

Advanced Air UK Ltd

Burrell Way
Thetford
Norfolk IP24 3QU
Tel: 01842 765657
Email: Projects@advancedair.co.uk



0160 CE Series Smoke Fire Damper

0160-03 Blockwork wall HEVAC (2 hours E120)

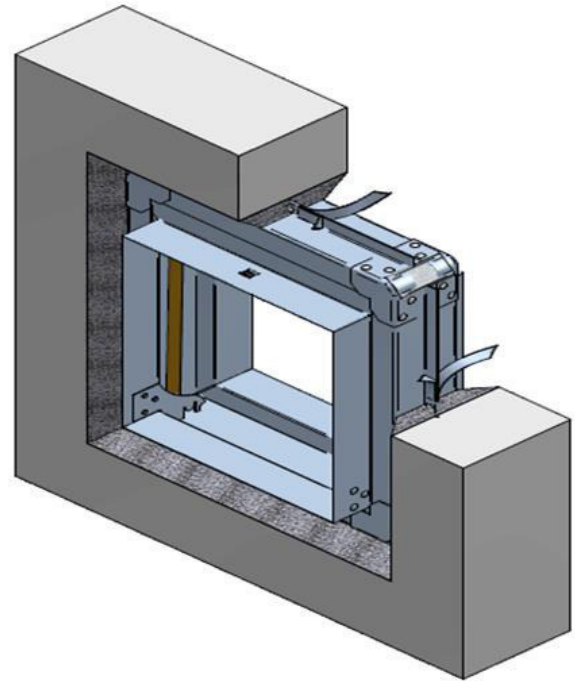
Available as single section installation only

Pre Installation Notes

1. Ensure that the damper is kept in a clean dry environment and that there is no damage to the damper.
2. Remove all packaging and transit ties before installation.

Installation Procedure

1. Vertical builders work barrier to have an appropriately sized lintel to ensure an opening clearance for the expansion frame.
2. The opening in the wall must be cleaned, free of dust and any other contaminants which could impair the mortar adhesion. A clearance gap 25mm (min) to 50mm (max) must be maintained around the expansion frame of the fire damper (barrier contractor).
3. The damper shall be fitted centrally in the wall opening.
4. The tabs on the factory fitted galvanized steel expansion frame shall be bent out to tie the damper into the wall with the penetration seal.
5. The "Penetration Seal" must have a structural and fire rated compatibility with both the barrier and the damper and have sufficient strength to retain the fire damper within the wall in a fire situation. (4:1 Mortar Mix).
6. The Mortar Mix will be applied up to the installation frame face, take care not to leave any air pockets in the mix.
7. The ductwork connecting to the damper spigots must overlap by 40mm, leaving a 10mm clearance for any duct expansion in a fire situation.
8. All ductwork connections must be sealed with an approved ductwork sealer, and fixed with low resistance fixings such as: aluminium alloy rivets or nylon bolts.
9. All connecting ductwork must be independently supported within 1meter of the connections.
10. An Access cover should be fitted on the appropriate side of the barrier to enable inspections and maintenance work.



Maintenance Procedure

- These dampers are installed as a life-safe product and will require regular physical and visual examinations. It is essential that the assembly is kept in a clean, dust free condition at all times.
- It is essential that an access door has been provided in the adjacent ductwork to facilitate the inspection and maintenance.
- Ensure that no physical restriction of the blades has occurred during the installation process.
- Remove any dirt or debris built up in the damper, apply a little WD lubricant or light oil, any excessive oils should be wiped away.
- Check the operation of any ancillary products that may be fitted.
- Examine the fusible link to ensure that no corrosion has occurred and that the plates are free from distortion and are in good condition to operate when required.
- Close the blade pack by manual operation and examine the blades to ensure;
- They are in the fully closed position and have located in the ramps.
- They are all position in the frame correctly i.e. square to the frame.
- They are all in a clean condition.
- The period between maintenance checks can best be ascertained by system conditions or as directed by local regulations for ventilation plant and ancillaries, but should not exceed a maximum interval in excess of twelve months.
- The report should be completed following the Maintenance Procedure included within this document.

Advanced Air UK Ltd

Burrell Way
 Thetford
 Norfolk IP24 3QU
 Tel: 01842 765657
 Email: Projects@advancedair.co.uk



0160 CE Series Smoke Fire Damper

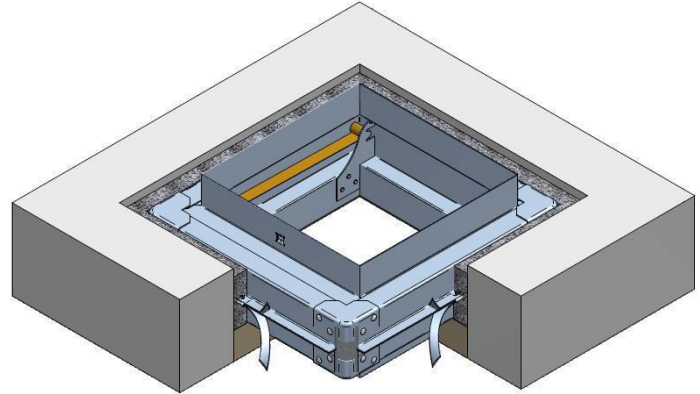
0160-01 Concrete floor HEVAC (2 hour E120)

Available as single section installation only

Pre Installation Notes

1. Ensure that the damper is kept in a clean dry environment and that there is no damage to the damper.

Installation Procedure



1. The opening in the floor slab must be cleaned, free of dust and any other contaminants which could impair the mortar adhesion. A clearance gap 25mm (min) to 50mm (max) must be maintained around the expansion frame of the fire damper (barrier contractor).
2. The tabs on the factory fitted galvanized steel expansion frame will be bent out to tie the damper into the floor with the penetration seal.
3. The damper should be fitted flush to the top edge of the opening.
4. The underside of the damper should be shuttered up with 25mm rigid rock wool Firebatt Min Density 140kg/m³ cut to interference fit and supported from below, this must be left in situ.
5. The "Penetration Seal" must have a structural and fire rated compatibility with both the barrier and the damper and have sufficient strength to retain the fire damper within the floor slab in a fire situation. (4:1 Mortar Mix).
6. Pour the Mortar Mix into the gap between damper and floor slab to half way and ensure all the small gaps are filled, leaving no air pockets. Then pour the top layer up to the installation frame face smoothing off if necessary.
7. The ductwork connecting to the dampers long spigot must overlap by 40mm. The ductwork connecting to the short spigot must overlap the spigot by 40mm, leaving 10mm clearance for any duct expansion in a fire situation.
8. All ductwork connections must be sealed with an approved ductwork sealer, and fixed with low resistance fixings such as: aluminium alloy rivets or nylon bolts.
9. All connecting ductwork must be independently supported within 1meter of the connections.

Maintenance Procedure

- These dampers are installed as a life-safe product and will require regular physical and visual examinations. It is essential that that the assembly is kept in a clean, dust free condition at all times.
- It is essential that an access door has been provided in the adjacent ductwork to facilitate the inspection and maintenance.
- Ensure that no physical restriction of the blades has occurred during the installation process.
- Remove any dirt or debris built up in the damper, apply a little WD lubricant or light oil, any excessive oils should be wiped away.
- Check the operation of any ancillary products that may be fitted.
- Examine the fusible link to ensure that no corrosion has occurred and that the plates are free from distortion and are in good condition to operate when required.
- Close the blade pack by manual operation and examine the blades to ensure;
- They are in the fully closed position and have located in the ramps.
- They are all position in the frame correctly i.e. square to the frame.
- They are all in a clean condition.
- The period between maintenance checks can best be ascertained by system conditions or as directed by local regulations for ventilation plant and ancillaries, but should not exceed a maximum interval in excess of twelve months.
- The report should be completed following the Maintenance Procedure included within this document.