

Access/Shield Series C/O/T

Removable Access Doors

The Access/Shield Series of access doors are available in three types:-

Series C

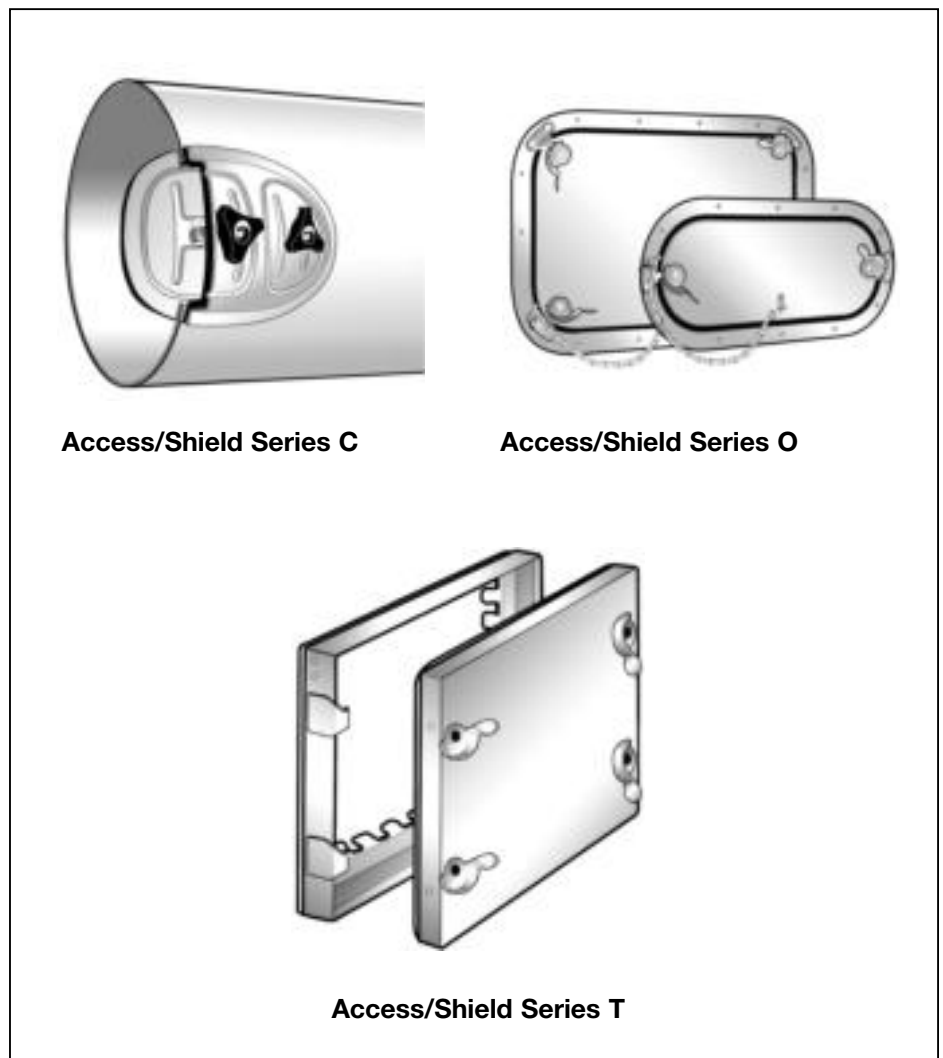
Designed for inclusion into circular ductwork, for access to dampers, duct cleaning inspection and maintenance.

Series O

Designed for inclusion in insulated or uninsulated ductwork, for access to dampers, duct cleaning inspection and maintenance purposes.

Series T

Designed for inclusion in ductwork, for access to dampers, duct cleaning inspection and maintenance purposes. (Square and rectangular access doors with Tab type fixing).



*action*air

Dampers Controls Fancoils

Ruskin Air Management Limited

www.ruskinuk.co.uk

Access/Shield Series C

Application

The Access/Shield Series C Type access doors are designed for inclusion in to circular ductwork, for access to dampers, duct cleaning inspection and maintenance.

Features and Design Guide

- Choice of three sizes to suit circular ducts of between 80mm diameter to 1016mm diameter.
- Quick installation.
- Self-adhesive template.
- Manufactured from galvanised steel pressing.
- Fast removal and door replacement without the use of tools.

Approvals

Complies with the latest DW144 leakage specification.

Specification

The door comprises of two parts, an inner door and an outer door, held apart by two conical springs each around a plated bolt.

Each bolt having a yellow captive plastic knob to compress the springs bringing the two parts together around the duct.

Each part is manufactured from pressed sheet steel with stiffening ribs. The inner door includes a one joint gasket to provide a seal against the inside of the duct.

Installation Method

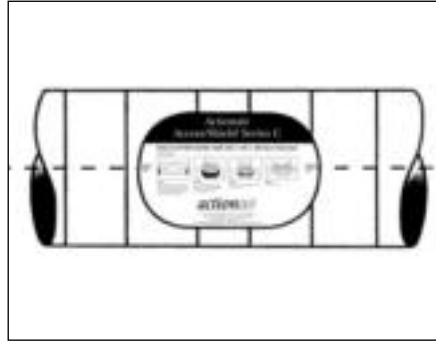


Figure 1

Mark centre line on duct. Attach self-adhesive template to duct, ensuring alignment of template with centre line of duct using templates datum line. Cut opening to outside of template.



Figure 2

Fully slacken captive hand knobs. Feed inner door diagonally through opening at approximately 30° to centre line of duct.

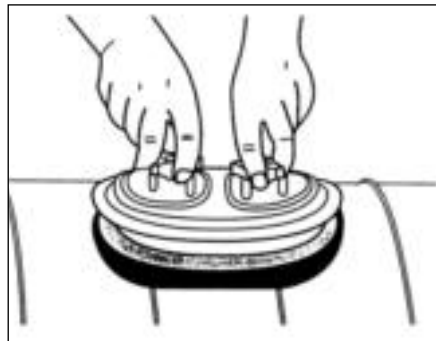


Figure 3

Centralise door and pull gently to locate inner part in duct.

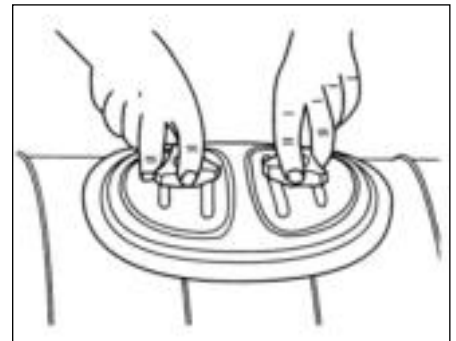


Figure 4

Tighten knobs fully.

Product Range

Series Type – AS/C 080

Having a door size of **200mm x 80mm** to suit circular duct sizes of 80mm dia, 100mm dia and 125mm dia, **Weight 0.4 kg.**

Series Type – AS/C 150

Having a door size of **250mm x 150mm** to suit circular duct sizes of 150mm dia, 180mm dia, 200mm dia, 224mm dia, 250mm dia, 280mm dia, 300mm dia, 315mm dia, 355mm dia, 400mm dia and 450mm dia, **Weight 0.7 kg.**

Series Type – AS/C 300

Having a door size of **400mm x 300mm** to suit circular duct sizes of 400mm dia, 450mm dia, 500mm dia, 560mm dia, 630mm dia, 711mm dia, 762mm dia, 813mm dia, 914mm dia and 1016mm dia, **Weight 1.8 kg.**

Ordering Information (Note: customers duct diameter must be specified)

Example

| Please specify | Quantity | Series | Type | Door Size | Dia |
|----------------|----------|-----------------|----------|---------------|-----|
| | 5 | Access/Shield C | AS/C 150 | 250mm x 150mm | 224 |

Access/Shield Series O

Application

The Access/Shield Series O Oval type access doors are designed for inclusion in insulated or uninsulated ductwork, for access to dampers, duct cleaning inspection and maintenance purposes.

Features and Design Guide

- Choice of four sizes.
- Suitable for flush fitting or surface mounting to the ductwork.
- Positive cam and lock fastening.
- Pre-punched holes for ease of installation.
- Safety retaining chain.
- Manufactured from galvanised steel.

Approvals

Complies with the latest DW144 leakage specification.

Specification

Door

The door is a two panel design for a strong and robust assembly. The inner and outer panels are manufactured from pressed galvanised mild steel (24swg for Sizes AS/O 1, 2 and 3 and 22swg for Size AS/O 4). The standard thickness is 25mm nominal.

Insulation

The insulation which is totally contained between the door panels, has excellent thermal, acoustic and fire resisting properties, with a thermal density of 40 kg/m³.

Seal

The extruded seal with welded seam incorporating an integral flexible "hollow tube", ensures a low leakage performance and is fitted between the two door panels for strength and stability.

Frame

The pressed one piece combined flange/frame are manufactured from galvanised mild steel (24swg for Sizes AS/O 1, 2 and 3 and 22swg for Size AS/O 4).

Both the inner and outer flanges are pre-punched for easy on site installation.

Latches

The Zinc plated steel progressive cam fasteners and clamps (two sets for Sizes AS/O 1 and 2, four sets for Sizes AS/O 3 and six sets for Size AS/O 4) positioned at strategic locations for optimum closure and low leakage.

Security Chain

A retaining safety chain is fitted to both door and frame, to alleviate damage or injury during routine maintenance or cleaning, as well as negating loss.

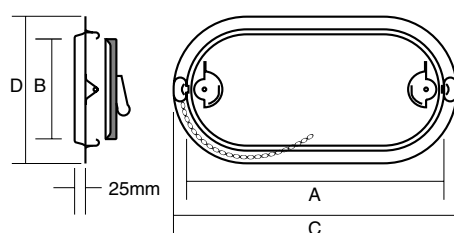
Product Range

The product range includes four sizes of door in the following flat oval arrangements:-

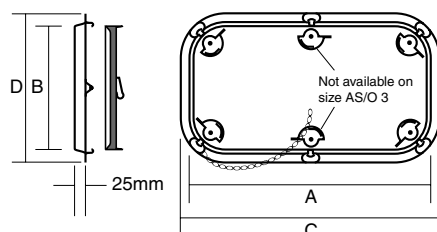
| Size mm | Part Number | Approx Weight (kg) |
|-----------|-------------|--------------------|
| 233 x 143 | XSGQ00190 | 0.90 |
| 362 x 227 | XSGQ00192 | 1.80 |
| 494 x 354 | XSGQ00193 | 3.20 |
| 647 x 496 | XSGQ00194 | 6.25 |

Dimensional Data

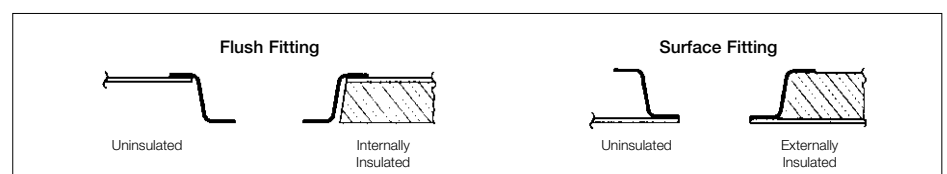
Sizes AS/01 and AS/02



Sizes AS/03, AS/04



Mounting Methods



Special Note:

To achieve and maintain a good seal between the access doors and ducting, the ducting may need to be stiffened or reinforced so that bowing or leakage in the

area of the access doors does not occur. This will ensure that the access door frames retain their original shape and flatness.

Ordering Information

Example

| Please specify | Quantity | Series | Type | Door Size |
|----------------|----------|-----------------|-------|---------------|
| | 5 | Access/Shield O | AS/O3 | 460mm x 320mm |

Access/Shield Series T

Application

The Access/Shield Series T square and rectangular access doors with Tab type fixing are designed for inclusion in ductwork, for access to dampers, duct cleaning inspection and maintenance purposes.

Features and Design Guide

- Choice of seventeen sizes.
- Fast and simple installation.
- Tab type fixing.
- Double skin insulated construction.
- Manufactured from galvanised sheet steel.
- Positive cam and lock fastening.

Approvals

Complies with the latest DW144 leakage specification.

Specification

Door

The door is manufactured from galvanised sheet steel and of double skinned construction. 25mm thick.

Insulation

The insulation which is contained between the door panels, has excellent thermal and acoustic properties, with a thermal density of 45 kg/m³.

Seal

The frame incorporates a compression sealing gasket.

Frame

The frames comprise of a folded galvanised steel Z section with castellated edge tabs for folding over into the duct opening, thus there being no need for rivets in fitting the assembly.

Latches

The half turn cam fasteners are positioned at strategic locations for optimum closure, low leakage and quick release for access.

Options

Please contact Actionair Sales Office for information on the following options; external flanges to retain duct insulation edges, hinged doors and wire safety tie.

Product Range

The standard product range includes seventeen sizes, from 100mm x 100mm to 600mm x 600mm. Rectangular doors are also included in the standard range.

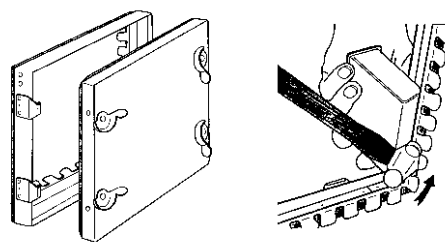
Installation Method

Cut a hole in the ductwork 30mm under door size.

e.g.

AS/T 1515 door size = 150mm x 150mm, therefore cutting hole size = 120mm x 120mm.

Fit the frame into the hole in the duct and whilst compressing the frame gasket, knock over the edge tabs using a dolly and hammer as shown right.



Standard Product Range

| Size/Type | Door Size (mm) | Cutting Hole Size Approximate (mm) | Weight (kg) |
|-----------|----------------|------------------------------------|-------------|
| AS/T 1010 | 100 x 100 | 70 x 70 | 0.50 |
| AS/T 1015 | 100 x 150 | 70 x 120 | 0.60 |
| AS/T 1020 | 100 x 200 | 70 x 170 | 0.70 |
| AS/T 1515 | 150 x 150 | 120 x 120 | 0.75 |
| AS/T 1520 | 150 x 200 | 120 x 170 | 0.80 |
| AS/T 1530 | 150 x 300 | 120 x 270 | 1.00 |
| AS/T 2020 | 200 x 200 | 170 x 170 | 1.00 |
| AS/T 2030 | 200 x 300 | 170 x 270 | 1.75 |
| AS/T 2040 | 200 x 400 | 170 x 370 | 2.00 |
| AS/T 2525 | 250 x 250 | 220 x 220 | 1.75 |
| AS/T 3030 | 300 x 300 | 270 x 270 | 2.00 |
| AS/T 3045 | 300 x 450 | 270 x 420 | 2.75 |
| AS/T 3060 | 300 x 600 | 270 x 570 | 3.00 |
| AS/T 4040 | 400 x 400 | 370 x 370 | 3.50 |
| AS/T 4060 | 400 x 600 | 370 x 570 | 4.00 |
| AS/T 4545 | 450 x 450 | 420 x 420 | 3.75 |
| AS/T 6060 | 600 x 600 | 570 x 570 | 6.00 |

Please note rectangular sizes shown can be mounted in either plane i.e. width x height or height x width. Please contact Actionair Sales Office for availability of sizes not shown.

Ordering Information

Example

| Please specify | Quantity | Series | Type | Door Size |
|----------------|----------|-----------------|-----------|---------------|
| | 5 | Access/Shield T | AS/T 4040 | 400mm x 400mm |

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