



CAST IRON AIR BRICK COMPANY

Building Architectural Enhancements

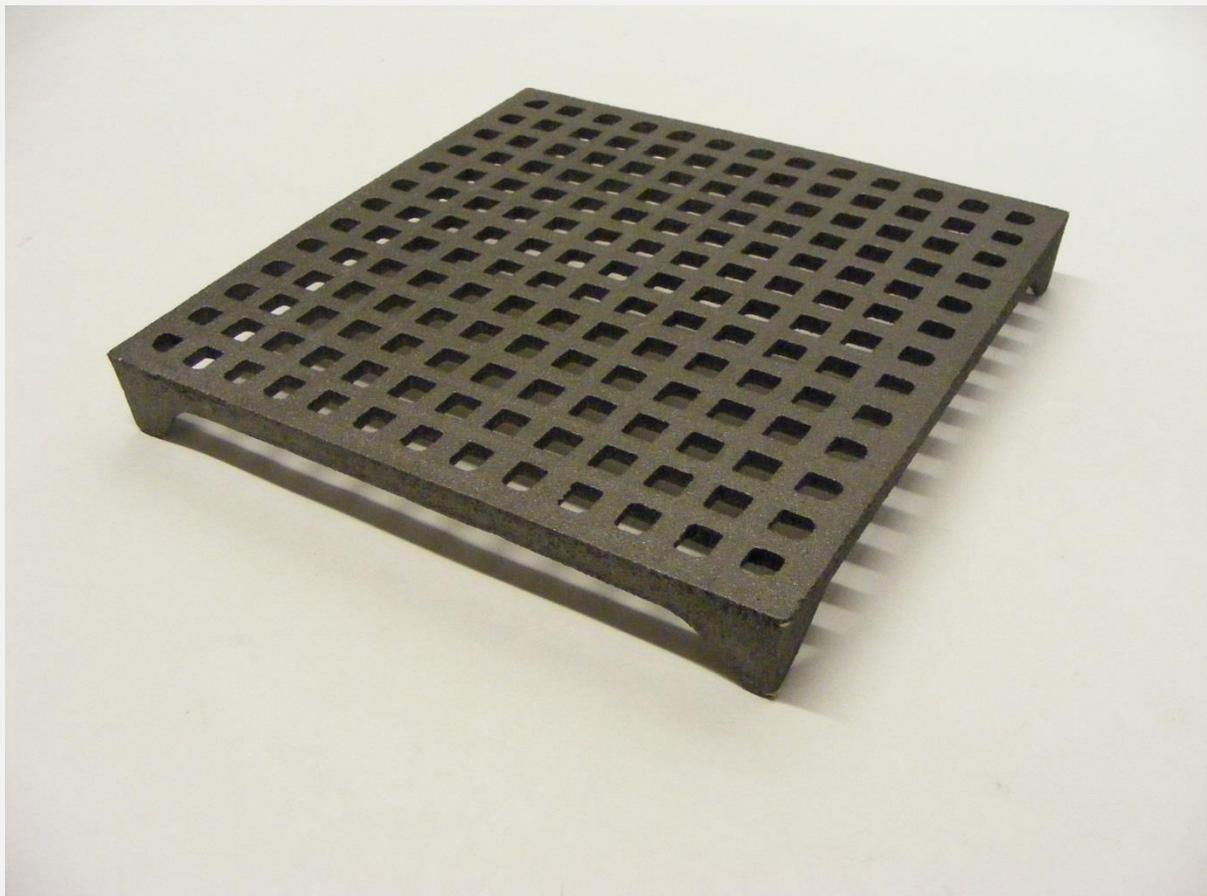
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Specification Sheet - Ciab9x9-2018

www.castironairbricks.co.uk

Triple Brick Size and 12x6 inch

ITEM NoS... GRID9 - VV9 - L9 - HM9 - FLY9 - MAX9 - WIN9 – REG12



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 seven different types of our largest triple air bricks and the 12 x 6 inch. The photo above is an example of grid pattern (GRID9)

Uses

Mainly used as exterior air bricks for large properties and commercial buildings, the triple air brick is predominantly used to supply room ventilation especially for combustion of solid fuel appliances and to reduce condensation. The air bricks are mortared into the walls in the place of three bricks and designed to sit flush with the surrounding brick work.

Examples

The MAX9 has the largest free area of all our air bricks and allows a huge 27,000mm² of aspiration through its square holes and is used extensively in large properties particularly in the capital. Flats and houses along Kensington Palace Gardens and London squares (Warwick, Eaton, Lowndes and Cadogan) all benefit from inclusion of this air brick during renovations and also the Prime Ministers country home at Chequers Aylesbury.

One of the simplest and our earliest design is the grid pattern air brick (item GRID9). It was a design typically used during Georgian and Victorian period and we still find a demand, quite often from architects looking to upgrade ventilation for boilers and open fires. The National Trust ordered such an air brick for Montacute House in Somerset and also for its pub in London, The George (Londons oldest pub?) and the Naval Base Museum in Portsmouth added one to its visitor centre alongside Nelsons flagship HMS Victory.

Finish

The triple sized cast iron air bricks can be either bare metal or painted black whilst the Regency REG12 is only available painted. 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. All air bricks of this size are made in West Midlands, England with the exception of the Regency 12x6 which is 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 VV9 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.

The Regency 12x6 item REG12 has deep shoulders making it ideal for installing in a line or tiled, a pair therefore can be used to make an air brick of 12x12 or indeed 24x6 although a lintel will be required for the latter.

When installing large air bricks to improve the ventilation of rooms and buildings, the MAX9, as the name suggests has by far the largest free area of any air brick. If even more ventilation is required an alternative is to install a pair of MAX6 air bricks which will generate 36,000mm² of free area.

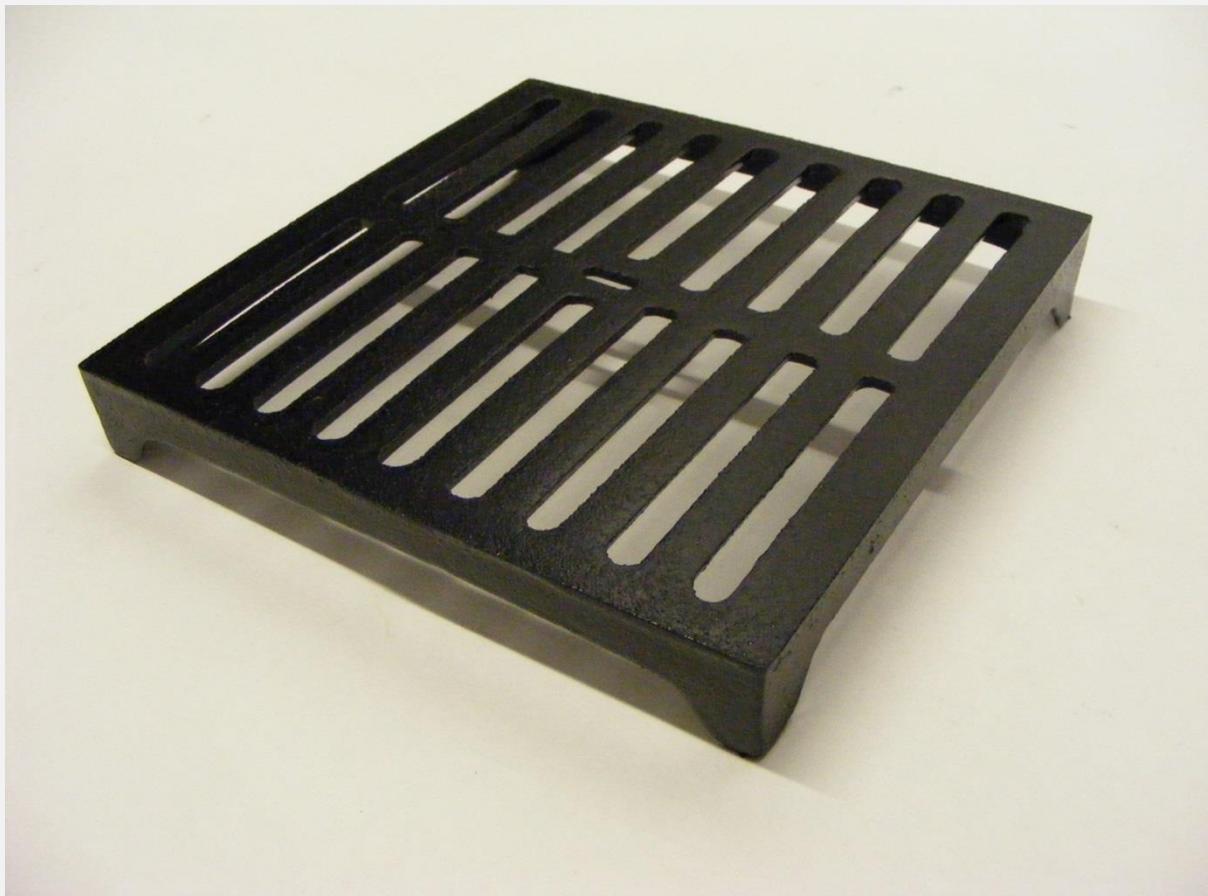
SPECIFICATION TABLE – TRIPLE SIZE & 12x6 AIRBRICKS

| 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 9 | 8.5 x 8 | 213 x 200 | 10x40x3 | 5 | 13,500 | 6 | 50 |
| GRID9 | 9 x 9 | 225 x 225 | 10 x 10 | 1.9 | 17,000 | 4 | 35 |
| MAX9 | 9 x 9 | 228 x 228 | 13.5x13.5 | 3 | 27,000 | 7 | 50 |
| HM9 VV9 | 9 x 9 | 222 x 222 | 10x95x2 | 2.2 | 17,000 | 5 | 30 |
| L9 | 9 x 9 | 225 x 225 | 9 | 1.8 | 17,000 | 5 | 42 |
| FLY9 | 9 x 9 | 226 x 226 | 16 x 16 | 2.8 | 13,000 (with mesh) | 7 | 45 |

Material – Grey cast iron 250

British Made Product

Cast iron foundry source –REG12 is made in Edinburgh, MAX9 in Oxford 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-9x9inch/>

<https://www.castironairbricks.co.uk/product-category/cast-iron-air-bricks/12-x-6-305-x-150mm/>

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 15 units bare metal and 5 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

Cast Iron Air Brick Company, Down Farm, Brayford, EX32 7QQ



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