



## **FIRESTOPPING PROJECT DETAILS**

Project: Wharfedale Hospital

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Main Contractor: BAM Construction

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Firas URN: TE2451

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## **Firestopping Package at Wharfedale Elective Care Hub for**

### **BAM Construction**

### **Agreed Scope of Works**

- Sparta are to provide Fire Stopping works under the following scenarios (Anything not mentioned such as Profiled Deck Fillers and Beam Encasements are deemed to be excluded from Firestopping and likely carried out in line with the General Drylining Package scope):
  - Penetrations Seals through Fire Rated Walls
  - Penetration Seals through Fire Rated Floors
  - Linear Seals between Blockwork and Steelwork and between Blockwork and Concrete (Not covered under Firas Accreditation but will be logged on Bolster)
  - Penetrations Seals through Acoustic Rated Walls (Not covered under Firas Accreditation but will be logged on Bolster)
  - Fire Barriers above Ceilings and penetrations of services through them (Installed to manufacturers details but not covered under Firas Accreditation – Penetrations will also be recorded on Bolster)
- The maximum fire rating required on the project is 60 minutes through walls and 60 minutes through floors.
- The project is a mixture of existing partitions, existing services, new partitions and new services all within a live hospital setting. The ratings mentioned above are to be achieved through tested solutions wherever possible. If there has to be a choice over Integrity Rating or Insulation Rating then Fire Integrity rating will be prioritised over Fire Insulation rating.
- It has been agreed that existing services through existing partitions won't be carried out by Sparta unless specifically instructed by BAM.
- Fire Barriers required above ceiling level will be installed to manufacturers recommendations and these will fall outside the scope of Sparta's 3<sup>rd</sup> Party Certification.
- If for some reason a service penetration can't be sealed to meet the Fire Rating required in line with a tested solution (i.e. no access or services not installed correctly or where we don't have enough information about the existing partition or service) then it has been agreed with BAM that we will install as close to a tested solution as possible and log appropriately on Bolster so that these can be easily identified and the information can then be passed on, at completion, to the client.
- Sparta's chosen product manufacturer is Rockwool, we will endeavour to carry out all works with Rockwool tested details, which on occasion will include using other manufacturers' products in conjunction with Rockwool, such as Ultra Universal Pipe Wrap or Mulcol Multicollar, both of which are supported by Rockwool in certain applications.
- As discussed previously we will be following the guidance in Approved Document B Volume 2, Section B3, Subsection 10. This states that the openings around pipes up to a certain diameter (Table given within this project pack) can have the opening sealed to the pipe as long as the opening around the pipe is kept as tight as possible, essentially:
  - Cast Iron / Copper / Steel pipes/conduits under 160mm Diameter will not require additional H&V insulation, where insulation is already installed by others and is Rockwool compliant this will be sealed around with Mastic, where the insulation cannot be identified a closing seal (such as Pipe Wrap Roll or HE Mastic will be installed to crush the insulation in the event of a fire).
  - Any other Material pipes under 40mm Diameter will not require H&V insulation (if Non-Combustible) nor will they require a closing device (if they are combustible).

They will just be sealed tight around the pipe. Where insulation is already installed by others and is Rockwool compliant (H&V Insulation) this will be sealed around, where the insulation cannot be proven to be Fire Resistant a closing seal (such as Pipe Wrap Roll or HE Mastic will be installed to crush the insulation in the event of a fire).

- Other Significant things to note:
  - Ducts through fire rated walls should already have dampers on them. Where a damper (such as the BSB & ActionAir DWFX-F) do not require any work other than the opening forming in the partition, this will not be recorded on Bolster and will fall outside of the Firas Accreditation. Where a damper requires a specific visit after the damper has been installed, to install an ablative Batt seal then these will be recorded through Bolster and will be installed under the Firas Accreditation. Where BAM have provided details, Sparta will include the Damper Types that will require works under this accreditation within this project pack.
  - In the event there are any **combustible pipes** that have insulation on them, this insulation will be cut very locally to allow a fire collar or similar closure device to be installed.
  - Where there are non-combustible and combustible pipes coming through the floor the Combustible pipes should be 200mm away from any other pipes (including other combustible pipes). Non-combustibles can be close to each other but not within 200mm of a combustible.
  - Bends and knuckles/Joints should not be installed within 55mm of the face of the partition/floor that the Service is passing through in order for a closing device to be installed. There may be scope on this in some locations but always better to leave the space than not.
  - Where Builderswork holes have been formed around Beams we are sealing these in accordance with recent rockwool test data that has been provided directly by Rockwool and isn't on their standard details pack just yet, this data has been included within our project pack. As with other seals Integrity rating is prioritised over insulation rating.

Revisions to this scope will be logged below as the project progresses.

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**Scope read and understood by Sparta Management:**

<u>Name</u>	<u>Position</u>	<u>Signed</u>
Mathew Bates	Director	
Andrei Bagrin	Site Manager	
Simon Jones	Director	



## **FIRESTOPPING PROJECT DETAILS**

- **Vertical Details (Through Walls)**



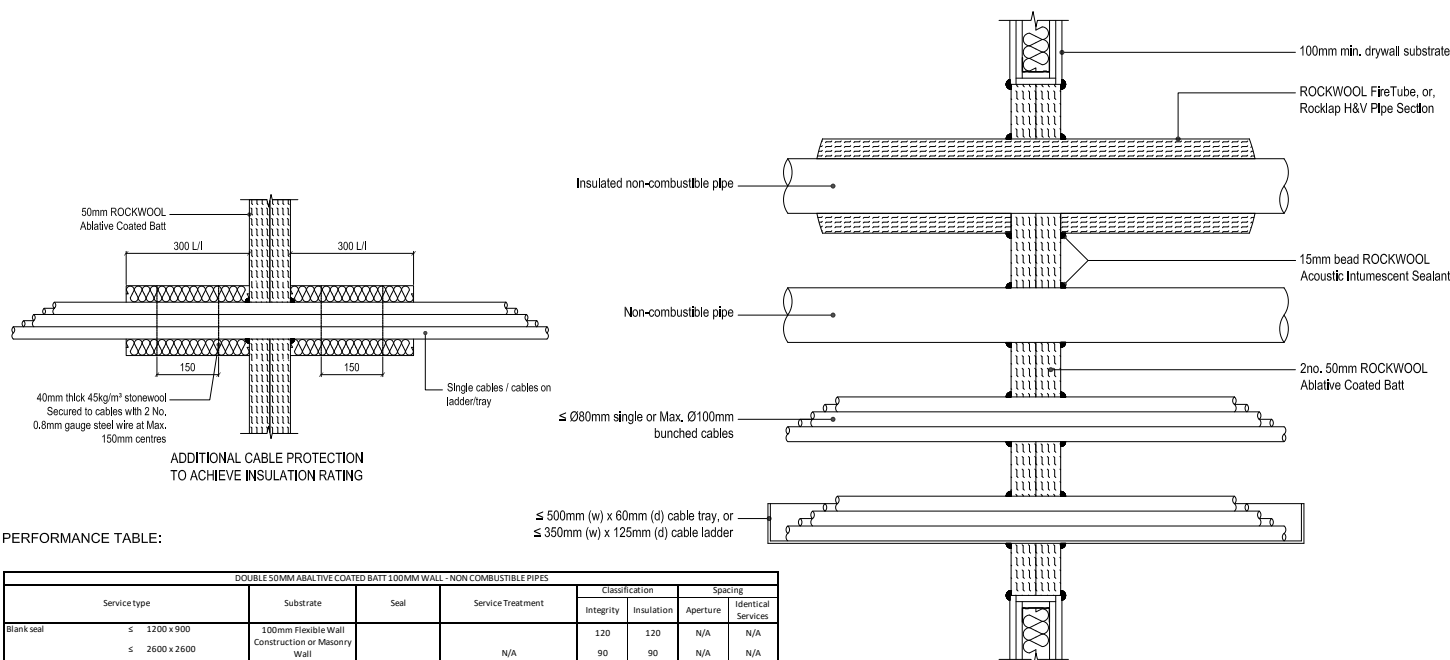
Matrix of Solutions - Through Walls - Where Pipes are Lagged with H&V Insulation				
	A	B	C	D
	Dampers	Cable Trays & Baskets	Plastic Pipes and Conduits	Non Combustible Pipes and conduits (If Lagged this is assumed to be H&V Section)
Non Fire Rated Walls	Seal up to Ducts that pass through NFR Walls the same as C & D	<p>* If through Letterbox then 2 layers of 50mm Ablative Batt fitted into formed opening and acoustic mastic both sides of wall; make sure both faces finish flush</p> <p>* If no preformed opening exists then Ablative Batt Pattress fixed to the wall (with screws that penetrate by at least 12mm) and Intumescent Mastic Seal around service</p>	<p>* If Gap around opening is &lt;10mm then Acoustic Intumescent Mastic.</p> <p>* If Gap around is greater than 10mm then Ablative Batt Pattress fixed to the wall (with screws that penetrate by at least 12mm) and Intumescent Mastic Seal around service</p> <p>* If through a letterbox opening then 2 layers of 50mm Ablative Batt fitted into formed opening and acoustic mastic both sides of wall; make sure both faces finish flush</p>	
30-60 min FR Depending on Circumstance	<b><u>TBC BY BAM</u></b>	<p><b><u>Through Letterbox opening:</u></b></p> <p>*2 layers of 50mm Ablative Batt fitted into letterboxed opening and acoustic Intumescent mastic to seal services. Cables to be put into bunches of &lt;50mm diameter by M&amp;E. 0mm Separation needed to Aperture or for Cables, Baskets or Trays.</p> <p>As per Detail RWSD-ACB-0101</p> <p>Achieves 120min Integrity &amp; 60min-90min Insulation (Cable Ladder achieves 90min Integrity only).</p> <p><b><u>Where there is no Letterbox opening:</u></b></p> <p>*Install an Ablative Batt Pattress each side (Cables to be bunched in 50mm bunches by M&amp;E) Acoustic Intumescent Mastic seal to the services. As per detail RWSD-ACB-0201</p> <p>Cables &amp; Tray Achieve 120min Integrity &amp; 60-90min Insulation</p> <p>Ladder Achieves 90min Integrity &amp; 90min Insulation</p> <p><b><u>Other Options where openings cut neatly:</u></b></p> <p><b>Option 1 up to 60min Locations:</b> *Bunched Cables (not on a tray) up to 100mm overall diameter, where cables are no bigger than 21mm dia. each (Holes must be cut tight or no larger than 10mm annular gap) RWA45 Insulation backing and then Intumescent Acoustic mastic seal, to a depth of 12.5mm, all the way round. As Detail RWSD-AIS-0110</p> <p>Achieves 60min Integrity &amp; 45min Insulation</p> <p><b>Option 2 up to 90min Locations (Double Boarded Walls):</b></p> <p>*Bunched Cables up to 50mm overall diameter (by M&amp;E); Holes must be cut tight or no larger than 10mm annular gap then Intumescent Acoustic mastic seal, to a depth of 25mm, all the way round. If gap exceeds 10mm then multiple visits and backing insulation may be required (additional costs) As Detail RWSD-AIS-0220</p> <p>Achieves 90min Integrity &amp; 60min Insulation</p>	<p><b><i>Plastic pipes up to 40mm can be sealed tight to the wall to meet the requirements of Approved Doc B, Section B3, subsection 10</i></b></p> <p><b><u>Through Letterbox opening:</u></b></p> <p>* PVC, HDPE &amp; PP 32mm - 160mm Dia. (1.8mm - 14.6mm pipe wall thickness) - 2 layers of 50mm Ablative Batt with a Pipe collar installed to each side of the batt. As detail RWSD-COL-0002</p> <p>Achieves 120min Integrity &amp; 120min Insulation</p> <p>Maximum Aperture for this should be: 1,200mm x 730mm</p> <p>For cPVC Pipes see detail RWSD-HE-0051 (Max Aperture size 600mm x 400mm)</p> <p><b><u>Through Double Boarded Partitions:</u></b></p> <p>* Plastic Pipes 40mm - 160mm with &lt;10mm annular gap - install collars providing there is 200mm separation between the next closest firestopped pipe. As Detail RWSD-COL-0001</p> <p>Achieves 120min Integrity &amp; 120min Insulation</p> <p>* Plastic Pipes 40mm - 160mm with &gt;10mm annular gap or if there is &lt;200mm separation to other service: use 50mm Ablative Batt as a pattress each side and install Firepro Collar. As Detail RWSD-COL-0003</p> <p>Achieves 120min Integrity &amp; 120min Insulation</p> <p>Maximum Aperture for this should be: 1,200mm x 730mm</p> <p>For cPVC Pipes see detail RWSD-HE-0054</p> <p>* Plastic Pipes (Uncommon Installs): use Multicollar Slim Collars.</p> <p>In Accordance with their tested data <b>HERE</b></p> <p>Achieves 120min Integrity &amp; 120min Insulation</p> <p>These can also be installed to Batt within letterbox scenarios</p>	<p><b><i>Uninsulated Cast Iron, Copper &amp; Steel Pipes up to 160mm can be sealed tight to the wall or Ablative Batt to meet the requirements of Approved Doc B, Section B3, subsection 10.</i></b></p> <p><b><u>Insulated Pipes Through Letterbox opening (Where Insulation installed by others is Rockwool H&amp;V section):</u></b></p> <p>*Steel pipes to 168mm dia or Copper Pipes 42mm to 108mm diameter insulated with 25mm-40mm H&amp;V Insulation by others - Install Double 50mm Ablative batt in the letterbox opening and then Seal around the H&amp;V insulation with Intumescent Acoustic Sealant. As per detail RWSD-ACB-0101</p> <p>Achieves 120min Integrity &amp; 90min Insulation Rating</p> <p>Maximum Aperture for this should be: 2,600mm x 2,600mm for max 90min rating</p> <p><b><u>Insulated Pipes Through Single &amp; Double Boarded Partitions (Where insulation installed by others is Rockwool H&amp;V section):</u></b></p> <p>*Steel pipes to 168mm dia or Copper Pipes 42mm to 108mm diameter insulated with 25 - 40mm H&amp;V Insulation by others - Install 50mm Ablative batt as a face fixed pattress and then seal around the H&amp;V with a bead of Acoustic Intumescent sealant. This is needed to both sides of the partition. As per detail RWSD-ACB-0201</p> <p>25mm H&amp;V will achieve 90min Integrity &amp; 30-60min Insulation Rating</p> <p>40mm H&amp;V will achieve 120min Integrity &amp; 120min Insulation Rating</p> <p>Maximum Aperture for this should be: 1,000mm x 1,000mm (Batt size 1,200mm x 1,200mm)</p>

Matrix of Solutions - Continued

E	
	Non Combustible Pipes and conduits (If Lagged this is assumed to not be H&V Section)
Non Fire Rated Walls	
30-60 min FR Depending on Circumstance	<p><i>Uninsulated Cast Iron, Copper &amp; Steel Pipes up to 160mm can be sealed tight to the wall or Ablative Batt to meet the requirements of Approved Doc B, Section B3, subsection 10.</i></p> <p><b><u>Insulated Pipes Through Letterbox opening (When insulation is not Rockwool H&amp;V section):</u></b>            *Steel or Copper Pipes 42 - 108mm diameter insulated with 25 - 40mm Phenolic Insulation - Install Double 50mm Ablative batt in the letterbox opening and Install 2 layers of Pipe wrap roll around the insulation on each side of the partition so that the pipe wrap roll finishes flush with the outside of the ablative Batt. Then cover the pipe wrap roll with a bead of Acoustic Intumescent sealant all the way round. <b>As per detail RWSD-PWR-0002</b>  <b>Achieves 120min Integrity &amp; 60min Insulation Rating</b>            Maximum Aperture for this should be:            1,200mm x 730mm (If larger openings then may have to revert to using H&amp;V Insulation detail (RWSD-ACB-0101)</p> <p><b><u>Insulated Pipes Through Single &amp; Double Boarded Partitions (When insulation is not Rockwool H&amp;V section):</u></b>            *Steel or Copper Pipes 42 - 108mm diameter insulated with 25 - 40mm Phenolic Insulation - Install 50mm Ablative batt as a face fixed pattress and Install 2 layers of Pipe wrap roll around the insulated pipe so that the pipe wrap roll finishes flush with the outside of the ablative Batt. Then cover the pipe wrap roll with a bead of Acoustic Intumescent sealant all the way round. This is needed to both sides of the partition. <b>As per detail RWSD-PWR-0101</b>  <b>Achieves 120min Integrity &amp; 60min Insulation Rating</b>            Maximum Aperture for this should be: 1,200mm x 730mm (If larger openings up to 1,200mm x 1200mm then may have to revert to using H&amp;V Insulation detail (RWSD-ACB-0201)</p>

Disclaimers				
	A	B	C	D
	Dampers (FD M9 & FD_C)	Cable Trays & Baskets	Plastic Pipes and Conduits	Non Combustible Pipes and conduits
30-60min Fire Rated Walls		<p>If there are no other services going through the opening then the Maximum Aperture sizes will be as follows:</p> <p>Maximum Aperture size when cables going through 2 Ablative Batts within Letterbox opening in a min 100mm wide partition is: 2,600mm x 2,600mm for up to 90min Walls</p> <p>Maximum Aperture size when cables going through Face Fixed Ablative Batt to a min 100mm wide partition is: 1,000mm x 1,000mm (This is due to needing a 50mm overlap so batt total coverage will be 1,200mm x 1,200mm)</p> <p>If there are other services such as Non Combustible Pipes with Pipe Wrap Roll or combustible pipe with Insulated Fire Sleeve then the aperture size will be determined by the service that has the smallest maximum aperture size</p>	<p>Maximum Aperture size when using a Pipe Collar to seal a pipe going through an Ablative Batt pattress in a double boarded min 100mm wide partition is: 1,200mm x 730mm</p> <p>Sparta Advised that insulation won't be passing through any fire walls, where the insulation is installed onto the pipe close to the wall it may need to be removed by Sparta in order for us to install the closing device solution, such as Collar or Batt &amp; Mastic:</p> <p>Bends and Joins should not be installed within 55mm of the face of the partition that the Service is passing through in order for a closing device to be installed</p>	<p>Maximum Aperture size when using H&amp;V Insulation through 2 Ablative Batts within Letterbox opening in a min 100mm wide partition is: 2,600mm x 2,600mm for up to 90min Walls</p> <p>Maximum Aperture size when using H&amp;V Insulation through Face Fixed Ablative Batt to a min 100mm wide partition is: 1,000mm x 1,000mm (This is due to needing a 50mm overlap so batt total coverage will be 1,200mm x 1,200mm)</p> <p>Any Copper Pipes below 42mm need 100mm of spacing to nearest service or to aperture of an opening, this is true in Letterbox and also if its a pattress</p> <p>A masonry wall must have letterbox style opening for services as pattress fix gives insufficient ratings for copper pipes</p> <p>Where M&amp;E have already installed Rockwool H&amp;V Insulation, this is compatible with our firestop system so we will just seal around.</p>

Disclaimers	
	E
	Non Combustible Pipes and conduits
30-60min Fire Rated Walls	<p>Maximum Aperture size when using Pipe Wrap Roll to seal an insulated pipe going through 2 Ablative Batts within Letterbox opening in a min 100mm wide partition is: 1,200mm x 730mm</p> <p>Maximum Aperture size when using Pipe Wrap Roll to seal an insulated pipe going through Face Fixed Ablative Batt to a min 100mm wide partition is: 1,200mm x 730mm</p> <p>Any Copper Pipes below 42mm need 100mm of spacing to nearest service or to aperture of an opening, this is true in Letterbox and also if its a pattress</p> <p>A masonry wall must have letterbox style opening for services as pattress fix gives insufficient ratings for copper pipes</p>



ADDITIONAL CABLE PROTECTION  
TO ACHIEVE INSULATION RATING

PERFORMANCE TABLE:

DOUBLE 50MM ABLATIVE COATED BATT 100MM WALL - NON COMBUSTIBLE PIPES									
Service type		Substrate	Seal	Service Treatment	Classification		Spacing		
					Integrity	Insulation	Aperture	Identical Services	
Blank seal	≤ 1200 x 900	100mm Flexible Wall Construction or Masonry Wall	2 No. 50mm Ablative Coated Batts	N/A	120	120	N/A	N/A	
	≤ 2600 x 2600	150mm Masonry Wall			90	90	N/A	N/A	
	≤ 1100 x 1100				120	120	N/A	N/A	
Steel pipe	≤ 168mm			100mm Flexible Wall Construction or Masonry Wall	1000mm length of 40mm H&V pipe section L/S	120	120	0mm	0mm
Copper pipe	≤ 108mm	120				120	0mm	0mm	
Steel pipe	≤ 168mm	120				90	0mm	0mm	
Copper pipe	≤ 108mm	1000mm length of 25mm H&V pipe section L/S			120	90	0mm	0mm	
Copper pipe	≤ 42				120	120	100mm	100mm	
Steel pipes	≤ 219mm				120	15	0mm	100mm	
Steel pipe	≤ 610mm	100mm Masonry Wall Construction		1000mm length of 40mm H&V pipe section L/S	180	60	0mm	100mm	
Steel pipe	≤ 610mm				N/A	180	15	0mm	100mm
Steel pipe	≤ 324mm				120	45	100mm	100mm	
Copper pipe	≤ 159mm		120	15	100mm	100mm			
DOUBLE 50MM ABLATIVE COATED BATT 100MM WALL - CABLES									
Electrical cables	≤ Ø21mm	100mm Flexible Wall Construction or Masonry Wall	N/A	120	90	0mm	0mm		
	≤ Ø22-50mm			120	60	0mm	0mm		
	≤ Ø51 - 80mm			90	60	0mm	0mm		
Perforated Tray	≤ 500mm (w) x 60mm (d) x 1.0mm (t)			120	90	0mm	0mm		
Cable ladder	≤ 350mm (w) x 125mm (d) x 1.5mm (t)			90	90	0mm	0mm		
Telecomm cables	≤ Ø100mm bundle			120	90	0mm	0mm		
Unsheathed cables	≤ Ø24mm	2 No. 50mm Ablative Coated Batts	N/A	120	45	0mm	0mm		
PVC conduits	≤ Ø16mm			120	90	0mm	0mm		
Copper Conduits	≤ Ø16mm			120	15	0mm	0mm		
Electrical cables	≤ Ø21mm			120	120	100mm	0mm		
Cable tray	≤ Ø22mm - 80mm			120	90	100mm	0mm		
Cable ladder	≤ 500mm (w) x 60mm (h) x 1.5mm (t)			120	120	100mm	0mm		
Cable ladder	≤ 350mm (w) x 125mm (d) x 1.5mm (t)	150mm Masonry Wall	40mm thick 45kg/m3 stonewool lagging (RWA45) L/I 300mm	120	120	100mm	0mm		
Telecomm cables	≤ Ø100mm bundle	150mm Masonry Wall	40mm thick 45kg/m3 stonewool lagging (RWA45) L/I 300mm	120	120	100mm	0mm		
Unsheathed cables	≤ Ø24mm			120	120	100mm	0mm		

DOUBLE 50MM ABLATIVE COATED BATT IN FLEXIBLE WALL

## ROCKWOOL Standard Detail:

Supporting Evidence: WF335645 / UL-EU-01208 / WF 411452  
WF 406434 / WF 407899 / WF 411468 / WF 411453

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

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

All service items should be adequately supported both sides of the firestop to ensure that no load is transferred onto the firestop seal.

ROCKWOOL Rocklap H&V Pipe Section to be installed in a continuous, 1000mm, locally sustained (L/S) length centrally through the Ablative Coated Batt seal. ROCKWOOL Rocklap H&V Pipe Section can be substituted for ROCKWOOL Fire Tube.

Additional combustible pipe solutions can be found in the ROCKWOOL Insulated Fire Sleeve (IFS) details CE Collar Details (COL) and ROCKWOOL High Expansion Intumescent Sealant (HE) details.

Where no dimension is given for service separation or aperture edge separation the dimension is 100mm. If this does not suit your project requirements please contact ROCKWOOL.

Refer to relevant product datasheet for further installation guidelines. These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance:

Insulation Performance:

Up to 120 Minutes

Up to 120 Minutes



Pencoed, Bridgend,  
South Wales CF35 6NY  
t: 01656 868490

[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:

ROCKWOOL FIREPRO® 50mm Ablative Coated Batt  
Double Layer Application Range

Scale:

1:10

Date:

AUG 23

Sheet Size:

A3

Drawn By:

S.HIRONS

Checked By:

L.HAM

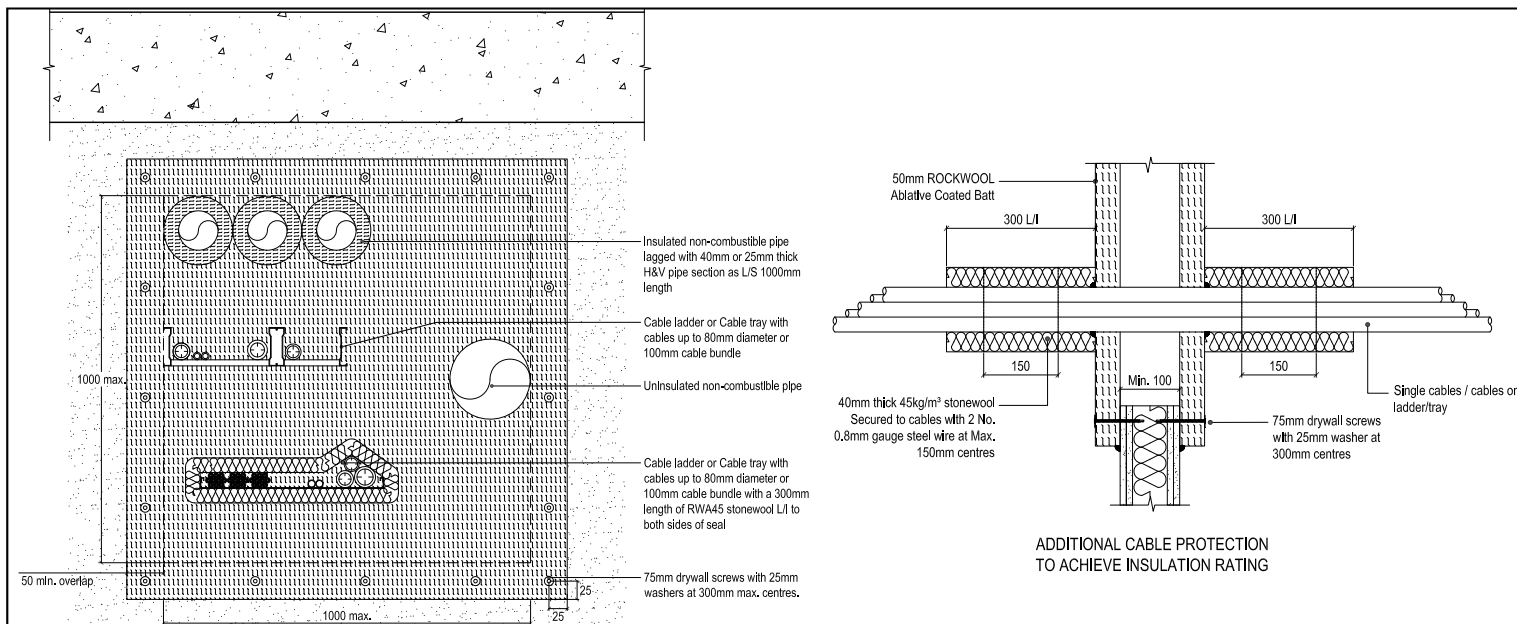
Drawing Number:

RWSD-ACB-0101

Revision:

A

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.



ADDITIONAL CABLE PROTECTION  
TO ACHIEVE INSULATION RATING

PERFORMANCE TABLE:

DOUBLE 50MM ABLATIVE COATED BATT FACE FIX							
Service type	Substrate	Seal	Service Treatment	Classification		Spacing	
				Integrity	Insulation	Aperture	Identical Services
Blank seal	≤ 1000 x 1000			120	120	N/A	N/A
Electrical cables	≤ Ø ≤ 1mm			120	90	0mm	0mm
	≤ Ø 22-50mm			120	60	0mm	0mm
	≤ Ø 51 - 80mm			90	60	0mm	0mm
Perforated Tray	≤ 500 mm (w) x 25mm (h) x 1.0mm (t)			120	90	0mm	0mm
Cable ladder	≤ 350mm (w) x 125mm (d) x 1.5mm (t)			90	90	0mm	0mm
Telecomm cables	≤ Ø 100mm bundle			120	90	0mm	0mm
Unsheathed cables	≤ Ø 24mm			120	45	0mm	0mm
PVC conduits	≤ Ø 16mm			120	90	0mm	0mm
Copper Conduits	≤ Ø 16mm			120	15	0mm	0mm
Electrical cables	≤ Ø ≤ 80mm			120	120	100mm	0mm
Cable tray	≤ 500mm (w) x 60mm (h) x 1.5mm (t)			120	120	100mm	0mm
Cable ladder	≤ 350mm (w) x 125mm (d) x 1.5mm (t)			120	120	100mm	0mm
Telecomm cables	≤ Ø 100mm bundle			120	120	100mm	0mm
Steel or copper conduits	≤ Ø 16mm			120	120	100mm	0mm
Plastic conduits	≤ Ø 16mm			120	120	100mm	0mm
Unsheathed cables	≤ Ø 24mm			120	120	100mm	0mm
Steel pipe	≤ 168mm			120	120	0mm	0mm
Copper pipe	≤ 108mm			120	120	0mm	0mm
Steel pipes	≤ 219mm			120	15	0mm	0mm
Steel pipe	≤ 168mm			90	60	0mm	0mm
Copper pipe	≤ 108mm			90	30	0mm	0mm
Copper pipe	≤ 42			120	120	100mm	100mm
Steel pipe	≤ 610mm			180	60	0mm	100mm
Steel pipe	≤ 610mm			180	15	0mm	100mm
Steel pipe	≤ 324mm			120	45	100mm	100mm
Copper pipe	≤ 159mm			120	20	100mm	100mm

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 Standard Detail:

Supporting Evidence: UL-EU-01208 / WF 407899 / WF 385718 / WF 411452 / WF 406434

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

The 50mm Rockwool Ablative Coated Batt must be installed with ROCKWOOL Intumescent sealant bedded between the batt and the drywall. A fillet of sealant 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 sealant or ablative coating. All batt to batt joints are to receive acoustic Intumescent sealant.

For applications where a 4 sided fix is not possible or if the 50mm overlap onto partition is not possible contact ROCKWOOL.

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

Flexible wall constructions must be installed in accordance with the manufacturer's guidelines. The wall construction should be a minimum thickness of 100mm.

ROCKWOOL Rocklap H&V Pipe Section to be installed in a continuous, 1000mm, locally sustained (L/S) length centrally through the Ablative Coated Batt seal. ROCKWOOL Rocklap H&V Pipe Section can be substituted for ROCKWOOL Fire Tube.

Additional combustible pipe solutions can be found in the ROCKWOOL Insulated Fire Sleeve (IFS) details CE Collar Details (COL) and ROCKWOOL High Expansion Intumescent Sealant (HE) details.

Refer to relevant product datasheet for further installation guidelines. These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance:

Up to 120 Minutes

Insulation Performance:

Up to 120 Minutes



Pencoed, Bridgend,  
South Wales CF35 6NY  
t: 01656 868490  
[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:

ROCKWOOL FIREPRO® 50mm Ablative Coated Batt  
Face Fix Application Range

Scale:

NTS

Date:

AUG 23

Sheet Size:

A3

Drawn By:

S.HIRONS

Checked By:

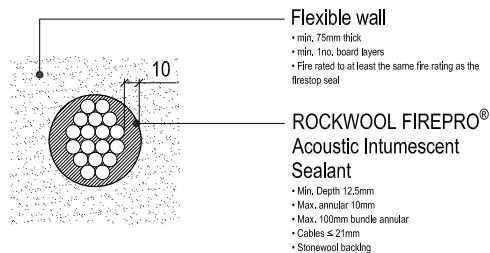
L.HAM

Drawing Number:

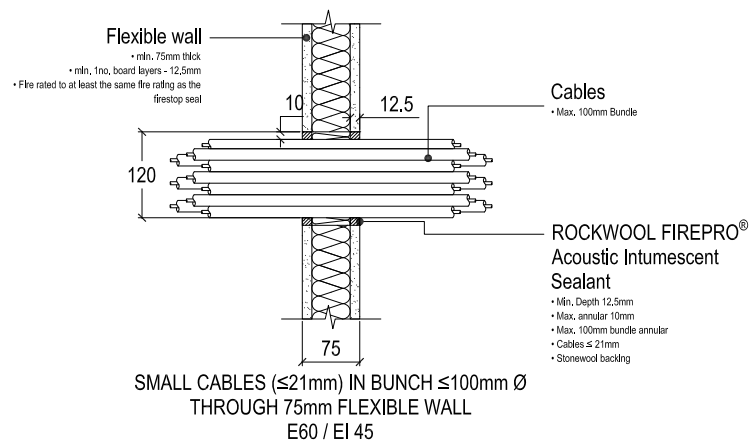
RWSD-ACB-0201

Revision:

A



SMALL CABLES (≤21mm)  
IN BUNCH ≤100mm Ø  
THROUGH 75mm FLEXIBLE WALL  
E 60 / EI 45



## ROCKWOOL Standard Detail:

Supporting Test Data : UL-EU-01203-CPR

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

Flexible wall constructions must be installed in accordance with the manufacturer's guidelines. The wall construction should be a minimum thickness of 75mm.

All service items should be adequately supported both sides of the firestop to ensure that no load is transferred onto the firestop seal.

Applications in flexible wall constructions can be used in masonry wall constructions.

Refer to relevant product datasheet for further installation guidelines.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.

For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance:	Insulation Performance:
60 minutes	45 minutes



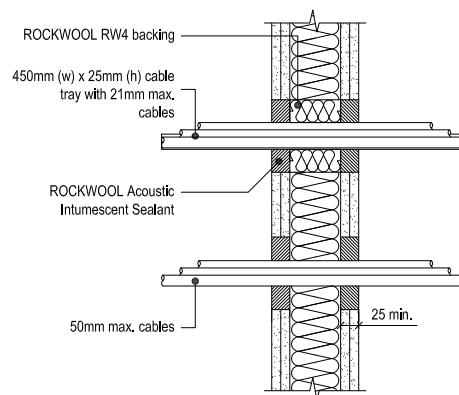
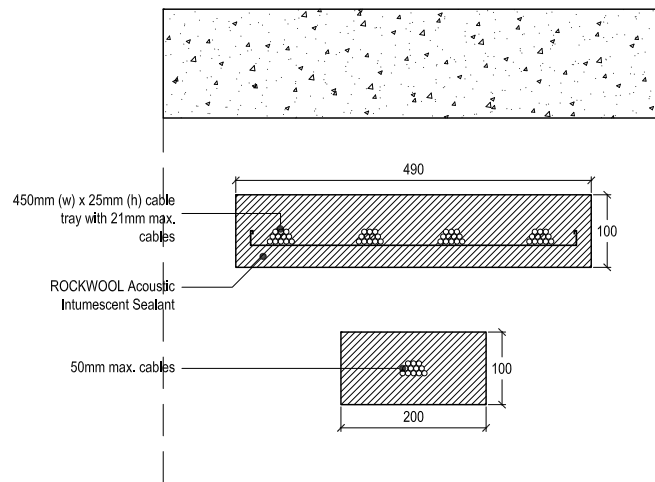
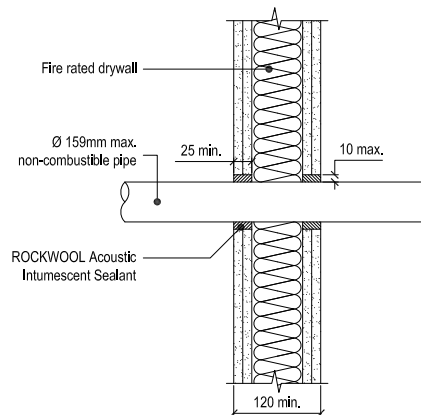
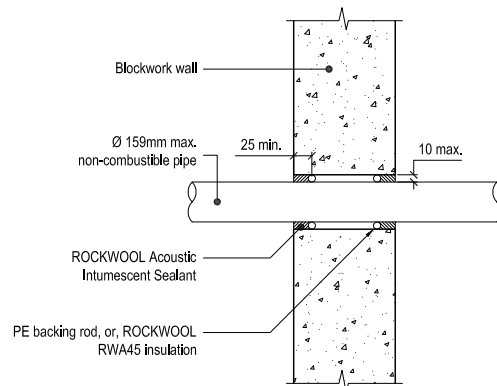
Pencoed, Bridgend,  
South Wales CF35 6NY  
t: 01656 868490  
[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:

ROCKWOOL FIREPRO® Acoustic Intumescent Sealant  
75mm Flexible Wall - Cable Penetrations & Blank Seal

Scale:	NTS	Date:	JUL 22
Sheet Size:	A3	Drawn By:	RW TECH
		Checked By:	L.HAM
Drawing Number:	RWSD-AIS-0110	Revision:	-

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 Standard Detail:

Supporting Evidence : UL-EU-01203-CPR

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 120mm.

Where insulation is required from metallic pipes then the service item will need to be lagged with Rockwool Fire Tube or RockLap H&V Pipe Section. Please refer to RWSD-AIS-0221 for further details.

Backing material to control depth of sealant can be either a PE backing rod or ROCKWOOL RWA 45 insulation packed into the annular space.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.

For further information or alternative products please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490

Pipe Integrity Performance:

Up to 120 Minutes	
Integrity Performance: (Cables)	Insulation Performance: (Cables)
120 Minutes (21-50mm Cables 90 Minutes)	90 Minutes (21-50mm Cables 60 Minutes)



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South Wales CF35 6NY  
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[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

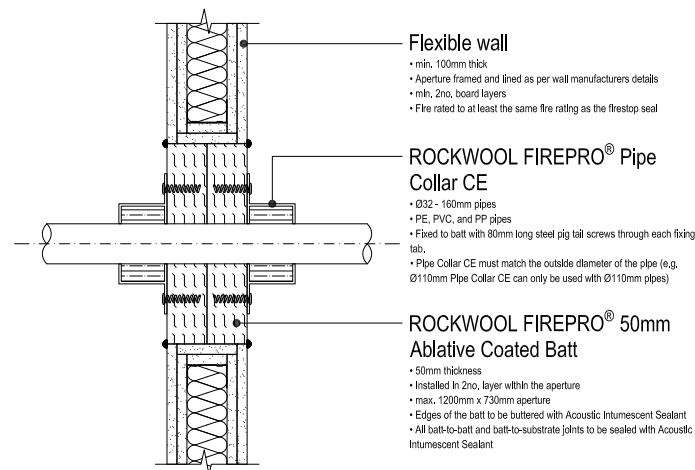
Drawing Title:

Acoustic Intumescent Sealant with single pipe/cable

Scale:	NTS	Date:	AUG 22
Sheet Size:	A3	Drawn By:	S. HIRON
		Checked By:	L. HAM
Drawing Number:	RWSD-AIS-0220	Revision:	-

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.





Service type		Flexible / rigid wall (min. 100mm thick)		Test Standard	Service separation	
		Integrity	Insulation		Aperture	Services
PVC pipes	Ø 32 - 50mm (1.8mm wall thickness)	120	120	EN	50mm	0mm
	Ø 55 - 63mm (2.3 - 3mm wall thickness)					
	Ø 75 - 82mm (3.1 - 4.8mm wall thickness)					
	Ø 90 - 110mm (4.2 - 7.4mm wall thickness)					
	Ø 125mm (6mm wall thickness)					
	Ø 140mm (6.1 - 7.5mm wall thickness)					
PP pipes	Ø 160mm (6.2 - 9.5mm wall thickness)	120	120	EN	50mm	0mm
	Ø 32 - 50mm (2.9mm wall thickness)					
	Ø 55 - 63mm (2.9 - 4.4mm wall thickness)					
	Ø 75 - 82mm (2.8 - 6.7mm wall thickness)					
	Ø 90 - 110mm (2.7 - 10mm wall thickness)					
	Ø 125mm (3.1mm wall thickness)					
PE pipes	Ø 140mm (3.5 - 8mm wall thickness)	120	120	EN	50mm	0mm
	Ø 160mm (4 - 14.6mm wall thickness)					
	Ø 32 - 50mm (2.9mm wall thickness)					
	Ø 55 - 63mm (2.9 - 4.4mm wall thickness)					
	Ø 75 - 82mm (2.8 - 6.7mm wall thickness)					
	Ø 90 - 110mm (2.7 - 10mm wall thickness)					
	Ø 125mm (3.1mm wall thickness)	120	120	EN	50mm	0mm
	Ø 140mm (3.9 - 5.8mm wall thickness)					
	Ø 160mm (4.9 - 9.5mm wall thickness)					

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 ratings. 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 Standard Detail:

Supporting Evidence : UL-EU-01208-CPR

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


Flexible wall constructions must be installed in accordance with the manufacturer's guidelines with the aperture being fully framed and lined out. The wall construction should be a minimum thickness of 100mm. This detail can also be applied to rigid wall constructions of 100mm minimum thickness.

All service items should be adequately supported both sides of the firestop to ensure that no load is transferred onto the firestop seal.

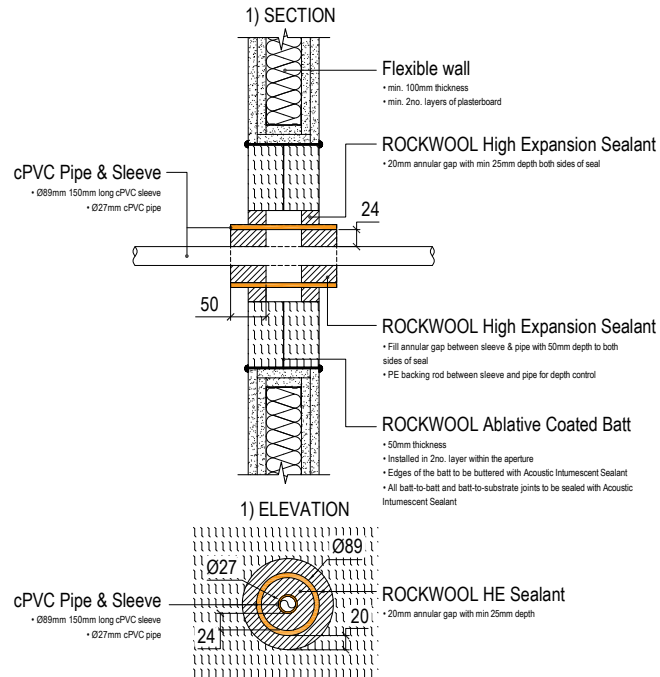
Refer to relevant product datasheet for further installation guidelines.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.

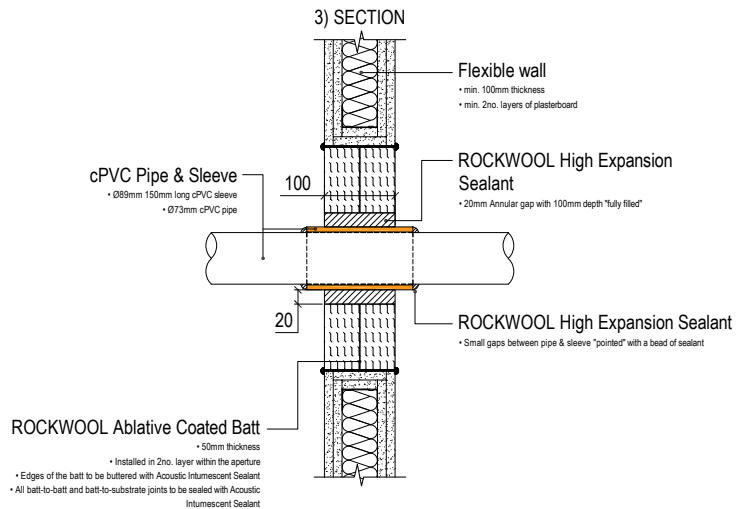
For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance:		Insulation Performance:	
120 mins		120 mins	
<div><b>ROCKWOOL®</b></div> <p>Pencoed, Bridgend, South Wales CF35 6NY t: 01656 868490 <a href="mailto:technical.solutions@rockwool.co.uk">technical.solutions@rockwool.co.uk</a></p>			
Drawing Title:  PIPE COLLAR CE Ablative Coated Batt Wall Aperture			
Scale: NTS		Date: FEB 22	
Sheet Size: A3		Drawn By: S. HIRONS	Checked By: L. HAM
Drawing Number: RWSD-COL-0002			Revision: C

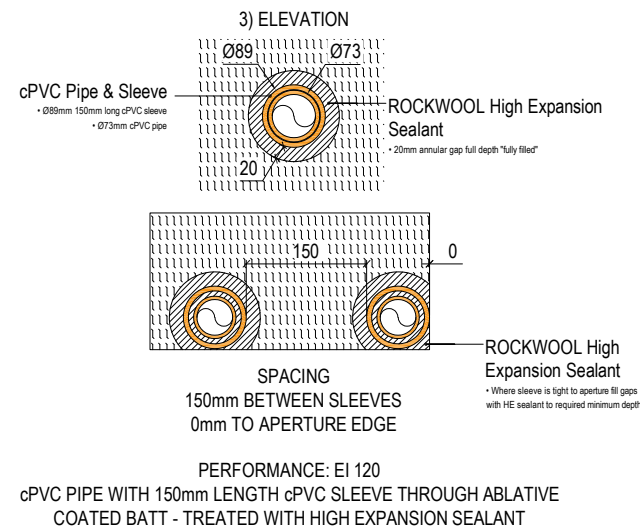
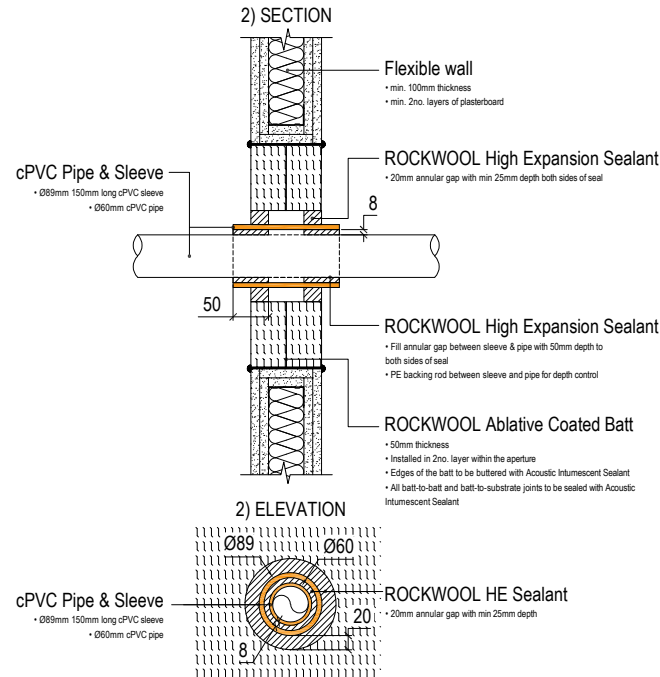
### 1) SLEEVED CPVC PIPE - LARGE ANNULAR GAP



### 3) SLEEVED CPVC PIPE - NO ANNULAR GAP



### 2) SLEEVED CPVC PIPE - SMALL ANNULAR GAP



### ROCKWOOL Standard Detail:

Supporting Evidence : WF 411297

Refer to Lubrizol / SPEARS CPVC Piping Systems Compatible Product Finder for further information/evidence of compatibility.

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

Aperture Size: Max. 600mm wide x 400mm high.

The 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 also be minimum 100mm thickness.

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

Please refer to the relevant product datasheet for further installation guidance.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product datasheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance:	Insulation Performance:
120 minutes	120 minutes

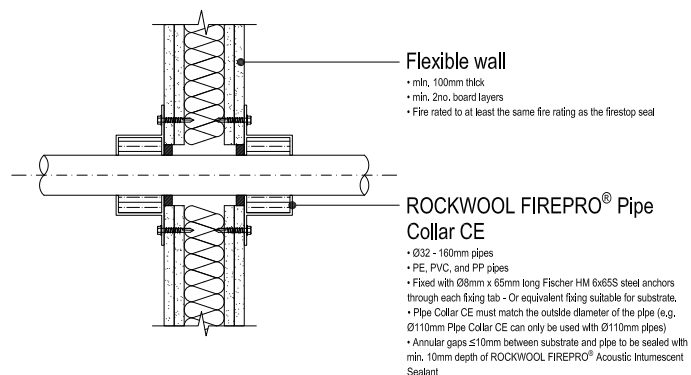


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[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:  
**HIGH EXPANSION INTUMESCENT SEALANT**  
cPVC pipes with cPVC sleeves


Scale: NTS		Date: OCT 20	
Sheet Size: A3		Drawn By: S. HIRONS	Checked By: L. HAM
Drawing Number: RWSD-HE-0051			Revision: B

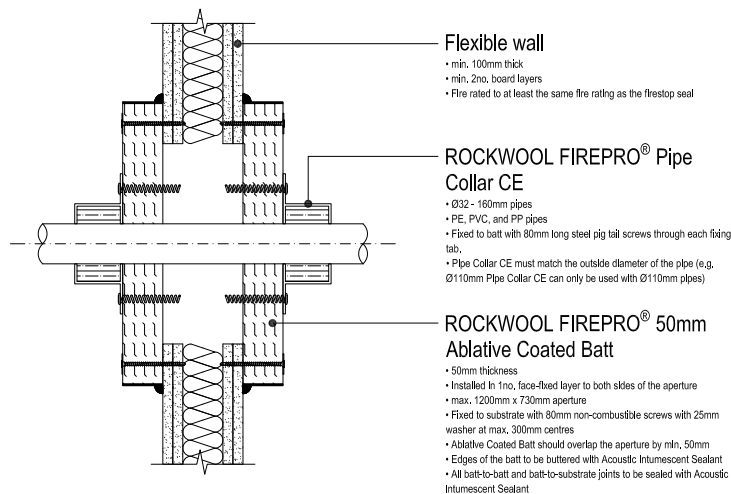
The published fire ratings have been achieved by following the instructions set out above. Use of alternative components or deviations from the instructions in any way is likely to mean that the installation will not comply with the assessed rating. Rockwool Ltd. does not accept responsibility for the 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.



Service type		Flexible / rigid wall (min. 100mm thick)		Test Standard	Service separation	
		Integrity	Insulation		Aperture	Services
PVC pipes	Ø32 - 50mm (1.8mm wall thickness) Ø55 - 63mm (2.3 - 3mm wall thickness) Ø75 - 82mm (3.1 - 4.8mm wall thickness) Ø90 - 110mm (4.2 - 7.4mm wall thickness) Ø125mm (6mm wall thickness) Ø140mm (6.1 - 7.5mm wall thickness) Ø160mm (6.2 - 9.5mm wall thickness)	120	120	EN	N/A	200mm
PP pipes	Ø32 - 50mm (2.9mm wall thickness) Ø55 - 63mm (2.9 - 4.4mm wall thickness) Ø75 - 82mm (2.8 - 6.7mm wall thickness) Ø90 - 110mm (2.7 - 10mm wall thickness) Ø125mm (3.1mm wall thickness) Ø140mm (3.5 - 8mm wall thickness) Ø160mm (4 - 14.6mm wall thickness)	120	120	EN	N/A	200mm
PE pipes	Ø32 - 50mm (2.9mm wall thickness) Ø55 - 63mm (2.9 - 4.4mm wall thickness) Ø75 - 82mm (2.8 - 6.7mm wall thickness) Ø90 - 110mm (2.7 - 10mm wall thickness) Ø125mm (3.1mm wall thickness) Ø140mm (3.9 - 5.8mm wall thickness) Ø160mm (4.9 - 9.5mm wall thickness)	120	120	EN	N/A	200mm

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 Standard Detail:		
Supporting Evidence : UL-EU-01205-CPR		
The supporting construction must be capable of achieving the required fire rating of the proposed firestop.		
Flexible wall constructions must be installed in accordance with the manufacturer's guidelines. The wall construction should be a minimum thickness of 100mm. This detail can also be applied to rigid wall constructions of 100mm minimum thickness.		
All service items should be adequately supported both sides of the firestop to ensure that no load is transferred onto the firestop seal.		
Refer to relevant product datasheet for further installation guidelines.		
These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.		
For further information please visit <a href="http://www.rockwool.co.uk">www.rockwool.co.uk</a> or contact our Technical Solutions Team on 01656 868490.		
Integrity Performance:		Insulation Performance:
120 mins		120 mins
 <p>Pencoed, Bridgend, South Wales CF35 6NY t: 01656 868490 <a href="mailto:technical.solutions@rockwool.co.uk">technical.solutions@rockwool.co.uk</a></p>		
Drawing Title: PIPE COLLAR CE Direct Through Wall		
Scale:	NTS	Date: AUG 23
Sheet Size:	A3	Drawn By: S. HIRONS Checked By: L. HAM
Drawing Number: RWSD-COL-0001		Revision: D



Service type		Flexible / rigid wall (min. 100mm thick)		Test Standard	Service separation	
		Integrity	Insulation		Aperture	Services
PVC pipes	Ø 32 - 50mm (1.8mm wall thickness) Ø 55 - 63mm (2.3 - 3mm wall thickness) Ø 75 - 82mm (3.1 - 4.8mm wall thickness) Ø 90 - 110mm (4.2 - 7.4mm wall thickness) Ø 125mm (6mm wall thickness) Ø 140mm (6.1 - 7.5mm wall thickness) Ø 160mm (6.2 - 9.5mm wall thickness)	120	120	EN	50mm	0mm
PP pipes	Ø 32 - 50mm (2.9mm wall thickness) Ø 55 - 63mm (2.9 - 4.4mm wall thickness) Ø 75 - 82mm (2.8 - 6.7mm wall thickness) Ø 90 - 110mm (2.7 - 10mm wall thickness) Ø 125mm (3.1mm wall thickness) Ø 140mm (3.5 - 8mm wall thickness) Ø 160mm (4 - 14.6mm wall thickness)	120	120	EN	50mm	0mm
PE pipes	Ø 32 - 50mm (2.9mm wall thickness) Ø 55 - 63mm (2.9 - 4.4mm wall thickness) Ø 75 - 82mm (2.8 - 6.7mm wall thickness) Ø 90 - 110mm (2.7 - 10mm wall thickness) Ø 125mm (3.1mm wall thickness) Ø 140mm (3.9 - 5.8mm wall thickness) Ø 160mm (4.9 - 9.5mm wall thickness)	120	120	EN	50mm	0mm

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## ROCKWOOL Standard Detail:

Supporting Evidence : UL-EU-01208-CPR

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

Flexible wall constructions must be installed in accordance with the manufacturer's guidelines. The wall construction should be a minimum thickness of 100mm. This detail can also be applied to rigid wall constructions of 100mm minimum thickness.

All service items should be adequately supported both sides of the firestop to ensure that no load is transferred onto the firestop seal.

Refer to relevant product datasheet for further installation guidelines.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.

For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance:

120 mins

Insulation Performance:

120 mins



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[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:

PIPE COLLAR CE  
Face-fix Ablative Coated Batt

Scale:

NTS

Date:

FEB 22

Sheet Size:

A3

Drawn By:

S. HIRON

Checked By:

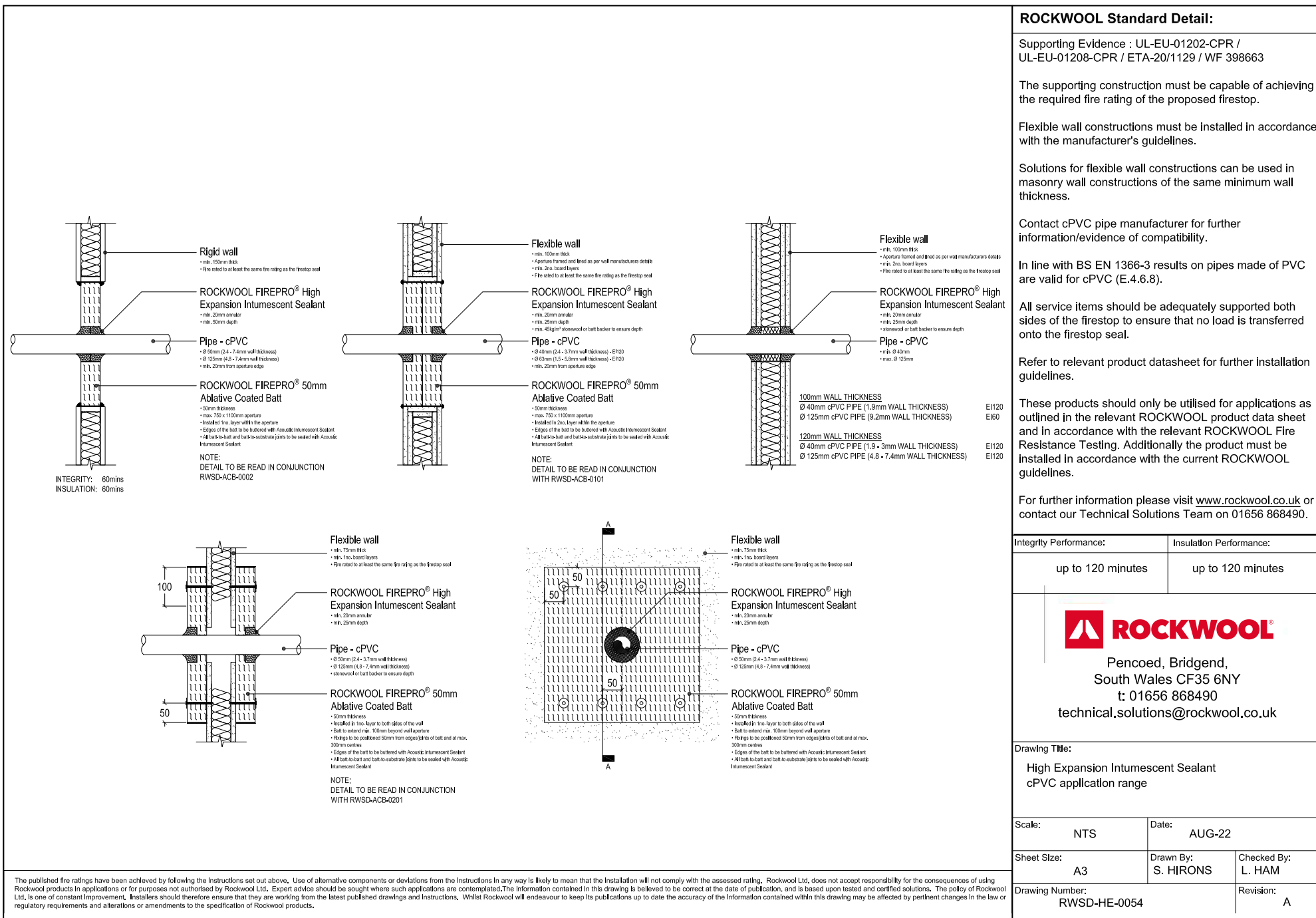
L. HAM

Drawing Number:

RWSD-COL-0003

Revision:

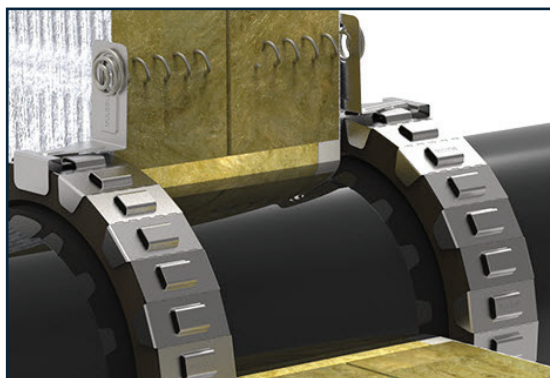
C



## Joint Sealings in Coated Batts

Coated batts can be used in combination with flexible walls, rigid walls and rigid floors. The fire barriers must have a minimum thickness of 100 mm (2x50 mm), with a density of at least  $\geq 150 \text{ kg/m}^3$ .

Joints around service penetrations, with or without insulation, must have a fire-resistant seal to prevent the passage of smoke and hot gases. Multimastic SP fire stopping mastic should be used for this purpose. When the ducts are completely enclosed by fire-stopping rock wool, fire stopping mastic is not required. For more information, see ETA report 17/0836



### Permissible filling materials for joints around pipe penetrations

Multimastic SP, fire stopping mastic

Joint width:  $\leq 20 \text{ mm}$

Depth:  $\geq 10 \text{ mm}$ , on both sides of the wall

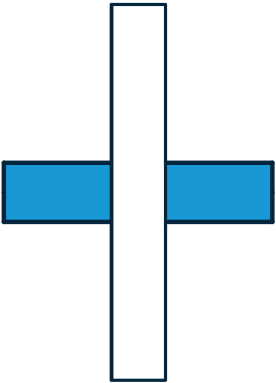
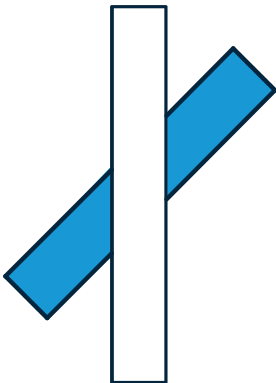
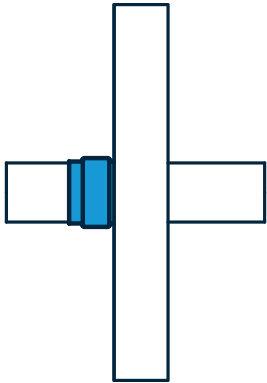
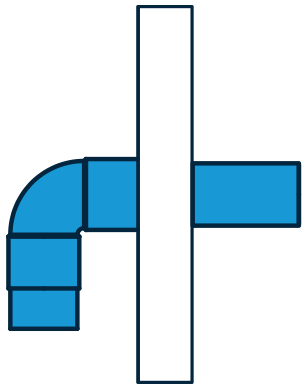
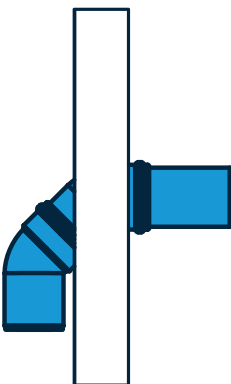
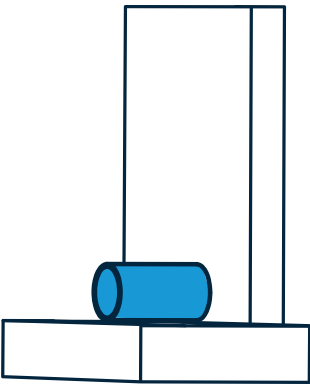
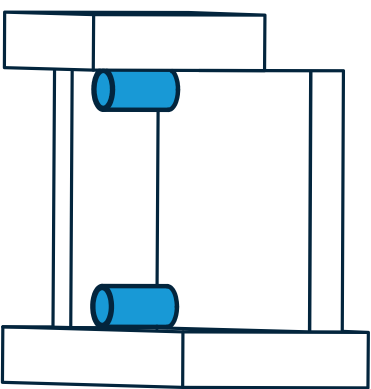
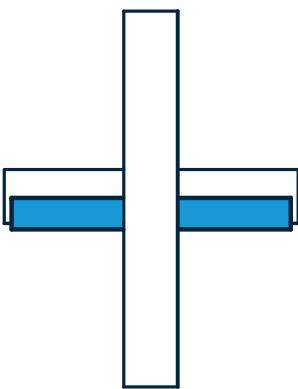
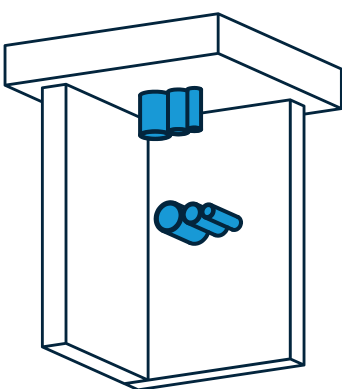
## 4. Tested Configurations

### Plastic Pipes, Uninsulated

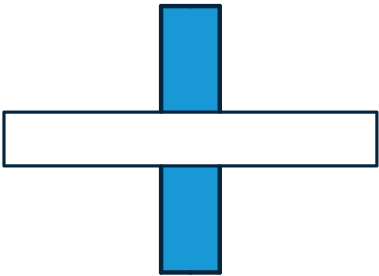
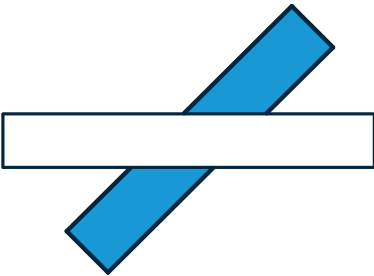
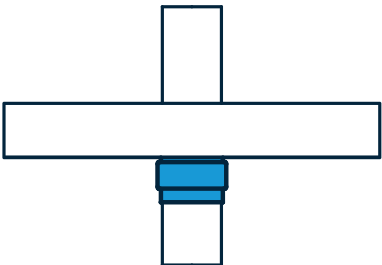
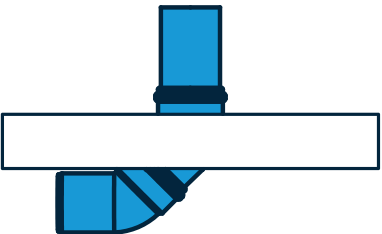
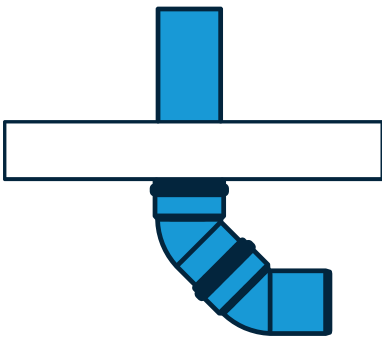
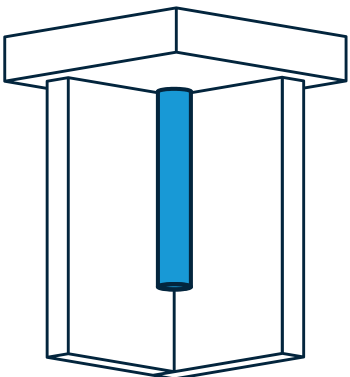
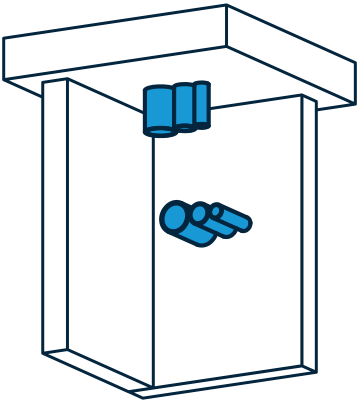
Construction	Thickness [mm]	Configuration*	Max. Ø [mm]	Insulation type
Rigid and flexible walls	≥ 100	Straight pipes	Ø 315	n/a
		Inclined pipes ≥ 45° - 90°	Ø 125	
		Coupling elements		
		87° / 90° Elbows		
		Elbow 2 x 45°	Ø 110	
		Corner solutions		
		Support structure	Ø 90	
		Multiple penetrations	Ø 75 (3x)	
Rigid floors	≥ 150	Straight pipes	Ø 315	
		Inclined pipes ≥ 45° - 90°	Ø 125	
		Coupling elements		
		Elbow 2 x 45°	Ø 110	
		Corner solutions	Ø 110	
		Multiple penetrations	Ø 110	
Rock wool coated batts	≥ 2 x 50	Straight pipes		

\*see the "Tested configurations" table on page 14 and 15

Tested configurations in rigid and flexible walls

Straight pipes	Inclined pipes $\geq 45^\circ$ - $90^\circ$	Coupling elements
		
87° / 90° Elbows	2 x 45° Elbows	Zero distance (U-shape)
		
Corner solutions	Support structure	Multiple penetrations
		

Tested configurations in rigid floors

Straight pipes	Inclined pipes $\geq 45^\circ - 90^\circ$	Coupling elements
		
Elbows 2 x $45^\circ$	2 x $45^\circ$ Elbows	Corner solutions
		
Multiple penetrations		
		



## 5. Installation Manual Multicollar *Slim*



**1**

Make sure that the service penetration and the gap are free from dust, dirt and grease.



**2**

Openings  $\leq 20$  mm <sup>1)</sup> can be sealed with Multisealant A firestop acrylic sealant or Multimastic SP firestop mastic, over a depth of 10 mm.



**3**

Measure the diameter of the service penetration. See the application table on the packaging (for plastic pipes <sup>2)</sup> for the length of Multicollar *Slim* (number of segments) and the multiclips required.



**4**

Count the number of Multicollar *Slim* segments required on the roll and then cut through the inlay with a knife.



**5**

Break the Multicollar *Slim* where it has been cut.



**6**

Cut the inlay away with the knife on both sides of the custom-size fire collar.



**7**

If the stainless-steel joints fit well together, the inlay has been properly cut.



**8**

Place the fire collar around the service penetration, attach the end of the fire collar with multiclip and secure with the screws provided.



**9**

Distribute the remaining Multiclips proportionally and secure with screws.



**10**

Fill in the conformity statement and paste it next to the fireproof seal.

<sup>1)</sup> Larger openings around service penetrations can be sealed according to the installation requirements for the Multimastic C System or the Multimortar System.

<sup>2)</sup> Steel pipes with insulation, depending on the fire resistance, can be provided with a single fire collar up to a total diameter of 283 mm.



### Information



For use and for more information about an application, refer to the Mulcol documentation, local and international approvals.

See the **Mulcol Fire Protection app** for the correct application in combination with fire resistance, or use our **selector** at [www.mulcol.com](http://www.mulcol.com) For professional use only.

## 6. Performance

### Uninsulated Plastic Pipe Penetrations through Flexible Walls, Rigid Walls and Floors

EN 1366-3

PVC-U / PVC-C pipes	Seal size Ø x s [mm]	Multicollar <i>Slim</i>		Assembly side(s)	Spacing	Construction			Classificatio minutes
		Single	Dual			FW-100	RW-100	RF-150	
Straight pipes	≤ 110 x 1,8 - 14,6	✓		2	fig. 1 to 4	✓	✓		≤ EI 90-U/U
	≤ 160 x 1,8 - 14,6		✓						≤ EI 120-U/U
	≤ 315 x 1,8 - 14,6								≤ EI 90-U/C
	≤ 110 x 1,8 - 14,6	✓		1				✓	≤ EI 90-U/U
	≤ 160 x 1,8 - 14,6							≤ EI 120-U/C	
	≤ 315 x 1,8 - 14,6					✓		≤ EI 120-U/C	
Inclined pipes ≥ 45° - 90°	≤ 110 x 3,4 - 10,0		✓	2	fig. 1 to 4	✓	✓		≤ EI 60-U/C
	≤ 110 x 3,4								≤ EI 120-U/C
	≤ 110 x 2,7	✓							≤ EI 45-U/C
	≤ 125 x 2,5						≤ EI 30-U/C		
	≤ 110 x 3,4 - 10,0		✓	✓		✓	≤ EI 60-U/U		
	≤ 110 x 10,0							≤ EI 90-U/U	
87° / 90° Elbows	≤ 125 x 2,5	✓		2	fig. 1 to 4	✓	✓		≤ EI 90-U/U
87° / 90° Elbows, zero distance to wall	≤ 110 x 3,4	✓		2	fig. 1 to 4	✓	✓		≤ EI 120-U/C
Elbow 2 x 45° , zero distance to floor	≤ 50 x 3,0	✓		1	fig. 1 to 4			✓	≤ EI 90-U/C
	≤ 110 x 3,2								≤ EI 45-U/C
Corner solutions	≤ 110 x 2,2 - 2,3	✓		1	fig. 1 to 4	✓	✓	✓	≤ EI 90-U/U
	≤ 110 x 6,3								≤ EI 90-U/U
	≤ 125 x 7,4								≤ EI 60-U/C
Zero distance to floor	≤ 110 x 2,2	✓		1	fig. 1 to 4			✓	≤ EI 90-U/U

PP pipes	Seal size Ø x s [mm]	Multicollar <i>Slim</i>		Assembly side(s)	Spacing	Construction			Classification minutes
		Single	Dual			FW-100	RW-100	RF-150	
Straight pipes	≤ 110 x 1,8 - 6,3	✓		2	fig. 1 to 4	✓	✓		≤ EI 120-U/U
	≤ 125 x 1,8 - 7,1								≤ EI 90-U/U
	≤ 125 x 1,8 - 3,1								≤ EI 120-U/U
	≤ 160 x 1,8 - 4,0			1					≤ EI 90-U/U
	≤ 160 x 9,1								≤ EI 120-U/C
	≤ 40 x 1,8 - 6,3								≤ EI 120-U/U
	≤ 110 x 1,8 - 3,6								≤ EI 90-U/U
	≤ 125 x 1,8 - 4,8								≤ EI 60-U/U
	≤ 160 x 1,8 - 14,6								≤ EI 90-U/C
Inclined pipes ≥ 45° - 90°	≤ 110 x 3,4 - 10,0	✓	✓	2	fig. 1 to 4	✓	✓		≤ EI 60-U/C
	≤ 110 x 3,4								≤ EI 120-U/C
	≤ 110 x 2,7								≤ EI 45-U/C
	≤ 110 x 3,4 - 10,0	✓	✓	1				≤ EI 60-U/U	
	≤ 110 x 10,0							≤ EI 90-U/U	
87° / 90° Elbows	≤ 125 x 3,1	✓		2	fig. 1 to 4	✓	✓		≤ EI 90-U/C
Corner solutions	≤ 110 x 6,3	✓		1	fig. 1 to 4			✓	≤ EI 90-U/U

E: Integrity  
I: Thermal insulation

FW-100: Flexible wall, 100 mm thick  
RW-100: Rigid wall, 100 mm thick  
RF-150: Rigid floor, 150 mm thick

Ø x S [mm] Diameter x wall thickness of the penetration

PE / PE-HD / ABS / SAN+PVC pipes	Seal size Ø x s [mm]	Multicollar <i>Slim</i>		Assembly side(s)	Spacing	Construction			Classification minutes
		Single	Dual			FW-100	RW-100	RF-150	
Straight pipes	≤ 110 x 2,4 - 10,0	✓		2	fig. 1 to 4	✓	✓		≤ EI 60-U/U
	≤ 125 x 2,4 - 4,0								≤ EI 90-U/U
	≤ 125 x 2,4 - 4,9								≤ EI 120-U/U
	≤ 110 x 2,4 - 6,6			1				✓	≤ EI 120-U/U
	≤ 125 x 2,4 - 4,9								≤ EI 90-U/U
	≤ 160 x 2,4 - 4,0								≤ EI 60-U/U
	≤ 160 x 14,6								≤ EI 120-U/C
Inclined pipes ≥ 45° - 90°	≤ 110 x 2,7	✓		2	fig. 1 to 4	✓	✓		≤ EI 60-U/C
	≤ 110 x 3,4 - 10,0		✓						≤ EI 120-U/C
	≤ 110 x 10,0		✓						≤ EI 90-U/U
Metal supp. half shell	≤ 90 x 2,8	✓		2	fig. 1 to 4	✓	✓		≤ EI 90-U/C
Zero distance to floor	≤ 110 x 2,8	✓		1	fig. 1 to 4			✓	≤ EI 90-U/U
Corner solutions	≤ 110 x 6,6	✓		1	fig. 1 to 4			✓	≤ EI 120-U/U
Coupling elements	≤ 110 x 4,3 - 7,4	✓		2	fig. 1 to 4	✓	✓		≤ EI 60-U/C
	≤ 110 x 4,3								≤ EI 120-U/C
	≤ 110 x 4,3			1				✓	≤ EI 90-U/C
	≤ 125 x 7,4								≤ EI 60-U/C

Low noise pipes <sup>(1)</sup>	Seal size Ø x s [mm]	Multicollar <i>Slim</i>		Assembly side(s)	Spacing	Construction			Classification minutes
		Single	Dual			FW-100	RW-100	RF-150	
Elbow 2 x 45°, Zero distance to wall	≤ 110 x 3,6	✓		2	fig. 1 to 4	✓	✓		≤ EI 60-U/U
	≤ 110 x 6,0								≤ EI 90-U/U
Elbow 2 x 45°, Zero distance to floor	≤ 110 x 6,0	✓		1	fig. 1 to 4			✓	≤ EI 90-U/U
	≤ 110 x 5,3								≤ EI 120-U/U
Corner solutions, zero distance to ceiling	≤ 110 x 6,0	✓		2	fig. 1 to 4	✓	✓		≤ EI 60-U/U
Corner solutions, zero distance to floor	≤ 110 x 6,0	✓		2	fig. 1 to 4	✓	✓		≤ EI 120-U/U
Corner solutions	≤ 110 x 6,6	✓		1	fig. 1 to 4			✓	≤ EI 120-U/C
Coupling elements	≤ 110 x 2,7	✓		2	fig. 1 to 4	✓	✓		≤ EI 120-U/C
Coupling elements	≤ 110 x 6,3	✓		1	fig. 1 to 4			✓	≤ EI 90-U/U
	≤ 110 x 2,7 - 6,0								≤ EI 120-U/C

<sup>(1)</sup> Permitted low noise pipes

- Coes PhoNoFire
- Coestilen BluePower
- Geberit Silent dB20
- Geberit Silent PP
- Girpi Friaphon
- Marley Silent
- Pipelife Master 3
- PhonEX AS
- Poloplast POLO-KAL NG
- Poloplast POLO-KAL 3S
- REHAU Raupiano Plus
- Skolan dB
- Valsir Triplus
- Wavin AS
- Wavin SiTech+
- DykaSono

E: Integrity

I: Thermal insulation

FW-100: Flexible wall, 100 mm thick

RW-100: Rigid wall, 100 mm thick

RF-150: Rigid floor, 150 mm thick

Ø x S [mm]: Diameter x wall thickness of the penetration

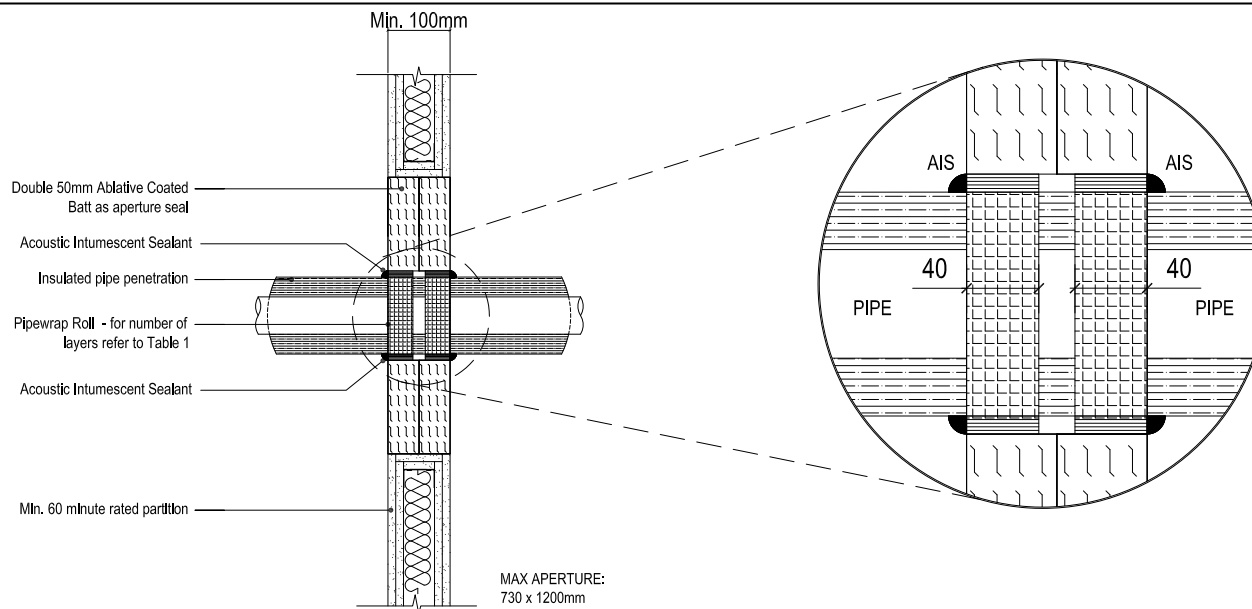


TABLE 1:

Pipe Material	Pipe Size / Wall / Insulation			Wrap Layers	Classification	
	Pipe Size (mm)	Wall Thickness (mm)	Insulation Type / Size (mm)		Integrity	Insulation
Steel or Copper	42 - 159	1.2 - 14.2	13-25 Elastomeric (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	60
Steel or Copper	42	1 - 14.2	13-25 Elastomeric (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	90
Steel or Copper	42 - 108	1.2 - 14.2	25 - 40 Phenolic (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	60
Steel or Copper	42	1 - 14.2	25 - 40 Phenolic (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	90
Steel or Copper	42	1 - 14.2	50 Glass Fibre (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	90

Pipe Material	Pipe Size / Wall / Insulation			Wrap Layers	Classification	
	Pipe Size (mm)	Wall Thickness (mm)	Insulation Type / Size (mm)		Integrity	Insulation
Pvc	40	1.9	25 Phenolic (C/S - continuously sustained)	3 No. 40mm (w) x 2mm (t)	120	90
Pvc	40	3	15 Phenolic (C/S - continuously sustained)	3 No. 40mm (w) x 2mm (t)	120	90
Pvc	110	4.2	25 Phenolic (C/S - continuously sustained)	5 No. 40mm (w) x 2mm (t)	120	120
Pvc	110	6.6	20 Phenolic (C/S - continuously sustained)	5 No. 40mm (w) x 2mm (t)	120	90
Pvc	40	1.9	32 Elastomeric (C/S - continuously sustained)	3 No. 40mm (w) x 2mm (t)	120	120
PVC	40	3	9 Elastomeric (C/S - continuously sustained)	3 No. 40mm (w) x 2mm (t)	120	120
PVC	110	4.2	32 Elastomeric (C/S - continuously sustained)	5 No. 40mm (w) x 2mm (t)	120	120
PVC	110	6.6	13 Elastomeric (C/S - continuously sustained)	5 No. 40mm (w) x 2mm (t)	120	120

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 Standard Detail:

Supporting Evidence : UL-EU-01208-CPR

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 seal.

This detail is to be read in conjunction with the ROCKWOOL FIREPRO Intumescent Pipewrap Roll data sheet specific installation instructions. For pipe O/A diameters, pipe wall thickness and insulation thickness that fall outside of the those indicated in Table 1 please consult ROCKWOOL Technical.

Refer to Table 1 for number or Pipewrap Roll layers.

This detail is to be read in conjunction with RWSD-ACB 0101 - 0103 & 1101 - Double 50mm & 60mm Ablative Batt Aperture Seals.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.

For further information or alternative products please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490

Integrity Performance:

Insulation Performance:

Up to 120 Minutes

Up to 120 Minutes



Pencoed, Bridgend,  
South Wales CF35 6NY  
t: 01656 868490

[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:

FirePro Intumescent Pipe Wrap Roll  
Insulated pipe penetrations - Aperture Seal

Scale:

NTS

Date:

AUG 22

Sheet Size:

A3

Drawn By:

RW TECH

Checked By:

L.HAM

Drawing Number:

RWSD-PWR-0002

Revision:

-

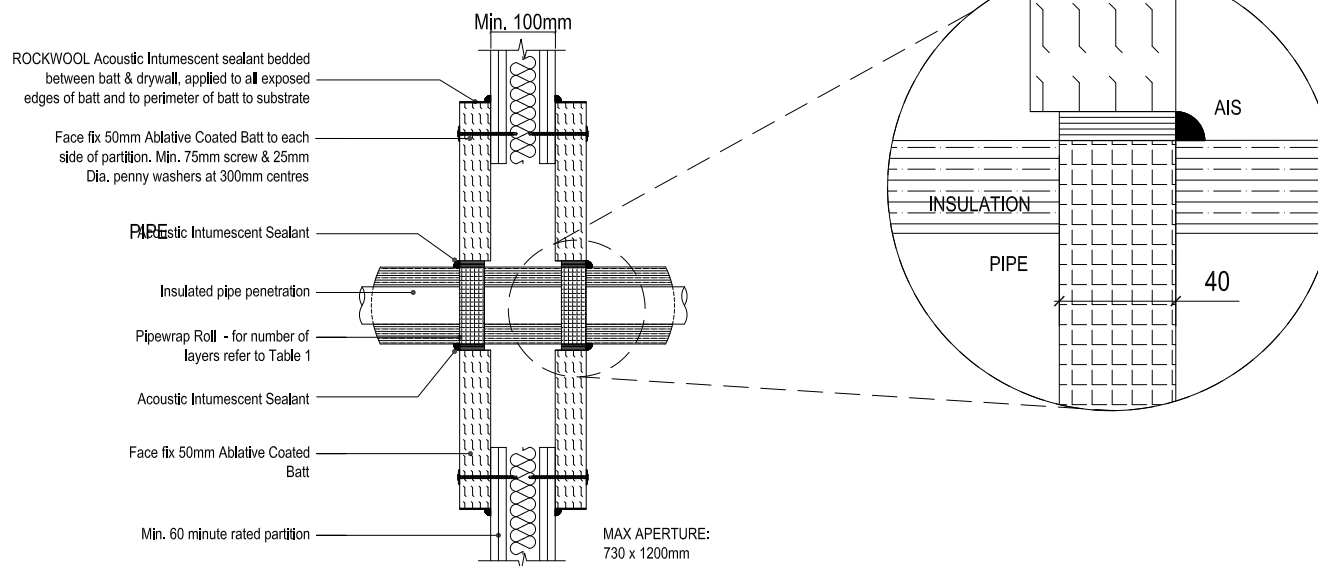


TABLE 1:

Pipe Material	Pipe Size / Wall / Insulation			Wrap Layers	Classification	
	Pipe Size (mm)	Wall Thickness (mm)	Insulation Type / Size (mm)		Integrity	Insulation
Steel or Copper	42 - 159	1.2 - 14.2	13 - 25 Elastomeric (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	60
Steel or Copper	42	1.2 - 14.2	13 - 25 Elastomeric (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	90
Steel or Copper	42 - 108	1.2 - 14.2	25 - 40 Phenolic (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	60
Steel or Copper	42	1.2 - 14.2	25 - 40 Phenolic (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	90
Steel or Copper	42	1.2 - 14.2	50 (30kg/m <sup>3</sup> ) Glassfibre (C/S - continuously sustained)	2 No. 40mm (w) x 2mm (t)	120	90

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 Standard Detail:

Supporting Evidence : UL-EU-01208-CPR

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 seal.


This detail is to be read in conjunction with the ROCKWOOL FIREPRO Intumescent Pipewrap Roll data sheet specific installation instructions. For pipe O/A diameters, pipe wall thickness and insulation thickness that fall outside of the those indicated in Table 1 please consult ROCKWOOL Technical.

Refer to Table 1 for number or Pipewrap Roll layers.

This detail is to be read in conjunction with RWSD-ACB details - Double 50mm & 60mm Ablative Batt Aperture & Face Fix Seals.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.

For further information or alternative products please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490

Integrity Performance:		Insulation Performance:	
Up to 120 Minutes		Up to 120 Minutes	
<div><b>ROCKWOOL®</b></div> <p>Pencoed, Bridgend, South Wales CF35 6NY t: 01656 868490 technical.solutions@rockwool.co.uk</p>			
Drawing Title:			
FirePro Intumescent Pipe Wrap Roll Insulated pipe penetrations - Face Fix Batt Seal			
Scale:  NTS		Date:  AUG 22	
Sheet Size:  A3		Drawn By:  RW TECH	Checked By:  L.HAM
Drawing Number:  RWSD-PWR-0101			Revision:  -



## **FIRESTOPPING PROJECT DETAILS**

- **Horizontal Details (Through Floors)**

## Firestopping Matrix - Through Floors

	Dampers	Cable Trays & Baskets	Plastic Pipes and Conduits	Non Combustible Pipes and conduits
Non Fire Rated	N/A	N/A		
60min Fire Rated	To be discussed and designed separately, Installed in line with Damper Manufacturers Test detail or Separate Agreements	<p>50mm Batt as shuttering tight to the service then trowell on the first 25mm of Compound, allow to cure and then install the remaining 75mm of compound. <b>As detail RWSD-COM-0501</b></p> <p><b>Achieves 120min Integrity &amp; 60min Insulation (Cables should be bunched by M&amp;E and no larger than 100mm)</b></p>	<p><b><u>For Oversized Concrete Openings Option 1:</u></b>            * 40mm - 160mm Dia. PVC, PP &amp; PE Pipes:            Install 2 layers of 50mm Batt in the with edges and cuts coated with Acoustic Intumescent Sealant and then sealed at edges with a bead of the same. Then install a Pipe Collar CE suitable for the pipe with 80mm long pig tail fixings into the batt. As Detail <b>RWSD-COL-0503</b>  <b>Achieves 120min Integrity &amp; 120min Insulation</b>  <i>Rockwool Compound can be added to the top side of this detail to bring finish flush with floor level but must be installed as a separate install (Email from Ryan at Rockwool 29/03/21) and will not conform to the compound loadings unless the compound is min 75mm thick</i></p> <p><b><u>For Oversized Concrete Openings Option 2:</u></b>            *40mm - 160mm Dia.PVC, PP &amp; PE Pipes; Install centrally within the opening an Insulated Fire Sleeve to suit pipe size, then fill the 150mm depth of the opening with Fire Compound as long as the gap is greater than 15mm. May need shuttering batt from underside. <b>As detail RWSD-IFS-0601</b>  <b>Achieves 120min Integrity &amp; 60min - 120min Insulation (Ensure that pipe wall thicknesses are observed as per table on detail)</b></p> <p><b><u>For Tight(ish) Concrete Openings:</u></b>            *40mm - 160mm Dia.PVC, PP &amp; PE Pipes (Ensure there is 200mm Service separation and that pipe wall thicknesses are observed as per table on detail):            Install FirePro Pipe Collar fixed from underside. <b>As Detail RWSD-COL-0501</b> (&lt;10mm gaps can be sealed around the pipe with Acoustic Intumescent Sealant, 11mm - 50mm gaps must be filled with Compound through the full depth of the floor)  <b>Achieves 120min Integrity &amp; 120min Insulation</b></p>	<p><b><u>For oversized openings (Pipes lagged with Rockwool H&amp;V):</u></b>            * Steel Pipes up to 165mm Diameter and Copper Pipes up to 108mm Diameter; Install 50mm Batt as shuttering tight to the services then trowell on the first 25mm of Compound, allow to cure and then install the remaining 75mm of compound. <b>As detail RWSD-COM-0501 or RWSD-COM-0503</b>  <b>Achieves 120min Integrity &amp; 120min Insulation rating if Pipes are insulated with 40mm Rockwool H&amp;V Section and have spacing, if they are clustered together Copper Pipes will only achieve 45min Insulation Rating.</b></p> <p><b><u>For oversized openings (Where they pass through the same opening as a Combustible Pipe):</u></b>            * The solution installed for the plastic pipe will protect the plastic pipe in the first instance but will also protect the non combustible going through the same construction as long as spacings are given between pipes as advised, the non combustible pipes can be mastic sealed on underside to keep neat or compounded on top side.            Consider <b>Detail RWSD-ACB-0501</b>  <b>Achieves up to 120min Integrity &amp; 90min Insulation when insulated with min 25mm H&amp;V) (No Insulation rating if not lagged)</b></p> <p><b><u>For Tight Concrete Openings:</u></b>            *Steel Pipes up to 159mm Diameter and Copper Pipes up to 108mm Diameter: No works required as no gap to seal, in the event there is a small gap up to 5mm then seal above and below with Acoustic Intumescent Mastic.  <b>Achieves 60min Integrity (Insulation rating not required on these size pipes)</b></p>

**Disclaimers**

	A	B	C	D
	Dampers (FD M9 & FD_C)	Cable Trays & Baskets	Plastic Pipes and Conduits	Non Combustible Pipes and conduits
ALL	<p>* 75mm or 100mm depth of compound the can be 500mm wide x any length install 100mm where possible as this works better for 0mm seperation with H&amp;V insulated pipes</p> <p>* 100mm depth of compound can be 750mm x 750mm aperture</p> <p>* Larger apertures will need to be reinforced compound and will carry additional charges. These can be up to 1,500mm wide by any length</p>			
60min Fire Rated Floors			<p>M&amp;E have advised they are not insulating pipes through floors, if they are the insulation will be removed locally and the closing device set out in the solutions would be used</p> <p>Combustible pipes must not have joints or bends within 55mm of the surface they are passing through, in order to allow sufficient room for a closing device solution to be installed</p>	<p>Any pipes insulated with anything that isn't H&amp;V insulated will either need insulation removing completely or removing and insulating with H&amp;V insulation. If in doubt what thickness of H&amp;V to use then go with 40mm H&amp;V, otherwise ask the question</p>



### INSTALLATION NOTES

A permanent shuttering made from 50mm ROCKWOOL slab (minimum density 140kg/m<sup>3</sup>) 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

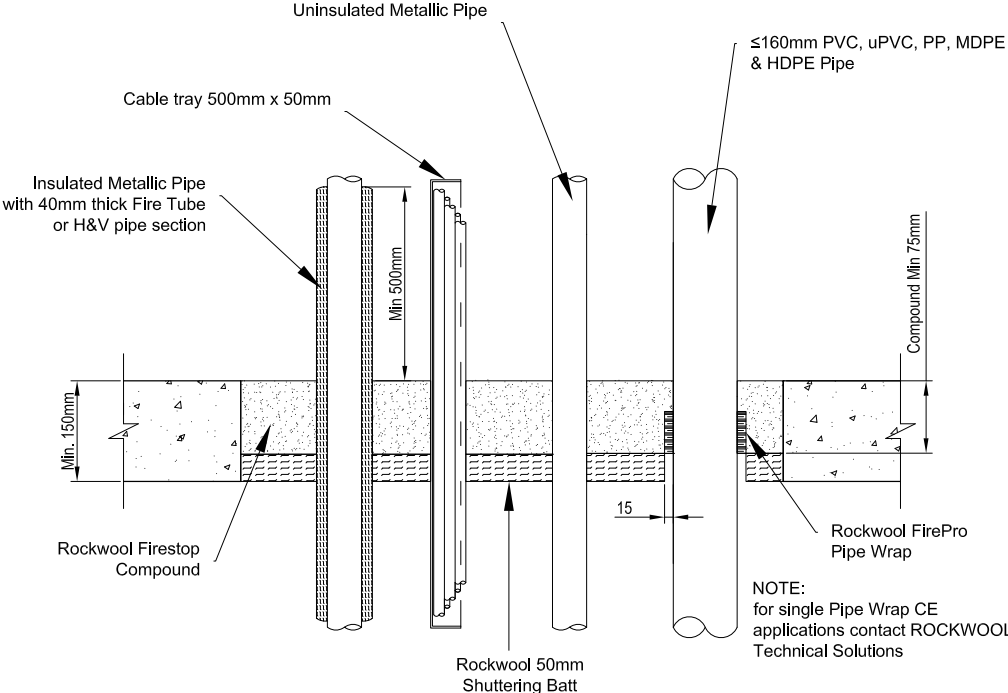
- 1) A bag of compound to 10 litres water (3:1) by volume. Vary to suit site conditions
- 2) Set the shuttering into the opening ensuring a tight fit so that once the required depth of Compound is installed it finishes flush with the floor slab/screed unless otherwise specified
- 3) Mix and pour compound 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, Simply Reinforced - 1500mm x any length*	✓	✓	✓	✓	✓	✓	✓	✓
Cable Tray ≤500mm x 50mm	✓	✓	✓	✓	✓	✓	✓	✓
Bunched cables ≤100 mm	✓	✓	✓	✓	✓	✓	✓	✓
Electrical cables up to 21mm	✓	✓	✓	✓	✓	✓	✓	✓
Electrical cables 21mm - 50mm	✓	✓	✓	✓	✓	✓	✓	✓
Electrical cables 51mm - 80mm	✓	✓	✓	✓	✓	✓	✓	✓
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 Pipe Wrap	✓	✓	✓	✓	✓	✓	✓	✓

\* Load bearing performance in line with BS6399 for workspaces and cupboards

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 Standard Detail:

Supporting Evidence : BMTFEIF14015 / WF 518225  
WF 436617 / WF 389239 / WF 518794

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 permanent load is transferred onto the coated batt.

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

Combustible pipes passing through the compound shall be provided with either ROCKWOOL Firestop Collar or Wrap. It is important to ensure that the collar or wrap shall remain exposed at the soffit (therefore to direct fire exposure). If the shuttering batt is to remain in place then care shall be taken to ensure the intumescent device remains exposed. One option to achieve this would be to use a PE backing rod between the pipe and the batt to ensure the shuttering allows the compound to be poured yet burns away quickly to expose the intumescent. A width of 15mm is suggested.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

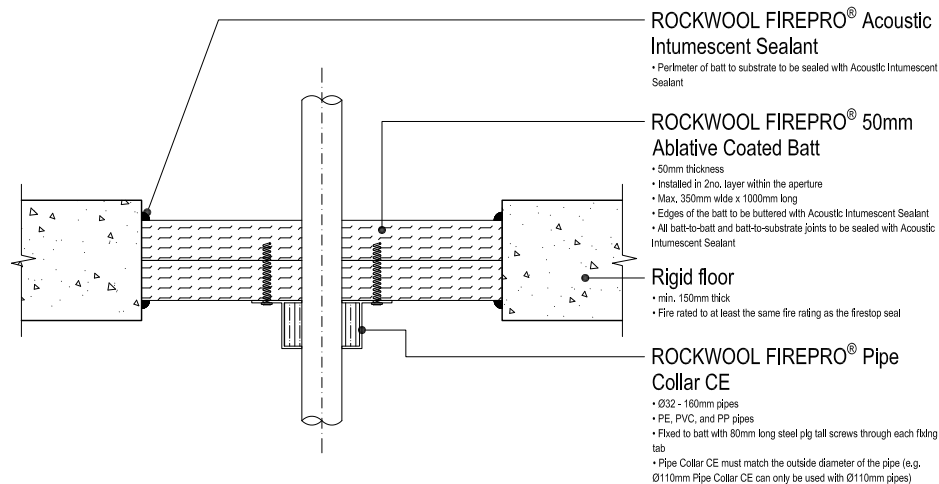
Integrity Performance:	Insulation Performance:
Up to 240 minutes	Up to 240 minutes



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[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:		
FireStop Copound Floor Seal		

Scale:	NTS	Date:	AUG 22
Sheet Size:	A3	Drawn By:	RW TECH
		Checked By:	L.HAM
Drawing Number:	RWSD-COM-0501	Revision:	-



Service type		Rigid floor (min. 150mm thick)		Test Standard	Service separation	
		Integrity	Insulation		Aperture	Services
PVC pipes	Ø 32 - 50mm (1.8mm wall thickness) Ø 55 - 63mm (2.3 - 3mm wall thickness) Ø 75 - 82mm (3.1 - 4.8mm wall thickness) Ø 90 - 110mm (4.2 - 7.4mm wall thickness) Ø 125mm (6mm wall thickness) Ø 140mm (6.1 - 7.5mm wall thickness) Ø 160mm (6.2 - 9.5mm wall thickness)	120	120	BS EN 1366-3:2009	0mm	0mm
HDPE pipes	Ø 32 - 50mm (2.9mm wall thickness) Ø 55 - 63mm (2.9 - 4.4mm wall thickness) Ø 75 - 82mm (2.8 - 6.7mm wall thickness) Ø 90 - 110mm (2.7 - 10mm wall thickness) Ø 125mm (3.1mm wall thickness) Ø 140mm (3.9 - 5.8mm wall thickness) Ø 160mm (4.9 - 9.5mm wall thickness)	120	120	BS EN 1366-3:2009	0mm	0mm
PP pipes	Ø 32 - 50mm (2.9mm wall thickness) Ø 55 - 63mm (2.9 - 4.4mm wall thickness) Ø 75 - 82mm (2.8 - 6.7mm wall thickness) Ø 90 - 110mm (2.7 - 10mm wall thickness) Ø 125mm (3.1mm wall thickness) Ø 140mm (3.5 - 8mm wall thickness) Ø 160mm (4 - 14.6mm wall thickness)	120	120	BS EN 1366-3:2009	0mm	0mm

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 Standard Detail:

Supporting Test Data : UL-EU-01208-CPR

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

All service items should be adequately supported both sides of the firestop to ensure that no load is transferred onto the firestop seal.

Refer to relevant product datasheet for further installation guidelines.

Service and aperture separation is taken from the casing of the collar not the pipe - i.e. 0mm between collars or 0mm from collar to substrate.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.

For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance: Insulation Performance:

120 mins

120 mins



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[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:

PIPE COLLAR CE  
Ablative Coated Batt Floor Aperture

Scale:

NTS

Date:

JUL 22

Sheet Size:

A3

Drawn By:

S. HIRONS

Checked By:

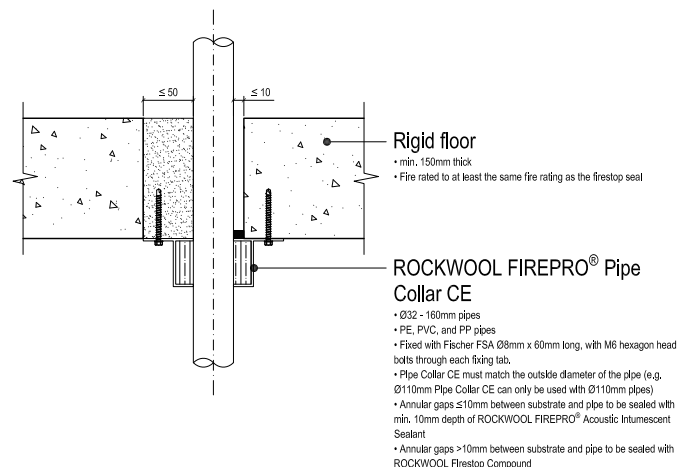
L. HAM

Drawing Number:

RWSD-COL-0503

Revision:

-



Service type		Rigid floor (min. 150mm thick)		Test Standard	Service separation	
		Integrity	Insulation		Aperture	Services
PVC pipes	Ø 32 - 50mm (1.8mm wall thickness) Ø 55 - 63mm (2.3 - 3mm wall thickness) Ø 75 - 82mm (3.1 - 4.8mm wall thickness) Ø 90 - 110mm (4.2 - 7.4mm wall thickness) Ø 125mm (6mm wall thickness) Ø 140mm (6.1 - 7.5mm wall thickness) Ø 160mm (6.2 - 9.5mm wall thickness)	240	240	EN	N/A	200mm
PP pipes	Ø 32 - 50mm (2.9mm wall thickness) Ø 55 - 63mm (2.9 - 4.4mm wall thickness) Ø 75 - 82mm (2.8 - 6.7mm wall thickness) Ø 90 - 110mm (2.7 - 10mm wall thickness) Ø 125mm (3.1mm wall thickness) Ø 140mm (3.5 - 8mm wall thickness) Ø 160mm (4 - 14.6mm wall thickness)	240	240	EN	N/A	200mm
PE pipes	Ø 32 - 50mm (2.9mm wall thickness) Ø 55 - 63mm (2.9 - 4.4mm wall thickness) Ø 75 - 82mm (2.8 - 6.7mm wall thickness) Ø 90 - 110mm (2.7 - 10mm wall thickness) Ø 125mm (3.1mm wall thickness) Ø 140mm (3.9 - 5.8mm wall thickness) Ø 160mm (4.9 - 9.5mm wall thickness)	240	240	EN	N/A	200mm

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## ROCKWOOL Standard Detail:

Supporting Evidence : UL-EU-01205-CPR

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

The floor must have a minimum thickness of 150mm with a minimum density of 650kg/m³.

All service items should be adequately supported both sides of the firestop to ensure that no load is transferred onto the firestop seal.

Refer to relevant product datasheet for further installation guidelines.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.

For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance: Insulation Performance:

240 mins

240 mins



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Drawing Title:

PIPE COLLAR CE  
Solid Floor

Scale:

NTS

Date:

FEB 22

Sheet Size:

A3

Drawn By:

S. HIRONS

Checked By:

L. HAM

Drawing Number:

RWSD-COL-0501

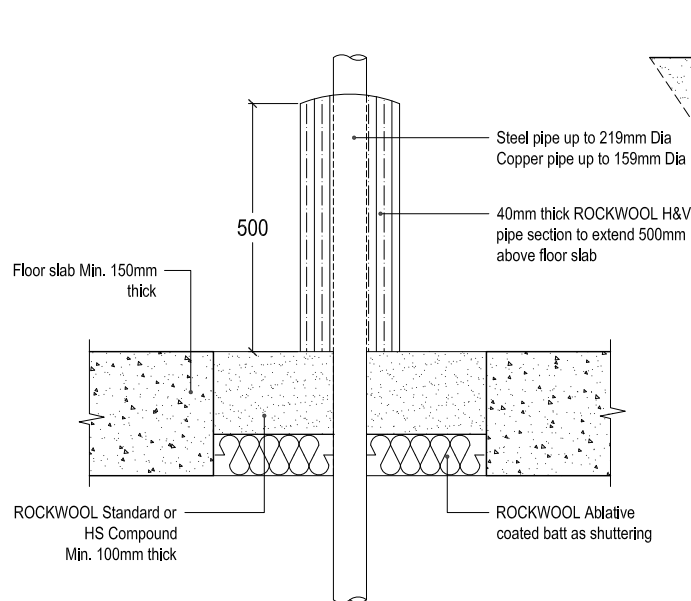
Revision:

C

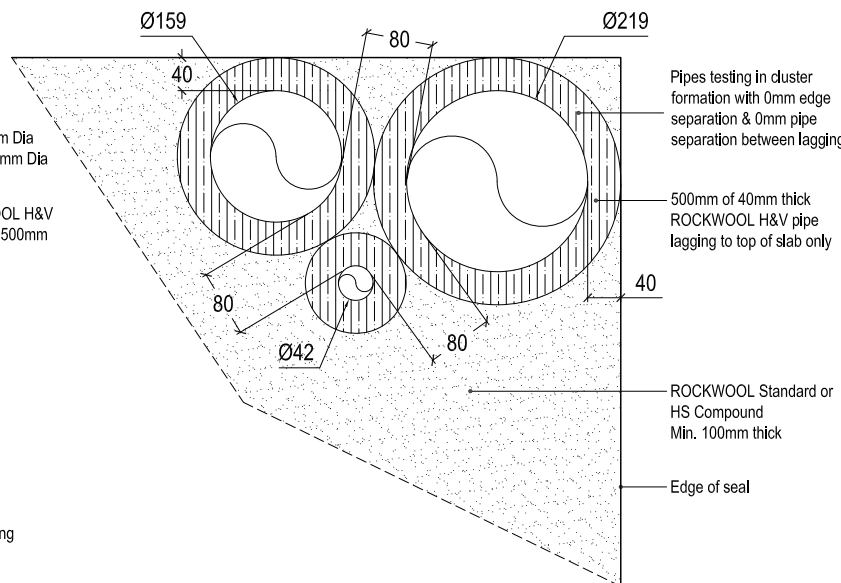


Insulated fire sleeve through 150mm AAC slab							
Pipe Material	Pipe Size (mm)	Pipe Wall Thickness (mm)	Substrate	Closure Device	Annular Gap	Classification	
						Integrity	Insulation
PVC	40 - 160	1.8 - 9.5	150mm Aerated concrete slab	IFS - 150mm	15mm - sealed with 20mm deep AIS with 50mm RWA45 backing	180	120
HDPE	40 - 160	2.4 - 9.5					
PP	40 - 160	1.8 - 9.1					60

<p><b>ROCKWOOL Standard Detail:</b></p> <p>Supporting Evidence : WF 416060</p> <p>The supporting construction must be capable of achieving the required fire rating of the proposed Firestop.</p> <p>Insulated Fire Sleeve to be minimum 150mm long through floor. For floor thickness less than 150mm please contact ROCKWOOL technical.</p> <p>Core holes through floors to have a minimum separation of 150mm. For reduced separation please contact ROCKWOOL Technical.</p> <p>These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines.</p> <p>For further information or alternative products please visit <a href="http://www.rockwool.co.uk">www.rockwool.co.uk</a> or contact our Technical Solutions Team on 01656 868490</p>			
Integrity Performance:		Insulation Performance:	
Up to 120 Minutes		Up to 120 Minutes	
<div style="display: flex; align-items: center; justify-content: center;">  <div> <p><b>ROCKWOOL®</b></p> <p>Pencoed, Bridgend, South Wales CF35 6NY t: 01656 868490 <a href="mailto:technical.solutions@rockwool.co.uk">technical.solutions@rockwool.co.uk</a></p> </div> </div>			
Drawing Title:			
FirePro Insulated Fire Sleeve: Penetration Seal through Floor			
Scale: NTS		Date: AUG 23	
Sheet Size: A3		Drawn By: RW TECH	Checked By: L.HAM
Drawing Number: RWSD-IFS-0601			Revision: C



COMPOUND SECTION



PLAN VIEW ABOVE SEAL

Performance Table:

Penetration Type/Size (mm)	Formation	Insulation Thickness (mm)	Seal	Service Separation	Substrate Separation	Supporting construction	Performance	
							Integrity	Insulation
Copper 42	Cluster	40mm H&V pipe lagging - 500mm to top of slab only	100mm thick ROCKWOOL Standard Compound	0mm (From lagging)	0mm (From lagging)	150mm thick AAC concrete slab (650 kg/m <sup>3</sup> )	240	120
Copper 43 - 159							120	45
Steel < 219							240	120

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## ROCKWOOL Standard Detail:

Supporting Test Data : WF 427399 (BS EN 1366-3)

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

Please refer to RWSD-COM-0501 for compound size limitations and other service penetration details.

All service items should be adequately supported on the non fire side of the seal.

The tested cluster formation provides coverage for a linear arrangement.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance: Up to 240 Minutes

Insulation Performance: Up to 120 Minutes



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Drawing Title:

ROCKWOOL Standard Compound  
H&V Pipe Section to top of slab

Scale:

N/A

Date:

AUG 22

Sheet Size:

A3

Drawn By:

RW TECH

Checked By:

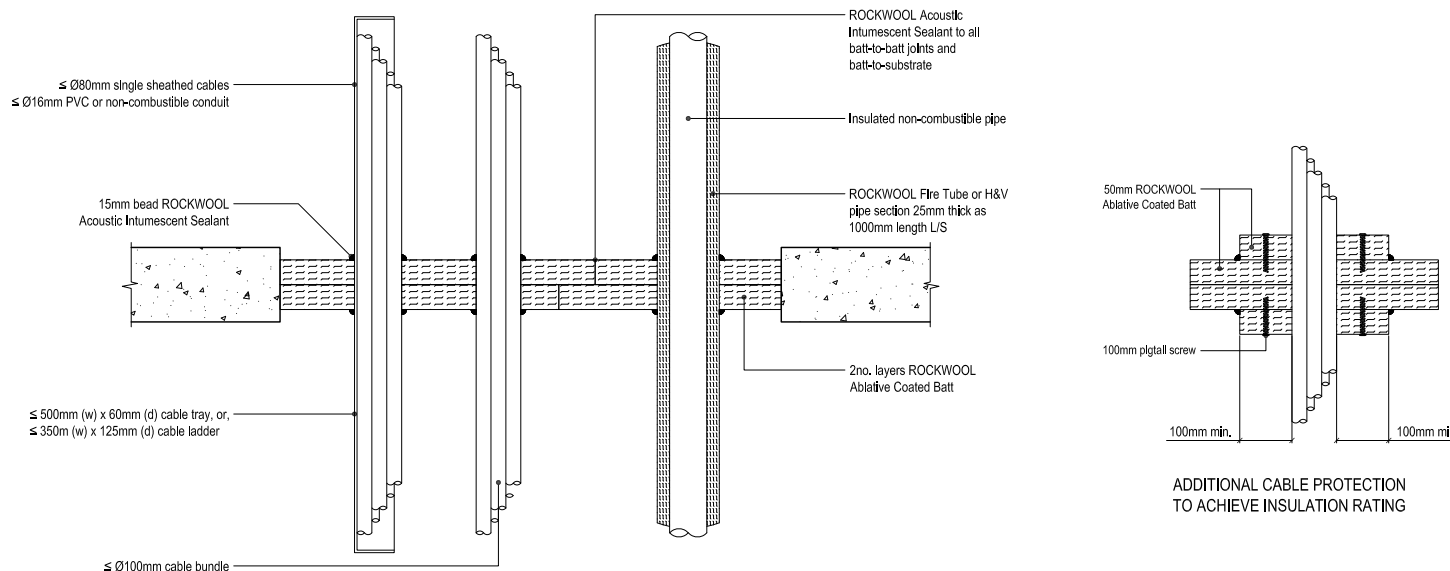
L.HAM

Drawing Number:

RWSD-COM-0503

Revision:

A



ADDITIONAL CABLE PROTECTION  
TO ACHIEVE INSULATION RATING

PERFORMANCE TABLE:

DOUBLE 50MM ABLATIVE COATED BATT 150MM FLOOR								
Service type	Substrate	Seal	Service treatment	Classification		Spacing		
				Integrity	Insulation	Aperture	Identical Services	
Blank seal	≤ 1600 x 1100	2no, 50mm Ablative Coated Batt	N/A	120	120	N/A	N/A	
Electrical cables	≤ Ø≤15mm Ø 16mm - 21mm Ø 22mm - 50mm Ø 51mm - 80mm			120	90	60mm	0mm	
				120	30	60mm	0mm	
				120	30	60mm	0mm	
				120	30	60mm	0mm	
Cable tray	≤ 500mm (w) x 60mm (h) x 1.5mm (t)			120	60	60mm	0mm	
Cable ladder	≤ 350mm (w) x 125mm (d) x 1.5mm (t)			120	60	60mm	0mm	
Telecomm cables	≤ Ø 100mm bundle			120	120	60mm	0mm	
Steel or copper conduits	≤ Ø 16mm			120	-	60mm	0mm	
Plastic conduits	≤ Ø 16mm			120	90	60mm	0mm	
Electrical cables	≤ Ø≤15mm Ø 16mm - 80mm		Additional 50mm pattress to both faces of batt	120	120	60mm	0mm	
				120	60	60mm	0mm	
Cable tray	≤ 500mm (w) x 60mm (h) x 1.5mm (t)			120	90	60mm	0mm	
Cable ladder	≤ 350mm (w) x 125mm (d) x 1.5mm (t)			120	90	60mm	0mm	
Unsheathed cables	≤ Ø 17mm			120	90	60mm	0mm	
Copper or steel pipe	≤ Ø 42mm		25mm thick H&V pipe section 1000mm length L/S	120	120	0mm	0mm	
Copper or steel pipe	≤ Ø 108mm			120	120	0mm	0mm	
Steel pipe	≤ Ø 168mm			120	120	0mm	0mm	
Steel pipe	≤ Ø 219mm			120	90	0mm	100mm	
Steel pipe	≤ Ø 219mm		40mm thick H&V pipe section 1000mm length L/S	120	120	0mm	100mm	
Steel or Copper pipe	≤ 42mm	**700mm x 1100mm Max void**	40mm thick 40 Kg/m3 stonewool (RWA45) lagging 300mm both sides of seal L/I	120	120	100mm	100mm	

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## ROCKWOOL Standard Detail:

Supporting Evidence : WF 335645 / WF 330898 / WF 406434 / UL-EU-01208

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 150mm. For thinner substrates please contact ROCKWOOL Technical Solutions.

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

Refer to relevant product data sheets for further installation guidelines.

Where no dimension is given for service separation or aperture edge separation the dimension is 100mm. If this does not suit your project requirements please contact ROCKWOOL.

For combustible service penetrations refer to Insulated Fire Sleeve, CE Collar, Pipe Wrap & High Expansion Sealant Details.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

Integrity Performance: Insulation Performance:

Up to 120 Minutes

Up to 120 Minutes



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[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:

ROCKWOOL FIREPRO® 50mm Ablative Coated Batt  
Double Layer Application Range - Horizontal Seal

Scale: NTS

Date: MAR 22

Sheet Size: A3

Drawn By: S.HIRONS

Checked By: L.HAM

Drawing Number: RWSO-ACB-0501

Revision: -



## **FIRESTOPPING PROJECT DETAILS**

- **Linear Details (Top Of Blockwork and Vertical Gaps Blockwork to Steel)**



Firestopping Matrix - Linear Seals			
	0mm - 25mm	25mm - 50mm	51mm to 250mm
<b>Non Fire Rated Plasterboard Partitions</b>	* Install 15mm bead of Intumescent Acoustic Mastic	* Push fit rockwool insulation into the gap (tight fit) leaving 15mm to face of the wall then install a 15mm deep bead of Rockwool Acoustic Intumescent Sealant that finishes flush with face of the wall. This should be each side.	* Install Single 50mm Ablative batt centrally above the wall then Intumescent Acoustic Mastic to the edges. For optimum acoustics install double batt (one finishing flush with each side of a partition).
<b>60min Fire Rated Plasterboard Partitions</b>	<p>* <b>Blockwork Wall to Concrete Soffit</b> - 10mm - 25mm deep bead of Rockwool Acoustic Intumescent Sealant can be installed to a gap size of 20mm - 50mm. The depth of the Mastic will always be 50% of the width being sealed i.e. a 50mm gap must have a 25mm deep bead of sealant. RWA45 or PE Rod to be used as backing.  As detail RWSD-AIS-0001 (A)  <b>Achieves 120min Integrity &amp; 30-60min Insulation (This rating is acheived by installing from 1 side only, would only need to be installed form both sides if there is a twin block wall with cavity)</b></p> <p>* <b>Blockwork Wall to Steel Beam</b> - 10mm - 25mm deep bead of Rockwool Acoustic Intumescent Sealant can be installed to a gap size of 20mm - 50mm. The depth of the Mastic will always be 50% of the width being sealed i.e. a 50mm gap must have a 25mm deep bead of sealant. RWA45 or PE Rod to be used as backing.  As detail RWSD-AIS-0001 (C)  <b>Gaps up to 20mm achieve 120min Integrity &amp; 30min Insulation</b>  <b>Gaps 21mm - 50mm Achieves 45min Integrity &amp; 30min Insulation (This rating is acheived by installing from 1 side only, would recommend installing from both sides in order to achieve 60min Integrity)</b></p> <p>* <b>Plasterboard Wall to Concrete Soffit at Head of Wall</b> - 25mm deep bead of Rockwool Acoustic Intumescent Sealant to a maximum gap size of 20mm (Head track acts as backing).  As detail RWSD-AIS-0001 (F)  <b>Achieves 120min Integrity &amp; 120min Insulation</b></p> <p>* <b>Plasterboard to Masonry (Vertical abutment)</b> - 12.5mm deep bead of Rockwool Acoustic Intumescent Sealant to a maximum gap size of 20mm. RWA45 or PE Rod to be used as backing.  As detail RWSD-AIS-0001 (E)  <b>Achieves 120min Integrity &amp; 120min Insulation</b></p> <p><b>If another scenario such as above walls to profiled deck then use the &gt;50mm Details</b></p>		<p>* <b>Blockwork Wall to Flat Concrete or Steel Soffit (Can achieve 2.6m high seal if installed in landscape or 1,200mm high seal if installed in portrait):</b>  Install Double <b>50mm Ablative batt</b> above the wall then Intumescent Acoustic Mastic to the edges. Maximum gap between the 2 rows of Batt can be 100mm. <b>As per detail RWSD-ACB-0301</b>  <b>Achieves 60min Integrity &amp; up to 60min Insulation</b></p> <p>* <b>Blockwork Wall to Flat Concrete or Steel Soffit (Can achieve 2.6m high seal if installed in landscape or 1,200mm high seal if installed in portrait):</b>  Install 60mm Ablative batt centrally above the wall then Intumescent Acoustic Mastic to the edges. If up to steelwork it will also need an additional 150mm rip of batt eaither side which is to be mechanically fixed as shown. <b>As per detail RWSD-ACB-1301</b>  <b>Achieves 60min Integrity &amp; up to 60min Insulation</b></p> <p><u>Where not to a flat soffit or where greater than 60min Required (or both):</u>  Option A: Supply and install AIM Firestop Blocks to fit profile of Metal Deck  <b>Achieves up to 120min Integrity &amp; Insulation</b></p>



**A**

**VERTICAL SEAL  
ACOUSTIC INTUMESCENT SEALANT BETWEEN  
CONCRETE SUBSTRATES**

- Rigid wall
  - min. 100mm thick
  - Fire rated to at least the same fire rating as the firestop seal
- ROCKWOOL FIREPRO® Acoustic Intumescent Sealant
  - max. width and depth as per table
- Backing rod

**B**

**HORIZONTAL SEAL  
ACOUSTIC INTUMESCENT SEALANT BETWEEN  
CONCRETE SUBSTRATES**

- ROCKWOOL FIREPRO® Acoustic Intumescent Sealant
  - max. width and depth as per table
- Backing rod
- Rigid floor
  - min. 150mm thick
  - Fire rated to at least the same fire rating as the firestop seal

**C**

**VERTICAL SEAL  
ACOUSTIC INTUMESCENT SEALANT BETWEEN  
CONCRETE AND STEEL OR CONCRETE AND  
SOFTWOOD SUBSTRATES**

- Rigid wall
  - min. 100mm thick
  - Fire rated to at least the same fire rating as the firestop seal
- Backing rod
- ROCKWOOL FIREPRO® Acoustic Intumescent Sealant
  - max. width and depth as per table
- Steel or Softwood substrate

**D**

**HORIZONTAL SEAL  
ACOUSTIC INTUMESCENT SEALANT BETWEEN  
CONCRETE AND STEEL SUBSTRATES**

- ROCKWOOL FIREPRO® Acoustic Intumescent Sealant
  - max. width and depth as per table
- Backing rod
- Rigid floor
  - min. 150mm thick
  - Fire rated to at least the same fire rating as the firestop seal
- Steel substrate

**Rockwool advised by phone (23/11/22) that this top table can be used for Top of Blockwork Walls to Concrete Soffit & RWA45 can be used as Backing**

Substrate	min. Substrate thickness (mm)	max. width (mm)	min. Depth (mm)	Backing material	Single sided seal	Performance (mins)	Standard
Concrete wall / concrete wall	100	20	12.5	Ø 20mm PE rod		120	EN
		20	10	Ø 20mm PE rod	✓	120	45
		30	15	Ø 30mm PE rod	✓	120	30
		40	20	Ø 40mm PE rod	✓	120	30
		50	25	Ø 50mm PE rod	✓	120	60

Substrate	min. Substrate thickness (mm)	max. width (mm)	min. Depth (mm)	Backing material	Single sided seal	Performance (mins)	Standard
Concrete floor / concrete floor	150	20	10	Ø 20mm PE rod	✓	240	EN
		20	10	Ø 20mm PE rod	✓	240	45
		50	25	Ø 50mm PE rod	✓	240	90

Substrate	min. Substrate thickness (mm)	max. width (mm)	min. Depth (mm)	Backing material	Single sided seal	Performance (mins)	Standard
Concrete wall / steel	100	20	10	Ø 20mm PE rod	✓	120	EN
		30	15	Ø 30mm PE rod	✓	45	30
		40	20	Ø 40mm PE rod	✓	45	30
		50	25	Ø 50mm PE rod	✓	45	30
		50	25	Ø 50mm PE rod	✓	45	30

Substrate	min. Substrate thickness (mm)	max. width (mm)	min. Depth (mm)	Backing material	Single sided seal	Performance (mins)	Standard
Concrete wall / softwood	100	20	10	Ø 20mm PE rod	✓	30	EN
		30	15	Ø 30mm PE rod	✓	30	15
		40	20	Ø 40mm PE rod	✓	30	15
		50	25	Ø 50mm PE rod	✓	45	30
		50	50	Ø 50mm PE rod	✓	45	45

Substrate	min. Substrate thickness (mm)	max. width (mm)	min. Depth (mm)	Backing material	Single sided seal	Performance (mins)	Standard
Concrete floor / steel	150	20	10	Ø 20mm PE rod	✓	120	EN
		50	50	Ø 50mm PE rod	✓	240	90

**E**

**VERTICAL SEAL  
ACOUSTIC INTUMESCENT SEALANT BETWEEN  
CONCRETE AND PLASTERBOARD SUBSTRATES**

- Flexible wall
  - min. 120mm thick
  - min. 2no. board layers
  - Fire rated to at least the same fire rating as the firestop seal
- ROCKWOOL FIREPRO® Acoustic Intumescent Sealant
  - max. width and depth as per table
- Backing rod
- Rigid wall
  - min. 100mm thick
  - Fire rated to at least the same fire rating as the firestop seal

**F**

**HORIZONTAL SEAL  
ACOUSTIC INTUMESCENT SEALANT BETWEEN PLASTERBOARD HEAD  
OF WALL AND CONCRETE SOFFIT**

- Rigid floor
  - Fire rated to at least the same fire rating as the firestop seal
- ROCKWOOL FIREPRO® Acoustic Intumescent Sealant
  - max. width and depth as per table
- Flexible wall
  - min. 120mm thick
  - min. 2no. board layers
  - Fire rated to at least the same fire rating as the firestop seal

**ROCKWOOL Standard Detail:**

Supporting Evidence : ETA-20/1129 / UL-EU-01203-CPR

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

Movement Accommodation: +/- 12% of Joint Width

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

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

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490

Integrity Performance:	Insulation Performance:
See Table	See Table

Pencoed, Bridgend,  
South Wales CF35 6NY  
t: 01656 868490  
[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

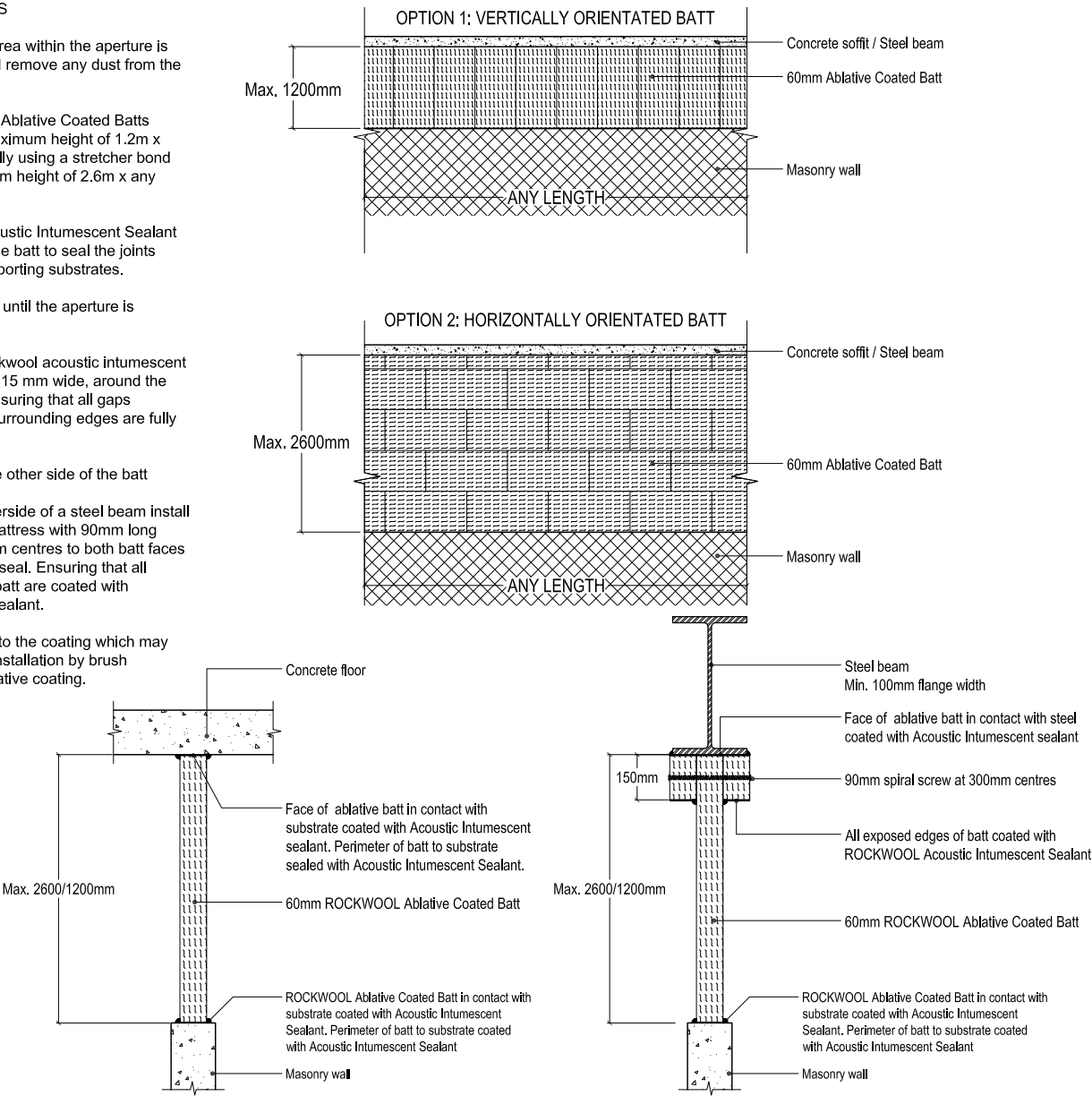
Drawing Title:

**FIREPRO® Acoustic Intumescent Sealant  
Application Range**

Scale: NTS	Date: JUN 21
Sheet Size: A3	Drawn By: S. HIRONS Checked By: L. HAM
Drawing Number: RWS-D-AIS-0001	Revision: B

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 to a maximum height of 1.2m x any length or horizontally using a stretcher bond pattern up to a maximum height of 2.6m x any length.
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. If sealing to the underside of a steel beam install an additional 150mm pattress with 90mm long pigtail screws at 300mm centres to both batt faces along the length of the seal. Ensuring that all exposed edges of the batt are coated with acoustic Intumescent sealant.
8. Repair any damage to the coating which may have occurred during installation by brush applying Rockwool ablative coating.



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 ratings. 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 Standard Detail:

Supporting Evidence : WF 311319-3

Maximum Opening Size:

Vertical Batt Joints - 1200m high x any length  
Horizontal Batt Joints - 2600m high x any length

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

Flexible wall constructions 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 100mm.

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 solutions.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490

Integrity Performance:	Insulation Performance:
60 Minutes	60 Minutes / N/A



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[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:  
60mm Ablative Coated Batt:  
Single Layer Head of Wall

Scale: NTS	Date: AUG 23
Sheet Size: A3	Drawn By: S.HIRONS Checked By: L.HAM
Drawing Number: RWS-ACB-1301	Revision: A

## 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 to a maximum height of 1.2m x any length or horizontally using a stretcher bond pattern up to a maximum height of 2.6m x any length.

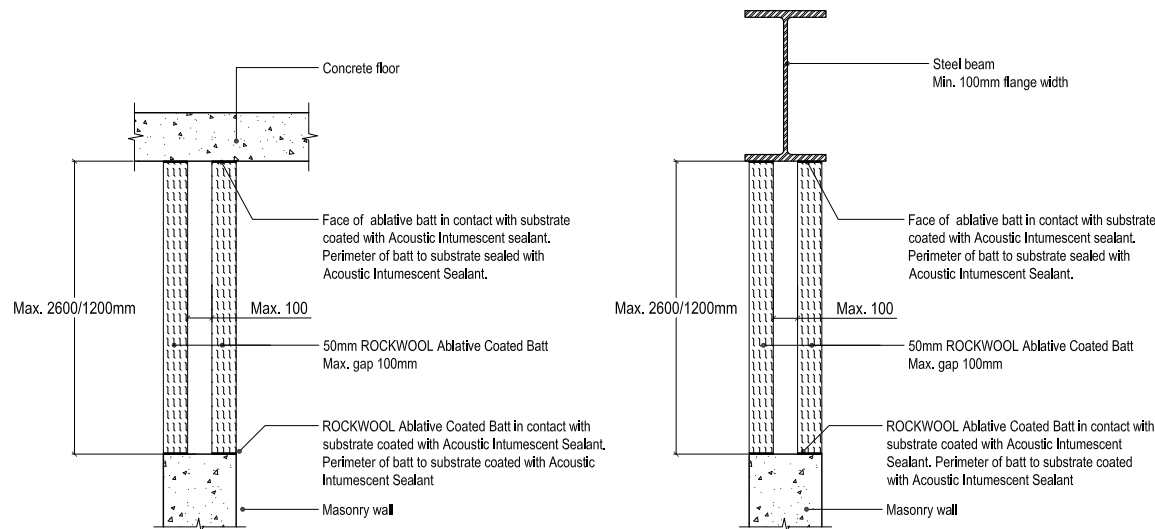
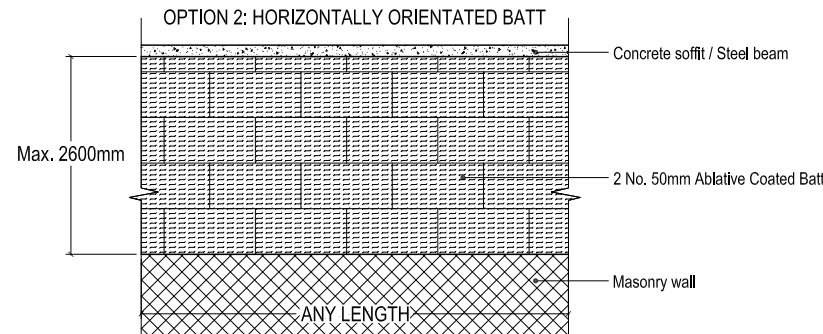
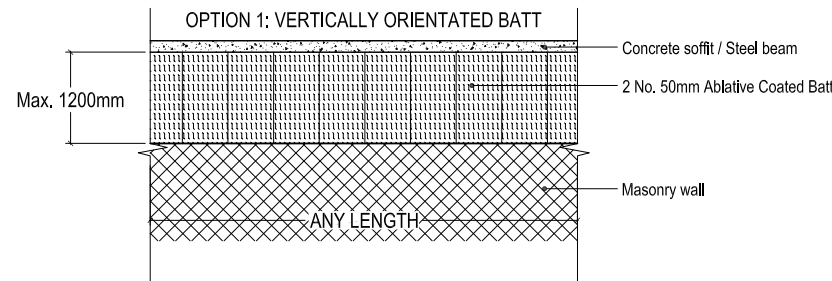
3. Apply Rockwool Acoustic Intumescent Sealant to the outer edges of the batt to seal the joints between batts and supporting substrates.

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 steps 2-5 on the other batt layer ensuring the cavity between ablative batts is no greater than 100mm

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



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 Standard Detail:

Supporting Evidence : WF 311319-3

Maximum Opening Size:

Vertical Batt Joints - 1200m high x any length  
Horizontal Batt Joints - 2600m high x any length

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

The cavity between ablative coated batts must not exceed 100mm.

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 solutions.

These products should only be utilised for applications as outlined in the relevant ROCKWOOL product data sheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490

Integrity Performance:	Insulation Performance:
60 Minutes	60 Minutes / N/A



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[technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Drawing Title:

50mm Ablative Coated Batt:  
Double Layer Head of Wall

Scale:	NTS	Date:	JUN 23
Sheet Size:	A3	Drawn By:	RW TECH
		Checked By:	L.HAM
Drawing Number:	RWSD-ACB-0301	Revision:	-



## **FIRESTOPPING PROJECT DETAILS**

- **Appendix**

# FIRAS Contract in hand form submitted - TE2451

URN	TE2451
Client Name	BAM Construction
Installation Address	Wharfedale Hospital Newall Carr Road Otley
Installation Town	Leeds
Installation County	West Yorkshire
Installation Postcode	LS21 2LY
Contractor Ref	210 - WECH
Onsite Contact	Simon Jones
Onsite Phone	07738320885
Start Date	27/11/2023
Completion Date	27/04/2024
Other Information	

Value of Fire Protection Works	50000
Scope of Job	Refurbishment
Phase	

Product Type	Manufacturer	Product	Fire Protection
Penetration Sealing	Rockwool	Acoustic Intumescent Sealant	60 minutes
Penetration Sealing	Rockwool	50mm Ablative Batt	60 minutes
Penetration Sealing	Rockwool	Firepro Collar	60 minutes
Penetration Sealing	Rockwool	HE Mastic	60 minutes

Submitted By	Mathew Bates
Items outside scope of work of Installation Company and exceptions	Only works to New Fire Rated Partitions are covered in the scope of our Firas Accreditation works
Created Date	23/11/2023



**Certificate No. EZ8113**

This is to certify that:

**SPARTA SYSTEMS**

At the following address:

**Unit 2, West Chevin Business Centre,  
West Chevin Road, West Yorkshire, LS21 3HA**

complies with the requirements of:

**FIRAS CERTIFICATION SCHEME**

***Application of passive fire resisting products using***

***Penetration Sealing Systems***

To check the current validity of this certificate please contact FIRAS direct or visit our website

[www.firas-database.co.uk](http://www.firas-database.co.uk)

*This certification is provided to the client for its own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose*

**Issue No : 2  
Issue Date: 29<sup>th</sup> August 2019  
Original Issue Date: 31<sup>st</sup> March 2017  
Valid to : 31<sup>st</sup> March 2024**



Paul Duggan  
EWC Certification Manager

Contact Details

Employee Name

Andrei Bagrin

Position / Job Title

Operator

Email

mbates@spartasystems.co.uk

Give any other details relevant to your application  
(eg. national vocational qualifications)

Status

Approved

Firas ID

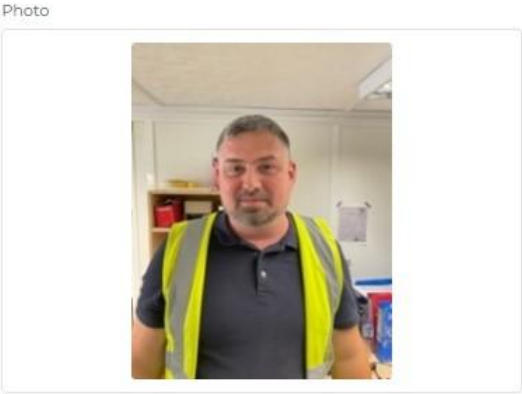
T03645

Level of Assessment

Technician

Mobile Phone

Mobile Number



Product Groups Assessed as Competent

	Level	Date Awarded	Reassess Due	Reassessment
<input checked="" type="checkbox"/> Penetration Sealing	Supervisor	11/07/2023	11/07/2026	

FIRAS Assessment History

Date	Module	Level
11/05/2017	Penetration Sealing	Operator
26/06/2023	Penetration Sealing	Supervisor



## Rockwool Data and Test information from December 2023

### Fire Resistance Test WF 521527

- Substrate was a 100mm double skin flexible wall construction
- A 457x152 steel beam penetrated specimens A, B, D & E which was positioned tight to the aperture edge (600 x 600 aperture)
- **Specimens B & E consisted of double 50mm ablative coated batt**
- Specimens A & D consisted of softseal
- Specimens D & E included a LI (locally interrupted) 50mm ablative batt box 300mm in length to each side, secured with 100mm long pigtail screws, batt returned to web of steel





Figure 11 – Cross section detail view service B1

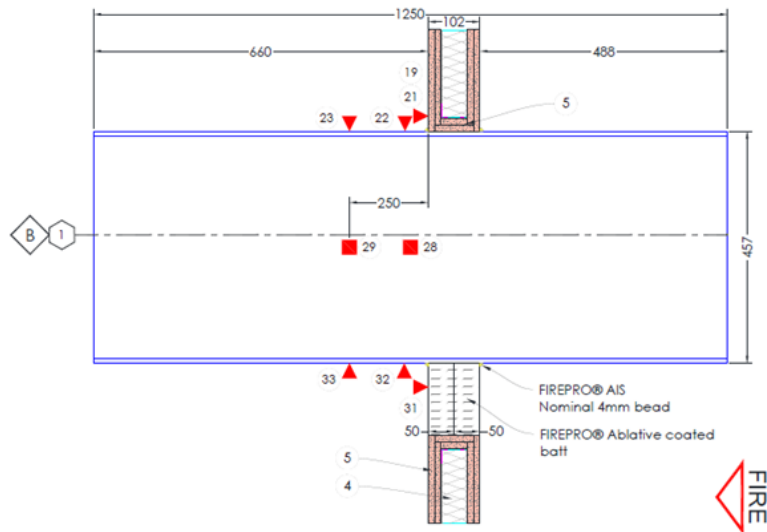
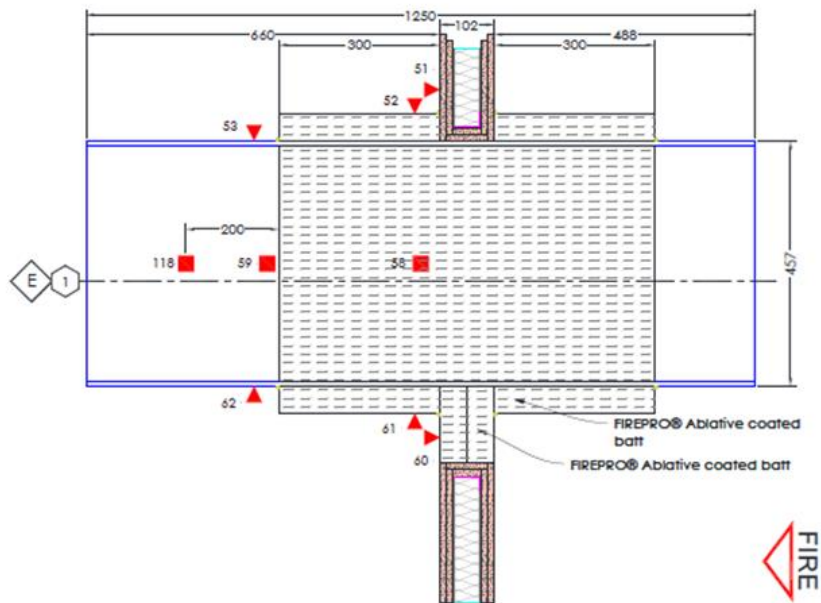
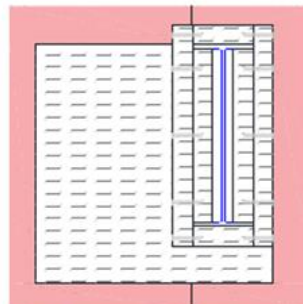


Figure 14 – Cross section detail view service E1



Reference Legend		
Item	Description	Size
1	Steel T beam	1250mm x 457mm x 152mm
2	FIREPRO® Ablative coated batt	100mm (2 X 50mm layers) thickness
3	Thermocouple to specimen service or position	
4	Item Number	



B-B  
2

CROSS SECTION DETAIL VIEW  
SERVICE E1

-  
-

VERTICAL SECTION THROUGH STEEL  
CLADDING SERVICE E1

## Test Results

Specimen	Integrity (minutes)			Insulation (minutes)
	Cotton Pad	Sustained flaming	Gap Gauge	
A	132*	132*	132*	57
A Seal	132*	132*	132*	132*
A Overall	132*	132*	132*	57
B	132*	132*	132*	50
B Seal	132*	132*	132*	132*
B Overall	132*	132*	132*	50
C Overall	132*	132*	132*	132*
D	132*	132*	132*	132*
D Seal	132*	132*	132*	132*
D Overall	132*	132*	132*	132*
E	132*	132*	132*	132*
E Seal	132*	132*	132*	132*
E Overall	132*	132*	132*	132*

### In terms of the performance:

- Specimens A & B where the steel was unlagged achieved 120 minutes integrity but failed insulation before 60 minutes
- Specimens D & E which included LI lagging achieved 120 minutes integrity and insulation

### Mathew Bates Notes:

In summary 2 layers of 50mm Batt in a formed opening will perform at 120min Integrity but only 30min Insulation, so this can be utilised where the integrity is prioritised over Insulation rating and would be detail B

Where a beam penetration needs to achieve 120min Integrity and 120min Insulation then in addition to the opening being sealed with double 50mm Batt the beam also needs to be wrapped with 50mm Ablative Batt, 300mm in length to each side, secured with 100mm long pigtail screws, batt returned to web of steel.

## Section 10: Protection of openings and fire-stopping

### Introduction

- 10.1** The performance of a **fire-separating element** should not be impaired. Every joint, imperfect fit and opening for services should be sealed. **Fire-stopping** delays the spread of fire and, generally, the spread of smoke as well.

### Openings for pipes

- 10.2** Pipes passing through a **fire-separating element**, unless in a **protected shaft**, should comply with one of the alternatives A, B or C below.

#### Alternative A: Proprietary seals (any pipe diameter)

- 10.3** Provide a proprietary, tested sealing system that will maintain the **fire resistance** of the wall, floor or **cavity barrier**.

#### Alternative B: Pipes with a restricted diameter

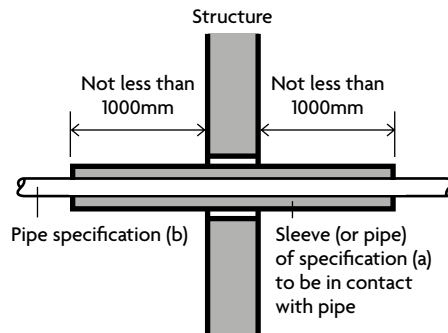
- 10.4** Where a proprietary sealing system is not used, **fire-stop** around the **pipe**, keeping the opening for the **pipe** as small as possible. The nominal internal diameter of the **pipe** should not exceed the relevant dimension given in Table 10.1.

#### Alternative C: Sleeving

- 10.5** A **pipe** with a maximum nominal internal diameter of 160mm may be used with a sleeve made out of a high melting point metal, as shown in Diagram 10.1, if the **pipe** is made of one of the following.
- Lead.
  - Aluminium.
  - Aluminium alloy.
  - Fibre-cement.
  - uPVC (**pipes** should also comply with either **BS 4514** or **BS 5255**).

A high melting point metal means any metal (such as cast iron, copper or steel) which, if exposed to a temperature of 800°C, will not soften or fracture to the extent that flame or hot gas will pass through the wall of the **pipe**.

See para 10.5



**NOTES:**

1. Make the opening in the structure as small as possible and provide fire-stopping between pipe and structure.
2. See Table 10.1 for materials specification.
3. The sleeve should be class A1 rated.

Diagram 10.1 Pipes penetrating structure

**Table 10.1 Maximum nominal internal diameter of pipes passing through a compartment wall/floor**

Situation	Pipe material and maximum nominal internal diameter (mm)		
	(a)	(b)	(c)
	High melting point metal <sup>(1)</sup>	Lead, aluminium, aluminium alloy, uPVC <sup>(2)</sup> , fibre-cement	Any other material
1. Structure (but not a wall separating buildings) enclosing a protected shaft that is not a stairway or a lift shaft	160	110	40
2. Any other situation	160	40	40

**NOTES:**

1. Any metal (such as cast iron, copper or steel) which, if exposed to a temperature of 800°C, will not soften or fracture to the extent that flame or hot gas will pass through the wall of the pipe.
2. uPVC pipes that comply with either **BS 4514** or **BS 5255**.