



CAST IRON AIR BRICK COMPANY

Building Architectural Enhancements

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Specification Sheet - ciabWIN1-2018

www.castironairbricks.co.uk

METRIC “WINDSOR” CAST IRON AIR BRICKS

Item WIN3 – WIN6 – WIN9

Corresponding numbers with duct items PER3 – CAV3 – CAV6 – CAV9



Cast iron metric air bricks are made from grey iron, cast in sand moulds bonded with resin to a fine cast finish. They are available in just one size but are interlocking and are predominately used singularly, double or triple. Our metric Windsor air bricks are the only cast iron air bricks fully interlocking with modern metric cavity wall sleeves and periscopes and are exclusive to the cast iron air brick company. Specification sheets for the ducting this air brick engages with (cavity wall sleeves and periscope duct) can be found on Rytons website or via the relevant section on our own website.

Problem Solver

Modern plastic metric air bricks are extremely cheap which is great for the budget but unfortunately not for the look of a high end property. The client sees the finish isn't up to standard and it's not long before we're contacted to get them swapped for something that looks in keeping. Invariably, cast iron is "in keeping" and traditionally it also involves imperial measurements.

The single imperial air brick is around 9 x 3 inch (225mm x 75mm) because an imperial brick is around the same size. Unfortunately, modern houses are not built with imperial bricks, they're built using metric bricks which are only 8 5/8 x 2 5/8 inch (215mm x 65mm) so none of our imperial air bricks can be mortared in correctly in a metric brick bond which is why we've designed the metric "Windsor" air brick. At just 213mm x 66mm it's perfectly suited for mortaring into modern brick properties.

Another feature of the metric air brick is that unlike the rest of imperial air bricks it engages perfectly with metric plastic ducting so can be used in conjunction with the Rytons cavity wall sleeves and periscope ducting without the need for duct tape. There are two protrusions on the top of each air brick and corresponding holes at the bottom to allow the air bricks to be doubled and tripled to engage into the full range of larger wall sleeves.

Uses

Mainly used as an exterior air brick, the Windsor metric cast iron air brick can be used anywhere where the plastic air brick is used ie. sub floor ventilation, cavity ventilation, condensation reduction and room ventilation except the Windsor air brick leaves a high end finish that enhances the quality of the property. Although frequently specified by architects and designers on numerous new builds and extensions we are still finding significant numbers of clients having Windsor air bricks fitted to replace plastic air bricks that have only recently been installed.

Examples

The Windsor air brick has been one of our biggest success stories over the last ten years in product design and is used extensively in England across the country. We were thrilled to deliver fifty to the ITV studios in 2013 during the rebuild of the new set of Coronation Street and now each of the houses on the set in "Weatherfield" has at least one WIN3 painted black within the brickwork. In 2016 we supplied Lengard of Harlow with a smaller quantity for a delicate restoration at Kew Gardens

Finish

Metric 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

All the cast iron air bricks we commission are UK made and this product is made in Sheffield, England.

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 brick will rust but this rust forms a protective layer to prevent further corrosion and requires no further maintenance and is ideal for installation in red brick properties. Please note the bare metal version may stain light coloured brickwork or light coloured rendered properties when it rusts. 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

Windsor metric air bricks allow specifiers to link our traditional cast iron products with 21st century ducting using the Rytons range. Rather than replacing ugly plastic metric air bricks when the builders have gone with the Windsor cast iron it's far easier, more cost effective and creates a much better impression with clients to install them during the build.

The Windsor air bricks are denominated with the "win" prefix and for ease of referencing we've loosely linked them to coincide with our imperial listings, 3 for a single, 6 for a double and 9 for a triple. There is only one metric air brick, the Windsor and on its own it's the WIN3, the larger sizes are achieved by connecting two or three air bricks to create WIN6 and WIN9.

We sell the air bricks on their own but they can also be specified complete with the Rytons cavity wall sleeve ducting and periscope ducting. These are denoted with the prefix CAV and PER respectively, CAV3 is a single cavity wall sleeve complete with a single Windsor air brick, CAV6 a double cavity wall sleeve with a pair of Windsor air bricks and CAV9, a triple cavity wall sleeve complete with three Windsor air bricks.

The cavity wall sleeves are all telescopic and are 230mm long and extend to 368mm (single) and 404mm (double and triple). For installations where the walls are thicker than this it is possible to add another wall sleeve and we sell these separately without an air brick as cavity wall extensions using the prefix CAVHEXT. A single cavity wall sleeve is CAVHEXT3, CAVHEXT6 (double) and CAVHEXT9 (triple)

The Windsor air bricks engage externally in the corresponding lugs at one end of the cavity sleeve leaving the internal flange free to accept a grille for display in the room. We have specifically commissioned grilles for this purpose "Daisy" grilles for the single and double sized sleeves. There is also an opportunity to add mesh internally to prevent the ingress of bugs and flies. Grilles recommended internally are the DAY104 for single and DAY107 for double wall sleeves and a heritage grille for the triple HER9.

Periscope vents are only available for a single sized air brick, if more air is required then adding more air bricks evenly spread with bricks between them along the wall is the only option. A single periscope plastic complete with Windsor air brick is item PER3. There is no requirement to attach a grille to the internal (underfloor) end of the periscope but it is possible to then convert the rectangular end to round using the adapter PERRND and then divert air anywhere under the floor using flexible 100mm round duct (FDUCT41M for 1 metre or FDUCT42M for 2 metre)

It all sounds very complicated but we have been supplying the stunning Windsor metric air bricks to combine with Rytons ducting for many years and have seen hundreds of drawings, plans and ideas for all kinds of renovations and new builds. Have a look through the guide here and our website and if you have any problems let us know. Whatever your plan, the best place to start is to send us an email sales@castironairbricks.co.uk ask for Adrian or Amanda

SPECIFICATION TABLE – METRIC WINDSOR AIRBRICKS

Item Code	Nom. Size (Inch)	Size (mm)	Vent Size (mm)	Weight (kg)	Air Flow (mm ²)	Plate Thickness (mm)	Reverse Depth (mm)
WIN 3	8.5 x 2.5	213 x 66	10 x 40	1	4500	6	50
WIN 6	8.5 x 5.3	213 x 132	10x40x2	2	9000	6	50
WIN 9	8.5 x 8.5	213 x 213	10x40x3	3	13500	6	50

Material – Grey cast iron 250

British Made Product

Cast iron foundry source – Sheffield, England

For more details please see our website...

<https://www.castironairbricks.co.uk/product-category/metric-air-bricks/>

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 50-100 units bare metal and 10 units painted black 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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