



#### CERTIFICATE OF APPROVAL No CF 513

This is to certify that, in accordance with TS00 General Requirements for Certification of Fire Protection Products The undermentioned products of

#### **FSI LIMITED**

Westminster Industrial Estate, Tamworth Road, Measham, DE12 7DS Tel: 01530 515130 Fax: 01530 273564

Have been assessed against the requirements of the Technical Schedule(s) denoted below and are approved for use subject to the conditions appended hereto:

CERTIFIED PRODUCT

Stopseal Batts & Coating Silverflame Batts & Coating (with Pyrocoustic Sealant)

#### TECHNICAL SCHEDULE TS03 Penetration Sealing Systems

Signed and sealed for and on behalf of Exova (UK) Limited trading as Warrington Certification

Paul Duggan Certification Manager



Issued: Revised: Valid to:

Page 1 of 37









## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

- 1. This approval relates to the use of Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant) for the fire protection where services are penetrating walls. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the thickness and acceptable services for Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant) required to provide fire resistance periods in accordance with BS 476: Part 20: 1987 or BSEN 1366-3: 2009 of up to 240 minutes for differing services and wall constructions and up to 120 minutes for floor constructions. The scope of this certification complies with the guidelines stated in the ASFP Redbook: 3<sup>rd</sup> Edition for 3<sup>rd</sup> party certification schemes.
- 2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'
- 3. The product is approved on the basis of:
  - i) Initial type testing
  - ii) Audit testing at the frequency specified in TS03
  - iii) A design appraisal against TS03
  - iv) Inspection and surveillance of factory production control
- 4. The stud partition drywalls, masonry or concrete walls shall be at least 130 mm thick and have at least the same fire rating as that required for the penetration seal.
- 5. The services which may be fitted through the seals are cable ladders, cables, pipes and ducts as detailed within the Approval Matrix included in this Certificate.
- 6. The approval relates to ongoing production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

Page 2 of 37 Signed E/055

ful ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BS476 - Up To 120 Minute Flexible and Rigid Wall Construction

Product Name: Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Seala					
Coating / DFT:		Silverflame or Stopseal Coating/1mm thick			
Density:		140 kg/m <sup>3</sup> minimum			
Barrier		Service	Integrity	Insulation	
	Cable L	adder (340 mm wide by 100 mm high max.)	120 minutes	60 minutes	
Oin als laves		Cables up to 26 mm diameter	120 minutes	N/A	
Single layer		Steel pipes up to 60 mm diameter	120 minutes	N/A	
(50 & 60 mm)		PVC pipes up to 110 mm diameter*	60 minutes	N/A	
	Steel	ducts (445 mm wide by 445 mm high max.)	120 minutes	N/A	
	Cable L	adder (340 mm wide by 100 mm high max.)	120 minutes	60 minutes	
Double layer		Cables up to 26 mm diameter	120 minutes	60 minutes	
(100 & 120		Steel pipes up to 60 mm diameter	120 minutes	30 minutes	
mm)		PVC pipes up to 110 mm diameter*	60 minutes	N/A	
	Steel	ducts (445 mm wide by 445 mm high max.)	120 minutes	N/A	
* PVC pipes mu	ist be used ir	n conjunction with Stopseal Pipe wraps over seale	d with ablative coat	ing	
Maximum aper	ture:	<ul> <li>2400 mm high by 1200 mm (120 minutes integrity performance)</li> <li>2880 mm high by 1440 mm (60 minutes integrity performance)</li> <li>Multiple apertures must be separated by a minimum of 200 mm in drywalls and concrete/masonry constructions.</li> <li>The walls shall be a minimum of 130 mm thick.</li> </ul>			
Walls		All concrete, masonry or drywalls shall have at l required for the barrier.	east the same fire	rating as that	
Application Technique:		<b>Concrete/masonry walls</b> : Boards tightly friction fitted into the aperture at m and the board to aperture junction is sealed with Pyrocoustic Sealant. Apertures for penetrating it sealed with Silverflame or Stopseal coating or P separated by at least 400 mm. <b>Drywalls:</b> As above and additionally the aperture must be	Silverflame or Stop ems are to be tightl yrocoustic Sealant	oseal coating or y fitting and be and must be	
		lined with two layers of 15 mm thick Type 'F' gyp	sum boards.		
Service Coat-E		Not required		ot known	
Service Suppo		Services should be rigidly supported via steel an further than 500 mm from the surface of the sea			
Requirements:		ling system on both	Taces.		

Page 3 of 37 Signed E/055

Pal ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





#### Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BS476 - Up To 240 minutes Rigid Wall Construction

Product Name		Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)				
Coating / DFT:		Silverflame or Stopseal Coating/1mm thick				
Density:		140 kg/m <sup>3</sup> minimum				
Barrier		Service	Integrity	Insulation		
	Cable La	adder (340 mm wide by 100 mm high max.)	240 minutes	N/A		
Single layer (50 & 60 mm)		Cables up to 20 mm diameter	240 minutes	N/A		
		Areas of seal without services	240 minutes	60 minutes		
Double layer	Cable La	adder (340 mm wide by 100 mm high max.)	240 minutes	60 minutes		
(100 & 120	Cables up to 20 mm diameter		240 minutes	60 minutes		
mm)		Areas of seal without services	240 minutes	240 minutes		
Maximum apei	rture:	1000 mm high and 660 mm wide subject to a maximum area of 0.6 m <sup>2</sup> . Multiple apertures must be separated by a minimum of 200 mm in concrete/masonry constructions.				
Walls		The walls shall be a minimum of 140 mm thick All concrete or masonry walls shall have at lea for the barrier.	-	ting as that required		
Application Te	chnique:	<b>Concrete/masonry walls</b> : Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant and must be separated by at least 200 mm.				
Service Coat-E	Back :	Not required	U Value:	Not known		
Service Suppo Requirements:		Services should be rigidly supported via steel a than 500 mm from the surface of the sealing s				

Page 4 of 37 Signed E/055

Pal ligg-

Issued: Revised: Valid to:

20<sup>th</sup> November 2006 5<sup>th</sup> September 2017 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BS476 - Up To 120 Minute Rigid Floor Construction

Product Name	:	Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)				
Coating / DFT:		Silverflame or Stopseal Coating /1 mm thick				
Density: 140 kg/m <sup>3</sup> minimum						
Barrier		Service	Integrity	Insulation		
Double lover	Cable I	_adder (340 mm wide by 100 mm high max.)	120 minutes	60 minutes		
Double layer (100 & 120		Cables up to 20 mm diameter	120 minutes	60 minutes		
mm)	-	Areas of seal without services	120 minutes	120 minutes		
Maximum ape	rture:	1200 mm long and 600 mm wide subject to a maximum area of 0.72 m <sup>2</sup> . Multiple apertures must be separated by a minimum of 200 mm in concrete constructions.				
Floors		The floors shall be a minimum of 115 mm thick. All concrete floors shall have at least the same fire rating as that required for the barrier.				
Application Te	echnique:	<b>Concrete floors:</b> Boards cut to size (not jointed) and tightly friction fitted into the aperture at mid-depth of the floor. Board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant and must be separated by at least 240 mm.				
Service Coat-E	Back :	Not required U Value: Not known				
Service Suppo Requirements		Services should be rigidly supported via steel ar than 500 mm from the surface of the sealing sys				

Page 5 of 37 Signed E/055

Pal ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 30 Minute Flexible and Rigid Wall Construction

Product	oduct Name: Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)						
Coating /	/ DFT:		Silverflame or Stopseal Coating/1mm thick				
Density:			140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service Integrity				
Single layer Patress Both	570 x 200	x type ' 500mm wi	de x 60mm deep steel cable basket containing 3 B' cable and 20 x bundle of telecoms cables de x 60mm deep steel cable tray containing 1 x ble, 3 x type 'A1' cable, 3 x type 'A2' cable, and 3 x type 'A3' cable	90	90		
Faces (50 & 60 mm)	200 x 200	20mm dia 150mm wi	Im dia Adaptaflex SPL20 flexible conduit Kopex KSU 316 stainless steel flexible conduit de x 60mm deep steel cable tray containing 4 x Gold (Firealarm cable 7mm dia red) Cables				
Maximun	n aperture:		Multiple apertures must be separated by a min concrete/masonry constructions.	imum of 200 mm	n in drywalls and in		
Walls			The walls shall be a minimum of 75 mm thick. All concrete, masonry or drywalls shall have a required for the barrier.	at least the same	e fire rating as that		
Application Technique:			Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres				
Service (	Coat-Back :		Not required	U Value:	Not known		
Service SupportServices should be rigidly supported via steel angles, hangars or chaRequirements:further than 1025 mm from the surface of the sealing system on both faces							

Page 6 of 37 Signed E/055

Pal ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 60 Minute Flexible and Rigid Wall Construction

Product Name		Silverflame Batts & Coating/Stopseal Batts & Co	ating (with Pyrod	coustic Sealant)	
Coating / DFT:		Silverflame or Stopseal Coating/1mm thick			
Density: 140 kg/m <sup>3</sup> minimum					
Barrier		Service	Integrity	Insulation	
		<sup>1</sup> Cable Trays and Ladder	60	60	
Cingle lover		<sup>1</sup> Cables up to 80 mm diameter	60	60	
Single layer	<sup>1</sup> 100mm dia	ameter bundle telecommunication cables type F	60	60	
(50 & 60 mm)	<sup>1</sup> Unshe	athed electrical cables up to 24mm diameter	60	60	
	*Steel or C	Copper pipes 108mm diameter 1.5mm-14.2mm wall <sup>1</sup>	60	45	
<sup>1</sup> Insulated with 6mm FSi Thermal Defense Wrap 300mm either side of the seal <sup>2</sup> Insulated with continuous interrupted 40mm thick stone wool insulation (min 140kg.m <sup>3</sup> )					
Maximum aper	rture:	600mm high by 600mm. Multiple apertures must be separated by a minimum of 400 mm in drywalls and 240 mm in concrete/masonry constructions.			
		The walls shall be a minimum of 100 mm thick.			
Walls		All concrete, masonry or drywalls shall have at least the same fire rating as that required for the barrier.			
Application Technique:		Concrete/masonry walls: Boards tightly friction fitted into the aperture at and the board to aperture junction is sealed with Pyrocoustic Sealant. Apertures for penetrating is sealed with Silverflame or Stopseal coating or separated by at least 200 mm. Drywalls: As above	n Silverflame or tems are to be	Stopseal coating or tightly fitting and be	
Service Coat-E	Back :	Not required	U Value:	Not known	
Service Suppo		Services should be rigidly supported via steel angles, hangars or channels, not			
Requirements		further than 250 mm from the surface of the seal	ing system on b	oth faces.	

Page 7 of 37 Signed E/055

Pal ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name	e:		Silverflame Batts & Coating/Stopseal Batts & Co	ating (with Pyroco	ustic Sealant)
Coating / DFT	:		Silverflame or Stopseal Coating/1mm thick		·
Density:			140 kg/m <sup>3</sup> minimum		
Barrier	Max Opening (mm)		Service	Integrity	Insulation
			Cable Trays and Ladder	60	60
			Cables up to 21 mm diameter	60	60
			Cables 22mm – 80 mm diameter	60	45
		100m	m diameter bundle telecommunication cables type F	60	60
	1200 high	Unsh	eathed electrical cables up to 17mm diameter	60	30
Daubla lavar	by 730	Unshe	eathed electrical cables 18mm-24mm diameter	60	15
Double layer (50 & 60	wide	Ste	eel or copper conduits up to 16mm diameter	60	15
(30 & 60 mm)			PVC conduits up to 16mm diameter	60	60
		*Steel c	*Steel or Copper pipes 40mm diameter 1.5mm-14.2mm wall <sup>1</sup>		60
			el or Copper pipes 40mm – 159mm diameter 2.3mm-14.2mm wall <sup>3</sup>	60	60
	600 high by 600	Steel o	or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall <sup>2</sup>	120	45
	wide	Steel	Steel or Copper Pipe 42mm Ø, 1mm – 14.2mm wall <sup>2</sup>		60
<sup>2</sup> Insulated with <sup>3</sup> Insulated with	25mm thick 30mm thick	continuou continuou	us sustained foil faced glass wool insulation (min 8 us sustained foil faced glass wool insulation (min 3 us sustained foil faced glass wool insulation (min 8 de annulus FSi Pyrpro HPE Sealant to both faces	30kg.m <sup>3</sup> ) 30kg.m <sup>3</sup> )	
Aperture Sepa	aration:		Multiple apertures must be separated by a mi concrete/masonry constructions.	nimum of 200 m	m in drywalls and
Walls			The walls shall be a minimum of 100 mm thick. All concrete, masonry or drywalls shall have a required for the barrier.	t least the same	fire rating as that
Application Technique:			Boards tightly friction fitted into the aperture at and the board to aperture junction is sealed with Pyrocoustic Sealant. Apertures for penetrating is sealed with Silverflame or Stopseal coating or P	h Silverflame or S items are to be tig	topseal coating or phtly fitting and be
Service Coat-Back : Not required					Not known
Service Supp	ort Requiren	nents:	Services should be rigidly supported via steel further than 250 mm from the surface of the seal		

Page 8 of 37 Signed E/055

Pal ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name: Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)				oustic Sealant)		
Coating / DFT	:		Silverflame or Stopseal Coating/1mm thick			
Density:			140 kg/m <sup>3</sup> minimum			
Barrier	Max Opening (mm)		Service Integrity Insulation			
Double layer	1200 high	<sup>1</sup> Steel	or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall <sup>1</sup> Steel 42-324mm Ø, 16mm wall	45	45	
(50 & 60 mm)	by 730 wide		or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall Steel 42-324mm Ø, 16mm wall thickness.	120	45	
<sup>1</sup> Insulated with 2 <sup>2</sup> Coated with FS	0mm thick loca i PST coating	al interrupt along the	ed (400mm) foil faced glass wool insulation (min 40kg.m penetration 2mm DFT (L/I 400mm)	•		
Aperture Sepa	aration:		Multiple apertures must be separated by a minimum of 200 mm in drywalls and concrete/masonry constructions. Clusters of pipes and linear separation of 0mm approved within the Batt			
Walls			The walls shall be a minimum of 100 mm thick. All concrete, masonry or drywalls shall have a required for the barrier.			
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant			
Service Coat-Back :			<sup>2</sup> Coated with FSi PST coating along the penetration 2mm DFT (L/I 400mm)	U Value:	Not known	
Service Support Requirements:			Services should be rigidly supported via steel further than 400 mm from the surface of the seal			

Page 9 of 37 Signed E/055



Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name: Silverflame Batts & Coating/Stopseal Batts & Coating					coustic Sealant)
Coating / DFT	:		Silverflame or Stopseal Coating/1mm thick		
Density:			140 kg/m <sup>3</sup> minimum		
Barrier	Max Opening (mm)		Service	Integrity	Insulation
			or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm hickness. 13-25mm thick K Flex ST Insulation (C/S)	120	60
			el or Copper Pipe 42mm Ø, 1 – 14.2mm wall ness. 13-25mm thick K Flex ST insulation (C/S)	120	90
Double layer (50 & 60 mm)	1200 high by 750 wide		or Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall ness. 25 -40mm thick Kingspan Kooltherm FM insulation (C/S)	120	60
		thicki <sup>1</sup> Ste	eel or Copper Pipe 42mm Ø, 1–14.2mm wall ness. 25 -40mm thick Kingspan Kooltherm FM insulation (C/S) el or Copper Pipe 42mm Ø, 1.2–14.2mm wall kness. 50mm thick glassfibre insulation (C/S)	120	90
<sup>2</sup> x 2mm thick la	ayers of PipeBl	oc EL inst	alled both sides of the Stopseal Fire Batt		
Aperture Sepa	aration:		Multiple apertures must be separated by a mi concrete/masonry constructions.	nimum of 200 r	mm in drywalls and
Walls			The walls shall be a minimum of 100 mm thick. All concrete, masonry or drywalls shall have a required for the barrier.	t least the sam	e fire rating as that
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant		
Service Coat-	Back :		N/A	U Value:	Not known
Service Support Requirements:			Services should be rigidly supported via steel further than 400 mm from the surface of the seal		

Page 10 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





#### Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name	ə:		Silverflame Batts & Coating/Stopse	al Batts & Co	ating (with Pyroc	oustic Sealant)
Coating / DFT	:		Silverflame or Stopseal Coating/1m	m thick		
Density:			140 kg/m <sup>3</sup> minimum			
Barrier	Max Opening (mm)		Service	Pipe Bloc PCP Ref	Integrity	Insulation
		P	VC Pipe 32mm Ø, 1.8mm wall	32mm		
		P	VC Pipe 40mm Ø, 1.8mm wall	40mm		
		P	VC Pipe 50mm Ø, 1.8mm wall	50mm		
		PVC	Pipe 55mm Ø, 1.8-2.3mm wall	55mm		
		PV	C Pipe 63mm Ø, 2.3-3mm wall	63mm		
Devil 1 Januar	1200 high	PVC	C Pipe 75mm Ø, 3.1-4.8mm wall	75mm		
Double layer (50 & 60 mm)	by 730	PVC	C Pipe 82mm Ø, 3.1-4.8mm wall	82mm	120	120
	wide	PVC	C Pipe 90mm Ø, 4.2-7.4mm wall	90mm		
		PVC	Pipe 100mm Ø, 4.2-7.4mm wall	100mm		
		PVC	Pipe 110mm Ø, 4.2-7.4mm wall	110mm		
		PVC Pipe 125mm Ø, 6mm wall		125mm		
		PVC Pipe 140mm Ø, 6.1-7.5mm wall		140mm		
		PVC	Pipe 160mm Ø, 6.2-9.5mm wall	160mm		
Aperture Sepa	aration:		Multiple apertures must be separa concrete/masonry constructions. Clusters of pipes and linear separa	-		
Walls			The walls shall be a minimum of 10 All concrete, masonry or drywalls required for the barrier.	0 mm thick. shall have a	it least the same	fire rating as th
Application Technique:			Boards tightly friction fitted into the and the board to aperture junction Pyrocoustic Sealant. Apertures for sealed with Silverflame or Stopseal Collars secured both faces of the through to Stopseal Fire Batt	is sealed wit penetrating coating or P	h Silverflame or s items are to be to yrocoustic Sealar	Stopseal coating of ghtly fitting and boot the state of the second seco
Service Coat-Back :			N/A		U Value:	Not known
Service Supp	ort Requiren	nents:	Services should be rigidly suppor further than 400 mm from the surface			

Page 11 of 37 Signed E/055

Pul ligg-

Issued: Revised: Valid to:

20<sup>th</sup> November 2006 5<sup>th</sup> September 2017 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name	e:		Silverflame Batts & Coating/Stopse	al Batts & Co	ating (with Pyroc	coustic Sealant)
Coating / DFT			Silverflame or Stopseal Coating/1m	m thick		
Density:			140 kg/m <sup>3</sup> minimum			
Barrier	Max Opening (mm)		Service	Pipe Bloc PCP Ref	Integrity	Insulation
		F	PP Pipe 32mm Ø, 2.9mm wall	32mm		
		F	P Pipe 40mm Ø, 2.9mm wall	40mm		
		F	PP Pipe 50mm Ø, 2.9mm wall	50mm		
		PP	Pipe 55mm Ø, 2.9-4.4mm wall	55mm		
		PP	Pipe 63mm Ø, 2.9-4.4mm wall	63mm		
Develop laws	1200 high	PP	Pipe 75mm Ø, 2.8-6.7mm wall	75mm		
Double layer (50 & 60 mm)	by 730	PP	Pipe 82mm Ø, 2.8-6.7mm wall	82mm	120	120
	wide	PF	Pipe 90mm Ø, 2.7-10mm wall	90mm		
		PP	Pipe 100mm Ø, 2.7-10mm wall	100mm	1	
		PP	Pipe 110mm Ø, 2.7-10mm wall	110mm		
		Р	P Pipe 125mm Ø, 3.1mm wall	125mm		
		PF	PP Pipe 140mm Ø, 3.5-8mm wall 1			
		PP	Pipe 160mm Ø, 4-14.6mm wall	160mm		
Aperture Sepa	aration:		Multiple apertures must be separated by a minimum of 200 mm in drywalls and concrete/masonry constructions. Clusters of pipes and linear separation of 0mm approved within the Batt			
Walls			The walls shall be a minimum of 10 All concrete, masonry or drywalls required for the barrier.	0 mm thick.		
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board join and the board to aperture junction is sealed with Silverflame or Stopseal coating of Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and b sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant Collars secured both faces of the substrate utilising 80mm long steel pig tail scre through to Stopseal Fire Batt			
Service Coat-Back :			N/A		U Value:	Not known
Service Supp	ort Requirem	ents:	Services should be rigidly suppor further than 400 mm from the surface			

Page 12 of 37 Signed E/055

ful ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





#### Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name	9:	Silverflame Batts & Coating/Stop	seal Batts & Co	ating (with Pyrod	coustic Sealant)	
Coating / DFT	:	Silverflame or Stopseal Coating/	1mm thick			
Density:		140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening	Service	Pipe Bloc	Integrity	Insulation	
	(mm)		PCP Ref			
		PE Pipe 32mm Ø, 2.9mm wall	32mm			
		PE Pipe 40mm Ø, 2.9mm wall	40mm			
		PE Pipe 50mm Ø, 2.9mm wall	50mm			
	-	PE Pipe 55mm Ø, 2.9-4.4mm wall	55mm			
	-	PE Pipe 63mm Ø, 2.9-4.4mm wall	63mm			
Double layer	1200 high	PE Pipe 75mm Ø, 2.8-6.7mm wall	75mm			
(50 & 60 mm)	by 730	PE Pipe 82mm Ø, 2.8-6.7mm wall	82mm	120	120	
(***********	wide	PE Pipe 90mm Ø, 2.7-10mm wall	90mm			
		PE Pipe 100mm Ø, 2.7-10mm wall	100mm			
		PE Pipe 110mm Ø, 2.7-10mm wall	110mm			
		PE Pipe 125mm Ø, 3.1mm wall	125mm			
		PE Pipe 140mm Ø, 3.9-5.8mm wall	140mm			
		PE Pipe 160mm Ø, 4.9-9.5mm wall	160mm			
		Multiple apertures must be sep	Multiple apertures must be separated by a minimum of 200 mm in drywalls and			
Aperture Sepa	aration:	concrete/masonry constructions.				
		Clusters of pipes and linear sepa	Clusters of pipes and linear separation of 0mm approved within the Batt			
		The walls shall be a minimum of	The walls shall be a minimum of 100 mm thick.			
Walls		All concrete, masonry or drywal	All concrete, masonry or drywalls shall have at least the same fire rating as that			
		required for the barrier.				
			the aperture at	mid-depth of th	e wall. Board joints	
			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or			
		Pyrocoustic Sealant. Apertures f				
Application T	echnique:					
			sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant			
			Collars secured both faces of the substrate utilising 80mm long steel pig tail screw			
		through to Stopseal Fire Batt				
Service Coat-	Back :	N/A		U Value:	Not known	
Sanviaa Sunn	ort Boquiror	Services should be rigidly supp	Services should be rigidly supported via steel angles, hangars or channels, not			
Service Supp	on Requirem		further than 400 mm from the surface of the sealing system on both faces.			

Page 13 of 37 Signed E/055

ful ligg-

20<sup>th</sup> November 2006 Issued: 5<sup>th</sup> September 2017 1<sup>st</sup> May 2022 Revised: Valid to:





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Walls

Product Name	e:		Silverflame Batts & Coating/Stops	eal Batts & Co	ating (with Pyrod	coustic Sealant)
Coating / DFT	•		Silverflame or Stopseal Coating/1		• • •	
Density:			140 kg/m <sup>3</sup> minimum			
Barrier	Max Opening (mm)		Service	Pipe Bloc EL Ref	Integrity	Insulation
		mm thi	be 40mm Ø, 1.9mm wall thickness. 25 ck Kingspan Kooltherm FM insulation (C/S)	3 x 2mm thickness	120	90
			ipe 40mm Ø, 3mm wall thickness. 15 ck Kingspan Kooltherm FM insulation (C/S)	3 x 2mm thickness	120	120
	4000 hish		ipe 110mm Ø, 4.2mm wall thickness. nm thick Kingspan Kooltherm FM insulation (C/S)	5 x 2mm thickness	120	90
Double layer (50 & 60 mm)	1200 high by 730 wide	20 ו	ipe 110mm Ø, 6.6mm wall thickness. nm thick Kingspan Kooltherm FM insulation (C/S)	5 x 2mm thickness	120	
		mm th	be 40mm Ø, 1.9mm wall thickness. 32 ick Armacell Armaflex Class O (C/S) Pipe 40mm Ø, 3mm wall thickness. 9	3 x 2mm thickness 3 x 2mm		90
			ick Armacell Armaflex Class O (C/S)	thickness		
		32 mm 1	ipe 110mm Ø, 4.2mm wall thickness. hick Armacell Armaflex Class O (C/S)	5 x 2mm thickness	120	120
		13 mm 1	ipe 110mm Ø, 6.6mm wall thickness. hick Armacell Armaflex Class O (C/S)	5 x 2mm thickness	120	90
PipeBloc EL inst	alled both side	es of the St				
Aperture Sepa	aration:		Multiple apertures must be sepa concrete/masonry constructions.	-	nimum of 200 r	nm in drywalls and
Walls			The walls shall be a minimum of 100 mm thick. All concrete, masonry or drywalls shall have at least the same fire rating as that required for the barrier.			
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant			
Service Coat-	Back :		N/A		U Value:	Not known
Service Support Requirements:			Services should be rigidly support further than 400 mm from the surf			

Page 14 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

#### Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Walls

Product	Name:		Silverflame Batts & Coating/Stopseal Batts & Coat	ting (with Pyroco	ustic Sealant)		
Coating	/ DFT:		Silverflame or Stopseal Coating/1mm thick				
Density:			140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service	Integrity	Insulation		
Single			<sup>1</sup> Electrical cables upto 80mm Ø				
layer	layer 1200 Patress high x Both 750 wide (50 &		<sup>1</sup> Cable Trays and Ladders				
		<sup>1</sup> 100 mm c	liameter bundle telecommunication cable type "F"	100	120		
		<sup>1</sup> Uı	nsheathed electrical cables up to 24mm Ø	120			
		1	Steel or Copper Conduits up to 16mm Ø				
60 mm)			<sup>1</sup> Plastic conduits up to 16mm Ø				
<sup>1</sup> Cables a	and cable tra	ys wrapped v	with a single layer of 40mm thick, 40kg/m3 Stonewo	ol (L/I 300mm)			
	n aperture:		Multiple apertures must be separated by a minimum of 200 mm in drywalls and in concrete/masonry constructions.				
Walls			The walls shall be a minimum of 75 mm thick. All concrete, masonry or drywalls shall have at least the same fire rating as that required for the barrier.				
Applicat	ion Techniq	ue:	Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres				
Service	Coat-Back :		Not required	U Value: N	lot known		
Service S			Services should be rigidly supported via steel angles, hangars or channels, not				
Requirer	nents:		further than 400 mm from the surface of the sealing	ig system on both	n faces.		

Page 15 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product	Name:		Silverflame Batts & Coating/Stopseal Batts & Coat	ing (with Pyrocou	stic Sealant)	
Coating	/ DFT:		Silverflame or Stopseal Coating/1mm thick			
Density:			140 kg/m <sup>3</sup> minimum			
Barrier	Max Opening (mm)		Service	Integrity	Insulation	
			Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall ess. 13-25mm thick K Flex ST Insulation (C/S)	120	60	
Single layer Patress Both Faces			Copper Pipe 42-159mm Ø, 1.2 – 14.2mm wall ness. 25mm thick K Flex ST insulation (C/S)	120	90	
	1200 high x	2	copper Pipe 42mm Ø, 1 – 14.2mm wall thickness. 5-13mm thick K Flex ST insulation (C/S)	120	120	
	750 wide	thickness. 2	Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall 25 -40mm thick Kingspan Kooltherm FM insulation (C/S)	120	90	
		25 -40mi	Copper Pipe 42mm Ø, 1–14.2mm wall thickness. n thick Kingspan Kooltherm FM insulation (C/S)	120	120	
(50 & 60 mm)			opper Pipe 42mm Ø, 1.2–14.2mm wall thickness. thick glassfibre insulation min. 30kg/m <sup>3</sup> (C/S)	120	90	
	600 high x 600	thickness	opper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall . 25mm thick foil faced glassfibre insulation min. 30kg/m <sup>3</sup> (C/S)	120	90	
	wide	thickness	or Copper Pipe 42mm Ø, 1mm – 14.2mm wall . 25mm thick foil faced glassfibre insulation min. 30kg/m <sup>3</sup> (C/S)	120	120	
<sup>1</sup> 2 x 2mm t	thick layers of	PipeBloc EL ir	stalled both sides of the substrate within the patress insta			
Maximur	n aperture:		Multiple apertures must be separated by a minim concrete/masonry constructions.	num of 200 mm in	n drywalls and in	
Walls			The walls shall be a minimum of 100 mm thick. All concrete, masonry or drywalls shall have at required for the barrier.	least the same fi	re rating as that	
Applicati	ion Techniq	ue:	Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres			
Service (	Coat-Back :				ot known	
Service S Requirer			Services should be rigidly supported via steel a further than 400 mm from the surface of the sealin			

Page 16 of 37 Signed E/055

ful ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





# Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name	9:		Silverflame Batts & Coating/Stopse	al Batts & Co	ating (with Pyroc	oustic Sealant)	
Coating / DFT	:		Silverflame or Stopseal Coating/1m	m thick		·	
Density:			140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service	Pipe Bloc PCP Ref	Integrity	Insulation	
Single layer Patress Both Faces (50 & 60 mm)	1200 high by 730 wide	PY PVC PVC PVC PVC PVC PVC PVC PVC	VC Pipe 32mm Ø, 1.8mm wall           VC Pipe 40mm Ø, 1.8mm wall           VC Pipe 50mm Ø, 1.8mm wall           C Pipe 55mm Ø, 1.8-2.3mm wall           C Pipe 63mm Ø, 2.3-3mm wall           C Pipe 63mm Ø, 3.1-4.8mm wall           C Pipe 82mm Ø, 3.1-4.8mm wall           C Pipe 90mm Ø, 4.2-7.4mm wall           Pipe 100mm Ø, 4.2-7.4mm wall           Pipe 110mm Ø, 4.2-7.4mm wall           Pipe 140mm Ø, 6.1-7.5mm wall           Pipe 160mm Ø, 6.2-9.5mm wall	32mm 40mm 50mm 55mm 63mm 75mm 82mm 90mm 100mm 100mm 110mm 125mm 140mm	120	120	
Aperture Sepa	aration:		Multiple apertures must be separated by a minimum of 200 mm in drywalls and concrete/masonry constructions. Clusters of pipes and linear separation of 0mm approved within the Batt				
Walls			The walls shall be a minimum of 100 mm thick. All concrete, masonry or drywalls shall have at least the same fire rating as that required for the barrier.				
Application Technique:			Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt				
Service Coat-	Back :		N/A		U Value:	Not known	
Service Support Requirements:			Services should be rigidly suppor further than 400 mm from the surface				

Page 17 of 37 Signed E/055

ful ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name	e:		Silverflame Batts & Coating/Stopse	al Batts & Co	ating (with Pyroc	oustic Sealant)	
Coating / DFT	:		Silverflame or Stopseal Coating/1m	m thick			
Density:			140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service	Pipe Bloc PCP Ref	Integrity	Insulation	
		F	PP Pipe 32mm Ø, 2.9mm wall	32mm			
		F	PP Pipe 40mm Ø, 2.9mm wall				
		F	PP Pipe 50mm Ø, 2.9mm wall	50mm			
		PP	Pipe 55mm Ø, 2.9-4.4mm wall	55mm			
		PP	Pipe 63mm Ø, 2.9-4.4mm wall	63mm			
Single layer	1200 high	PP	Pipe 75mm Ø, 2.8-6.7mm wall	75mm		120	
Patress Both	by 730	PP	Pipe 82mm Ø, 2.8-6.7mm wall	82mm	120		
Faces (50 &	wide	PF	Pipe 90mm Ø, 2.7-10mm wall	90mm			
60 mm)		PP	Pipe 100mm Ø, 2.7-10mm wall	100mm			
		PP	Pipe 110mm Ø, 2.7-10mm wall	110mm			
		Р	P Pipe 125mm Ø, 3.1mm wall	125mm			
		PF	Pipe 140mm Ø, 3.5-8mm wall	140mm			
		PP	Pipe 160mm Ø, 4-14.6mm wall	160mm			
Aperture Sepa	aration:		Multiple apertures must be separated by a minimum of 200 mm in drywalls and concrete/masonry constructions. Clusters of pipes and linear separation of 0mm approved within the Batt				
Walls			The walls shall be a minimum of 10 All concrete, masonry or drywalls required for the barrier.	0 mm thick. shall have a	t least the same	e fire rating as that	
Application Technique:			Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt				
Service Coat-	Back :		N/A		U Value:	Not known	
Service Support Requirements:			Services should be rigidly suppor further than 400 mm from the surface				

Page 18 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name	e:		Silverflame Batts & Coating/Stopse	eal Batts & Co	ating (with Pyrod	coustic Sealant)	
Coating / DFT	•		Silverflame or Stopseal Coating/1m	nm thick			
Density:			140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service	Pipe Bloc PCP Ref	Integrity	Insulation	
Single layer Patress Both Faces (50 & 60 mm)	1200 high by 730 wide	P P F P P P	PE Pipe 32mm Ø, 2.9mm wall           PE Pipe 40mm Ø, 2.9mm wall           PE Pipe 50mm Ø, 2.9-4.4mm wall           E Pipe 55mm Ø, 2.9-4.4mm wall           E Pipe 63mm Ø, 2.9-4.4mm wall           E Pipe 75mm Ø, 2.8-6.7mm wall           E Pipe 82mm Ø, 2.8-6.7mm wall           PE Pipe 90mm Ø, 2.7-10mm wall           E Pipe 100mm Ø, 2.7-10mm wall           E Pipe 110mm Ø, 2.7-10mm wall           E Pipe 125mm Ø, 3.1mm wall           E Pipe 140mm Ø, 3.9-5.8mm wall	32mm 40mm 50mm 55mm 63mm 75mm 82mm 90mm 100mm 110mm 125mm 140mm 160mm	120	120	
Aperture Sepa	aration:		Multiple apertures must be separated by a minimum of 200 mm in drywalls and concrete/masonry constructions. Clusters of pipes and linear separation of 0mm approved within the Batt				
Walls			The walls shall be a minimum of 100 mm thick. All concrete, masonry or drywalls shall have at least the same fire rating as that required for the barrier.				
Application Technique:			Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt				
Service Coat-	Back :		N/A		U Value:	Not known	
Service Support Requirements:			Services should be rigidly support further than 400 mm from the surfa				

Page 19 of 37 Signed E/055

ful ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





# Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Flexible and Rigid Wall Construction

Product Name	<b>e</b> :		Silverflar	me	Batts & Coating/Sto	pseal Batts & Co	ating (wi	th Pyroc	oustic	Sealant)
Coating / DFT	:		Silverflame or Stopseal Coating/1mm thick							
Density:			140 kg/m	$n^3$	minimum					
Barrier	Max Opening (mm)	Serv	/ice		Pipe Bloc PWP/EL Ref				rity	Insulation
					Intumesce	nt Thickness				
					Pipe Diameter	Intumescent Mater				
Single layer Patress Both	600 high				ø 32 mm - ø 50 mm	40 mm (W) x 2 mm		Integ	ritv an	d Insulation
	by 600	Pipe ty			ø 51 mm - ø 82 mm	40 mm (W) x 4 mm				per tables
Faces (50 &	wide	bel	ow		ø 83 mm - ø 115 mm	40 mm (W) x 6 mm		rau		
60 mm)	wide	wide			ø 116 mm - ø 160 mm	40 mm (W) x 8 mm		below		IOW
					ø 161 mm - ø 200 mm	40 mm (W) x 10 mn				
					ø 201 mm - ø 250 mm	40 mm (W) x 12 mn	n (T)			
Aperture Sepa		Multiple apertures must be separated by a minimum of 200 mm in drywalls and concrete/masonry constructions. Clusters of pipes and linear separation of 0mm approved within the Batt The walls shall be a minimum of 100 mm thick.								
Walls					e, masonry or drywarr the barrier.	alls shall have a	t least t	he same	e fire i	rating as that
Application To	rows and 50mm. E and stee	d 1 Bat el re	stallation of Stopsea fixed in minimum tw tts mechanically fixe etaining washer. Fixin WP/EL Wrap secure	o vertical edges d to substrate w ngs installed at m	. Overla rith min ( nax 300m	p of bat 6mm x 8 nm centr	ts to s 30mm es	substrate min steel screws		
Service Coat-	N/A				U Valu	e:	Not k	nown		
Service Supp			hould be rigidly sup n 400 mm from the su							

Page 20 of 37 Signed E/055

ful ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022









Page 21 of 37 Signed E/055



Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





Page 22 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Wall Construction

Product Name	ə:		Silverflame Batts & Coating/Stopseal Batts & Coating	(with Pyroco	ustic Sealant)		
Coating / DFT	:		Silverflame or Stopseal Coating/1mm thick				
Density:			140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service	Integrity	Insulation		
Single layer (50 & 60 mm)	600 high by 600	<sup>1</sup> 100 n	<sup>1</sup> Electrical cables up to 80mm Ø <sup>1</sup> Cable Trays and Ladders nm diameter bundle telecommunication cable type "F"	- 60	60		
	wide		<sup>1</sup> Unsheathed electrical cables up to 24mmØ el or Copper Pipe 108mm Ø, 1.5mm – 14.2mm Wall	60	45		
	730 high by 1100 wide		el or Copper Pipe 42mm Ø, 1.2mm – 14.2mm wall	45	45		
		Steel o	r Copper Pipe 42mm – 159mm Ø, 2mm – 14.2mm wall	45	15		
<sup>2</sup> Pipes Insulated	with 40mm thi	ck continu	ingle layer of 6mm thick FSi Thermal Defense Wrap (L/I 300m ed sustained stone wool insulation (min 140kg.m <sup>3</sup> ) errupted (300mm) stone wool insulation (min 40kg.m <sup>3</sup> )				
Aperture Sepa	aration:		Multiple apertures must be separated by a r concrete/masonry constructions.	ninimum of	200 mm in		
Walls			The walls shall be a minimum of 150 mm thick. All concrete and masonry walls shall have at least trequired for the barrier.	he same fir	e rating as that		
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant				
Service Coat-	Back :				Not known		
Service Support Requirements:			Services should be rigidly supported via steel angles further than 400 mm from the surface of the sealing sy				

Page 23 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Wall Construction

Product Name			Silverflame Batts & Coating/Stopseal Batts & Coatin	g (with Pyroc	oustic Sealant)		
Coating / DFT			Silverflame or Stopseal Coating/1mm thick				
Density:			140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service	Integrity	Insulation		
			<sup>1</sup> 500mm perforated cable tray	30	30		
	750 high		<sup>1</sup> Electrical cables up to 21mm ø				
Single layer (50 & 60 mm)	by 1100		<sup>1</sup> 1 off 'C1' Cable		45		
(,	wide		<sup>1</sup> 1 off 'C2' Cable	45	45		
			<sup>1</sup> 1 off 'C3' Cable				
<sup>1</sup> All cables coate	d with 2mm DI	T PST Co	pating 300mm along the cables both sides of the seal				
Aperture Sepa	aration:		Multiple apertures must be separated by a concrete/masonry constructions.	minimum o	of 200 mm in		
Walls			The walls shall be a minimum of 150 mm thick. All concrete and masonry walls shall have at leas required for the barrier.	t the same f	re rating as that		
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant				
Service Coat-Back :			N/A U	Value:	Not known		
Service Support Requirements:			Services should be rigidly supported via steel ang further than 400 mm from the surface of the sealing				

Page 24 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Wall Construction

Product Name	e:		Silverflame Batts & Coating/Stopseal Batts & Coating (	with Pyrocou	stic Sealant)	
Coating / DFT	:		Silverflame or Stopseal Coating/1mm thick			
Density:		1	140 kg/m <sup>3</sup> minimum	•	1	
Barrier	Max Opening (mm)		Service	Integrity	Insulation	
		Upono	r MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall			
		Uponor	MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall			
	750 high	Upond	r MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall			
Single layer (50 & 60 mm)	by 1100 wide	Uponor	MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall	45	30	
		Uponor	or MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall			
			MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wal			
<sup>1</sup> Pyropro HPE 2	0mm annulus	full 50mm o	lepth of the Stopseal Coated Batt			
Aperture Sepa	aration:		Multiple apertures must be separated by a m concrete/masonry constructions.	iinimum of	200 mm in	
Walls			The walls shall be a minimum of 150 mm thick. All concrete and masonry walls shall have at least th required for the barrier.	ne same fire	e rating as that	
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant			
Service Coat-	Back :		N/A U Va	lue: N	lot known	
Service Support Requirements:			Services should be rigidly supported via steel angles further than 400 mm from the surface of the sealing system.			

Page 25 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Wall Construction

Product Name	):		Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)				
Coating / DFT	•		Silverflame or Stopseal Coating/1mm thick				
Density:			140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service			Insulation	
Single layer (50 & 60 mm)	750 high by 1100 wide		<sup>1</sup> Service Type As Tables Below			as Tables elow	
<sup>1</sup> Pyropro HPE 20	)mm annulus f	full 50mm o	depth of the Stopseal Coated Batt				
Aperture Sepa	aration:		Multiple apertures must be separated by a minimum of 200 mm in concrete/masonry constructions.				
Walls			The walls shall be a minimum of 150 mm thick. All concrete and masonry walls shall have at least the same fire rating as that required for the barrier.				
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant				
Service Coat-	Back :		N/A U	J Value:	Not	known	
Service Support Requirements:			Services should be rigidly supported via steel and further than 400 mm from the surface of the sealing				



Page 26 of 37 Signed E/055



Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





Page 27 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Wall Construction

Product Name	):		Silverflame Batts & Coating/Stopseal Batts & Coating	(with Pyroc	oustic Sealant)	
Coating / DFT	:		Silverflame or Stopseal Coating/1mm thick			
Density:			140 kg/m <sup>3</sup> minimum			
Barrier	Max Opening (mm)		Service	Integrit	y Insulation	
			<sup>21</sup> 500mm perforated cable tray			
	750 high		<sup>21</sup> Electrical cables up to 21mm ø	120	120	
Double layer (50 & 60 mm)	by 1100		<sup>21</sup> 1 off 'C1' Cable			
	wide		<sup>21</sup> 1 off 'C2' Cable		90	
			<sup>21</sup> 1 off 'C3' Cable	120	120	
	730 high	<sup>3</sup> Ste	eel or Copper Pipe 42mm Ø, 1.2mm – 14.2mm wall	120	60	
	by 1100 wide		or Copper Pipe 42mm – 159mm Ø, 2mm – 14.2mm wal	l 120	30	
<sup>2</sup> Pyropro HPE 20	)mm annulus f	ull 50mm d	bating 300mm along the cables both sides of the seal depth of the Stopseal Coated Batt terrupted (300mm) stone wool insulation (min 40kg.m <sup>3</sup> )			
Aperture Sepa			Multiple apertures must be separated by a concrete/masonry constructions.	minimum	of 200 mm in	
Walls			The walls shall be a minimum of 150 mm thick. All concrete and masonry walls shall have at least the same fire rating as that required for the barrier.			
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant			
Service Coat-	Back :		<sup>1</sup> All cables coated with 2mm DFT PST Coating 300mm along the cables both sides of the seal	Not known		
Service Support Requirements:			Services should be rigidly supported via steel angle further than 400 mm from the surface of the sealing s			

Page 28 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022



#### Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Wall Construction

Product Name	e:		Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)				
Coating / DFT	:		Silverflame or Stopseal Coating/1mm thick				
Density:			140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service	Integrity	Insulation		
Double layer (50 & 60 mm)	750 high by 1100 wide		<sup>1</sup> Service Type As Tables Below		s as Tables Below		
<sup>1</sup> Pyropro HPE 20	Omm annulus f	ull 50mm o	depth of the Stopseal Coated Batt				
Aperture Sepa	aration:		Multiple apertures must be separated by a minimum of 200 mm in concrete/masonry constructions.				
Walls			The walls shall be a minimum of 150 mm thick. All concrete and masonry walls shall have at least the same fire rating as that required for the barrier.				
Application Technique:			Boards tightly friction fitted into the aperture at mid-de and the board to aperture junction is sealed with Silve or Pyrocoustic Sealant. Apertures for penetrating items be sealed with Silverflame or Stopseal coating or Pyroc	rflame or St are to be tig	opseal coating htly fitting and		
Service Coat-	Back :		N/A U Va	lue: N	ot known		
Service Supp	ort Requirer	nents:	Services should be rigidly supported via steel angles, hangars or channels, not further than 400 mm from the surface of the sealing system on both faces.				







Page 30 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Wall Construction

Product Name	e:		Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)				
Coating / DFT:			Silverflame or Stopseal Coating/1mm thick				
Density:		1	140 kg/m <sup>3</sup> minimum				
Barrier	Max Opening (mm)		Service	Integr	ity	Insulation	
		<sup>1</sup> Upono	onor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall				
		<sup>1</sup> Upono	MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm w	all			
	750 high	<sup>1</sup> Upono	ponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall				
Double layer (50 & 60 mm)	by 1100	<sup>1</sup> Upono	<sup>1</sup> Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall			120	
,	wide	<sup>1</sup> Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall					
		<sup>1</sup> Upor	<sup>1</sup> Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall				
<sup>1</sup> Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt							
Aperture Separation:			Multiple apertures must be separated by a minimum of 200 mm in concrete/masonry constructions.				
Walls			The walls shall be a minimum of 150 mm thick. All concrete and masonry walls shall have at least the same fire rating as that required for the barrier.				
Application Technique:			Boards tightly friction fitted into the aperture at mid-depth of the wall. Board join and the board to aperture junction is sealed with Silverflame or Stopseal coatir or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting ar be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant			seal coating	
Service Coat-Back :			N/A U Valu		Not	known	
Service Support Requirements:			Services should be rigidly supported via steel angles, hangars or channels, not further than 400 mm from the surface of the sealing system on both faces.				

Page 31 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Wall Construction

Product Name:		Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)					
Coating / DFT:		Silverflame or Stopseal Coating/1mm thick					
Density:		140 kg/m <sup>3</sup> minimum					
Barrier		Service Integrity Insulati					
		Cable Trays and Ladder	120	120			
Double layer		Cables up to 21 mm diameter	120	120			
(50 & 60 mm)		Cables 22mm – 80 mm diameter	120	90			
	100mm dia	ameter bundle telecommunication cables type F	120	120			
	Unshea	athed electrical cables up to 24mm diameter	120	120			
All services ins	ulted with FSi	i P40/40 stone wool 40mm thick (40kg/m <sup>3</sup> ) 200mm	n either side of th	ne seal			
Maximum ape	rture:	1200mm high by 730 mm. Multiple apertures must be separated by a minimum 240 mm in concrete/masonry constructions.					
Walls		The walls shall be a minimum of 100 mm thick. The minimum density for the concrete or brick of the wall is 780kg/m <sup>3</sup> and for walls made of concrete blocks is 600kg/m <sup>3</sup> . All concrete, masonry walls shall have at least the same fire rating as that required for the barrier.					
Application Technique:		<b>Concrete/masonry walls</b> : Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant and must be separated by at least 240 mm.					
Service Coat-E	Back :	Not required	U Value:	Not known			
Service Suppo	ort	Services should be rigidly supported via steel angles, hangars or channels, not					
Requirements		further than 250 mm from the surface of the seal	ing system on b	oth faces.			

Page 32 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Wall Construction

Product Name:		Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)				
Coating / DFT:		Silverflame or Stopseal Coating/1mm thick				
Density:		16 0 kg/m <sup>3</sup> minimum				
Barrier	Service Integrity Insulat					
		Cable Trays and Ladder	120	120		
Double layer		Cables up to 21 mm diameter	120	120		
(60 mm)		Cables 22mm – 80 mm diameter	120	90		
	100mm dia	ameter bundle telecommunication cables type F	120	120		
	Unshea	athed electrical cables up to 24mm diameter	120	120		
All services ins	ulted with FSi	P40/40 stone wool 40mm thick (40kg/m <sup>3</sup> ) 200mm	n either side of th	e seal		
Maximum ape	rture:	1200mm high by 730 mm. Multiple apertures must be separated by a minimum 240 mm in concrete/masonry constructions.				
Walls		The walls shall be a minimum of 100 mm thick. The minimum density for the concrete or brick of the wall is 780kg/m <sup>3</sup> and for walls made of concrete blocks is 600kg/m <sup>3</sup> . All concrete, masonry walls shall have at least the same fire rating as that required for the barrier.				
Application Technique:		<b>Concrete/masonry walls</b> : Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant and must be separated by at least 240 mm.				
Service Coat-	Back :	Not required	U Value:	Not known		
Service Suppo	ort	Services should be rigidly supported via steel angles, hangars or channels, not				
Requirements:		further than 250 mm from the surface of the sealing system on both faces.				

Page 33 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Floor Construction

Product Name	<b>e</b> :	Silverflame Batts & Coating/Stopseal Batts & C	coating (with Pyroco	ustic Sealant)		
Coating / DFT		Silverflame or Stopseal Coating/1mm thick	Silverflame or Stopseal Coating/1mm thick			
Density:		140 kg/m <sup>3</sup> minimum	140 kg/m <sup>3</sup> minimum			
Barrier	Max Opening (mm)	Service	Integrity	Insulation		
		*500mm perforated cable tray				
		*Electrical cables up to 21mm ø				
		*1 off 'C1' Cable				
		*1 off 'C2' Cable		60		
		*1 off 'C3' Cable	60			
Devible lever	1100 high	<sup>1</sup> Electrical cables upto 80mm dia	60			
Double layer (50 & 60 mm)	by 700	<sup>1</sup> Cable Trays and Ladders				
	wide	<sup>1</sup> 100 mm diameter bundle telecommunication cable type "F"				
		<sup>1</sup> Unsheathed electrical cables up to 17mm dia	-			
		<sup>1</sup> Unsheathed electrical cables 18-24mm dia	-			
		<sup>1</sup> Steel or Copper Conduits up to 16mm				
		<sup>1</sup> Plastic conduits up to 16mm	-			
		<sup>1</sup> Steel or Copper Pipe 42mm Ø, 1.2mm – 14.2mm wall		120		
		<sup>1</sup> Steel or Copper Pipe 42mm – 159mm Ø, 2mm –	120	30		
		14.2mm wall				
<sup>2</sup> Insulated with 2 <sup>3</sup> Insulated with 3	5mm thick con 0mm thick con	wrapped with a single layer of 40mm thick stonewool, min 40kg/ tinuous sustained foil faced glass wool insulation (min 30kg.m <sup>3</sup> ) tinuous sustained foil faced glass wool insulation (min 80kg.m <sup>3</sup> ) full 50mm depth of the Stopseal Coated Batt				
Aperture Sepa	aration:	Multiple apertures must be separated by constructions.	Multiple apertures must be separated by a minimum of 200 mm in floor constructions.			
Floors			The floors shall be a minimum of 150 mm thick. All concrete floors shall have at least the same fire rating as that required for the barrier.			
Application Technique:		Boards cut to and tightly friction fitted into floor. Board to aperture junction is sealed coating or Pyrocoustic Sealant. Apertures	Boards cut to and tightly friction fitted into the aperture at mid-depth of the floor. Board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be			
			tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant and must be separated by at least 200 mm.			
Service Coat-	Back :	Not required				
Service Supp	ort Requiren	Services should be rigidly supported via ste				

Page 34 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Floor Construction







## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Rigid Floor Construction

Product Name:			Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)			
Coating / DFT:			Silverflame or Stopseal Coating/1mm thick			
Density:			140 kg/m <sup>3</sup> minimum			
Barrier	Max Opening (mm)	Service Integrity Insulat				
		<sup>1</sup> Upono	<sup>1</sup> Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall			
		<sup>1</sup> Upono	<sup>1</sup> Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall			
	750 high by 1100 wide	<sup>1</sup> Upono	<sup>1</sup> Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall			
Double layer (50 & 60 mm)		<sup>1</sup> Upono	r MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm v	wall	60 60	
		<sup>1</sup> Upono	Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall			
		<sup>1</sup> Upor	<sup>1</sup> Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall			
<sup>1</sup> Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt						
Aperture Separation:			Multiple apertures must be separated by a minimum of 200 mm in floor constructions.			
Floors			The floors shall be a minimum of 150 mm thick. All concrete floors shall have at least the same fire rating as that required for the barrier.			
Application Technique:			Boards cut to and tightly friction fitted into the aperture at mid-depth of the floor. Board to aperture junction is sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant. Apertures for penetrating items are to be tightly fitting and be sealed with Silverflame or Stopseal coating or Pyrocoustic Sealant and must be separated by at least 200 mm.			
Service Coat-Back :			N/A U	Value:	Not	known
Service Support Requirements:			Services should be rigidly supported via steel angles, hangars or channels, not further than 400 mm from the surface of the sealing system on both faces.			

Page 36 of 37 Signed E/055

Pul ligg-

Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022





## Silverflame Batts & Coating/Stopseal Batts & Coating (with Pyrocoustic Sealant)

Air Permeability:	Pressure (Pa)	Positive pressure (m <sup>3</sup> /h/m <sup>2</sup> )	Negative pressure (m <sup>3</sup> /h/m <sup>2</sup>	Weather Capability:	Not evaluated by this		
EN1026	50	0.8	1.5		approval		
	100	1.4	1.8				
Acoustic Rating:	1 x 50mm thick						
BS EN ISO 10140-2:2010	R <sub>w</sub> (C;C <sub>tr</sub> ) D <sub>new</sub> (C;Ctr)		22(0;-3)dB	Movement			
			32(0;3)dB		Not evaluated by this		
	2 x 50mm thick			Capability:	approval		
R <sub>w</sub> (C;C			28(0;-3)dB				
	D <sub>new</sub> (C;Ctr)		38(0;3)dB				

#### **Further Information**

Further information regarding the details contained in this data sheet may be obtained from FSi Limited (Tel: 01530 515130).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777, website: www.warringtonfire.net)

Page 37 of 37 Signed E/055



Issued: 20<sup>th</sup> November 2006 Revised: 5<sup>th</sup> September 2017 Valid to: 1<sup>st</sup> May 2022