



CAST IRON AIR BRICK COMPANY

Building Architectural Enhancements

riba
product
selector

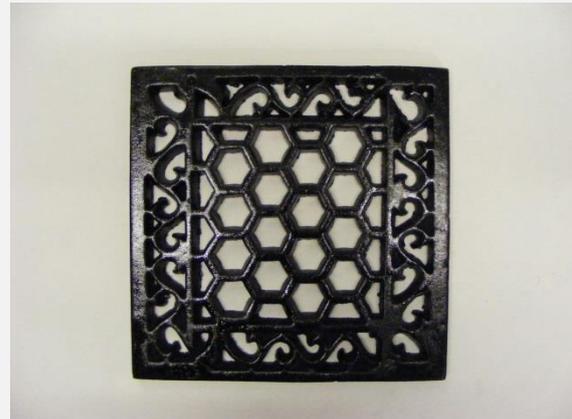
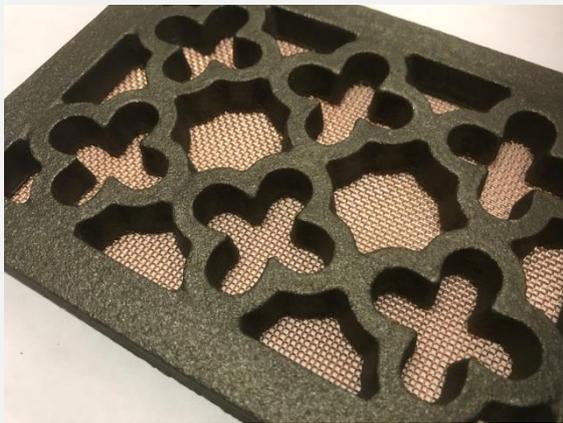
Specification Sheet – ciabgrilles1-2018

www.castironairbricks.co.uk

Vent and Drainage Grilles

ITEMS – 3” slotted, 3” daisy, 10” daisy, Westminster, Heritage and square slotted grilles.

Not included in this specification sheet are round, made to measure and long gratings over 750mm which have separate individual spec sheets

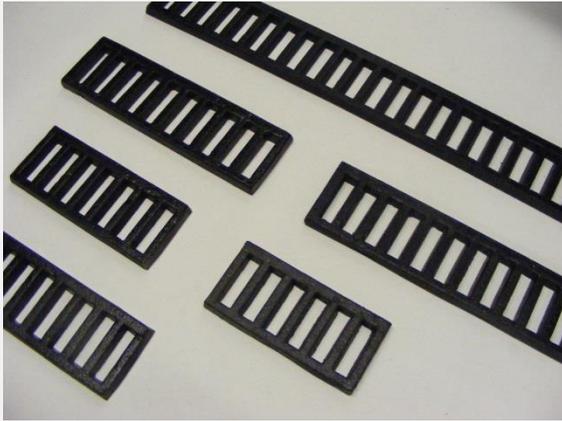


Top Left – Westminster - various sizes available

Top Right – 3” Daisy - various lengths available

Lower Left – 10” Daisy - available in 7” (shown) and 4” high

Lower Right – Heritage - various sizes available



Above Left – 3” slotted – available in various lengths

Above Right – square slotted – available in various sizes

Cast iron vent and drainage grilles are made from grey iron, cast in sand moulds bonded with resin to a fine cast finish and are available in six different styles to cover a huge range of uses. It is important to note that this spec sheet doesn't cover round, made to measure square hole and long gratings which are already covered in their own spec sheets.

Uses

These can be used for ventilation of air, either supply or exhaust either in interiors or exterior to the property and also exterior for drainage gratings. Optional mesh shown in some of the examples is for ventilation use only and is not suitable for drainage gratings where it will quickly block.

Examples

These grilles are used across a wide range of period properties across the country and also overseas. Drilled they are often used as vent grilles, whilst undrilled grilles are used to replace missing or damaged drainage gratings.

The situations where these grilles have been and are being used is almost limitless and includes extractor outlets, natural ventilation, air inlets, combustion air supply, cupboard vents, kitchen unit kick board vents, floor vents, door step grilles, basement ventilation, drainage grilles and drainage channels.

The 10" wide Daisy grilles can be used in conjunction with cavity wall sleeves as interior vent grilles using single and double Windsor cast iron air bricks on the outside. The larger Heritage grilles are often used as a feature in drainage, garden landscaping and walkways.

Heritage by name and heritage by nature, these stunning, Scottish made, hand moulded castings are perfectly at home in any period property and already find themselves ventilating many iconic British

properties including Barton Mansion (IOW) former home of Queen Victoria and Albert, Holyrood House in Edinburgh and Regents Parks Clarence Gate Lodge.

The Westminster vents may or may not have been installed in Westminster but they are certainly at home at St Cross College, Oxford University and full length ones draining the pathways along the top of the grade 1 listed Italian gardens in Hyde Park .

Slotted grilles are much more utilitarian and feature in many industrial as well as residential properties across the country. Simple Victorian terraces are often restored using the 5 or 6 inch square slotted grille in extractor outlets on external walls as well as drain gratings. We have supplied these grilles to numerous castles and fortifications, the Tower of London being the most famous.

Finish

Westminster grilles are available painted black or bare metal to eventually go rusty (or for clients to paint in site) and the 10" daisy grilles are available painted black or lacquered grey. All the other grilles are painted black as standard as the foundry prime our grilles before dispatch to prevent them rusting in storage. We can however supply bespoke RAL painted grilles 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.

In most cases grilles can be supplied drilled to allow for securing screws (not supplied) if required or left undrilled. The exception to this are the 10" daisy grilles which are pre drilled with 8mm diameter holes and screws are supplied

Environmental Benefits and Longevity

All the cast iron round vents we commission are UK made and the grilles illustrated on this spec sheet are made in Wolverhampton, Nottingham, London and also Edinburgh where we use four foundries for the different types.

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

Painted grilles are going to last several years before they need repainting. Clients might decide not to repaint them and let them “naturally rust” as this rust forms a protective layer to prevent further corrosion and requires no further maintenance, this would be an acceptable solution for installation in red brick properties but may stain light coloured brickwork or light coloured rendered properties where repainting black is recommended. We paint using 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 grille 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.

Lacquered 10” daisy grilles are perfectly acceptable for interiors but the lacquer may break down in the harsh extremes externally. Where they are used externally it may be necessary to re lacquer them from time to time and certainly prudent to ensure the lacquer doesn’t get scratched.

Notes for architects

No mesh is required for grilles used as drains as they will quickly block with debris and render the grille useless to drain away the water. Please bear in mind that the mesh reduces the free area of the grille by around 1/3.

Grilles are supplied either drilled in the corners for securing to walls or undrilled.

Careful thought needs to be given when specifying grilles as to the diameter of the hole they are covering. Typical distances of drilled securing holes in our cast iron square grilles from the circumference of potential bore holes is as follows...

Bore Diameter in Wall	Square Grille Size in Inches	Square Grille Size in mm	Distance securing holes are from edge of Bore Hole	Heritage or Slotted Grille item No.
100mm	5 x 5	125 x 125	28mm	SLOT5
100mm	6 x 6	150 x 150	43mm	HER6 or SLOT6
100mm	7 x 7	175 x 175	72mm	HER7 or SLOT7
125mm	6 x 6	150 x 150	27mm	HER6 or SLOT6
125mm	7 x 7	175 x 175	38mm	HER7 or SLOT7
125mm	8 x 8	200 x 200	65mm	HER8 or SLOT8
150mm	7 x 7	175 x 175	23mm	HER7 or SLOT7
150mm	8 x 8	200 x 200	48mm	HER8 or SLOT8

The wall surface, the mortar and condition of the brick work or render should always be the deciding factor in deciding the size of grille. A grille that is being placed over a perfectly drilled bore hole in a structurally sound wall can have the securing holes much closer to the circumference of the bore hole. Also it is worthwhile considering the position of the grille and the weight of the grille when selecting screws and plugs. It is essential to ensure the correct screw length and plugs to secure the grille if it is particularly high up and or over a public thoroughfare.

Westminster Grilles

Item	Nom. Size (Inch)	Size (mm)	Weight (kg)	Free Area(mm ²)	Plate Thickness (mm)
WEST4	4 x 4	108 x 108	1	3000	10
WEST64	6 x 4	152 x 108	1.2	4000	10
WEST124	12 x 4	295 x 108	2	8000	10

SG grey iron castings made in Nottingham, England

10" Daisy Floor and Wall Vents

Item	Nom. Size (Inch)	Exact size (mm)	Weight (kg)	Air Flow mm ² (with mesh)	Thickness (mm)
DAY104	10 x 4	267 x 95	1.2	6900 (4550)	10
DAY107	10 x 7	267 x 170	2	13800 (9100)	10

SG grey iron castings made in Wolverhampton, England

Square Slotted Grilles

Item	Nom. Size (Inch)	Size (mm)	Vent Size (mm)	Weight (kg)	Air Flow (mm ²)	Plate Thickness (mm)
Slot 4	4 x 4	100	10	0.5	3,000	9
Slot 5	5 x 5	125	8	0.7	5,000	9
Slot 6	6 x 6	150	10	0.8	8,750	9
Slot 7	7 x 7	175	14	1.5	11,000	11
Slot 8	8 x 8	200	8	2	14,500	9
Slot 9	9 x 9	225	13	2.6	20,000	12
Slot 12	12 x 12	305	14	5.0	41,000	12

Grey iron castings made in Scotland and Wolverhampton, England

3" Daisy Grilles

Item	Number of daises	Nom. Size (Inch)	Air Flow mm ² (with mesh)	Exact size (mm)	Plate Thickness (mm)
DAY33	1	3 x 3	2000 (1330)	70 x 75	7
DAY53	2	5 x 3	4000 (2660)	135 x 75	7
DAY83	3	8 x 3	6000 (4000)	197 x 75	7
DAY103	4	10 x 3	8000 (5330)	263 x 75	7
DAY133	5	13 x 3	10000 (6660)	328 x 75	7
DAY153	6	15 x 3	12000 (8000)	392 x 75	7
DAY183	7	18 x 3	14000 (9330)	455 x 75	7
DAY213	8	21 x 3	16000 (10660)	519 x 75	7
DAY233	9	23 x 3	18000 (12000)	584 x 75	7

SG grey iron castings cut to order from material made in London

Heritage Grilles

Item	Size (inch)	Size (mm)	Weight (kg)	Air Flow (mm ²)	Plate Thickness (mm)
HER6	6 x 6	153 x 153	1	6500	9
HER7	7 x 7	176 x 176	2	10000	11
HER8	8 x 8	200 x 200	3.0	14000	11
HER9	9 x 9	229 x 229	3.2	16000	11
HER96	9 x 6	224 x 149	1.5	12000	9
HER12	12 x 12	305 x 305	4	30000	10
HER126	12 x 6	305 x 150	2.5	15000	11
HER129	12 x 9	305 x 230	3.7	28000	11
HER15	15 x 15	380 x 380	8	45000	12
HER18	18 x 18	457 x 457	10	68000	11
HER20	20 x 20	507 x 507	12	80000	11

Green sand moulded grey iron castings made in Scotland

3" Slotted Grilles

Item	Nom. Size (Inch)	Size (mm)	Vent Size (mm)	Weight (kg)	Air Flow (mm ²)
Slot 33	3 x 3	85 x 75	11	0.3	1,800
Slot 453	4.5 x 3	110 x 75	11	0.4	2,200
Slot 53	5 x 3	130 x 75	11	0.5	2,700
Slot 63	6 x 3	155 x 75	11	0.7	3,300
Slot 73	7 x 3	180 x 75	11	0.75	3,850
Slot 83	8 x 3	205 x 75	11	0.8	4,400
Slot 93	9 x 3	225 x 75	11	1.0	5,000
Slot 103	10 x 3	257 x 75	11	1.1	5,500
Slot 113	11 x 3	280 x 75	11	1.2	6,050
Slot 123	12 x 3	304 x 75	11	1.3	6,600
Slot 153	15 x 3	380 x 75	11	1.6	8,500
Slot 183	18 x 3	450 x 75	11	2.0	10,000
Slot 243	24 x 3	600 x 75	11	2.5	13,000

12mm thick grey iron castings cut to order from material made in Scotland

For more details please see our website...

<https://www.castironairbricks.co.uk/product-category/vent-and-drainage-grilles/>

Alternatively email or call us

Sales@castironairbricks.co.uk

01598 711999

The 3" slotted, 3" daisy and Westminster grilles are all cut to order and take about a week. We hold quite a number of Heritage grilles and square slotted grilles in stock but please contact us for delivery details of these products as not all of them are painted and ready for dispatch. Large heritage grilles 12" and over are painted to order. Bespoke painted fronts (customer supplied RAL) are typically 7- 10 days

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



CAST IRON AIR BRICK COMPANY

Building Architectural Enhancements

riba
product
selector

Specification Sheet – ciabgrilles1-2018

www.castironairbricks.co.uk