



CAST IRON AIR BRICK COMPANY

Building Architectural Enhancements

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Specification Sheet - Ciab9x3-2018

www.castironairbricks.co.uk

Single Brick Size Cast Iron Air Brick

Item GRID3 – VV3 – L3 – HM3 – FLY3 – MAX3 – WIN3 – Y3 – REG3



Cast iron air bricks are made from grey iron, cast in sand moulds bonded with resin to a fine cast finish. They are available in numerous sizes and are grouped according to the number of bricks they replace ie, single, double and triple and 12x6 inch. Here we look at the nine different types of single air bricks we have in the range and the photo above is an example from top to bottom of ... metric slotted air brick (WIN3), the Regency (REG3), maximum air (MAX3), grid pattern (GRID3) and Y pattern (Y3)

Uses

Mainly used as exterior air bricks , the single air brick can be used to provide air under suspended floors and for room ventilation to reduce condensation or provide combustion air for solid fuel appliances. The air bricks are mortared into the walls in the place of a single brick and designed to sit flush with the surrounding brick work. All UK terraced properties with suspended wooden floors have at least one at the base of the front room window and some have another under the front door step.

Examples

One of the simplest and our earliest design is the grid pattern air brick. It was a design typically used during Georgian and Victorian period and it's no surprise that we've supplied many fine and glamorous properties across the country (including Royal crescent, Bath) as well as hundreds of simple single fronted terraced houses. We've supplied the REG3 for Maccreanor Lavingtons restoration of a Bastwick street property in London as well as Triborough construction in New York. The MAX3 with 7800mm² free area of ventilation is certainly our most efficient single air brick as its name suggests and was certainly useful improving the ventilation during Kier constructions upgrade of the Mallory Court Hotel in Leamington Spa.

Finish

The hand made REG3, and MAX3 are only available painted as they are primed at the foundry to stop them rusting. The other cast iron air bricks can be either bare metal or painted black. We can supply bespoke RAL painted air bricks to match customers' existing brickwork or requirements. Please note that items painted in such a way are nonreturnable, there is an additional charge for this and it will add 1-2 weeks onto the delivery time.

Environmental Benefits and Longevity

The cast iron air bricks we commission are UK made and are expected to last the lifetime of the building. Y3, GRID3, FLY3, HM3 and VV3 are made in West Midlands, England, The WIN3 in Sheffield and REG3 and MAX3 are made in Edinburgh.

Cast iron is not affected by UV and is fire resistant and fully recyclable. The cast iron used in the manufacture of this product is sourced from scrap iron with the addition of a small amount of pig iron. On average, 95% of the casting is recycled material. The moulds used to create the castings are generated using sand that is packed in a box with one of our patterns and this sand is used again and again to create further castings.

Casting in the UK has ensured all our products are made to strict emission and pollution levels in accordance with the latest legislation and that the workers creating these products are fairly paid and have a safe working environment in which to earn a living.

Melting iron requires a substantial amount of energy from either gas or electricity and to offset the CO2 emissions from this process we have planted over 300 trees in our own 3 acre wood. The annual absorption of CO2 from our wood is enough to ensure the production of our castings is carbon neutral.

As we don't import any of our products, the mileage from foundry to our finishing workshop and distribution bay in North Devon is very low keeping our carbon footprint small and once installed we expect this air brick to last a life time.

Maintenance

The bare cast iron air bricks will rust but this rust forms a protective layer to prevent further corrosion and requires no further maintenance. Bare metal air bricks are ideal for installation in red brick properties but may stain light coloured brickwork or light coloured rendered properties. Painted air bricks use three part epoxy primer followed by two part epoxy black gloss top coat which is extremely hard wearing and is unlikely to require repainting within a decade unless the paint is chipped or the air brick exposed to salt. The gloss paint will dull over time, in exposed conditions it is likely to dull to a satin sheen in a year or two.

Notes for architects

The VV3 is the front part of the hit and miss air brick. It is often seen in Victorian properties and requested as a like for like replacement by clients and conservation officers who are perhaps unaware of how it originally worked. The items we sell are newly cast and still have the telltale hole for the slider in the centre of the vent giving a clue to its past history.

Although the single air bricks are the smallest sized air bricks we have, it still has a decent free area to supply a decent amount of ventilation. It is most suited to supplying air for providing combustion of in small low KW log burners. Cast iron is substantially more suitable for ventilating period properties compared to the terracotta clay bricks so often installed that typically allow only 2000mm² for a single brick sized vent. The MAX3, with 7800mm² supplies as much or in some cases more air than modern plastic air bricks.

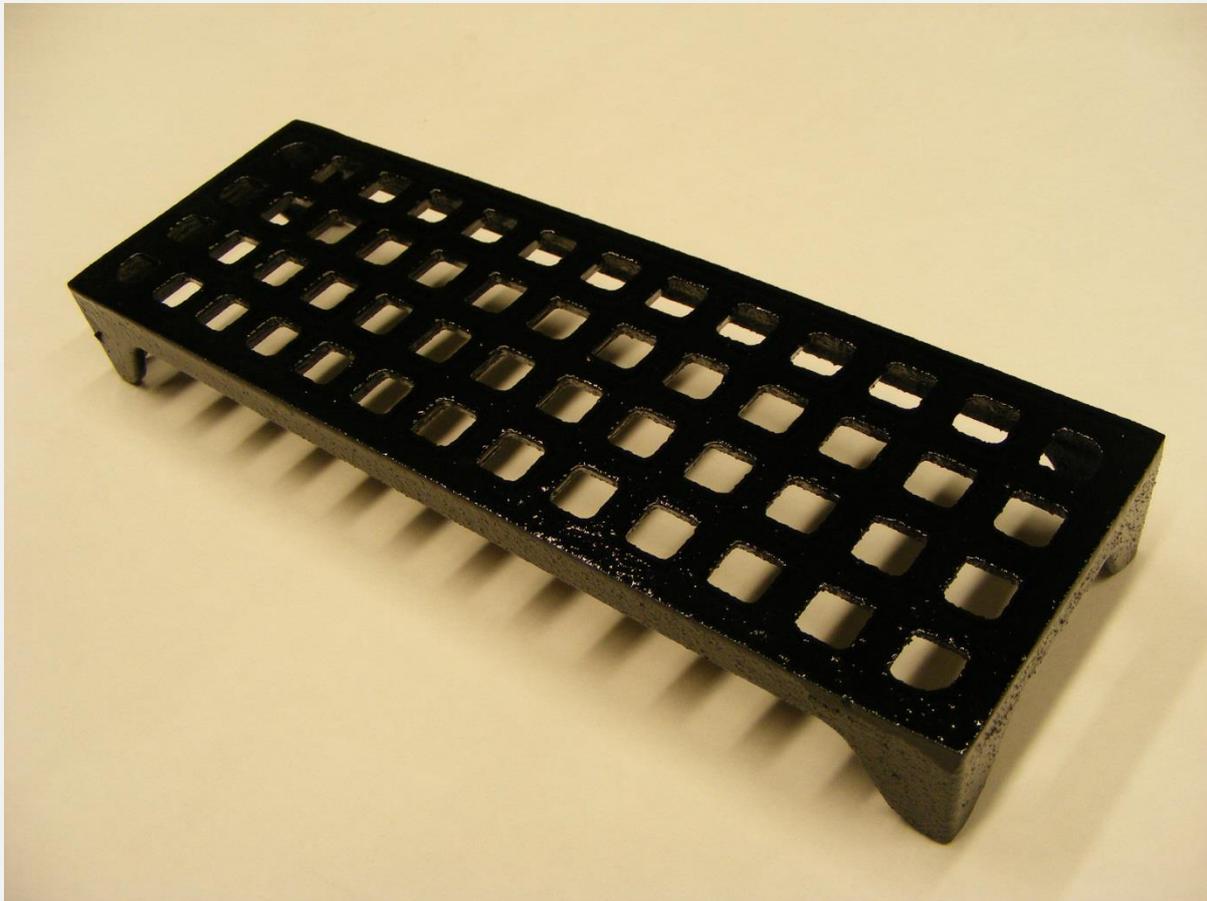
SPECIFICATION TABLE – SINGLE SIZE AIRBRICKS

Item Code	Nom. Size (Inch)	Size in mm	Vent Size (mm)	Weight (KG)	Free Area with mesh (mm ²)	Plate Thickness (mm)	Depth (mm)
WIN 3	8.5 x 2.5	213 x 66	10 x 40	1	4500	6	50
GRID3	9 x 3	228 x 76	10 x 10	0.5	5000	4	25
MAX3	9 x 3	228 x 77	17 x 17	1	7800	8	30
HM3 VV3	9 x 3	225 x 75	8 x 55	0.8	4500	4	30
L3	9 x 3	221 x 75	7	0.65	2500	5	37
Y3	9 x 3	228 x 75	-	0.5	4500	4	30
REG3	9 x 3	228 x 78	-	0.8	4500	5	50
FLY3	9 x 3	228 x 78	16 x 16	1.5	5200 (with mesh)	8	50

Material – Grey cast iron 250

British Made Product

Cast iron foundry source –WIN3 made in Sheffield, REG3 and MAX3 made in Edinburgh and remainder made in West Midlands, England.



For more details please see our website...

<https://www.castironairbricks.co.uk/product-category/cast-iron-air-bricks/airbrick-9x3inch/>

Alternatively email or call us

Sales@castironairbricks.co.uk

01598 711999

Delivery for this product is normally from stock for low volume orders and these are sent out the next working day for orders received before 12 o'clock. Ideally we hold 30 units bare metal and 10 units painted black of each design although this is a guide and can quickly change. If we need to paint more black this will be 5-7 days longer, bespoke painted fronts (customer supplied RAL) are typically 10-14 days

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