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
Reissued: 30th July 2020
Valid to: 29th July 2025

CERTIFICATE OF APPROVAL
No ME5073

Approved Manufacturing Location

Apreco Limited
Unit 2
Bishops Frome Technology Park
Bishops Frome
Worcester
WR6 5AY
United Kingdom

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 Inert 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 and 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 Zintec 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 reversible flanges allowing installers to alter the flow direction configuration on site, whilst keeping the units housed within the wall avoiding protrusions and achieving a fire performance as detailed within this certificate.

Issued: 29th June 2015
Reissued: 30th July 2020
Valid to: 29th July 2025

CERTIFICATE OF APPROVAL
No ME5073

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 0705 (nominal size of 700mm x 700mm)
- SGV 1010 (nominal size of 1000mm x 1000mm)

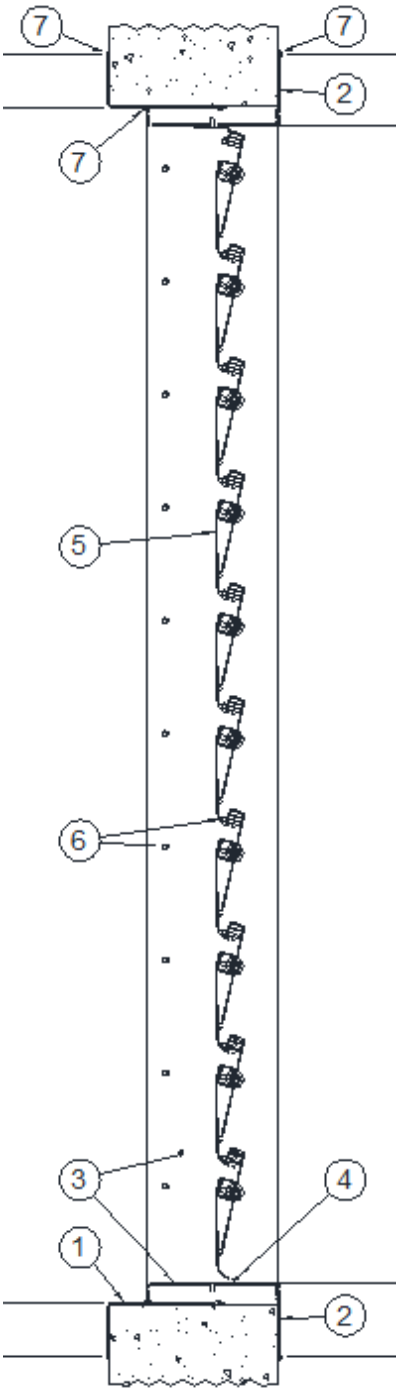
Alternative vent sizes are available in 100mm increments from nominal 100mm to 1000mm.

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.

Issued: 29th June 2015
Reissued: 30th July 2020
Valid to: 29th July 2025

CERTIFICATE OF APPROVAL
No ME5073

The IGV Inert Gas Vent products are described below:



Issued: 29th June 2015
Reissued: 30th July 2020
Valid to: 29th July 2025

CERTIFICATE OF APPROVAL
No ME5073

Powder Coated Zintec Steel Option:

Item		Description
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

Issued: 29th June 2015
Reissued: 30th July 2020
Valid to: 29th July 2025

CERTIFICATE OF APPROVAL
No ME5073

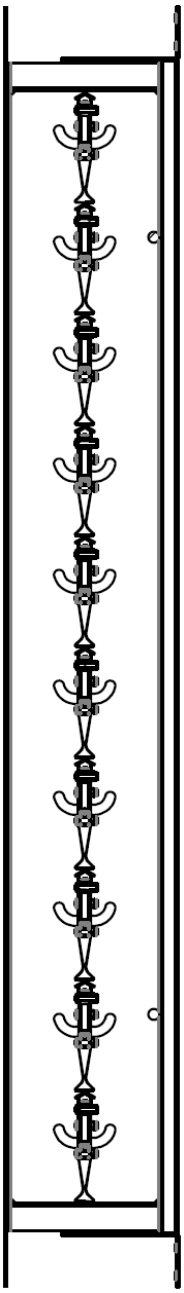
Stainless Steel Option:

Item		Description
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

Issued: 29th June 2015
Reissued: 30th July 2020
Valid to: 29th July 2025

CERTIFICATE OF APPROVAL
No ME5073

The SGV Synthetic Gas Vent products are described below:



Issued: 29th June 2015
Reissued: 30th July 2020
Valid to: 29th July 2025

CERTIFICATE OF APPROVAL
No ME5073

Item		Description
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

Issued: 29th June 2015
Reissued: 30th July 2020
Valid to: 29th July 2025

CERTIFICATE OF APPROVAL
No ME5073

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 are is calculated, in accordance with EN 13141-1, to be as follows:

Equivalent Area	**0.25m^2 (for IGV 0505 variant)**

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**

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 are is calculated, in accordance with EN 13141-1, to be as follows:

Equivalent Area	**0.22m^2 (for SGV 0505 variant)**

***see note 4 overpage**

Issued: 29th June 2015
Reissued: 30th July 2020
Valid to: 29th July 2025

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.

Issued: 29th June 2015
Reissued: 30th July 2020
Valid to: 29th July 2025