

General Description

The 0160 series curtain fire dampers are designed to stop the spread of fire through ductwork, walls and floors in ventilation systems. When the fusible link reaches elevated temperature, it releases interlocking blades closing the damper by locking into the blade ramp sealing the damper closed.

With the introduction of Construction Product Regulation on the 1st July 2013 all fire dampers are required to meet the product standard BS EN 15650. To achieve this standard the damper has to be tested to BS EN 1366-2 dynamic fire test. The dampers are then classified to BS EN 13501-3 that clearly states the integrity of the damper also in the way that damper was installed in the furnace. The standard also now included testing of fusible link to ISO 10294-4 that comprises of a dynamic release and holding tests.

The biggest change in the current Building regulations Part B and Section 7 and the CPR is fire dampers have to be CE marked and that the dampers must be installed as tested.

The maximum single section unit tested was 1000mm x 1000mm for both the HEVAC and AFS frame. For larger sizes they would be supplied as multi-section units however as the CE requirement is within the Extended Fields of Application document that has not been published means there is no harmonized standard for multi section. Therefore there is no requirement to CE label the multi section units.



(PATENT PENDING)

Construction Product Regulation

To meet the requirements of the Construction Products Regulation 1st July 2013 Advanced Air fire dampers meet the requirements of the Product Standard BS EN 15650 with a classification under BS EN 13501-3 as stated in our Declaration Of Performance that has been assessed by the notified certification body BRE who have issued a Certificate of Consistency of Performance No: 0832-CPR-P0004.

Installation	Damper/Model	Classification
Blockwork Wall	0160-Standard Fire Damper	E120 (ve i<—>o)
Drywall	0160-Standard Fire Damper	E120 (ve i<—>o)
Blockwork Wall	2550- Motorised Fire Dampers	E120 (ve i<—>o) s
Drywall	2550- Motorised Fire Dampers	E120 (ve i<—>o) s



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PATENT APPLIED FOR



0160 Series Curtain Fire Dampers



DECLARATION OF PERFORMANCE

Fire Damper
0160 series

Advanced Air (UK) Ltd
Burrell Way
Thetford
Norfolk IP24 3QU UK

The notified body 0832 – BRE carried out the initial inspection of the manufacturing plant and of the production control as well as the continuous surveillance and evaluation of the factory production control according to **System 1** of the Construction Products Regulation. Certificate of Constancy of Performance 0832-CPR-P0004 was issued on 21st January 2014.

Essential Characteristics		Performance	Harmonised Technical Specification	
Nominal activation conditions/sensitivity according to BS ISO 10294-4: - Sensing element load bearing capacity - Sensing element response temperature		Passed	BS EN 15650:2010	
Response delay (response time) according to BS EN 1366-2: - Closure time		Passed		
Operational reliability according to BS EN 1366-2: - Cycling		Passed		
Durability of response delay according to BS ISO 10294-4: - Sensing element response to temperature and load bearing capacity		Passed		
Durability of operational reliability (opening and cycling) according to BS EN 15650-2010		Passed		
Protection against corrosion according to BS EN 60068-2-52		Passed		
Fire resistance				
Size	Supporting Construction	Installation Method		Classification EN 15301-3
200 x 200 to 1000 x 1000[mm]	Concrete floor / ceiling slab	HEVAC	E120 (ho i←→o)	
	Block work wall	HEVAC	E120 (ve i←→o)	
	Block Work Wall	AFS	E120 (ve i←→o)	
	Partition wall	AFS	E120 (ve i←→o)	
	Partition wall	AFS	E80 (ve i←→o)	

The performance of the product 0100 Fire Damper is in conformity with declared performance outlined above. This Declaration of Performance is issued under the sole responsibility of the manufacturer.

Signed on behalf of the manufacturer by:

Andrew Sargent
General Manager 22nd January 2014
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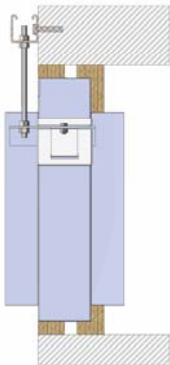
Due to continuous product development Advanced Air (U.K.) Ltd reserves the right to change any information without prior notice.

Date	Issue	Spec. No.	Page No.
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Product Details

Blades:	Material: 0.8 mm galvanised mild steel
Casing:	Spigot Length: 50mm Case length: 180mm Material: 1.2mm galvanised mild steel.
Springs:	Constant force springs made from heat treated stainless steel coil.
Ramps:	1.2 mm galvanised mild steel.
Fusible Link:	1.0 mm Brass soldered for release at 58°. Clover hooks used for retaining the blades and the link.
Performance:	Damper suitable for low, medium and high velocity casing (ductwork) leakage. Spigotted Type – Class C DW144
Further Options:	Easy maintenance link (EML) Release Mechanism Visual Positioner Indicator (VPI) Micro switches
Note:	Size limitations apply to some options, refer to chart

New AFS installation for Blockwork and Drywalls - (PATENT PENDING)



For Blockwork walls we had to ensure there was no added cost to the installation. The unit design allowed the fixing bracket to be on one side. In testing the drop rods were connected to a bracket attached directly to the wall therefore offering a simple low cost site installation

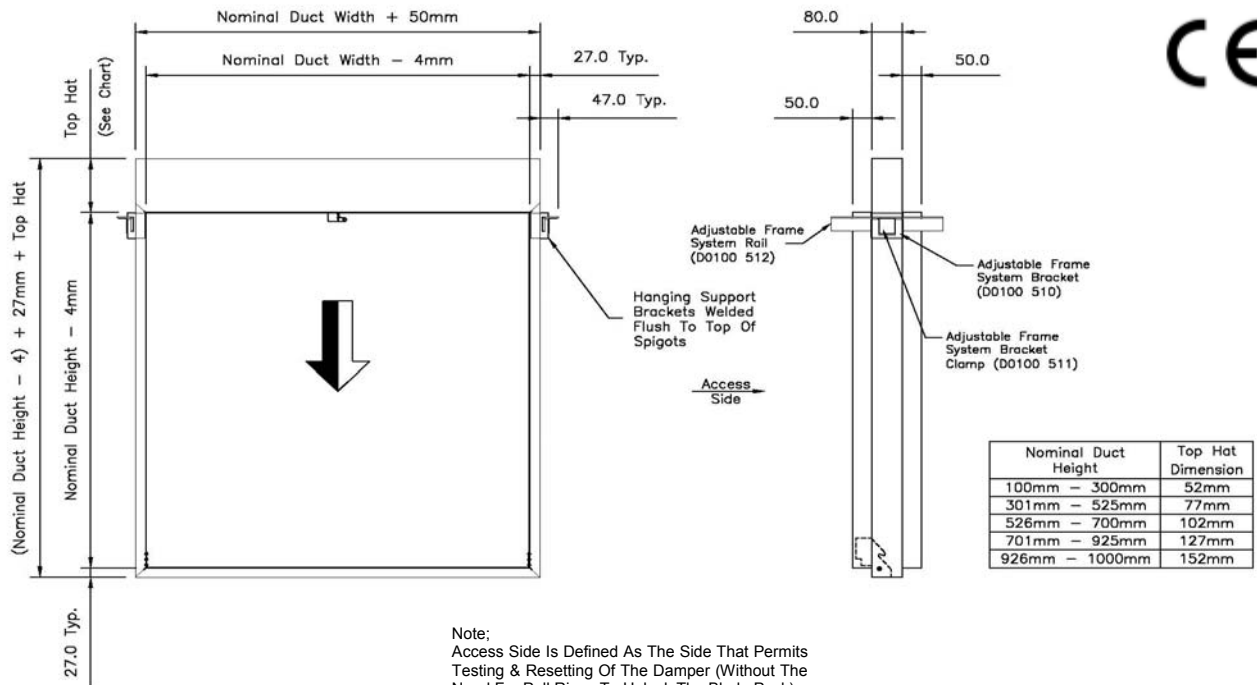


For drywall installation the option currently available is drop rods positioned within the wall the fixing to the AFS brackets. Although we have indicative tested with the drop rods external to the wall we have yet to test the damper to EN1366-2.

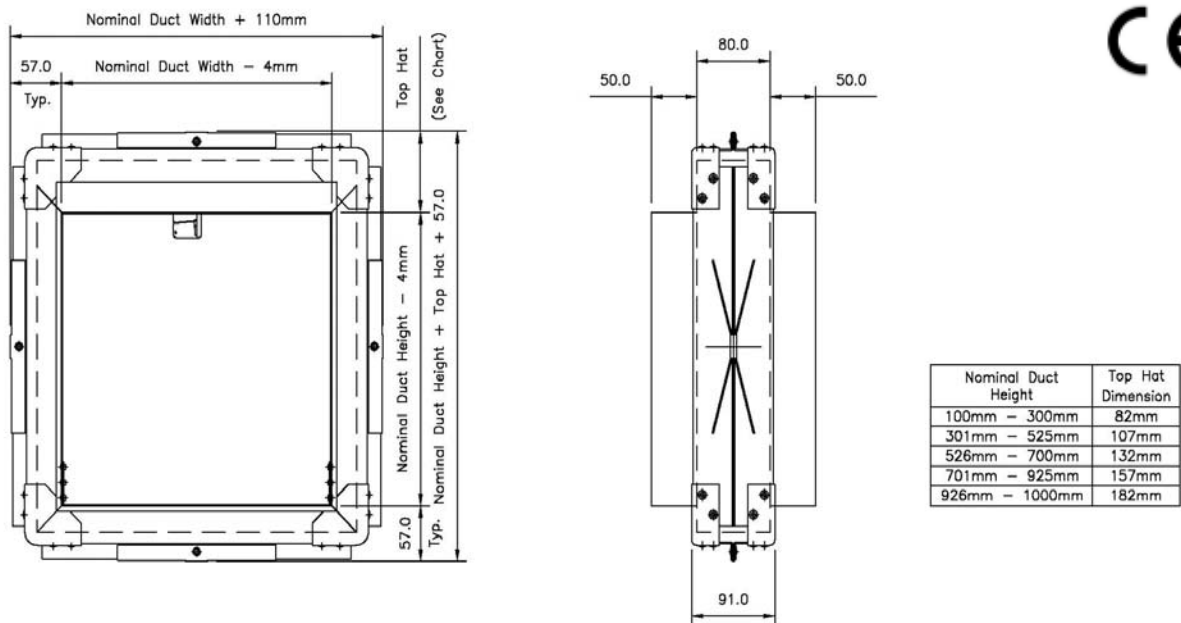
Fire Damper Testing Details

Test House & Test	Fire Test	Integrity	Classification BS EN 13501-3
Warrington No: 110372 Effectis No: R0345a 0160 HEVAC Frame In Blockwork Wall	BS EN 1366-2	132 min	E120 (ve i↔o)
Efectis - No. R0169a, R0169d 0160 HEVAC Frame In Floor	BS EN 1366-2	132 min	E120 (ho i↔o)
Effectis No: R0320a, R0320b 0160 AFS in Blockwork Wall	BS EN 1366-2	132 min	E120 (ve i↔o)
Effectis No: R0279a, R0279b 0160 AFS in Plasterboard	BS EN 1366-2	60 min	E60 (ve i↔o)
Effectis No: R0319a, R0319b 0160 AFS in Plasterboard	BS EN 1366-2	132 min	E120 (ve i↔o)

Sizing Information — 0160 Damper With Rectangular Spigot & AFS Hanging System



Sizing Information — 0160 Damper With Rectangular Spigot & HEVAC/HVCA Installation Frame



Minimum and Maximum Dimensions

SINGLE SECTION DUCT SIZE - <i>Width x Height</i>				
ACCESSORIES		0 16 0 - 10	0 16 0 - 2 0	0 16 0 - 3 0
Standard Link Only	Min. (mm)	100 x 100	100 Dia.	100 x 100
	Max. (mm)	1000 x 1000	1000 Dia.	1000 x 1000
EML Only	Min. (mm)	100 x 100	100 Dia.	100 x 100
	Max. (mm)	1000 x 1000	1000 Dia.	1000 x 1000
Standard Link & VPI	Min. (mm)	100 x 100	100 Dia.	100 x 100
	Max. (mm)	1000 x 1000	1000 Dia.	1000 x 1000
Standard Link & Microswitch	Min. (mm)	100 x 100	125 Dia.	125 x 125
	Max. (mm)	1000 x 1000	1000 Dia.	1000 x 1000
EML & VPI	Min. (mm)	125 x 125	125 Dia.	125 x 150
	Max. (mm)	1000 x 1000	1000 Dia.	1000 x 1000
EML & Microswitch	Min. (mm)	150 x 100	125 Dia.	150 x 100
	Max. (mm)	1000 x 1000	1000 Dia.	1000 x 1000
Standard Link, Microswitch & VPI	Min. (mm)	175 x 150	175 Dia.	150 x 150
	Max. (mm)	1000 x 1000	1000 Dia.	1000 x 1000
EML, Microswitch & VPI	Min. (mm)	150 x 150	150 Dia.	175 x 150
	Max. (mm)	1000 x 1000	1000 Dia.	1000 x 1000

Accessories Min & Max Dimensions

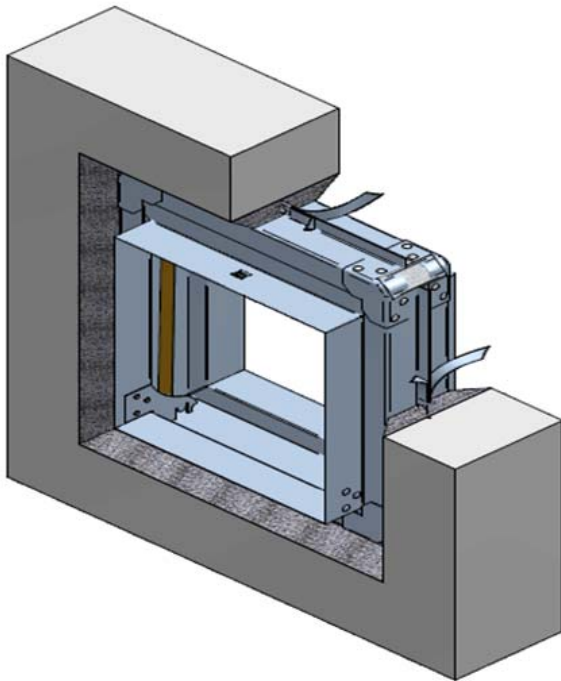
SINGLE SECTION DUCT SIZE (<i>Width x Height</i>)		
ACCESSORIES		0 16 0
Standard Link Only	Min. (mm)	100 x 100
	Max. (mm)	1000 x 1000
EML Only	Min. (mm)	100 x 100
	Max. (mm)	1000 x 1000
Standard Link & VPI	Min. (mm)	100 x 100
	Max. (mm)	1000 x 1000
Standard Link & Microswitch	Min. (mm)	100 x 100
	Max. (mm)	1000 x 1000
EML & VPI	Min. (mm)	125 x 125
	Max. (mm)	1000 x 1000
EML & Microswitch	Min. (mm)	150 x 100
	Max. (mm)	1000 x 1000
Standard Link, Microswitch & VPI	Min. (mm)	175 x 150
	Max. (mm)	1000 x 1000
EML, Microswitch & VPI	Min. (mm)	150 x 150
	Max. (mm)	1000 x 1000

Weights

		NETT WEIGHTS - All weights are approximate and in Kilograms								
		Width (mm)								
		150	200	300	400	450	600	750	900	1000
Height (mm)	200	2	4	4	6	6	10	12	12	16
	300	4	4	6	8	8	10	14	14	18
	450	6	6	8	8	10	14	14	16	20
	600	8	8	12	14	14	16	18	20	24
	750	8	10	12	16	16	18	20	22	24
	900	12	12	14	16	16	20	22	24	28
1000	16	16	18	20	20	24	24	28	32	

- The nett weights above are relevant to dampers using AFS hanging system.
- Where a HEVAC/HVCA installation frame is included, a multiplier of 1.5 should be utilised.

HEVAC Wall Installation - E120



Pre Installation Notes

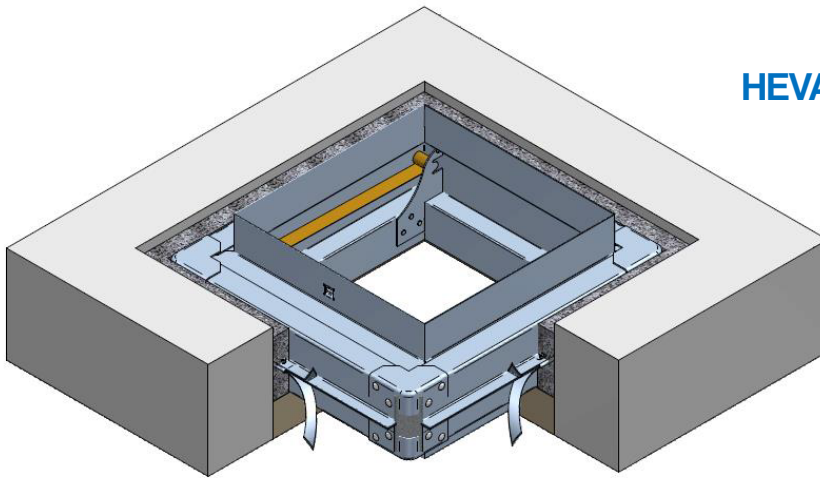
1. Ensure that the damper is kept in a clean dry environment and that there is no damage to the damper.
2. Remove all packaging and transit ties before installation.

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 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.



HEVAC Floor Installation - E120

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.

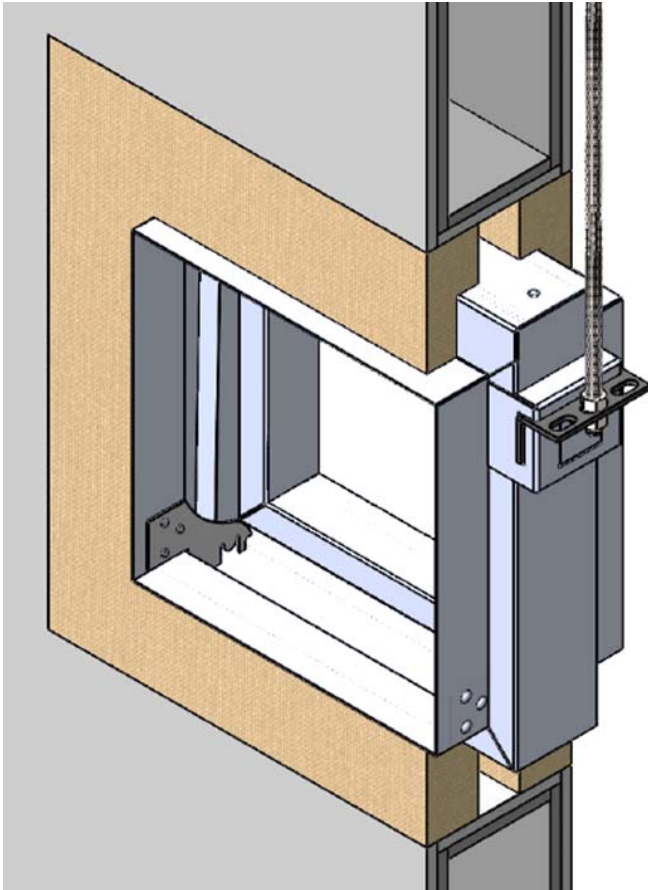
Installation Procedure

1. 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.

AFS Drywall Installation
1 Hour - E60
(PATENT PENDING)



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.

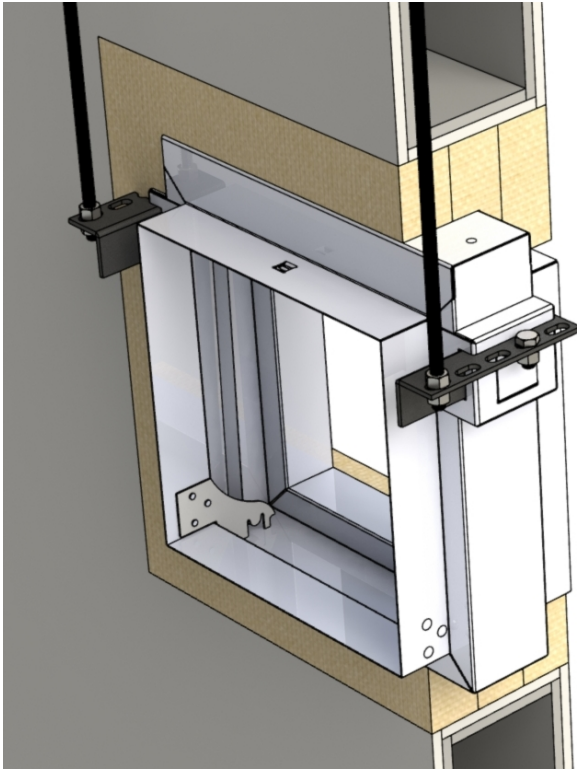
Installation Procedure

1. The Drywall which will consist of two layers of 15mm plasterboard each side of steel studwork with a 50mm Rockwool insulation. The opening will be a letterbox construction with overlapping layers of plasterboard with an opening clearance of 25mm (min) - 100mm (max) all around the fire damper casing (barrier contractor).
2. Two M10 drop rods per fire damper shall be fitted centrally within the drywall fixed by steel anchors into the slab or soffit above.
3. The damper should be fitted centrally in the wall opening and hung by drop rods using the slotted rail and bolted tight keeping the damper in the centre of the wall opening.
4. The gap between the damper and the wall opening will need filling in with 140kg/m3 50mm Firebatt cut to interference fit and pushed in place.
5. The ductwork connecting to the damper spigots must overlap by 40mm, leaving a 10mm clearance for any duct expansion in a fire situation.
6. 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.
7. All connecting ductwork must be independently supported within 1meter of the connections.
8. 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 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.

AFS Drywall Installation
1 Hour - E60
(PATENT PENDING)



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.

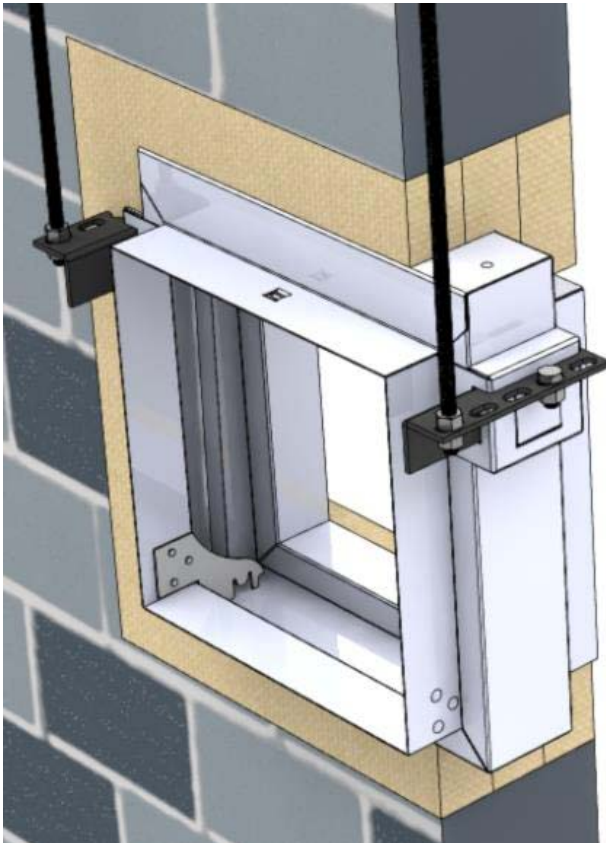
Installation Procedure

1. The Drywall which will consist of two layers of 15mm plasterboard each side of steel studwork with a 50mm Rockwool insulation. The opening will be a letterbox construction with overlapping layers of plasterboard with an opening clearance of 25mm (min) - 100mm (max) all around the fire damper casing (barrier contractor).
2. Two M10 drop rods per fire damper shall be fitted on one side of the drywall fixed by steel anchors into the slab or soffit above.
3. The damper should be fitted flush to the one side of the wall opening and hung by drop rods using the slotted rail and bolted tight keeping the damper within the wall opening.
4. The gap between the damper and the wall opening will need filling in with 140kg/m³ 50mm Firebatt cut to interference fit and pushed in place.
5. The ductwork connecting to the damper spigots must overlap by 40mm, leaving a 10mm clearance for any duct expansion in a fire situation.
6. 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.
7. 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.

**AFS Blockwork Installation -
2 Hour - E120
(PATENT PENDING)**



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 and opening clearance for the fire damper and Firebatt.
2. The opening in the wall must be cleaned, free of dust and any other contaminants which could impair the acrylic sealant. A clearance gap of 25mm (min) - 100mm (max) gap for the Firebatt must be maintained around the fire damper (barrier contractor).
3. The damper shall be mounted so that the supported side of the damper is flush with the wall opening. It shall be hung by M10 drop rods using the slotted rail and bolted tight to steel anchors in the slab or soffit above.
4. The gap between the damper and the wall opening will need filling in with 3 layers of 140kg/m³ 50mm Firebatt cut to interference fit and pushed in place.
5. All joints and gaps shall be sealed using intumescent Acrylic Sealant.
6. The ductwork connecting to the damper spigots must overlap by 40mm, leaving a 10mm clearance for any duct expansion in a fire situation.
7. 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.
8. All connecting ductwork must be independently supported within 1meter of the connections.
9. An Access cover should be fitted on the appropriate side of the barrier to enable inspections and maintenance work.

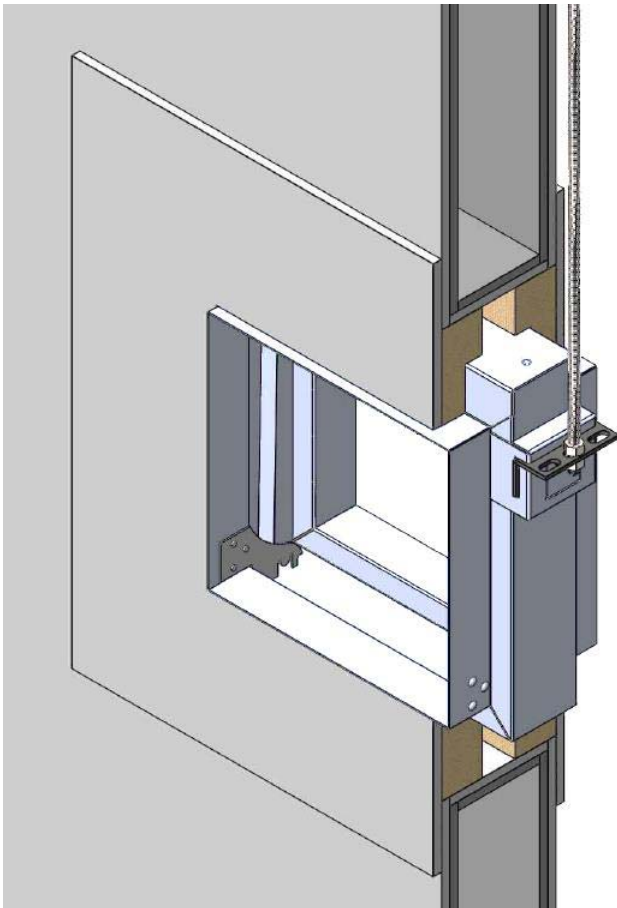
Maintenance Procedure

- These dampers are installed as a life-safe product and will require regular physical and visual examinations. It is essential that 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.

AFS Drywall Installation

2 Hour - E120

(PATENT PENDING)



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. The Drywall which will consist of two layers of 15mm plasterboard each side of steel studwork with a 50mm Rockwool insulation. The opening will be a letterbox construction with overlapping layers of plasterboard with an opening clearance of 25mm (min) - 100mm (max) all around the fire damper casing (barrier contractor).
2. Two M10 drop rods per fire damper shall be fitted centrally within the drywall fixed by steel anchors into the slab or soffit above.
3. The damper should be fitted centrally in the wall opening and hung by drop rods using the slotted rail and bolted tight keeping the damper in the centre of the wall opening.
4. The gap between the damper and the wall opening will need filling in with 140kg/m³ 50mm Firebatt cut to interference fit and pushed in place.
5. A closure face board of 15mm plasterboard is screwed to each side of the wall, it must fully cover the Firebatt and overlap the opening by 50mm.
6. The ductwork connecting to the damper spigots must overlap by 40mm, leaving a 10mm clearance for any duct expansion in a fire situation.
7. 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.
8. 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.



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0160 Series Curtain Fire Dampers

PATENT APPLIED FOR

Installation Safety Information

The installation of Fire Dampers must be done by competent trained persons who are familiar with the type of product. They should follow the following essential safety practices:

- Wear appropriate PPE gloves, footwear, safety hat etc. comply with the safety policies of the particular site.
- Ensure that access to the installation position has been made safe and is suitable for the handling of the damper.
- Use correct manual handling techniques when moving the damper, use team lifting techniques when installing large dampers.
- If lifting equipment is used; inspect the condition of the equipment before using it.

Due to continuous product development Advanced Air (U.K.) Ltd reserves the right to change any information without prior notice.

Date	Issue	Spec. No.	Page No.
10/03/14	Rev 3	CE –FD Sub	12

Advanced Air Fire Damper Certificate

DW 145 Inspection & Handover Check Sheet to be completed by the installer with a separate certificate for each damper.

No:	Question	Guidelines	Tick
1	Are the dampers the correct type	Fire Damper Model 0160 Fire Smoke Damper Model 2550	
2	Are the dampers correctly identified?	Identification label clearly shows the damper individual reference number.	
3	Are the dampers located correctly?	The damper position matches the position as detailed on the manufacturer's installation instructions.	
4	Have supports for both the damper and adjacent ductwork been installed in accordance with the approved method?		
5	Are the dampers fitted in the correct orientation?	The dampers are installed the correct way up relative to airflow and access.	
6	Is access, through the ductwork, to the damper unobstructed?	There is unobstructed space to allow safe access to damper, also through ceiling void and adjacent services	
7	Confirm the space around the damper has not been used for the passage of other services.	The presence of other services will invalidate the installation method	
8	Using the access opening provided, confirm that the damper has been left in the open position.		
9	Release damper catch to simulate the thermal release mechanism (damper drop test).	Ensure the blade operation is free from interference	
10	Check damper blades for damage.	With the damper in the closed position inspect for damage	
11	Re-set damper and replace access panel.	After resetting check that if supplied the visual position indicator is correct	
12	Is the fire barrier and penetration seal complete?	Confirm if at handover if installation is complete if no then other trades will be required to finish.	Yes No
13	Handover damper installation for commissioning.	Obtain relevant acceptance of the damper installation form the nominated person responsible.	

Project		Installer Name	
Damper Id No:		Company	
Location		Date	
Type	I hereby confirm the damper detailed has been installed and tested according to the manufacturer's recommendations		
Model No:		Signature	

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0160 Series Curtain Fire Dampers

PATENT APPLIED FOR

Maintenance Report

Operation / Task	Result
Damper reference	
Date of inspection	
Check actuator wiring for damage (where applicable)	
Check end-switch wiring for damage (where applicable)	
Check damper for cleanliness and clean where necessary	
Check the condition of the blades and seals, rectify and report where necessary	
Confirm the safety closure operation of the fire damper according to the manufacturer's instructions	
Confirm operation of the damper to OPEN and CLOSE by use of physical observation of the damper, rectify and report where necessary	
Confirm operation of OPEN and CLOSED end-switches, rectify and report (where necessary)	
Confirm that the damper fulfills its function as part of the control system (where necessary)	
Confirm that the damper is left in its normal working position	

Due to continuous product development Advanced Air (U.K.) Ltd reserves the right to change any information without prior notice.

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