

Technical Data Sheet

Astro Batt

Revision 15 - 9th February 2021



ETA - 20-1091		
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General Product Description

Astro Batt is Coated mineral wool board used to reinstate the fire resistance performance of wall constructions where they have been provided with apertures for the penetration of single or multiple services.

Astro Batt is supplied coated on both faces. The Board is then cut and friction fit into the aperture, prior to being inserted into the aperture in the wall

Astro Batts are 50mm thick and supplied in overall dimensions 1200mm x 600mm with a density of 140kg/m³

Astro Intu Mastic is required to seal all joints and junctions during the sealing process. Astro Intu Mastic is subject to a separate ETA referenced ETA 20/1088 & 20/1089

Astro HPE Sealant is required to seal around specific services. Astro HPE Sealant is subject to a separate ETA referenced ETA 20/1090

Internal use - ETAG 026-3 (used as European Assessment Document EAD) Type Z₁

Specification of the intended use in accordance with the relevant EAD

Intended Use

The intended use of Astro Batt is to reinstate the fire resistance performance of rigid and flexible wall constructions where they are penetrated by various cables and metallic pipes

The intended use of Astro Batt is Coated mineral wool board used to reinstate the fire resistance performance of wall & floor construction where they have been provided for blank seals

The specific elements of construction that the system Astro Batt may be used to provide a penetration seal in, are as follows:

Rigid walls

The wall must have a minimum thickness of 150mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650kg/m³

Rigid walls

The wall must have a minimum thickness of 100mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650kg/m³

Rigid floors

The floor must have a minimum thickness of 150mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650kg/m³

Flexible walls

The wall must have a minimum thickness of 100mm and comprise timber or steel studs lined on both faces with minimum 2 layers of 12.5mm thick, 'Type F' Gypsum boards according to EN 520. In timber stud walls, no part of the penetration shall be closer than 100mm to a stud, the cavity must be closed between the penetration seal and the stud and minimum 100mm of insulation of class A1 or A2 according to EN 13501-1, is provided within the cavity between the penetration seal and the stud.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

The Astro Batt may be used to provide a penetration seal with pipes and cables.

The total amount of cross sections of services (including insulation) should not exceed 60% of penetration area.

The system Astro Coating may be used to seal apertures in the separating element up to 730mm wide by 1200mm high or 600mm x 600mm dependent on the configuration. The minimum permitted separation between adjacent seals/apertures is 200mm.

Pipes must be installed singular, cables require no minimum separation.

****Where relevant Non combustible fixings are to be used in line with test data to secure the product to the relevant substrate. Please contact us for further details.****

Services in walls shall be supported at maximum 250mm from the face of the separating element

The provisions made in the European Technical Assessment are based on an assumed working life of the Astro Batt of 10 years, provided that the conditions laid down in the product data sheet for the packaging/ transport/ storage/ installation/ use/ repair are met. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works

Use Category

Type Z1: Intended for use in internal conditions with humidity equal to or higher than 85% RH excluding temperatures below 0°C, without exposure to rain or UV

The seals may only be penetrated by the services described in this TDS; other parts or support constructions must not penetrate the seal.

The service support construction must be fixed to the building element containing the penetration seal or a suitable adjacent building element, in such a manner that in the case of fire, no additional load is imposed on the seal. Furthermore it is assumed that the unexposed face support is maintained for the required period of fire resistance

Certain pipe configuration should be insulated with minimum 300mm long, 6mm thick Thermal Defence Wrap

Pipes must be perpendicular to seal surface

It is assumed that compressed air systems are switched off by other means in the case of fire

The function of the pipe seal in case of pneumatic dispatch systems, pressurised air systems etc. Is guaranteed only when the systems are shut off in case of fire.

The assessment does not cover the avoidance of destruction of the seal or of the abutting building element(s) by forces caused by temperature changes in case of fire. This has to be considered when designing the piping system.

The approval does not address any risks associated with leakage of dangerous liquids or gases caused by failure of pipe(s) in case of fire

The durability assessment does not take account of the possible effect of substances permeating through the pipe on the penetration seal

Air permeability

System Astro Batt has been tested in accordance with BS EN 1214--1 to provide the following results:

Product tested		Astro Batt		
	Results under positive chamber pressure		Results under negative chamber pressure	
Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ / M ² /h)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)
50	0.6	0.8	1.1	1.5
100	1.0	1.4	1.3	1.8
150	2.8	3.9	1.5	2.1
200	3.8	5.3	1.9	2.6
250	4.5	6.3	2.0	2.8
300	5.0	6.9	2.4	3.3
450	5.1	7.1	1.9	2.6
600	6.7	9.3	2.2	3.1

Dangerous substances

The applicant is required to submit a written declaration stating whether or not fire stopping and fire sealing product contains dangerous substances according to European and national regulations, when and where relevant in the Member States of destination, and shall list these substances.

Astroflame Fireseal Limited have presented a declaration that all dangerous chemical substances $\geq 1.0\%$ w/w as well as all toxic, carcinogenic, toxic for reproduction and mutagenic chemical substances $\geq 0.1\%$ w/w (Status: 29. adaption - 2004/73/EG - of the EU directive 67/155/EEC - classification, packaging and labelling of dangerous substances) are stated in the Astro Batt and Coating material safety data sheets (according to 91/155/EEC including amendments) and have been considered for the classification of the products according to the directive 1999/45/EG (classification of preparations, including amendments).

All dangerous chemical substances are below the classification limits of 67/548/EEC

Durability and serviceability

Astro Batt has been tested in accordance with EOTA Technical Report - TR024 - Edition November 2006, and the results of the tests have demonstrated suitability for penetration seals intended for use in internal conditions with humidity equal to or higher than 85% RH excluding temperatures below 0°C, without exposure to rain or UV

Assessment and verification of Constancy of Performance (Here in after AVCP) system applied, with references to its legal base.

According to the decision 1999/454/EC of the European Commission the system of assessment and verification of constancy of performance (see Annex V to the Regulation (EU) No 305/2011) given in the following table apply:

Products	Intended uses	Level or Class	System
Fire stopping and fire sealing products	For fire compartmentation and / or fire protection or fire performance	Any	System 1

Resistance to Fire Classification of Astro Batt

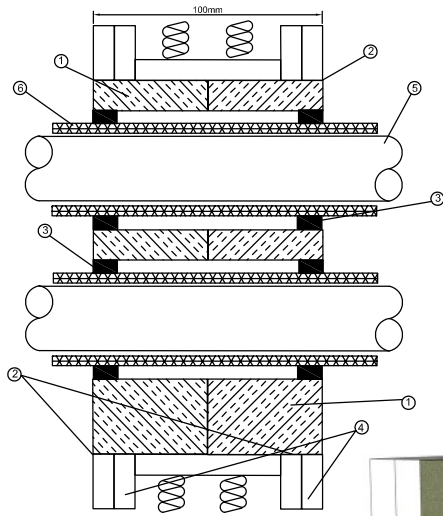
Flexible and Rigid wall constructions according to ETA 20-1091 with wall thickness of minimum 100mm

Penetration seal with Astro Batt installed centrally within the wall

Service(s)	Insulation	Seal	Classification
Mild Steel or Copper			
40mm diameter and 1.5 - 14.2mm wall	20mm thick foil faced glass wool insulation (min 80kg/m ³)	15mm deep x 15mm wide annulus Astro graphite HPE Sealant to both faces seal	E 90 U/C EI 60 U/C
40 - 159mm diameter and 2.3 - 14.2mm wall	30mm thick foil faced glass wool insulation (min 80kg/m ³)		EI 60 U/C

Service(s)	Insulation	Seal	Classification
Mild Steel			
40mm diameter and 1.7 - 14.2mm wall	20mm thick foil faced glass wool insulation (min 80kg/m ³)	15mm deep x 15mm wide annulus Astro graphite HPE Sealant to both faces seal	E 90 U/C EI 60 U/C
40 - 150mm diameter and 2.3 - 14.2mm wall	30mm thick foil faced glass wool insulation (min 80kg/m ³)		EI 60 U/C

DESIGN TO ETA 20-1091 & CE 2531-CPR-CXO10296 ASTRO BATT IN A FIRE RESISTANT MULTI METALLIC PIPE PENETRATION SEAL THROUGH FLEXIBLE WALL



① Astro Batt 50mm Thickness - 140kg/m³ Density

② Astro Intu Mastic

⑤ Multi Metallic Pipes

⑥ Insulation Material

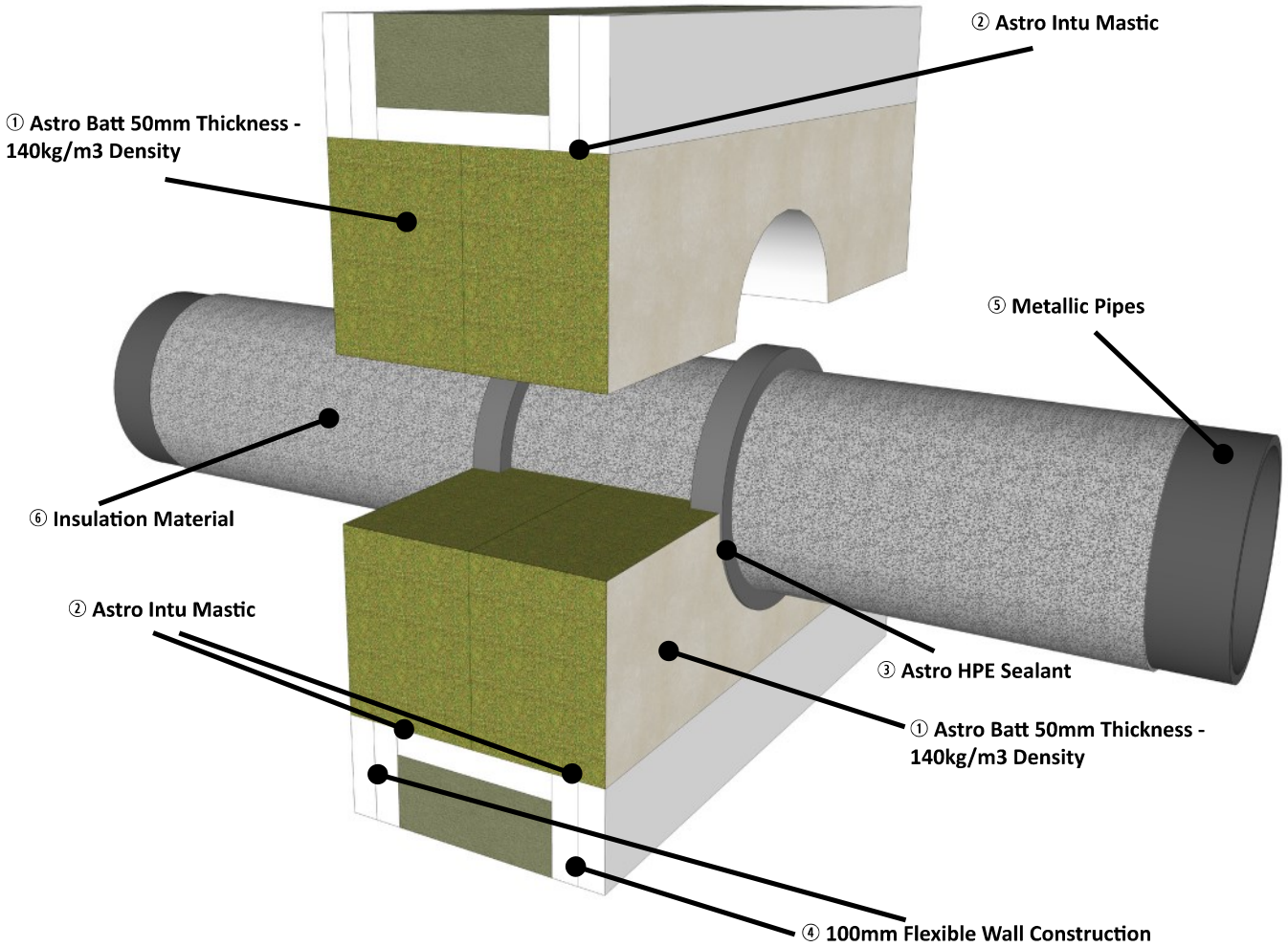
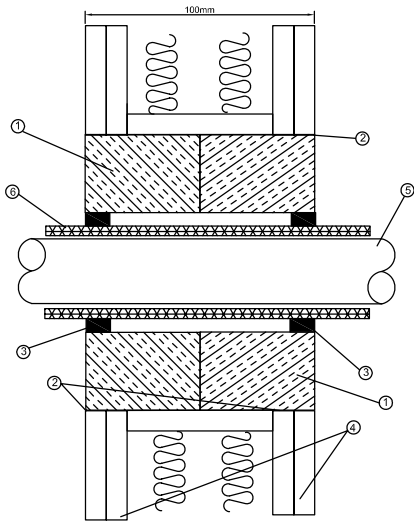
③ Astro HPE Sealant

② Astro Intu Mastic

① Astro Batt 50mm Thickness - 140kg/m³ Density

④ 100mm Flexible Wall Construction

DESIGN TO ETA 20-1091 & CE 2531-CPR-CXO10296 ASTRO BATT IN A FIRE RESISTANT METALLIC PIPE PENETRATION SEAL THROUGH FLEXIBLE WALL

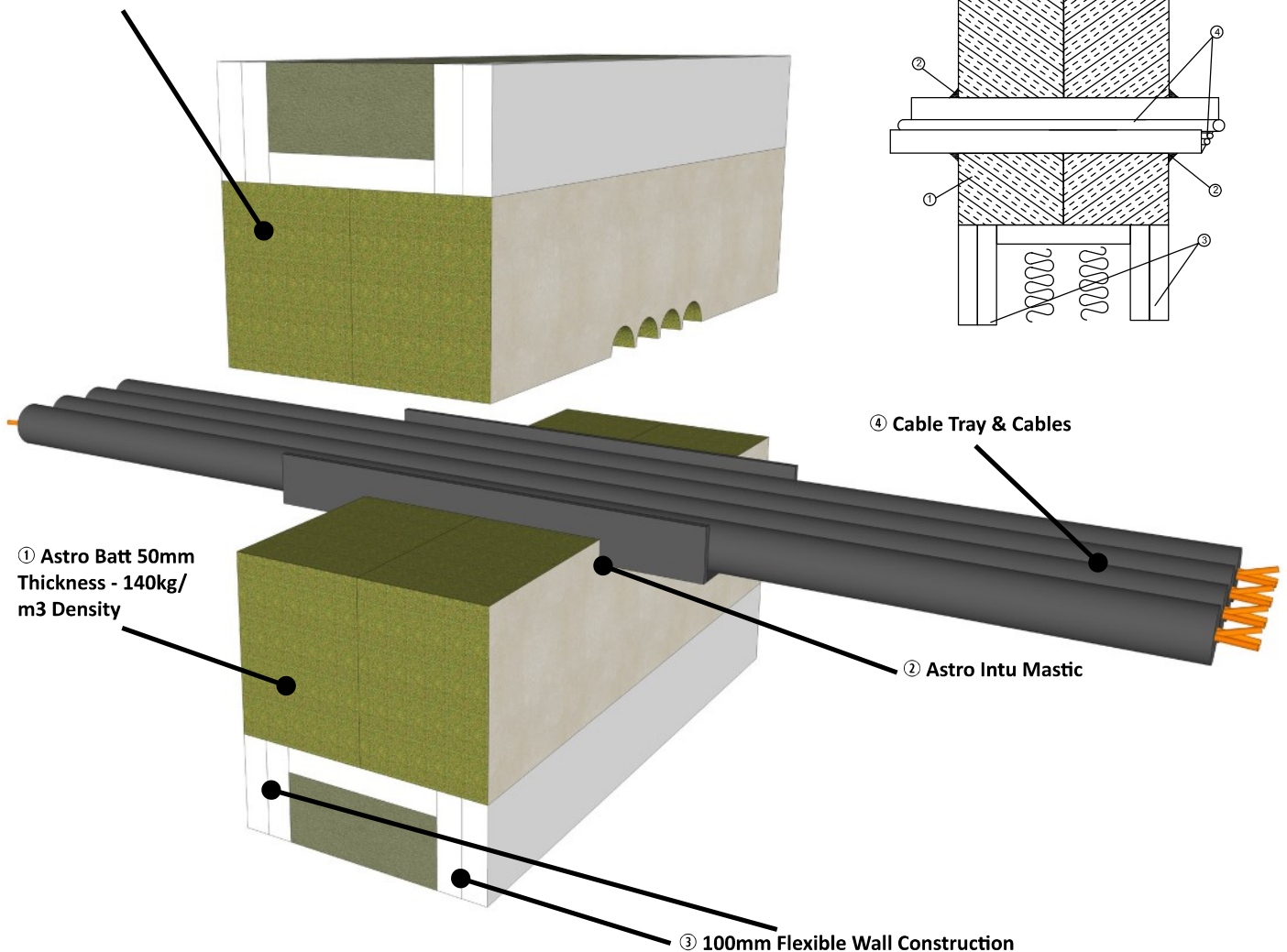
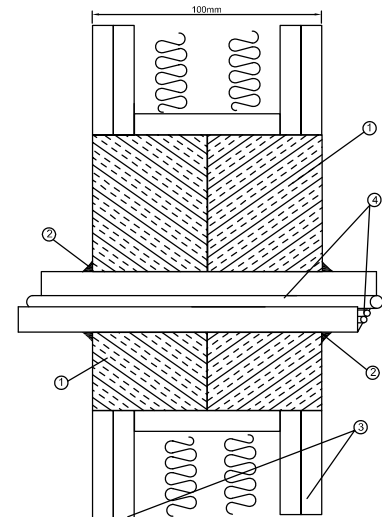


**Flexible and Rigid wall constructions according to ETA 20-1091 with wall thickness of minimum 100mm
Penetration seal with Astro Batt installed centrally within the wall**

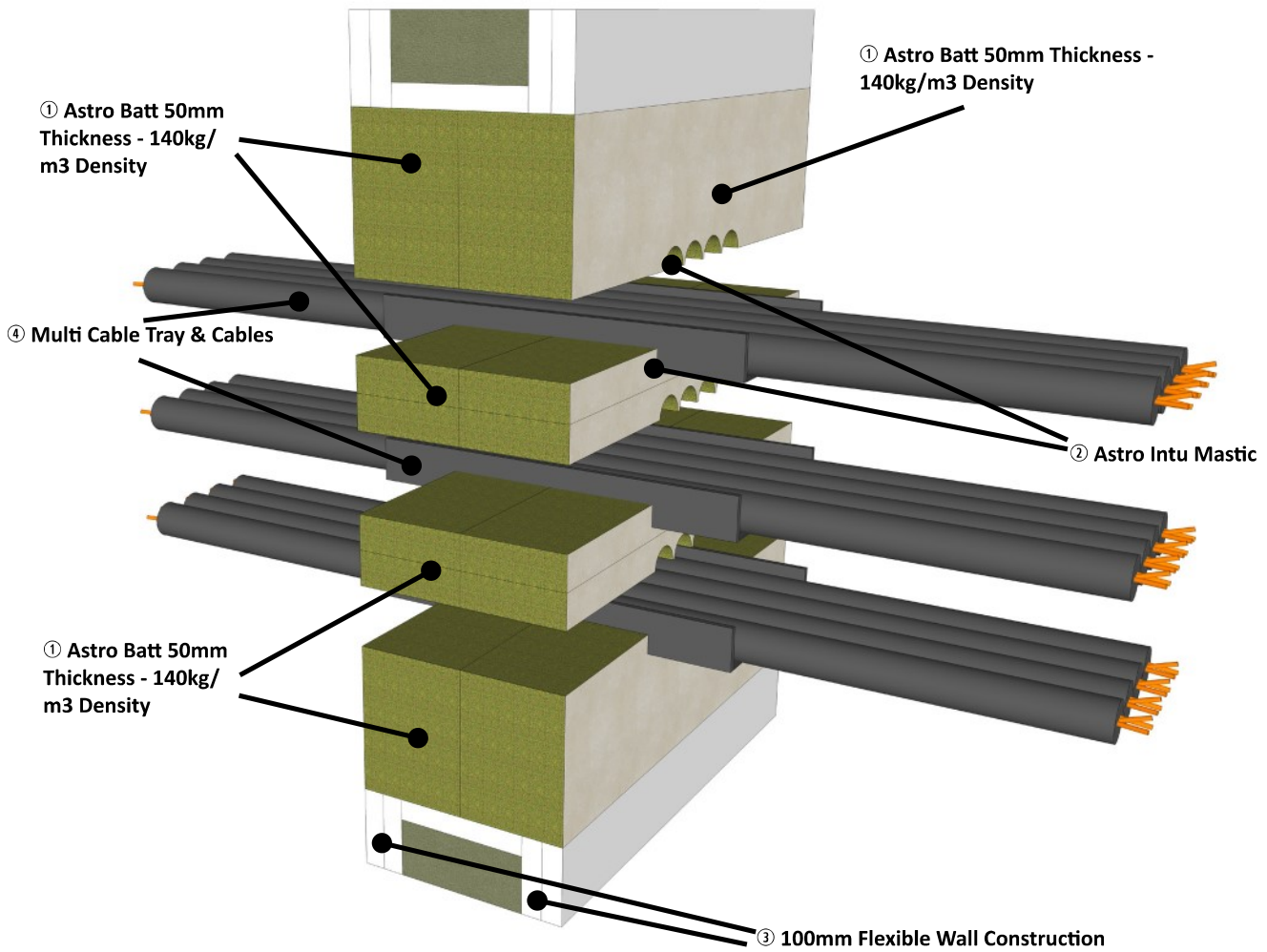
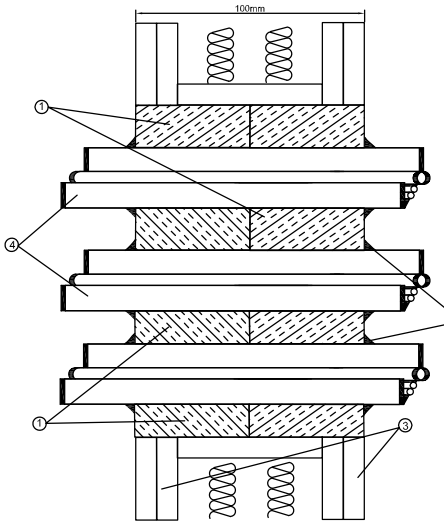
Service(s)	Classification
Electrical cables up to 21mm dia	EI 60
Electrical cables 22mm to 80mm dia	E 60, EI 45
Cable Trays and Ladders	EI 60
100mm diameter bundle telecommunication cable type "F"	EI 60
Unsheathed electrical cables up to 17mm dia	E 60, EI 30
Unsheathed electrical cables 18 - 24mm dia	E 60, EI 15
Steel or Copper Conduits up to 16mm	E 60, EI 15
Plastic conduits up to 16mm	EI 60

DESIGN TO ETA 20-1091 & CE 2531-CPR-CXO10296 ASTRO BATT IN A FIRE RESISTANT CABLE TRAY & CABLE PENETRATION SEAL THROUGH FLEXIBLE WALL

① Astro Batt 50mm Thickness - 140kg/m³ Density



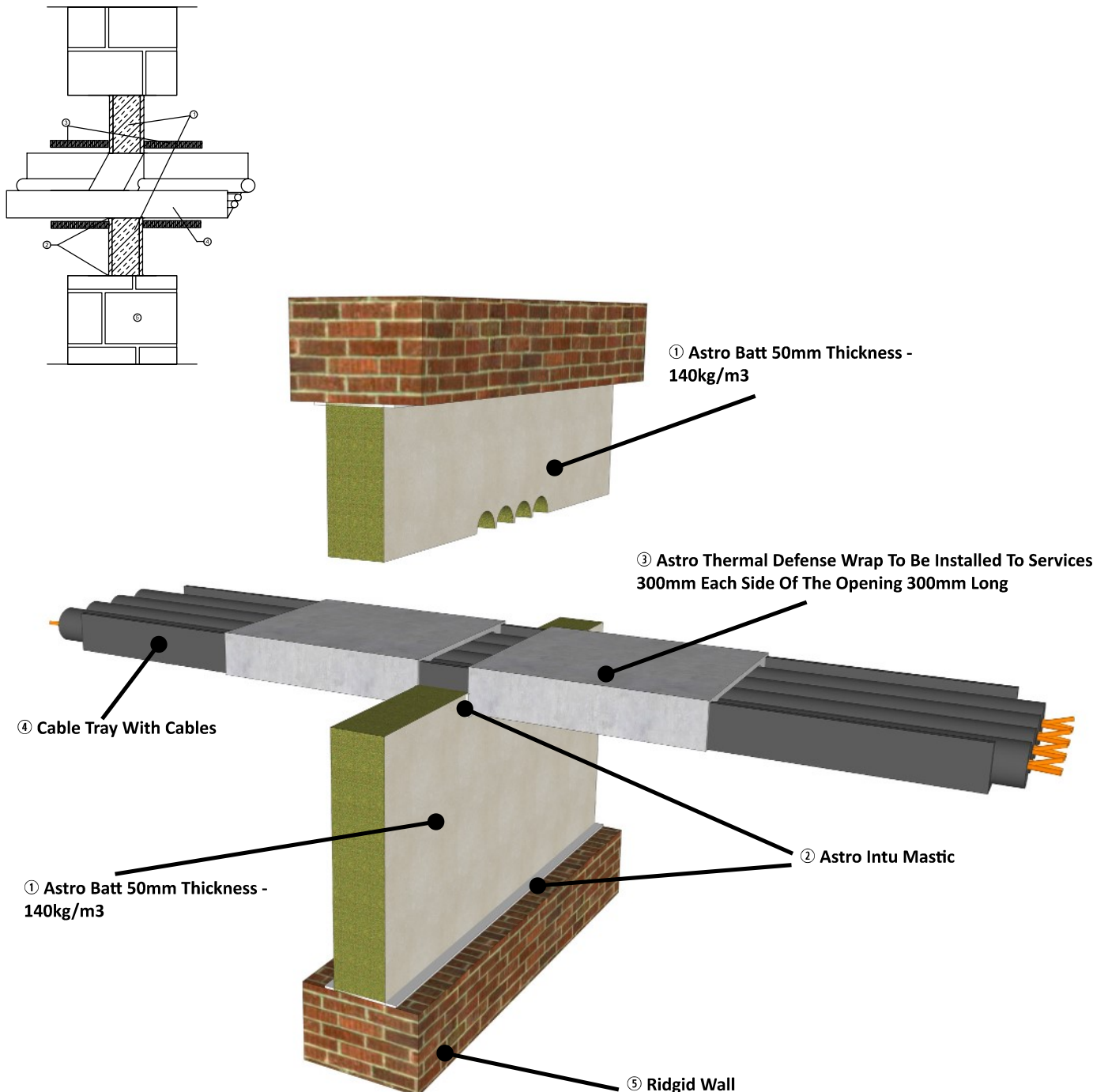
DESIGN TO ETA 20-1091 & CE 2531-CPR-CXO10296 ASTRO BATT IN A FIRE RESISTANT MULTI CABLE TRAY & CABLE PENETRATION SEAL THROUGH FLEXIBLE WALL



**Rigid wall constructions according to ETA 20-1091 with wall thickness of minimum 150mm
Penetration seal with Astro Batt installed centrally within the wall**

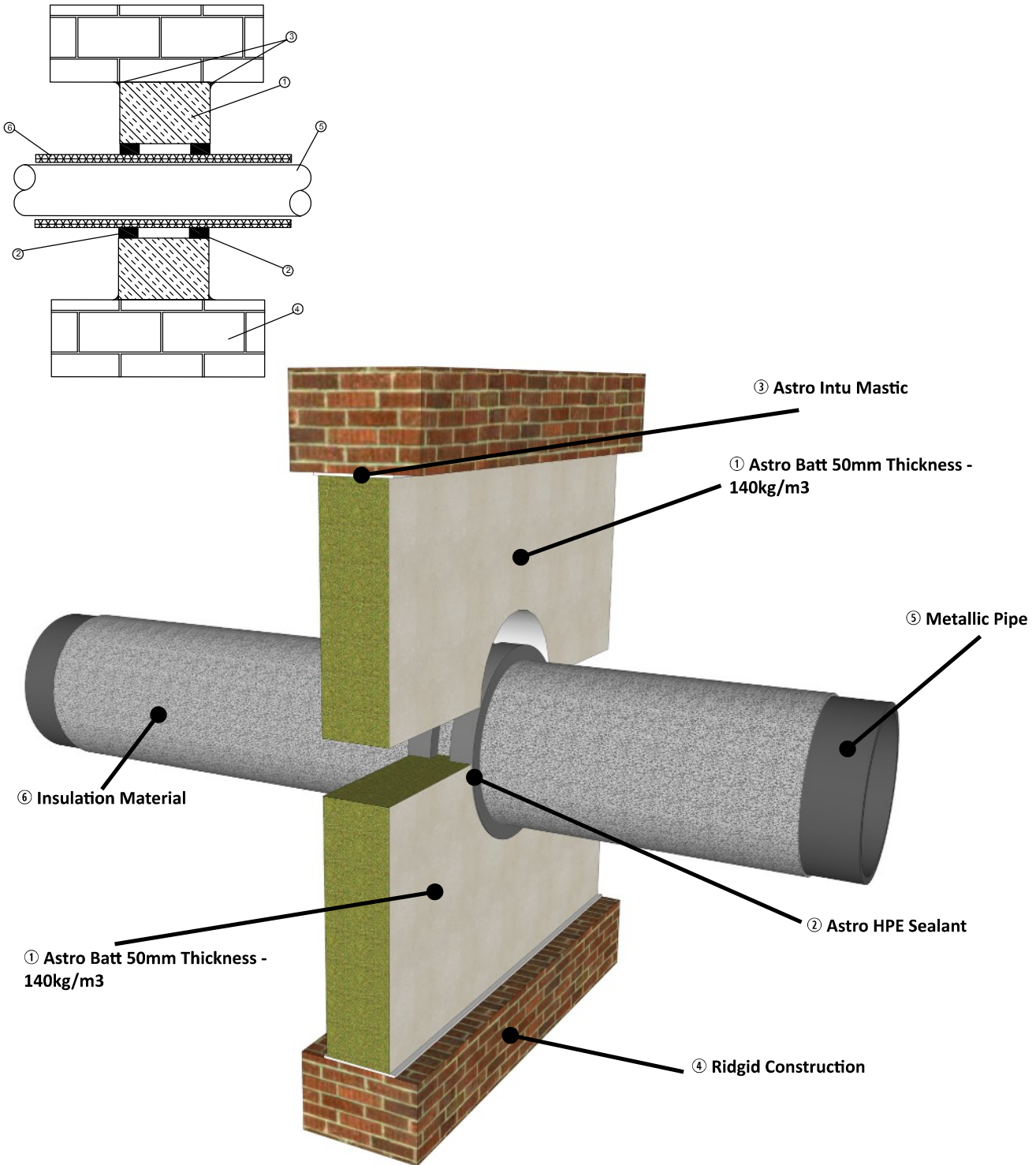
Service(s)	Classification
Electrical cables up to 80mm dia	EI 60
Cable Trays and Ladders	EI 60
100mm diameter bundle telecommunication cable type "F"	EI 60
Unsheathed electrical cables up to 24mm dia	EI 60

DESIGN TO ETA 20-1091 & CE 2531-CPR-CXO10296 ASTRO BATT IN A FIRE RESISTANT CABLE TRAY & CABLE PENETRATION SEAL THROUGH RIGID WALL



DET 2-0119 Date: 20/05/2014

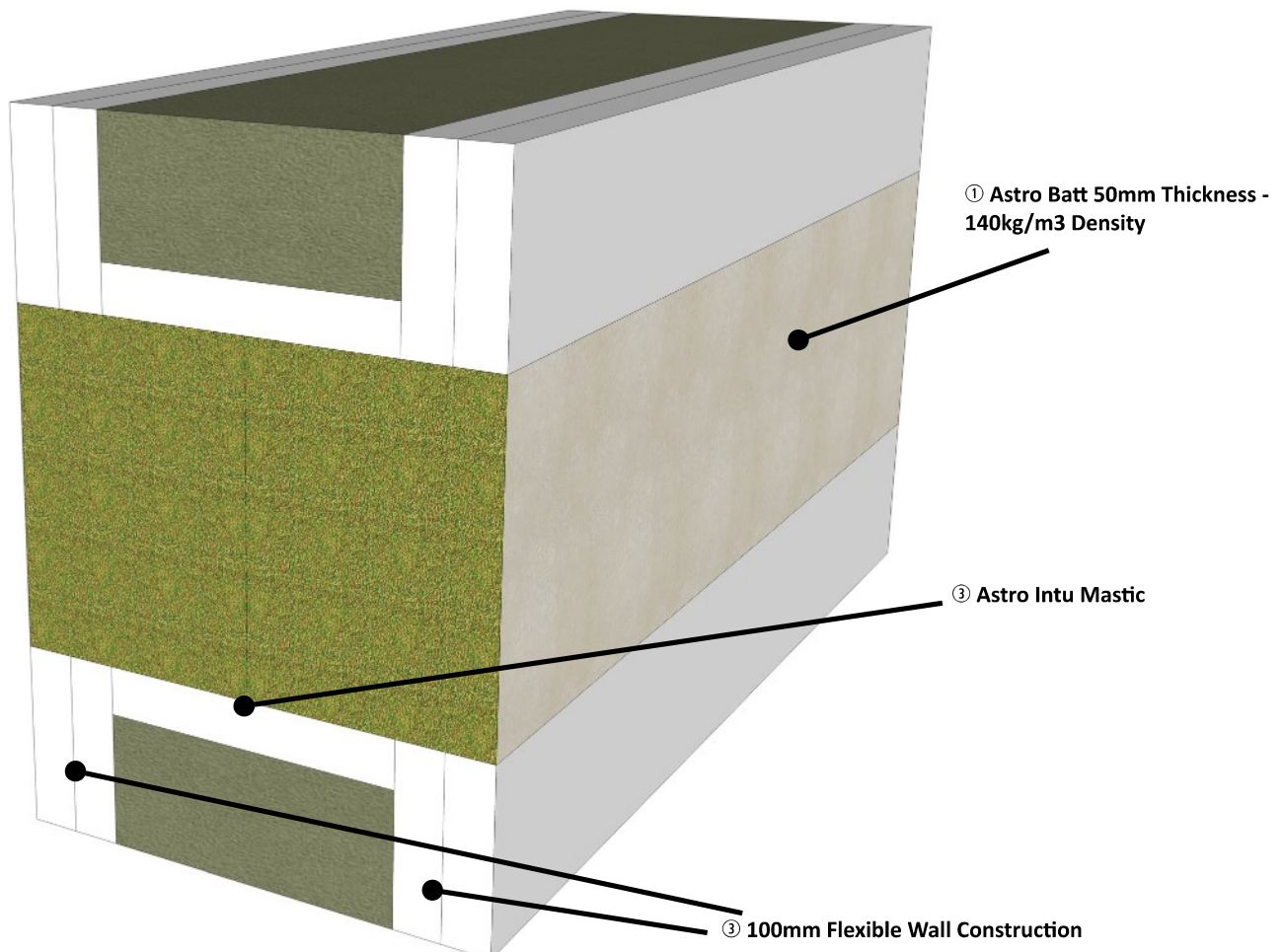
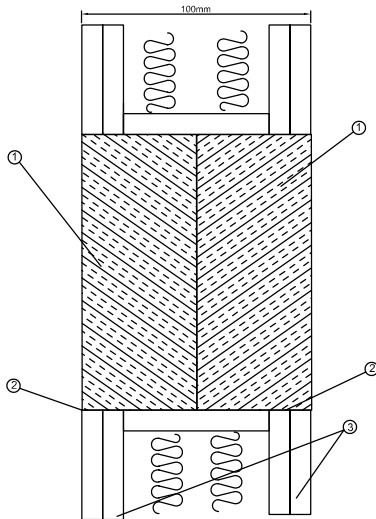
DESIGN TO ETA 20-1091 & CE 2531-CPR-CXO10296 ASTRO BATT IN A FIRE RESISTANT METALLIC PIPE PENETRATION SEAL THROUGH RIGID WALL



Flexible wall construction according to classification report 335738, penetration seal with Astro Batt installed for blank opening with wall thickness of minimum 100mm

Service(s)	Classification
Integrity Performance	163 minutes
Insulation Performance	161 minutes

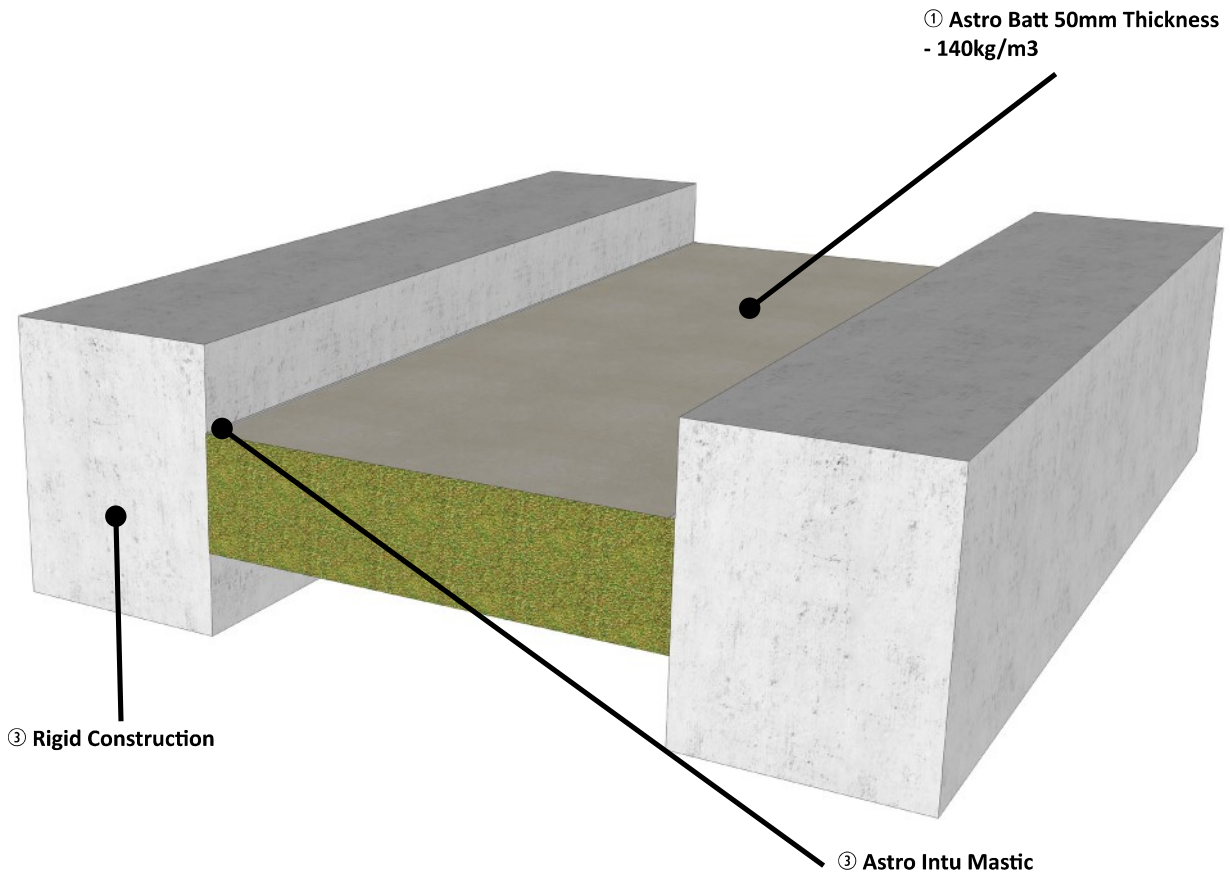
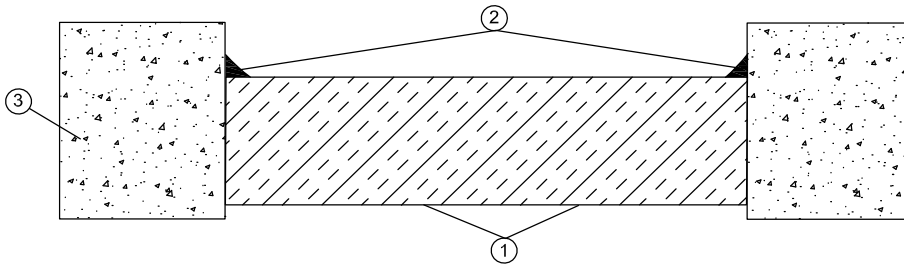
DESIGN TO ETA 20-1091 & CE 2531-CPR-CXO10296 ASTRO BATT IN A FIRE RESISTANT BLANK SEAL THROUGH FLEXIBLE WALL



Rigid floor construction according to classification report 335738, penetration seal with Astro Batt installed for blank opening with floor thickness of minimum 150mm

Specimen	Integrity (minutes)			Insulation (minutes)
	79	79	79	
A	79	79	79	63

DESIGN TO ETA 20-1091 & CE 2531-CPR-CXO10296 ASTRO BATT IN A FIRE RESISTANT BLANK SEAL THROUGH RIGID FLOOR



Durability and Serviceability

Requirement - The Principle of the durability tests is to select suitable physico-chemical or technological properties of the product and to ETAG No 026 check whether these properties have changed during exposure of the product to defined exposure conditions. The product Part 2: Clause shall be tested according to the following procedures:
2.4.12

Property	Test Method
Appearance	EOTA ETAG No 026: Part2: Clause B.12
Flexibility	ASTM D522
LOI	ISO 4589-2: 1996

The following evidence presented in MECH/W00202RL001 has been provided in relation to this requirement:

Appearance

Specimen	Exposure	Before	After
1	Durability Z1	Off -white, smooth surface, maintained shape	No change
4	23oC 50% RH	Off -white, smooth surface, maintained shape	No change

Flexibility

Anvil diameter	Specimen	Control	Z1 Durability
1" 25mm	1	PASS	PASS
5/8" 16mm	2	PASS	PASS
3/8" 9.5mm	3	PASS	PASS
1/4" 6.4mm	4	PASS	PASS
1/8" 3.2mm	5	PASS	PASS

LOI

	Oxygen index
Control	26.7
Z1 Durability	27.5

Conclusions

The data discussed above satisfies the general aspects relating to fitness for use: Durability and serviceability: 12 of EOTA ETAG No 026: Part 2, for Type Z1 environmental conditions: Products for penetration seals intended for uses at internal conditions with high humidity, excluding temperatures below 0°C.

Identification of the product

Requirement - The Intertek MSG report No. MECH/W002020RL001 detail the following tests, as detailed in ETAG No 026: Part 2, utilised to ETAG No 026: identify Fire Coating:
Part 2: Clause 5

Product characteristic	Verification Method
TGA	EOTA ETAG No 026: Part 3: Clause B.2
Viscosity of Liquid Materials	ISO 3219
Density of Liquid Materials	ISO 2811-1
LOI	ISO 4589-2: 1996
Flexibility	ASTM D522

Certificate No.: 2531-CPR-CXO10296



CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

Astro Batt and Coating

Scope: Fire Stopping and Sealing Product: Penetration Seals

Placed on the market under the name or trade mark of:

Astroflame Fireseals Ltd
Intumescent House, Unit 8 The IO Centre
Stephenson Road
Segensworth, Fareham
Hampshire PO15 5RU
United Kingdom

and produced in the manufacturing plant:

CPA50052

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the


ETA-20/1091 issued 2020-12-09 on the basis of EAD 350454-00-1104

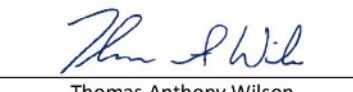
under system 1 for the performance set out in the ETA are applied and that the factory production control conducted by the Manufacturer is assessed to ensure the
Constancy of performance of the construction product.

Date of issue: 2022-01-20.

This certificate will remain valid as long as neither the ETA, the EAD, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

This certificate was first issued 2022-01-20.


Lene Skovbjerg
Responsible for evaluation


Thomas Anthony Wilson
Responsible for certification decision

The certificate shall be reproduced in extenso
– extracts only with written permission from DBI Certification A/S.



DBI Certification A/S
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www.dbicertification.dk

Version 2021-11-04
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Acoustic Isolation

BM TRADA

Laboratory measurement to
BS EN ISO 10140-2 - Airborne Sound Insulation of
Building Elements



Test Specimen Name: Astro Batt	Ref. No.: MTZ/F12009/01/H/Rev1/AR1p020
Client: Astroflame (Fireseals) Limited	Date of Test: 04/04/2012
Test Specimen Installed By: BM TRADA	Source Room Volume: 82.00 m ³
Area of Specimen (S): 1.00 m ²	Receive Room Volume: 70.00 m ³
Temperature in Test Rooms: 19.2 °C	
Static Pressure: 10006.0 Pa	
Humidity in Test Rooms: 44.0 %	
Test Specimen Description: 500mm x 2000mm aperture filled with single layer Astro Batt with 80kg/m ³ . See Appendix 3 for specimen details.	

f, Hz	R, dB
50*	28.5
63*	24.8
80*	24.0
100	29.9
125	35.9
160	39.2
200	43.2
250	49.0
315	54.1
400	56.3
500	58.5
600	61.0
800	61.1
1000	58.5
1250	60.1
1600	64.4
2000	64.8
2500	64.4
3150	≥ 66.0
4000	≥ 65.3
5000	≥ 63.8
AAD	-25.2

Frequency range for rating, in accordance with ISO 717-1



— Rating Curve (ISO 717-1) — Sound Reduction Index, R, in dB

$D_{n,e,w} = 57$ dB
 $D_{n,e,w}+C = 55$ dB
 $D_{n,e,w}+C_{tr} = 48$ dB

$C_{(50-3150)} = -5$ dB $C_{tr(50-3150)} = -15$ dB
 $C_{(50-5000)} = -4$ dB $C_{tr(50-5000)} = -15$ dB
 $C_{(100-5000)} = -2$ dB $C_{tr(100-5000)} = -9$ dB

Martin Durham
Technical Officer

* Indicates that the frequency is outside of our UKAS accreditation and is for information only

The legal validity of this report can only be claimed on presentation of the complete report

Report for: Astroflame (Fireseals) Limited
Report Ref: Chilt/Z: 12009/01/H/Rev1/AR1

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Acoustic Isolation

BM TRADA

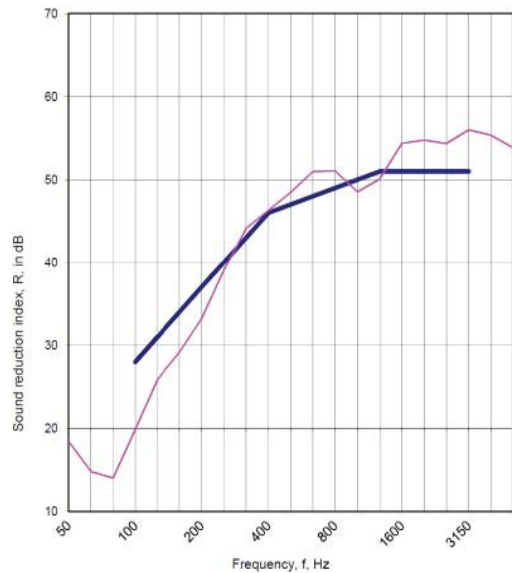
Laboratory measurement to
BS EN ISO 10140-2 - Airborne Sound Insulation of Building Elements



Test Specimen Name: Astro Batt	Ref. No.: MTZ/F12009/01/H/Rev1/AR1p020
Client: Astroflame (Fireseals) Limited	Date of Test: 04/04/2012
Test Specimen Installed By: BM TRADA	
Area of Specimen (S): 1.00 m ²	Source Room Volume: 82.00 m ³
Temperature in Test Rooms: 19.2 °C	Receive Room Volume: 70.00 m ³
Static Pressure: 10006.0 Pa	
Humidity in Test Rooms: 44.0 %	
Test Specimen Description: 500mm x 2000mm aperture filled with single layer Astro Batt with 80kg/m ³ . See Appendix 3 for specimen details.	

f, Hz	R, dB
50*	18.5
63*	14.8
80*	14.0
100	19.9
125	25.9
160	29.2
200	33.2
250	39.0
315	44.1
400	46.3
500	48.5
600	51.0
800	51.1
1000	48.5
1250	50.1
1600	54.4
2000	54.8
2500	54.4
3150	≥ 56.0
4000	≥ 55.3
5000	≥ 53.8
AAD	-25.2

Frequency range for rating in accordance with ISO 717-1



— Rating Curve (ISO 717-1) — Sound Reduction Index, R, in dB

R_w = 47 dB	C _w (50 - 3150) = -5 dB	C _w (100 - 5000) = -2 dB	C _w (50 - 3150) = -15 dB
R_w+C = 45 dB	C _w (50 - 5000) = -4 dB	C _w (100 - 5000) = -9 dB	C _w (50 - 5000) = -15 dB
R_w+C_{tr} = 38 dB			

Martin Durham
Technical Officer

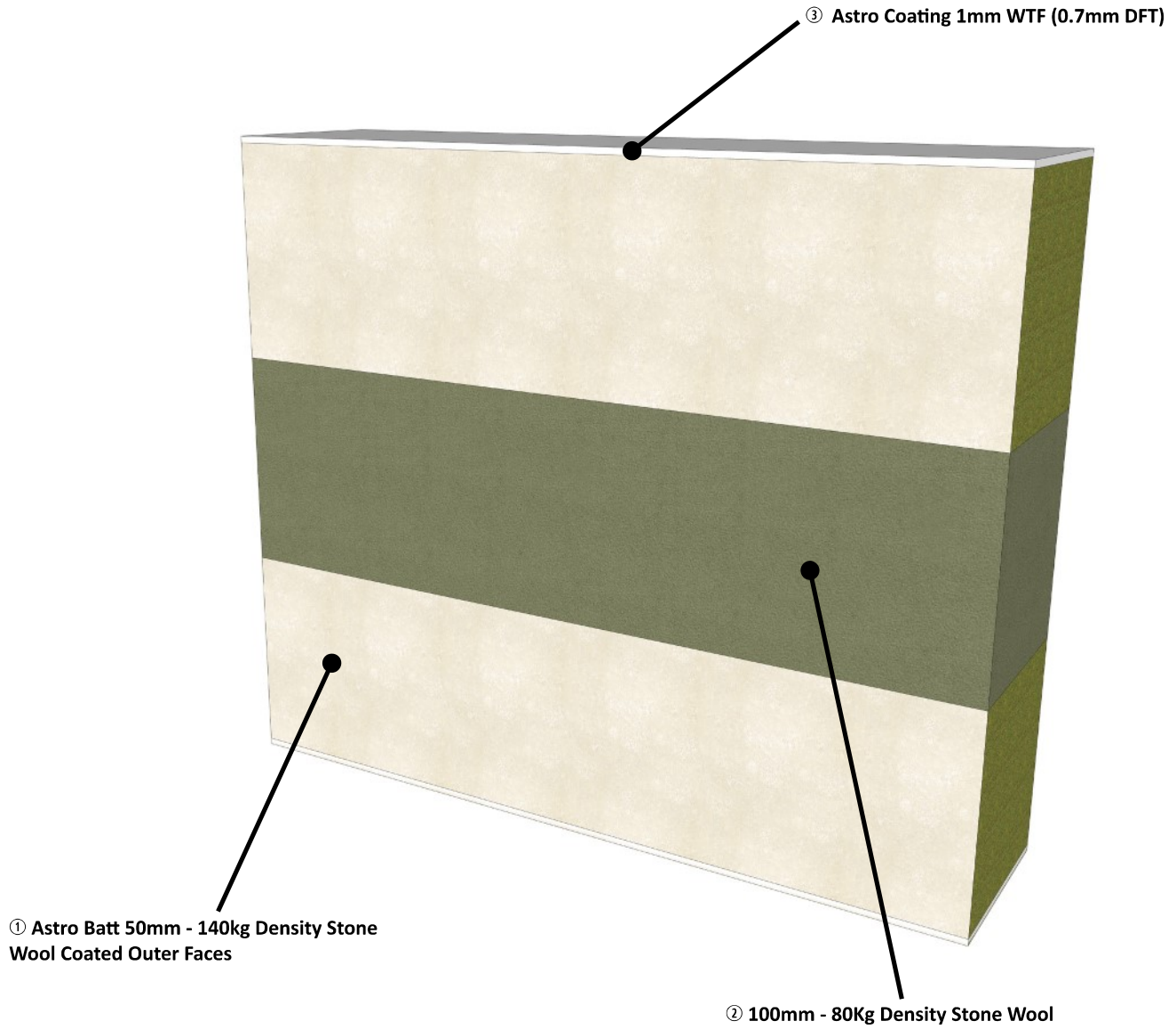
* indicates that the frequency is outside of our UKAS accreditation and is for information only

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Report for: Astroflame (Fireseals) Limited
Report Ref: Chilt/Z: 12009/01/H/Rev1/AR1

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Production Build of Astro Batt 240 FR 57 Dnew (47Rw)



Acoustic Isolation

BM TRADA

Laboratory measurement to
BS EN ISO 10140-2 - Airborne Sound Insulation of
Building Elements



Test Specimen Name: Astro Batt

Reference Number: MTZ/F12009/01/G/AR1p019

Client: Astroflame (Fireseals) Limited

Date of Test: 04/04/2012

Test Specimen Installed By: BM TRADA

Area of Specimen (S): 1.00 m²

Source Room Volume: 82.00 m³

Temperature in Test Rooms: 19.2 °C

Receive Room Volume: 70.00 m³

Static Pressure: 10006.0 Pa

Humidity in Test Rooms: 44.0 %

Test Specimen Description: 500mm x 2000mm aperture filled with single layer Astro Batt. See Appendix 3 for specimen details.

f, Hz	R, dB
50*	23.0
63*	13.6
80*	13.4
100	19.0
125	13.7
160	17.8
200	23.5
250	26.2
315	27.2
400	24.8
500	26.2
600	26.3
800	24.6
1000	18.3
1250	15.8
1600	25.6
2000	27.5
2500	24.5
3150	31.0
4000	32.4
5000	38.7
AAD	-28.6

Frequency range for rating in accordance with ISO 717-1



— Rating Curve (ISO 717-1) — Sound Reduction Index, R, in dB

$R_w = 24$ dB	$C_{(50-3150)} = -2$ dB	$C_{tr(50-3150)} = -4$ dB
$R_w+C = 22$ dB	$C_{(50-5000)} = -1$ dB	$C_{tr(50-5000)} = -4$ dB
$R_w+C_{tr} = 21$ dB	$C_{(100-5000)} = -1$ dB	$C_{tr(100-5000)} = -3$ dB

Martin Durham
Technical Officer

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Report for: Astroflame (Fireseals) Limited
Report Ref: Chilt/Z: 12009/01/G/AR1

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Acoustic Isolation

BM TRADA

Laboratory measurement to
BS EN ISO 10140-2 - Airborne Sound Insulation of
Building Elements



Test Specimen Name: Astro Batt	Reference Number: MTZ/F12009/01/G/AR1p019
Client: Astroflame (Fireseals) Limited	Date of Test: 04/04/2012
Test Specimen Installed By: BM TRADA	Source Room Volume: 82.00 m ³
Area of Specimen (S): 1.00 m ²	Receive Room Volume: 70.00 m ³
Temperature in Test Rooms: 19.2 °C	Static Pressure: 10006.0 Pa
Humidity in Test Rooms: 44.0 %	Test Specimen Description: 500mm x 2000mm aperture filled with single layer Astro Batt. See Appendix 3 for specimen details.

f, Hz	R, dB
50*	33.0
63*	23.6
80*	23.4
100	29.0
125	23.7
160	27.8
200	33.5
250	36.2
315	37.2
400	34.8
500	36.2
600	36.3
800	34.6
1000	28.3
1250	25.8
1600	35.6
2000	37.5
2500	34.5
3150	41.0
4000	42.4
5000	48.7
AAD	-28.6

Frequency range for rating in accordance with ISO 717-1



— Rating Curve (ISO 717-1) — Sound Reduction Index, R, in dB

$D_{n,e,w} = 34$ dB
 $D_{n,e,w}+C = 32$ dB
 $D_{n,e,w}+C_{tr} = 31$ dB

$C_{(50-3150)} = -2$ dB $C_{tr(50-3150)} = -4$ dB
 $C_{(50-5000)} = -1$ dB $C_{tr(50-5000)} = -4$ dB
 $C_{(100-5000)} = -1$ dB $C_{tr(100-5000)} = -3$ dB

Martin Durham
Technical Officer

* indicates that the frequency is outside of our UKAS accreditation and is for information only

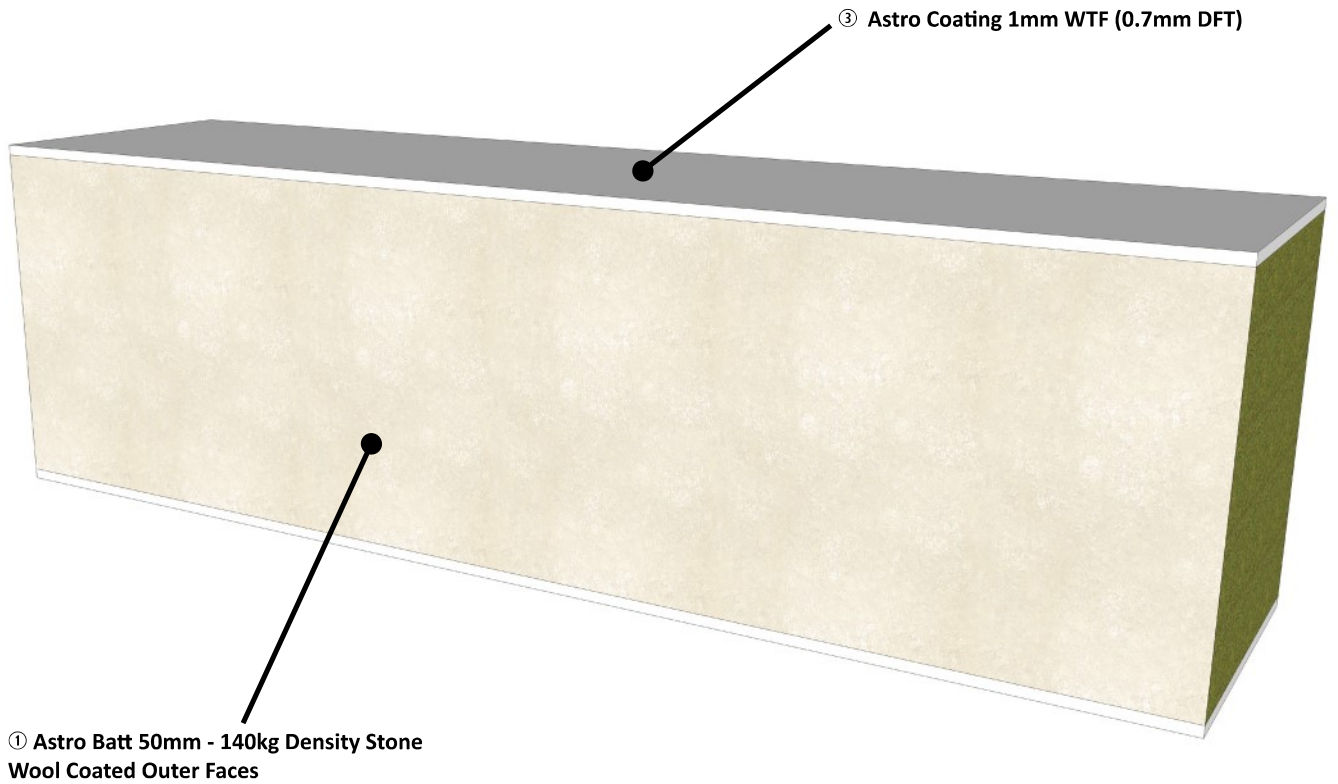
The legal validity of this report can only be claimed on presentation of the complete report

Report for: Astroflame (Fireseals) Limited

Report Ref: Chilt/Z: 12009/01/G/AR1

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Production Build of Astro Batt 240 FR 57 Dnew (47Rw)



Technical specification document**Air Permeability Test****No: Chilt/P12083/tec2**

Performance testing to the principles of BS EN 1026: 2000 windows and doors - Air permeability - Test method was conducted on your panel on 11 September 2012. The technical specification is detailed below. The specimen was delivered to Chiltern Dynamics laboratory on 10 September 2012

Description of construction

The specimen was identified as Astro Batt (50mm). The overall panel dimensions were 600mm wide x 1200mm high x 50mm deep and mounted within a softwood subframe for installation into the test rig

Panel

	Material/type	Dimensions (mm)	Density (kg/m3)
Panel	Astro Batt wool coated both faces	50 thick	140kg
Coating	Astro coating	1 thick (wet thickness)	-

Air Permeability Test

BM TRADA

Results of Test: Chilt/P12083/02/AR1

Astroflame (Fireseals) Limited
Intumescent House
Unit 8, The IO Centre
Stephenson Road
Segensworth, Fareham
PO15 5RU

This document confirms that performance testing was conducted on 11 September 2012. Testing was conducted the principles of the following standard:-

- BS EN 1026: 2000 Windows and doors - Air permeability - Test method.

The following results were achieved

Product tested			Astro Batt (50mm)	
Pressure (Pa)	Results under positive chamber pressure		Results under negative chamber pressure	
	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)
50	0.6	0.8	1.1	1.5
100	1.0	1.4	1.3	1.8
150	2.8	3.9	1.5	2.1
200	3.8	5.3	1.9	2.6
250	4.5	6.3	2.0	2.8
300	5.0	6.9	2.4	3.3
450	5.1	7.1	1.9	2.6
600	6.7	9.3	2.2	3.1

The results relate only to the specimen tested, as detailed in the technical specification Chilt/P12083/tec2/AR1



Paul Andrews – Head of Section



Vincent Kerrigan - Technical Manager
Date: 31 October 2013

BM TRADA

Chiltern House, Stocking Lane, Hughenden Valley, High Wycombe, HP14 4ND, United Kingdom

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Web: www.bmtradagroup.com

Email: testing@bmtrada.com

This document is confidential and remains the property of Chiltern International Fire Ltd, trading as BM TRADA

**3RD PARTY ACCREDITATION
CERTIFIRE CF 614
HAS BEEN REPLACED BY
UL 3RD PARTY ACCREDITATION
PLEASE **CLICK HERE** FOR CERTIFICATE
OR SCAN THE QR CODE:**



Installation

We have technical representatives who provide assistance in the selection and specification of the products on this site and should be consulted for exact installation and product suitability. Ensure an early engagement with ourselves, designers, main contractor and specialist installers before any installation. Other trades and/or manufacturers may need to be consulted. For in-depth information, specification and technical advice please call our Head Office on tel [01329 844 500](tel:01329844500) or email sales@astroflame.com

Maintenance

All interested parties, designer, specifier, main contractor and specialist installers should provide access to allow the fire stopping seals to be regularly inspected and maintained, as well as records kept of such maintenance at minimum periods of 12 months, as required by the Regulatory Reform Order, and repaired if necessary. Reference should be made to ASFP TGD 17 – Code of Practice for the Installation and Inspection of Fire Stopping.

Competency

It is vital that those entrusted to design or install a fire stopping product have the necessary levels of competence to undertake the task professionally and thoroughly. The level of competency required will be commensurate with the expected complexity of the building. All designers must eliminate, reduce or control foreseeable risks that may arise during installation, construction or maintenance when preparing or modifying designs. Clients should ensure that the principal designer and principal contractor carry out their duties under CDM regulations. The ASFP foundation course in passive fire protection provides essential knowledge as part of demonstrating competency and understanding in this key fire protection specialism.

Additional Notes

Please refer to the ETA/UL-EU sheet for fields of application for this product. For further information on installation requirements please refer to the manufacturer of the services and the wall/floor specification to ensure the compatibility of this product, if in doubt please contact the technical team with services and wall/floor specification on: tel [01329 844 500](tel:01329844500) or email sales@astroflame.com

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The above information to the best of our knowledge is true and accurate and based upon current test data and is supplied for your guidance only. Customers should satisfy themselves to the suitability of the product based on the products limitation of applications and that the product is fit for purpose for their intended use and no guarantee is given or implied since the conditions of actual use are beyond our control. ASTROFLAME (FIRE SEALS) LTD, disclaim any liability for loss, damage or other expense arising from the use of information, data or products mentioned or referred to and reserve the right to change any details or specifications without notice. If you are in any doubt as to the suitability of this product for your intended application please contact our technical team on 01329 844500 or email sales@astroflame.com and we will contact you.