



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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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

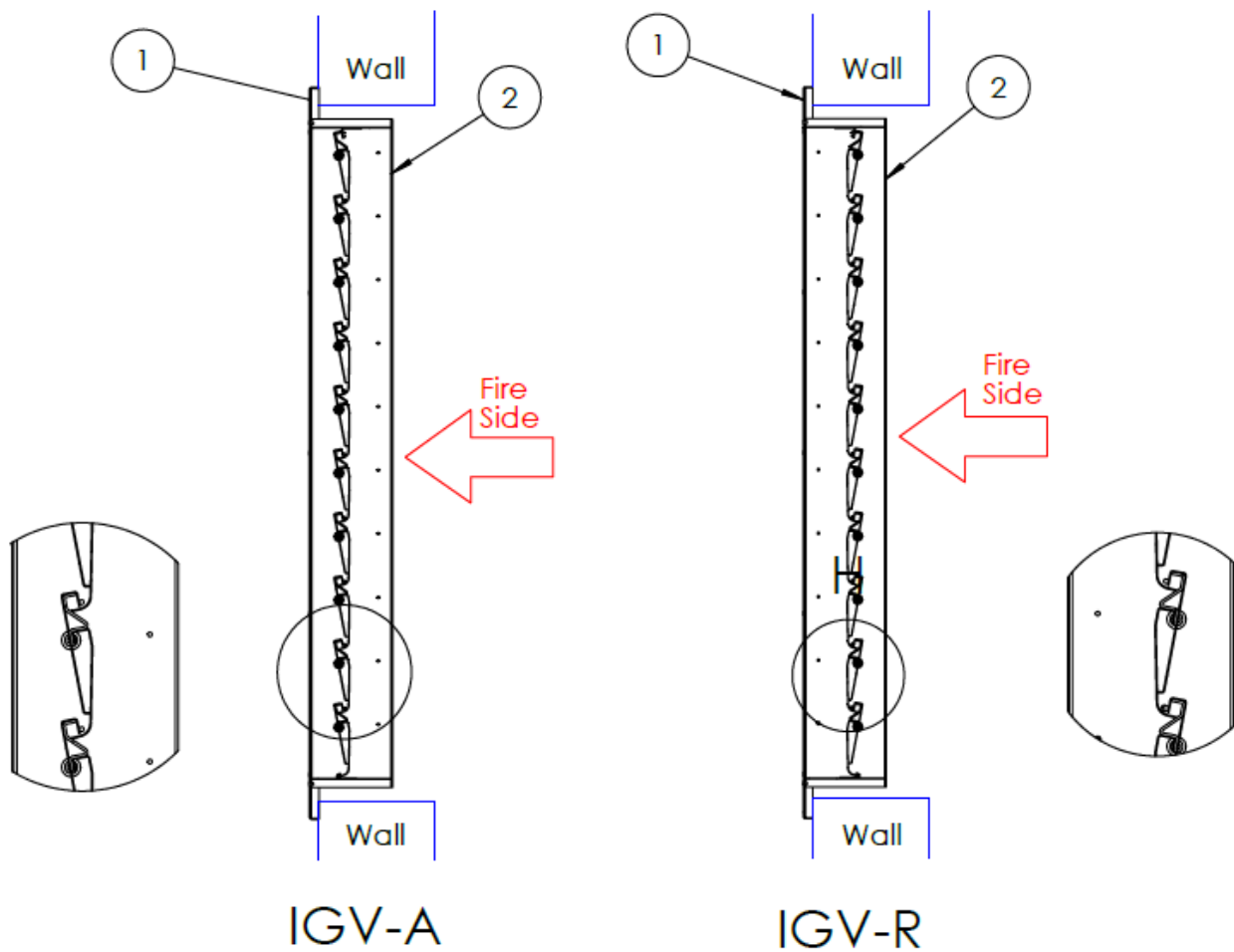
Product Description

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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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:

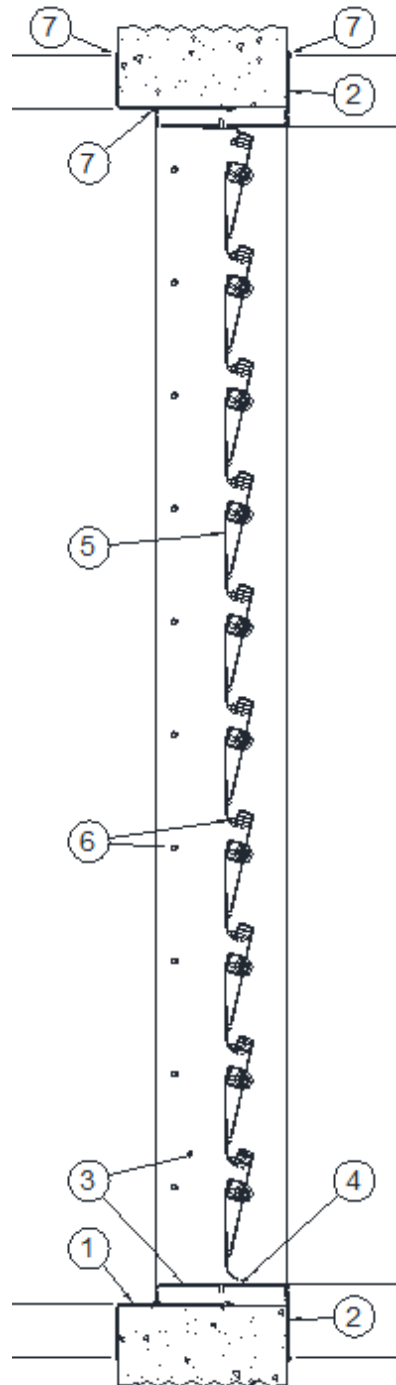
- SGV 0301 (nominal size of 300mm x 100mm)
- SGV 0501 (nominal size of 500mm x 100mm)
- SGV 0303 (nominal size of 300mm x 300mm)
- SGV 0505 (nominal size of 500mm x 500mm)
- SGV 0707 (nominal size of 700mm x 700mm)
- SGV 1010 (nominal size of 1000mm x 1000mm)

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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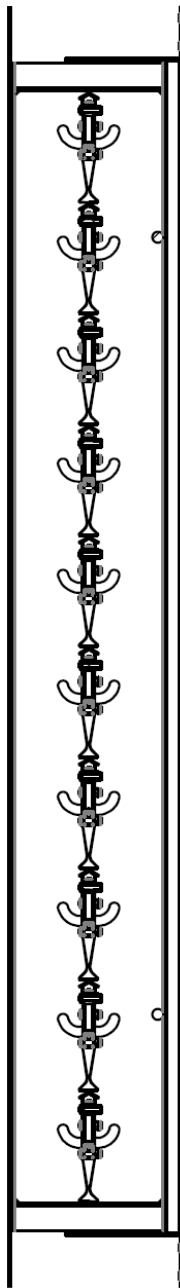
Stainless Steel Option:

<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

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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.