

VOKES

Filtration Technology

Veeglass & Synthetic Media

bulk rolls, pads and reloadable frames

INTRODUCTION

VOKES Veeglass and Synthetic filter media are available as either bulk rolls, or pads which are suitable for use in either VOKES reloadable frames or cut to customer requirements. Both types of media are manufactured in a range of efficiencies (EU2 to EU5) and dust holding capacities, with fibre densities that give varying pressure drops for any particular air flow capacity.

The VOKES range of filter media has been specially developed for the air intakes and extracts of HVAC units and can be used in selected mechanical and process applications. This includes media suitable for use in paint spray booths and kitchen hoods.

VEEGLASS FILTER MEDIA

Manufactured as a continuous glass filament, VOKES Veeglass was developed to provide a highly stable air filter media with an EU3 filtration rating. It has multi-stage filtration characteristics, with an open structure on the upstream face, graduating in density to an integral laminate backing on the downstream side.

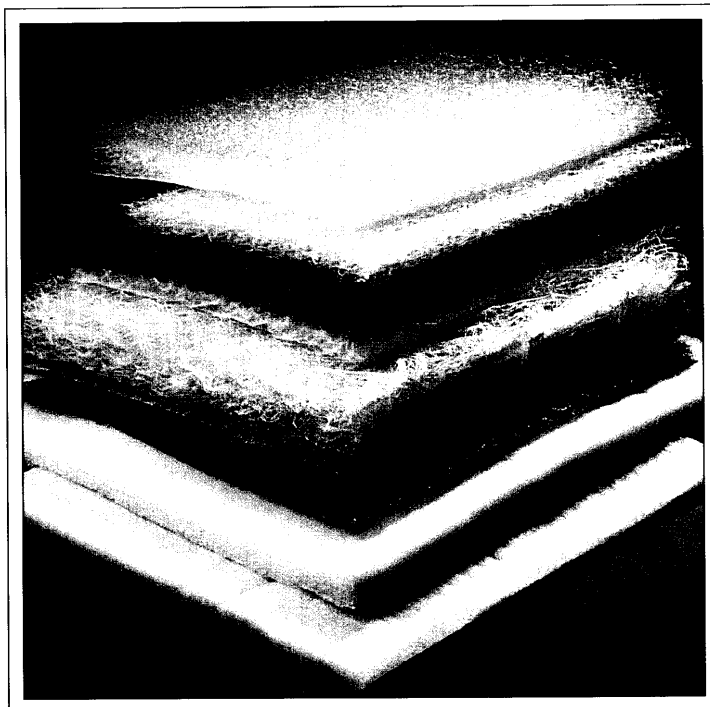
The open structure of the upstream face discourages surface loading and promotes depth filtration, ensuring a high dust holding capacity and minimising resistance to air flow. The denser backing provides fine filtration, while minimising the carry-over of media fibres and collected dirt. Veeglass media will not absorb moisture, has excellent water stripping properties and is not conducive to supporting mould, growths or other infestations.

SYNTHETIC FILTER MEDIA

Specially developed for air filtration, VOKES Synthetic media consists of 100% polyester fibres, which are thermally bonded for optimum filtration efficiency and to avoid fibre shedding. There is a comprehensive range of efficiencies (EU2 - EU5) and thicknesses, including disposable filter media and media that can be washed and re-used. The range includes special products such as spray booth air inlet filter media.

FIRE RESISTANCE

Selected filter media from the VOKES range has been tested for fire resistance and complies with the requirements of either DIN53438 Pt.3 or BS5588 Pt.9. For full details see RANGE.



PAINT STOP & SPRAY BOOTH MEDIA

The need to ensure that only high quality filter media is fitted in paint spray booths is not just a matter of meeting health and pollution regulations. High standards of air intake and extract filtration helps to guarantee the quality of the paint finish, by ensuring that only clean air is drawn into the booth and paint over spray is not drawn back into the system.

The absence of good air extract filtration will result in the accumulation of dried paint deposits in the exhaust ducts, which are a serious fire hazard and can reduce ventilation levels by fouling the exhaust fans. Furthermore, dried paint from the exhaust can be drawn back into the air intake system, blocking the air filters or spoiling the paint finish if filters are not fitted. To meet these requirements and to ensure the safe and efficient operation of spray booths, VOKES provides the following media:

Paint Stop – VOKES Paint Stop is a graduated density glass media, specially developed to capture paint overspray and prevent it from being discharged into the atmosphere. It is suitable for the collection of all types of paint overspray, irrespective of the solvent type and including vitreous enamel.

Spray Booth Media – Designed for spray booth air intakes, VOKES has a high grade EU5 rated synthetic filter media with a progressive internal structure. The high efficiency and dust holding capacity of the media is due to the application of a tackifier additive during manufacture and a scrim backing is provided for additional mechanical strength.

Veeglass & Synthetic Filter Media - bulk rolls and pads

VS Range - Synthetic Roll Filter Media

VOKES Part No.	INDUSTRY STANDARD REF. NO.	ROLL DIMENSIONS			APPLICATIONS	EU Grade
		Thickness mm	Width mm	Length m		
VS710/2000	VSB290 HD	17	2000	20	HVAC - Disposable	EU4
VS711/2000	VSB290	20	2000	20	HVAC - Disposable	EU3
VS717/2000	V15-150	10	2000	40	Kitchen Hood - Disposable	EU2
VS718/2000	V395 C	50	2000	20	HVAC - Disposable	EU4
VS719/2000	V395 B	25	2000	20	HVAC - Disposable	EU4
VS724/2000	V350	20	2000	20	HVAC - Washable	EU3
VS726/2000	V15-500	22	2000	20	HVAC - Washable	EU4
VS728/1000	V600 G	22	1000	20	Spray Booth - Disposable	EU5
VS728/2000	V600 G	22	2000	20	Spray Booth - Disposable	EU5

VG & VPS Range - Veeglass and Paintstop Roll Filter Media

VOKES Part No.	ROLL DIMENSIONS			APPLICATIONS	EU Grade
	Thickness mm	Width mm	Length m		
VG1/*	25	*	20	HVAC - Disposable	EU3
VG2/*	50	*	20	HVAC - Disposable	EU3
VG1FR/*	25	*	20	HVAC, Fire Resistant - Disposable	EU3
VG2FR/*	50	*	20	HVAC, Fire Resistant - Disposable	EU3
VPS2/*	50	*	20	Paintstop - Disposable	NA
VPS4/*	100	*	20	Paintstop - Disposable	NA

NOTE - * Width: **VG Filter Media** is available in three standard widths - 610, 1220 and 1830mm eg. VOKES Part No. **VG2/1220** indicates

** FIRE RESISTANT to: (DIN) - DIN 53438 Pt.3 F1, (BS) - BS5588 Pt.9 PASS

ROLL FILTER MEDIA - HOW TO SPECIFY

Synthetic Range (VS)

The first stage of VOKES Part No. defines the media efficiency and thickness, along with the recommended application. This is followed by the roll width in mm, which is normally 2000mm (Spray Booth Media - 1000mm).

Veeglass (VG) & Paintstop Range (VPS)

The first stage of the VOKES Part No. defines the media efficiency and thickness, along with recommended application. This is followed by the roll width in mm, which is either 610, 1220 or 1830mm (as standard) for VG media and within the range 500 to 2000mm for VPS Media.

EXAMPLES

VOKES Part No. VS724/2000 (Ind. Media. No. V350)

VS724/ Synthetic Media, EU3 Grade, 20mm thick, washable, fire resistant (to DIN53438 Pt.3) and suitable for HVAC applications.

2000 Roll Width - 2000mm

VOKES Part No. VG2FR/610

VG2FR/ Veeglass Media, EU3 Grade, 50mm thick, disposable, fire resistant (to BS5588 Pt.9) and suitable for HVAC applications.

610 Roll Width - 610mm

P E R F O R M A N C E					Fire Resistance **	Identification Colour	
Arrestance %	Dust Holding Capacity g/m ²	Face Velocity m/s	Initial Pa	Final Pa		Dirty Side	Clean Side
92%	508	1.5	48	400	Yes (DIN)	Blue	White
88%	345	1.5	41	200	Yes (DIN)	Blue	White
74%	469	1.5	12	200	Yes (DIN)	White	White
93%	558	1.5	58	500	Yes (BS)	White	White
92%	398	1.5	54	500	Yes (BS)	White	White
87%	578	1.5	36	400	Yes (DIN)	White	White
91%	489	1.0	27	400	Yes (DIN)	White	White
95%	365	0.25	24	400	Yes (DIN)	White	White/Scrim
95%	365	0.25	24	400	Yes (DIN)	White	White/Scrim

P E R F O R M A N C E					Fire Resistance **	Identification Colour	
Arrestance %	Dust Holding Capacity g/m ²	Face Velocity m/s	Initial Pa	Final Pa		Dirty Side	Clean Side
82%	800	2.0	22	200	-	Blue	White
82%	1500	2.0	45	250	-	Blue	White
82%	800	2.0	22	200	Yes (BS)	Blue	White
82%	1500	2.0	45	250	Yes (BS)	Blue	White
NA	NA	2.5	35	400	NA	Green	White/Scrim
NA	NA	2.5	50	400	NA	Green	White/Scrim

as a 1220mm wide roll and VPS cut to width within the range 500-2000mm e.g VPS/-

FILTER PADS - HOW TO SPECIFY

The VOKES range of Veeglass, Paintstop and Synthetic media detailed above can be supplied as ready cut pads. They are available in eight standard sizes, suitable for use in VOKES re-loadable frames or on request in other sizes. VOKES supply standard size pads in boxes of 50 units, which can be ordered using the following part number system.

Select the first stage of the VOKES Roll Filter Part No. which gives the required media type, efficiency and thickness, having regard for the recommended application. By reference to the standard range of frame sizes (see back page), add the required pad length and width in mm. Non-standard pads can be ordered in the same way.

EXAMPLES

VOKES Part No. VS718/594/594 (Ind. Media Ref. V395 C)

VS718 Synthetic Media, EU3 Grade, 45mm thick, disposable, fire resistant (to BS5588 Pt.9) and suitable for HVAC applications.

594/594 Pad Dimensions -594x 594mm

VOKES Part No. VG1/399/625

VG1/ Veeglass Media, EU3 Grade, 25mm thick, disposable and suitable for HVAC applications.

399/625 Pad Dimensions - 399 x 625mm

Reloadable Filter Frames

CONSTRUCTION

VOKES reloadable frames are fabricated from mild steel, with a black electro-phoretic paint finish to give excellent corrosion resistance. They are designed for applications with high moisture levels or high air velocities and when used in conjunction with a suitable media are ideal where fire resistance is a requirement.

RANGE

VOKES has a range of eight frames sizes, which are available as either 25mm (1in) or 50mm (2in) deep units. The filter pads are readily located in a deep recess and are held in position against a retaining mesh on the downstream side. VOKES reloadable frames are suitable for use with either VOKES Veeglass or Synthetic filter media.

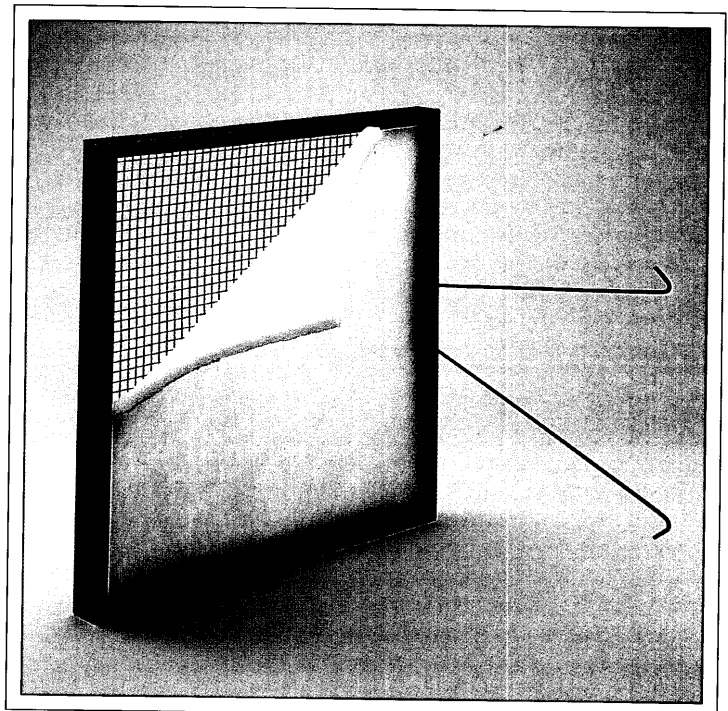
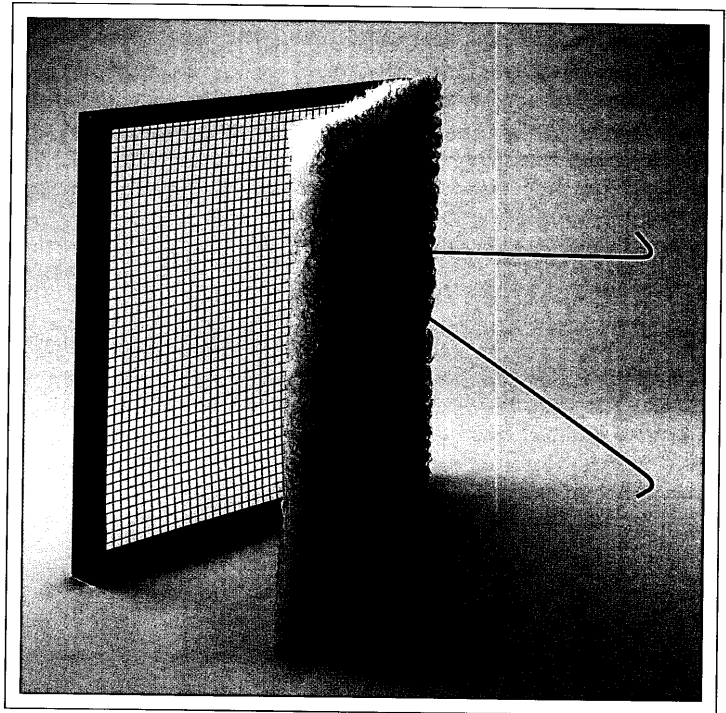
DIMENSIONS

Frame Depth 25mm (1in)

FRAME SIZE Nominal ins	FRAME SIZE Actual mm	FRAME Part No.
16 x 20 x 1	399 x 498 x 25	C97494/23
16 x 25 x 1	399 x 625 x 25	C97494/24
20 x 20 x 1	492 x 492 x 25	C97494/25
20 x 25 x 1	500 x 627 x 25	C97494/26
24 x 24 x 1	594 x 594 x 25	C97494/20
12 x 12 x 1	302 x 302 x 25	C97494/27
24 x 12 x 1	594 x 296 x 25	C97494/22
24 x 20 x 1	594 x 492 x 25	C97494/28

Frame Depth 50mm (2in)

FRAME SIZE Nominal ins	FRAME SIZE Actual mm	FRAME Part No.
16 x 20 x 2	399 x 498 x 50	C97494/6
16 x 25 x 2	399 x 625 x 50	C97494/7
20 x 20 x 2	492 x 492 x 50	C97494/8
20 x 25 x 2	500 x 627 x 50	C97494/9
24 x 24 x 2	594 x 594 x 50	C97494/10
12 x 12 x 2	302 x 302 x 50	C97494/11
24 x 12 x 2	594 x 296 x 50	C97494/12
24 x 20 x 2	594 x 492 x 50	C97494/87



Filtration Technology

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VOKES AIR FILTRATION

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The company reserves the right to change specifications without notice.



Certificate No. FM 1956

700 9707
700 9720
719 3142.
(material Spec)

SPECIFICATION

MEDIA IDENTIFICATION CODE: NGB 290/4

FILTER CLASS according to EUROVENT 4/5: EU3

MEDIA THICKNESS: 20mm ± 10%

MEDIA WEIGHT: 225 g/M2 ± 5%

FILTER PERFORMANCE:

INITIAL PRESSURE LOSS: 41 Pa ± 10% @ 1.5m/sec

GENERAL DESCRIPTION: 100% polyester, thermal bonded, non toxic medium
Dirty side coloured blue

CODE EQUIVALENT:

USAGE: EU 3 Bag filters, pads

REMARKS:

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TITLE: SPECIFICATION
NGB 290/4

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