



lssue: 1 July 2014

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APPROVED CF614

EN13501-2 EN1026:2000 EN10140-2:2010 EN1366-3:2009 BS476 part 20&22

Technical Data Sheet

Astro Batt®

UIC of product-type: CBCT

BATT[®]



Unique identification code of product-type: CBCT Technical Description of the Product

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.

ETA 14-0099

0E+1121+0FB-JA5026

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 14-0049 & 14-0050

Astro HPE Sealant is required to seal around specific services. Astro HPE Sealant is subject to a separate ETA referenced ETA 14/0044

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 dependant on the configuration. The minimum permitted separation between adjacent seals/apertures is 200mm

Pipes must be installed singular, cables require no minimum separation



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Services in walls shall be supported at maximum 250mm form 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

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0E+1121+0FB-JA5026

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 foe 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 (50mm)			
	Results under pos	sitive o	chamber pressure	Results under nega	tive chamber pressure
Pressure (Pa)	Leakage (m3/h)	Lea	kage (m3/m2/h)	Leakage (m3/h)	Leakage (m3/m2/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



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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

ETA 14-0099 CE-1121-CFR-JA5026

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 fore performance	Any	System 1

Resistance to Fire Classification of Astro Batt

Flexible and Rigid wall constructions according to ETAss 14-0099 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	insulation	Seal	Classification	
40mm diameter and 1.5 - 14.2mm wall	20mm thick foil faced glass wool insulation (min 80kg/ m3)	15mm deep x 15mm wide annulus Astro	E 90 U/C El 60 U/C	
40 - 159mm diameter and 2.3 - 14.2mm wall	30mm thick foil faced glass wool insulation (min 80kg/ m3)	graphite HPE Sealant to both faces seal	EI 60 U/C	

Service(s)	Insulation Seal		Classification	
Mild Steel	insulation	Seal	Classification	
40mm diameter and 1.7 - 14.2mm wall	20mm thick foil faced glass wool insulation (min 80kg/ m3)	15mm deep x 15mm wide annulus Astro	E 90 U/C El 60 U/C	
40 - 150mm diameter and 2.3 - 14.2mm wall	30mm thick foil faced glass wool insulation (min 80kg/ m3)	graphite HPE Sealant to both faces seal	EI 60 U/C	



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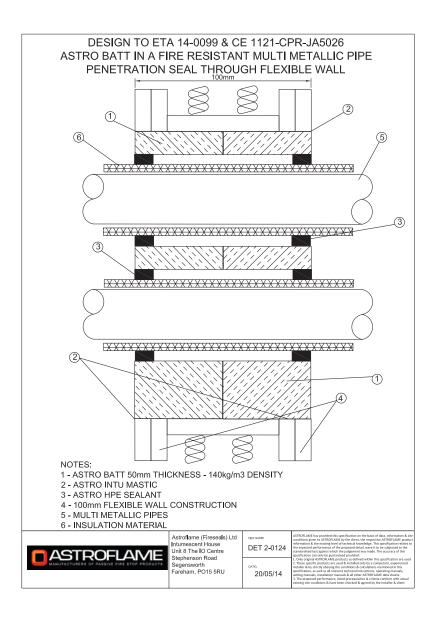


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ETA 14-0099 CE-11121+CFR-JA5026

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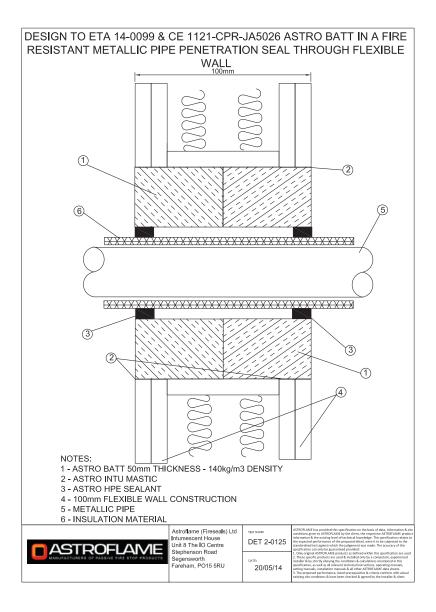


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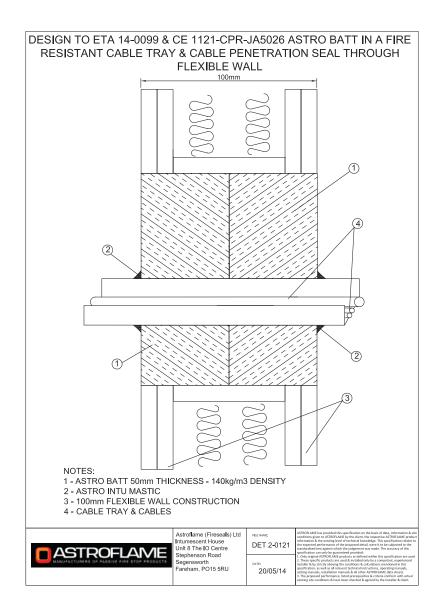
ETA 14-0099 CE-11221-CFR-JA5026

Unique identification code of product-type: CBCT

Flexible and Rigid wall constructions according to ETAss 14-0099 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, El 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, El 15
Steel or Copper Conduits up to 16mm	E 60, El 15
Plastic conduits up to 16mm	EI 60





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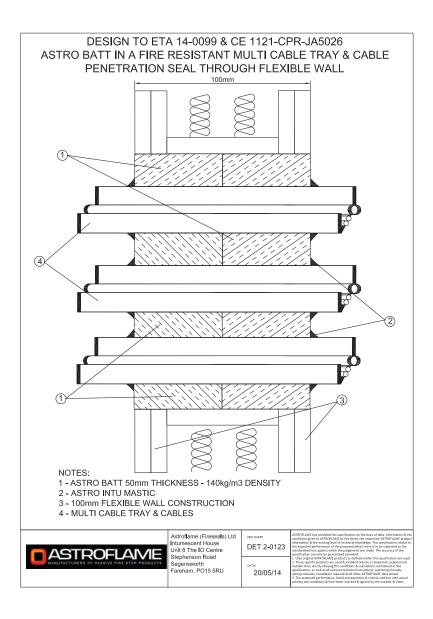


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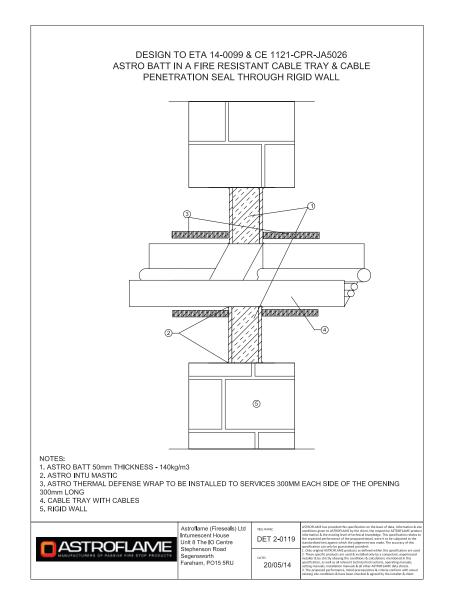
ETA 14-0099 CE-11121+CFR-JA5026

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Rigid wall constructions according to ETAss 14-0099 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



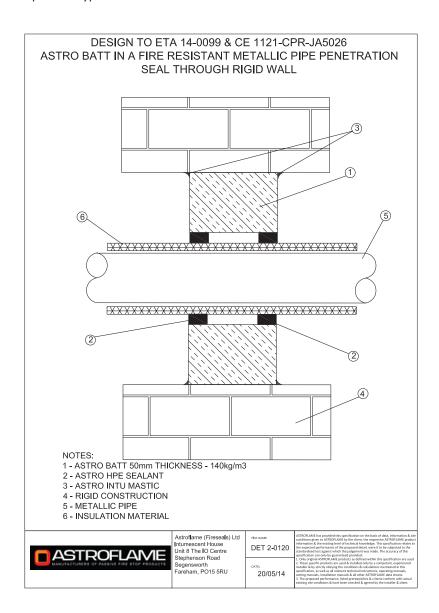


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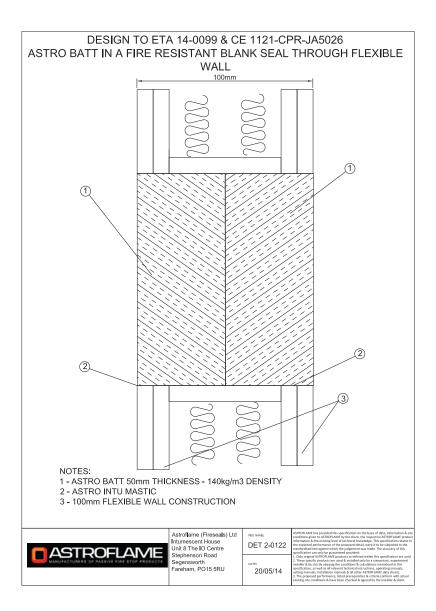


ETA 14-0099 CE-11221-CFR-JA5026

Unique identification code of product-type: CBCT

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

Test Results		
Integrity Performance	163 minutes	
Insulation Performance	161 minutes	





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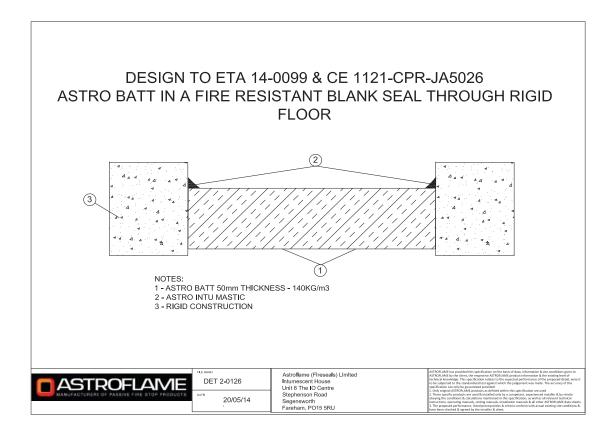


ETA 14-0099 CE-11221-CFR-JA5026

Unique identification code of product-type: CBCT

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)
Α	79	79	79	63





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ETA 14-0099 03-011211-0713-072020

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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 0oC



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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 identify Astro 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		



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Certification of Constancy of Performance

Y	War	rington
Warrington Certification Limite	Notified body No. 1 d, Holmesfield Road,	21 Warrington, Cheshire, WA1 2DS, UK
Certificate of	of constancy o	of performance
	1121-CPR-JA5	026
n compliance with <i>Regulation 305/2011/</i> the Construction Products Regulation or	EU of the European Pa CPR), this certificate a	<i>diament and of the Council of 9 March 2011</i> oplies to the construction product
Ast	tro Batt and C	oating
ntended use: Penetration Seals		
Essential characteristics	Performance according to	Technical specification
Reaction to fire	ETA 14/0099	ETAG 26-02 (Used as EAD)
Resistance to fire	ETA 14/0099	ETAG 26-02 (Used as EAD)
Dangerous substances	ETA 14/0099	ETAG 26-02 (Used as EAD)

This certificate is the property of Warrington Certification Limited, part of Exova (UK) Ltd. Registered office: Lochend Industrial Estate, Newbridge, Midlothian, EH28 8PL, UK. Registered in Scotland, No. SC 70429



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Unique identification code of product-type: CBCT

Certification of Constancy of Performance

War certifica	rington
Certificate of constancy	of performance
1121-CPR-JA5	026
produced for	
Astroflame (fireseals Unit 8 The IO Ce Stephenson Ro Segensworth Fareham Hampshire PO15 5RU UK	entre pad
and produced in the manufa	octuring plant
E/055 This is coded format and the information is	s held by the Notified Body
This certificate attests that all provisions concerning the a performance and the performances described in the European 1	assessment and verification of constancy c Technical Approval referenced
ETA 14/0099	9
under system 1 of AVCP are applied and that	
the product fulfils all the prescribed re	equirements set out above.
This certificate was first issued on 08/04/14 and will remain va production control requirements included in the harmonised sta declared characteristics, do not change, and the product, and th modified significantly.	andard, used to assess the performance of the
	Part Bagg-
	Paul Duggan Certification Manager Warrington Certification Ltd
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	Page 2 of : Limited, part of Exova (UK) Ltd.



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TECHNICAL DATA SHEET



TECHNICAL SCHEDULE

Unique identification code of product-type: CBCT



Astro Batts & Coating (with Astro Intu Mastic)

This Approval to the use of Astro Batts & Coating (with Astro Intu Mastic) 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 Astro Batts & Coating (with Astro Intu Mastic) required fire resistance periods in accordance with BS 476: Part 20: 1987 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: 3rd Edition for 3rd party certification schemes.

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.

The product is approved on the basis of:

- Initial type testing
- Audit testing at the frequency specified inTS03
- A design appraisal against TS03
- Inspection and surveillance of factory production control

The stud partition drywalls, masonry or concrete walls shall be at least 130mm thick and have at least the same fire rating as that required for the penetration seal.

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

The approval relates to ongoing production. Product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.







Unique identification code of product-type: CBCT

Astro Batts & Coating (with Astro Intu Mastic)

TECHNICAL SCHEDULE

Nb.0F6143

Approval Matrix - Up To 120 Minute Walls

Product	Name:	Astro Batts & Coating (with Astro Intu Mastic)		Intu Mastic)	
Coating	g/DFT:	Astro Coatin		;/1mm thick	
Dens	ity:	140kg/m3 minimum			
Barrier		Service	Integrity	Insulation	
	Cable Ladde	r (340mm wide by 100mm high max)	120 minutes	60 minutes	
	Ca	ables up to 26mm diameter	120 minutes	N/A	
Single layer (50 & 60mm)	Stee	l pipes up to 60mm diameter	120 minutes	N/A	
a conning	PVC	pipes up to 110mm diameter*	60 minutes	N/A	
	Steel ducts	(445mm wide by 445mm high max)	120 minutes	N/A	
	Cable Ladd	er (340mm wide by 100m high max)	120 minutes	60 minutes	
Double	Ca	ables up to 26mm diameter	120 minutes	60 minutes	
layer (100 &	Stee	l pipes up to 60mm diameter	120 minutes	30 minutes	
120mm)	PVC	pipes up to 110mm diameter*	60 minutes	N/A	
	Steel ducts (44	5mm wide by 445mm high max)	120 minutes	N/A	
* PVC	pipes must be u	sed in conjunction with Astroflame Pipe \	Nraps over seale	ed with ablative coating	
Maximum aperture 2880mm high by 144 Multiple apertures m		2400 mm high by 1200mm 9120 minute 2880mm high by 1440mm (60 minutes i Multiple apertures must be separated by concrete/masonry constructions	integrity perform	nance)	
Wa	WallsThe walls shall be a minimum of 130mm thick The minimum density for the concrete or brick of the wall is 780kg/m3 and fo of concrete blocks is 600kg/m3. Partition drywalls will comprise at least 2 lay thick Type 'F' gypsum boards on each side of minimum 70mm by 32mm stee All concrete, masonry or drywalls shall have at least the same fire rating as t for the barrier		omprise at least 2 layers of 15mm 70mm by 32mm steel studs		
Concrete/masonry walls Boards tightly friction fitted into the aperture at mid-depth of wall. Board join board to aperture junction is sealed with Astro coating or Astro Intu Mastic. Ap penetrating items are to be tightly fitting and be sealed with Astro Coating or 		or Astro Intu Mastic. Apertures for I with Astro Coating or Astro Intu			
Service Co	oat-Back	with two layers of 15mm thick Type 'F' g Not required	gypsum boards U Value	Not Known	
Service Support Requirements Services should be rigidly supported via steel angles, hangers or channels, not full than 500mm the surface of the sealing system on both faces.					



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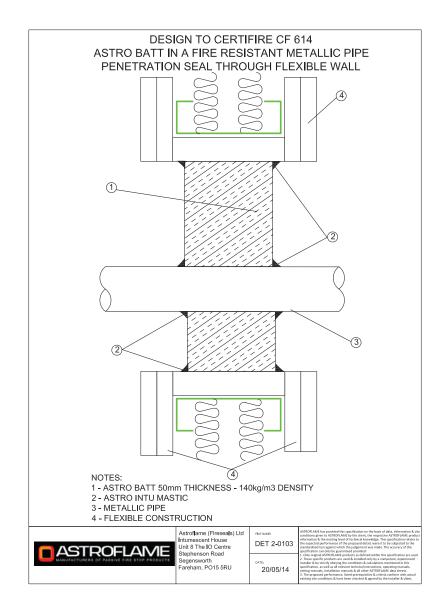
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TECHNICAL SCHEDULE

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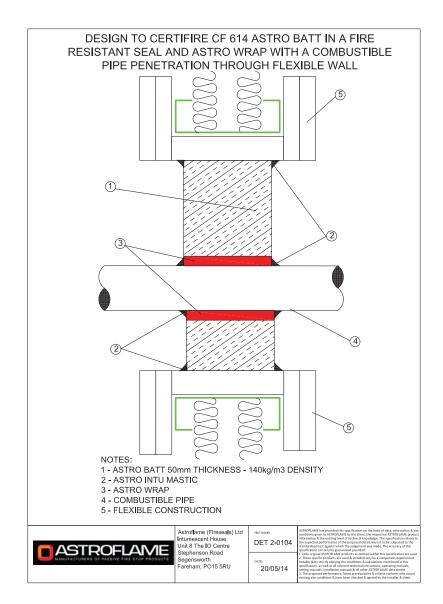


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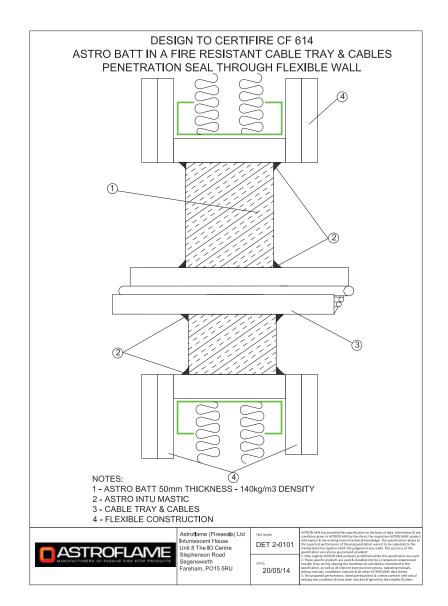
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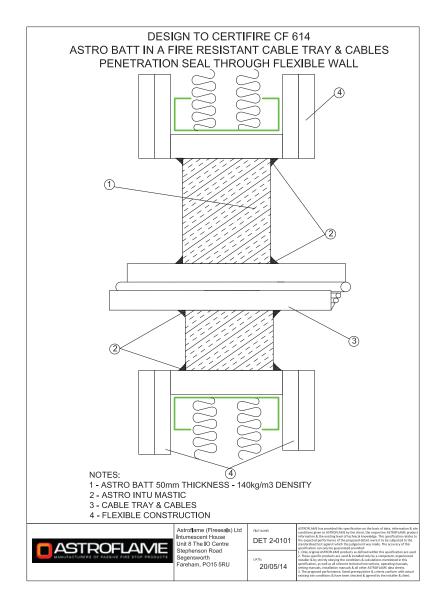
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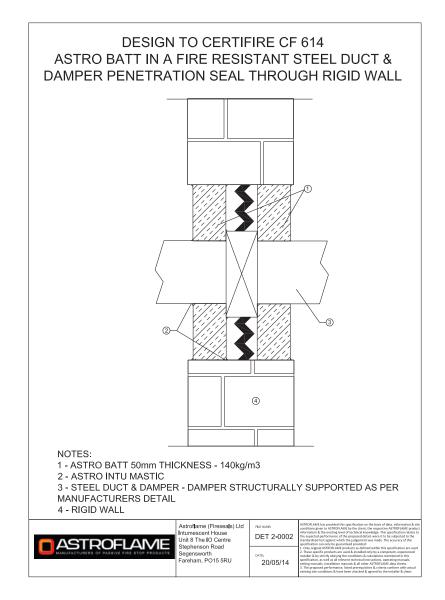




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MANUFACTURERS OF PASSIVE FIRE STOP PRODUCTS

TECHNICAL SCHEDULE

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Astro Batts & Coating (with Astro Intu Mastic)

Approval Matrix - Up To 240 Minute Walls

Product	Name:	Astro Batts & Coat	ting (with Astro I	Astro Intu Mastic)	
Coating	;/DFT:	Astro Coating/1mm thick		:k	
Dens	ity:	140kg/m3 minimum			
Barrier		Service	Integrity	Insulation	
a	Cable Ladde	r (340mm wide by 100mm high max)	240 minutes	N/A	
Single layer (50 & 60mm)	Ca	bles up to 26mm diameter	240 minutes	N/A	
a commy	Ar	eas of seal without services	240 minutes	60 minutes	
Double	Cable Ladd	er (340mm wide by 100m high max)	240 minutes	60 minutes	
layer (100 &	Ca	bles up to 20mm diameter	240 minutes	60 minutes	
120mm)	Ar	eas of seal without services	240 minutes	240 minutes	
Maximum aperture Multiple		1000 mm high by 660mm wide subject to a maximum area of 0.6m2 Multiple apertures must be separated by a minimum of 240mm in concrete/masonry con- structions			
WallsThe walls shall be a minimum of 140mm thickWallsThe minimum density for the concrete or brick of the wall is 780kg/m3 ar of concrete blocks is 600kg/m3. All concrete, masonry walls shall have a fire rating as that required for the barrier		<u>.</u>			
Concrete/masonry walls Boards tightly friction fitted into the aperture at mid-depth of wall. Board board to aperture junction is sealed with Astro coating or Astro Intu Mastic penetrating items are to be tightly fitting and be sealed with Astro Coatin Mastic and must be separated by at least 240mm		or Astro Intu Mastic. Apertures for			
Service Co	oat-Back	Not required	U Value	Not Known	
Service Support Requirements Services should be rigidly st		Services should be rigidly supported v than 500mm the surface of		-	



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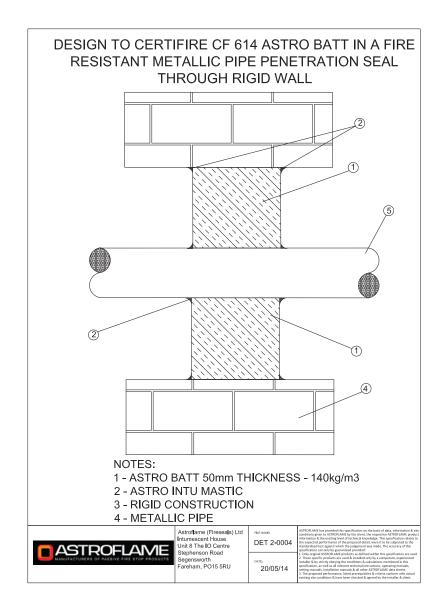
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TECHNICAL DATA SHEET

TECHNICAL SCHEDULE

Unique identification code of product-type: CBCT



Nb.0F614



Astroflame Ltd Unit 8, The I O Centre Stephenson Road Segensworth, Fareham Hampshire, PO15 5RU

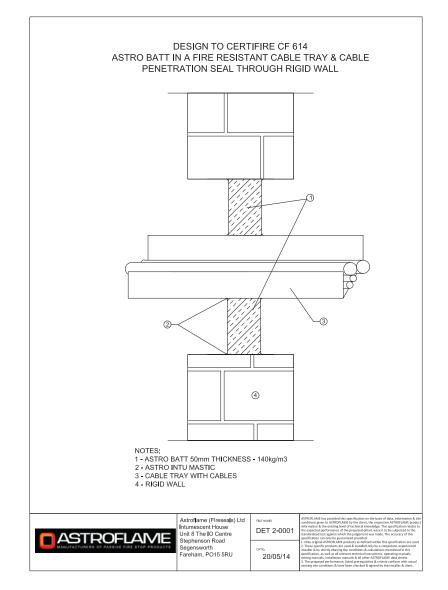


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TECHNICAL DATA SHEET

MANUFACTURERS OF PASSIVE FIRE STOP PRODUCT

TECHNICAL SCHEDULE

Unique identification code of product-type: CBCT

Astro Batts Coating with Astro Intu Mastic)

Approval Matrix - Up To 120 Minute Floors

Product	Name:	Astro Batts & Coating (with Astro Intu Mastic)		Intu Mastic)
Coating	g/DFT:	Astro Coating/1mm thick		:k
Dens	ity:	140kg/m3 minimum		
Barrier	Service		Integrity	Insulation
Double	Cable Ladd	er (340mm wide by 100m high max)	120 minutes	60 minutes
layer (100 &	Ca	ables up to 20mm diameter	120 minutes	60 minutes
120mm)	Ar	eas of seal without services	120 minutes	120 minutes
Maximum	aperture	1200 mm high by 600mm wide subject to a maximum area of 0.72m2 Multiple apertures must be separated by a minimum of 240mm in concrete/masonry structions		
Wa	lls	The walls shall be a minimum of 115mm thick The minimum density for the concrete or brick of the wall is 780kg/m3. All concrete, masonry walls shall have at least the same fire rating as that required for the barrier		
Application	Technique	Concrete/masonry walls Boards cut to size (not joined) tightly friction fitted into the aperture at mid-dept floor. Board to aperture junction is sealed with Astro coating or Astro Intu Mast tures for penetrating items are to be tightly fitting and be sealed with Astro Coating or Astro Intu Mastic and must be separated by at least 240mm		pating or Astro Intu Mastic. Aper- be sealed with Astro
Service Co	oat-Back	Not required	U Value	Not Known
Service Support	Requirements	Services should be rigidly supported via steel angles, hangers or channels, not further than 500mm the surface of the sealing system on both faces.		

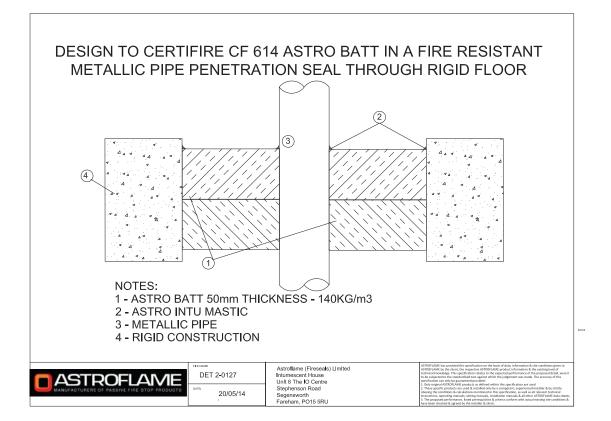


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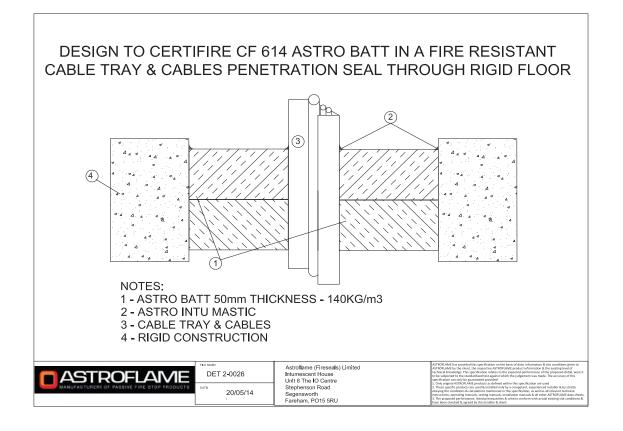


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ASTRO BATT®

TECHNICAL SCHEDULE



Unique identification code of product-type: CBCT

Astro Batts & Coating (with Astro Intu Mastic)

Weather Canability	Pressure (Pa)	sure (m3/h/	pressure	Weather Capability	Not evaluated by this
	approval				
	100	1.4	1.8		
	1 x 50mm thick			Movement Capability	
	Rw (C;Ctr)		C;Ctr) 22 (0;-3) dB		
Acoustic Rating Dnew ((C;Ctr)	32 (0;3) dB		Not evaluated by this
BS EN ISO 10140-2: 2010	approval	2 x 50mm thick			approval
	Dnew	(C;Ctr)	38 (0;3)dB		

Further Information

Further information regarding the details contained in this data sheet may be obtained from Astroflame Fireseal Limited (Tel: 013329 844500)

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



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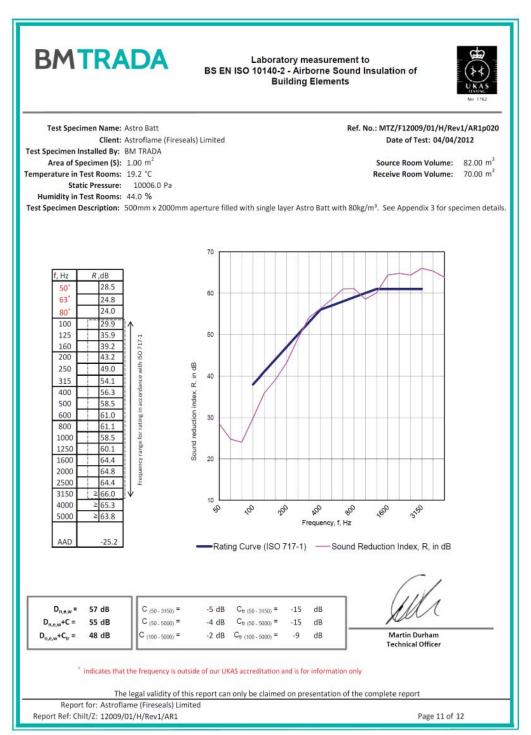
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Unique identification code of product-type: CBCT

TECHNICAL SCHEDULE



Acoustic Isolation





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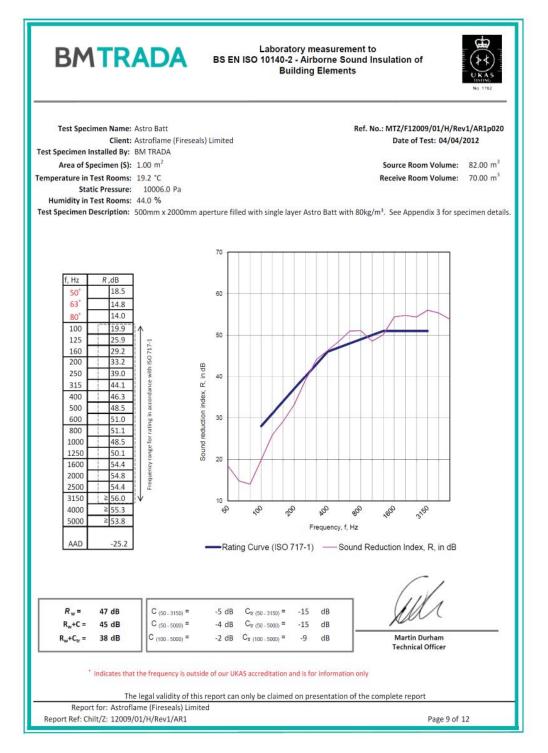
ASTEO BATT®

Unique identification code of product-type: CBCT

Acoustic Isolation

TECHNICAL SCHEDULE

Nb.07614



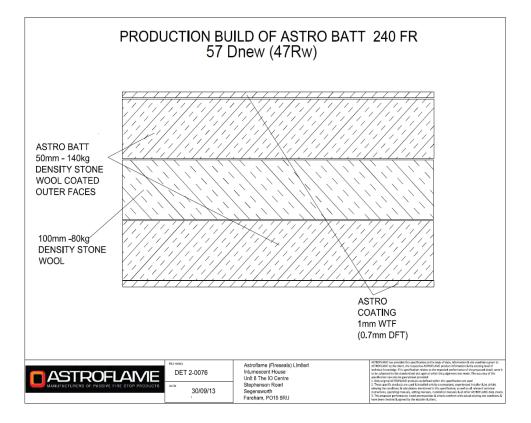


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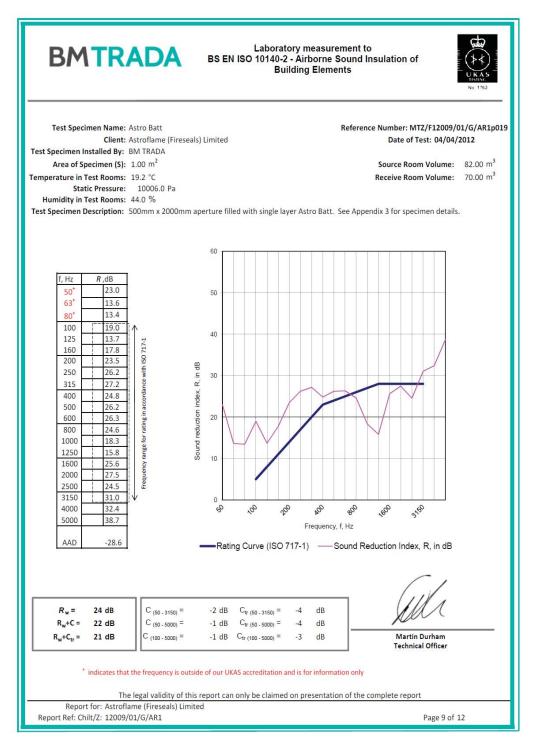
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Acoustic Isolation





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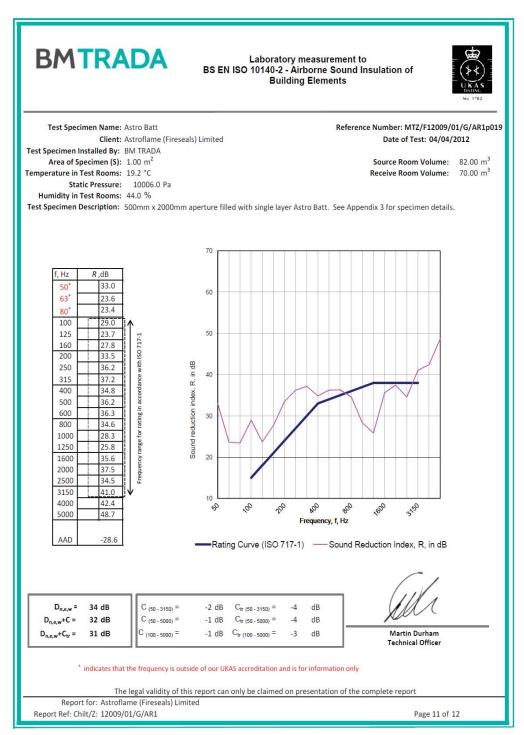
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TECHNICAL SCHEDULE



Acoustic Isolation





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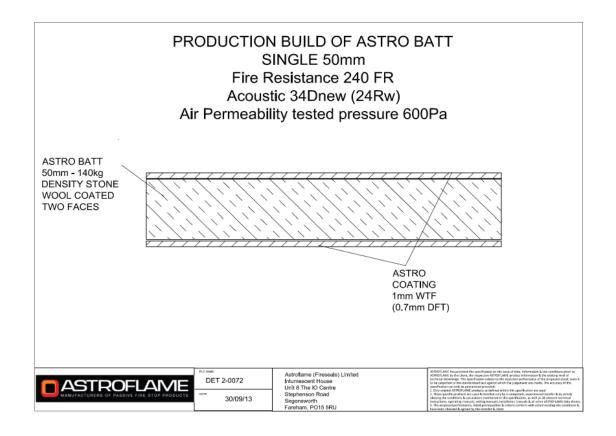
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TECHNICAL DATA SHEET

ASTROFLAME MANUFACTURERS OF PASSIVE FIRE STOP PRODUCT

Unique identification code of product-type: CBCT



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ASTRO BATT® TECHNICAL SCHEDULE



Unique identification code of product-type: CBCT

Technical specification document Air Permeability Test

No: Chilt/P12083/tec2

Test For: Astroflame Fireseal Limited, Westminster Industrial Estate, Tamworth Road, Measham, DE12 7DS

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)	-



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TECHNICAL SCHEDULE

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Air Permeability Test

	BM	TRA	DA	
Result	s of Test	:: Chilt/P	12083/0	02/AR1
document confi	In Un Seg	tumescent Hou it 8, The IO Cen itephenson Roa ensworth, Fare PO15 5RU	ise htre ad ham	
contraction of the second s	/indows and doors -	Air permeability - Test	method.	
Pro	oduct tested		Astro Batt (5	0mm)
		oositive chamber	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
450 600	5.1 6.7	7.1 9.3	1.9	2.6
Paul Andrew	s – Head of Section	Din Vinc	ent Kerrigan - Tecl	hnical Manager
el: 01494 569800 Fa /eb: <u>www.bmtradagr</u> mail: <u>testing@bmtra</u>	ax: 01494 564895 oup.com da.com	Valley, High Wycombe, H perty of Chiltern Internation		gdom
				N 9 10 TU 17 18 1



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