ROCKWOOL®

FIREPRO®

Firestopping Standard Details

JAN 2017

CREATE AND PROTECT®

The ROCKWOOL FIREPRO® range of products provides firestopping and fire resistance throughout the whole construction process; intended to make buildings and their inhabitants safer in the event of fire.

Beyond ROCKWOOL insulation's inherent fire resistant qualities, our specialist range of products help architects, contractors and developers conform to current fire regulations.

Our range of fire resistance products cater for most general purpose and specialty building applications:

- Structural protection
- Penetration seals
- Joints
- Cavity barriers
- Heating, ventilation and air conditioning
- Process pipes.

Interested?

For further information on ROCKWOOL FIREPRO® products and solutions, contact the Technical Solutions Team on 01656 862 621 or email: info@rockwool.co.uk

Visit www.rockwool.co.uk to view our complete range of products and services

Contents

INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Cut Rockwool ablative coated batt to the size and shape required to fit the aperture ensuring the batt will make a tight fit with all edges of the aperture.

3. Cut rectangular holes from the coated batt to accommodate the cable tray or ladder containing cables.

4. Cut the coated batt across its width at the mid-point of each rectangular hole to enable batt to be fitted into the aperture.

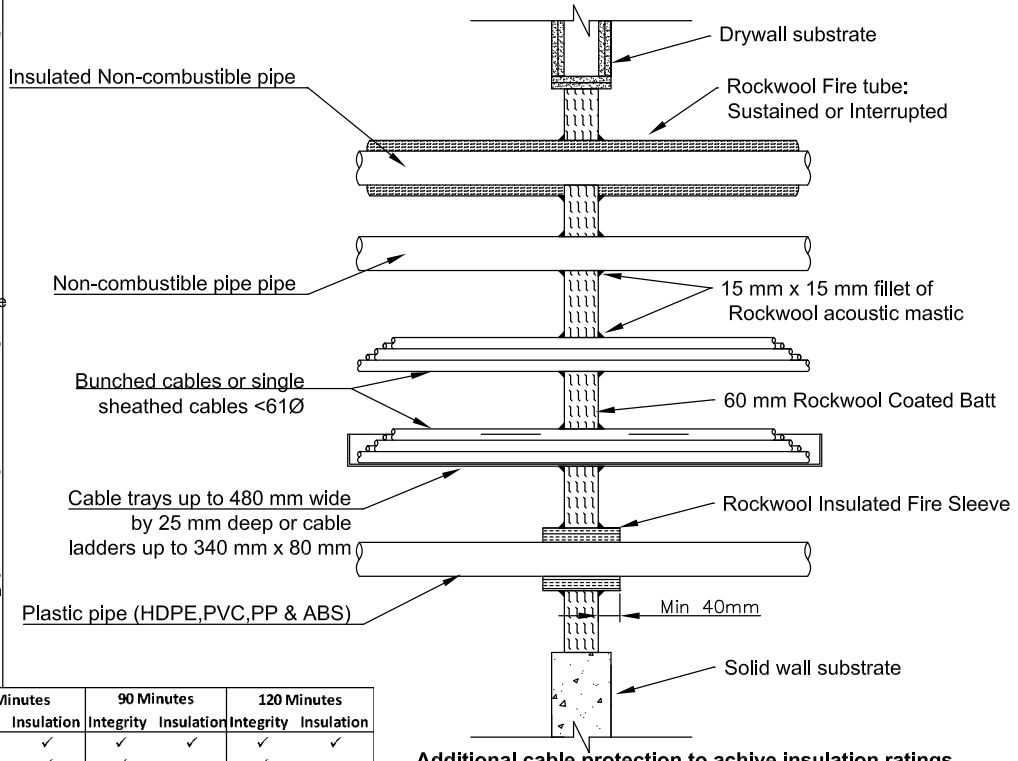
5. Apply Rockwool acoustic intumescent sealant to all edges of the batt, ensuring that an even cover is achieved over the entire thickness of the batt. This should include the outer edges of the batt and the edges of the cut made across the batt to allow fitting into the aperture. There is no requirement to apply sealant to the edges of the holes cut to accommodate each cable tray or ladder.

6. Insert the batt into the aperture.

7. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, around the perimeter of the batt ensuring that all gaps between the batt and surrounding edges are fully filled.

8. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, where the cables pass through the batt. Ensure that the sealant fully encloses each cable within the tray or ladder and that all gaps are fully filled.

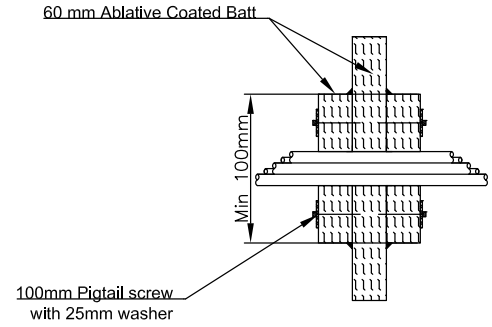
9. Repeat step 7 and 8 on the other side of the batt



Service type	60 Minutes		90 Minutes		120 Minutes	
	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation
Blank seal up to 1200 mm x 600 mm	✓	✓	✓	✓	✓	✓
Blank seal up to 2.4 m x 2.88 m	✓	✓	✓		✓	
Single cables ≤61 mm	✓	✓	✓C	✓C		
Single cables 61 - 80 mm	✓	✓*				
bunched cables ≤100 mm	✓	✓				
Cable trays ≤480 mm	✓	✓	✓C	✓C		
Steel pipes ≤168 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓
Steel pipes ≤168 Unlagged	✓		✓		✓	
Copper pipes ≤ 108 mm lagged with Fire Tube	✓	✓	✓		✓	
Copper pipes ≤ 108 mm unlagged	✓		✓		✓	
Phenolic Insulation around metallic pipes (Ultra Wrap)	✓		✓		✓	
Circular steel duct ≤ 360 mm lagged with Fire Duct	✓	✓	✓	✓	✓	✓
Square steel duct ≤ 400 mm lagged with Fire Duct	✓	✓	✓	✓	✓	✓
PVC & HDPE Pipes ≤ 40 mm with High Pressure mastic	✓	✓				
PVC, PVCu, PP & HDPE ≤ 160 mm with Fire Sleeve	✓	✓				
PVC ≤ 110 mm with Fire Sleeve	✓	✓	✓	✓	✓	✓
ABS ≤ 110 mm with Fire Sleeve	✓	✓	✓		✓	
Fire Damper ≤ 1000 x 1000 mm	✓		✓		✓	

* With additional protection of patress piece of coated batt Min 100mm around the cable (Min 4 pigtail screw fixings)
✓C using 1 mm thick coatback along 100 mm of service item either side of the seal

Additional cable protection to achive insulation ratings



Standard Detail - 60mm Coated Batt Single Layer

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

Flexible wall construction must be installed in accordance with the manufacturer's guidelines with the aperture being fully framed and lined out. The Wall construction should be of a minimum thickness of 130 mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the coated batt.

For specific installation details not cover by this detail (such as Damper installation) then please consult the relevant Standard detail or the Rockwool Fire stopping Technical manual.

Integrity Performance	Insulation Performance
Up to 120 Minutes	Up to 120 Minutes

ROCKWOOL®
TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

Project Title

Drawing Title
60mm Ablative Coated Batt: Single Layer Application Range

Scale	Date
NTS	18.01.2014
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-106-RDW	Rev.: 02

Standard Detail - 60mm Coated Batt Double Layer

INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Cut Rockwool ablative coated batt to the size and shape required to fit the aperture ensuring the batt will make a tight fit with all edges of the aperture.

3. Cut rectangular holes from the coated batt to accommodate the cable tray or ladder containing cables.

4. Cut the coated batt across its width at the mid-point of each rectangular hole to enable batt to be fitted into the aperture.

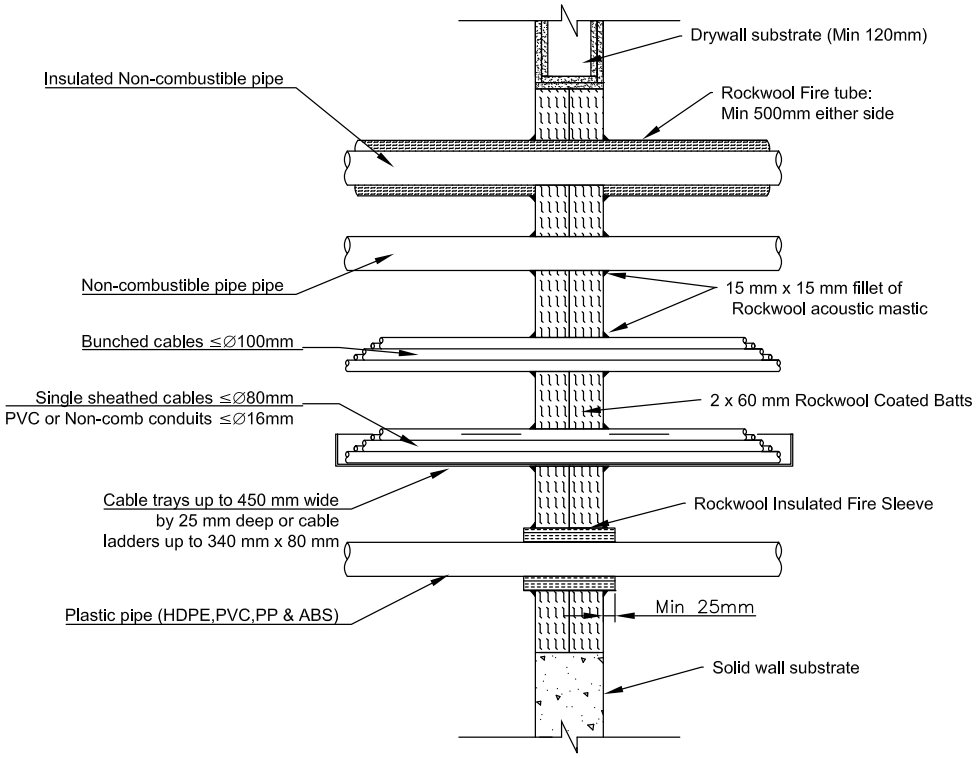
5. Apply Rockwool acoustic intumescent sealant to all edges of the batt, ensuring that an even cover is achieved over the entire thickness of the batt. This should include the outer edges of the batt and the edges of the cut made across the batt to allow fitting into the aperture. There is no requirement to apply sealant to the edges of the holes cut to accommodate each cable tray or ladder.

6. Insert the batt into the aperture.

7. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, around the perimeter of the batt ensuring that all gaps between the batt and surrounding edges are fully filled.

8. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, where the cables pass through the batt. Ensure that the sealant fully encloses each cable within the tray or ladder and that all gaps are fully filled.

9. Repeat step 7 and 8 on the other side of the batt seal

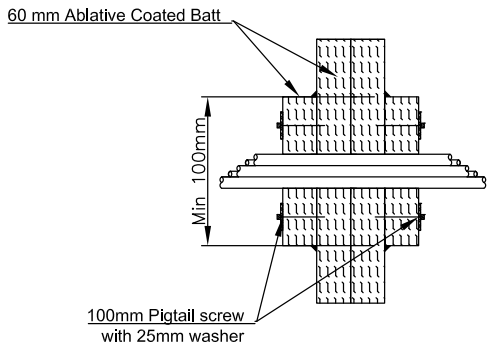


Service type	60 Minutes		90 Minutes		120 Minutes		240 Minutes	
	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation
Blank seal up to 1200 mm x 600 mm	✓	✓	✓	✓	✓	✓	✓	
Blank seal up to 1200 mm x 600 mm (95mm Air gap)	✓	✓	✓	✓	✓	✓	✓	✓
Blank seal up to 2.4 m x 2.88 m	✓	✓	✓		✓			
bunched cables ≤100 mm	✓	✓	✓	✓	✓			
0-15mm sheathed cables	✓	✓	✓	✓*	✓			
16-21mm sheathed cables	✓	✓	✓	✓*	✓			
22-50mm sheathed cables	✓	✓	✓		✓			
50-80mm sheathed cables	✓	✓	✓	✓*	✓			
Steel pipes ≤168 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	
Steel pipes ≤168 Unlagged	✓		✓		✓		✓	
Copper pipes ≤ 108 mm with Fire Tube (95mm Air gap)	✓	✓	✓	✓	✓	✓	✓	
Copper pipes ≤ 108 mm unlagged	✓		✓		✓		✓	
Phenolic Insulation around metallic pipes (Ultra Wrap)	✓		✓		✓			
Circular steel duct ≤ 360 mm lagged with Fire Duct#	✓	✓	✓	✓	✓	✓		
Square steel duct ≤ 400 mm lagged with Fire Duct#	✓	✓	✓	✓	✓	✓		
PVC & HDPE Pipes ≤ 40 mm with High Pressure mastic	✓	✓						
PVC pipes ≤ 160 mm & HDPE ≤ 110 mm with Fire Sleeve	✓	✓	✓	✓	✓	✓		
HDPE pipes ≤ 160 mm with Fire Sleeve	✓	✓						
ABS ≤ 110 mm with Fire Sleeve	✓	✓	✓		✓			
Fire Damper ≤ 1000 x 1000 mm	✓		✓		✓			

See Rockwool Technical manual for specific sizes and Maximum Fire ratings

* With additional protection of patress piece of coated batt Min 100mm around the cable (Min 4 pigtail screw fixings)

Additional cable protection to achive insulation ratings



The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

Flexible wall construction must be installed in accordance with the manufacturer's guidelines with the aperture being fully framed and lined out. The Wall construction should be of a minimum thickness of 120 mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the coated batt.

For specific installation details not cover by this detail (such as Damper installation) then please consult the relevant Standard detail or the Rockwool Fire stopping Technical manual.

Integrity Performance	Insulation Performance
Up to 240 Minutes	Up to 240 Minutes

ROCKWOOL

TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

Project Title

Drawing Title

60mm Ablative Coated Batt: Double Layer Application Range

Scale	Date
NTS	11.01.2014
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-107-RDW	Rev.

Standard Detail - 60mm Coated Batt Single Layer Horizontal

INSTALLATION NOTES

1. Make sure that the area within the aperture is clear of debris and remove any dust from the edges. Install steel support angle around opening.

2. Cut Rockwool ablative coated batt(s) to the size and shape required to fit the aperture ensuring the batt will make a tight fit with all edges of the aperture.

3. Cut rectangular holes from the coated batt to accept the damper

4. Cut the coated batts as necessary to allow fitting into the aperture around damper.

5. Where the coated batt will contact the surrounding substrate, apply rockwool acoustic intumescent sealant to the outer edges of the batt. Do not apply to the edges that will be in contact with the damper.

6. Where two coated batts will be in contact, use Rockwool FIREPRO GLUE as the joint adhesive, ensuring an even cover is provided over the entire thickness of both batt edges.

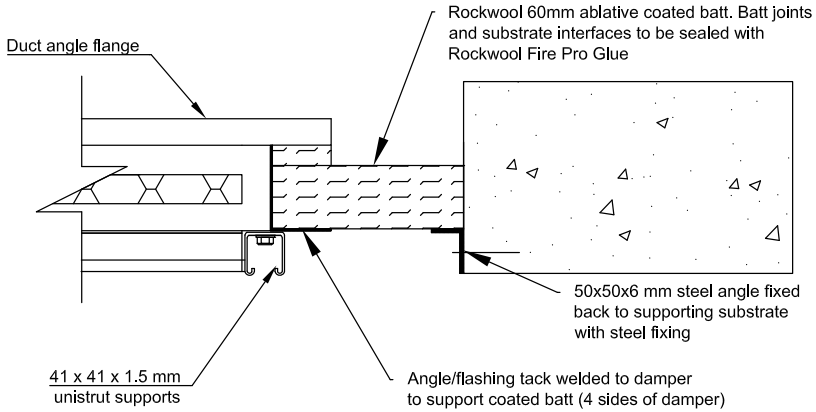
7. Insert the cut batt around the damper and against the damper front flange until the aperture is completely filled and a tight seal is achieved.

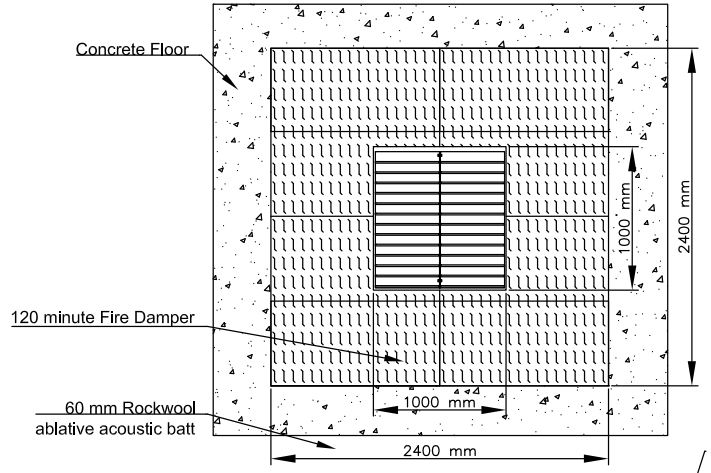
8. Cut packer pieces of coated batt, minimum 60mm x 20mm, and locate these around the damper against the rear surface (Non-Access side) of the main coated batt seal. (If necessary, a bead of sealant may be used to hold the packer pieces to the main coated batt seal until the retaining angles are installed).

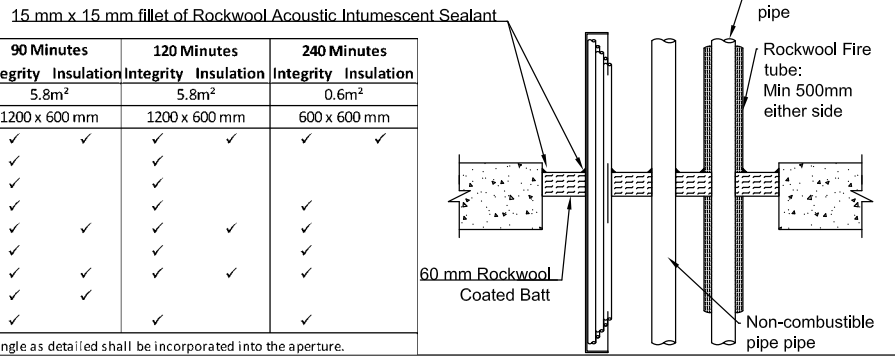
9. Using steel rivets or self-tapping screws, fix the 4 rear flange angles to the non-access side of the damper, tight against the exposed face of the packing pieces.

10 Apply beads of Rockwool acoustic intumescent sealant to both sides of the wall, approximately 15mm wide, around the perimeter of the ablative coated batt, ensuring any gaps between the batt and wall edges are fully filled.

11. Allow at least 12 hours for batt penetration seal cure prior to removing any lateral damper supports.







Service type	60 Minutes Integrity	60 Minutes Insulation	90 Minutes Integrity	90 Minutes Insulation	120 Minutes Integrity	120 Minutes Insulation	240 Minutes Integrity	240 Minutes Insulation
Max aperture size m² (120 Min Insulation Performance)*	5.8m²		5.8m²		5.8m²		0.6m²	
Max aperture size Unsupported (Max 120 min Insulation)	1200 x 600 mm		1200 x 600 mm		1200 x 600 mm		600 x 600 mm	
bunched cables ≤60 mm	✓	✓	✓	✓	✓	✓	✓	✓
0-23mm sheathed cables	✓	✓	✓		✓			
Cable trays ≤450 x 25mm	✓	✓	✓		✓			
Steel pipes ≤168 mm unlagged	✓		✓		✓		✓	
Steel pipes ≤168 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	
Copper pipes ≤ 108mm unlagged	✓		✓		✓		✓	
Copper pipes ≤ 108 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	
PVC pipes ≤110mm see Rockwool detail NSD-119	✓	✓	✓	✓				
Fire Damper ≤ 1 x 1 m (Max aperture 2.4m² with Firepro Glu	✓		✓		✓		✓	

*All batt to batt and batt to substrate joints shall be sealed using Firepro glue. Steel support angle as detailed shall be incorporated into the aperture.

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

The Floor construction should be of a minimum thickness of 150 mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the coated batt.

Damper Specific Installation notes

Damper sizes:
Minimum: 100mm x 100mm
Maximum: 1000mm x 1000mm
Damper installation:
In accordance with HVCA document DW/145 and securely supported from cleats either side of wall to manufacturer's recommendations
Floor Construction: 2 hour Fire Resistant Concrete Floor Min 150mm thick

No Insulation performance with a Fire Damper (due to its uninsulated nature)

Integrity Performance	Insulation Performance
up to 240 Minutes	up to 120 Minutes

ROCKWOOL®

TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

Project Title

Drawing Title

60mm Ablative Coated Batt: Single Layer Horizontal Application Range

Scale	Date
NTS	05.02.2014
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-124-RDW	Rev.: 01

INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Install the Rockwool Ablative Coated Batts either vertically or using a stretcher bond pattern up to a maximum aperture size of 1200mm x 20m.

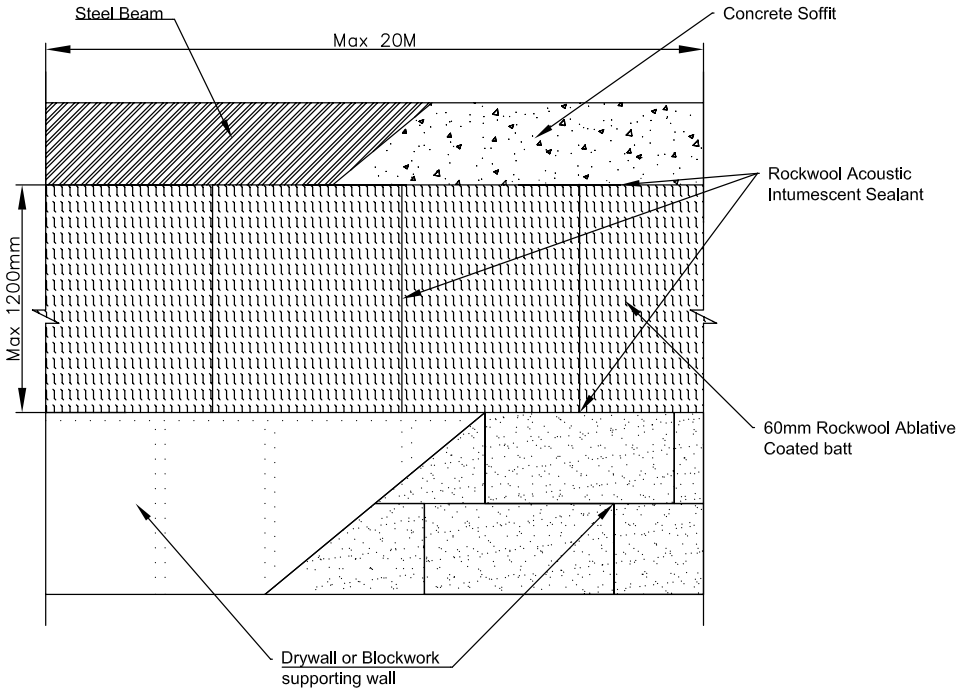
3. Apply Rockwool Acoustic Intumescent Sealant to the outer edges of the batt to seal the joints between batts and supporting substrates.

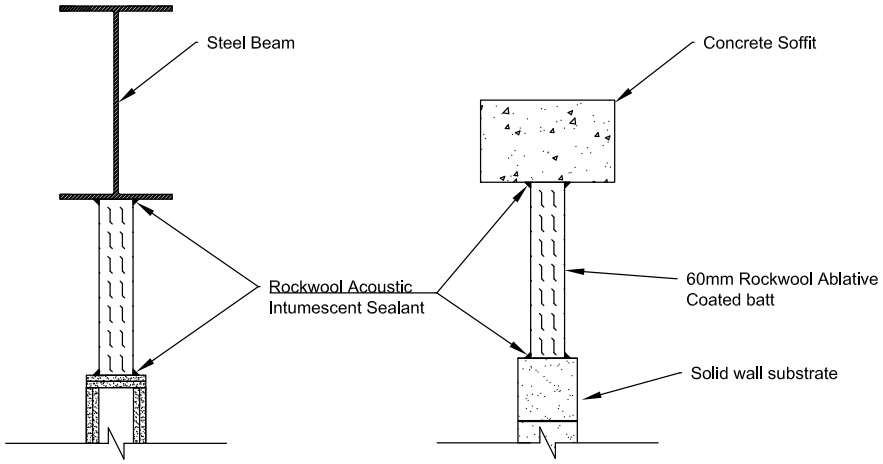
4. Continue installation until the aperture is completely filled.

5. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, around the perimeter of the batt ensuring that all gaps between the batt and surrounding edges are fully filled.

6. Repeat step 5 on the other side of the batt

7. Repair any damage to the coating which may have occurred during installation by brush or spray applying Rockwool ablative coating.





Standard Detail - 60mm Coated Batt Single Layer Head of Wall

Maximum Opening Size: 1200mm High x 20M long

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

Flexible wall construction must be installed in accordance with the manufacturer's guidelines with the aperture being fully framed and lined out. The Wall construction should be of a minimum thickness of 100 mm.

Where the Ablative Coated Batt forms a seal up to a structural beam, which has been protected with intumescent paint then an Insulation rating cannot be given (due to heat transfer through the steel). For applications requiring an insulation rating from the beam then please contact Rockwool Technical for Rockwool Beamclad options.

Integrity Performance	Insulation Performance
Up to 60 Minutes	Up to 60 Minutes

ROCKWOOL

TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

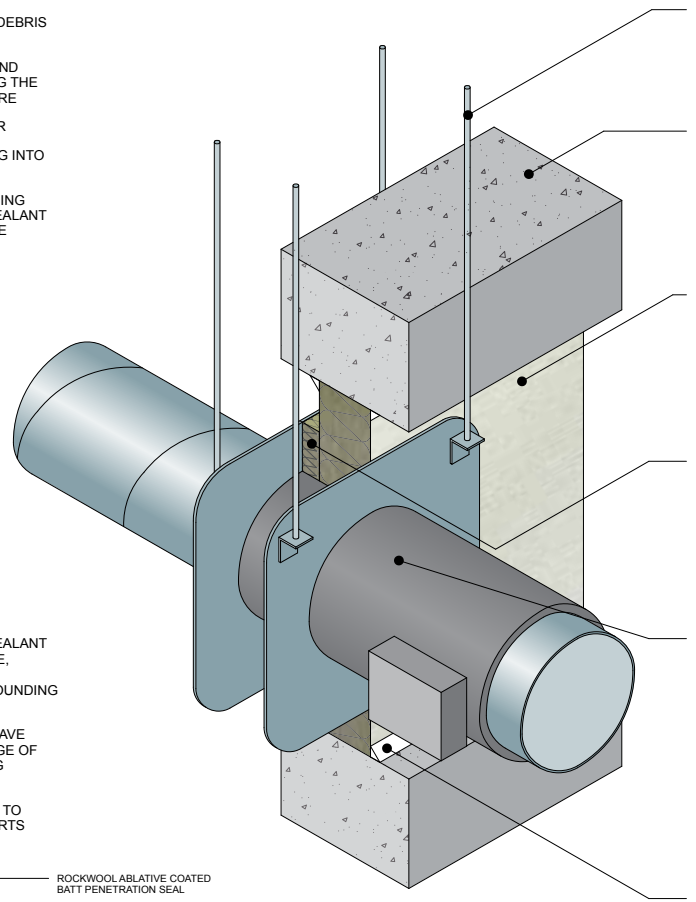
Project Title

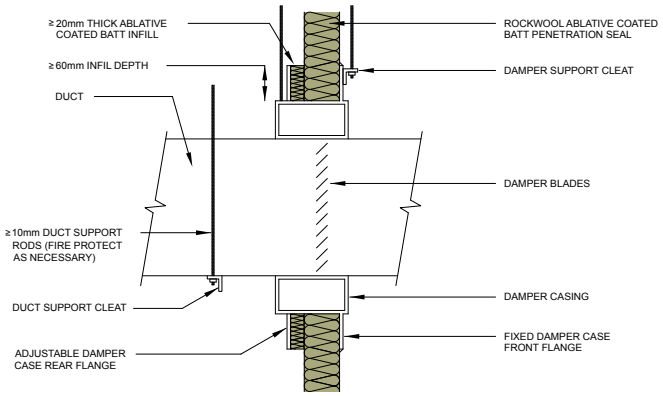
Drawing Title

60mm Ablative Coated Batt: Single layer Head of Wall

Scale	Date
NTS	30.01.2014
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-125-RDW	Rev.: 01

1. ENSURE AREA WITHIN THE APERTURE IS FREE FROM ANY DEBRIS AND REMOVE ANY DUST
2. CUT ROCKWOOL ABLATIVE COATED BATT(S) TO THE SIZE AND SHAPE REQUIRED TO FILL THE WALL APERTURE, ENSURING THE BATTS MAKE A TIGHT FIT WITH ALL EDGES OF THE APERTURE
3. CUT HOLE FROM THE COATED BATT(S) TO ACCEPT DAMPER
4. CUT THE COATED BATTS AS NECESSARY TO ALLOW FITTING INTO APERTURE AROUND DAMPER
5. WHERE THE COATED BATT WILL CONTACT THE SURROUNDING MASONRY, APPLY ROCKWOOL ACOUSTIC INTUMESCENT SEALANT TO THE OUTER EDGES OF THE BATT. DO NOT APPLY TO THE EDGES THAT WILL BE IN CONTACT WITH THE DAMPER
6. WHERE TWO COATED BATTS WILL BE IN CONTACT, USE ROCKWOOL FIREPRO GLUE AS THE JOINT ADHESIVE, ENSURING AN EVEN COVER IS PROVIDED OVER THE ENTIRE THICKNESS OF BOTH BATT EDGES
7. INSERT THE CUT BATT(S) AROUND THE DAMPER AND AGAINST THE DAMPER FRONT FLANGE UNTIL THE APERTURE IS COMPLETELY FILLED AND A TIGHT SEAL IS ACHIEVED
8. CUT PACKER PIECES OF COATED BATT, MINIMUM 60mm x 20mm, AND LOCATE THESE AROUND DAMPER AGAINST THE REAR SURFACE (NON-ACCESS SIDE) OF THE MAIN COATED BATT SEAL. (IF NECESSARY, A BEAD OF SEALANT MAY BE USED TO HOLD THE PACKER PIECES TO THE MAIN COATED BATT SEAL UNTIL THE RETAINING ANGLES ARE INSTALLED)
9. USING STEEL RIVETS OR SELF-TAPPING SCREWS, FIX THE REAR FLANGE COLLAR TO THE NON-ACCESS SIDE OF THE DAMPER, TIGHT AGAINST THE EXPOSED FACES OF THE PACKER PIECES
10. APPLY BEADS OF ROCKWOOL ACOUSTIC INTUMESCENT SEALANT TO BOTH SIDES OF THE WALL, APPROXIMATELY 15mm WIDE, AROUND THE PERIMETER OF THE ABLATIVE COATED BATT, ENSURING ANY GAPS BETWEEN THE BATT AND THE SURROUNDING WALL EDGES ARE FULLY FILLED
11. REPAIR ANY DAMAGE TO THE BATT COATING WHICH MAY HAVE OCCURRED DURING INSTALLATION AND THE EXPOSED EDGE OF THE INFIL PACKING PIECES BY BRUSH OR SPRAY APPLYING ROCKWOOL ABLATIVE COATING
12. ALLOW AT LEAST 12 HOURS FOR BATT PENETRATION SEAL TO CURE PRIOR TO REMOVING ANY LATERAL DAMPER SUPPORTS





NOTES:
1. THE DUCTWORK SYSTEM AND FIRE DAMPERS ETC. MUST BE INSTALLED AS RECOMMENDED BY THE APPROPRIATE MANUFACTURER
2. DAMPERS MUST BE INSTALLED CENTRALLY WITHIN THE WALL LINE

Notes

Damper type:
Circular or Flat Oval SmokeShield PTC™ dampers manufactured by ActionAir
Damper sizes for circular ductwork:
Minimum: 200mm x 200mm (to suit 100mm diameter ductwork)
Maximum: 1000mm x 1000mm (to suit 950mm diameter ductwork)
Damper sizes for flat-oval ductwork:
Minimum: 350mm x 250mm (to suit 300mm x 200mm ductwork)
Maximum: 1000mm x 550mm (to suit 950mm x 500mm ductwork)
Damper installation:
In accordance with HVCA document DW/145 and securely supported from cleats either side of wall to manufacturer's recommendations
Wall Construction: ≥150mm thick blockwork / brickwork / concrete
Aperture (seal) sizes: To suit damper sizes as follows:-
Circular ductwork: For damper sizes between 200mm and 300mm, the width of Coated Batt between damper and wall/partition must be between150 and 450mm, ±5% fitting tolerance
Circular ductwork: For damper sizes between 301mm and 1000mm, the width of Coated Batt between damper and wall/partition must be between 150 and 700mm, ±5% fitting tolerance
Flat-Oval ductwork: Coated batt width between damper and wall/partition must be between 150 and 750mm, ±5% fitting tolerance
Fire resistance:
Integrity - 120 minutes
Insulation - n/a

ROCKWOOL LIMITED
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 0011
f: 0871 222 1781

Client

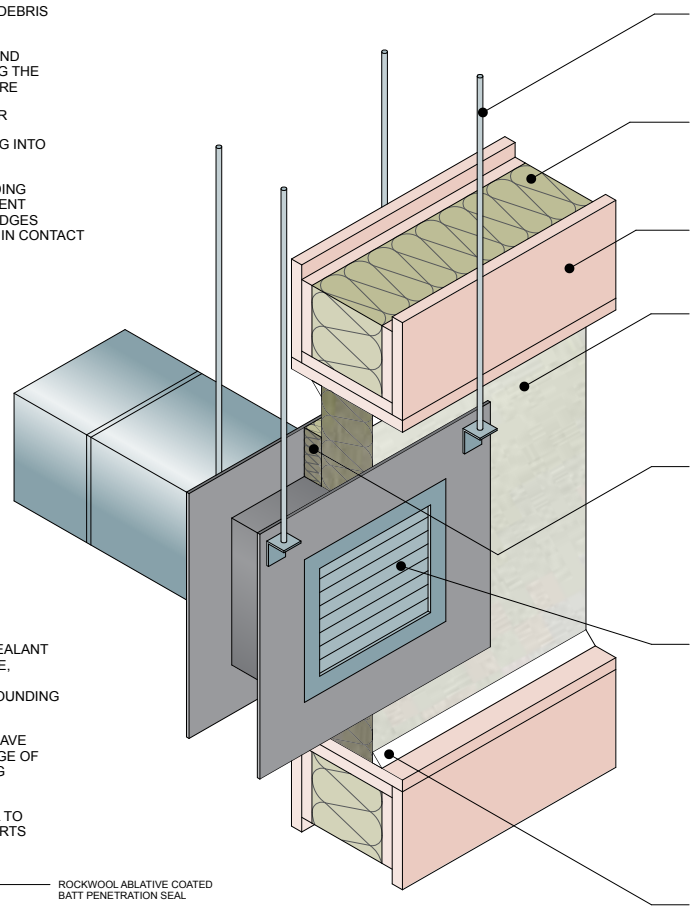
Job Title

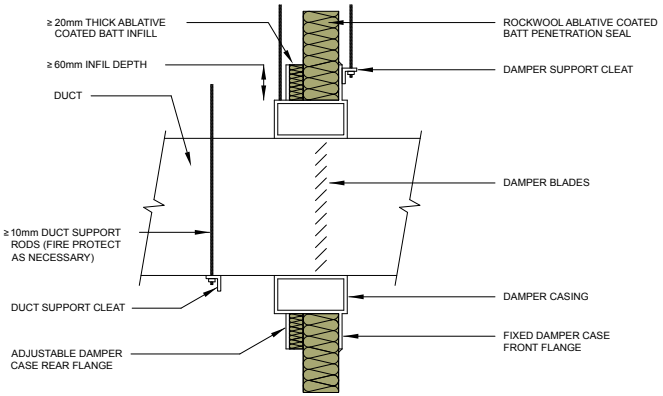
Drawing Title
150mm Brick / Block Wall Circular Dampers

Scale	Date
NTS	October 2011
Sheet Size	Drawn By
A3	Technical Graphics Ltd
Drawing Number	Rev.
BB-D-2-CDA-100	1.0

Rockwool Fire Stopping Technical Support: 0871 222 0011

1. ENSURE AREA WITHIN THE APERTURE IS FREE FROM ANY DEBRIS AND REMOVE ANY DUST
2. CUT ROCKWOOL ABLATIVE COATED BATT(S) TO THE SIZE AND SHAPE REQUIRED TO FILL THE WALL APERTURE, ENSURING THE BATTS MAKE A TIGHT FIT WITH ALL EDGES OF THE APERTURE
3. CUT HOLE FROM THE COATED BATT(S) TO ACCEPT DAMPER
4. CUT THE COATED BATTS AS NECESSARY TO ALLOW FITTING INTO APERTURE AROUND DAMPER
5. WHERE THE COATED BATT WILL CONTACT THE SURROUNDING PLASTERBOARD, APPLY ROCKWOOL ACOUSTIC INTUMESCENT SEALANT OR ROCKWOOL FIREPRO GLUE TO THE OUTER EDGES OF THE BATT. DO NOT APPLY TO THE EDGES THAT WILL BE IN CONTACT WITH THE DAMPER
6. WHERE TWO COATED BATTS WILL BE IN CONTACT, USE ROCKWOOL FIREPRO GLUE AS THE JOINT ADHESIVE, ENSURING AN EVEN COVER IS PROVIDED OVER THE ENTIRE THICKNESS OF BOTH BATT EDGES
7. INSERT THE CUT BATT(S) AROUND THE DAMPER AND AGAINST THE DAMPER FRONT FLANGE UNTIL THE APERTURE IS COMPLETELY FILLED AND A TIGHT SEAL IS ACHIEVED
8. CUT PACKER PIECES OF COATED BATT, MINIMUM 60mm x 20mm, AND LOCATE THESE AROUND DAMPER AGAINST THE REAR SURFACE (NON-ACCESS SIDE) OF THE MAIN COATED BATT SEAL. (IF NECESSARY, A BEAD OF SEALANT MAY BE USED TO HOLD THE PACKER PIECES TO THE MAIN COATED BATT SEAL UNTIL THE RETAINING ANGLES ARE INSTALLED)
9. USING STEEL RIVETS OR SELF-TAPPING SCREWS, FIX THE 4 REAR FLANGE ANGLES TO THE NON-ACCESS SIDE OF THE DAMPER, TIGHT AGAINST THE EXPOSED FACES OF THE PACKER PIECES
10. APPLY BEADS OF ROCKWOOL ACOUSTIC INTUMESCENT SEALANT TO BOTH SIDES OF THE WALL, APPROXIMATELY 15mm WIDE, AROUND THE PERIMETER OF THE ABLATIVE COATED BATT, ENSURING ANY GAPS BETWEEN THE BATT AND THE SURROUNDING WALL EDGES ARE FULLY FILLED
11. REPAIR ANY DAMAGE TO THE BATT COATING WHICH MAY HAVE OCCURRED DURING INSTALLATION AND THE EXPOSED EDGE OF THE INFIL PACKING PIECES BY BRUSH OR SPRAY APPLYING ROCKWOOL ABLATIVE COATING
12. ALLOW AT LEAST 12 HOURS FOR BATT PENETRATION SEAL TO CURE PRIOR TO REMOVING ANY LATERAL DAMPER SUPPORTS





NOTES:
1. THE DUCTWORK SYSTEM AND FIRE DAMPERS ETC. MUST BE INSTALLED AS RECOMMENDED BY THE APPROPRIATE MANUFACTURER
2. DAMPERS MUST BE INSTALLED CENTRALLY WITHIN THE WALL LINE

Notes

Damper type:
Rectangular SmokeShield PTC™ dampers manufactured by ActionAir

Damper sizes:
Minimum: 100mm x 100mm
Maximum: 1000mm x 1000mm

Damper installation:
In accordance with HVCA document DW/145 and securely supported from cleats either side of wall to manufacturer's recommendations

Wall Construction: 2 hour fire resistant plasterboard / steel studs

Aperture (seal) sizes: To suit damper sizes as follows:-
For damper size ranges between 100 x 100mm and 300 x 300mm, the width of Coated Batt between damper and wall must be between 150 and 450mm, ±5% fitting tolerance
For damper size ranges between 301 x 301mm and 1000 x 1000mm, the width of Coated Batt between damper and wall must be between 150 and 700mm, ±5% fitting tolerance

Fire resistance:
Integrity - 120 minutes
Insulation - n/a

Rockwool Fire Stopping Technical Support: 0871 222 0011

ROCKWOOL LIMITED
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 0011
f: 0871 222 1781

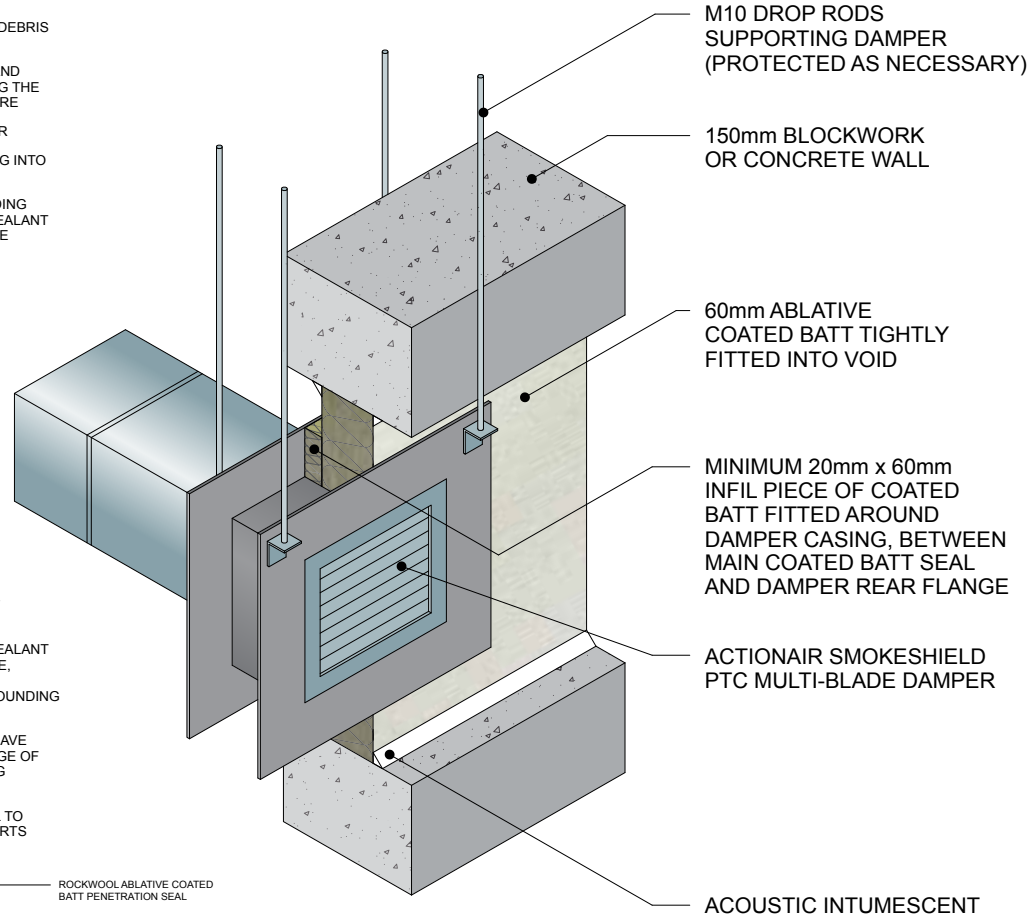
Client

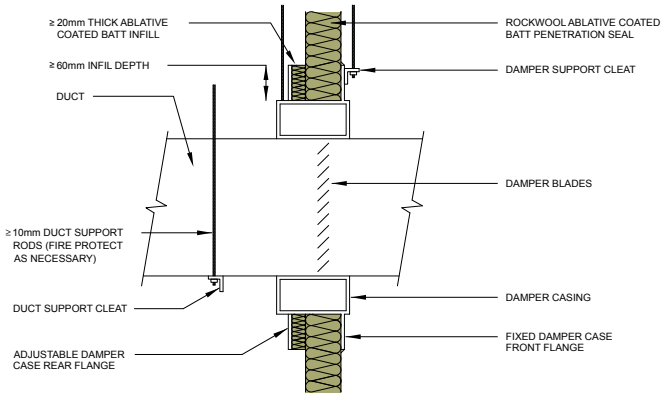
Job Title

Drawing Title
2 hour Flexible Wall Square Dampers

Scale	Date
NTS	October 2011
Sheet Size	Drawn By
A3	Technical Graphics Ltd
Drawing Number	Rev.
FP-D-2-SDA-97	1.0

1. ENSURE AREA WITHIN THE APERTURE IS FREE FROM ANY DEBRIS AND REMOVE ANY DUST
2. CUT ROCKWOOL ABLATIVE COATED BATT(S) TO THE SIZE AND SHAPE REQUIRED TO FILL THE WALL APERTURE, ENSURING THE BATTS MAKE A TIGHT FIT WITH ALL EDGES OF THE APERTURE
3. CUT HOLE FROM THE COATED BATT(S) TO ACCEPT DAMPER
4. CUT THE COATED BATTS AS NECESSARY TO ALLOW FITTING INTO APERTURE AROUND DAMPER
5. WHERE THE COATED BATT WILL CONTACT THE SURROUNDING MASONRY, APPLY ROCKWOOL ACOUSTIC INTUMESCENT SEALANT TO THE OUTER EDGES OF THE BATT. DO NOT APPLY TO THE EDGES THAT WILL BE IN CONTACT WITH THE DAMPER
6. WHERE TWO COATED BATTS WILL BE IN CONTACT, USE ROCKWOOL FIREPRO GLUE AS THE JOINT ADHESIVE, ENSURING AN EVEN COVER IS PROVIDED OVER THE ENTIRE THICKNESS OF BOTH BATT EDGES
7. INSERT THE CUT BATT(S) AROUND THE DAMPER AND AGAINST THE DAMPER FRONT FLANGE UNTIL THE APERTURE IS COMPLETELY FILLED AND A TIGHT SEAL IS ACHIEVED
8. CUT PACKER PIECES OF COATED BATT, MINIMUM 60mm x 20mm, AND LOCATE THESE AROUND DAMPER AGAINST THE REAR SURFACE (NON-ACCESS SIDE) OF THE MAIN COATED BATT SEAL. (IF NECESSARY, A BEAD OF SEALANT MAY BE USED TO HOLD THE PACKER PIECES TO THE MAIN COATED BATT SEAL UNTIL THE RETAINING ANGLES ARE INSTALLED)
9. USING STEEL RIVETS OR SELF-TAPPING SCREWS, FIX THE 4 REAR FLANGE ANGLES TO THE NON-ACCESS SIDE OF THE DAMPER, TIGHT AGAINST THE EXPOSED FACES OF THE PACKER PIECES
10. APPLY BEADS OF ROCKWOOL ACOUSTIC INTUMESCENT SEALANT TO BOTH SIDES OF THE WALL, APPROXIMATELY 15mm WIDE, AROUND THE PERIMETER OF THE ABLATIVE COATED BATT, ENSURING ANY GAPS BETWEEN THE BATT AND THE SURROUNDING WALL EDGES ARE FULLY FILLED
11. REPAIR ANY DAMAGE TO THE BATT COATING WHICH MAY HAVE OCCURRED DURING INSTALLATION AND THE EXPOSED EDGE OF THE INFIL PACKING PIECES BY BRUSH OR SPRAY APPLYING ROCKWOOL ABLATIVE COATING
12. ALLOW AT LEAST 12 HOURS FOR BATT PENETRATION SEAL TO CURE PRIOR TO REMOVING ANY LATERAL DAMPER SUPPORTS





NOTES:
1. THE DUCTWORK SYSTEM AND FIRE DAMPERS ETC. MUST BE INSTALLED AS RECOMMENDED BY THE APPROPRIATE MANUFACTURER
2. DAMPERS MUST BE INSTALLED CENTRALLY WITHIN THE WALL LINE

Notes

Damper type:
Rectangular SmokeShield PTC™ dampers manufactured by ActionAir
Damper sizes:
Minimum: 100mm x 100mm
Maximum: 1000mm x 1000mm
Damper installation:
In accordance with HVCA document DW/145 and securely supported from cleats either side of wall to manufacturer's recommendations
Wall Construction: ≥150mm thick blockwork / brickwork / concrete
Aperture (seal) sizes: To suit damper sizes as follows:-
For damper size ranges between 100 x 100mm and 300 x 300mm, the width of Coated Batt between damper and wall must be between 150 and 450mm, ±5% fitting tolerance
For damper size ranges between 301 x 301mm and 1000 x 1000mm, the width of Coated Batt between damper and wall must be between 150 and 700mm, ±5% fitting tolerance
Fire resistance:
Integrity - 120 minutes
Insulation - n/a

ROCKWOOL LIMITED
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 0011
f: 0871 222 1781

Client

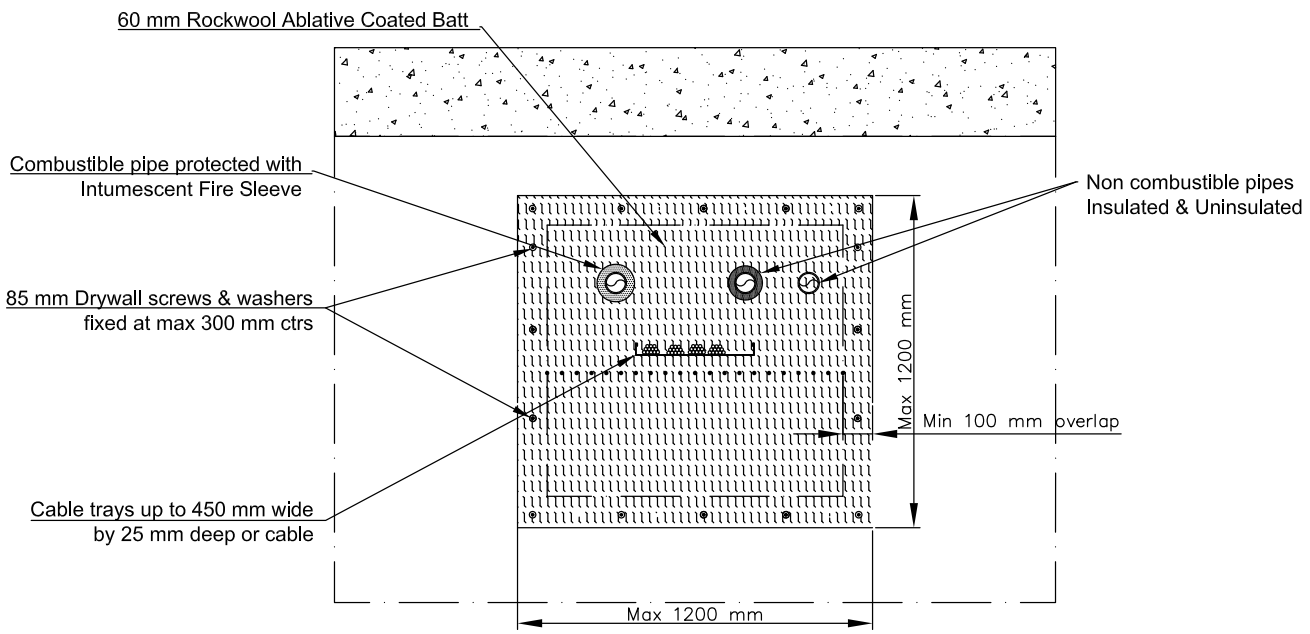
Job Title

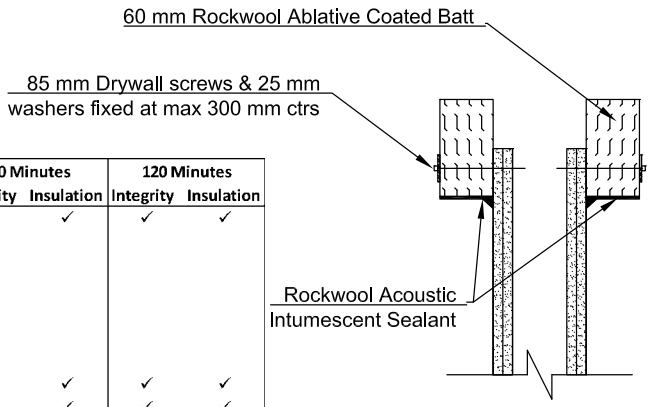
Drawing Title
150mm Brick / Block Wall Square Dampers

Scale	Date
NTS	October 2011
Sheet Size	Drawn By
A3	Technical Graphics Ltd
Drawing Number	Rev.
BB-D-2-SDA-99	1.0

Rockwool Fire Stopping Technical Support: 0871 222 0011

Standard Detail - 60mm Coated Batt Face Fixed





Service type	30 Minutes		60 Minutes		90 Minutes		120 Minutes	
	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation
Max aperture size 1000mm x 1000mm (Min 100mm wall)	✓	✓	✓	✓	✓	✓	✓	✓
bunched cables ≤100 mm	✓	✓	✓	✓				
0-15mm sheathed cables	✓	✓	✓	✓				
16-21mm sheathed cables	✓	✓	✓	✓				
22-50mm sheathed cables	✓	✓	✓	✓				
50-80mm sheathed cables	✓	✓	✓	✓				
PVC Conduits ≤ 15 mm	✓	✓	✓	✓				
PVC & HDPE pipes ≤ 110 mm (with High pressure sealant)*	✓	✓	✓	✓	✓	✓	✓	✓
Steel pipes ≤168 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	✓
Copper pipes ≤ 108 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	✓
PVC pipes ≤ 160 mm with Fire Sleeve	✓	✓	✓	✓	✓	✓	✓	✓
HDPE pipes ≤110 mm with Fire Sleeve	✓	✓	✓	✓	✓	✓	✓	✓
HDPE pipes ≤160 mm with Fire Sleeve	✓	✓	✓	✓				
PB ≤ 28 mm with Fire Sleeve	✓	✓	✓	✓	✓	✓	✓	✓
ABS pipes ≤ 164 mm with Fire Sleeve	✓		✓					

* Requires Min 25mm annular space around the pipe which is sealed with a minimum 40mm depth of High Expansion Sealant in each batt

Detail Notes

This solution has been offered to provide up to 120 minutes Integrity and insulation performance.

The performance of the Firestop is only as good as the performance of the supporting substrate, which should be installed in accordance with the manufacturers tested guidelines.

The 60 mm Rockwool Ablative Coated Batt must be installed with Rockwool intumescent bedded between the batt and the drywall. A fillet of mastic must be installed at the junction between the batt and the drywall to ensure no gaps are visible between the drywall and the batt.

The exposed mineral wool edges should be buttered with a layer of mastic.

The Rockwool coated batt must be fixed on a minimum of 3 edges with the junction between the concrete soffit and the batt sealed with Rockwool intumescent mastic.

Acoustic Performance	Up to 53 dB
Integrity Performance	Insulation Performance
Up to 120 Minutes	Up to 120 Minutes

ROCKWOOL
FIRESAFE INSULATION
TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
email: technical.solutions@rockwool.co.uk

Client

Project Title

Drawing Title

60mm Ablative Coated Batt: Face Fixed Application Range

Scale	Date
NTS	10.07.15
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-111-RDW	Rev.: 03

Standard Detail - 50mm Coated Batt Single Layer

INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Cut Rockwool ablative coated batt to the size and shape required to fit the aperture ensuring the batt will make a tight fit with all edges of the aperture.

3. Cut rectangular holes from the coated batt to accommodate the cable tray or ladder containing cables.

4. Cut the coated batt across its width at the mid-point of each rectangular hole to enable batt to be fitted into the aperture.

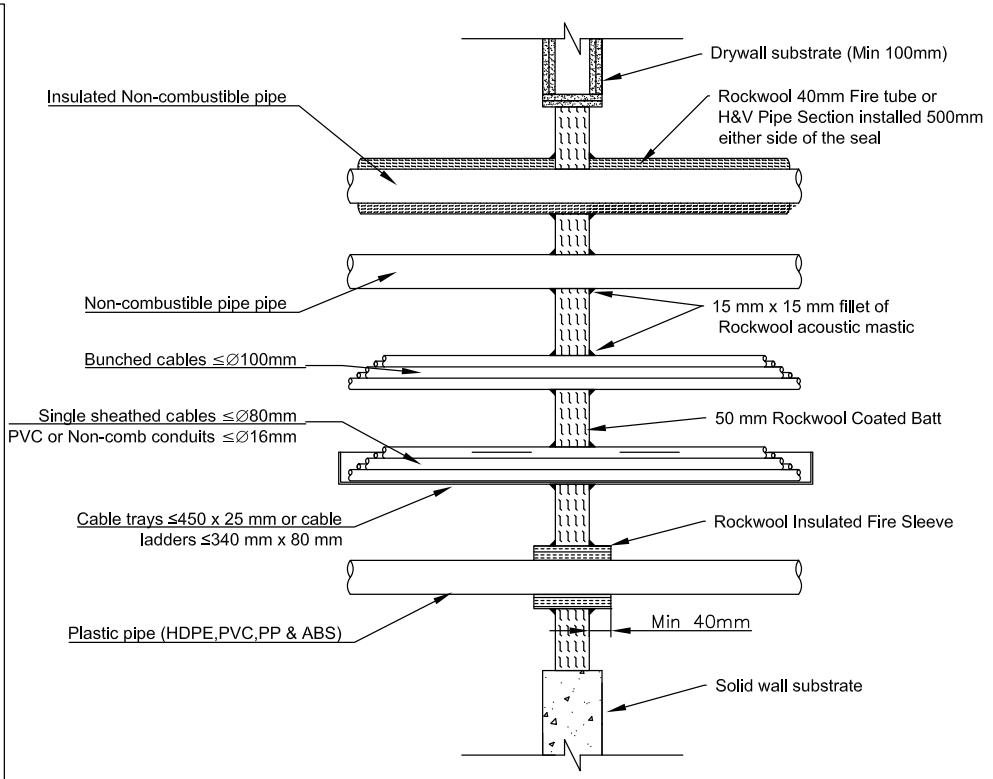
5. Apply Rockwool acoustic intumescent sealant to all edges of the batt, ensuring that an even cover is achieved over the entire thickness of the batt. This should include the outer edges of the batt and the edges of the cut made across the batt to allow fitting into the aperture. There is no requirement to apply sealant to the edges of the holes cut to accommodate each cable tray or ladder.

6. Insert the batt into the aperture.

7. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, around the perimeter of the batt ensuring that all gaps between the batt and surrounding edges are fully filled.

8. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, where the cables pass through the batt. Ensure that the sealant fully encloses each cable within the tray or ladder and that all gaps are fully filled.

9. Repeat step 7 and 8 on the other side of the batt



The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

Flexible wall construction must be installed in accordance with the manufacturer's guidelines with the aperture being fully framed and lined out. The Wall construction should be of a minimum thickness of 100 mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the coated batt.

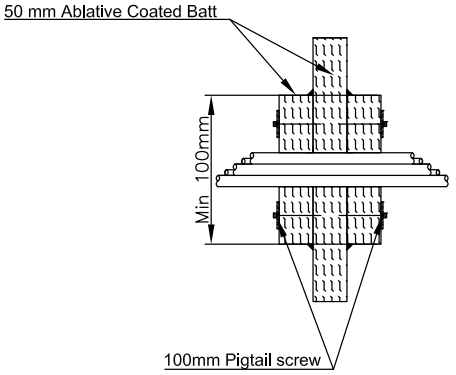
For specific installation details not cover by this detail (such as Damper installation) then please consult the relevant Standard detail or the Rockwool Fire stopping Technical manual.

Integrity Performance	Insulation Performance
Up to 120 Minutes	Up to 60 Minutes

Service type	30 Minutes		60 Minutes		90 Minutes	120 Minutes
	Integrity	Insulation	Integrity	Insulation	Integrity Insulation	Integrity Insulation
Maximum aperture size m² (60 Min Insulation Performance)	2.38m²		2.3m²		2.23m²	2.1m²
Cable ladders ≤450 x 25mm & Cable ladders ≤ 340 x 80mm	✓	✓	✓	✓		
bunched cables ≤100 mm	✓	✓	✓	✓		
0-15mm sheathed cables	✓	✓	✓	✓		
16-21mm sheathed cables	✓	✓	✓	✓*		
22-50mm sheathed cables	✓	✓	✓	✓		
50-80mm sheathed cables	✓	✓	✓	✓*		
PVC Conduits ≤ 15 mm	✓	✓	✓			
Steel pipes ≤168 mm lagged with Fire Tube	✓	✓	✓	✓		
Copper pipes ≤ 108 mm lagged with Fire Tube	✓	✓	✓	✓		
Steel pipes ≤17mm unlagged	✓	✓	✓			
Steel pipes 17 - 168 mm unlagged	✓		✓			
Copper pipes ≤ 108 mm unlagged	✓		✓			
PVC pipes ≤ 160 mm with Fire Sleeve	✓	✓	✓			
HDPE pipes ≤ 56 mm with Fire Sleeve	✓	✓	✓	✓		
ABS pipes ≤ 164 mm with Fire Sleeve	✓		✓			

* With additional protection of patress piece of coated batt Min 100mm around the cable (Min 4 pigtail screw fixings)

Additional cable protection to achive insulation ratings



ROCKWOOL
FIRESAFE INSULATION
TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 01656 862621
email: technical.solutions@rockwool.co.uk

Client

Project Title

Drawing Title
50mm Ablative Coated Batt: Single layer Application Range

Scale	Date
NTS	19.12.2016
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-112-RDW	Rev.: 04

INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Cut Rockwool ablative coated batt to the size and shape required to fit the aperture ensuring the batt will make a tight fit with all edges of the aperture.

3. Cut rectangular holes from the coated batt to accommodate the cable tray or ladder containing cables.

4. Cut the coated batt across its width at the mid-point of each rectangular hole to enable batt to be fitted into the aperture.

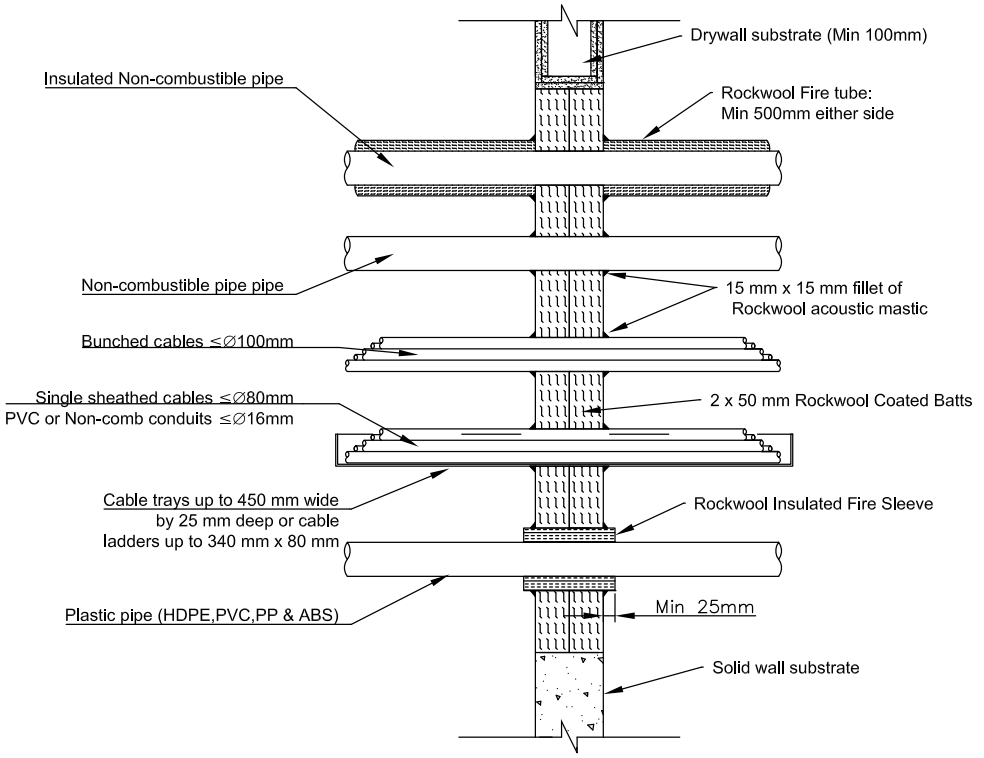
5. Apply Rockwool acoustic intumescent sealant to all edges of the batt, ensuring that an even cover is achieved over the entire thickness of the batt. This should include the outer edges of the batt and the edges of the cut made across the batt to allow fitting into the aperture. There is no requirement to apply sealant to the edges of the holes cut to accommodate each cable tray or ladder.

6. Insert the batt into the aperture.

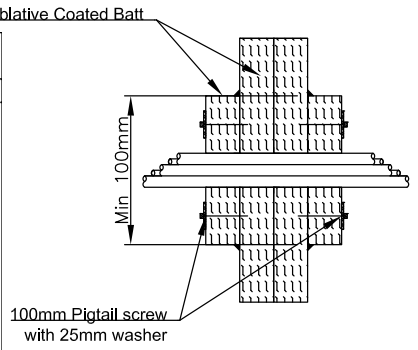
7. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, around the perimeter of the batt ensuring that all gaps between the batt and surrounding edges are fully filled.

8. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, where the cables pass through the batt. Ensure that the sealant fully encloses each cable within the tray or ladder and that all gaps are fully filled.

9. Repeat step 7 and 8 on the other side of the batt



Additional cable protection to achive insulation ratings



Service type	30 Minutes		60 Minutes		90 Minutes		120 Minutes	
	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation
Maximum aperture size m² (120 Min Insulation Performance)	2.0m²		1.93m²		1.87m²		1.8m²	
bunched cables ≤100 mm	✓	✓	✓	✓	✓	✓	✓	
0-15mm sheathed cables	✓	✓	✓	✓	✓	✓*	✓	
16-21mm sheathed cables	✓	✓	✓	✓	✓	✓*	✓	
22-50mm sheathed cables	✓	✓	✓	✓	✓		✓	
50-80mm sheathed cables	✓	✓	✓	✓	✓	✓*	✓	
PVC Conduits ≤ 15 mm	✓	✓	✓	✓	✓	✓	✓	✓
Steel pipes ≤168 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	✓
Copper pipes ≤ 108 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	✓
PVC pipes ≤ 160 mm with Fire Sleeve	✓	✓	✓	✓	✓	✓	✓	✓
HDPE pipes ≤ 110 mm with Fire Sleeve	✓	✓	✓	✓	✓	✓	✓	✓
HDPE pipes ≤ 160 mm with Fire Sleeve	✓	✓	✓	✓				
PB ≤ 28 mm with Fire Sleeve	✓	✓	✓	✓	✓	✓	✓	✓
Phenolic Insulation arounc metallic pipes (Ultra Wrap)	✓	✓	✓		✓		✓	
Fire Damper ≤ 1 x 1 m (Max aperture 2.4m² with Firepro Glue)	✓		✓		✓		✓	

* With additional protection of patress piece of coated batt Min 100mm around the cable (Min 4 pigtail screw fixings)

Standard Detail - 50mm Coated Batt Double Layer

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

Flexible wall construction must be installed in accordance with the manufacturer's guidelines with the aperture being fully framed and lined out. The Wall construction should be of a minimum thickness of 100 mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the coated batt.

For specific installation details not cover by this detail (such as Damper installation) then please consult the relevant Standard detail or the Rockwool Fire stopping Technical manual.

Integrity Performance	Insulation Performance
Up to 120 Minutes	Up to 120 Minutes

ROCKWOOL

TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

Project Title

Drawing Title

50mm Ablative Coated Batt: Double Layer Application Range

Scale	Date
NTS	11.01.2014
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-122-RDW	Rev.

INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Cut Rockwool ablative coated batt to the size and shape required to fit the aperture ensuring the batt will make a tight fit with all edges of the aperture.

3. Cut rectangular holes from the coated batt to accommodate the cable tray or ladder containing cables.

4. Cut the coated batt across its width at the mid-point of each rectangular hole to enable batt to be fitted into the aperture.

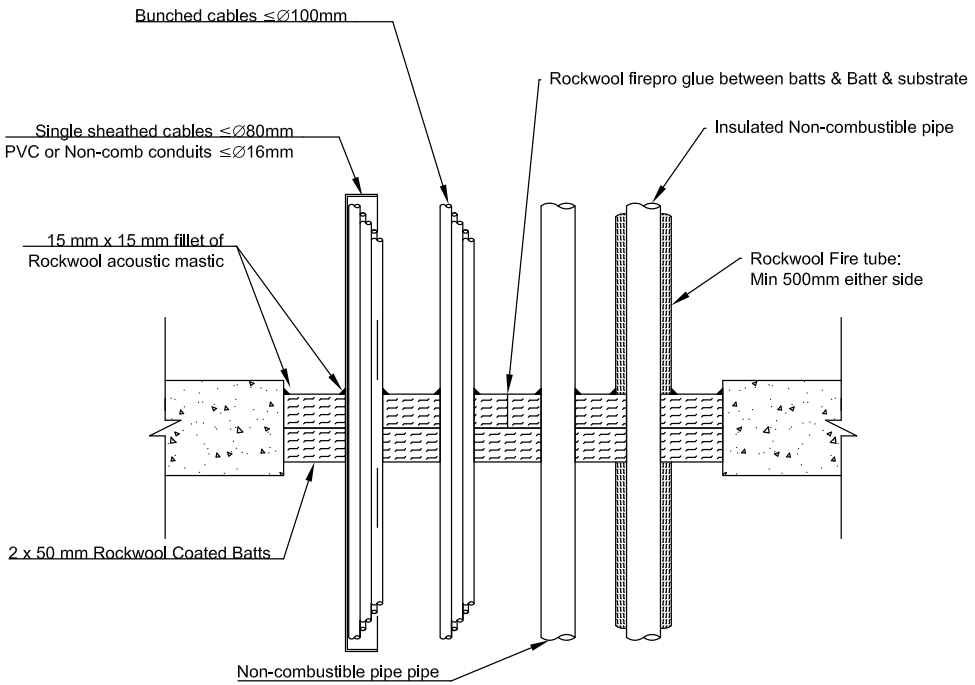
5. Apply Rockwool acoustic intumescent sealant to all edges of the batt, ensuring that an even cover is achieved over the entire thickness of the batt. This should include the outer edges of the batt and the edges of the cut made across the batt to allow fitting into the aperture. There is no requirement to apply sealant to the edges of the holes cut to accommodate each cable tray or ladder.

6. Insert the batt into the aperture.

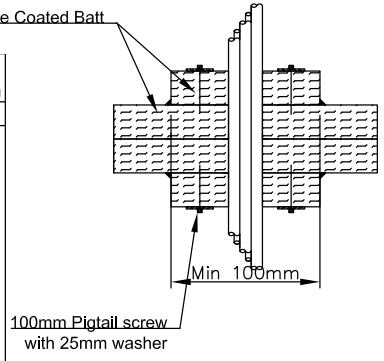
7. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, around the perimeter of the batt ensuring that all gaps between the batt and surrounding edges are fully filled.

8. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, where the cables pass through the batt. Ensure that the sealant fully encloses each cable within the tray or ladder and that all gaps are fully filled.

9. Repeat step 7 and 8 on the other side of the batt



Additional cable protection to achive insulation ratings



Service type	30 Minutes		60 Minutes		90 Minutes		120 Minutes	
	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation
Maximum aperture size m² (120 Min Insulation Performance)	2.46m²		2.46m²		2.37m²		2.28m²	
bunched cables ≤100 mm	✓	✓	✓	✓	✓	✓	✓	✓
0-15mm sheathed cables	✓	✓	✓	✓	✓	✓	✓	✓*
16-21mm sheathed cables	✓	✓	✓	✓	✓	✓*	✓	
22-50mm sheathed cables	✓	✓	✓	✓	✓	✓*	✓	
50-80mm sheathed cables	✓	✓	✓	✓	✓		✓	
PVC Conduits ≤15 mm	✓	✓	✓	✓	✓	✓	✓	
PVC pipes ≤100 mm (see Rockwool NSD 119)	✓	✓	✓	✓				
Steel pipes ≤168 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	✓
Copper pipes ≤ 54 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	
PVC pipes ≤110mm see Rockwool detail NSD-119	✓	✓	✓	✓				
Fire Damper ≤ 1 x 1 m (Max aperture 2.4m² with Firepro Glue)	✓		✓		✓		✓	

All batt to batt and batt to substrate joints shall be sealed using Firepro glue

* With additional protection of patress piece of coated batt Min 100mm around the cable (Min 4 pigtail screw fixings)

Standard Detail - 50mm Coated Batt Double Layer Horizontal

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

The Floor construction should be of a minimum thickness of 150 mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the coated batt.

For specific installation details not cover by this detail (such as Damper installation) then please consult the relevant Standard detail or the Rockwool Fire stopping Technical manual.

Integrity Performance	Insulation Performance
Up to 240 Minutes	Up to 120 Minutes

ROCKWOOL

TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

Project Title

Drawing Title

50mm Ablative Coated Batt: Double Layer Horizontal Application Range

Scale	Date
NTS	14.01.2014
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-123-RDW	Rev.

INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Install the Rockwool Ablative Coated Batts either vertically or using a stretcher bond pattern up to a maximum aperture size of 400mm x 6M.

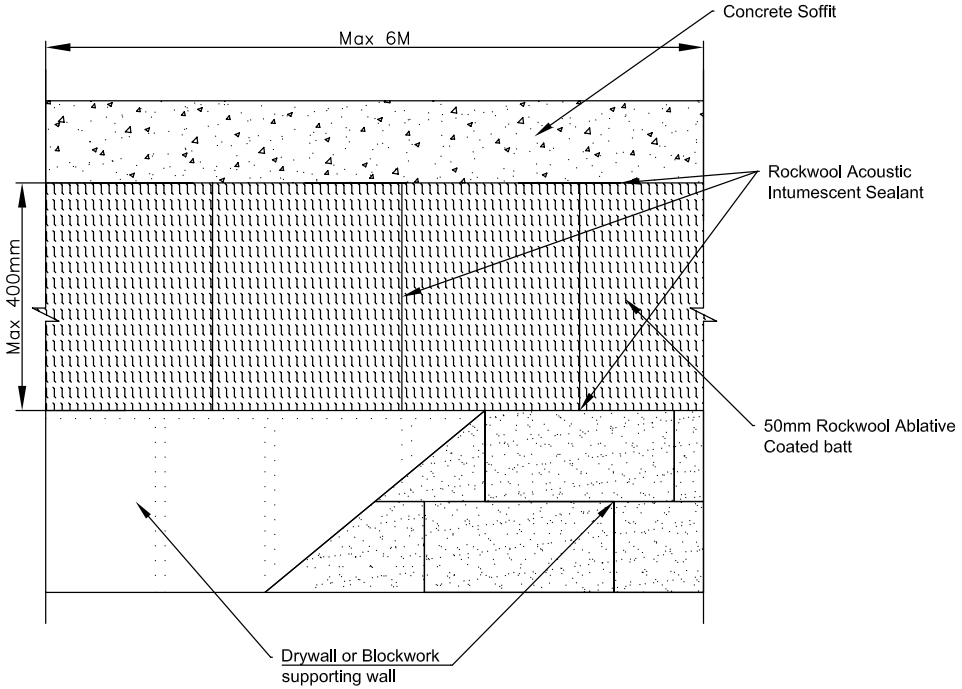
3. Apply Rockwool Acoustic Intumescent Sealant to the outer edges of the batt to seal the joints between batts and supporting substrates.

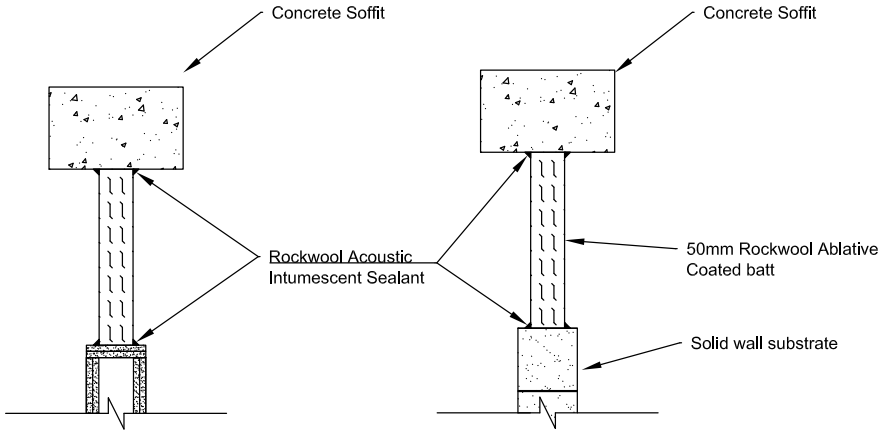
4. Continue installation until the aperture is completely filled.

5. Apply a bead of Rockwool acoustic intumescent sealant, approximately 15 mm wide, around the perimeter of the batt ensuring that all gaps between the batt and surrounding edges are fully filled.

6. Repeat step 5 on the other side of the batt

7. Repair any damage to the coating which may have occurred during installation by brush or spray applying Rockwool ablative coating.





Standard Detail - 50mm Coated Batt Single Layer Head of Wall

Typical Opening Size: 400mm High x 6M long

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

Flexible wall construction must be installed in accordance with the manufacturer's guidelines with the aperture being fully framed and lined out. The Wall construction should be of a minimum thickness of 100 mm.

Integrity Performance	Insulation Performance
Up to 60 Minutes	Up to 60 Minutes

ROCKWOOL

TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

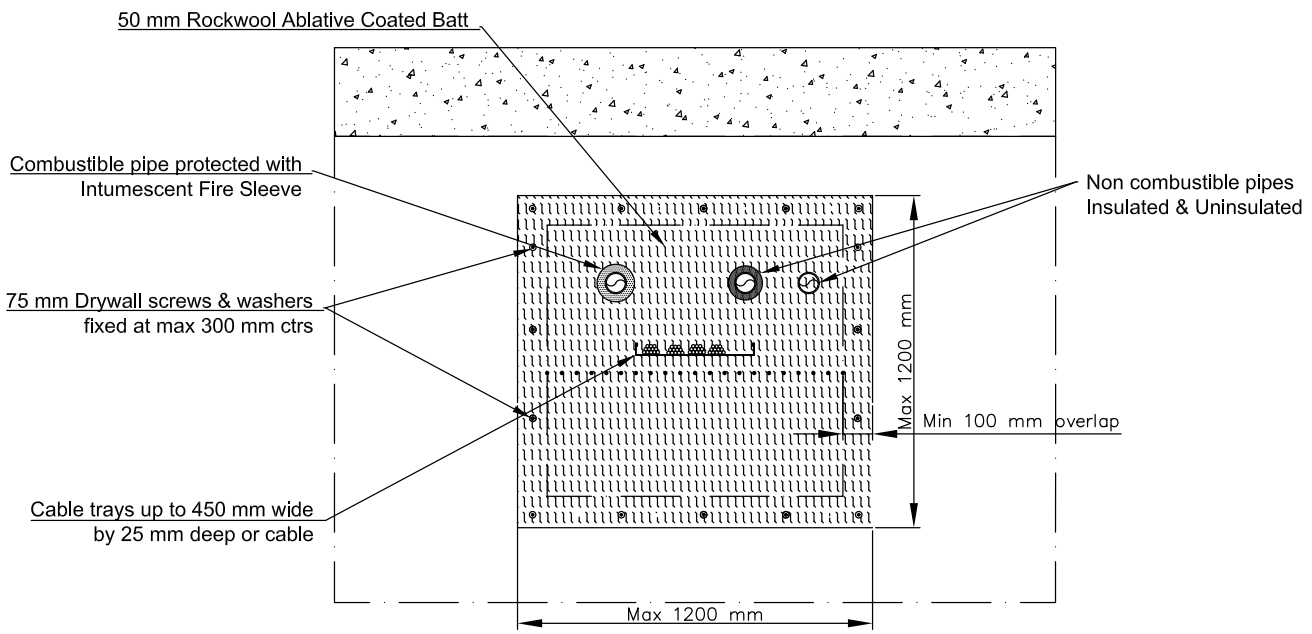
Project Title

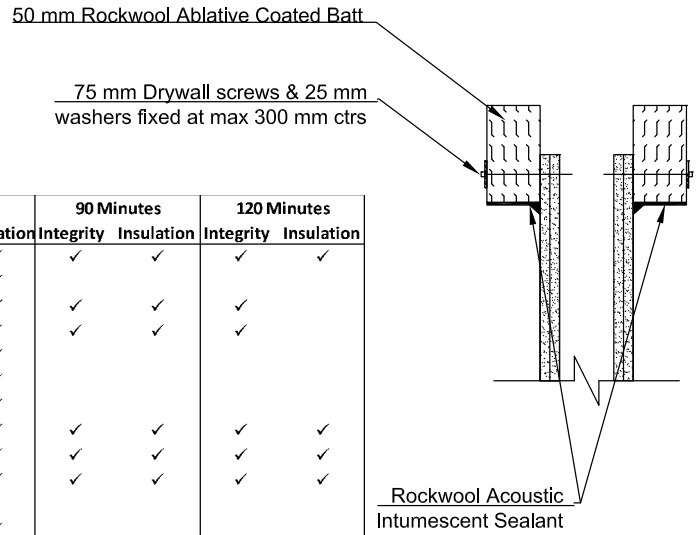
Drawing Title

50mm Ablative Coated Batt: Single layer Head of Wall

Scale	Date
NTS	30.01.2014
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-126-RDW	Rev.: 01

Standard Detail - 50mm Coated Batt Face Fixed





Service type	30 Minutes		60 Minutes		90 Minutes		120 Minutes	
	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation
Max aperture size 1000mm x 1000mm (Min 100mm wall)	✓	✓	✓	✓	✓	✓	✓	✓
bunched cables ≤100 mm	✓	✓	✓	✓				
0-15mm sheathed cables	✓	✓	✓	✓	✓	✓	✓	
16-21mm sheathed cables	✓	✓	✓	✓	✓	✓	✓	
22-50mm sheathed cables	✓	✓	✓	✓				
50-80mm sheathed cables	✓	✓	✓	✓				
PVC Conduits ≤ 15 mm	✓	✓	✓	✓				
PVC & HDPE pipes ≤ 110 mm (with High pressure sealant)*	✓	✓	✓	✓	✓	✓	✓	✓
Steel pipes ≤168 mm lagged with Fire Tube or H&V Section	✓	✓	✓	✓	✓	✓	✓	✓
Copper pipes ≤ 108 mm lagged with Fire Tube or H&V Section	✓	✓	✓	✓	✓	✓	✓	✓
PVC pipes ≤ 160 mm with Fire Sleeve	✓	✓	✓					
HDPE pipes ≤ 56 mm with Fire Sleeve	✓	✓	✓	✓				
ABS pipes ≤ 164 mm with Fire Sleeve	✓		✓					

* Requires Min 25mm annular space around the pipe with minimum sealant depth of 40mm in each batt

Detail Notes

This solution has been offered to provide up to 120 minutes Integrity and insulation performance.

The performance of the Firestop is only as good as the performance of the supporting substrate, which should be installed in accordance with the manufacturers tested guidelines.

The 50 mm Rockwool Ablative Coated Batt must be installed with Rockwool intumescent bedded between the batt and the drywall. A fillet of mastic must be installed at the junction between the batt and the drywall to ensure no gaps are visible between the drywall and the batt.

The exposed mineral wool edges should be buttered with a layer of mastic.

The Rockwool coated batt must be fixed on a minimum of 3 edges with the junction between the concrete soffit and the batt sealed with Rockwool intumescent mastic.

Acoustic Performance	Up to 53 dB
Integrity Performance	Insulation Performance
Up to 120 Minutes	Up to 120 Minutes

ROCKWOOL
FIRESAFE INSULATION
TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

Project Title

Drawing Title

50mm Ablative Coated Batt: Face Fixed Application Range

Scale	Date
NTS	09.12.14
Sheet Size	Drawn By R Wakefield
Drawing Number SD-113-RDW	Rev. 04

INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

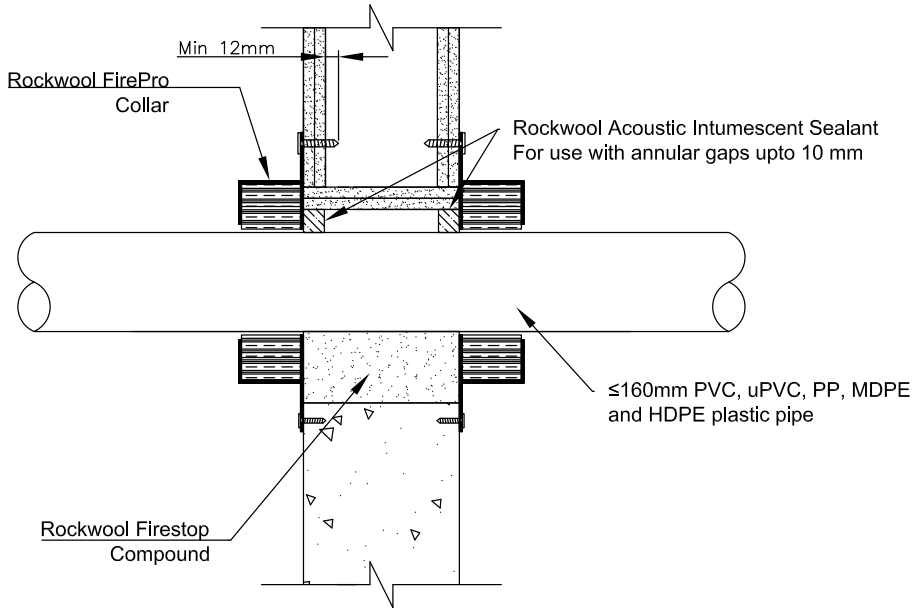
2. Make good around the plastic pipe with either Rockwool Acoustic Intumescent Sealant or Firestop Compound.

3. Slide the FirePro Collar, with its fixing tabs pointing towards te face of the wall, around the plastic pipe.

4. Lock the FirePro Collar around the pipe closing the toggle clip firmly. Push the pipe collar back firmly against the wall.

5. Fix the FirePro collar to the wall by means of 32mm long, steel self-tapping screws for solid walls and by deep threaded drywall screws min 12 mm longer than the thickness of the board layers for drywall installations.

6. Repeat for the otherside of the wall.



Standard Detail. FirePro Collar protecting combustible pipes through solid/flexible walls.

Notes:

Supporting wall construction must be capable of achieving the required Fire Rating. Drywalls should have a minimum of 2 layers f plastarboard on each face of the wall.

The pipes must be supported within 1m either side of the wall construction such that no load is imparted onto the seal system.

The maximum pipe wall thickness covered by this detail is 7mm and a minimum wall thickness of 2.5mm. **See the product data sheet for specific pipe size/types and the appropriate maximum fire ratings.**

Integrity Performance SOLID WALL	Insulation Performance SOLID WALL
240 Minutes	240 Minutes
Integrity Performance FLEXIBLE WALL	**Insulation Performance FLEXIBLE WALL**
120 Minutes	120 Minutes

ROCKWOOL LIMITED
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 0011
f: 0871 222 1781

Client

Project Title

Drawing Title

FirePro Collar protecting combustible pipes through solid/flexible walls

Scale	Date
NTS	31.05.2013
Sheet Size	Drawn By R Wakefield

Drawing Number: SD-118-RDW-FirePro Collar vertical construction

Rev.

Rockwool Fire Stopping Technical Support: 0871 222 0011

INSTALLATION NOTES

1. Make good wall around plastic pipe with either ROCKWOOL Acoustic Intumescent Sealant or Firestop Compound.

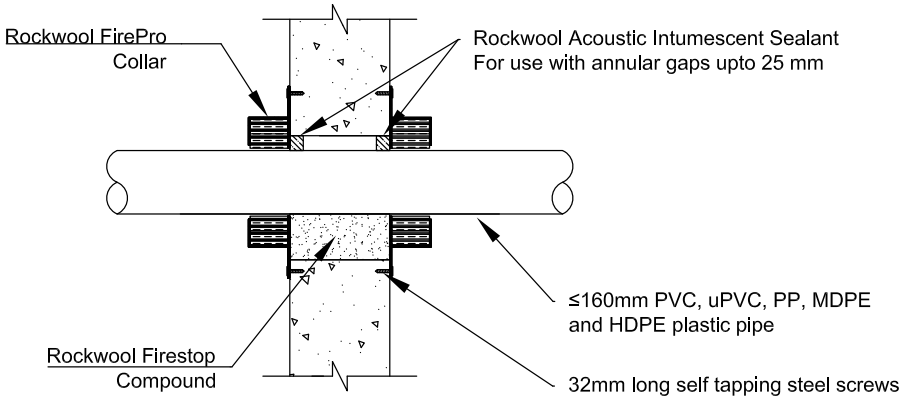
2. Undo the toggle clip on the Firestop Pipe Collar and open it out.

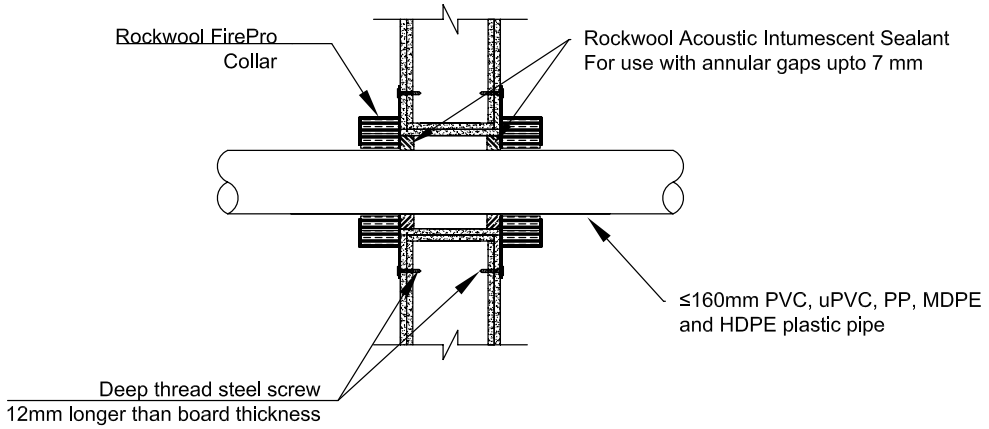
3. Slide the Firestop Pipe Collar, with its fixing tabs pointing towards the face of the wall, around the plastic pipe.

4. Lock the Firestop Pipe Collar around the pipe closing the toggle clip. Push the Firestop Pipe Collar back on to the wall.

5. Fix the Firestop Pipe Collar to the wall by means of suitable steel screws, through the fixing tabs.

6. Repeat for the other side of the wall if required.





Standard Detail - Firestop Pipe Collar: Wall Seal

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

Flexible wall construction must be installed in accordance with the manufacturer's guidelines with a minimum of two layers of board either side of the studs. The Wall construction should be of a minimum thickness of 100 mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the seal.

Integrity Performance	Insulation Performance
Up to 120 Minutes	Upto 120 Minutes

ROCKWOOL

TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

Project Title

Drawing Title

Rockwool Firestop Pipe Collar: Wall Seals

Scale	Date
NTS	06.07.14
Sheet Size	Drawn By R Wakefield
Drawing Number SD-130-RDW	Rev. 01

INSTALLATION NOTES

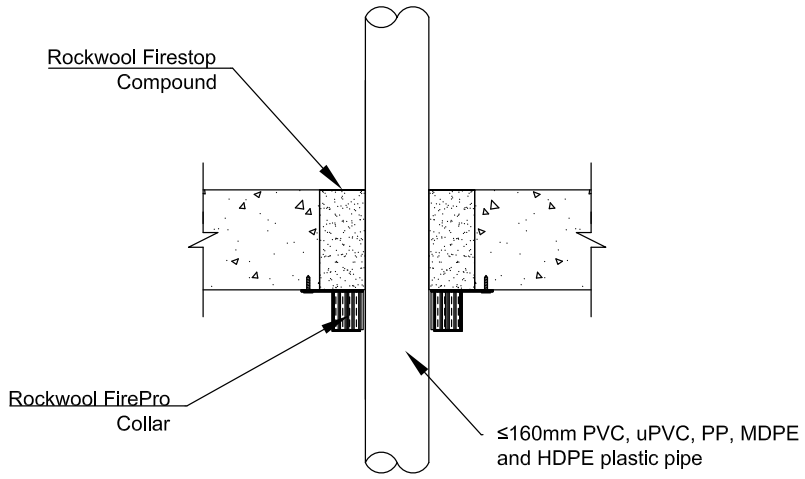
1. Make good floor around plastic pipe with either ROCKWOOL Acoustic Intumescent Sealant or Firestop Compound.

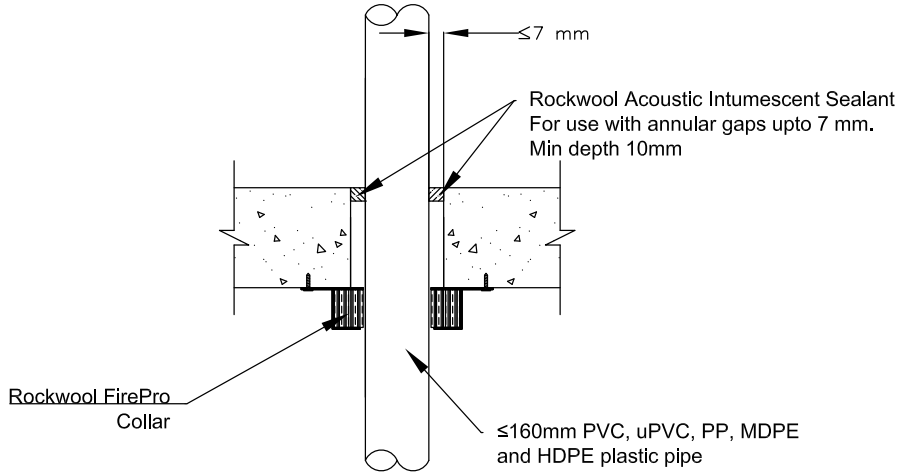
2. Undo the toggle clip on the Firestop Pipe Collar and open it out.

3. Slide the Firestop Pipe Collar, with its fixing tabs pointing up towards the face of the soffit, around the plastic pipe.

4. Lock the Firestop Pipe Collar around the pipe closing the toggle clip. Push the Firestop Pipe Collar back on to the soffit.

5. Fix the Firestop Pipe Collar to the soffit by means of 32mm long steel self-tapping screws, through the fixing tabs.





Standard Detail - Firestop Pipe Collar: Floor Seal

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

The pipe wall thickness shall be Min 2.5mm or Max 7mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the seal.

Integrity Performance	Insulation Performance
Up to 120 Minutes	Upto 120 Minutes

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TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

Project Title

Drawing Title

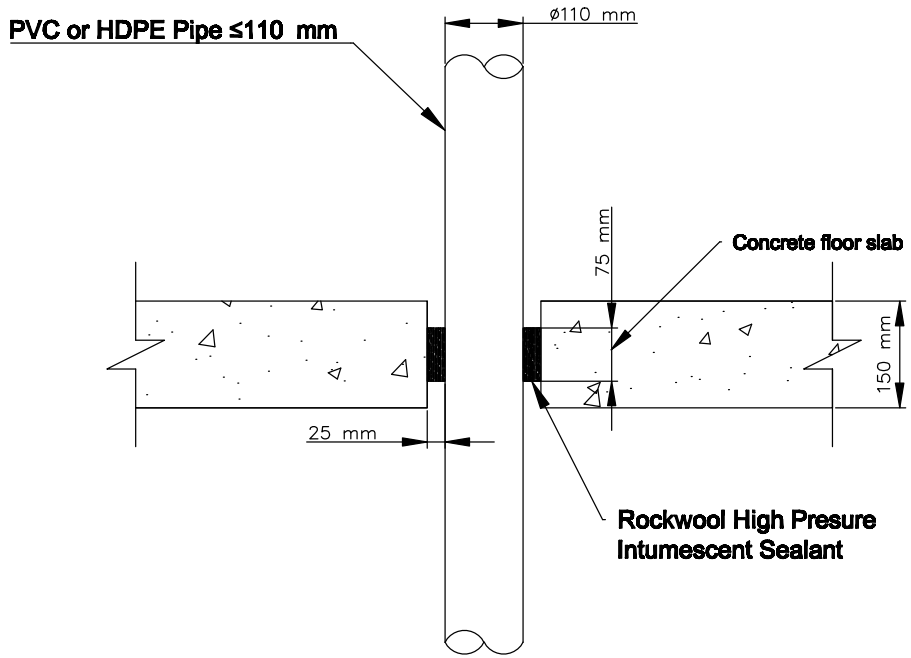
Rockwool Firestop Pipe Collar: Floor Seals

Scale	Date
NTS	08.07.14
Sheet Size	Drawn By R Wakefield
Drawing Number SD-131-RDW	Rev. 01

INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Apply Rockwool High Pressure Intumescent Sealant to the required 75 mm depth floor slab. The annular gap around the pipe should be 25 mm.



Standard Detail: PVC & HDPE pipes through concrete floor with High Pressure Intumesce Sealant

The concrete floor slab muct be capable of achieving the required fire rating of the proposed fire stopping

The High Pressure Intumescent Sealant shall be installed in accordance with Rockwool installation guidelines.

All pipes shall be supported either side of the compartment floor by no more than 500 mm.

Integrity Performance	Insulation Performanc
90 Minutes	90 Minutes

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Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 0011
f: 0871 222 1781

Client

Project Title

Drawing Title

High Pressure Intumescent Sealant for plas pipes passing through a concrete floor

Rockwool Fire Stopping Technical Support: 0871 222 0011

Scale	Date
NTS	20.01.2013
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-105-RDW	Rev.

INSTALLATION NOTES

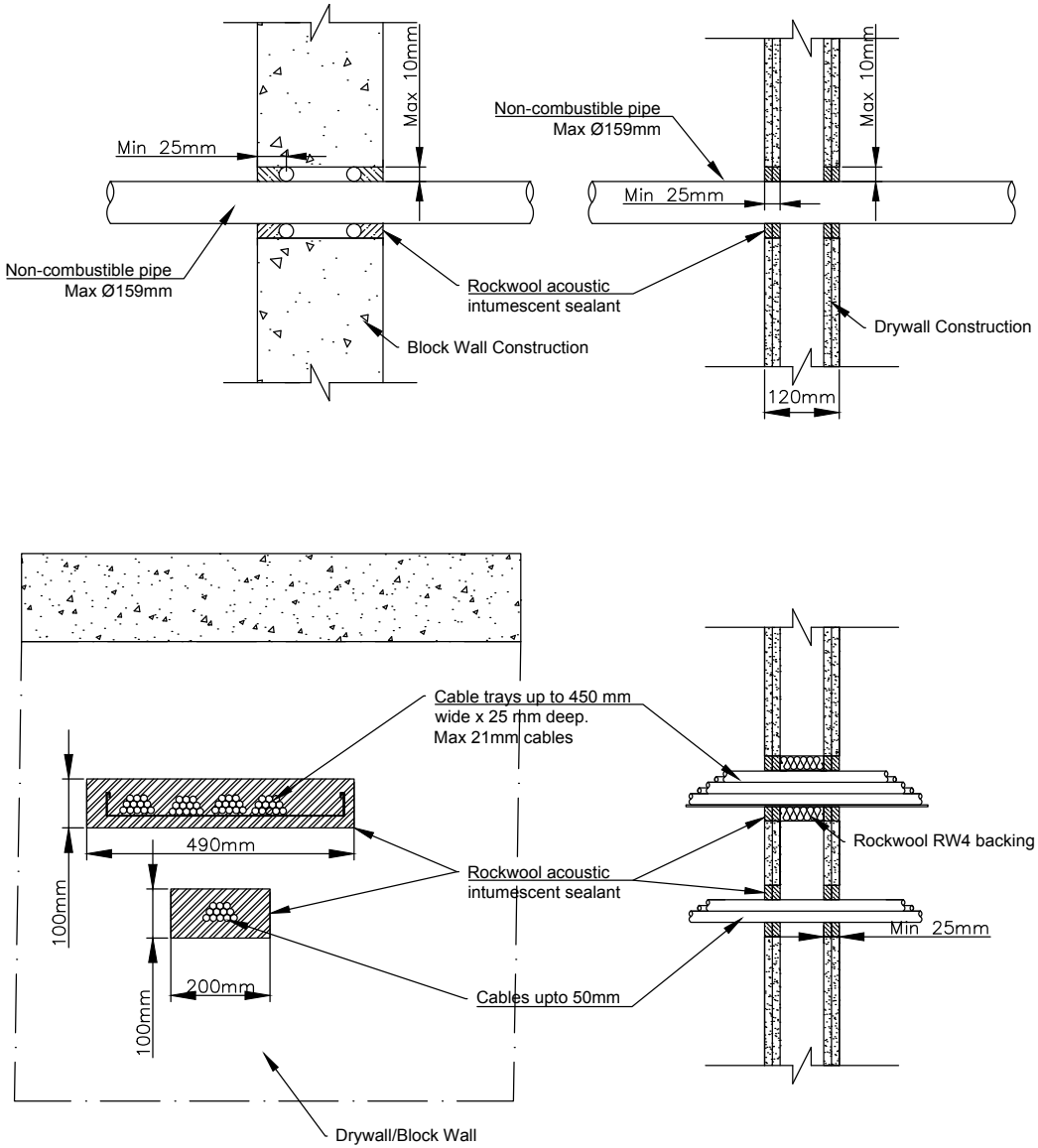
1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Ensure that the surface is free from any bond breaking contaminants prior to application of sealant.

3. Install the backing material around the service item to allow for the minimum allowable seal depth. The backing material can consist of either stone wool packed around the service or a PE backing rod.

4. Install the Rockwool Acoustic Intumescent Sealant to the required depth ensuring a smooth tight finish with both the service item and the substrate.

5. Repeat step 3 and 4 on the other side of the wall.



Standard Detail - Acoustic Intumescent Sealant with single pipe/cable

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

Flexible wall construction must be installed in accordance with the manufacturer's guidelines. The Wall construction should be of a minimum thickness of 120 mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the coated batt.

Backing material to control depth of sealant can be either a PE backing rod or Rockwool insulation packed into the annular space.

Where insulation is required from metallic pipes then the service item will need to be lagged with Rockwool Fire Tube or H&V Section. Please contact Rockwool technical for further details.

Pipe Integrity Performance	
Up to 120 Minutes	
Cable Integrity Performance	Cable Integrity Performance
Up to 120 Minutes (21-50mm Cables 90 Minutes)	Up to 120 Minutes (21-50mm Cables 60 Minutes)

ROCKWOOL® FIRESAFE INSULATION

TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 01656 862621
email: technical.solutions@rockwool.co.uk

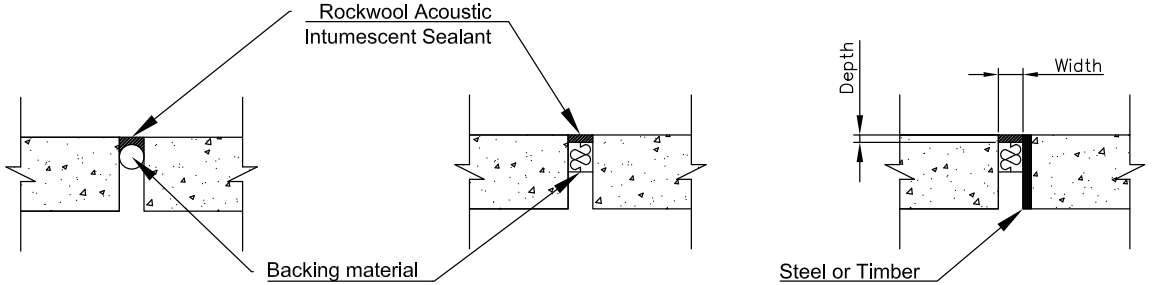
Client

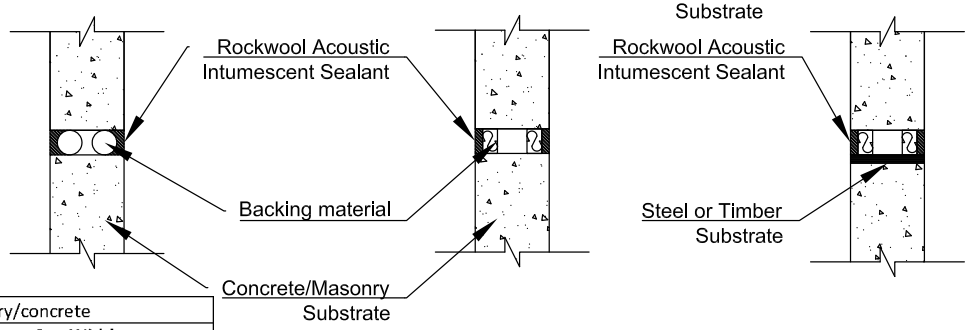
Project Title

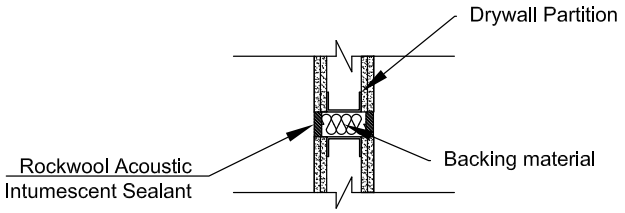
Drawing Title

Acoustic Intumescent Sealant with single pipe/cable

Scale	Date
NTS	05.12.2016
Sheet Size	Drawn By R Wakefield
Drawing Number SD-128-RDW	Rev. 05







Vertical or Horizontal Seals between masonry/concrete

Seal Depth (mm)	Backing Material	Gap Width Integrity & Insulation (Minutes)		
		15mm	30mm	50mm
15	Polyethylene rod	240	240	120
15	Rock fibre	240	240	120
30	Polyethylene rod	240	240	120
30	Rock fibre	240	240	120

Vertical or Horizontal Seals between masonry and Hardwood

Seal Depth (mm)	Backing Material	Gap Width Integrity & Insulation (Minutes)		
		15mm	25mm	50mm
15	Polyethylene rod	60	30	NA
15	Rock fibre	60	30	NA
25	Polyethylene rod	90	90	90
25	Rock fibre	90	90	90

Vertical or Horizontal Seals between masonry and Steel

Seal Depth (mm)	Backing Material	Gap Width Integrity & (Insulation) Minutes		
		15mm	25mm	50mm
12	Polyethylene rod	240 (30)	120 (30)	NA
12	Rock fibre	240 (30	120 (30	NA
30	Polyethylene rod	240 (60)	120 (60)	90 (60)
30	Rock fibre	240 (60)	120 (60)	90 (60)

Vertical or Horizontal Seals between masonry and Softwood

Seal Depth (mm)	Backing Material	Gap Width Integrity & Insulation (Minutes)	
		15mm	25mm
15	Polyethylene rod	60	30
15	Rock fibre	60	30

Vertical seals between masonry and plasterboard

Seal Depth (mm)	Backing Material	Gap Width Integrity & Insulation (Minutes)	
		15mm	25mm
10	Rock fibre	120	120

Standard Detail - Acoustic Intumescent Sealant - Joint Seals

Installation Notes

Where Rock Fibre insulation is to be used as a backing material then the required depth to achieve the detailed fire ratings is the width of the joint +10mm.

All surfaces must be thoroughly cleaned and free of bond breaking contaminants prior to application of the sealant.

Integrity Performance	Insulation Performance
See Table	See Table

ROCKWOOL
FIRESAFE INSULATION
TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
email: technical.solutions@rockwool.co.uk

Client

Project Title

Drawing Title

Acoustic Intumescent Sealant joint seals

Scale	Date
NTS	21.04.2015
Sheet Size	Drawn By R Wakefield
Drawing Number SD-137-RDW	Rev. 01

INSTALLATION NOTES

A permanent shuttering made from 50mm ROCKWOOL slab (minimum density 140kg/m3) is cut and friction fitted between services and the edges of the floor slab. Firestop Compound Is then trowelled over the shutter to a depth of 25mm thick. This is allowed to cure. Further Firestop Compound is then mixed to a pouring grade and tops the seal up to the required depth.

Floor openings

1) A bag of compound to 10 litres water (3:1) by volume. Vary to suit site conditions

2) Set the shuttering into the opening ensuring a tight fit so that once the required depth of Compound is installed it finishes flush with the floor slab/screed unless otherwise specified

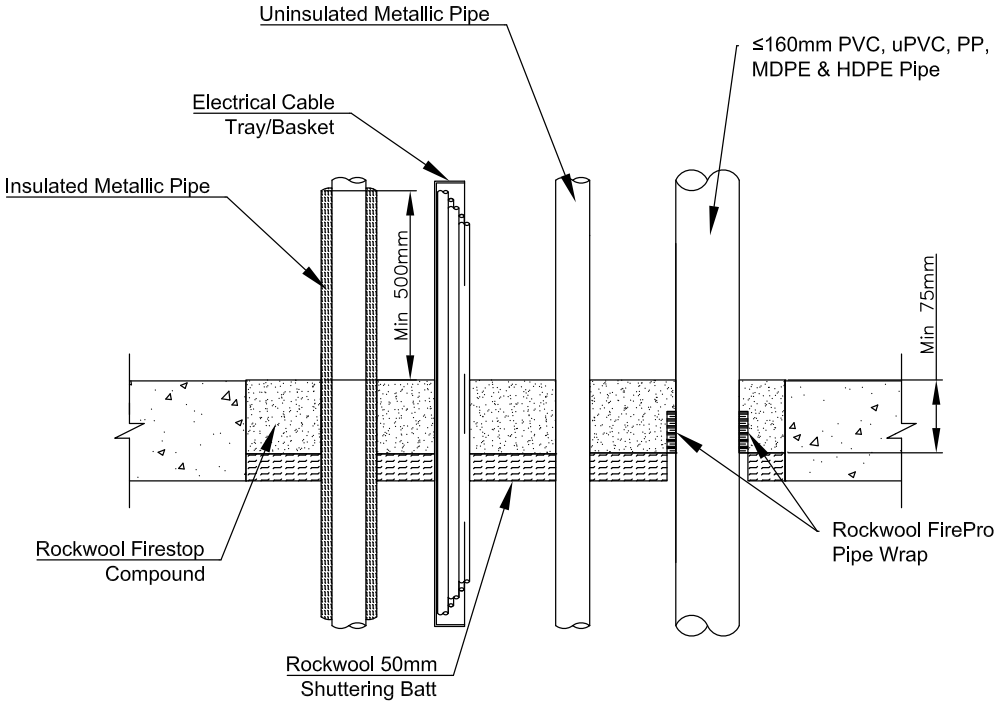
3) Mix and pour compound until the required thickness is achieved.

Reinforcement

Reinforcing of the compound requires either 12mm diameter bars or 40mm (high)x 60mm steel angle fixed across the short span of the aperture. The bars should be installed at 200mm centres across the aperture and may be installed such that they are recessed Into the surrounding structure by minimum 50mm on both sides or supported on an steel angle securely fixed to the structure.

Steel angle reinforcement shall be installed at 250mm centres and shall be bolted back to supporting angle, which is fixed back to the structure. The support angle for rod or angle reinforcement shall be 50mm x 50mm x 1.6mm and shall be securely fixed back to the structure with nominally 8mm steel anchor bolts at a maximum of 200mm centres.

In all instances the reinforcement shall be positioned approximately 30mm above the bottom surface of the compound to ensure adequate fire protection from below.



Service type	60 Minutes		90 Minutes		120 Minutes		240 Minutes	
	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation	Integrity	Insulation
75mm Blank seal up to 500 mm x 500 mm*	✓	✓	✓	✓	✓	✓		
100mm Blank seal up to 750 mm x 750 mm*	✓	✓	✓	✓	✓	✓	✓	✓
75mm Seal with services no reinforcement - 500mm x any length*	✓	✓	✓	✓	✓	✓		
100mm Seal with services no reinforcement - 750mm x any length*	✓	✓	✓	✓	✓	✓	✓	✓
100mm Seal with services, Simply Reinforced - 1500mm x any length*	✓	✓	✓	✓	✓	✓	✓	✓
bunched cables ≤100 mm	✓	✓	✓		✓			
Cables ≤ 58mm	✓	✓	✓		✓		✓	
Steel pipes ≤165 Unlagged	✓		✓		✓		✓	
Steel pipes ≤165 lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	
Copper pipes ≤ 108 mm lagged with Fire Tube	✓	✓	✓	✓	✓	✓	✓	
Copper pipes ≤ 108 mm unlagged	✓		✓		✓		✓	
≤160mm PVC, uPVC, PP, MDPE & HDPE pipe Rockwool Firestop Collar	✓	✓	✓	✓	✓	✓		
Fire Damper up to 1000mm x 1000mm#	✓		✓		✓			

* Load bearing performance in line with BS6399 for workspaces and cupboards
\# For Fire Dampers see specific standard details

Standard Detail - Firestop Compound - Floor

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

All service items should be adequately supported either side of the Firestop to ensure that no Ipermanent oad is transferred onto the coated batt.

The Firestop compound is designed to accommodate light foot traffic in line with BS6399 for workspaces and cupboards

Integrity Performance	Insulation Performance
Up to 240 Minutes	Upto 240 Minutes

ROCKWOOL

TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
f: 0871 222 1781

Client

Project Title

Drawing Title
Rockwool Firestop Compound: Floor Seals

Scale	Date
NTS	13.07.14
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-132-RDW	Rev.: 01

INSTALLATION NOTES

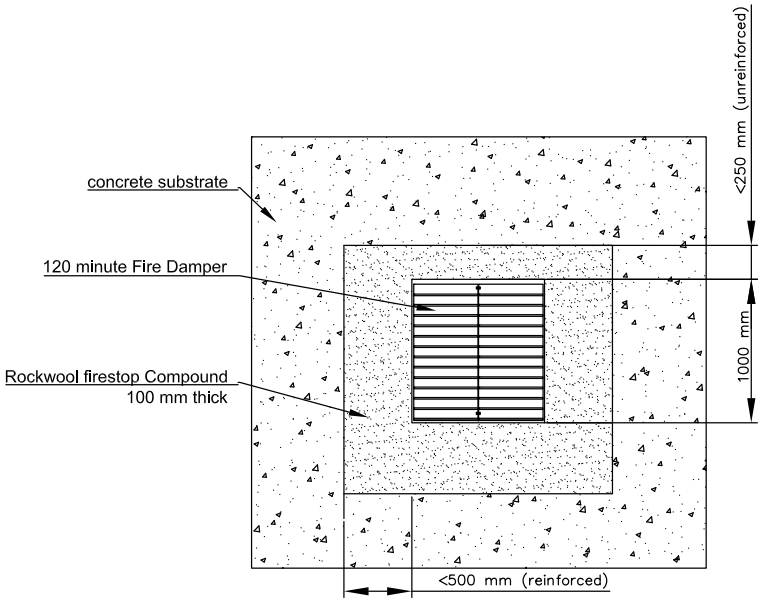
1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

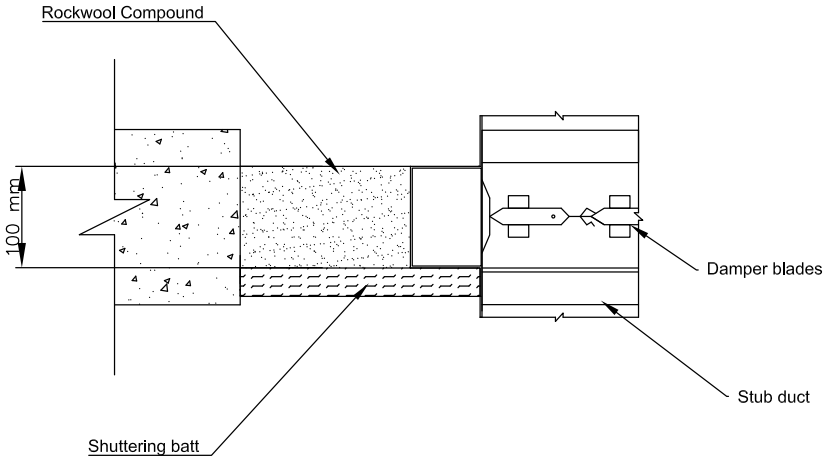
2. Ensure that the Damper is independently supported in accordance with the manufacturer's guidelines and within a suitable HEVAC frame.

3. Cut and friction fit a 50 mm Rockwool slab (minimum density 140 kg/m3) between the damper casing and concrete floor.

4. Firestop Compound is then trowelled over the shutter to a depth of 25mm thick, which is then allowed to cure.

5. Further Firestop Compound is then mixed to a pouring grade and tops up the seal to the required 100 mm depth.





The published fire ratings have been achieved by following the instructions set out above. Use of alternative components or deviations from the instructions in any way is likely to mean that the installation will not comply with the assessed rating. Rockwool Ltd. does not accept responsibility for the consequences of using Rockwool products in applications or for purposes not authorised by Rockwool Ltd. Expert advice should be sought where such applications are contemplated.
The information contained in this drawing is believed to be correct at the date of publication, and is based upon tested and certified solutions. The policy of Rockwool Ltd. is one of constant improvement. Installers should therefore ensure that they are working from the latest published drawings and instructions. Whilst Rockwool will endeavour to keep its publications up to date the accuracy of the information contained within this drawing may be affected by pertinent changes in the law or regulatory requirements and alterations or amendments to the specification of Rockwool products.

Rockwool Fire Stopping Technical Support: 0871 222 0011

Horizontal Damper Applications with Rockwool Firestop Compound

The concrete floor slab must be capable of supporting the damper and achieving the required 120 minutes Fire Rating as detailed within this drawing.

The damper assembly MUST be installed in accordance with HVCA document DW/145 and installed within a suitable HEVAC frame.

Aperture Size: The maximum damper size is 1000 mm. The maximum annular space for unreinforced compound seals around the damper is 250 mm. The maximum reinforced annular space around the damper is 500 mm,

Integrity Performance	Insulation Performance
120 Minutes	0 Minutes

ROCKWOOL LIMITED
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 0011
f: 0871 222 1781

Client

Project Title

Drawing Title
Fire Damper within a concrete floor

Scale	Date
NTS	01.05.2013
Sheet Size	Drawn By R Wakefield

Drawing Number
SD-114-RDW-Firestop Compound & Horizontal Damper

Rev.

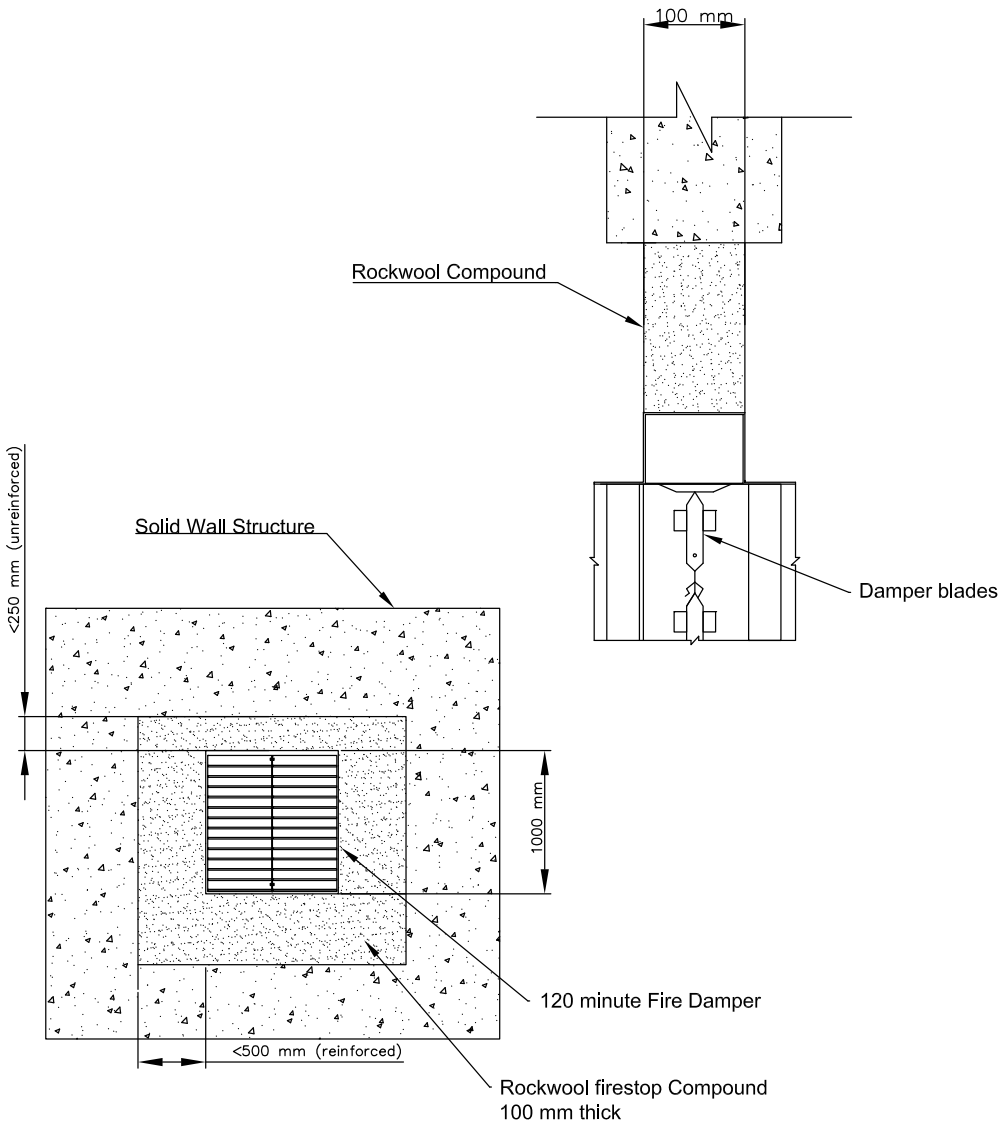
INSTALLATION NOTES

1. Make sure that the area within the aperture is clean of any debris and remove any dust from the edges.

2. Ensure that the Damper is independently supported in accordance with the manufacturer's guidelines and within a suitable HEVAC frame.

3. Cut and friction fit a 50 mm Rockwool slab (minimum density 140 kg/m3) between the damper casing and the wall aperture in accordance with installation C of the product data sheet.

4. Trowel the compound, starting at the base of the opening ensuring the correct thickness is installed (100mm). Work progressively towards the top of the opening until the seal is complete.



Vertical Damper Applications with Rockwool Firestop Compound in Solid Walls

The solid wall structure must be capable of supporting the damper and achieving the required 120 minutes Fire Rating as detailed within this drawing.

The damper assembly MUST be installed in accordance with HVCA document DW/145 and installed within a suitable HEVAC frame.

Aperture Size: The maximum damper size is 1000 mm. The maximum annular space for unreinforced compound seals around the damper is 250 mm. The maximum reinforced annular space around the damper is 500 mm,

Integrity Performance	Insulation Performance
120 Minutes	0 Minutes

ROCKWOOL LIMITED
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 0011
f: 0871 222 1781

Client

Project Title

Drawing Title
Fire Damper within a Solid wall

Scale	Date
NTS	22.05.2013
Sheet Size	Drawn By R Wakefield

Rockwool Fire Stopping Technical Support: 0871 222 0011

Drawing Number	Rev.
SD-115-RDW-Wall-Damper With Compound	02

INSTALLATION NOTES

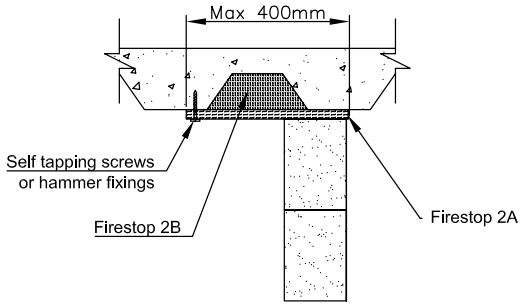
1. Linear Firestop 2A must be fitted as rectangular pieces, tightly butt jointed and compressed by at least 5% thickness.

2. Up to 3 layers may be used. All layers shall be installed simultaneously. The height of the void shall not exceed the width of the Firestop.

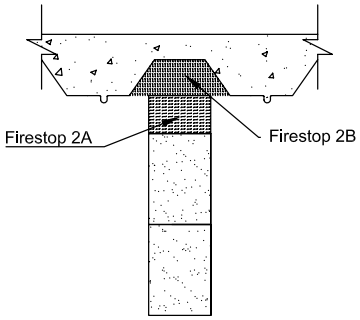
3. Small holes may be filled with Rockwool Acoustic Intumescent Sealant if necessary.

4. Trapezoidal Firestop 2B shall be ordered to suit the profile type. The Firestop shall be installed under a tight fit.

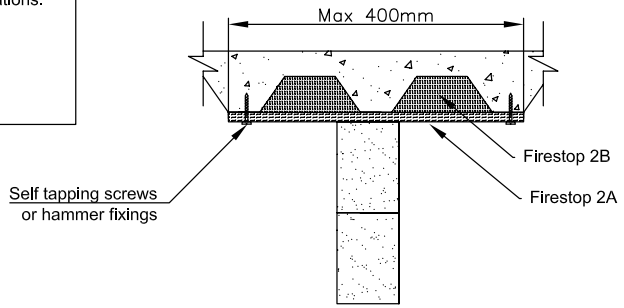
5. Dovetail Infill Firestop Strip shall are supplied as narrow rectangular strips for a pinched installation into the nominated dovetail shaped deck. The Firestop shall be installed with vertical laminations.



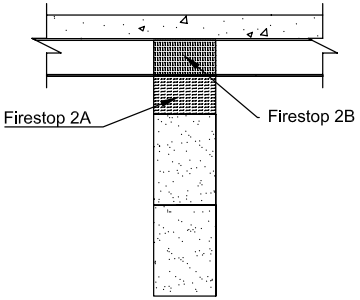
Single deck profile running in line, but asymmetrical with the wall line



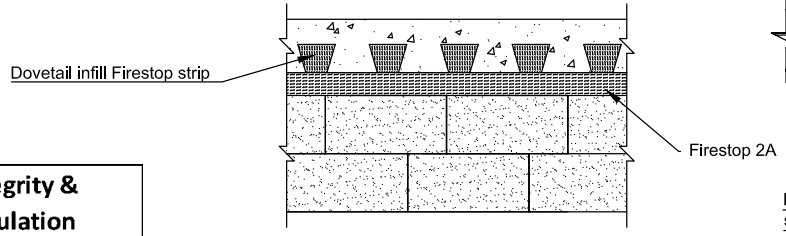
Deck profiles running in line with the wall



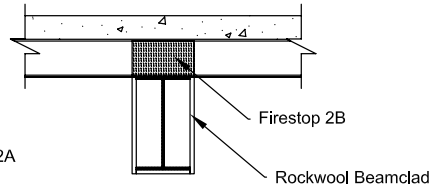
Two deck profiles running in line, but asymmetrical with the wall line



Deck profiles running across the wall



Dovetail infill strips running over Firestop 2A



Deck profiles running across a supporting steel beam with a boxed protection

Wall Thickness	Integrity & Insulation
	2A with 2B
100mm	2 hours
150mm	3 hours
200mm	4 hours

Standard Detail - Linear & Trapezoidal Firestop Systems

Integrity Performance	Insulation Performance
See table	See table

ROCKWOOL
FIRESAFE INSULATION
TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
email: technical.solutions@rockwool.co.uk

Client

Project Title

Drawing Title

Linear & Trapezoidal Firestop Systems

Scale	Date
NTS	24.04.2015
Sheet Size	Drawn By
	R Wakefield
Drawing Number	Rev.
SD-134-RDW	01

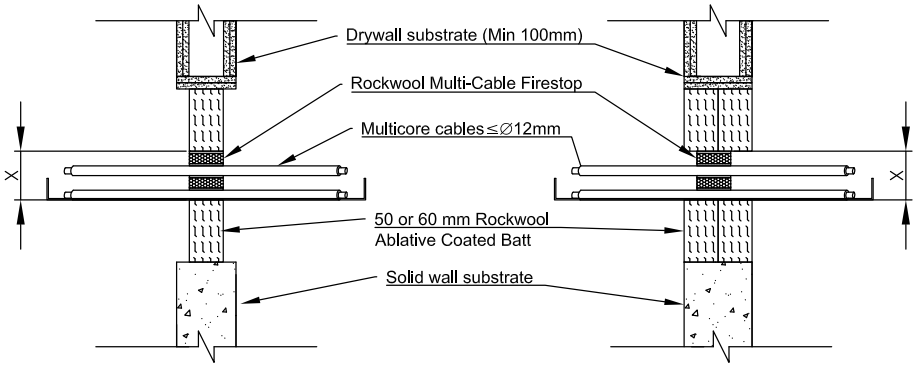
INSTALLATION NOTES

1. Cut the product to length to suit the width of the cable tray or electrical trunking to be fire stopped.

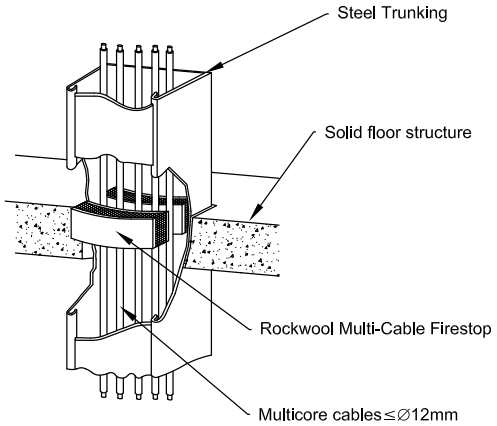
2. Multi-Cable Firestop is then layered to fill the complete void so that the 60mm width lies across the thickness of Rockwool Ablative Coated Batt. Where two coated batts are installed then the Multi-Cable Firestop shall be installed centrally within the seal.

3. Where multiple layers of cables exist then the Multi-Cable Firestop shall be installed between the different layers.

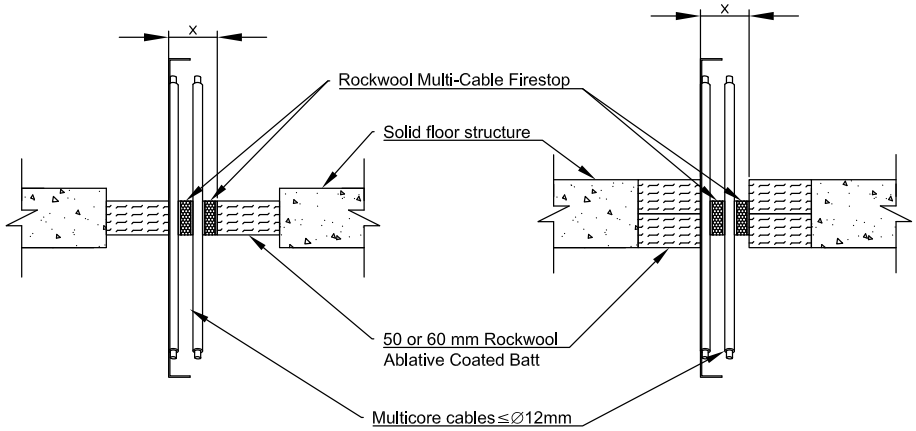
4. Ensure that electrical trunking lids are replaced once the product has been installed.



Vertical Coated Batt Seal (50 or 60mm)	Seal Width	Gap Depth 'X'		
		25mm (1ply)	55mm (2 ply)	80mm (3 ply)
		Integrity Performance (Minutes)		
Single Batt	60	180	120	120
Double Batt	60	240	240	240



Trunking Installation



Horizontal Coated Batt Seal (50 or 60mm)	Seal Width	Gap width 'X'	
		25mm (1ply)	55mm (2 ply)
		Integrity Performance (Minutes)	
Single Batt	60	180	120
Double Batt	60	240	240

Standard Detail - Multi-Cable Firestop In Batt

NOTES

Rockwool Ablative coated batt shall be installed in accordance with manufacturers installation guidelines.

The fire ratings included within this standard detail reflect the maximum achievable within the specific coated batt seal configuration. The actual fire rating of the coated batt seal can however be different depending upon the seal size and substrate type and it is therefore important to consult the specific Rockwool standard detail for the batt configuration used.

Integrity Performance	
up to 240 Minutes	

ROCKWOOL
FIRESAFE INSULATION
TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
email: technical.solutions@rockwool.co.uk

Client

Project Title

Drawing Title

Multi-Cable Firestop: Single & Double Layer Ablative Coated Batt Application Range

Scale	Date
NTS	08.04.2015
Sheet Size	Drawn By
	R Wakefield
Drawing Number	Rev.
SD-135-RDW	01

INSTALLATION NOTES

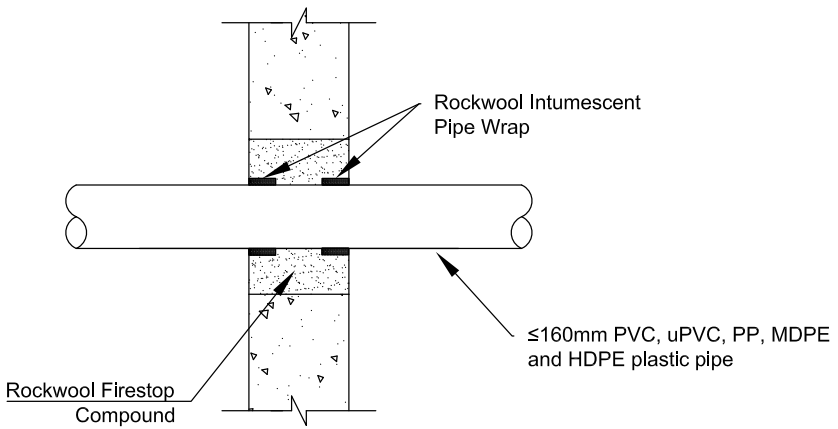
1. Check the pipe surface is clear of mortar.

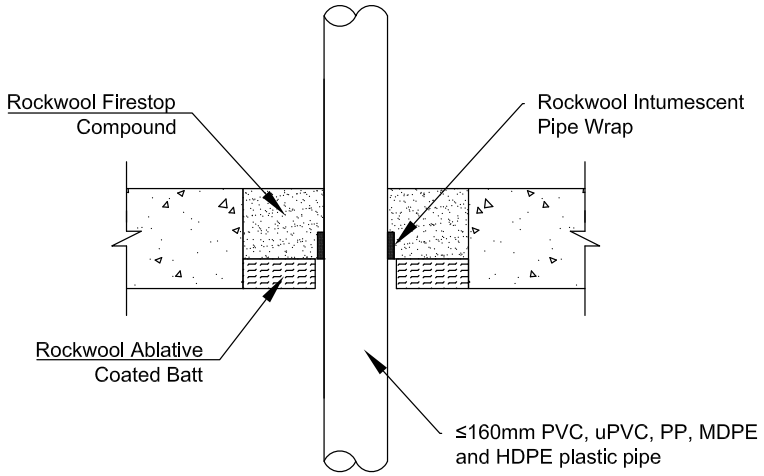
2. Ensure the appropriate Intumescent pipe wrap has been selected to suit the outside pipe diameter and the required fire rating.

3. Wrap the pipe wrap around the pipe and fix with integral self-adhesive strip.

4. Slide into position ensuring that either the bottom edge of the wrap is exposed in a floor slab or that both edges are exposed oin a wall. Two wraps are necessary in a wall application where the thickness exceeds100mm.

5. Seal the Rockwool Intumescent Pipe Wrap into the opening with Rockwool Firestop compound





Pipe Ø (mm)	Pipe Wrap Size (Width x Thickness)	
	Integrity and Insulation Performance	
	120 Minutes	240 Minutes
55	50mm x 4mm	50mm x 8mm
82	50mm x 8mm	75mm x 8mm
110	50mm x 8mm	100mm x 8mm
160	100mm x 20mm	100mm x 20mm

Standard Detail - Intumescent Pipe Wrap In Walls & Floors

The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.

The pipe wall thickness shall be Min 2.5mm or Max 7mm.

All service items should be adequately supported either side of the Firestop to ensure that no load is transferred onto the seal.

Integrity Performance	Insulation Performance
Up to 240 Minutes	Up to 240 Minutes

ROCKWOOL
FIRESAFE INSULATION
TECHNICAL SOLUTIONS
Pencoed, Bridgend,
South Wales CF35 6NY
t: 0871 222 1780
email: technical.solutions@rockwool.co.uk

Client

Project Title

Drawing Title

Intumescent Pipe Wrap In Walls & Floors

Scale	Date
NTS	12.04.2015
Sheet Size	Drawn By: R Wakefield
Drawing Number: SD-136-RDW	Rev. 01

Notes

ROCKWOOL Limited
Pencoed
Bridgend
CF35 6NY

26 - 28 Hammersmith Grove
Hammersmith
London
W6 7HA

Technical Solutions Team
01656 862621

info@rockwool.co.uk
www.rockwool.co.uk

ROCKWOOL®