



Date : 27/08/2024

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following					
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	IGV (mild steel) – 351255	IGV (stainless steel) – 404034	SGV – 429967/R	CERTIFICATE NUMBER	ME 5073
DATE OF ISSUE	22 nd July 2015	24 th October 2018	22 nd September 2020	DATE OF ISSUE	27th August 2024
DATE OF EXPIRY	n/a	n/a	n/a	DATE OF EXPIRY	29 th July 2025
Manufacturer details					
NAME OF FACTORY/ MANUFACTURER	Apreco Limited. Unit 2. Bishops Frome Technology Park Bishops Frome. Worcester. WR6 5AY. United Kingdom.		NAME OF THE BRAND	Apreco	
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Apreco Limited. Unit 2. Bishops Frome Technology Park. Bishops Frome. Worcester. WR6 5AY. United Kingdom.		MODEL / NO	IGV (Inert Gas Vent) SGV (Synthetic Gas Vent)	
WEBSITE	www.apreco.com		LOGO ON THE PRODUCT		
TEL	+44(0)1885 485 070		EMAIL	info@apreco.com	



Paul Rogers



Product Details From Test Report		Reference Test Report page NO
DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)	<p>Inert gas vents with a fire resistance rating of up to 240 minutes (4 Hours).</p> <p>Synthetic gas vents with a fire resistance rating of up to 180 minutes (3 Hours).</p> <p>The units are constructed of 1.2mm Zintec Steel.</p> <p>IGV gas vents may also be constructed in stainless steel.</p>	<p>No.351255 – Pages 1 & 2</p> <p>No. 429967/R – Pages 1 & 2</p> <p>No. 404034 – Pages 1 & 2</p>
TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	BS EN 1634-1	<p>No.351255 – Page 2</p> <p>No.429967/R – Page2</p> <p>No. 404034- Page 5</p>
TEST DESCRIPTION	<p>Tests to determine the fire resistance performance of two inert gas vents (IGV's) and one Synthetic gas vent (SGV) in accordance with BS EN 1634-1. The specimens were judged on their ability to comply with the performance criteria for integrity and heat radiation, as determined in BS EN 1363-1 and BS EN 1363-2.</p>	<p>No.351255 – Page 5</p> <p>No.429967/R – Page 5</p> <p>No. 404034- Page 5</p>
SPECIFICATION OF TEST SPECIMEN	<p>The Inert gas vents each of overall size 1140mm wide by 1152mm wide by 116mm deep; having an internal opening of nominally 1008mm wide by 1024mm high and the Synthetic gas vent with an overall size 1140mm by 1152mm wide by 137mm deep; having an internal opening of nominally 1000mm wide by 1002mm high. Each fitted into an aperture in an aerated blockwork wall 150mm thick. The vents incorporated a wall liner/flange mounting formed from 1.2mm thick powder coated Zintec steel or in stainless steel (for IGV only)</p> <p>IGV – Standard Flow Specimen B (mild steel)</p> <p>IGV – Reverse Flow Specimen A (mild steel)</p> <p>IGV – Standard Flow Specimen (stainless steel)</p> <p>SGV – Dual flow specimen</p>	<p>No.351255 – Page 2</p> <p>No.429967/R – Page 2</p> <p>No. 404034- Page 2</p>



Paul Rogers




<p>TEST RESULT (SUCH AS PASSED CRITERIA___/ COMPLIED TO___/ DURATION___/OBSERVATION___/ETC)</p>	<p>Integrity Performance for sustained flaming and gap gauge results to BS EN 1634-1 fire resistance tests, BS EN 1363-1 general requirements and BS EN 1363-1 alternative and additional procedures : Mild Steel IGV Specimen A = 245 minutes sustained flaming / 127 minutes gap gauge. Mild steel IGV Specimen B = 245 minutes sustained flaming / 245 minutes gap gauge. Stainless steel IGV Specimen = 241 minutes sustained flaming / 241 minutes gap gauge SGV Specimen = 245 minutes sustained flaming / 199 minutes gap gauge</p>	<p>No.351255 – Page 28 No.429967/R – Page 23 No. 404034- Page 21</p>
<p>PRODUCT APPLICATION GUIDELINE (END USE) (CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN___/TO BE INSTALLED AT___/TO BE CONNECTED WITH___/TO BE INSTALLED WITH___ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN___/NOT TO BE INSTALLED AT___/ NOT TO BE INSTALLED WITH___ ETC.</p>	<p>The inert gas vents and synthetic gas vents are designed for the use with gaseous fire suppression systems where inert/synthetic gases are used to extinguish fires. The IGV & SGV vents are designed to relief excess pressure on a system discharge. The vents should be installed in vertical partitions to maintain the fire integrity. Certificated scope given in CF5073</p>	



Paul Rogers



Laboratory and Certification body details

NAME OF CERTIFICATION BODY	Warringtonfire Testing and Certification Limited	NAME OF TEST FACILITY	Warringtonfire Testing and Certification Limited
CERTIFICATION BODY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Suite 302, The Genesis Centre, Birchwood, Warrington, WA3 7BH, UK	TEST FACILITY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Holmesfield Road Warrington WA1 2DS United Kingdom
WEBSITE	www.warringtonfire.com	WEBSITE	www.warringtonfire.com
TEL	+44 (0) 1925 655116	TEL	+44 (0) 1925 655116
EMAIL	info@warringtonfire.com	EMAIL	info@warringtonfire.com
ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)</small>	UKAS (United Kingdom Accreditation Services)	ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)</small>	UKAS (United Kingdom Accreditation Services)
AS PER <small>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)</small>	BS EN ISO/IEC 17065:2012	AS PER <small>(STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)</small>	BS EN ISO/IEC 17065:2012
VALIDITY <small>(EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)</small>	Initial Accreditation Granted: 01 st August 1999 Current Certificate Issued: 24th March 2024	VALIDITY <small>(EXPIRY DATE OF LABORATORY ACCREDITATION)</small>	Initial Accreditation Granted: 5th September 1983 Current Certificate Issued: 25th January 2024
REFERENCE NUMBER: <small>(CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	UKAS Certification Body No. 0087 Notified Certification Body No. 1121	REFERENCE NUMBER: <small>(THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	UKAS No. 0249
CERTIFICATION MARK			





Paul Rogers



(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER

NAME OF MANUFACTURER'S SIGNATORY		SIGNATURE	
EMAIL / TEL		FACTORY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			

(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY

NAME OF CERTIFICATION BODY SIGNATORY	Paul Duggan Certification Manager	SIGNATURE	
EMAIL / TEL	ewcl@warringtonfire.com +44 (0) 1925 655116	CERTIFICATION BODY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			

ATTACHMENTS:

- **COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)**







CERTIFICATE OF APPROVAL
No ME 5073

APRECO LIMITED

**Unit 2, Bishops Frome Technology Park, Bishops Frome, Worcester
WR6 5AY
Tel: 01885 485070**

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

CERTIFIED PRODUCT	TEST STANDARD
Pressure Relief Vent Models:	ETS 001
IGV Inert Gas Vent	
SGV Synthetic Gas Vent	

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager



Issued: 29th June 2015
Revised: 27th August 2024
Valid to: 29th July 2025

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CERTIFICATE OF APPROVAL No ME5073

Approved Manufacturing Location

Apreco Limited Unit 2 Bishops Frome Technology Park Bishops Frome Worcester WR6 5AY United Kingdom	Apreco Limited Unit 8A Spring Lane Industrial Estate Malvern, Worcester WR14 1BY United Kingdom
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Certification Evidence – IGV Inert Gas Vent

- WF Test Report No. 351255 – test generally in accordance with BS EN 1634-1: 2014
- Sampling and Factory Production Control audits conducted by Warringtonfire Testing and Certification Limited. Initial audit and specimen sampling conducted 5th May 2015.
- WF Test Report No. 429965 – audit fire test on sampled specimens.

Additional Information - IGV Inert Gas Vent

- BSRIA Report No. 58716/3 – BS EN 13030 and BE EN 13141-1

Certification Evidence – SGV Synthetic Gas Vent

- WF Test Report No. 429967 – test generally in accordance with BS EN 1634-1: 2014
- Sampling and Factory Production Control audits conducted by Warringtonfire Testing and Certification Limited. Initial audit and specimen sampling conducted 25th June 2020

Additional Information - SGV Synthetic Gas Vent

- BSRIA Report No. 58716/2 – BS EN 13030 and BE EN 13141-1

Product Description

The IGV range of inert gas pressure relief vents are designed specifically for under-pressure venting associated with gaseous fire suppression systems used for fire protection. The SGV range of synthetic gas pressure relief vents are designed specifically for over and under-pressure venting associated with gaseous fire suppression systems used for fire protection. Powder coated carbon steel and Stainless Steel options are available.

The pressure relief vents can also provide protection against under-pressure characteristics found with synthetic/chemical suppressant systems. The IGV vents have the unique benefit of a reversible core allowing installers to alter the flow direction configuration on site, detailed as standard and reverse flow, whilst keeping the units housed within the wall avoiding protrusions and achieving a fire performance as detailed within this certificate.

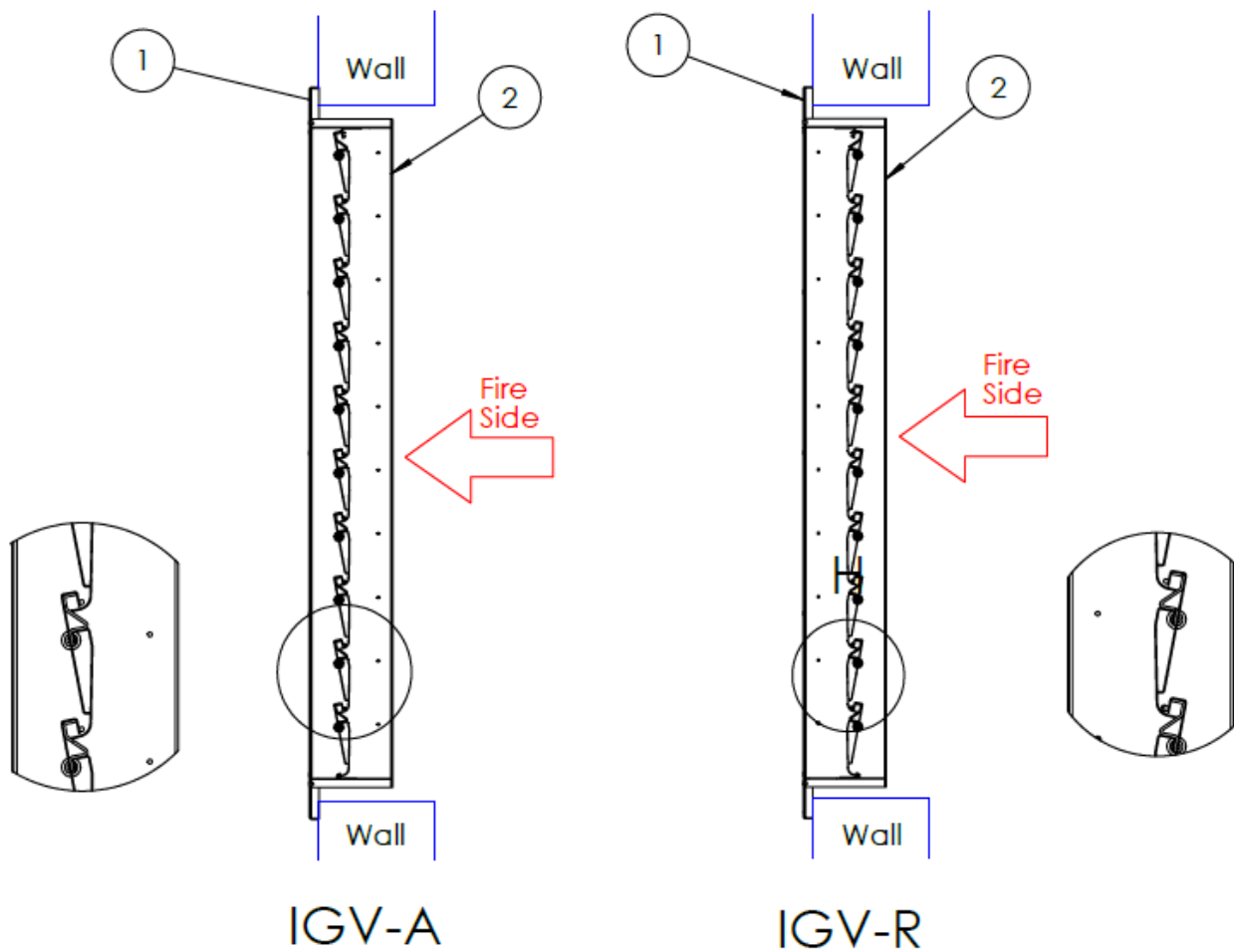
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E014129-1

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Front Flange (1) stays in same orientation. Core (2) is removed and rotated then reattached.



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Apreco IGV and SGV vents are of the 'counter-weighted' design to prevent the risks of over and under pressurisation resulting from the use of gaseous fire suppression systems. Details of their free venting performance are also reported within this certificate.

Maximum room pressure is controlled by the pressure relief vents opening to release excess pressure generated during gas discharge. They are designed to close during the discharge once the initial peak pressures have been relieved to retain the levels of suppressant within the protected area to prevent re-ignition.

The IGV – Inert Gas Vents are supplied in standard sizes as follows:

- IGV 0301 (nominal size of 300mm x 100mm)
- IGV 0303 (nominal size of 300mm x 300mm)
- IGV 0501 (nominal size of 500mm x 100mm)
- IGV 0505 (nominal size of 500mm x 500mm)
- IGV 0707 (nominal size of 700mm x 700mm)
- IGV 1010 (nominal size of 1000mm x 1000mm)

Alternative vent sizes are available in 100mm increments from nominal 100mm to 1000mm.

The SGV – Synthetic Gas Vents are supplied in standard sizes as follows:

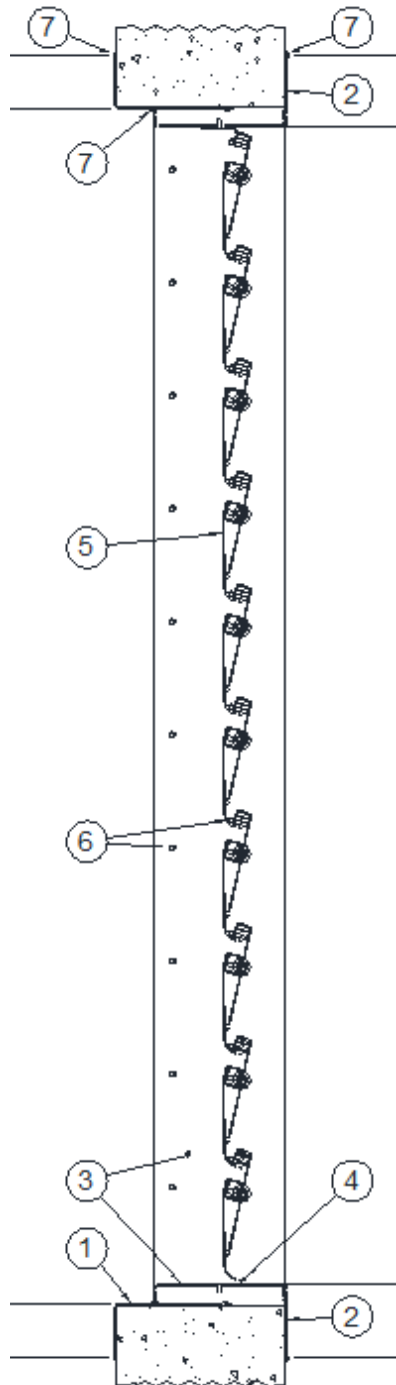
- SGV 0301 (nominal size of 300mm x 100mm)
- SGV 0501 (nominal size of 500mm x 100mm)
- SGV 0303 (nominal size of 300mm x 300mm)
- SGV 0505 (nominal size of 500mm x 500mm)
- SGV 0707 (nominal size of 700mm x 700mm)
- SGV 1010 (nominal size of 1000mm x 1000mm)

Alternative vent sizes are available in 100mm increments from nominal 100mm to 1000mm.

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

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The IGV Inert Gas Vent products are described below:



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Powder Coated Carbon Steel Option:

<u>Item</u>	<u>Description</u>
1. Wall Liner	
Manufacturer	: Apreco Ltd
Material	: Powder coated (white) Zintec steel
2. Front Flange	
Manufacturer	: Apreco Ltd
Material	: Powder coated (white) Zintec steel
3. Frame	
Manufacturer	: Apreco Ltd
Material	: Powder coated (white) Zintec steel
4. Gap Closures	
Manufacturer	: Apreco Ltd
Material	: Powder coated (white) Zintec steel
5. Blade Assembly	
Manufacturer	: Apreco Ltd
Reference	: IGV 1000 Blade Assembly
6. Blade Stop Post	
Material	: Stainless steel rod
7. Perimeter Sealant	
Manufacturer	: Astroflame
Reference	: Intumescent acoustic acrylic mastic
Fixings to blockwork	
i. manufacturer	: Spit
ii. reference	: The Original Tapcon Concrete Anchors
iii. material	: Steel
iv. overall size	: 50 mm long x 5 mm diameter
v. quantity	: 4 off per side, nominally 50 mm from each corner and at 450 mm centres

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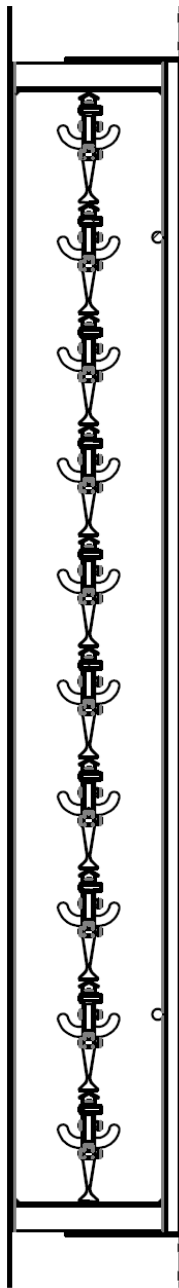
Stainless Steel Option:

<u>Item</u>	<u>Description</u>
1. Wall Liner	
Manufacturer	: Apreco Ltd
Material	: Stainless Steel
2. Front Flange	
Manufacturer	: Apreco Ltd
Material	: Stainless Steel
3. Frame	
Manufacturer	: Apreco Ltd
Material	: Stainless Steel
4. Gap Closures	
Manufacturer	: Apreco Ltd
Material	: Stainless Steel
5. Blade Assembly	
Manufacturer	: Apreco Ltd
Reference	: IGV 1000 Blade Assembly
6. Blade Stop Post	
Material	: Stainless steel rod
7. Perimeter Sealant	
Manufacturer	: Astroflame
Reference	: Intumescent acoustic acrylic mastic
Fixings to blockwork	
i. manufacturer	: Spit
ii. reference	: The Original Tapcon Concrete Anchors
iii. material	: Steel
iv. overall size	: 50 mm long x 5 mm diameter
v. quantity	: 4 off per side, nominally 80 mm from each corner and at 350 mm centres

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The SGV Synthetic Gas Vent products are described below:



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<u>Item</u>	<u>Description</u>
1. Wall Liner	
Manufacturer	: Apreco Ltd
Material	: Powder coated (white) Zintec steel angle
2. Front Flange	
Manufacturer	: Apreco Ltd
Material	: Powder coated (white) Zintec steel angle
3. Frame	
Manufacturer	: Apreco Ltd
Material	: Powder coated (white) Zintec steel channel
4. Gap Closures	
Manufacturer	: Apreco Ltd
Material	: Powder coated (white) Zintec steel angle
5. Blade Assembly	
Manufacturer	: Apreco Ltd
Reference	: SGV 1000 Blade Assembly
6. Brace Rod	
Manufacturer	: Apreco Ltd
Material	: Zinc plated mild steel bar
7. Fusible Link	
Manufacturer	: Globe Technologies Corp.
Reference	: Fusible Link Assembly – Model A 74°C
8. Perimeter Sealant	
Manufacturer	: Astroflame
Reference	: Intumescent acoustic acrylic mastic
Fixings to blockwork	
i. manufacturer	: Rawlplug
ii. reference	: R-KGS-0632
iii. material	: Steel
iv. overall size	: 32 mm long x 6 mm diameter
v. quantity	: 4 off per side, nominally 50 mm from each corner and at 450 mm centres

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Certificated Product Performance – IGV Inert Gas Vent

The IGV Inert Gas Pressure Relief Vents certificated provide the following performance when tested generally in accordance with BS EN 1634-1: 2014:

Standard Flow Orientation	240 minutes integrity
Reverse Flow Orientation	120 minutes Integrity

Product Performance* – IGV Inert Gas Vent

From recorded pressure drops across an IGV 0505 at a range of airflows following the test methods defined in BS EN 13030, the equivalent area is calculated, in accordance with EN 13141-1, to be as follows:

Equivalent Area	0.25m² (for IGV 0505 variant)
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Certificated Product Performance – SGV Synthetic Gas Vent

The SGV Synthetic Gas Pressure Relief Vents certificated provide the following performance when tested generally in accordance with BS EN 1634-1: 2014:

Dual Flow Orientation	180 minutes integrity
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Product Performance* – SGV Inert Gas Vent

From recorded pressure drops across an SGV 0505 at a range of airflows following the test methods defined in BS EN 13030, the equivalent area is calculated, in accordance with EN 13141-1, to be as follows:

Equivalent Area	0.22m² (for SGV 0505 variant)
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*see note 4 overpage

CERTIFICATE OF APPROVAL

No ME5073

Information

1. It is the responsibility of the user of the information contained within this document to establish appropriate safety and health practices and determine the applicability of regulatory requirements prior to use of the product
2. The performance stated herein relates only to the specimens of the product in the form in which they were tested within rigid masonry walls.
3. This certification relates to on-going production. The product and/or its immediate packaging shall be identified with the certification mark including the certification number, and the manufacturer's name and the product name or code reference.
4. Product performance relating to equivalent area has been supplied by BSRIA (Building Services Research and Information Association) UK, taken from dynamic tests carried out in accordance with test protocols and calculation methods in BS EN 13030 and EN 13141-1, These results are presented for product information only rather than being certificated performance indicators.