

# TVS Acoustic Interiors



**TVS GROUP**

SPORT | FITNESS | PLAY | ACOUSTICS

[www.TVS-Group.co.uk](http://www.TVS-Group.co.uk)



TVS Acoustics specialises in offering a wide range of interior Fit Out solutions.

Depending on your budget, or the aesthetic look you seek to achieve, we can provide acoustic products to meet the look and feel you require.

We already have a wide variety of completed projects in our portfolio, from cafés, schools and cinemas to commercial offices across the UK.

Working with architects, consultants and contractors, TVS Acoustics can offer a comprehensive service covering everything from assistance with initial planning, technical advice and product selection, to supply and final installation. Some of our specialist acoustic products for interiors can even be self-installed.



## A note from our Director

Sometimes it can take something as upsetting as watching a female pilot whale carrying her dead newborn calf around the ocean, before concerns about marine pollution kick a nation into action. With just a few minutes of graphic film, Sir David Attenborough and the Blue Planet 2 team did more to raise awareness about how our oceans are being poisoned than years of research and scientific papers could ever do.

The nation's response and subsequent actions are visible in many walks of life. I, for instance, have found my house stacked with hessian shopping bags and metal straws. We have even bought an '80s

classic Sodastream to reduce our plastic bottle waste whilst still satisfying our addiction to sparkling water!

But perhaps the most important Blue Planet effect has been in bringing the environmental message, not just into the home but into the company boardroom. TVS prides itself on actively sourcing and supplying products which, wherever possible, are 100% recycled and 100% recyclable. This is why I am so excited about the launch of our new Care range, which is made from recycled plastic bottles and provides excellent acoustic properties. Oh, and they look pretty great too.

**Patrick Dent**



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## TVS ABSorb Care

**TVS ABSorb Care**, the ultra-versatile acoustic solution that allows you to build beautiful and functional spaces.

Architects and interior designers delight your customers and win more work by designing spaces that improve user well-being, efficiency and creativity. Stand out from the crowd by offering a bespoke acoustic solution using the design flexibility that TVS ABSorb Care provides.

For colour range please see page 7.

Sustainability – made from recycled plastic bottles.

### Technical data

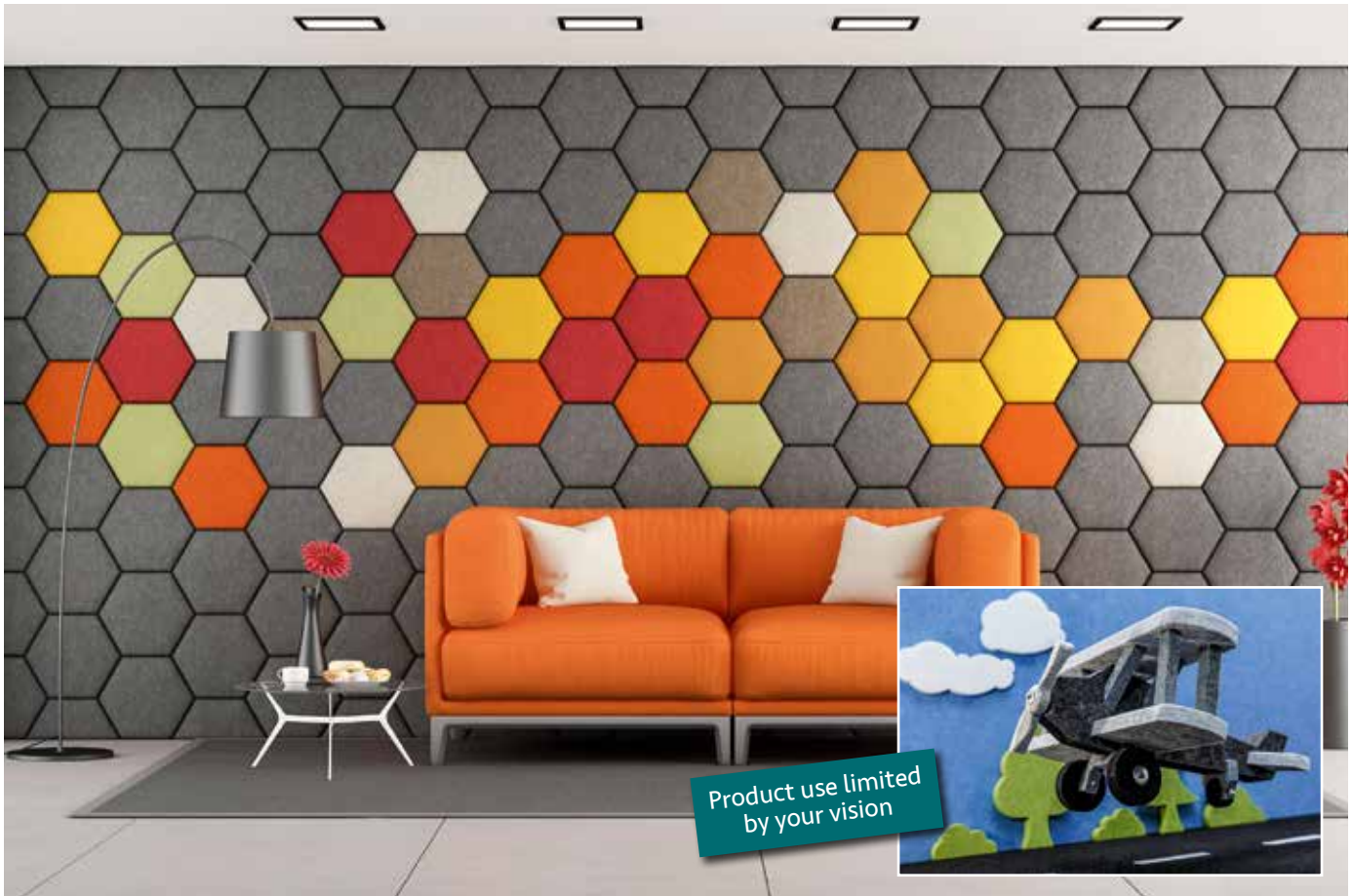
<b>Thickness</b>	12mm – Class D Absorption 24mm – Class A Absorption
<b>Dimensions</b>	2800 x 1225mm
<b>Weight</b>	2.4kg m <sup>2</sup> (±10%) @ 12mm
<b>Fire Specification</b>	EN13501-:2007+A1:2009 B - s1, d0
<b>VOC Emission</b>	<0.02mg/m <sup>2</sup>
<b>OKEO TEX</b>	Standard 100 - Class 1
<b>Recyclable Content</b>	100%
<b>Composition</b>	100% Polyester Fibre (PET)
<b>Formaldehyde Emission</b>	0.00 ug/g



**MADE FROM RECYCLED  
PLASTIC BOTTLES**







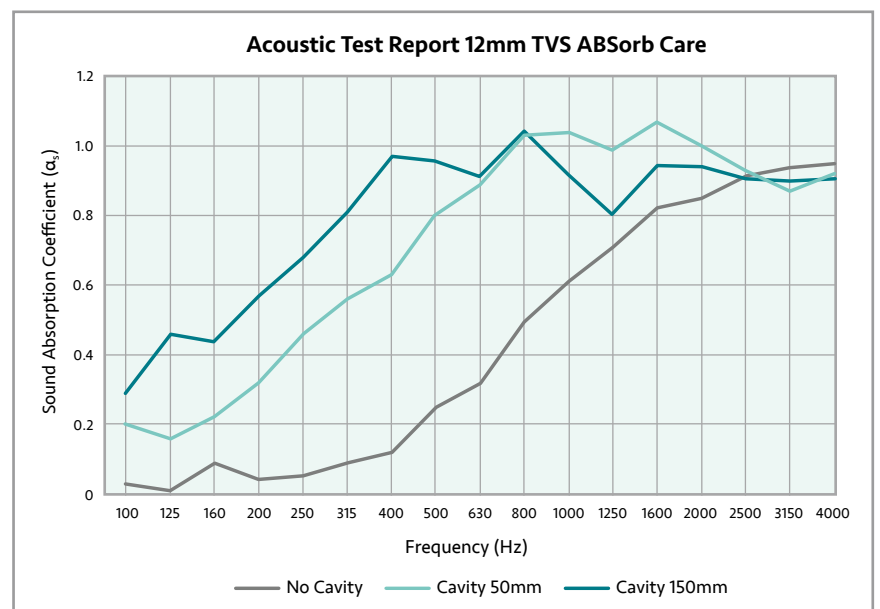
## Product Ideas

Wall Cladding	Whiteboard Frames
Desktops	Privacy Screens
Pin Boards	Desk Dividers
Screens	Phone Hubs
Baffles	Interview Boards
Rafts	Furniture Coverings
Partitions	Suspended Absorbers
Lighting	Modular Designs
Furniture	Visual Aids
Computer Pads	Notice Boards
Wall Panels	Furniture Backing
Ceiling Panels	And much more
Acoustic Art	

## Optional Extras

Self-adhesive Backing • Water Jet Cutting  
Routing/Etching • Laminating • UV Printing

## Acoustic Performance



## Sound absorption values

Frequency (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	$\bar{\alpha}$	NRC
<b>No Cavity</b>	0.03	0.01	0.09	0.04	0.05	0.09	0.12	0.25	0.32	0.49	0.61	0.71	0.82	0.85	0.91	0.94	0.95	0.44	0.45
<b>Cavity 50mm</b>	0.20	0.16	0.22	0.32	0.46	0.56	0.63	0.80	0.89	1.03	1.04	0.99	1.07	1.00	0.93	0.87	0.92	0.81	0.80
<b>Cavity 150mm</b>	0.29	0.46	0.44	0.57	0.68	0.81	0.97	0.96	0.91	1.04	0.92	0.80	0.94	0.94	0.91	0.90	0.91	0.97	0.90

## TVS ABSorb Etch

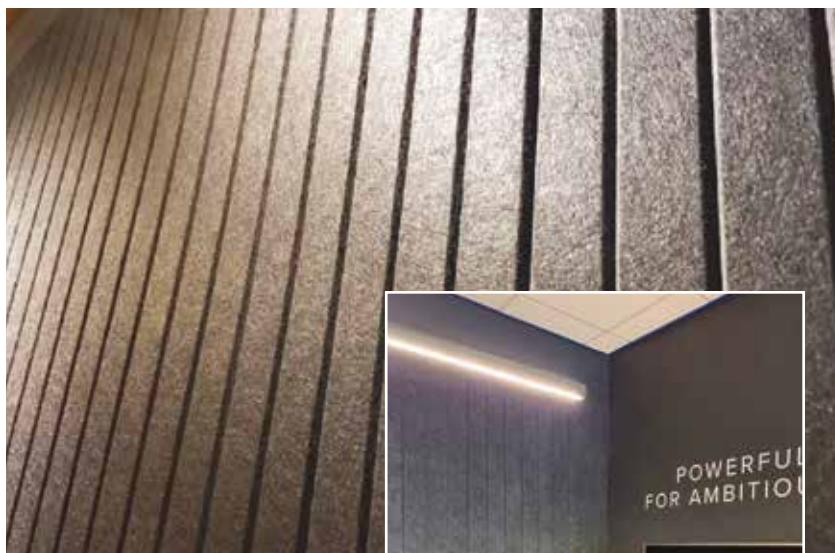
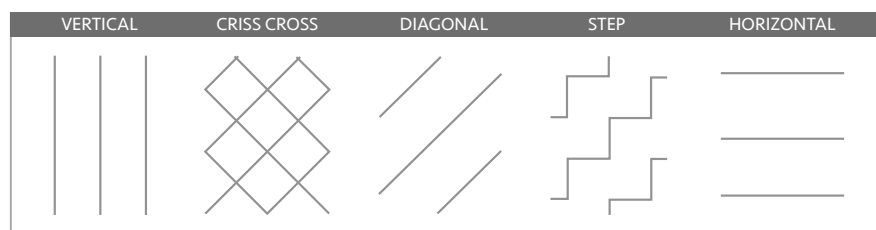
*part of the TVS Care family*

**TVS ABSorb Etch** is a polyester acoustic wall covering combining style, colour and texture. Available in 5 standard patterns, or etched to your custom design, TVS ABSorb Etch is self-adhesive backed for overlaying directly to your chosen surface. The panels are supplied in sheets sized up to 1220mm x 2800mm for seamless floor to ceiling coverage.

For colour range please see page 7.

### Optional Extras

Self-adhesive Backing • Water Jet Cutting  
Laminating • UV Printing • Specialist Tooling



## TVS ABSorb Image

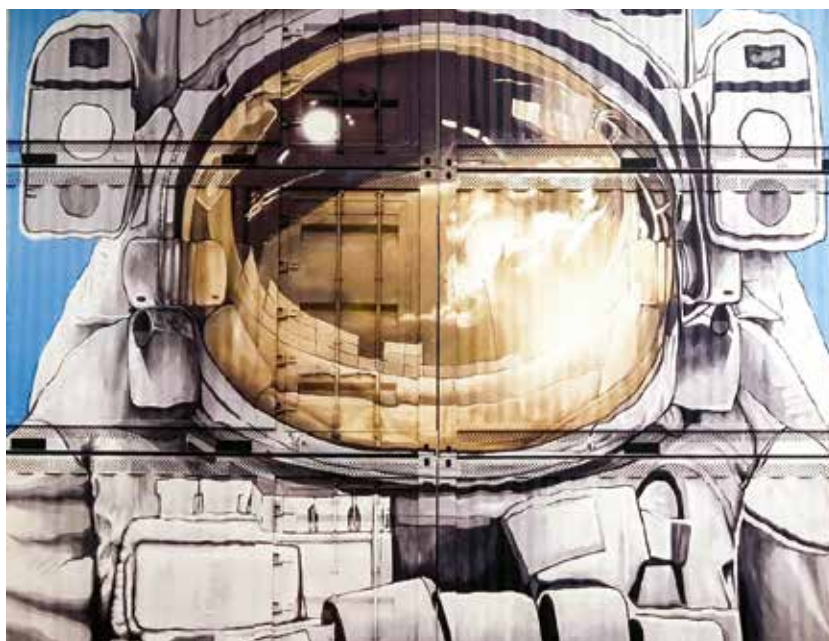
*part of the TVS Care family*

**TVS ABSorb Image** comes with a self-adhesive backing for quick and easy fitting. TVS ABSorb Image helps to improve brand awareness, creativity and user well-being in a wide range of environments. TVS can print any image directly onto our TVS image panels using our in-house flat-bed printer. Designs can be printed onto single panels sized up to 1.5m x 3000mm x 100mm or across multiple panels to maximise wall coverage.

For colour range please see page 7.



MADE FROM RECYCLED  
PLASTIC BOTTLES







## TVS ABSorb Care Family Colour Range





## TVS ABSorb Panel

**TVS ABSorb Panels** provide an aesthetically pleasing solution to control reverberation time and increase the acoustic absorption of any space. Widely used in classrooms, recording studios, offices, cinemas, reception areas and atriums, these panels can provide up to Class A absorption either as a complete wallcovering or as a number of individually manufactured panels.

TVS ABSorb Panels feature a highly absorbent glass fibre core wrapped in an aesthetically pleasing, acoustically transparent fabric. The edges are reinforced to provide a perfect square finish.

Class A acoustic absorption rating can be achieved with our 40mm panel as standard.

### Physical Information

<b>Panel Size</b>	Bespoke Design. Max panel size – 2400 x 1200 x 40mm
<b>Colours</b>	Choice of 80 colours available – Cara & Lucia ranges
<b>Fire Resistance</b>	TVS ABSorb Panel core has been tested and offers Class 0 fire rating to BS476: Part 6 and the fabric facing complies with class 1 to BS476: Part 7 and also complies with BS EN 1021-1 cigarette. (Class 0 fabrics can be supplied on request)
<b>Weight</b>	Our TVS ABSorb Panels weigh in at 2.4kg/m <sup>2</sup> for the 40mm thickness panel. <i>Note: weight is given as an approximation.</i>

### Advantages & Benefits

- ▶ Class A absorption achieved
- ▶ Manufactured to size and shape required
- ▶ Durable and easy to clean
- ▶ Aesthetically pleasing design
- ▶ Complete range of fixing solutions to suit project
- ▶ 80 fabric face finishes available
- ▶ TVS impaling clip and adhesive provide a quick and easy install



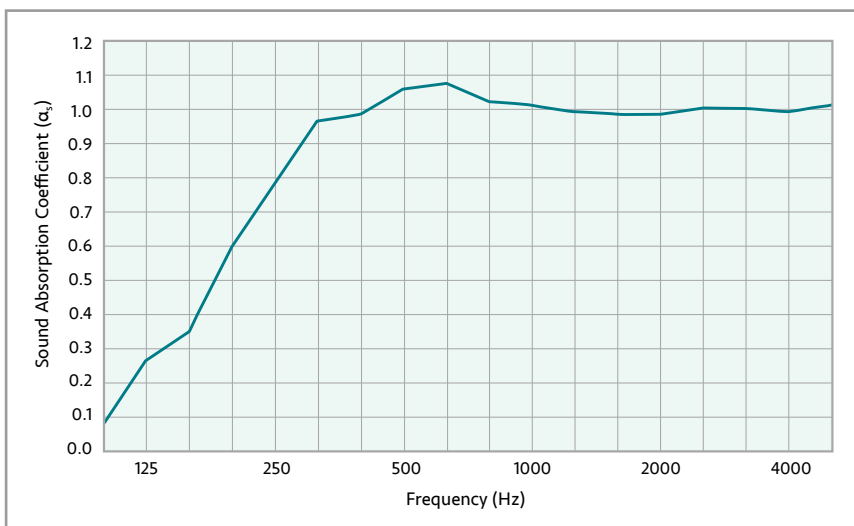
MADE FROM RECYCLED  
GLASS BOTTLES & JARS







## Acoustic Performance



Frequency (Hz)	40mm α <sub>s</sub>	Frequency (Hz)	40mm α <sub>s</sub>
100	0.07	800	1.02
125	0.26	1000	1.01
160	0.35	1250	0.99
200	0.59	1600	0.99
250	0.78	2000	0.99
315	0.97	2500	1.00
400	0.99	3150	1.00
500	1.06	4000	0.99
630	1.08	5000	1.01

ACOUSTIC PERFORMANCE BS EN ISO 354:2003

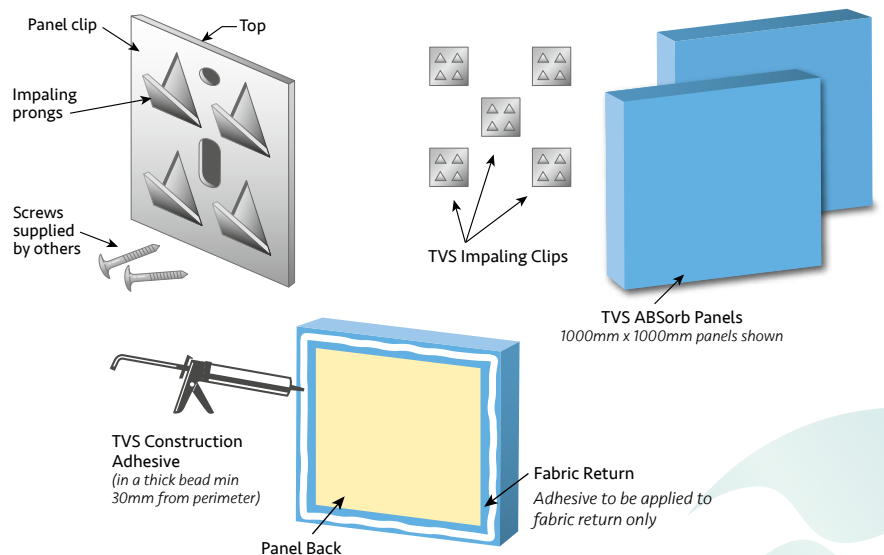
## Installation & Maintenance

A wide variety of installation methods are available depending upon the project requirements. For more information contact the TVS Technical Team who will also be able to advise on the correct maintenance procedure.

### TVS ABSorb Impaling Clip Install

TVS ABSorb Panel bespoke impaling clip install allows for a secure installation of the acoustic wall panels. The panel is simply bonded to the wall by using impaling clips and adhesive.

This method can only be used to achieve Class A if you choose our TVS ABSorb 40mm panel.





## TVS ABSorb Sport

An impact resistant Class A acoustic absorber for use in sports halls, five-a-side pitches, gyms and event centres.

**TVS ABSorb Sport** Panels have undergone extensive impact testing to ensure their suitability for use within sports halls. As one of the only acoustic panels to be impact resistant to DIN 18032-3, their versatility allows them to be installed at low levels in areas where traditional acoustic panels would be susceptible to knocks and damage. Available in a variety of colours that can brighten and add interest to any space.

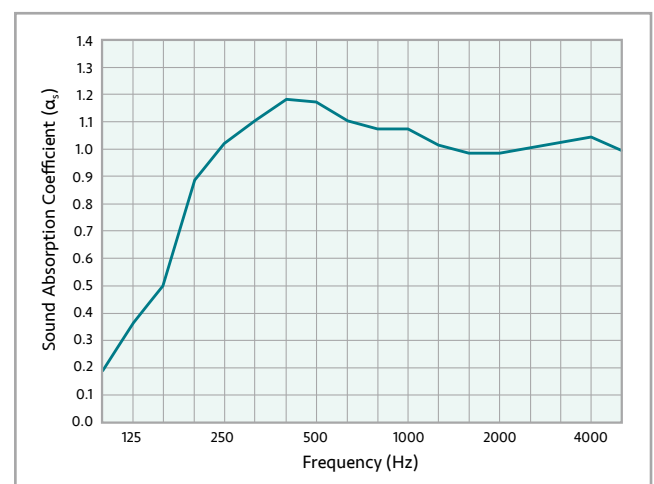
### Physical Information

<b>Panel Size</b>	Bespoke Design. Max panel size – 2400 x 1200 x 40mm
<b>Colours</b>	Choice of 80 colours available – Cara & Lucia ranges
<b>Ball Impact Resistance</b>	Pass (DIN 18032-3)
<b>Fire Resistance</b>	TVS ABSorb Sport core has been tested and offers Class 0 fire rating to BS476: Part 6 and the fabric facing complies with Class 1 to BS476: Part 7 and also complies with BS EN 1021-1 cigarette. (Class 0 fabrics can be supplied on request)
<b>Weight</b>	Our TVS ABSorb Sports Panels weigh in at 4.4kg/m <sup>2</sup> <i>Note: weight is given as an approximation.</i>

### Advantages & Benefits

- Impact resistant to DIN 18032-3
- Class A absorber
- Can be installed at low levels on walls
- Manufactured to size and shape required
- Quick and easy to install
- Specialist mounting kit available

### Acoustic Performance







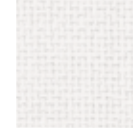



























Data based on a 60mm thick panel.

### Sound absorption values

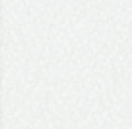







































Frequency (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
<b>Sport panels (α<sub>s</sub>)</b>	0.19	0.36	0.50	0.89	1.03	1.10	1.18	1.17	1.10	1.07	1.07	1.02	0.99	0.99	1.01	1.03	1.05	1.00



## TVS Cara Fabric Colour Range

	Shetland EJ191 LR =		Lomond EJ192 LR =		Clan EJ169 LR = 62.3		Glass EJ004 LR = 46.32		Vit EJ184 LR =		Beltane EJ193 LR =		Hillswick EJ190 LR =		Chaucer EJ172 LR = 25.94
	Denny EJ196 LR =		Fair Isle EJ186 LR =		Maree EJ195 LR =		Spray EJ033 LR = 16.46		Ronay EJ189 LR =		Easdale EJ188 LR =		Staffa EJ185 LR =		Austen EJ173 LR = 39.8
	Portland EJ016 LR = 14.26		Lora EJ187 LR =		Dolphin EJ105 LR = 35.65		Carron EJ015 LR = 8.67		Lerwick EJ194 LR =		Lead EJ104 LR = 18.39		Galilee EJ125 LR = 18.96		Inverness EJ175 LR = 31.48
	Lossie EJ197 LR =		Merrick EJ048 LR = 12.23		Cluanie EJ180 LR = 4.13		Adriatic EJ154 LR = 8.79		Tummel EJ038 LR = 6.65		Pitlochry EJ076 LR = 8.59		Walton EJ011 LR = 3.46		Black EJ138 LR = 1.65

## TVS Lucia Fabric Colour Range

	Adobo YB165 LR = 85.8		Oyster YB107 LR = 64.8		Turtle YB098 LR = 39.14		Apple YB096 LR = 37.16		Solano YB088 LR = 36.13		Rum YB086 LR = 38.32		Madura YB156 LR = 43.08		Sandstorm YB302 LR = 22.78
	Reef YB085 LR = 45.6		Aruba YB093 LR = 37.39		Belize YB105 LR = 10.49		Buru YB170 LR = 24.37		Campeche YB301 LR = 27.43		Bridgetown YB102 LR = 11.34		Diablo YB101 LR = 6.99		Jamaica YB027 LR = 7.2
	Calypso YB106 LR = 6.4		Costa YB026 LR = 3.38		Windjammer YB047 LR = 9.02		Taboo YB045 LR = 4.15		Tobago YB030 LR = 3.11		Lobster YB087 LR = 11.55		Tortuga YB168 LR = 30.46		Sombrero YB046 LR = 4.36
	Montserrat YB011 LR = 7.94		Arecibo YB099 LR = 45.31		Bermuda YB084 LR = 32.9		Mauve YB069 LR = 14.64		Tarot YB090 LR = 3.01		Havana YB009 LR = 2.26		Ocean YB100 LR = 3.56		Scuba YB089 LR = 6.37
	Bluebell YB097 LR = 16.91		Martinique YB004 LR = 12.79		Steel YB095 LR = 23.03		Bluefield YB021 LR = 8.27		Marianna YB157 LR = 33.48		Tequila YB038 LR = 14.56		Slip YB094 LR = 27.94		Blizzard YB108 LR = 12.23



## TVS ABSorb Baffle

*part of the TVS Care family*

Discover the limitless design flexibility of **TVS ABSorb Baffle**; a lightweight and semi-rigid panel that has sound absorbing properties. Designed with solid colour throughout, TVS ABSorb Baffle has the potential to be used in a large array of spatial design and interior solutions.

More than just a traditional interior acoustic panel, the TVS ABSorb Baffle can be employed as a base material for creative solutions where design and aesthetics are important.

TVS ABSorb Baffle is made from 100% polyester and manufactured in the UK. Containing a minimum of 65% post-consumer recycled material, TVS ABSorb Baffle is completely safe, non-toxic, non-allergenic and non-irritant.

*Installed with Gripple Mini Helix.*



### Key Features & Benefits

- ▶ Design flexibility without the need for edging or capping; created with solid colour throughout
- ▶ Excellent acoustic performance
- ▶ Available in a wide range of colours
- ▶ Custom colour printing available
- ▶ Limitless branding and design possibilities with in-house custom cutting
- ▶ Lightweight and easy to handle
- ▶ Made from 100% polyester fibre without chemical binders and certified low VOC
- ▶ Manufactured using a minimum of 65% post-consumer recycled material
- ▶ Highly durable providing long-term stability and performance
- ▶ Safe, non-toxic, non-irritant and non-allergenic
- ▶ Manufactured under ISO 9001 and ISO 14001 accredited Quality and Environmental System
- ▶ Refer to page 7 for colour options

**MADE FROM RECYCLED  
PLASTIC BOTTLES**

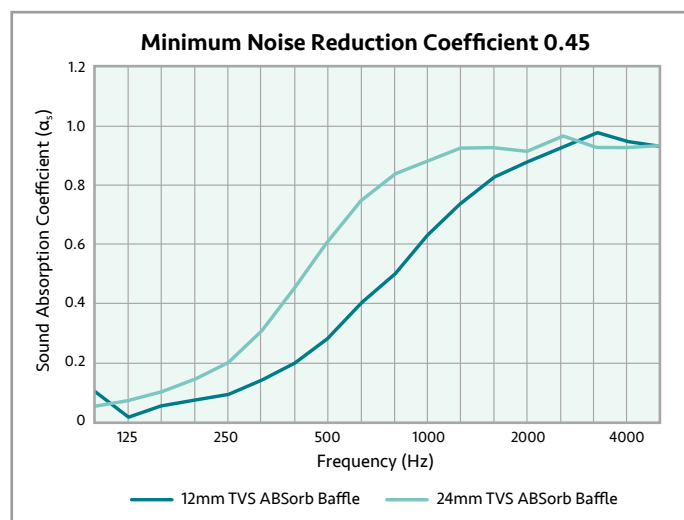






## Acoustic Performance

TVS ABSorb Baffle is specifically designed to reduce and control reverberated (echo) noise in building interiors.



## Physical Information

<b>Composition</b>	100% Polyester Fibre (PET)
<b>Colours</b>	Colour range available on request
<b>Panel Dimensions</b>	1200mm x 300mm or 1200mm x 600mm Other sizes available on request
<b>Thickness</b>	12mm (+/- 6%) 24mm (+/- 6%)
<b>Weight</b>	2400gsm (+/- 10%) 4800gsm (+/- 10%)
<b>Fire Rating</b>	Fire rating ISO 9705: Classification: Group 1-S, AS ISO 9705 - 2003 Classification: Group 1, EN13501-1:2007+A1:2009: B - s2, d2
<b>Density</b>	200kg/m <sup>3</sup>
<b>Sound Absorption</b>	12mm: Class D, NRC 0.45 – with 24mm air gap: Class C, NRC 0.70 24mm: Class D, NRC 0.65 – with 24mm air gap: Class C, NRC 0.80

## Sound absorption values

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
<b>12mm TVS ABSorb Baffle (α<sub>s</sub>)</b>	0.05	0.10	0.30	0.65	0.90	0.95	0.45
<b>24mm TVS ABSorb Baffle (α<sub>s</sub>)</b>	0.10	0.25	0.60	0.90	0.95	0.95	0.65

12mm TVS ABSorb Baffles at 300mm depth and placed at 100mm centres achieve Class A absorption (Class C at 300mm centres).

24mm TVS ABSorb Baffles at 300mm depth and placed at 200mm centres achieve Class A absorption (Class B at 400mm centres).



## TVS ABSorb Design

*part of the TVS Care family*

We have taken the traditional hanging raft and improved both the technical performance and design impact. Our designs defuse sound energy throughout the absorber. An excellent solution for open plan workspaces, boardrooms, rest areas and restaurants.

For colour range please see page 7.

### Technical data

<b>Thickness</b>	12mm
<b>Fire Specification</b>	EN13501:-2007+A1:2009
<b>VOC Emission</b>	<0.02mg/m <sup>2</sup>
<b>OKEO TEX</b>	Standard 100 - Class 1
<b>Recyclable Content</b>	100%
<b>Composition</b>	100% Polyester Fibre (PET)
<b>Formaldehyde Emission</b>	0.00 ug/g

### Optional Processing Methods

Custom Size • CNC Etching • UV Printing  
Dual Colour • 24mm Option



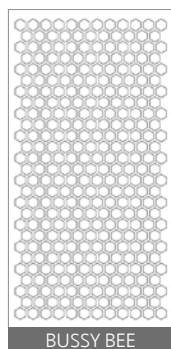




## TVS ABSorb Veils

part of the TVS Care family

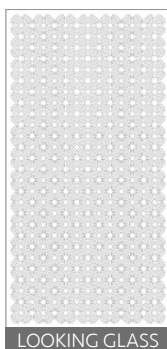
A lightweight, semi-rigid, decorative acoustic screen. Manufactured with solid colour throughout. Typically used to improve a room's acoustic performance and user privacy. TVS ABSorb Veils can be used creatively to enhance room design and user well-being.



BUSSY BEE



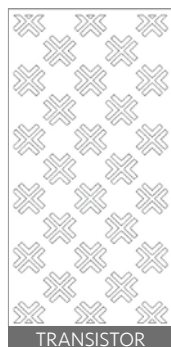
MIRROR



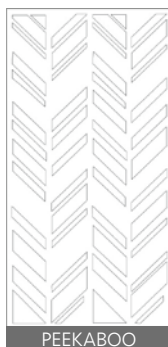
LOOKING GLASS



ZOLTAN



TRANSISTOR



PEEKABOO



ENCOUNTER



AUTUMN

### Options Available

Description	T	MOQ
Bussy Bee ABSorb Veil 2400 x 1200 + Hanging Kit	12mm	1
Mirror ABSorb Veil 2400 x 1200 + Hanging Kit	12mm	1
Looking Glass ABSorb Veil 2400 x 1200 + Hanging Kit	12mm	1
Zoltan ABSorb Veil 2400 x 1200 + Hanging Kit	12mm	1
Transistor ABSorb Veil 2400 x 1200 + Hanging Kit	12mm	1
Peekaboo ABSorb Veil 2400 x 1200 + Hanging Kit	12mm	1
Encounter ABSorb Veil 2400 x 1200 + Hanging Kit	12mm	1
Autumn Glass ABSorb Veil 2400 x 1200 + Hanging Kit	12mm	1

Sizes and shapes fully customisable\*

### Optional Processing Methods

- Custom Shapes
- CNC Etching
- UV Printing
- 24mm Screens
- Dual Colour

YOUR  
DESIGN  
HERE

CUSTOM

MADE FROM RECYCLED  
PLASTIC BOTTLES





MADE FROM RECYCLED  
GLASS BOTTLES & JARS



## TVS ABSorb Raft

**TVS ABSorb Rafts** are innovative, frameless acoustic rafts which offer new opportunities for improving acoustics while bringing a whole new aesthetic to a room.

Designed with practicality in mind, these art deco-inspired rafts will give you peace of mind while adding colour, texture and a design feature to any environment.

### What is TVS ABSorb Raft?

TVS ABSorb Rafts are designed to absorb sound and enable you to achieve the optimum level of acoustic comfort, prevent echo and reverberation and ensure enhanced speech intelligibility.

The rafts can be used in many types of environments such as offices, schools, hospitals, restaurants, retail and leisure.

Our TVS ABSorb Rafts are available in a wide variety of shapes and sizes, including custom shapes. The 40mm thick panels are manufactured in a range of fabric colours giving a flawless finish. The fabric is bonded to the face and wrapped around all edges. Alternatively our rafts can be covered with your own unique high resolution images for a personal touch.



TVS ABSorb Rafts provide acoustic treatment to areas using thermal mass construction by enabling the air to flow freely in the room.

### Technical & Acoustic Performance

TVS ABSorb Rafts are designed to absorb sound from the front and the back surfaces, which enables them to achieve the highest Class A performance in sound absorption.

### Acoustic Performance

**Sound absorption values – TVS ABSorb Raft 40mm Thick (with 100mm suspension)**

Frequency (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
<b>TVS ABSorb Raft (<math>\alpha_s</math>)</b>	0.23	0.39	0.51	0.79	0.91	1.03	1.11	1.13	1.04	1.05	1.05	1.00	1.00	0.99	1.01	1.00	1.00	1.02





## Physical Information

<b>Maximum Size</b>	2400mm x 1200mm x 40mm
<b>Colours</b>	Choice of 80 colours available – Cara & Lucia ranges
<b>Weight</b>	Our TVS ABSorb Raft panels weigh in at 3kg/m <sup>2</sup>
<b>Fire Resistance</b>	TVS ABSorb Raft core board has been tested and offers Class 0 fire rating to BS476: Part 6. Fabric facing complies with Class 1 to BS476: Part 7. Class 0 fabrics can be supplied on request
<b>Shapes</b>	TVS ABSorb Raft panels are available in various shapes and sizes, including custom shapes



## Installation

TVS ABSorb Rafts are quick and easy to install and don't require the skills of a specialist fitter. The acoustic rafts are simply suspended by steel cables from the soffit by means of special spiral hooks, which are fitted into the reverse of the raft by means of clockwise rotation.

Height level adjustment can be carried out by manipulating the length of each cable to suit when it is inserted into the eyelet hook. TVS ABSorb Rafts can be set at an angle if required to increase design and aesthetic properties.

The spiral hooks should be placed approx. 200mm in from the edge of the TVS ABSorb Rafts. For angled installations, we recommend the largest panels to be no more than 600mm x 600mm.



*Installed with Gripple Helix.*

## Number of hanging kits needed

Size	No. of kits needed
1200 x 600mm	4
1200 x 1200mm	4
2400 x 1200mm	6



## TVS ABSorb Cube

**TVS ABSorb Cubes** are excellent acoustic absorbers, providing a unique and attractive solution to reduce reverberation time – perfect for use within areas with limited available wall space and particularly useful within large, high ceilinged rooms such as a gymnasium, swimming pools and event centres. These lightweight cubes offer excellent broadband sound absorption and can be easily installed between existing services. They are available in a variety of colours and patterns and can brighten and add interest to any space.

TVS ABSorb Cubes are created from Class 0 foam covered in a zipped, removable fabric cover. Available as a 400mm cube, they are easily suspended from the ceiling. With a variety of colours available and the ability to suspend the cubes at different heights, an infinite number of patterns and visual appearances are possible.

### Acoustic Performance

**Sound absorption values (% absorption per cube)**

Frequency (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
<b>400mm Cubes (<math>\alpha_s</math>)</b>	0.14	0.27	0.42	0.66	0.81	0.86	1.03	1.04	1.06	1.06	1.07	1.03	1.02	0.99	0.97	0.97	0.93	0.95

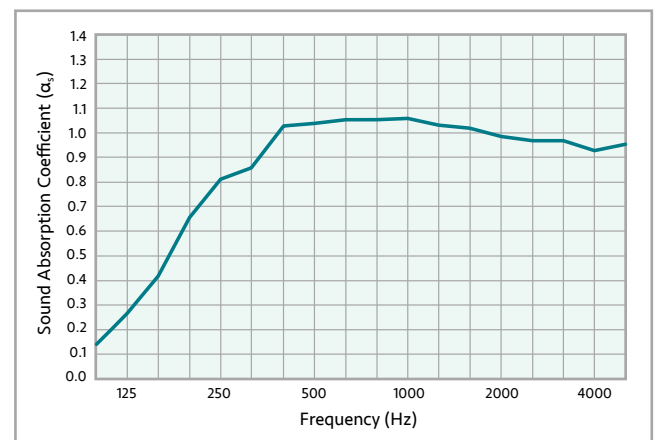


### Advantages & Benefits

- ▶ Excellent broadband sound absorption
- ▶ Perfect for sports halls, exhibition spaces, lecture theatres, factories, etc
- ▶ Fibre free
- ▶ Durable and impact resistant
- ▶ Lightweight
- ▶ Easily installed between existing services

### Physical Information

<b>Standard Cube Size</b>	400mm x 400mm x 400mm (other sizes available on request)
<b>Colours</b>	White, Blue, Green, Red, Orange, Golden Yellow (other colours available on request)







## Case Study – Barton Grange Garden Centre

TVS ABSorb Foam Panel 40mm

### Project Objective

TVS Group was tasked with helping to reduce the noise in a very busy café within Barton Grange Garden Centre. Working closely with the design team, TVS assisted with selecting the right product both acoustically and visually. To make sure business was not affected the whole project was completed outside of business hours.

The client was delighted with the end product and has noticed a big improvement in reducing the noise levels within the café since the install.

### Product

TVS ABSorb Foam Panel 40mm  
Supply and Install

### Special Features

- ▶ Class A absorber
- ▶ Quick & easy installation
- ▶ No maintenance
- ▶ Hidden fitting
- ▶ Lightweight







Lancaster University Library

## TVS Metal Range

TVS Acoustics can now offer a metal baffle ceiling system manufactured in easily removable sections to allow for access into the void area.

- ▶ Manufactured from zinc coated steel or aluminium with plain or perforated options
- ▶ Perforated baffles can be supplied with black foam acoustic inserts for a high degree of absorption
- ▶ Baffles are available with end caps as required
- ▶ Available in a range of widths, heights and lengths
- ▶ Baffles are powder coated to RAL 9010 as standard
- ▶ Also available in woodgrain effect finishes

These products look stunning when installed and can offer cost savings compared to others in the market.



Wilton Centre



Wilton Centre

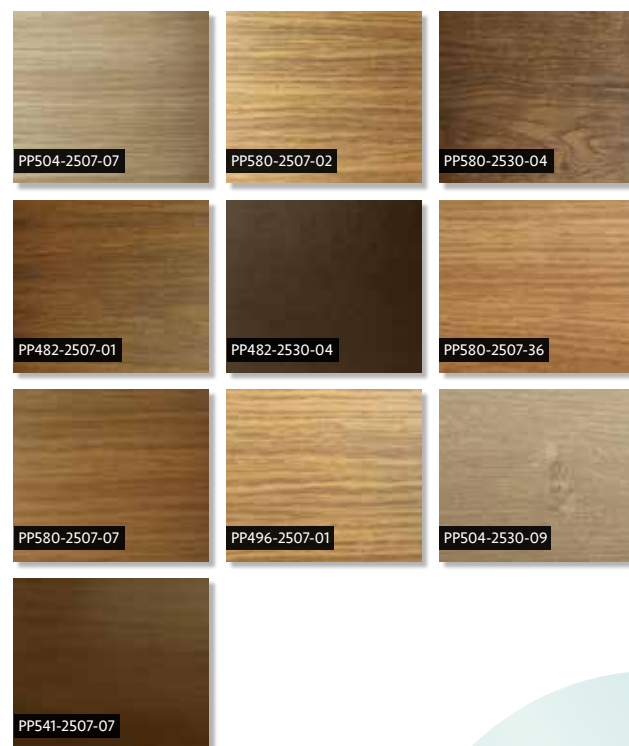


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### Wood effect finishes





When creating an acoustic ceiling, the airborne and impact sound performance levels are dictated by the mass of the ceiling, the depth of the void (along with whether there is any mineral wool within that void), and the method of how that ceiling is suspended.

The performance of any acoustic hanger is based upon their natural frequency, which is a product of the stiffness of their resilient element and the mass which is suspended from them. As such, to properly specify a correct mount, the TVS engineers will need to know the desired spacings of the supports along with the mass of the ceiling and all other services that may be suspended from them.

The TVS Group has two main families of acoustic hangers, the SH range and the VT range. Whilst the standard product for both families is designed to support a drop rod fixing below and either be direct fixed to the soffit or suspended from a drop rod above, there are a large number of variations designed to connect into a whole host of ceiling and construction types. Please contact our friendly TVS sales team for further information.

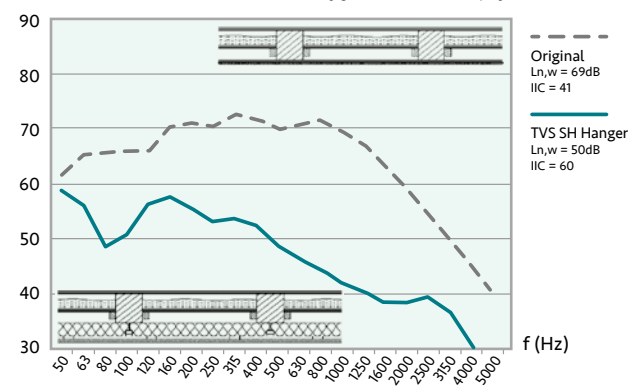
Number of Plasterboard Layers	Weighted Sound Reduction Index, $R_w$	
	Rigidly Suspended Ceiling	Ceiling Supported by TVS SH Hangers
1	71dB	75dB
2	73dB	75dB
3	75dB	77dB

By introducing a resilient method of suspension, it is possible to greatly improve the sound performance of a ceiling in a very simple and economical way. In fact, by utilising our TVS SH hangers, we can achieve similar levels of performance suspending a single board of plasterboard underneath a concrete soffit as you could expect to achieve with 3 layers of plasterboard rigidly fixed.

In fact the improvement in performance that the addition of an acoustic hanger provides is even more clearly seen in a timber structure. Here great improvements can be achieved without adding any additional mass to new or existing timber constructions.

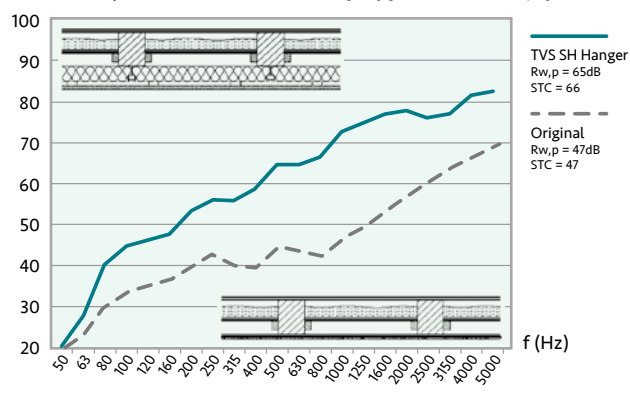
#### Impact noise test on timber structure

Measured levels in the room below (lower figures indicate better performance)



#### Airborne noise test on timber structure

Measured improvement between rooms (higher figures indicate better performance)





# TVS SH Acoustic Hangers

## Natural Frequency down to 8Hz

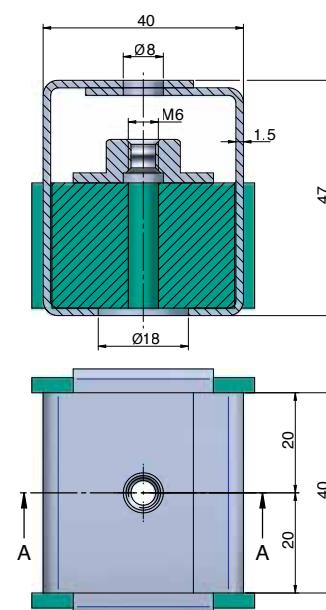
**TVS SH Acoustic Hangers** offer cost-effective solutions for isolation of suspended equipment and ceilings. Utilising the high performance Sylomer® material, these hangers are designed to solve both low and high frequency attenuation problems in a protective space or radiating to surrounding locations. Ideal for suspended ceilings, piping, ductwork, air handling units and HVAC equipment.

TVS hangers are shipped fully assembled and ready for installation in threaded rod suspension systems.

### Features

- Load capacities up to 75kg
- Hanger capacities can be mixed to accommodate equipment with uneven weight distribution
- Steel housing provides durability and stability
- Housing supplied with anti-corrosive zinc-plated coat

Type	Load Capacity (Kg)	Unit Weight (Kg)	Threaded Rod Size
SH30	30	0.104	M6
SH50	50	0.104	M6
SH75	75	0.104	M6



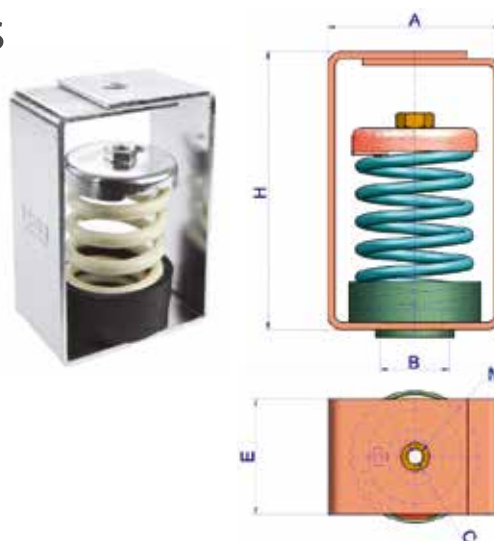
# TVS VT Spring Acoustic Hangers

## Natural Frequency down to 3Hz

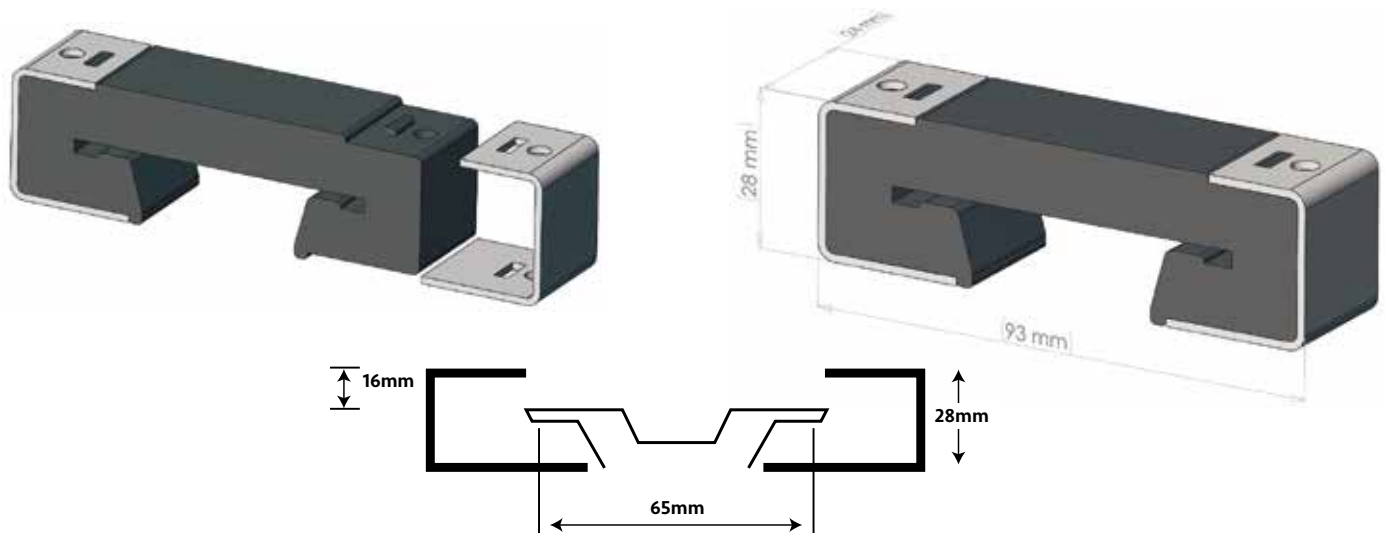
**TVS VT Acoustic Hangers** offer cost-effective, yet very high performing solutions for the isolation of suspended equipment and ceilings. Providing natural frequencies down to 3Hz, these hangers are ideal for use in areas where a high degree of noise attenuation is required.

### Features

- Static deflections up to 25mm
- Coiled spring for low frequency isolation
- Load capacities up to 750kg
- Hanger capacities can be mixed to accommodate equipment with uneven weight distribution
- Steel housing provides durability and stability



Type	Max Permanent Load	A (mm)	Spring Colour	B (mm)	C (mm)	E (mm)	H (mm)	M
VT 25	25	75	BLACK	30	12	50	120	M-8
VT 50	50	75	BLUE	30	12	50	120	M-8
VT 75	75	75	GREY	30	12	50	120	M-8
VT 100	100	75	BEIGE	30	12	50	120	M-8
VT 125	125	75	WHITE	30	12	50	120	M-8
VT 150	150	120	BLUE	30	16	80	160	M-12
VT 200	200	120	WHITE	30	16	80	160	M-12
VT 250	250	120	BLACK	30	16	80	160	M-12
VT 350	350	120	CREAM	30	16	80	160	M-12
VT 500	500	140	LIGHT GREY	30	18	100	180	M-14
VT 750	750	140	GREEN	30	18	100	180	M-14



## TVS RESi Clip

**TVS RESi Clip** is a high performing sound reduction system designed to completely isolate walls and ceilings. Attaching the isolation clip to ceiling joists, timber and metal studs or masonry, simply and easily secures the drywall-furring channel, and decouples the gypsum board from the non-isolated structure. The resulting construction provides a resilient isolation solution for internal walls and ceilings.

### Advantages & Benefits

- ▶ Ceiling and wall solution
- ▶ Low profile (space saving system)
- ▶ Economical, easy to install system
- ▶ Fail-safe metal fixing brackets
- ▶ Attaches easily to: ceiling joists - wall studs - masonry
- ▶ Significant improvement on the use of resilient channel alone (plus ensures the system is not short circuited during installation)
- ▶ Offers a robust and higher performing alternative to traditional wall and ceiling isolation methods
- ▶ Withstands greater loads than standard systems to provide peace of mind for developers and dwellers
- ▶ Weight capacity 30kg maximum per clip, see installation guidelines (other thicknesses of channel are available on request for higher wall and ceiling loads)

### Physical Information

**METAL** – DC04 (DC04 is the Euro name for the UK CR1 equivalent in steel, which is cold rolled)

**Thickness** 2mm

**Protection** Dewatering, solvent-based oil, with self-healing capabilities medium-term for protection.

#### RUBBER

**Compound** EPD411

**Hardness** 45 Shore A Limits: 41-50

**Tensile Strength** Ultimate tensile strength 4.78Mpa  
Elongation @ break 532%

**Compression Set** 22 hours @ 70°C 39%

**Flame Retardancy** Sample self-extinguished immediately after removing from the Bunsen flame.  
Moulding Conditions: 15 minutes @ 16°C



### Technical data

Wall Construction	Control	Section Performance (Rw)
Timber Stud	15mm Soundbloc; 50 x 100mm Timber Stud Wall; 100mm Knauf Insulation; 15mm Soundbloc	50dB
Timber Stud	15mm Soundbloc; 50 x 100mm Timber Stud Wall; 100mm Knauf Insulation; <b>TVS RESi Clips</b> with <b>TVS RESi Channel</b> ; 15mm Soundbloc	57dB
Timber Stud	15mm Soundbloc; 50 x 100mm Timber Stud Wall; 100mm Knauf Insulation; <b>TVS RESi Clips</b> with <b>TVS RESi Channel</b> ; 2 x 15mm Soundbloc	60dB



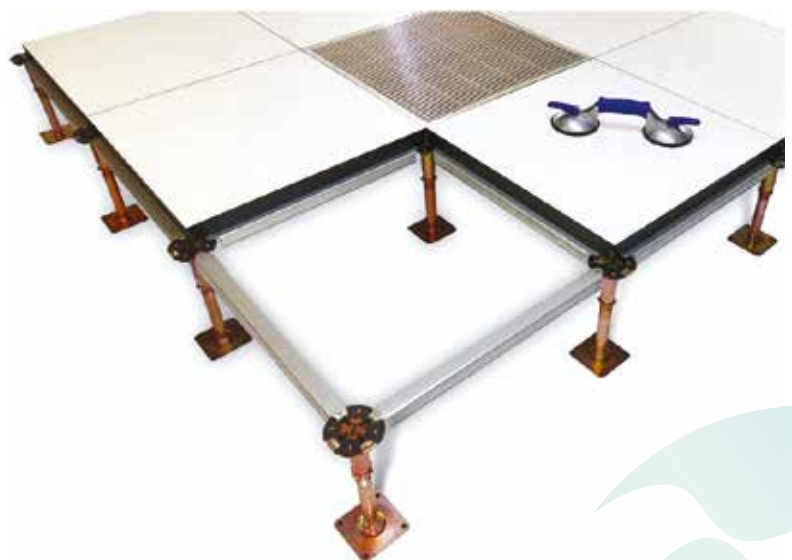


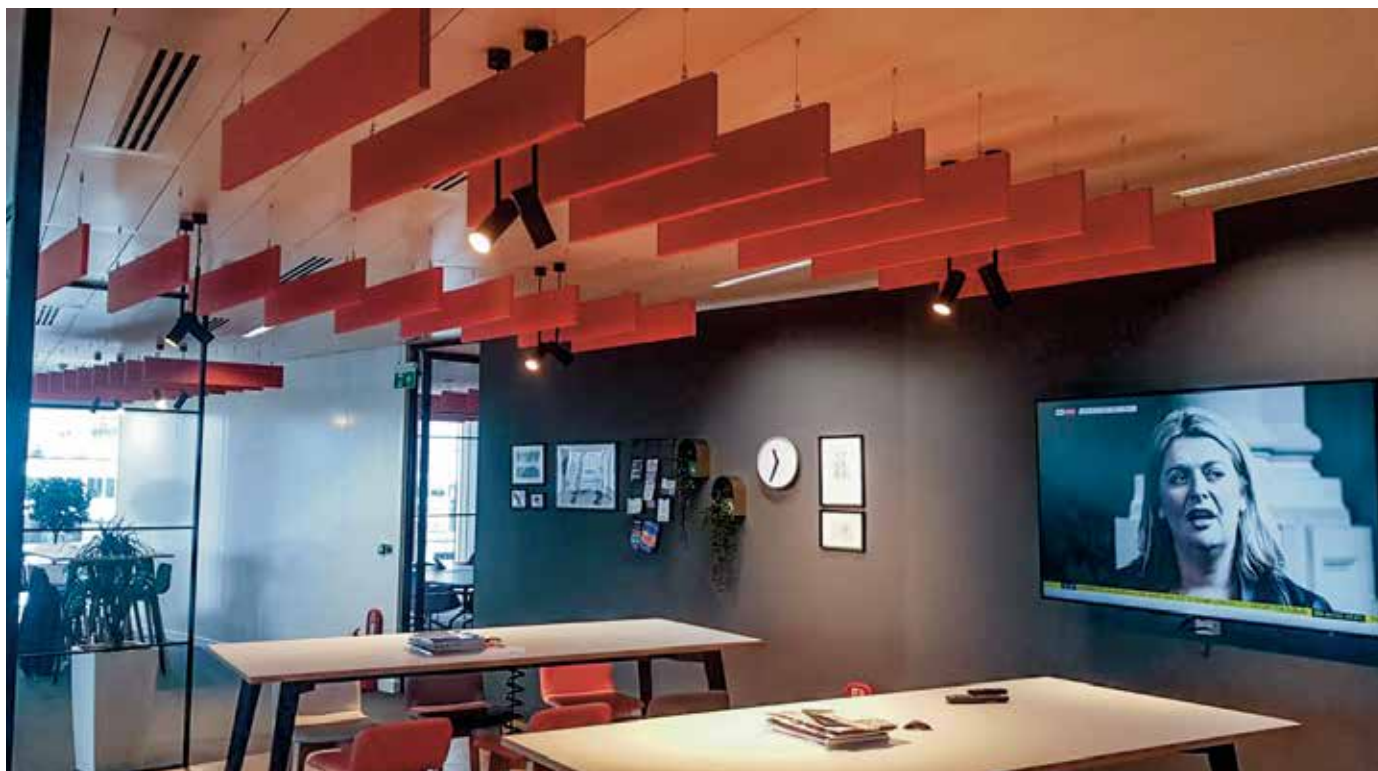
## TVS Raised Access Flooring

**TVS Raised Access Flooring** is a floor created above a solid floor slab, leaving an open void between the two. This void is normally used to distribute building services such as cabling for data, telecoms, electrical power, environmental controls and HVAC. Raised access flooring is mainly used in data rooms, control centres, office spaces and retail, allowing quick access for maintenance of systems.

TVS has partnered with one of the UK's largest manufacturers to be able to offer a large range of PSA and BSEN systems and has over 20 years combined experience in supplying raised access flooring.

- ▶ Supply only or supply & fit
- ▶ Other systems available including Kingspan
- ▶ Multiple finishes & grades
- ▶ Plan take offs available
- ▶ Callidus layout plans available
- ▶ Recycled Panels available for cost saving
- ▶ Matching to old & obsolete systems
- ▶ Grills and floor boxes available
- ▶ Smoke & fire barriers available
- ▶ Advice with the backing of the manufacturer





## Case Study – Hardman Street, Manchester

### TVS Care Baffle

#### Project Objective

TVS group was approached by Flexible Business Interiors & Komfort Partitioning to reduce noise levels in certain areas of the new offices created for Protector Insurance.

Working with both parties, we proposed and supplied 125 no. TVS Care Baffles in 24mm Orange Polyester material.

The client is delighted with the level of noise reduction achieved and the way the baffles integrate with the existing office colour scheme.

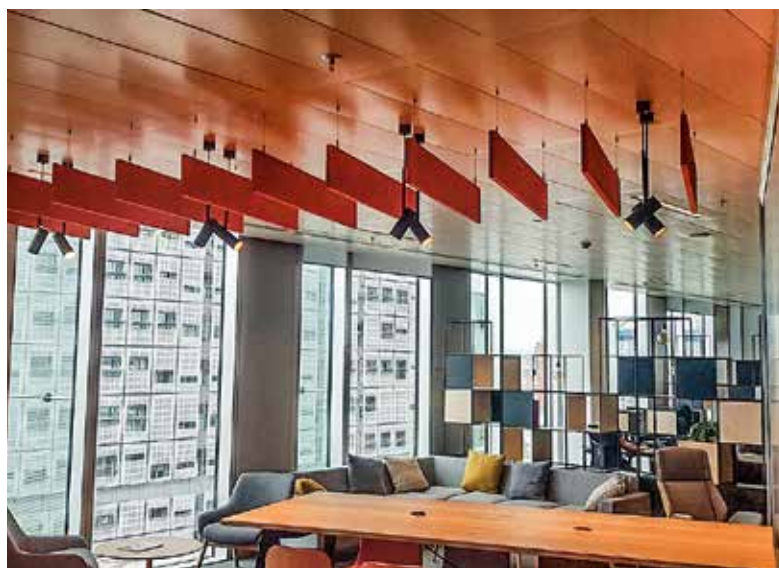
#### Product

TVS Care Baffle

1200 x 200 x 24mm Orange Polyester

#### Special Features

- ▶ Class A absorber
- ▶ 24mm thick polyester material
- ▶ Made from recycled plastic bottles
- ▶ Designed to match customer's colour scheme
- ▶ Quick turnaround
- ▶ Cost effective
- ▶ Suspended vertically





# Other products available from **TVS Group**

## TVS Ceilings Range

## ACOUSTICS IN GYMS



**TVS ACOUSTICS**  
NOISE & VIBRATION CONTROL  
[www.tvs-acoustics.com](http://www.tvs-acoustics.com)

## Safe Surfacing for Playgrounds



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## Performance Surfaces for Sports Facilities



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