



Bat Access and Bat Roost Bricks

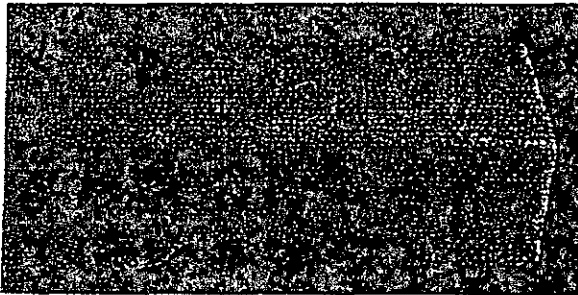
Approved by the Bat Conservation Trust

Over recent years Marshall's Clay Products has become almost as well known for the success of its award winning environmental work as it is for the quality of its brick products. Our land restoration and nature conservation schemes, first developed by Yorkshire Brick Company, have become an integral part of our activities over the years and have been recognised as some of the most successful of their kind anywhere.

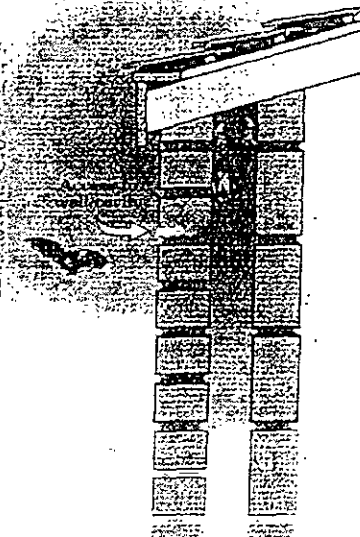
As part of this ongoing philosophy, Marshall's Clay Products have been producing a special Bat Access Brick, specially designed to help the country's badly depleted bat population by providing access to wall cavities or roof spaces where most bat colonies tend to be. (see diagram)

In recent years bats have been declining at an alarming rate, estimates suggest as much as 60% loss of habitat being a key factor in this decline. Nearly all colonies tend to be on the outside of houses, in wall cavities, under slates, flashing or tiles, etc.

Contrary to popular opinion bats do not make nests and do absolutely no damage to buildings or roof timbers, indeed many people encourage bat colonies in their area because of the large number of insect pests, woodworm, etc. which they eat. Most colonies will use a house for only a few weeks in summer before dispersing by the autumn.



Marshall's Bat Access Brick, which is now also available in stone

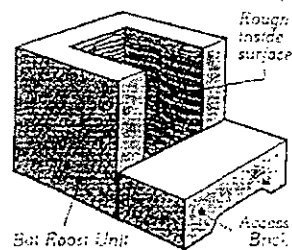


A Bat Brick should ideally be placed as high as possible, at the gable end or close to the soffit

Bat Roost Unit

A recent survey of bridges in Yorkshire found that 25% were being used by bats. Other reports showing similar findings suggest that large number of tunnels and bridges are occupied by bats. As bats are protected under the 1981 Wildlife and Countryside Act, engineers should attempt to preserve the bat habitat while carrying out essential maintenance to these structures. If bats are known to use the structure, the Country Agency for Nature Conservation should be consulted.

Following a meeting with The Bat Conservation Trust and British Waterways Technical Services Department, Marshall's Clay Products have developed an elegant solution in the form of their Bat Roost Unit. Used in conjunction with the Bat Access Brick, the unit provides a rough surfaced cavity of 110 X 150 X 215 mm. The module can be used in repairs to bridge arches and abutments as well as in many new construction projects.



Bat Roost Unit

Marshall's

CLAY PRODUCTS
Quarry Lane, Woodley Park, Woodcote,
Doncaster, West Yorkshire WF2 1JU
Tel (01152) 209555 Fax (01152) 209555



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Advice

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Nestboxes for the roof

19 May 2010

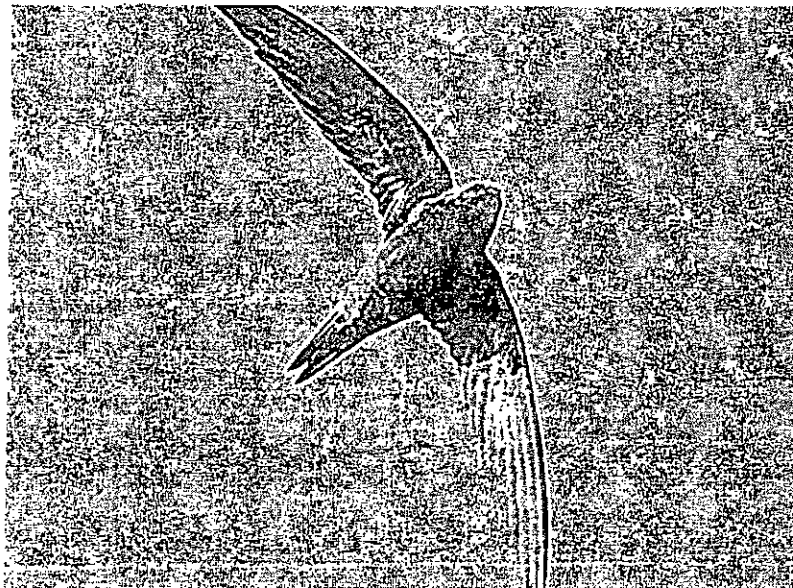


Image: Mark Thomas

If you're in the process of purchasing or building a new house or extension, ask either the developer or builder to fit internal nestboxes for swifts, house sparrows or starlings into the design of the building.

The box, and new entrance hole, should be located at the same place as any existing nests and access should be a slot or hole, usually where the soffit meets the wall. It's worth remembering that places for new starling nests are best located away from windows, doors and bedrooms as they can be a little noisy and messy.

Making an entrance

In 2001, new breather membranes were introduced to replace the old bitumen-based roofing felt. This means that no 25mm gap needs to be left under the eaves in new roofs, making it necessary to make small holes in the soffit to allow birds access to their nests. The holes should be positioned as close to the wall as possible.

In open soffit construction, birds usually enter the roof by the eaves at the junction of the soffit and fascia. Nests are usually just inside the roof, confined to the closed cavity or solid brickwork ledge.

Ensure that the hole dimensions are suited to the species you would like to attract. The minimum diameter of the entrance should be 32 mm for house sparrows and 45 mm for starlings. Swifts require a 'letterbox' entrance of a minimum of 65 mm x 25-35 mm. Visit [Swift Conservation's website](#) using the link on the right for more information about attracting swifts to nest in your roof.

If you have an older property, particularly with a pantile roof, birds may enter the roof under ill-fitting tiles and will nest in the cavity sometimes created between tiles. Where this is not feasible, nestboxes are an alternative.

Internal boxes

As an alternative to angled boxes, an angled piece of plywood in between the joists resting on the ceiling plasterboard prevents birds from getting further into the roof void. The insulation quilt ends at the plywood partition, thus preventing obstruction of the eaves for ventilation while still allowing access for birds. If wire mesh is fitted between the joists and the partition, the birds cannot get any further into the roof space.

It is also possible to provide concrete nest boxes to lay on the brick wall in the boxed eaves. If nest boxes are used, it is advisable to place them away from windows. Visit the [Swift Conservation website](#) for more details about these boxes.

Birds dislike nesting on insulation quilt, particularly the glass fibre types, and show a preference for nesting on un-insulated areas.

External boxes

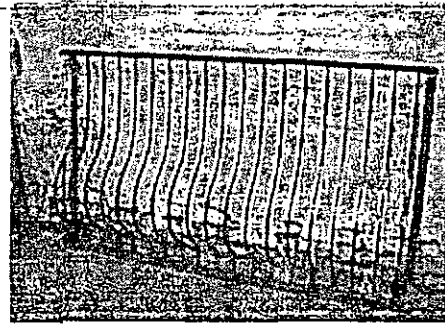
If you are unable to retain or create internal nests for house sparrows, starlings or swifts, why not put a nestbox on the outside wall of your house?

Position it under the eaves, away from any windows and out of the direct sun, wind and rain. Click on the [Swift Conservation](#) and [Swift nestboxes](#) links to the right for more information about external nestboxes for swifts.

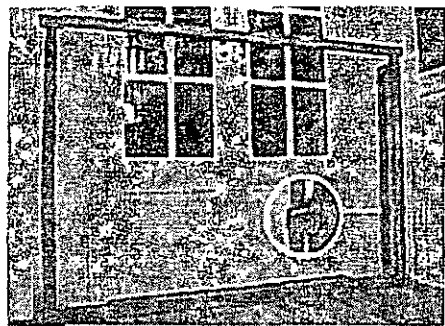
House martins build their nests under the eaves of houses. You could place a ready-made nest beneath the eaves, preferably on a north or east-facing wall and not above a door or window. Click on the link to the right, under 'In more depth', to see how to make one.

You can fix a small, removable shelf, 25 cm wide, about 2 metres beneath the nest site to catch any droppings. At the end of each season, you can take it down and clean it off, replacing it the following year before the birds return in April and May.

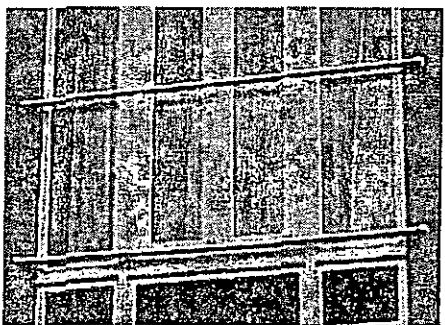
The download documents on this page have been supplied courtesy of Swift Conservation and Swift nestboxes.



SORENTO DESIGN – made to order



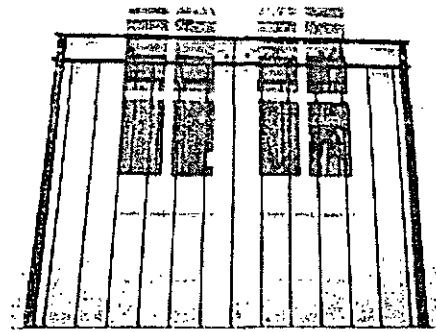
'MIRAGE' GLASS BALCONY – made to order in any size



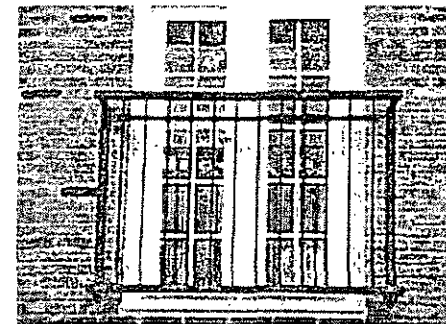
'FRANKLYN' GLASS BALCONY – made to order in any size

Don't forget to check the Sale items in Bargain Corner!

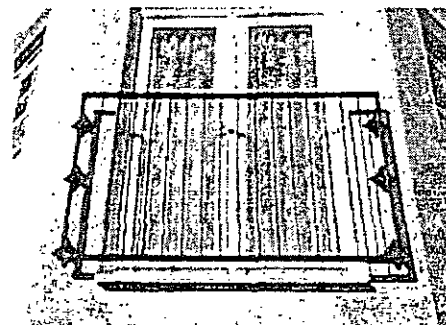
No extra charges – all costs include VAT, fittings, top-up paint and galvanising. Buy direct from our factory for a price you won't beat.



VANTAGE DESIGN – in stock from £213.60



BENTLY DESIGN – in stock from £204



OXFORD DESIGN – in stock from £158.40

QuartzO bollard square distribution

All dimensions are in mm.

Product variation	Product code	No of LEDs and wattage	Driver current	Lumen output	Colour temperature
Square	AL9001	16 x 1.6W	500mA	96lm/W	4000K
Asymmetric	AL9002	16 x 1.6W	500mA	96lm/W	4000K
Axial	AL9003	16 x 1.6W	500mA	96lm/W	4000K

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QuartzO bollard LED AL9000 series

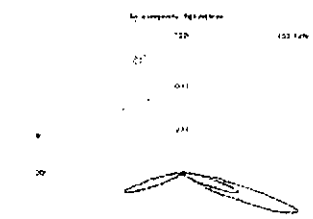


LED Lighting brochure

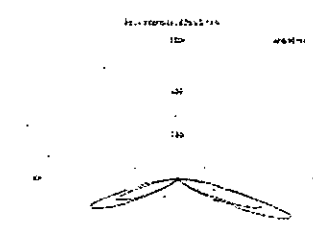
What you need to know.

AL9000 Technical information sheet

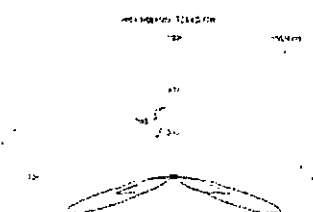
Polar diagrams



QuartzO bollard asymmetric distribution

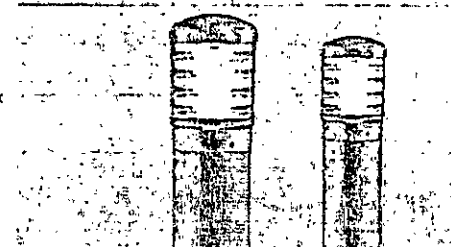


QuartzO bollard axial distribution



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Technical data



An uncompromisingly tough bollard offering the latest in LED technology and optical control for superb lighting performance. The louvre design emits a crisp, focused white light where it's wanted, and you can choose from three distributions - asymmetric, symmetric and axial - depending on your needs. The QuartzO Bollard LED has a solid steel shaft, 5mm thick polycarbonate bowl, anti-vandal screws, and is finished in a polyester coating.
Patent pending

On this page: Benefits | Features | Dimensions | Colour effects | Technical data

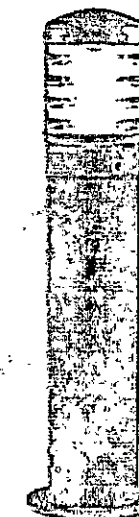
Benefits

- >50,000hrs
- 90% light output efficiency (LOR)
- Vandal resistant
- Available in black or silver
- Unique colour/branding effects on the louvres
- Optional branding or visual instructions on top louvre
- 3 light distribution patterns: Square, axial or asymmetric
- Low glare

Features

- IP66 head / IP65 body
- CHS steel body with anti-vandal screw fixings (M8)
- Optional access door
- 5mm thick polycarbonate cylinder
- Flange plate or foot mounted
- Colour: Black and fusion silver

Dimensions



Check out the ultimate in vandal resistant bollards on the Abacus Lighting Channel on YouTube.
youtube.com/abacuslighting

Unique Colour effects

The QuartzO Bollard LED comes with a range of visual effects which can give clear visual instructions, enhance mood, highlight architectural features or even support your branding.

Our unique colour effects will create drama, and by using coloured film within the top louvre ring, it means you can have any colour you choose, all without interfering with the more functional white light being given off.



YouTube