

DESIGN & SPECIFICATION CONSIDERATIONS

BRICK SPECIALS - CUT & BOND AND FILL & FACE METHODS

Modern epoxy resin technology coupled with state of the art cutting equipment allows Ibstock Kevington to create special shapes and architectural features whilst maintaining strength and durability. Epoxy bonded bricks are suitable for internal and external walls where angled special bricks would normally be used.

These can be manufactured quickly and efficiently using the very latest techniques, often eliminating the extended delivery periods associated with manufactured specials. Ibstock Kevington offers a wide range of British Standard, non-standard or bespoke special shapes by manufacturing, cut and bonding or re-facing or re-texturing bricks.

CUT & BONDED ANGLES

Standard facing bricks are cut to the appropriate angle using industrial brick cutters. After drying the cut bricks are bonded along the cut surface using Chemfix Metolux Metofix epoxy - BBA Agrément Certificate 12/4893 or Structural Adhesives epoxy bonding materials. Pigments can be added and kiln fired sand may also be pressed into the adhesive to mask the joint where appropriate. The result is a strong and durable product suitable for housing or bespoke architectural projects.



Standard bricks cut and re-bonded together to form special shapes.

FILL & FACE SPECIALS

Textural or smooth finishes can be created from standard perforated or stock facing bricks.



Heavily textured BD.1.3 created from a standard perforated brick using the fill & face method. Texture created using epoxy.



Angled header cut from a standard stock brick, faced with epoxy and sand on header and face.

PERFORATED FACING BRICK

The perforations are filled with an expanding grout or a cement based filler. This is allowed to cure. The face is then dressed with an epoxy coating (Chemfix/Metolux Metofix BBA Agrément Certificate 12/4893) colour co-ordinated with the brick face colour; textures where relevant are formed at this stage. The surface is then treated with a layer of sand coloured to match the brick face. The sand can either be the actual fired sand used to create the product or a sand with a suitable non organic colour bound to it. The sand adheres to the epoxy and is fixed permanently to the product. The product is allowed to cure.

STOCK BRICK

Where possible the flat un-frogged bed is utilised for BD.1.3, the bed is dressed with epoxy and sanded. Many special shapes can be easily formed using stock bricks.

DURABILITY

Ibstock standard bricks used to form cut and bonded or refaced specials carry the normal durability warranty when used in accordance with EN 1996 and PD 6697.

Laboratory testing to prEN772-22: Determination of freeze-thaw resistance of masonry units, result in F2 (frost resistant) bricks being unaffected by the treatment and the epoxy resin remaining undamaged for the full 100 cycles. BBA certification classes the epoxy adhesive bond as durable with a 'service life commensurate with that of the materials from which they were manufactured'.

COLOUR

Kiln fired sand is bound with the epoxy adhesive therefore the colour will not change. Some fading of dark pigmented epoxy adhesives may occur after many years but by binding sand with the mix the change is indeterminable.

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