



**Ibstock  
Kevington**

# **FASTSTACK™ CHIMNEYS**

TIME-SAVING  
CHIMNEY BUILDING



**Ibstock**  
At the heart of building

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As part of Ibstock Brick, **Ibstock Kevington** is the UK's largest brickwork special shape and masonry fabrication company with 16 manufacturing sites across the country. Our nationwide coverage ensures that we can supply the products you need quickly and cost effectively supported by an experienced technical and design service team.



## WHY CHOOSE FASTSTACK™ CHIMNEYS?

Faststack™ is a concept in chimney design suitable for both fully working and decorative functions. Faststack™ chimneys are easy to install saving both time and money on-site.

IBSTOCK'S FASTSTACK CHIMNEYS OFFER A MARKET LEADING, HIGH PERFORMANCE, SAFE AND BEAUTIFUL ALTERNATIVE TO TRADITIONALLY CONSTRUCTED CHIMNEYS



Safe and **assured**



Easy **installation**



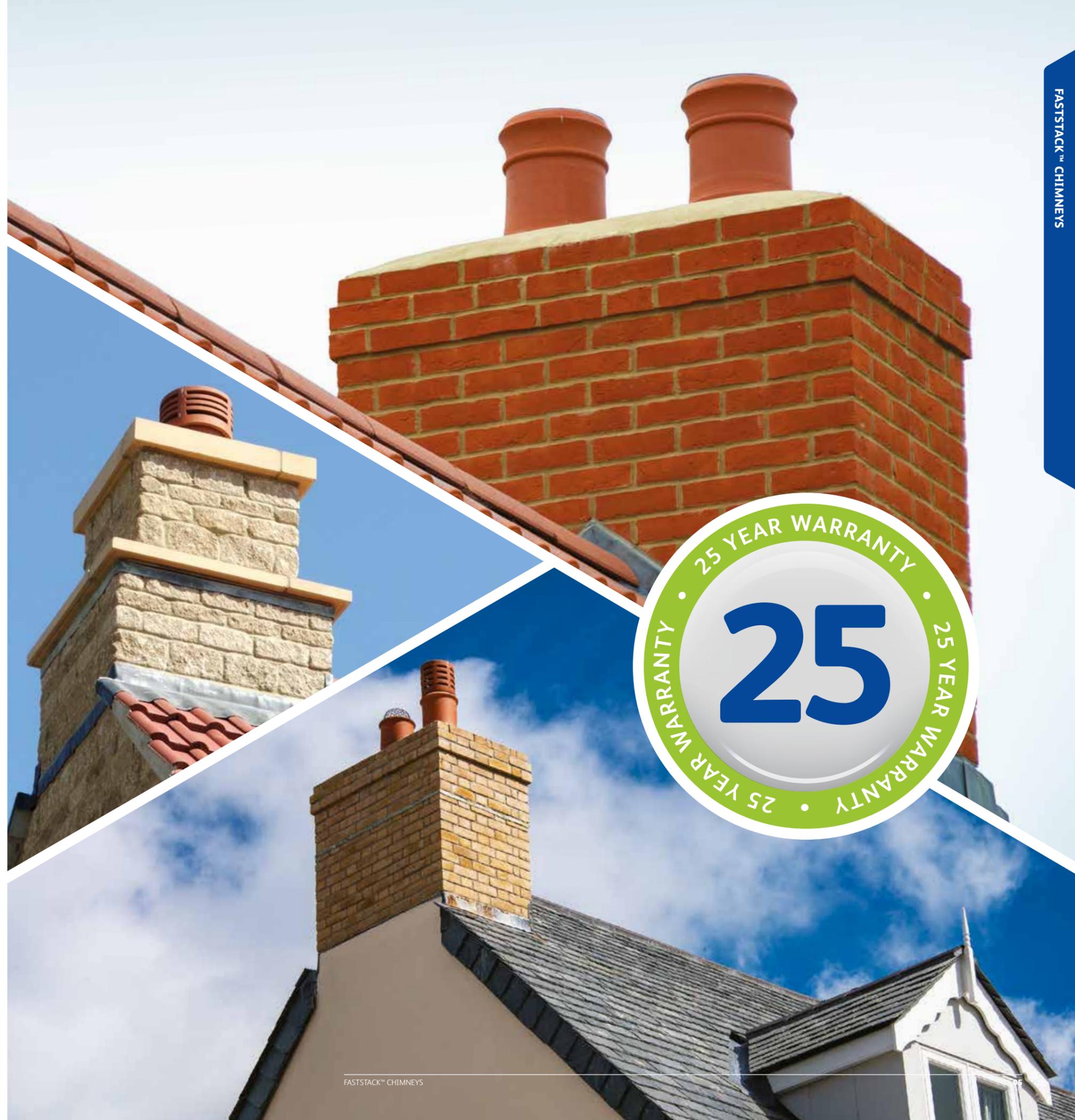
Design **flexibility**



High **quality**

The Faststack™ concept has been developed to make the installation of working and decorative chimneys simple and cost effective. The compact design enables the installation of chimneys in situations where traditionally constructed ones would not be possible.

Chimneys may be clad in real brick slips, stone slips or render to suit your housing design. Alternatively we can offer a range of lightweight brick effect chimneys for decorative purposes. **For technical advice and design service is available, call 0844 736 0350.**



# BRICK-CLAD FASTSTACK™ CHIMNEYS

The brick-clad Faststack™ Chimney System is a prefabricated range of working and cosmetic only chimneys. Available in a range of standard designs, they comprise of GRP (Glass Reinforced Plastic) cores which are clad in traditional facing materials thereby complementing the properties on which they are to be installed.



IBSTOCK KEVINGTON WAS THE FIRST TO GAIN BBA CERTIFICATION FOR ITS BRICK-CLAD CHIMNEYS, GIVING YOU TOTAL CONFIDENCE FOR IN EXCESS OF 25 YEARS.

Faststack™ Chimneys were the first products to meet the requirements of the CGMA. This provides third party performance testing developed with the assistance of the NHBC.

1. ✓

Flues are compact and easy to install, saving both room space and time on-site.

2. ✓

Faststack™ Chimneys are fixed to the roof trusses whilst the built in flashing channels ensures a waterproof seal.

3. ✓

Hearths and fireplaces do not require no extensive foundations or supporting masonry to support the chimney.

4. ✓

All of our chimneys can be made using any brick, stone or render from your project for the best match.



## Venting options

Many of the chimneys in the range are available as fully working units, suitable for venting both Class 1 & Class 2 appliances. These chimneys include a pre-installed Twinwall flue system selected to suit the particular requirements of the project. Once on site the system is simply linked to the existing flue system using appropriate couplings.

# NOT ALL CHIMNEYS ARE THE SAME ANY ROOF, ANY PITCH, ANY LOCATION ON THE ROOF

- 1** Choice of traditional flaunching or GRP stone effect capping to suit regional preferences
- 2** Various corbel details available to add style
- 3** One piece corners for seamless appearance
- 4** Tested for long term durability
- 5** Real clay pots
- 6** Certified lifting system ensures safety
- 7** Real brick slips weather naturally to match existing facings
- 8** Full range of venting options, to suit gas and solid fuel – Class 1 and Class 2
- 9** 4mm one piece GRP water tested core – available in Class O
- 10** Innovative, leak proof, flashing channel
- 11** Integrated fixing plate allows total flexibility

✓ FULL INSTALLATION INSTRUCTIONS AND FIXING PACK INCLUDED





25 YEAR WARRANTY



Approved by NHBC



BBA Certification



Quality assured



The NHBC recommend that only chimneys that are made to CGMA standards or third party accreditations are to be used. NHBC Technical Advice. June 2012.

# BRICK-CLAD FASTSTACK™ CHIMNEY RANGE & LOCATIONS



## Gable End Ridge

The Gable End Ridge chimneys are designed to allow the brickwork to continue from the gable wall into the chimney unit.



## Mono Pitch

Faststack Mono Pitch chimneys can be located anywhere on the roof pitch.

SUITABLE TO BE LOCATED ANYWHERE ON THE ROOF PITCH



## Mid Ridge

In situations where the chimneys are not located directly over the gable wall, the Mid Ridge design can be used.



## Parapet

Parapet chimneys can be designed to accommodate a variety of heights and widths and include a cut out area to allow the chimney to be seated traditionally on the parapet wall.

SUITABLE FOR INSTALLATION DIRECTLY OVER A PARAPET WALL

## NHBC Guidance

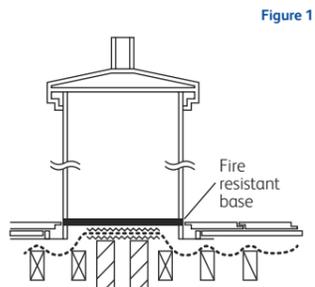
FIRE PROTECTION AT THE JUNCTION OF A SEPARATING WALL TO A PITCHED ROOF IS USUALLY ACHIEVED BY THE PROVISION OF MINERAL QUILT TO FILL GAPS BETWEEN THE WALL, ROOF UNDERLAY AND ROOF COVERING, ACROSS THE FULL WIDTH OF THE WALL. **IT IS ESSENTIAL THAT THE FIRE PROTECTION IS NOT COMPROMISED.**

To prevent the spread of fire, the dummy chimney should be provided with a fire resistant base so as to achieve the fire protection.

Any gaps between the base of the chimney and the separating wall should be filled with a non-combustible material in a similar manner to the fire stopping provided between the party wall and roof covering.

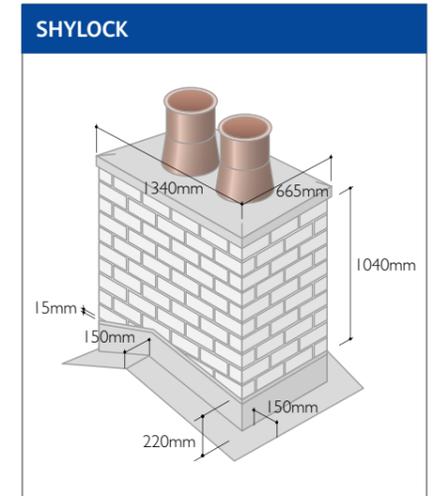
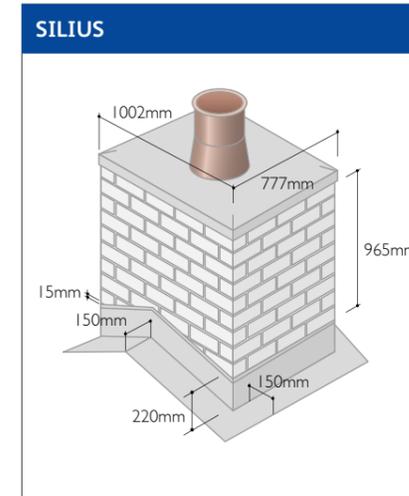
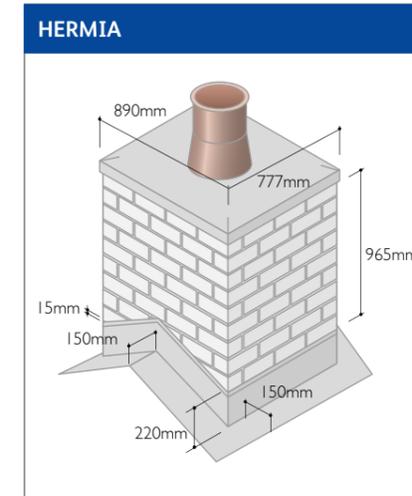
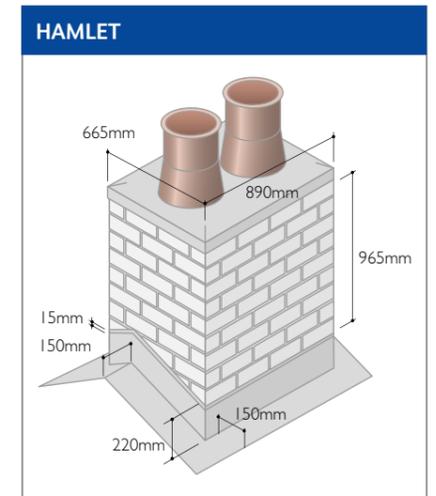
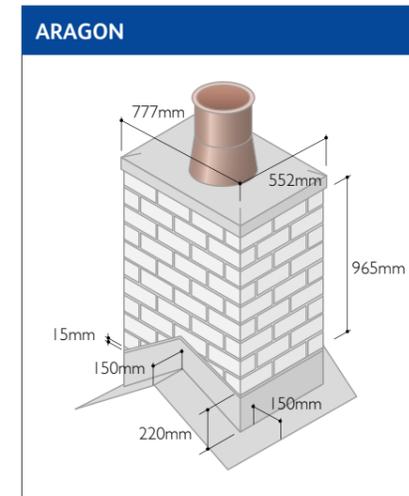
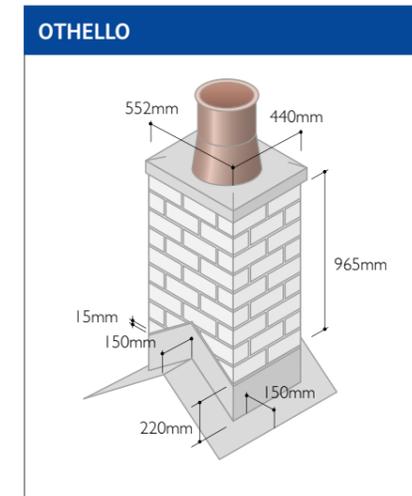
One way of achieving this is to adopt the detail shown in Figure 1. It shows the typical fire stopping provided between the wall and roof covering continuing under the dummy chimney. It is important that the method of fire protection provided under the dummy chimney links fully with the fire stopping provided between the wall and roof covering. The secondary weatherproofing provided by the roof underlay should be maintained by either continuing the underlay under or dressing it around the chimney.

FOR TECHNICAL AND DESIGN ADVICE CALL 0844 800 4576  
[www.nhbc.co.uk](http://www.nhbc.co.uk)



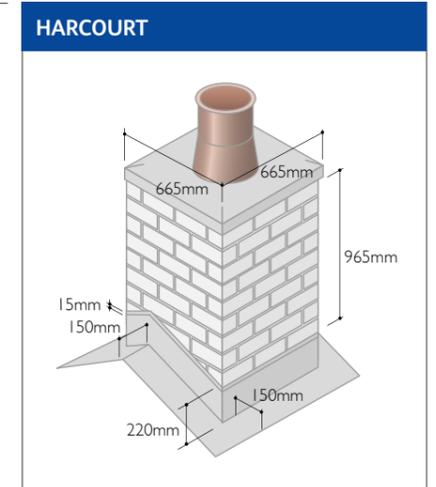
COMPLYING WITH THE NHBC'S GUIDANCE ON FIRE RESISTANCE, WE PROVIDE A FIRE PLATE TO ANY CHIMNEY THAT SITS OVER A PARTY WALL

# BRICK-CLAD FASTSTACK™ CHIMNEY STYLES



## Chimney style and location

STYLE	SIZE (MM)	WEIGHT (APPROXIMATE)	GABLE END RIDGE INC. TWINWALL FLUE SYSTEM	PARAPET	MONO PITCH INC. TWINWALL FLUE SYSTEM	MID RIDGE INC. TWINWALL FLUE SYSTEM
Othello	552 x 440	175kg	N	Y	Y	Y
Aragon	777 x 552	210kg	N	Y	Y	Y
Hamlet	665 x 890	220kg	Y	Y	Y	Y
Hermia	890 x 777	250kg	Y	Y	Y	Y
Silius	1002 x 777	300kg	Y	Y	Y	Y
Shylock	1340 x 665	320kg	N	Y	Y	Y
Harcourt	665 x 665	210kg	Y	Y	Y	Y



FOR TECHNICAL ADVICE PLEASE CALL 0844 800 4575 OR VISIT [WWW.IBSTACKBRICK.CO.UK](http://WWW.IBSTACKBRICK.CO.UK)

Version shown for 35° pitch roof. The height of the Shylock chimney varies according to roof pitch.

# BRICK-EFFECT FASTSTACK™ CHIMNEY RANGE AND LOCATIONS

Brick effect chimneys are a modern and lightweight alternative to brick slip clad chimneys and are suitable for Mid Ridge and Mono Pitch locations for decorative purposes.



## Mono Pitch

FASTSTACK MONO PITCH CHIMNEYS CAN BE LOCATED ANYWHERE ON THE ROOF PITCH.



## Mid Ridge

IN SITUATIONS WHERE THE CHIMNEYS ARE NOT LOCATED DIRECTLY OVER THE GABLE WALL, THE MID RIDGE DESIGN CAN BE USED.

Using the latest in GRP technology they can be manufactured with a finish to match virtually any brick type and include very realistic mortar effect joints. Due to their light weight (25kg average) they can be installed quickly and easily without the need for cranes or heavy duty lifting equipment on site.

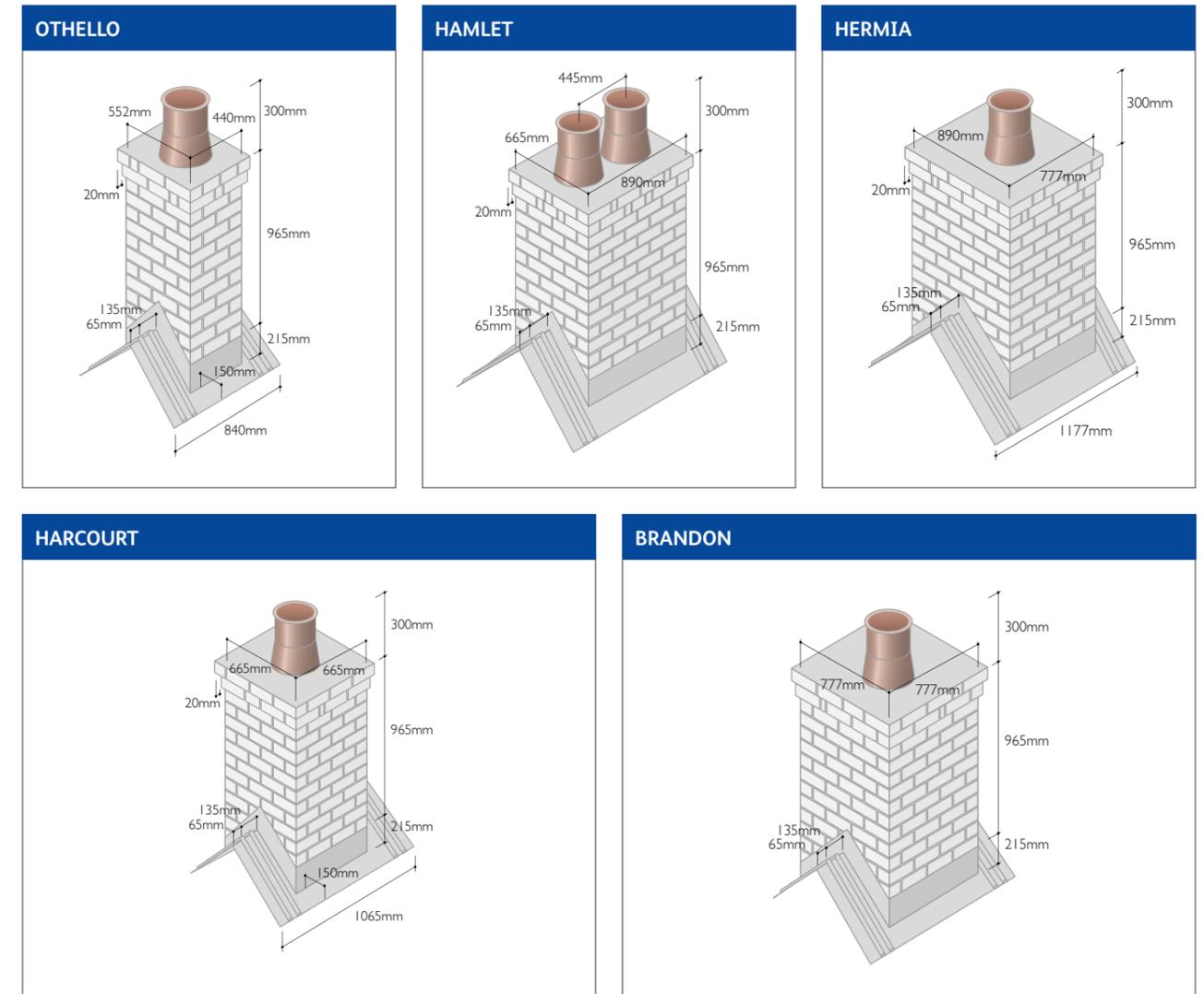


The innovative rain bar system offers an effective flashing solution in conjunction with a simple lead apron at the front and rear of the chimney. The necessary aprons can be included and bonded in to position on the chimney ready for a quick and simple installation process.



We offer a standard range of five designs which are all available with a corbel detail as standard. A stone effect capping can be specified or for a more traditional finish the chimneys can be provided with a flat top for on-site flaunching. All of our brick effect chimneys are CGMA approved and are supplied with standard mortar colour.

# BRICK-EFFECT FASTSTACK™ CHIMNEY STYLES



## NHBC Guidance

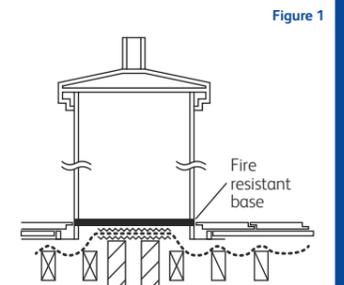
FIRE PROTECTION AT THE JUNCTION OF A SEPARATING WALL TO A PITCHED ROOF IS USUALLY ACHIEVED BY THE PROVISION OF MINERAL WOOL TO FILL GAPS BETWEEN THE WALL, ROOF UNDERLAY AND ROOF COVERING, ACROSS THE FULL WIDTH OF THE WALL. **IT IS ESSENTIAL THAT THE FIRE PROTECTION IS NOT COMPROMISED.**

To prevent the spread of fire, the dummy chimney should be provided with a fire resistant base so as to achieve the fire protection.

Any gaps between the base of the chimney and the separating wall should be filled with a non-combustible material in a similar manner to the fire stopping provided between the party wall and roof covering.

One way of achieving this is to adopt the detail shown in Figure 1. It shows the typical fire stopping provided between the wall and roof covering continuing under the dummy chimney. It is important that the method of fire protection provided under the dummy chimney links fully with the fire stopping provided between the wall and roof covering. The secondary weatherproofing provided by the roof underlay should be maintained by either continuing the underlay under or dressing it around the chimney.

FOR TECHNICAL AND DESIGN ADVICE CALL 0844 800 4576  
[www.nhbc.co.uk](http://www.nhbc.co.uk)



# BRICK-CLAD AND BRICK-EFFECT

## FASTSTACK™ CHIMNEY INSTALLATION GUIDES

### Easy and quick to installation

- ✓ Compact and easy to install
- ✓ Saving both room space and time on-site
- ✓ Full installation instructions and fixing pack included.



# BRICK-CLAD FASTSTACK™ MID RIDGE CHIMNEY

## 1 + 2 PREPARATION

The chimneys should be pointed on the ground prior to installation. The mortar used should be a 1:1/2:4 (cement/lime/sand) mix and must include a waterproofing admix, such as sika 1 or similar. The pointing must be bucket handle profile. Prepare the trusses with 2 layers of felt in the area where the chimney will be seated. The felt should exceed the dimensions of the fixing plate by 460mm on all sides.

If the remainder of the roof felt is to be fitted at a later stage, it must be fully lapped under the chimney felt to ensure a continuous run. Additional timber should be nailed horizontally, between the trusses where the chimney will be seated to allow fixing through the front and rear fixing plates, in addition to the side plates. All supplied fixings must be used.

### Flaunching

Flat top chimneys must be flaunching with a strong sand/cement mix. The flaunching should be a minimum of 25mm thick around

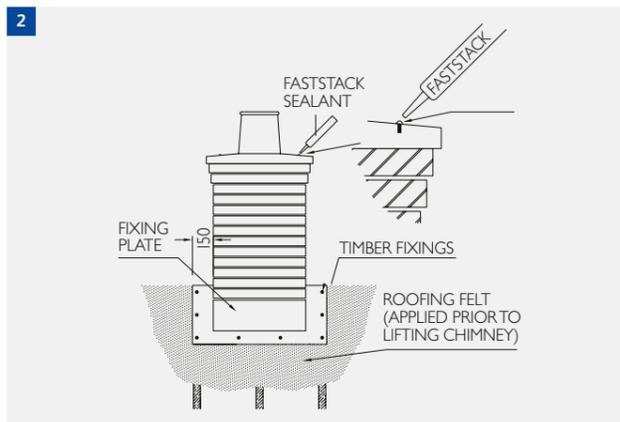
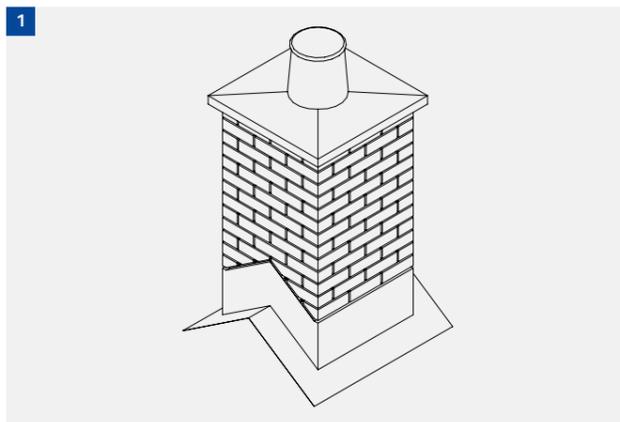
the perimeter of the chimney and should **NOT** be feathered away to nothing. This can be done prior to installation however the lifting sockets must remain visible to allow the insertion of the loops provided for lifting. Once in position on the roof the supplied plugs should be inserted into the eyes and fixed using the supplied sealant.

### Lifting

Cut the retaining straps between the chimney and pallet. Remove the plastic plugs from the lifting threads and screw in the lifting loops provided. Crane the chimney into position, remove the loops and reinsert the plastic plugs applying a liberal amount of sealant around the plug.

### Fixing

Once in position locate the centres of the trusses beneath the fixing plate and drill the fixing plate accordingly. Screw directly into the trusses below using all the stainless steel fixings and washer kits provided. Mild steel fixings cannot be used for this purpose.



# BRICK-CLAD FASTSTACK™ GABLE END CHIMNEY

## 1 + 2 PREPARATION

The gable wall brickwork should be constructed traditionally to the point where the width of the wall corresponds with the internal width of the proposed chimney (dimensions shown below). At this point the gable wall brickwork and blockwork should be constructed vertically to a dimension of 215mm.

Othello	Hamlet and Harcourt	Aragon
540mm	653mm	765mm
Silius	Hermia	Shylock
990mm	878mm	1328mm

The chimneys should be pointed on the ground prior to installation. The mortar used should be a 1:1/2:4 (cement/lime/sand) mix and must include a waterproofing admix, such as sika 1 or similar. The pointing must be a bucket handle profile.

Prepare the trusses with 2 layers of felt in the area where the chimney will be seated. The felt should exceed the dimensions of the fixing plate by 460mm on all sides. If the remainder of the roof felt is to be fitted at a later stage, it must be fully lapped under the chimney felt to ensure a continuous run. Additional timber should be nailed horizontally, between the trusses where the chimney will be seated to allow fixing through the front and rear fixing plates, in addition to the side plates. All supplied fixings must be used.

### Flaunching

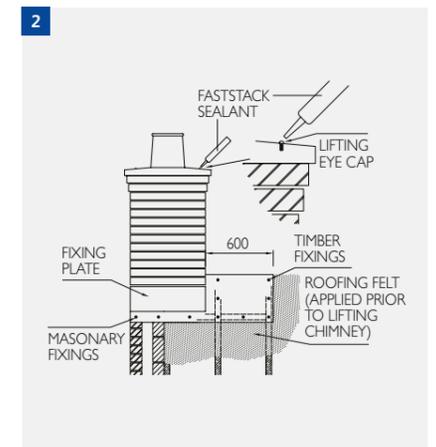
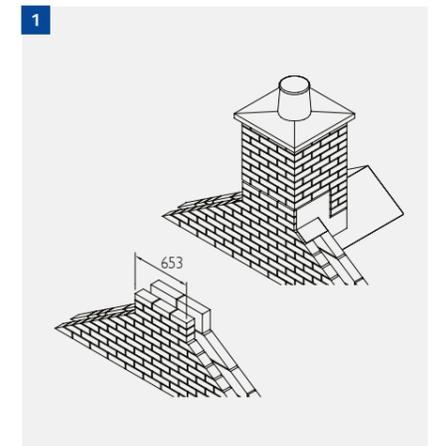
Flat top chimneys must be flaunching with a strong sand/cement mix. The flaunching should be a minimum of 25mm thick around the perimeter of the chimney and should **NOT** be feathered away to nothing. This can be done prior to installation however the lifting sockets must remain visible to allow the insertion of the loops provided for lifting. Once in position on the roof the supplied plugs should be inserted into the eyes and fixed using the supplied sealant.

### Lifting

Cut the retaining straps between the chimney and pallet. Remove the plastic plugs from the lifting threads and screw in the lifting loops provided. Crane the chimney into position, remove the loops and reinsert the plastic plugs applying a liberal amount of sealant around the plug.

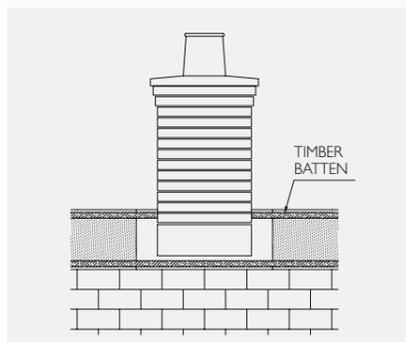
### Fixing

The face of the chimney brickwork should now be flush with the gable wall brickwork. Once in position locate the centres of the trusses beneath the fixing plate and drill the fixing plate accordingly. Screw directly into the trusses below using all the stainless steel fixings and washer kits provided. In addition to this the supplied masonry screw and plug sets should be used for fixing to the gable wall masonry. Mild steel fixings cannot be used for this purpose.



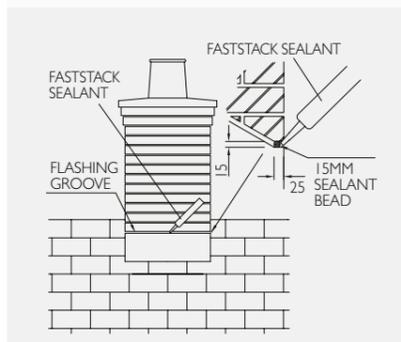
## 3 BATTEN AND TILE

Batten and tile over the fixing plate and up to the vertical sides of the chimney unit. Where the batten overlaps the fixing plate it must be drilled and screwed through. It may, in some instances, be necessary to reduce the thickness of the batten at this point to accommodate the fixing plate.



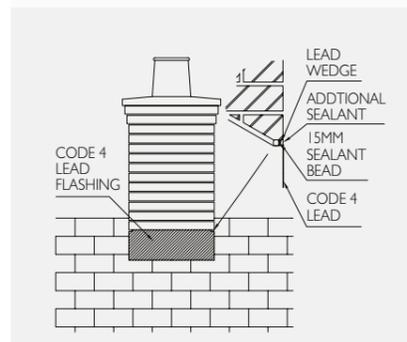
## 4 FLASHING

The polyurethane sealant provided should be applied into the flashing channel to a depth of 15mm (refer to data sheet for health and safety information). Sealant must be applied to the entire length of the flashing channel.



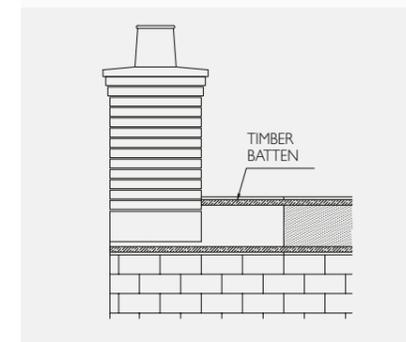
## 5 FLASHING (CONTINUED)

Code 4 lead must then be dressed into the full depth of the channel and wedged into position with lead wedges before the sealant has cured. Once the lead is in position the remainder of the channel must be filled with the sealant provided until flush with the face of the brick slips.



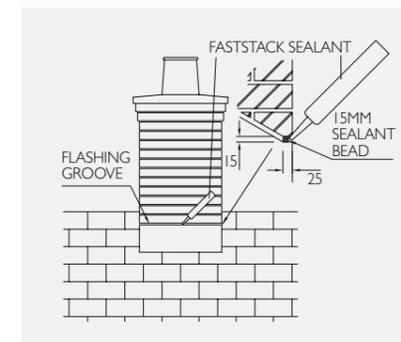
## 3 BATTEN AND TILE

Batten and tile over the fixing plate and up to the vertical sides of the chimney unit. Where the batten overlaps the fixing plate, it must be drilled and screwed through. It may, in some instances, be necessary to reduce the thickness of the batten at this point to accommodate the fixing plate.



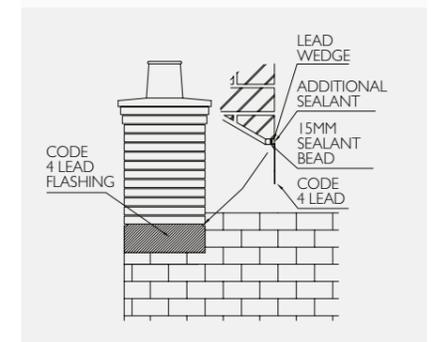
## 4 FLASHING

The polyurethane sealant provided should be applied into the flashing channel to a depth of 15mm (refer to data sheet for health and safety information). Sealant must be applied to the entire length of the flashing channel.



## 5 FLASHING (CONTINUED)

Code 4 lead must then be dressed into the full depth of the channel and wedged into position with lead wedges before the sealant has cured. Once the lead is in position the remainder of the channel must be filled with the sealant provided until flush with the face of the brick slips.



SATELLITE DISHES AND TELEVISION AERIALS MUST NOT BE FIXED TO THE FASTSTACK CHIMNEY

SATELLITE DISHES AND TELEVISION AERIALS MUST NOT BE FIXED TO THE FASTSTACK CHIMNEY

# BRICK-CLAD FASTSTACK™ MONO PITCH CHIMNEY

## 1 + 2 PREPARATION

The chimneys should be pointed on the ground prior to installation. The mortar used should be a 1:1/2:4 (cement/lime/sand) mix and must include a waterproofing admix, such as sika 1 or similar. The pointing must be to the full depth of the joints.

The chimneys must be located between two trusses and seated on a solid timber platform which must be constructed at the appropriate height within the roof space. This platform will support the weight of the chimney unit and must therefore be designed and constructed accordingly.

The trusses should be permanently fitted allowing sufficient space for the chimney to pass through during installation.

Prepare the trusses with two layers of felt in the area where the chimney will be seated. The felt should exceed the dimensions of the fixing plate by 460mm on all sides. Cut the felt to allow the chimney to pass through. If the remainder of the felt is to be fitted at a later stage it must be fully lapped under the chimney felt to ensure a continuous run.

Additional noggins should be nailed between supporting trusses to allow fixing through the front, rear and side of fixing plates.

### Lifting

Cut the retaining straps between the chimney and pallet. Remove the plastic plugs from the

lifting threads and screw in the lifting loops provided. Crane the chimney into position and lower onto the platform, remove the loops and reinsert the plastic plugs applying a liberal amount of sealant around the plug.

### Flaunching

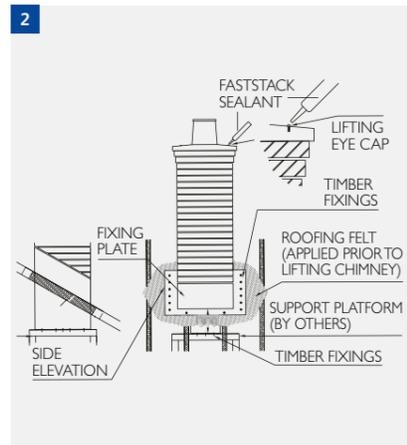
Flat top chimneys must be flaunching with a strong sand/cement mix. The flaunching should be a minimum of 25mm thick around the perimeter of the chimney and should **NOT** be feathered away to nothing. This can be done prior to installation however the lifting sockets must remain visible to allow the insertion of the loops provided for lifting.

Once in position on the roof the supplied plugs should be inserted into the eyes and fixed using the supplied sealant.

### Fixing

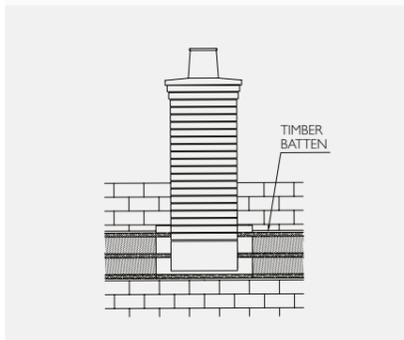
Once in position locate the centres of the trusses beneath the diagonal fixing plate and drill the fixing plate accordingly. Screw directly into the trusses below. Repeat the procedure at the base plate and securely fasten to the supporting platform using all the stainless steel fixings and washer kits provided.

Mild steel fixings cannot be used for this purpose. The support platform will be constructed on site by others. This platform will support the full weight of the chimney once installed and must therefore be designed and constructed accordingly. Please refer to your truss manufacturers/engineers.



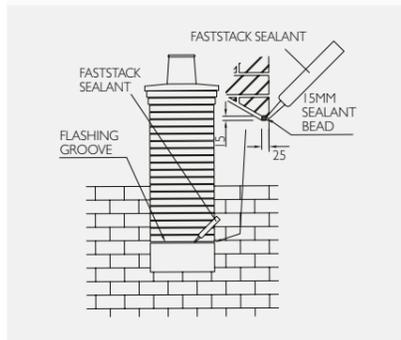
## 3 BATTEN AND TILE

Batten and tile over the fixing plate and up to the vertical sides of the chimney unit. Where the batten overlaps the fixing plate it must be drilled and screwed through. It may, in some instances, be necessary to reduce the thickness of the batten at this point to accommodate the fixing plate.



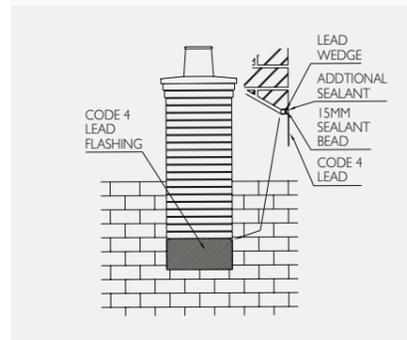
## 4 FLASHING

The polyurethane sealant provided should be applied into the flashing channel to a depth of 15mm (refer to data sheet for health and safety information). Sealant must be applied to the entire length of the flashing channel.



## 5 FLASHING (CONTINUED)

Code 4 lead must then be dressed into the full depth of the channel and wedged into position with lead wedges before the sealant has cured. Once the lead is in position the remainder of the channel must be filled with the sealant provided until flush with the face of the brick slips.



SATELLITE DISHES AND TELEVISION AERIALS MUST NOT BE FIXED TO THE FASTSTACK CHIMNEY

NOTE: GUARANTEE ON THIS PRODUCT WILL BE INVALIDATED IF INSTRUCTIONS ARE NOT ADHERED TO, THE ONLY APPROVED SEALANTS AND FIXINGS ARE THOSE SUPPLIED BY IBSTOCK KEVINGTON.

# BRICK-CLAD FASTSTACK™ PARAPET CHIMNEY

## 1 + 2 PREPARATION

The gable and parapet wall brickwork should be constructed traditionally to the point where the parapet wall width corresponds with the internal width of the proposed chimney (dimensions shown below). At this point the brick/blockwork should be constructed vertically to a dimension of 215mm or three courses without further cropping to form the transitional brickwork between chimney and parapet wall as shown below.

Othello	Hamlet and Harcourt	Aragon
540mm	653mm	765mm
Silius	Hermia	Shylock
990mm	878mm	1328mm

The chimneys should be pointed on the ground prior to installation. The mortar used should be a 1:1/2:4 (cement/lime/sand) mix and must include a waterproofing admix, such as sika 1 or similar. The pointing must be a bucket handle profile.

Prepare the trusses with 2 layers of felt in the area where the chimney will be seated. The felt should exceed the dimensions of the fixing plate by 460mm on all sides. If the remainder of the roof felt is to be fitted at a later stage, it must be fully lapped under the chimney felt to ensure a continuous run. Additional timber should be nailed, horizontally, between the trusses where the chimney will be seated to allow fixing through the front and rear fixing plates, in addition to the side plates. All supplied fixings must be used.

### Flaunching

Flat top chimneys must be flaunching with a strong sand/cement mix. The flaunching should be a minimum of 25mm thick around the perimeter of the chimney and should **NOT** be feathered away to nothing. This can be done prior to installation however the lifting sockets must remain visible to allow the insertion of the loops provided for lifting. Once in position on the roof the supplied plugs should be inserted into the eyes and fixed using the supplied sealant.

### Lifting

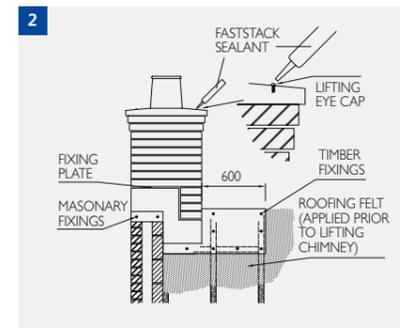
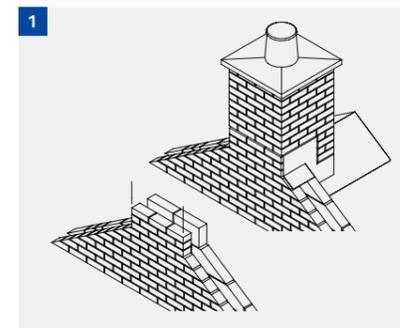
Cut the retaining straps between the chimney and pallet. Remove the plastic plugs from the lifting threads and screw in the lifting loops provided. Crane the chimney into position, remove the loops and reinsert plastic plugs applying a liberal amount of sealant around the plug.

SATELLITE DISHES AND TELEVISION AERIALS MUST NOT BE FIXED TO THE FASTSTACK CHIMNEY

NOTE: IF ANY ALTERNATIVES ARE USED THE GUARANTEE WILL BE INVALIDATED.

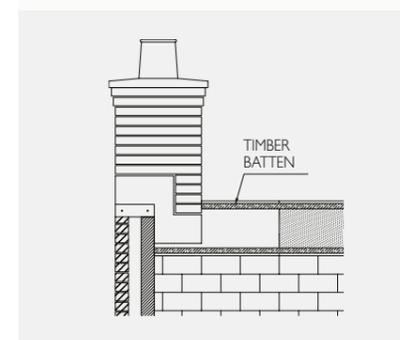
## Fixing

The face of the chimney brickwork should be flush with the gable/parapet wall brickwork. Once in position locate the centres of the trusses beneath the fixing plate and drill the fixing plate accordingly. Screw directly into the trusses below using all the stainless steel fixings and washer kits provided. In addition to this the supplied masonry screw and plug sets should be used for fixing to the gable/parapet wall masonry. Mild steel fixings cannot be used for this purpose.



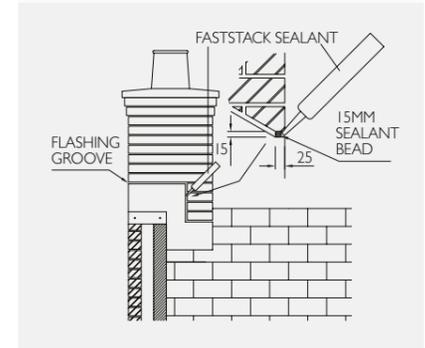
## 3 BATTEN AND TILE

Batten and tile over the fixing plate and up to the vertical sides of the chimney unit. Where the batten overlaps the fixing plate it must be drilled and screwed through. It may, in some instances, be necessary to reduce the thickness of the batten at this point to accommodate the fixing plate. Any necessary lead work to the parapet wall should be installed at this stage of the process.



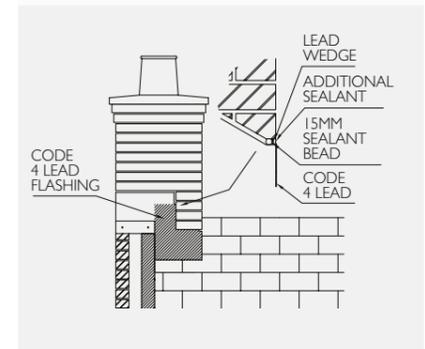
## 4 FLASHING

The polyurethane sealant provided should be applied into the flashing channel to a depth of 15mm (refer to data sheet for health and safety information). Sealant must be applied to the entire length of the flashing channel.



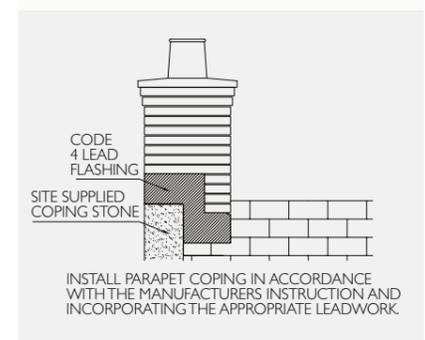
## 5 FLASHING (CONTINUED)

Code 4 lead must then be dressed into the full depth of the channel and wedged into position with lead wedges before the sealant has cured. Once the lead is in position the remainder of the channel must be filled with the sealant provided until flush with the face of the brick slips.



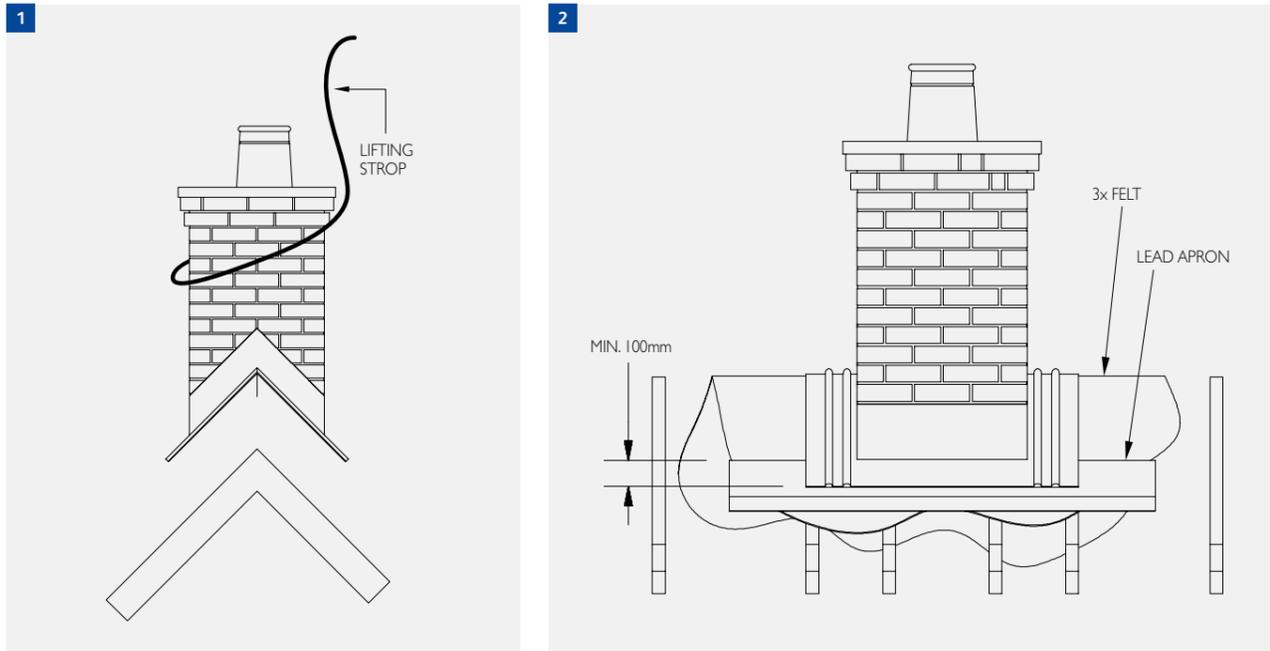
## 6

Install parapet coping in accordance with the manufacturers instruction and incorporating the appropriate lead work.



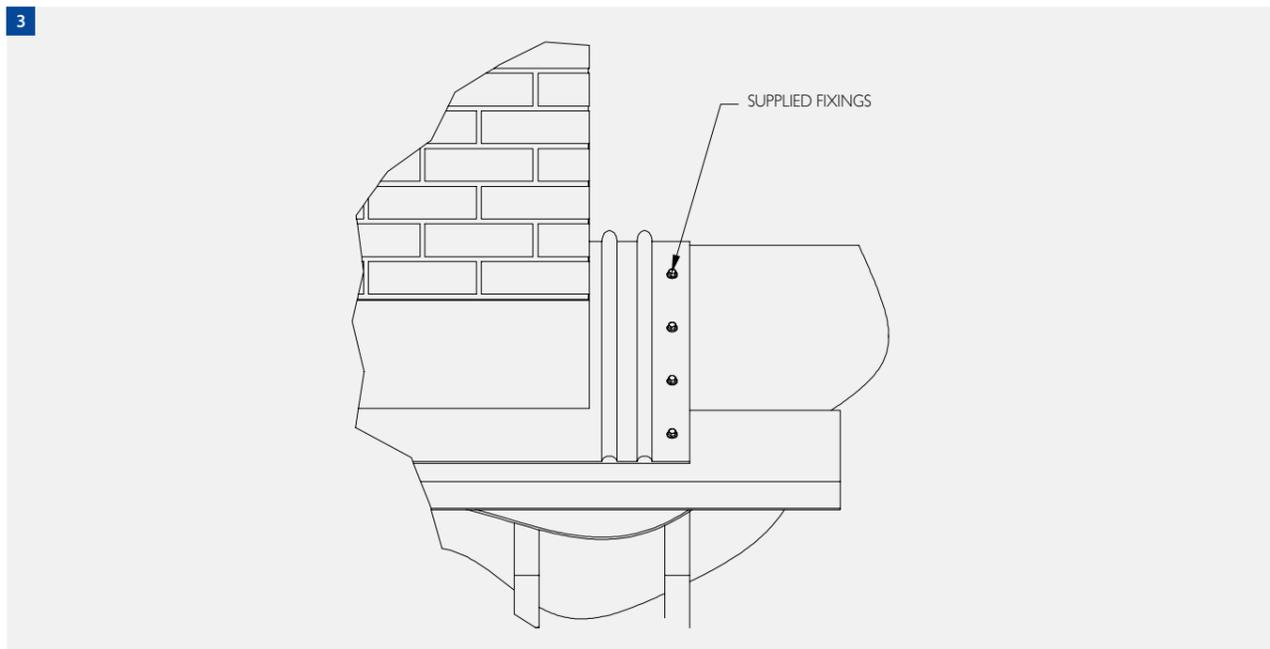
INSTALL PARAPET COPING IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTION AND INCORPORATING THE APPROPRIATE LEADWORK.

# BRICK-EFFECT FASTSTACK™ MID RIDGE CHIMNEY

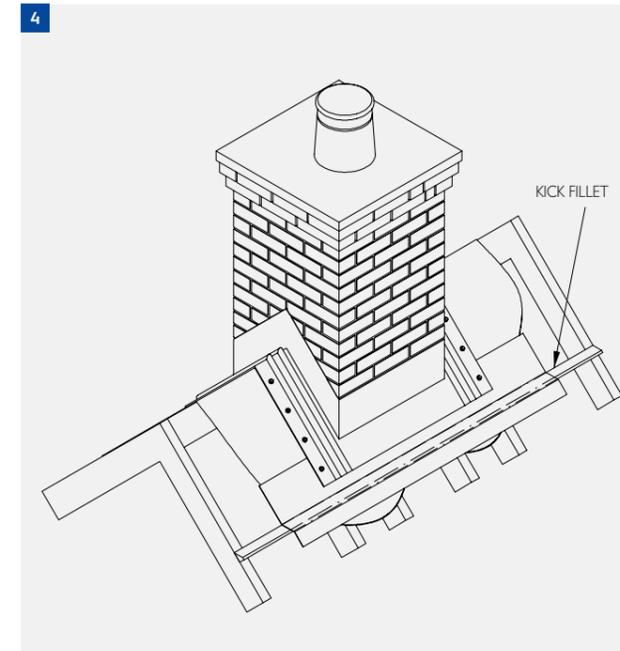


1 Lift chimney in to position on to the felted roof using a lifting strop. **DO NOT** use the capping as this may cause damage. Ensure three layers of roofing felt are installed directly under the chimney.

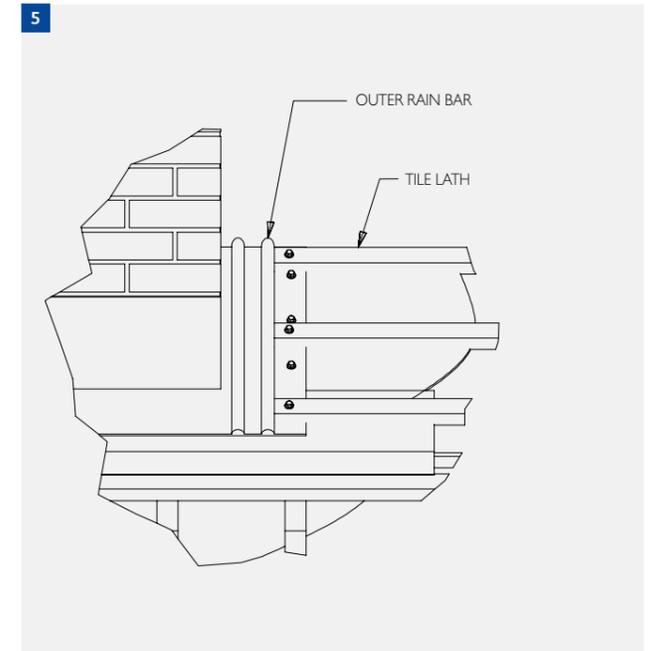
2 Prepare the lead aprons (if not included) and slide under the fixing base plate front and rear with a minimum 100mm overlap.



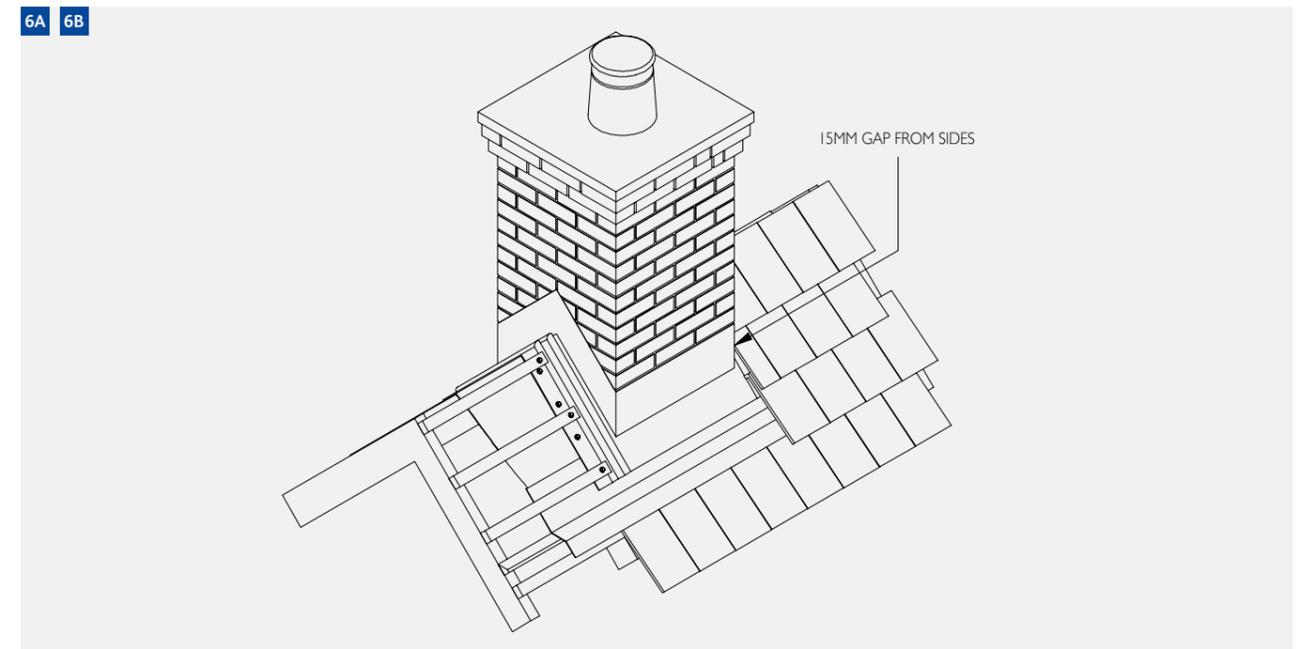
3 Screw the supplied fixings through the outer edges of the skirt in to trusses as shown. The lower fixings will also secure the leadwork in to position. All fixings supplied must be used. **DO NOT** use the front and rear of the skirt.



4 Lift the apron and secure a timber fillet to the trusses below the lower edge of the front and rear skirts to provide a kick for the lead aprons.



5 Batten the roof and run the batten/lath up to the outer rain bar. The batten should not be nailed through the skirt but screwed with stainless steel, self tapping screws.



6A. When the roof is fully battened and ready for tiling, run the tiles in to the side of the chimney leaving a 15mm gap between the tile and the chimney core to allow rain flow. 6B. Flash the chimney at the front and rear using the lead aprons in accordance with BS6915 codes of practice.

SATELLITE DISHES AND TELEVISION AERIALS MUST NOT BE FIXED TO THE FASTSTACK CHIMNEY

SATELLITE DISHES AND TELEVISION AERIALS MUST NOT BE FIXED TO THE FASTSTACK CHIMNEY

NOTE: GUARANTEE ON THIS PRODUCT WILL BE INVALIDATED IF INSTRUCTIONS ARE NOT ADHERED TO, THE ONLY APPROVED SEALANTS AND FIXINGS ARE THOSE SUPPLIED BY IBSTOCK KEVINGTON.

NOTE: IF ANY ALTERNATIVES ARE USED THE GUARANTEE WILL BE INVALIDATED.

# CHIMNEY CAD DRAWINGS

Chimney Name	Dimension A	Dimension B	Mid Ridge	Gable End	Roof Pitch	No of Pots
Orchello	552mm	440mm				1 max
Aragon	777mm	552mm				2 max
Harcourt	665mm	665mm				1 max
Herrin	890mm	777mm				4 max
Handlet	665mm	890mm				2 max
Silva	1002mm	777mm				4 max
Shylack	1340mm	665mm				3 max

**Chimney Function**

Non Venting (Cosmetic)  Please Tick

Class 1 Venting (Wood/Coal Burner)  Please Tick — Eco ICID System

Class 2 Venting (Gas)  Please Tick

**Cladding Material**

Brick Clad  Please Tick Metts:  Impertal  Brick Type \_\_\_\_\_

Stone Clad  Please Tick

On Site Render  Please Tick Natural  Reconstituted  Walling  (Note: only 65mm & 140mm course heights)

**Comments / Instructions**

CHIMNEY SELECTION FORM  
RED BRICK AND GABLE END CHIMNEYS ONLY  
SWBS CHIMNEY SELECTION sheet 1  
14/02/20 SWBS - CHIM - 01

Chimney Name	Dimension A	Dimension B	Roof Pitch	No of Pots
Orchello	552mm	440mm		1 max
Aragon	777mm	552mm		2 max
Harcourt	665mm	665mm		1 max
Herrin	890mm	777mm		4 max
Handlet	665mm	890mm		2 max
Silva	1002mm	777mm		4 max
Shylack	1340mm	665mm		3 max

**Chimney Function**

Non Venting (Cosmetic)  Please Tick

Class 1 Venting (Wood/Coal Burner)  Please Tick — Eco ICID System

Class 2 Venting (Gas)  Please Tick

**Cladding Material**

Brick Clad  Please Tick Metts:  Impertal  Brick Type \_\_\_\_\_

Stone Clad  Please Tick

On Site Render  Please Tick Natural  Reconstituted  Walling  (Note: only 65mm & 140mm course heights)

**Comments / Instructions**

CHIMNEY SELECTION FORM  
STONE CHIMNEYS ONLY  
SWBS CHIMNEY SELECTION sheet 3  
14/02/20 SWBS - CHIM - 03

Chimney Name	Dimension A	Dimension B	Roof Pitch	No of Pots
Orchello	552mm	440mm		1 max
Aragon	777mm	552mm		2 max
Harcourt	665mm	665mm		1 max
Herrin	890mm	777mm		4 max
Handlet	665mm	890mm		2 max
Silva	1002mm	777mm		4 max
Shylack	1340mm	665mm		3 max

**Chimney Function**

Non Venting (Cosmetic)  Please Tick

Class 1 Venting (Wood/Coal Burner)  Please Tick — Eco ICID System

Class 2 Venting (Gas)  Please Tick

**Cladding Material**

Brick Clad  Please Tick Metts:  Impertal  Brick Type \_\_\_\_\_

Stone Clad  Please Tick

On Site Render  Please Tick Natural  Reconstituted  Walling  (Note: only 65mm & 140mm course heights)

**Comments / Instructions**

CHIMNEY SELECTION FORM  
PARAPET CHIMNEYS ONLY  
SWBS CHIMNEY SELECTION sheet 2  
14/02/20 SWBS - CHIM - 02



## Ibstock Brick Ltd

Leicester Road  
Ibstock  
Leicestershire LE67 6HS  
Tel: 01530 261999 Fax: 01530 257457  
e-mail: enquiries@ibstock.co.uk  
website: www.ibstock.com



Agrément Certificate  
**13/5027**  
Product Sheet 1

### IBSTOCK KEVINGTON CHIMNEYS

### IBSTOCK KEVINGTON FASTSTACK CHIMNEY

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to the Ibstock Kevington Faststack<sup>(2)</sup> Chimney, a brick-clad, glass-reinforced polyester (GRP) chimney with plinth, flaunching, apron and pot, for use as a decorative false chimney on tiled or slated pitched roofs in new and existing constructions.

- (1) Hereinafter referred to as 'Certificate'.  
(2) Faststack is a registered trademark.

#### CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

#### KEY FACTORS ASSESSED

**Loading** — the product has acceptable resistance to the effects of wind suction up to 1.3 kPa acting on the roof and in a suitably designed structure will not affect the stability of the building (see section 6).

**Behaviour in relation to fire** — the product will not affect the overall fire classification of the roof (see section 7).

**Weather-tightness** — the product, when correctly installed, will not affect the weather-tightness of the roof (see section 8).

**Durability** — the product will have a service life in excess of 25 years (see section 10).



The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Simon Wroe  
Head of Approvals — Materials

Claire Curtis-Thomas  
Chief Executive

Date of First issue: 8 August 2013

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct

British Board of Agrément  
Bucknalls Lane  
Watford  
Herts WD25 9BA

tel: 01923 665300  
fax: 01923 665301  
e-mail: [mail@bba.star.co.uk](mailto:mail@bba.star.co.uk)  
website: [www.bbacerts.co.uk](http://www.bbacerts.co.uk)

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## Regulations

In the opinion of the BBA, the Ibstock Kevington Faststack Chimney, if installed, used and maintained in accordance with this Certificate, will meet or contribute to meeting the relevant requirements of the following Building Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):

### The Building Regulations 2010 (England and Wales) (as amended)

Requirement: A1	Loading
Comment:	The incorporation of the product into a suitably designed roof structure will not affect the structure's stability. See sections 6.1 to 6.4 of this Certificate.
Requirement: B4(2)	External fire spread
Comment:	The incorporation of the product into a roof classified as unrestricted will not affect the roof's classification under this Requirement. See section 7 of this Certificate.
Requirement: C2(b)	Resistance to moisture
Comment:	When detailed correctly, the product will enable a roof to meet this Requirement. See section 8 of this Certificate.
Regulation: 7	Materials and workmanship
Comment:	The product is acceptable. See section 10.1 and the <i>Installation</i> part of this Certificate.

### The Building (Scotland) Regulations 2004 (as amended)

Regulation: 8(1)(2)	Fitness and durability of materials and workmanship
Comment:	The use of the product satisfies the requirements of this Regulation. See sections 9 and 10.1 and the <i>Installation</i> part of this Certificate.
Regulation: 9	Building standards applicable to construction
Standard: 1.1(a)	Structure
Comment:	The incorporation of the product into a suitably designed roof structure will not affect the structure's stability under clause 1.1.1 <sup>(1)(2)</sup> . See sections 6.1 to 6.4 of this Certificate.
Standard: 2.8	Spread from neighbouring buildings
Comment:	The incorporation of the product into a roof classified as unrestricted will not affect the roof's classification under this Standard, with reference to clause 2.8.1 <sup>(1)(2)</sup> . See section 7 of this Certificate.
Standard: 3.10	Precipitation
Comment:	When detailed correctly, the product will enable a roof to meet the requirements of this Standard, with reference to clauses 3.10.1 <sup>(1)(2)</sup> and 3.10.8 <sup>(1)(2)</sup> . See section 8 of this Certificate.
Standard: 7.1(a)	Statement of sustainability
Comment:	The product can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.
Regulation: 12	Building standards applicable to conversions
Comment:	Comments made in relation to the product under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup> . (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).

### The Building Regulations (Northern Ireland) 2012

Regulation: 23	Fitness of materials and workmanship
Comment:	The product is acceptable. See sections 9 and 10.1 and the <i>Installation</i> part of this Certificate.
Regulation: 28(b)	Resistance to moisture and weather
Comment:	When detailed correctly the product will enable a roof to meet the requirements of this Regulation. See section 8 of this Certificate.
Regulation: 30	Stability
Comment:	The incorporation of the product into a suitably designed roof structure will not affect the structure's stability. See sections 6.1 to 6.4 of this Certificate.
Regulation: 36(b)	External fire spread
Comment:	The incorporation of the product into a roof classified as unrestricted will not affect the roof's classification under the requirements of this Regulation. See section 7 of this Certificate.

### Construction (Design and Management) Regulations 2007

### Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See section: 3 *Delivery and site handling* (3.3) and 11 *General* (11.3) of this Certificate.

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## Additional Information

### NHBC Standards 2013

NHBC accepts the use of the Istock Kevington Faststack Chimney, provided it is installed, used and maintained in accordance with this Certificate, in relation to Part 1 *General information*, Chapter 1.1 *Introduction to the Standards and Technical Requirements*, Technical Requirement R3.

## Technical Specification

### 1 Description

1.1 The Istock Kevington Faststack Chimney consists of a brick-clad GRP chimney stack, including a base plinth, flaunchings, apron, and terracotta chimney pot, for use on roof ridges, slopes and at gable ends. The chimney is available in one or two-pot versions, clad in bricks matched to the brickwork of the building.

1.2 Ancillary items within the scope of the Certificate include:

- stainless steel wood screws and washers — 48 mm penetration length, 4 mm diameter and 10 mm head diameter screws and 29 mm diameter stainless steel washers for fixing to wood. The fixings are supplied with the chimney unit
- stainless steel masonry screws, washers and plugs — 60 mm penetration length, 6 mm diameter and 12 mm head diameter screws, 29 mm diameter stainless steel washers and 12 mm diameter and 119 mm long plastic plugs for fixing to gable-end masonry. The fixings are supplied with the chimney unit
- Faststack polyurethane sealant — used to seal lifting-eye seatings and flashing channel.

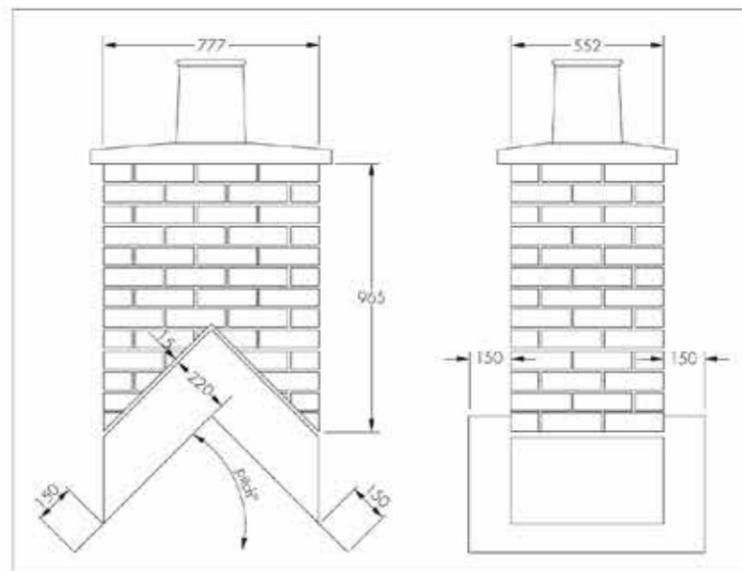
1.3 Other ancillary items associated with installation but outside the scope of the Certificate include:

- lead apron flashing
- roof tile underlay
- roof tiles
- C16 timber trusses and battens.

1.4 The product is available in the following styles (see Figure 1):

- Faststack Othello — 552 mm x 440 mm with single pot
- Faststack Aragon — 777 mm x 552 mm with single pot
- Faststack Hamlet — 665 mm x 890 mm with two pots
- Faststack Hermia — 890 mm x 777 mm with single pot
- Faststack Silius — 1002 mm x 777 mm with single pot
- Faststack Shylock — 1340 mm x 665 mm with two pots
- Faststack Marcourt — 665 mm x 665 mm with single pot.

Figure 1 Faststack chimneys (Faststack Aragon) (all dimensions in mm)



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1.5 Chimneys may be rendered but this aspect is outside the scope of this Certificate.

### 2 Manufacture

2.1 The GRP chimney core, including flaunchings and apron, is formed by hand-laying fibres and resin in a wood and glassfibre mould. Once set, brick slips are measured, cut and glued to the core. Pots are seated over a projecting stub on the cap and fixed with adhesive.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

### 3 Delivery and site handling

3.1 Chimneys are delivered wrapped in plastic film and secured to pallets with timber supports, strapping and screws.

3.2 Each chimney carries a label bearing the product description, customer's name, job number, drawing number and the BBA logo incorporating the number of this Certificate.

3.3 After pointing on site, chimneys are placed onto the roof by crane using the lifting eyes provided in the chimney capping. Before lifting, it must be ensured that the lifting eyes are securely in place.

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on the Istock Kevington Faststack Chimney.

### Design Considerations

#### 4 General

4.1 The Istock Kevington Faststack Chimney is satisfactory for use as a decorative false chimney on new-build and existing pitched, slated or tiled roofs with a minimum pitch of 30°, installed either at the ridge or on the slope of the roof.

4.2 The use of the product with an active flue has not been assessed and is outside the scope of this Certificate.

4.3 Roof structures incorporating the product must be designed and constructed in accordance with the relevant clauses of BS 5534 : 2003 and BS EN 1995-1-1 : 2004 and its UK National Annex.

4.4 Roof fixtures such as satellite dishes and television aerials must not be fastened to the product.

#### 5 Practicability of installation

Installation is designed to be carried out by competent carpenters, roofers and slaters/tilers experienced with this type of product.

#### 6 Loading

6.1 Roof structures on which the product is to be installed must be suitably designed to allow the safe transfer of dead and imposed loads to the ground.

6.2 Dead and imposed loads should be calculated in accordance with BS EN 1991-1-1 : 2002, BS EN 1991-1-3 : 2003 and their UK National Annexes.

6.3 When installed in accordance with the requirements of this Certificate the product can withstand dynamic wind pressures not exceeding 1.3 kPa.

6.4 The bond between the GRP chimney core and the brick slips is of adequate strength to withstand the wind loading described in section 6.3.

6.5 The wind uplift forces acting on the chimney are calculated in accordance with BS EN 1991-1-4 : 2005 and its UK National Annex.

Page 4 of 8

6.6 The required fixing holes are drilled on site. The correct type (see section 1.2) and number of fixings must be used in each unit. In all styles except the Shylock, 16 fixings are required, and in the Shylock, 24. Fixings must pass through the GRP into the roof structure (see section 12.9).

## 7 Behaviour in relation to fire

The incorporation of the product into a roof classified as unrestricted under the national Building Regulations will not affect the classification of the roof.

## 8 Weathertightness

When installed in accordance with the Certificate holder's instructions and correctly detailed, the product will be weathertight and will not affect the compliance of a roof with the requirements of the national Building Regulations:

England and Wales — Approved Document C, Requirement C2(b), Section 6

Scotland — Mandatory Standard 3.10, clauses 3.10.1 and 3.10.8

Northern Ireland — Regulation 28(b).

## 9 Maintenance

The product and surrounding roof area must be regularly inspected and maintained to ensure continued performance. Particular attention should be given to the flashing details to ensure that weathertightness is maintained.

## 10 Durability

10.1 Accelerated weathering tests confirm that satisfactory retention of physical properties is achieved. Available evidence indicates that the product will have a service life in excess of 25 years.

10.2 As the product is clad with brick slips matched to the brickwork of the building, the colourfastness of the two will be similar.

## Installation

### 11 General

11.1 Installation of the Istock Kevington Faststack Chimney must be in accordance with the Certificate holder's instructions.

11.2 Slates and tiles should be installed in accordance with the relevant clauses of BS 5534 : 2003 and BS 8000-6 : 1990. Where applicable, flashing must be installed in accordance with BS 6915 : 2001.

11.3 When installing lead flashing, the conventional precautions for handling lead, as defined in the *Control of Lead at Work Regulations 2002*, the *Control of Lead at Work Regulations (Northern Ireland) 2003* and the HSE Approved *Code of Practice and Guidance Control of lead at work*, must be observed.

## 12 Procedure

12.1 The installation process is illustrated in Figure 2.

Figure 2 Installation Process



12.2 Prior to lifting into position on the roof, the joints between brick slips are pointed using a cement/lime/sand mix (1:1/2:4 1/2) incorporating a waterproofing admixture. The pointing must fill the joints (typically from 20 mm to 25 mm) and be finished to a bucket handle joint profile. Advice on suitable admixtures is available from the Certificate holder.

12.3 For ridge-mounted units, the roof is prepared by installing horizontal timber<sup>(1)</sup> noggings, 38 mm wide and 50 mm deep, between the rafters and flush with the top of the rafters using 8 mm diameter by 75 mm long screws where the chimney will be seated.

(1) A minimum grade of C16 timber should be used.

12.4 A roof tile underlay is installed on the roof over the area where the chimney will be seated, allowing an extra 460 mm on all sides of the fixing plate.

12.5 Mono-pitch chimneys are located between two trusses and seated on a solid timber platform, designed and constructed to support the weight of the chimney and located at the appropriate height within the roof space. Trusses should be permanently fitted allowing sufficient space for the chimney to pass through during installation. Prior to lifting the chimney into place, the trusses are dressed with roof tile underlay allowing an extra 460 mm on all sides of the fixing plate. Additional horizontal timbers must be added between the top chords of the supporting trusses to allow fixings through all sides of the apron.

12.6 For gable-end chimneys, the brickwork should be constructed traditionally to the level where the width of the wall corresponds to the internal width of the proposed chimney. At this point, the gable wall brickwork and blockwork should be constructed vertically to a dimension of 215 mm.

12.7 Lifting loops provided with the chimney are screwed into the lifting eyes at the corners of the capping, and the chimney is lifted by crane and placed over the area of roof with the roof tile underlay and rafters.

12.8 The lifting eyes are removed and the holes filled with the plastic plugs. Faststack polyurethane sealant is applied around the plugs to ensure a watertight seal.

12.9 For ridge-mounted units, the chimney is secured to the roof structure by fastening through the site-drilled holes in the apron into the roof structure at 150 mm centres<sup>(1)</sup> using the fixings described in section 1.2. A total of 16 fixings are used per chimney unit, but the Shylock type requires 24 fixings. For mono-pitch chimneys, two of the fixings are placed along both the rear and front of the base plate. For gable-end chimneys, additional masonry screw and plug kits are provided for fixing to the gable-wall masonry.

(1) The minimum length of penetration must be 32 mm.

12.10 Tiling battens are installed over the roof area and over the chimney's apron. At the overlap, they must be drilled and screwed to the roof structure.

12.11 Slates/tiles are dressed to the sides of the chimney.

12.12 A support fillet is installed at the base of the GRP plinth to ensure that the lead flashing is fully supported and on an uninterrupted downward fall. The lead flashing is dressed in accordance with traditional practice over the row of slates/tiles immediately below the chimney.

12.13 Polyurethane sealant is applied into the flashing channel to a depth of 15 mm. The lead must be dressed to the full depth of the channel and wedged into position before the sealant has cured. Once the lead is in position, the remainder of the channel must be filled with the sealant until flush with the face of the slips.

12.14 On existing constructed roofs, installation of the chimney follows the same process as sections 12.1 to

12.13 following the removal of existing slates/tiles and tiling battens in the area where the chimney will be seated. Following installation of the roof tile underlay and fixing of the chimney, tiling battens are installed over the roof area and chimney's apron. At the overlap, they must be drilled and screwed to the roof structure. The slates/tiles previously removed or replacement slates/tiles to match the roof are laid up to the sides of the chimney. Lead flashing is installed and polyurethane applied into the flashing channel as described in section 12.12 and 12.13. The brick cladding used for the chimney should be agreed for existing construction.

### 13 Repair

In the event of major damage occurring, the chimney unit must be replaced.

## Technical Investigations

### 14 Tests

14.1 Tests were carried out on the Ibstock Kevington Faststack Chimney and the results assessed to determine:

- dimensions
- cross-breaking strength of GRP capping:
  - as made
  - after UV ageing
  - after heat ageing
  - after two-hour water boil
- pull-through strength of screw fixing
- tensile bond strength of brick slips.

14.2 Independent test reports were assessed to determine:

- tensile bond strength of brick slips:
  - as made
  - after freeze/thaw
  - after thermal shock
- wind loading on the chimney
- pull-out strength of lifting eyes
- soak/flood testing of chimney
- pull-off strength of fixed chimney
- pull-off strength of capping.

### 15 Investigations

15.1 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the composition of the materials used.

15.2 Calculations on wind loading of the chimneys were carried out.

15.3 Site visits were conducted to evaluate the ease of installation.

## Bibliography

BS 5534 : 2003 *Code of practice for slating and tiling (including shingles)*

BS 6915 : 2001 *Design and construction of fully supported lead sheet roof and wall coverings — Code of practice*

BS 80006 : 1990 *Workmanship on building sites — Code of practice for slating and tiling of roofs and claddings*

BS EN 1991-1-1 : 2002 *Eurocode 1 — Actions on structures — General actions — Densities, self-weight, imposed loads for buildings*

NA to BS EN 1991-1-1 : 2002 *UK National Annex to Eurocode 1 — Actions on structures — General actions — Densities, self-weight, imposed loads for buildings*

BS EN 1991-1-3 : 2003 *Eurocode 1 — Actions on structures — General actions — Snow loads*

NA to BS EN 1991-1-3 : 2003 *UK National Annex to Eurocode 1 — Actions on structures — General actions — Snow loads*

BS EN 1991-1-4 : 2005 *Eurocode 1 — Actions on structures — General actions — Wind actions*

NA to BS EN 1991-1-4 : 2005 *UK National Annex to Eurocode 1 — Actions on structures — General actions — Wind actions*

BS EN 1995-1-1 : 2004 *Eurocode 5 — Design of timber structures — General — Common rules and rules for buildings*

NA to BS EN 1995-1-1 : 2004 *UK National Annex to Eurocode 5 — Design of timber structures — General — Common rules and rules for buildings*

## Conditions of Certification

### 16 Conditions

16.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page — no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English law.

16.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

16.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

16.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

16.5 In issuing this Certificate, the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

16.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

British Board of Agrément  
Bucknalls Lane  
Watford  
Herts WD25 9BA

tel: 01923 665300  
fax: 01923 665301  
e-mail: mail@bba.star.co.uk  
website: www.bbacerts.co.uk

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**HEAD OFFICE**

Ibstock Plc, Leicester Road, Ibstock, Leicestershire, LE67 6HS

T: 0844 800 4575

E: [enquiries@ibstock.co.uk](mailto:enquiries@ibstock.co.uk)

[www.ibstockbrick.co.uk](http://www.ibstockbrick.co.uk)



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