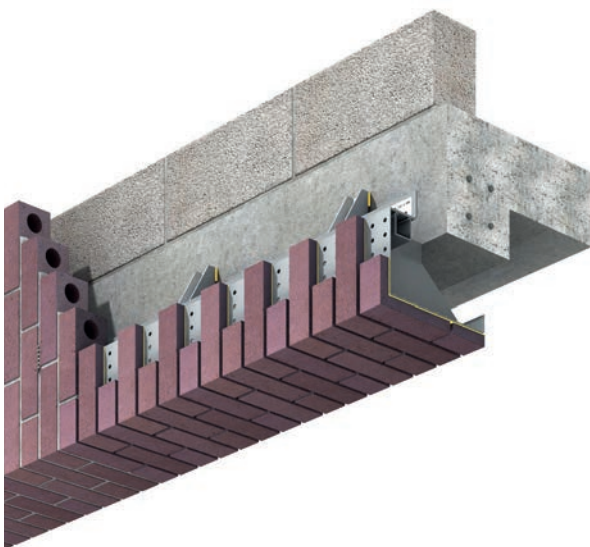
IG Brick On Soffit System bolt up - Fixing to existing steel angle

ADJUSTABILITY

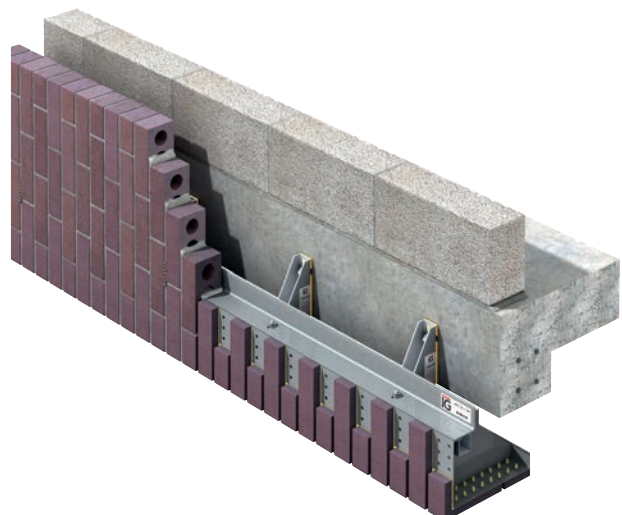
The system offers three planes of adjustment – (See X, Y and Z planes in the above image).

The masonry support shelf is supplied with a slotted hole, giving adjustability along the Z axis. Further adjustment on the Z axis is attained by shimming behind the masonry support bracket. The integrated channel (which is manufactured within the system) allows for increased adjustment on the X axis.

Adjustability on the Y axis is created within the masonry support bracket, and the ability to insert shims between the shelf and the bolt up system. All levels of adjustment can be viewed in our installation video at igmasonrystem.com.



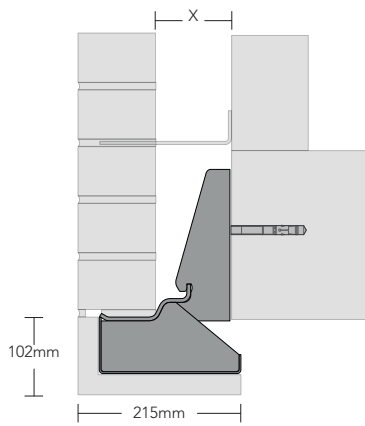
IG bolt up - Fixing to concrete frame



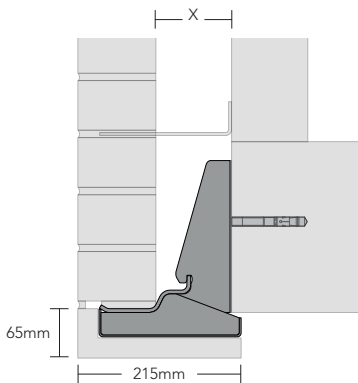
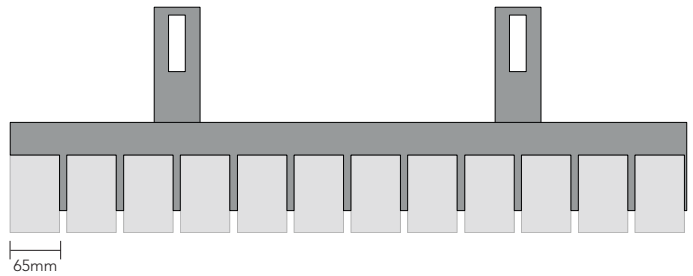
DESIGN VARIATIONS

Brick Slip Masonry Support Range

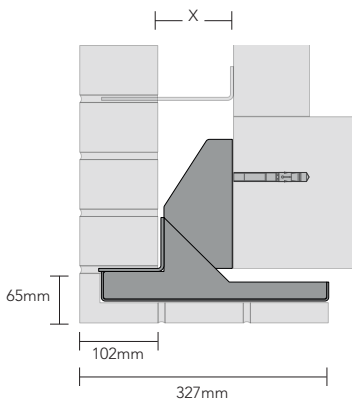
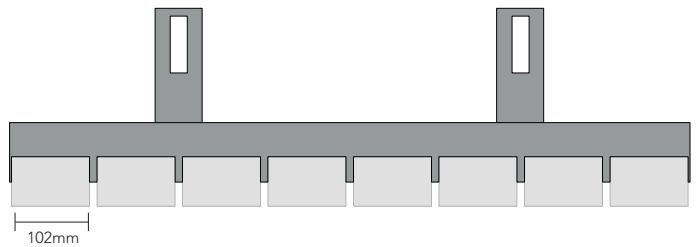
IG's brick slip masonry support products can accommodate a large range of bond patterns. Some examples of these bond patterns are displayed below. Non-standard brick dimensions can also be accommodated.



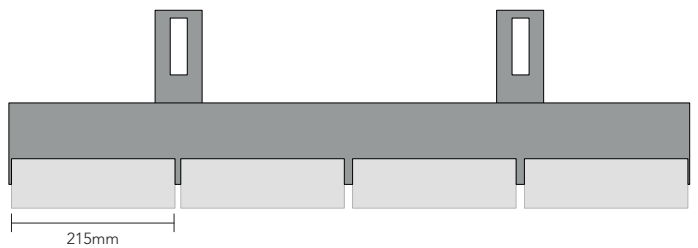
Rowlock 102-215

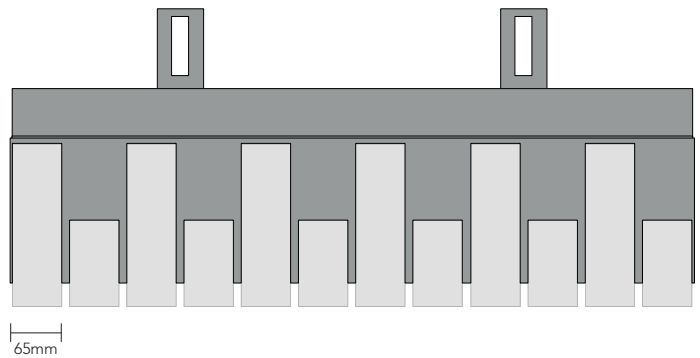
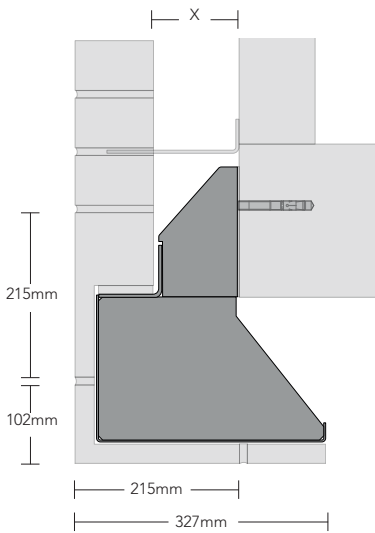


Header 65-215



Stretcher 65-327

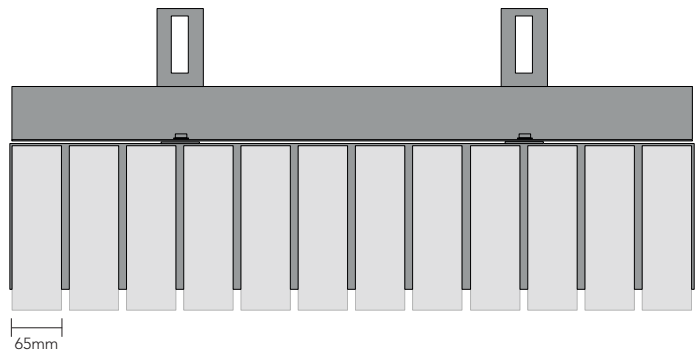
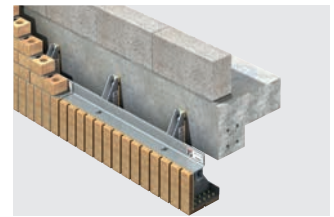
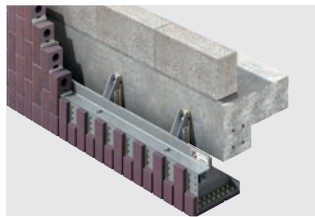
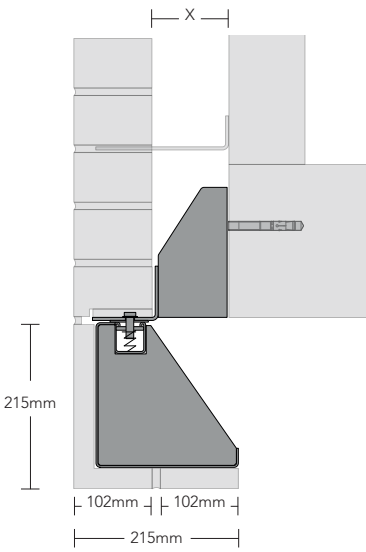




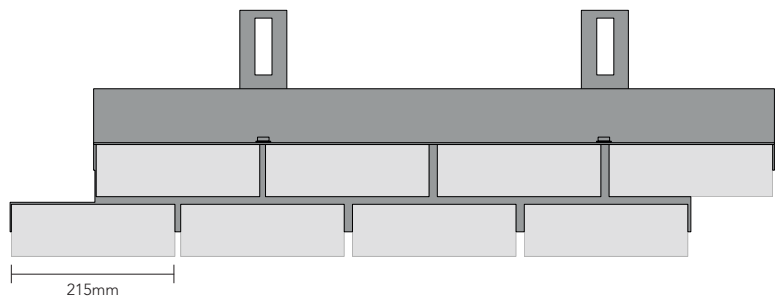
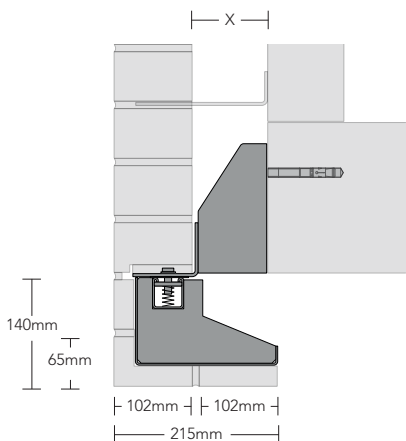
Half Lap Bond 215-327

Brick On Soffit System Range

Brick on soffit systems are a prefabricated brick slip unit which can be fixed to pre-installed masonry support systems.



Soldier Brick On Soffit System 215-215



Stretcher Brick On Soffit System 140-215

IG BRICK SLIP LINTELS

IG's revolutionary Brick Slip adhesion system applied to single leaf lintels.



The only structural steel Brick Slip Lintel, with BBA certification, on the market. Used over windows and door openings, Brick Slip Lintels eliminate the need for additional masonry supports, save time on installation and the need for specialist trades.

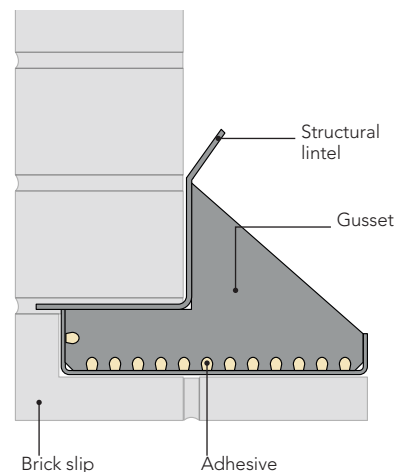


IG's Brick Slip Lintels provide a unique solution for designers and engineers. IG's prefabricated units are manufactured offsite and delivered complete with unpointed bricks bonded to them, offering a major reduction in onsite labour. Brick Slip Lintels are installed in the same way as a standard lintel with no fixings required.

IG receive a consignment of the brick being used onsite to ensure that the finished lintel blends seamlessly with onsite brickwork.

KEY BENEFITS

- Manufactured bespoke to your requirements
- Simply installed as a standard lintel
- Blends seamlessly with already constructed brickwork
- Prefabricated for major reduction in onsite labour requirement
- Cost saving
- BBA Certified



Suitable for
**Openings
over windows
and doors**

Please contact IG for full technical support

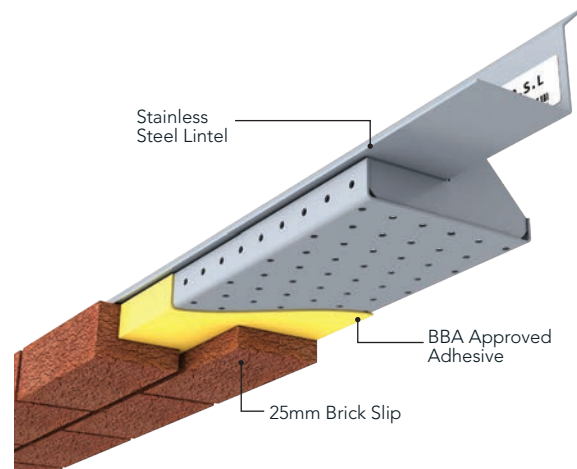
**SUPPORT HOTLINE
01283 200 157**

PATENTED BRICK TO STEEL BONDING

With thousands of installations completed over the past two decades, the IG system is a proven and reliable solution.

The patented design of the perforated steelwork allows the adhesive to pass through and form a mushroom on the inside of the steel, creating a physical key.

Our patented Brick Slip System has undergone independent testing by Ceram.



CERAM BUILDING TECHNOLOGY

Test report Number SW238/02



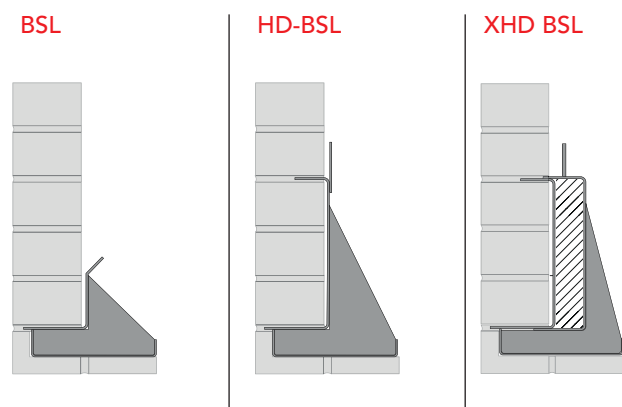
BRICK ADHESIVE

IG uses a specialist high-performance adhesive designed primarily for the decorative brick industry which has been extensively tested and is BBA approved.

CONTROLLED CONDITIONS

IG Brick Slip Lintels are produced offsite in a factory environment. This ensures that the bonding process occurs in optimum controlled conditions free from wet weather, extreme temperature variations and excessive dust.

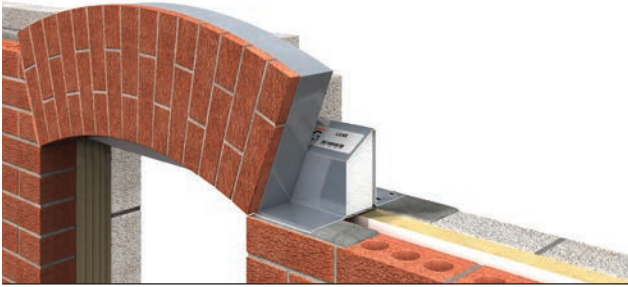
Design variations
IG's Brick Slip Lintels can accommodate any loading capacity. Our design team can offer solutions for any load and bond pattern required.



Various bond patterns available such as: Stretcher, Header and Rowlock.

SEGMENTAL ARCH 1½ brick deep

IG's Segmental Arch BSL comprises of a standard L1 profile lintel with a steel box frame on the outer flange. The lintel is insulated in the cavity and spans from inner to outer leaf. This design can incorporate 1 brick, 1½ brick or a 2 brick soldier course.



FLAT ARCH 1½ brick deep

IG's Flat Arch BSL comprises of a modified C-section that allows brick to be fixed to the front face. This design can incorporate 1 brick, 1½ brick or a 2 brick soldier course.



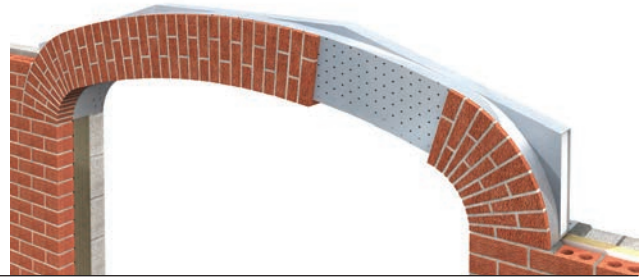
GOTHIC ARCH

IG's Gothic Arch BSL is a modified Gothic Arch lintel with a box section on the outer leaf. The lintel is insulated in the cavity and spans from inner to outer leaf. This design can incorporate 1 brick, 1½ brick or a 2 brick soldier course.



PARABOLIC ARCH

IG's Parabolic Arch BSL is a modified Parabolic Arch lintel with a box section on the outer leaf. The lintel is insulated in the cavity and spans from inner to outer leaf. This design can incorporate 1 brick, 1½ brick or a 2 brick soldier course.



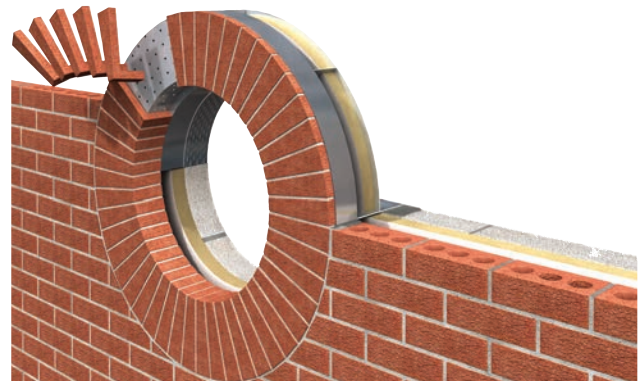
APEX ARCH

IG's Apex Brick Arch Set is special apex lintel with a box section on the outer leaf. The lintel is insulated in the cavity and spans from inner to outer leaf. This design can incorporate 1 brick, 1½ brick or a 2 brick soldier course.



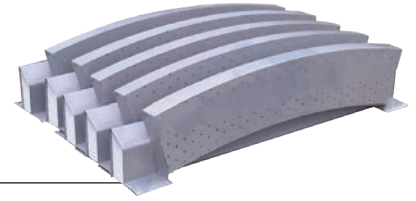
FULL ARCH BULLSEYE

IG's Bullseye Brick Arch Set is a modified arch lintel with a circular box section on the outer leaf. This design can incorporate 1 brick, 1½ brick or a 2 brick soldier course.



BESPOKE PROJECT

SEGMENTAL ARCH BRICK SLIP LINTEL



134 SEGMENTAL ARCH BRICK SLIP LINTELS WERE MADE TO ORDER FOR A BESPOKE PROJECT.

BESPOKE PROJECT

CORBELLED ARCH BRICK SLIP LINTEL



CORBELLED ARCH PRIVATE DWELLING.

IG BRICK SLIP SOFFIT PANEL

Brick Slip Soffit Panels offer architects a unique solution to achieving deep brick soffit designs.

Suitable for
Deep soffits

Please contact IG for
full technical support

SUPPORT HOTLINE
01283 200 157



IG's Brick Soffit Panels are prefabricated units manufactured offsite and delivered complete with bricks bonded to them.

IG's Brick Slip Soffit Panels are lightweight prefabricated brick slip cladding systems which enable designers and specifiers to achieve a deeper soffit which blends seamlessly with already constructed brickwork.

Produced offsite, this innovative system enables masonry to be assembled with speed and efficiency without the need for specialist trades.

The interlocking panel system is quick and easy to install and eliminates the need for any brick cutting or bonding of brick slips onsite.

The individual interlinking panels are fixed to the timber substructure with screws. The stainless steel screws are fixed within the mortar joints and hidden once pointed.

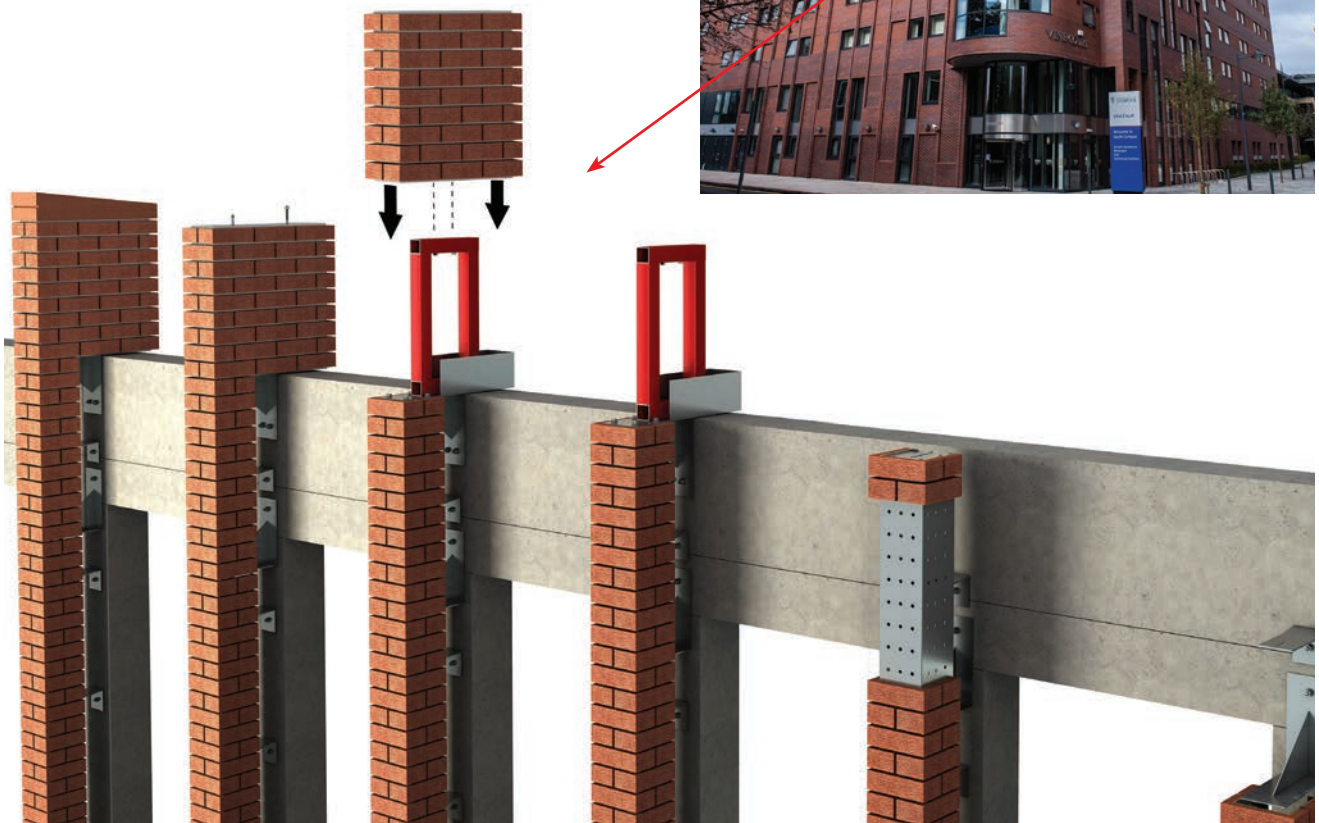
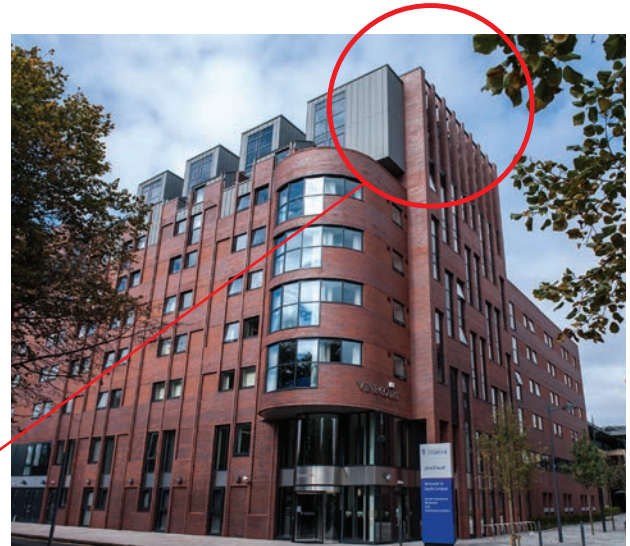
KEY BENEFITS

- Achieve deep brick soffit detail
- Lightweight
- Reduced labour – no brick fixings required onsite
- Blends seamlessly with already constructed brickwork
- Various bond patterns can be achieved



Bespoke Brick Slip Solutions

IG designed and produced a totally bespoke solution for this complex brickwork project on new student accommodation at Liverpool University.



Brick Slip Panel Solutions

IG's bespoke components use our patented adhesion system and are delivered to site as a complete bricked unit ready for installation and final pointing.



Step 1 The brick slip panel is positioned, fixed and built into the outer skin.

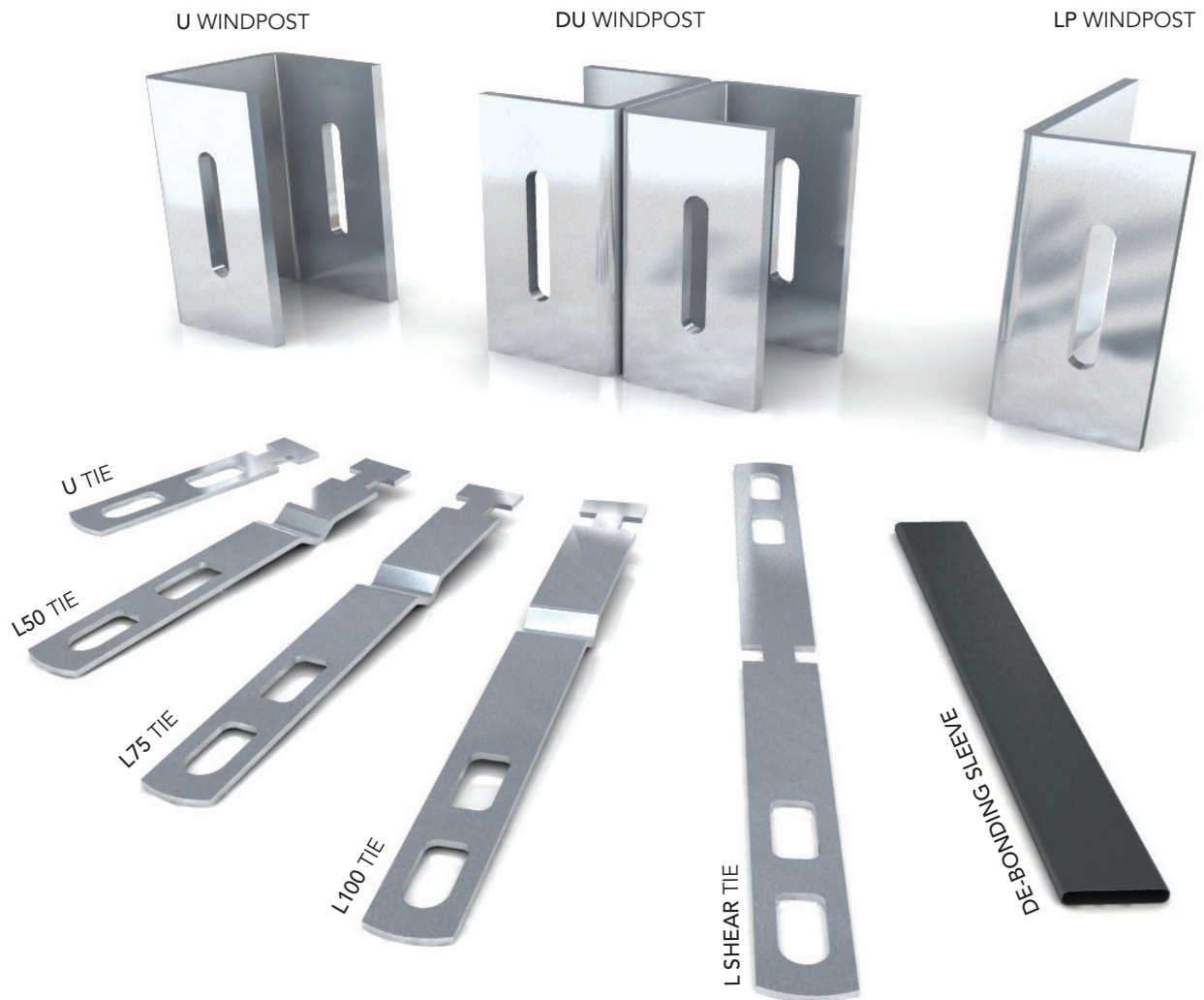


Step 2 The brick slips are pointed to ensure a seamless appearance.

If you require bespoke brick slip solutions please contact
SUPPORT HOTLINE 01283 200 157

IG Windposts

IG continually set the standard in windpost design. With a nationwide team of experienced engineers at your disposal, we continue to set ourselves apart from the rest.



WINDPOSTS

IG manufacture three types of windpost.

U Windpost

The U Windpost is a channel section designed for standard loading conditions and is installed within the cavity.

DU Windpost

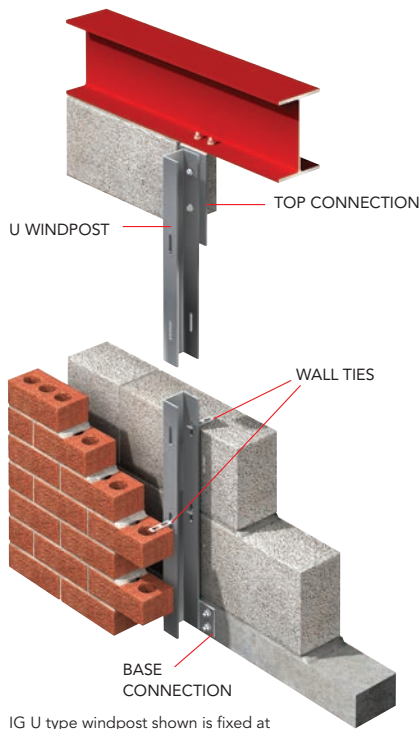
The DU windpost is a “back-to-back” channel section designed for heavier loading conditions and is installed within the cavity.

LP Windpost

The LP Windpost is an “L” shaped section designed to suit a range of loading conditions and is built into the inner skin of the cavity wall.

Material Specification

IG Windposts are manufactured from grade 304 stainless steel. The IG technical team will provide full product specification and schedules.



IG U type windpost shown is fixed at the base to concrete and at the top to the underside of a steel beam.

Windpost Connections & Wall Ties

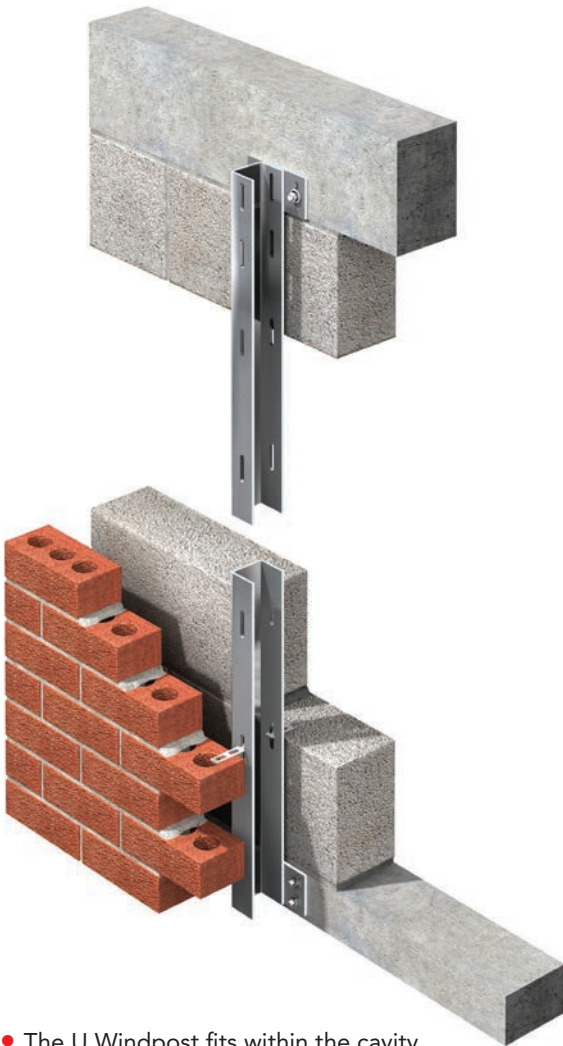
All IG Windposts are supplied with specifically designed base and top connections. They are also supplied with a suitable number of wall-ties which will vary in relation to the post type used and the cavity width. There are five types of wall ties available.

U Tie	For use with U & DU Windposts.
L50	Tie – For use with LP Windposts (50mm cavity).
L75 Tie	For use with LP Windposts (75mm cavity).
L100 Tie	For use with LP Windposts (100mm cavity).
L Shear Tie	For use with LP Windposts.

Note: L Shear Tie can be supplied with a de-bonding sleeve if the windpost is positioned at a vertical movement joint.

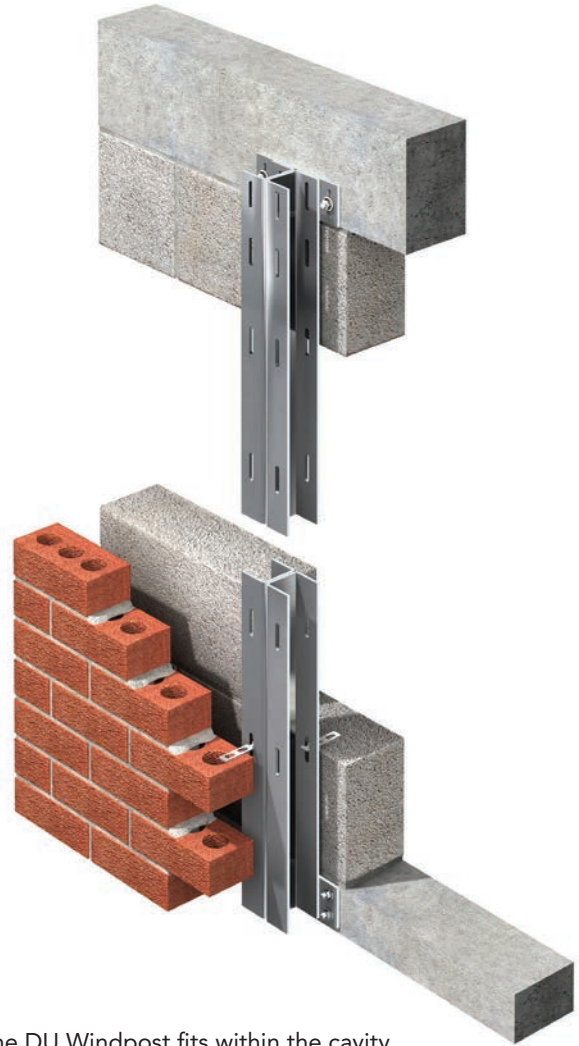


U WINDPOST



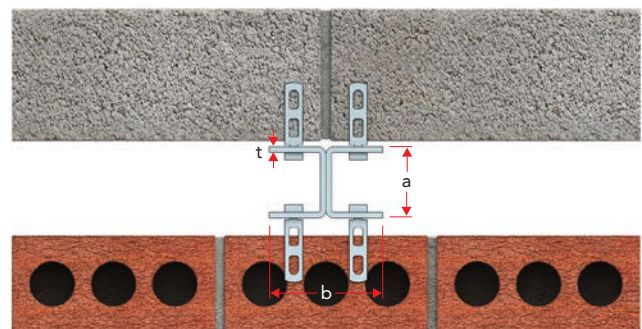
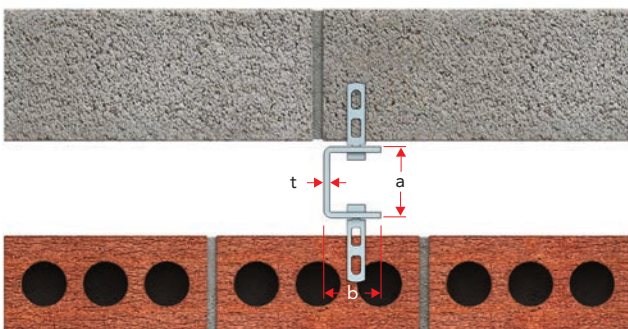
- The U Windpost fits within the cavity and normally spans between floor structures.
- The inner leaf of the cavity wall is totally undisturbed.
- Available in shorter lengths for parapets or below windows (see Parapet & Spandrel Windposts section).
- See loading tables on page 36.

DU WINDPOST

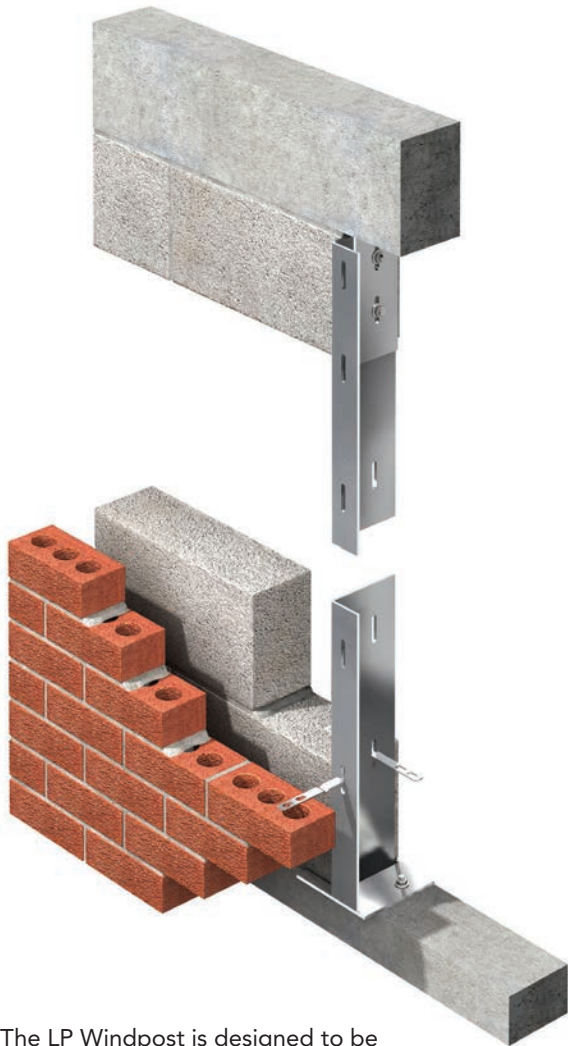


- The DU Windpost fits within the cavity and normally spans between floor structures.
- The inner leaf of the cavity wall is totally undisturbed.
- The DU Windpost is a heavier duty variant of the U Windpost.
- Available in shorter lengths for parapets or below windows (see Parapet & Spandrel Windposts section).
- See loading tables on page 36.

U WINDPOST AND TIES

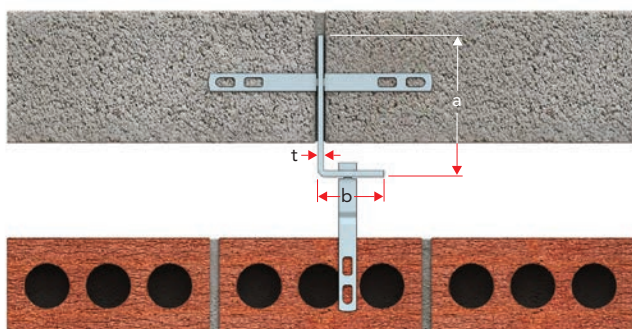


LP WINDPOST



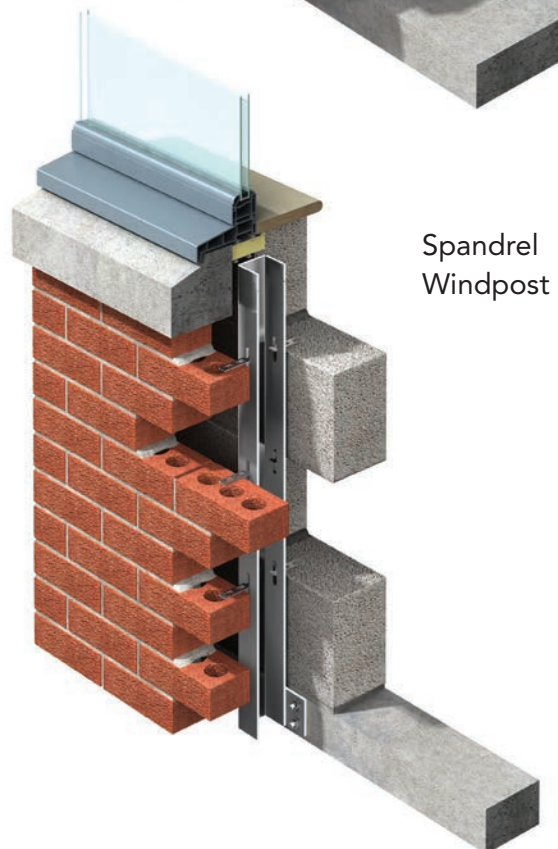
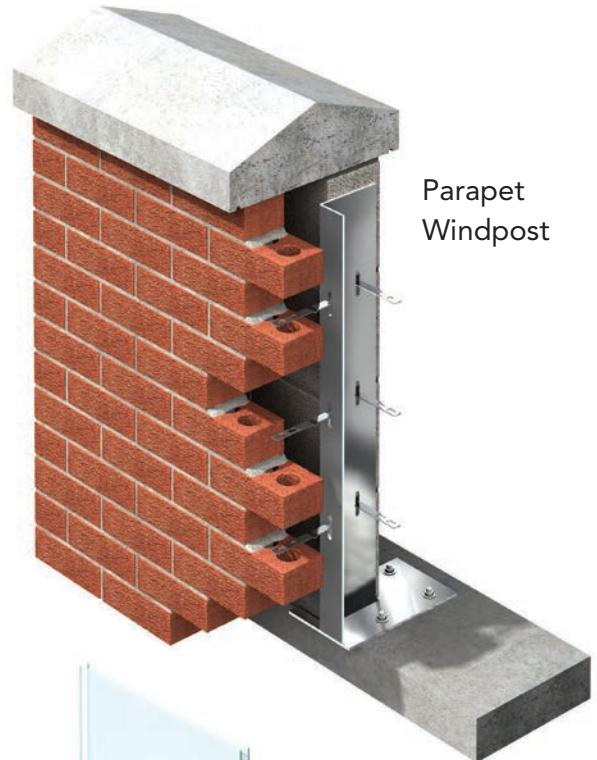
- The LP Windpost is designed to be built into the inner skin of the cavity wall and will normally span between floor structures.
- The LP Windpost is designed to suit a range of loading conditions
- Available in shorter lengths for parapets or below windows (see Parapet & Spandrel Windposts section).
- See loading tables on page 36.

LP WINDPOST AND TIES



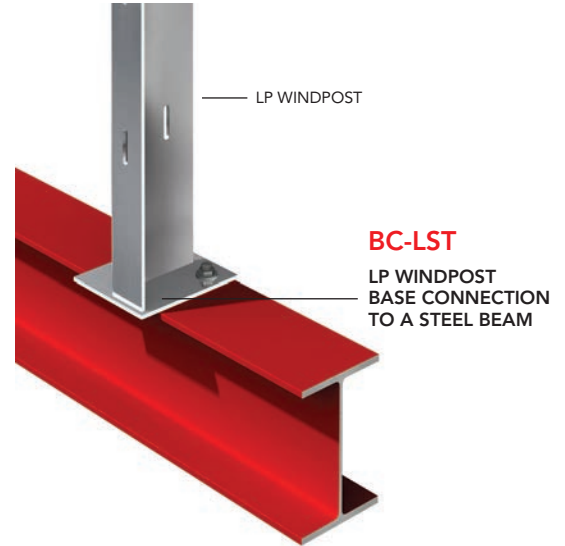
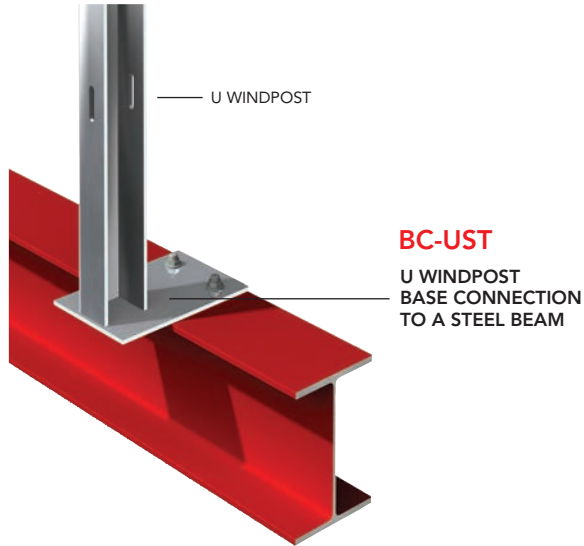
PARAPET & SPANDREL WINDPOST

All three windposts designs are available in shorter length to provide the same level of stability to parapets or below windows, commonly termed parapets or spandrel windposts respectively. These posts are designed as cantilevers and are rarely more than 1.6 metres in height. The base connection is engineered to resist bending moment.



IG WINDPOST CONNECTIONS

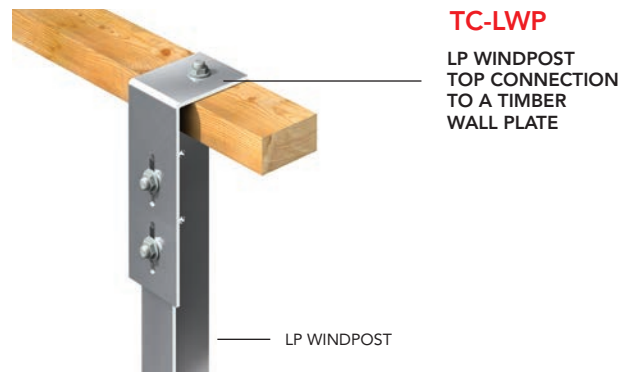
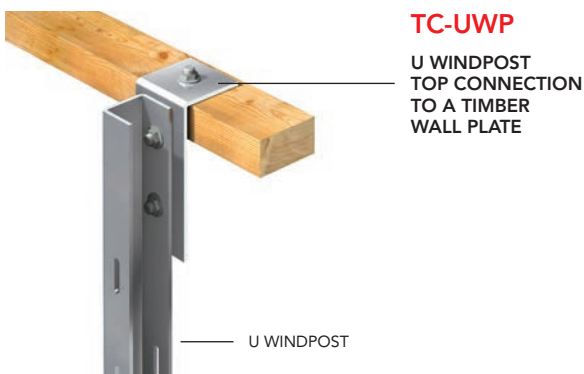
All IG windposts are designed with top and base plate connections for fixing to the super structure of the building. It is important that windposts are fully fixed before commencement of the brickwork.

TYPICAL BASE CONNECTIONS

These connector examples are just a few of the possible configurations, please contact our Technical Department for assistance with your exact requirements.

TYPICAL TOP CONNECTIONS

Please note: The top connection allows for shrinkage or vertical movement of the frame.



These connector examples are just a few of the possible configurations, please contact our Technical Department for assistance with your exact requirements.

Design Data Sheet

To enable us to provide you with an accurate and cost effective solution, please complete all sections.
 Submit to IG Technical Department on fax **01283 226 616** or email **support@igmss.co.uk**

Name: _____

Company: _____

Tel: _____ Mobile: _____

Email: _____

Job Ref: _____

1	Wall Construction	Outer Leaf mm	Cavity Width mm	Inner Leaf mm
2	Windpost Type	<input type="checkbox"/> U WINDPOST <input type="checkbox"/> DU WINDPOST <input type="checkbox"/> LP WINDPOST		

3	Windpost Dimensions	Length (a): mm	Breadth (b): mm	Thickness (t): mm
----------	----------------------------	---------------------	----------------------	------------------------

4	Quantity Required	Windposts
----------	--------------------------	-----------

5	Top Connection	Tick type required
----------	-----------------------	--------------------

<input type="checkbox"/> Steel Beam <input type="checkbox"/> Concrete <input type="checkbox"/> Intermediate Timber Floor <input type="checkbox"/> Timber Wall Plate	
Off-set distance mm Beam Size eg: 203 x 133 x 30 UB x x 	
Dimensions of wall plate w = mm d = mm o = mm 	

6	Base Connection	Tick type required
----------	------------------------	--------------------

<input type="checkbox"/> Steel Beam <input type="checkbox"/> Concrete <input type="checkbox"/> Intermediate Timber Floor	
Off-set distance mm Beam Size eg: 203 x 133 x 30 UB x x 	

7	Structural Opening
----------	---------------------------

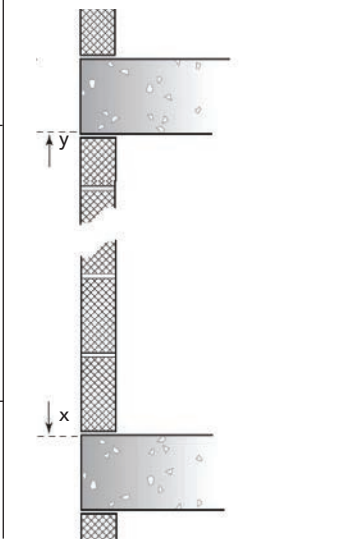
Distance between structural elements
x ↔ y = mm

8	Distance to first tie slot
----------	-----------------------------------

Distance from base to first bed joint of inner leaf i ↔ j = mm	
--	--

This form may be downloaded from **igmasonrysupport.com** or alternatively please photocopy this template and fax back to **01283 226 616**

Please forward any relevant architects or structural engineers drawings to aid us in the preparation of your quotation.



CASE STUDIES

The following pages detail projects that highlight the benefits of specifying IG Masonry Support products.





BRICK SLIP FLAT GAUGE LINTELS & SEGMENTAL ARCH

Shrewsbury School, Hodgson Hall



Commercial Development:	Shrewsbury School, Hodgson Hall
Products Used:	Brick Slip Flat Gauge Lintels & Segmental Arch
Architect:	Adrian James Architects
Contractor:	Paveways

“ IG were instrumental in achieving both the curved and splayed brickwork arches which were essential to the form of the principle elevations of the new humanities building at Shrewsbury School. The soaring curved arch over the main entrance is particularly striking and with only 10mm tolerance to boot! What an achievement.

Mike Marshall,
Adrian James Architects

The Challenge

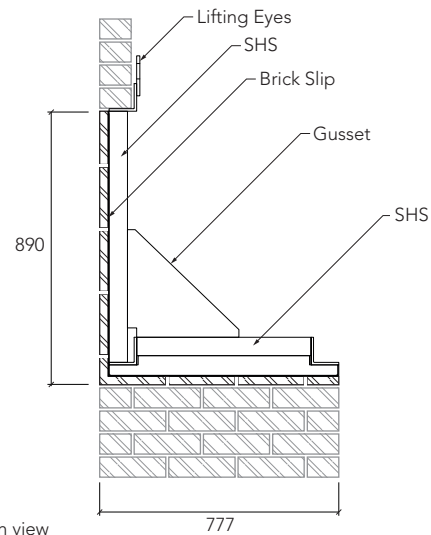
Shrewsbury School is considered one of England's leading independent schools. Hodgson Hall is the latest addition to the teaching facilities at the school, designed to fit seamlessly amongst the historic campus surroundings of the Kingsland Conservation Area. The client required IG Masonry Support to provide several customised brick clad lintel solutions for the project. This involved forming an elegant 12.3m clear span feature brick segmental arch with a face height of 552mm and a 777mm soffit. In addition, the client also required a flat gauge brick slip solution for the upper level of the build spanning 4.5m, with a face height of 890mm and a soffit of 777mm.

The Solution

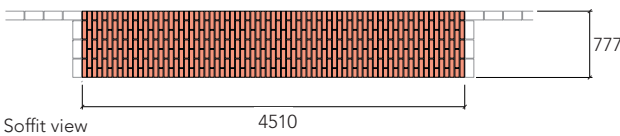
IG's engineers designed and manufactured a bespoke steel solution for the 12m segmental arch. The size of the installation determined that the arch would be manufactured in three separate components. The sections were fixed to stub posts on the steel frame of the building, also designed and supplied by IG. The unique Brick Slip Systems were produced offsite in partnership with Fab-Lite Building Solutions Ltd, dramatically reducing the installation time by up to 90%. The bricks selected ensured the advanced Brick Slip solutions provided architectural consistent features.



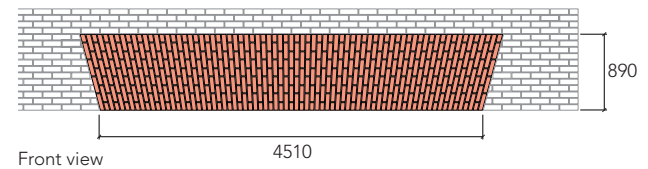
FLAT GAUGED LINTEL



Section view

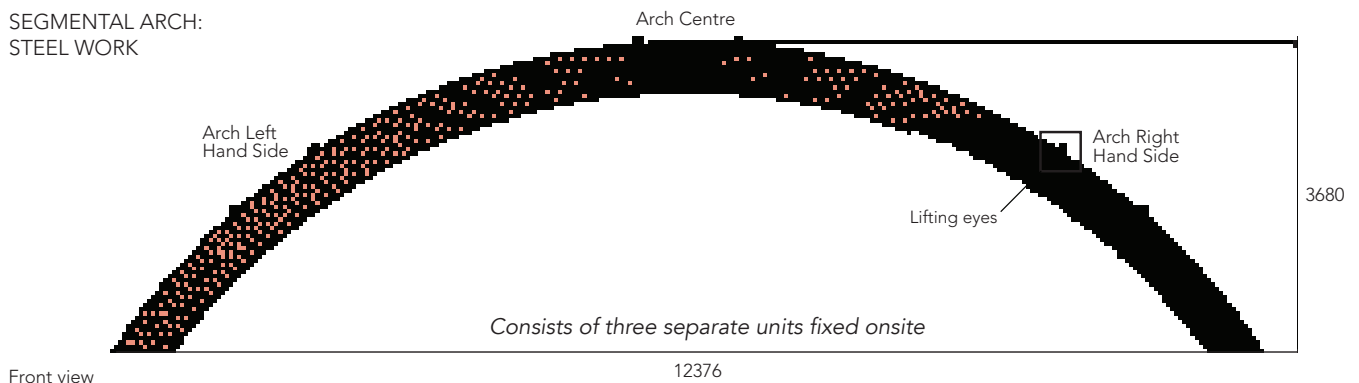


Soffit view



Front view

SEGMENTAL ARCH:
STEEL WORK



Front view

12376

BRICK SLIP COLUMNS, BRICK SLIP CILLS & LINTELS

Artillery Row, London



Residential Development:	Artillery Row, London
Products Used:	Brick Slip Columns, Brick Slip Cills & Lintels
Architect:	Make Architects
Contractor:	8Build

“ IG identified the need for lightweight brick slip steel columns, lintels and cills for this Art deco refurb. The end result demonstrates a resounding level of craftsmanship and quality, creating exceptional detail to the balcony areas—a great partnership. ”

Mark Richards,
Managing Director
LiteSpeed Construction Systems Ltd



BRICK DEVELOPMENT ASSOCIATION
CHAIRMAN'S AWARD

Winners

The Challenge

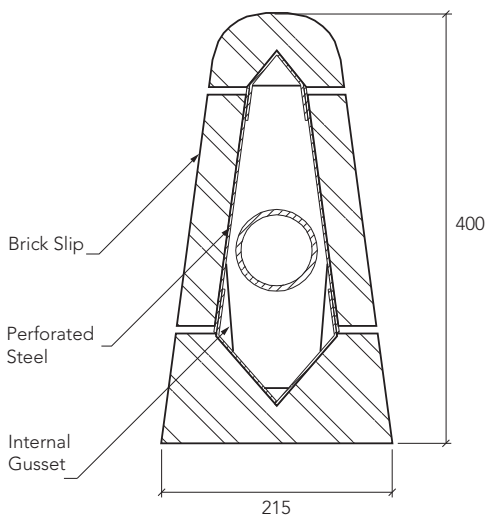
Comprising of 22 luxury apartments, Artillery Row by LBS Properties & 8Build is a building of architectural prowess. Located near Buckingham Palace and Westminster Cathedral, the building compliments its historical surroundings with prestige. The project required the design and installation of 96 slender brick columns built along the recessed balconies. The architectural designs originally detailed the 215mm wide by 400mm deep columns in concrete, however this would not provide the required structural stability. IG Masonry Support designed a steel support solution while remaining true to the aesthetics of the building. IG were also responsible for the manufacturing of Brick Slip Lintels and sills above and below the columns.

The Solution

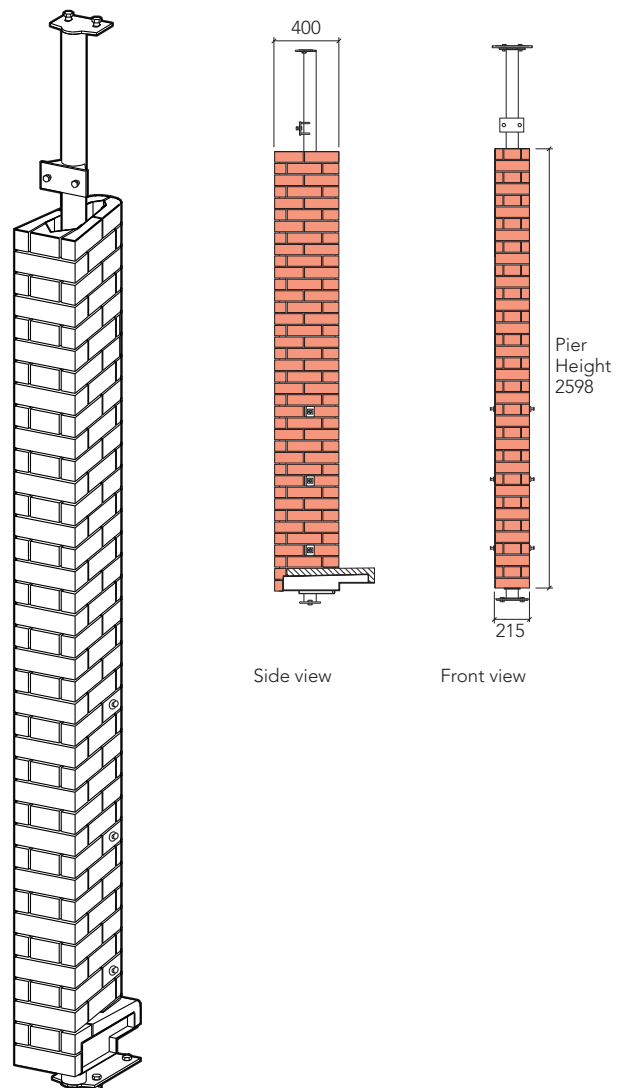
IG Masonry Support designed a steel solution with a central post that utilised their patented punched steel, formed to shape around each column, providing a suitable surface for bricks to be bonded.

The bespoke handmade bricks, sourced from a factory in Leicester, captured a timeless essence that reflected the building's surroundings. The pattern of the brickwork, the mortar joints and every aspect of the installation process were carefully considered.

The brick columns were manufactured offsite in partnership with LiteSpeed Construction Systems within a strict quality controlled environment. The contractor could then request the units and install with bolts top and bottom. The end result is stunning.



Section view



Side view

Front view

3D view

BRICK SLIP MASONRY SUPPORT & BRICK SLIP LINTELS

North London



Private Dwelling:	North London
Products Used:	Brick Slip Masonry Support & Brick Slip Lintels
Architect:	PKS Architects
Contractor:	Relicpride

“ Every detail on this project needed to be impeccable, that’s why we engaged with IG for their brick soffit solutions. ”

Eamon Coyle, Director,
Relicpride Building Company Ltd


Relicpride
BUILDING WITH PRIDE

The Challenge

Relicpride is a privately owned company in Hertfordshire, specialising in prestige high specification private dwellings. This North London project required exposed brick soffit detail with spans of 21m and external corners; Relicpride turned to IG Masonry Support Systems for a solution.

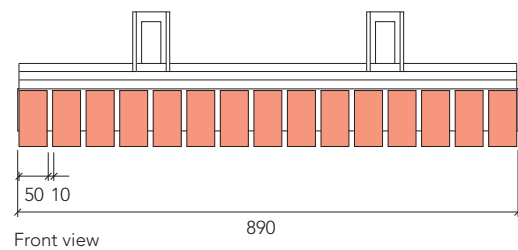
The Solution

Relicpride required a bespoke brick soffit solution engineered to fine tolerances. The result was an offsite solution by IG with consistent quality throughout all components.

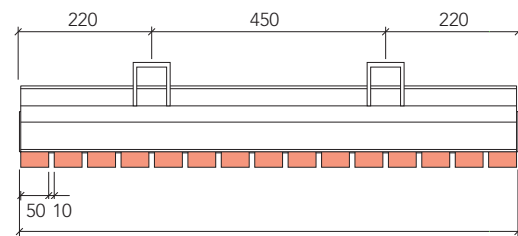
IG supplied 890mm long stainless steel units with bricks bonded to them, suitable for a one man installation. The lower ground floor featured a Hernin (Dark) brick whereas the ground floor featured a Hoskin Bento (Light) brick type. Both bricks were non-standard sizes. IG's solution was implemented across all floors ensuring a visible 100mm brick soffit over every opening.

In many cases the brick soffit detail returned around external corners which involved forming an elegant corner soffit pattern using a fabricated brick faced on 3 sides.

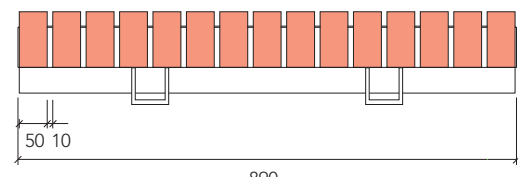
These bespoke solutions were produced offsite and delivered direct, specific to site requirements.



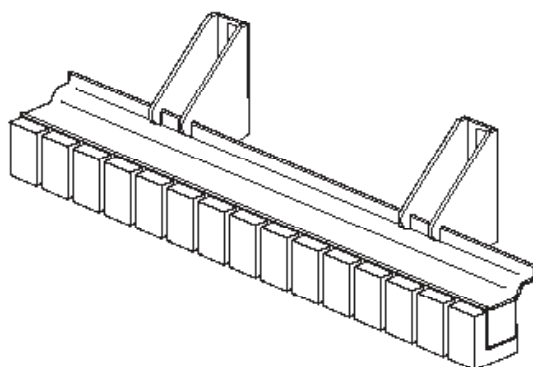
Front view



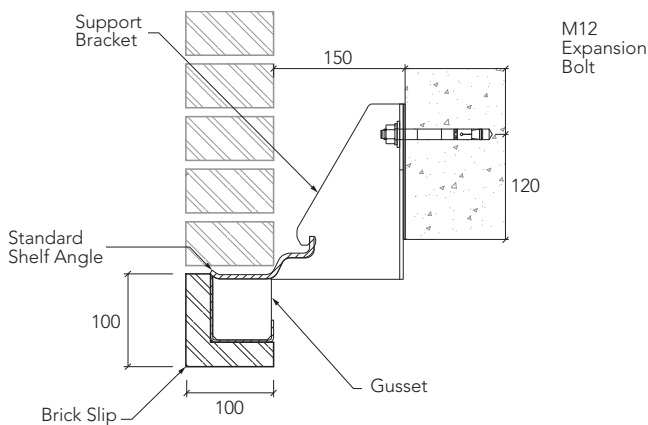
Plan view



Side view



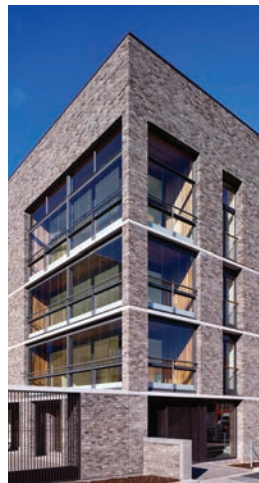
3D view



Section view

BRICK SLIP MASONRY SUPPORT & BRICK SLIP LINTELS

Laurieston, Glasgow



Residential Development:	Laurieston, Glasgow
Products Used:	Brick Slip Brick Masonry Support & Brick Slip Lintels
Architect:	Elder Cannon/Page Park
Contractor:	McTaggart Construction

“ The technical expertise offered by IG has been second to none and allowed us to find a bespoke product, which is lightweight and can be installed just as a traditional masonry support system. ”

Colin Stephen,
McTaggart Construction



**BEST URBAN
REGENERATION PROJECT**

Winners

The Challenge

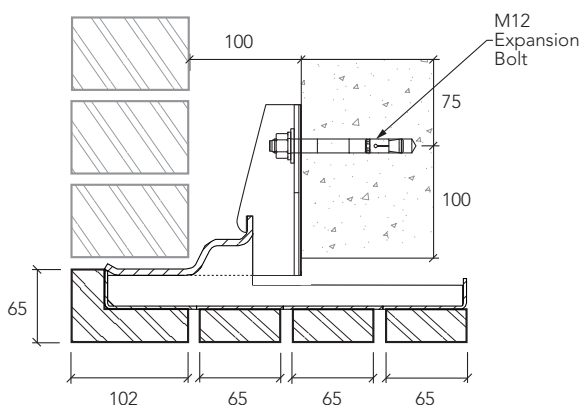
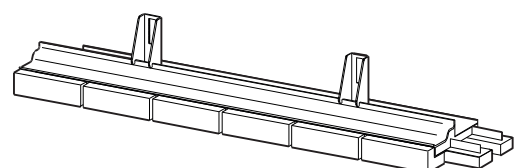
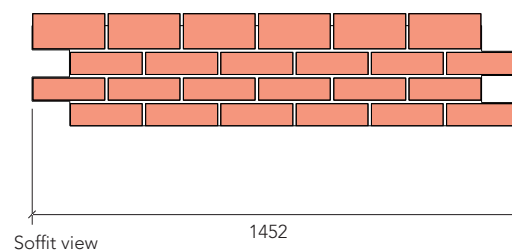
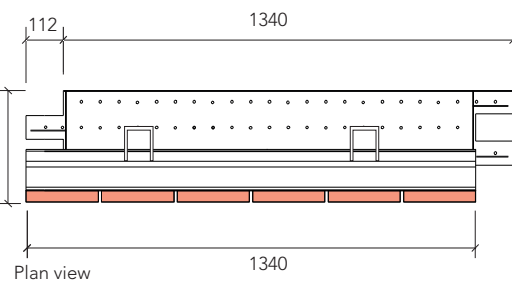
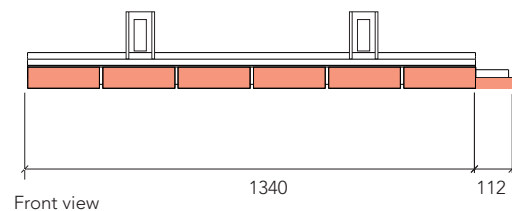
The Laurieston development provided a significant opportunity for transformation, regenerating part of central Glasgow. The £22 million First Phase development enriched the typical residential block concept, incorporating more compelling character, including courtyards and the exchange of bay windows for long spanning balconies. McTaggart Construction approached IG's team for the provision of a Brick Slip Masonry Support solution. The technical challenges involved 327mm deep Brick Soffits spanning over 8m; a requirement for the recessed balconies.

The Solution

IG Masonry Support combined bespoke Brick Slip Masonry Support Systems and Brick Slip Lintels to ensure seamless and structural brick clad soffits for all openings. IG recieved a consignment of the bricks being used on the project, which were then cut down to 25mm slips. The brick slips were bonded to the patented steel system, which enabled the BBA approved resin to mushroom through the perforations in the steel and form a mechanical lock.

The revitalised contemporary homes offer a newfound vibrancy to the community, whilst also ensuring the retention of clearly defined blocks to reinforce the grid of the city.

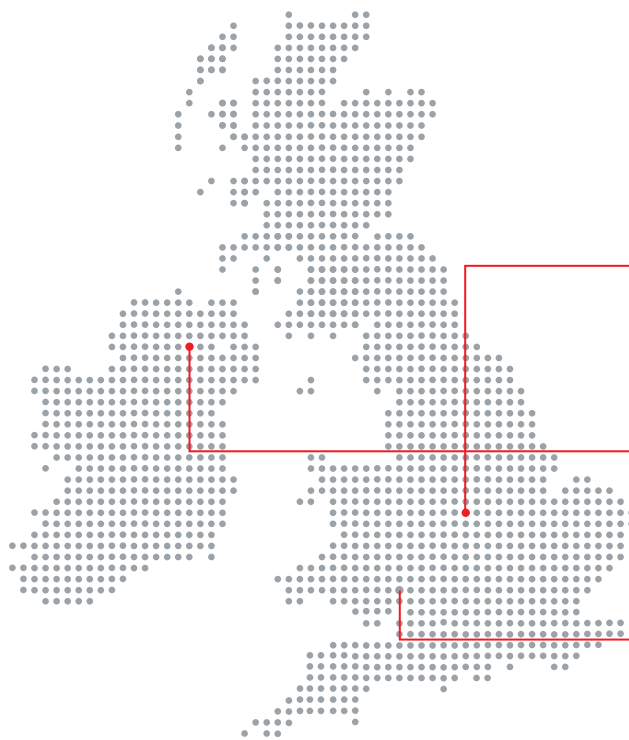
The area has been revived with affordable high quality living, a project which has since been awarded with the "Best Urban Regeneration Project" at the prestigious Brick Awards.



Section view

3D view

igmasonrystupport.com



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