

TVS Ceilings Range Brochure



TVS GROUP

SPORT | FITNESS | PLAY | ACOUSTICS

www.TVS-Group.co.uk

Overview

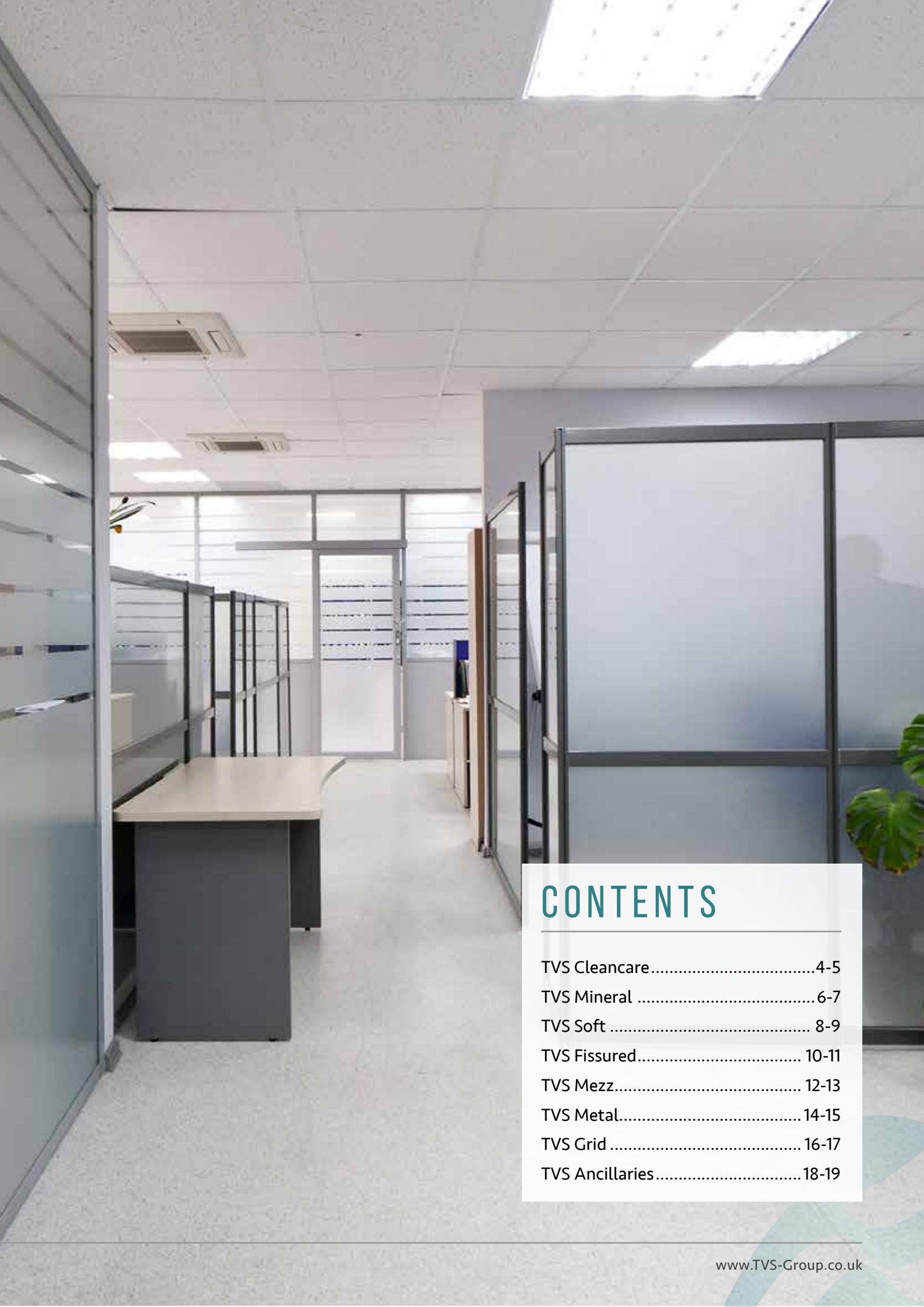
TVS Acoustics offer a wide and cost effective range of suspended ceiling solutions.

Our TVS Cleancare vinyl tiles have been extremely popular with both retailers & distribution partners, this has prompted us to expand the range further. Enabling us to provide a complete range covering all types of materials and acoustic solutions.

Guide

TVS Cleancare	Cost Effective 90% RH Moisture Resistant 30 mins Fire Resistant Used in Retail Environments, Kitchens, Toilets, Store Rooms
TVS Mineral	Widely Accepted Perforation Pattern Class C Absorption 37dB Attenuation 99% RH Moisture Resistant Used in Classrooms, Offices, Communal Areas
TVS Soft	Soft Fibre Tile Class A Absorption 25db Attenuation 99% RH Moisture Resistance Used in Offices, SEN Areas, Drama Rooms
TVS Metal	Plain or Perforated Tiles Lay In or Clip In Variety of RAL Colours Class C or Class A Absorption
TVS Mezz	1 Hour Fire Rated Tile 0.50 NRC 37dB Attenuation 99% RH Moisture Resistance Used Underneath Mezzanine Floors
TVS Grid	RAL 9016 Global White as Standard 24mm, 15mm, Black & ECR Options





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TVS Cleancare

TVS Cleancare is manufactured according to the UNE-EN 14190 standard, based on a Type A laminated gypsum board covered with a white Polyvinyl Chloride (PVC) film that gives it special waterproofing and easy-cleaning qualities.

It incorporates an aluminium-coloured sheet on its back-face that works as a vapour barrier and at the same time protects all the tile, in case of leaks or damage of the housing.

It is a simple solution, of great quality and durability, packed in boxes of 8 units.

Advantages

- ▶ Easy to clean
- ▶ High light reflectance
- ▶ Vapour barrier
- ▶ Moisture resistance
- ▶ Recyclable
- ▶ Durability and resistance
- ▶ High fire resistance

Suitable Environments

- ▶ Retail Stores
- ▶ Supermarkets
- ▶ Convenience Stores
- ▶ Takeaways
- ▶ Changing Areas
- ▶ Kitchens
- ▶ Toilets
- ▶ Warehouses
- ▶ Storerooms
- ▶ And others



Technical data

Edge	Square
Dimensions	600 x 600mm / 600 x 1200mm
Thickness	8.00mm (+/- 0.5mm)
Average Weight	5.80kg/m ²
Units/Box	8 tiles (600 x 600mm) = 2.88m ² weight: 17kg per carton 6 tiles (600 x 1200mm) = 4.32m ² weight: 34kg per carton
Thermal Conductivity	0.25 W/m K (UNE-EN 12524 Standard)
Light Reflectance	87%
Fire Resistance (max.)	30 minutes to BS-EN 1363-1: 2015
Coating Film	Polyvinyl chloride - Colour White 80g/m ²
Intended Use	Removable ceilings in bathrooms, kitchens and areas where easy maintenance and cleaning are required.



Fire Reaction Test Results*

According to UNE-EN 13501-1 + A1: 2003

Test	Clause	Height
Fire behaviour	11.7.3	A2
Smoke emission level	11.10.1	s1
Flaming droplets	11.9.2	d0

A2 s1 d0

*Tested at Efectis Labs, Certificate No: EEA-1800-0071, October 2018.
 Fire resistance classification in accordance to UNE-EN 13501-1:2007+A1:2009
 Reference standard UNE-EN 14190:2014
 "Gypsum board products from reprocessing."



TVS Mineral



TVS Mineral

TVS Mineral has a textured, perforated finish to provide a Class C absorption.

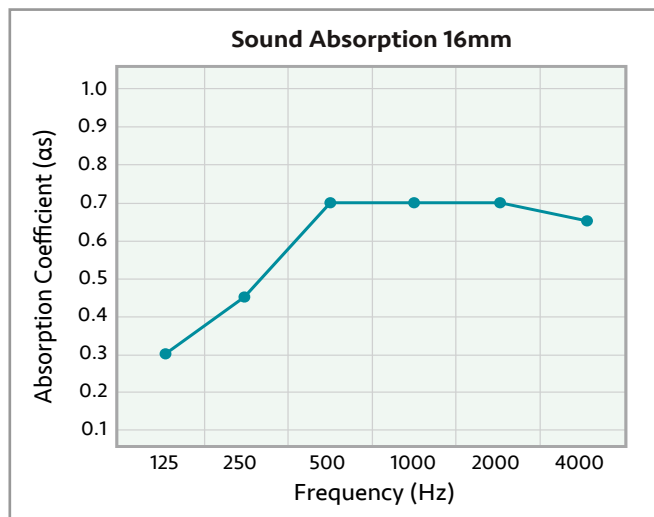
Offering cost effective solutions to Classrooms, Offices and Communal Areas with a finish widely recognised in the ceilings industry.

Features & benefits



- ▶ Offers a balance of acoustic performance, fire reaction, 99% Humidity Resistance and 88% Light Reflectance.
- ▶ Light granulated surface texture with virtually invisible micro-perforation, for a smoother look than standard perforations, that improve sound absorption, reduces light fixtures and energy use.
- ▶ Fire resistant system options, for light safety and protection of property.
- ▶ Ideal solutions for classroom and general teaching conditions.
- ▶ Treated when requested on panels face and back surfaces with a patented, broad-spectrum antimicrobial standard formulation that inhibit mold growth.

Suitable Environments

- ▶ Classrooms
- ▶ Libraries
- ▶ Corridors/Stairwell
- ▶ Reception & Lobby Areas
- ▶ Cafeteria/Restaurant
- ▶ Sports Hall
- ▶ General Offices
- ▶ Shopping Centres



TVS Mineral Table of Performance

Edge detail	Item	Size (mm)	NRC	CAC	LR	Recycled Content	VOC Emission
SQ 	OLPS666	600 x 600 x 16	0.7	37dB	88%	25%	Low
T24 	OLPCR665	600 x 600 x 16	0.55	35dB	88%	39%	Low



Specification Details

TVS Mineral meets the requirements in accordance with ASTM E1264 and EN13964.

Materials Classification

Type: III
Form: 2
Pattern: C, E

Substrate and Surface Finish

Mineral Fibre substrate with factory-applied water-based paint.

Thickness: 16mm

Size (mm): 600 x 600

Edge Detail Trim Square Edge (SE)

Weight 3.6kg/m²

Noise Reduction Coefficient (NRC) 0.70

Ceiling Attenuation Class (CAC) 37dB

Humidity Resistance Maximum 99% RH

Light Reflectance Coefficient (LR) 0.88

Colour White similar to RAL 9016

Surface Burning Characteristics as per ASTM E84

Class A, Flame Spread: 10,
Smoke development: 20

Reaction to Fire as per EN 13501-1

Euroclass A2-S1,d0

Thermal Resistance 0.23m² °K/W – R 1.3

Washability/Scrubability as per ASTM D4828 & D2486

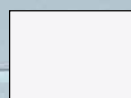
Exceeds 1000 Wash/Scrub cycles without surface break or the extent of abrasion upon request

VOC Class Green Guard Gold

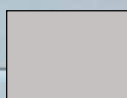
Relevant LEED Credit

EA Credit 1 | MR Credit 4 | MR Credit 5 | MR Credit 6 |
IEQ Credit 3 | IEQ Credit 3.2 | IEQ Credit 4.6 |
IEQ Credit 8.1 | IEQ Credit 9

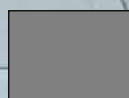
TVS Soft



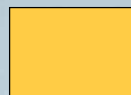
White



Light Grey



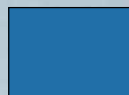
Dark Grey



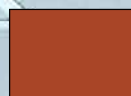
Yellow



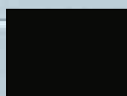
Green



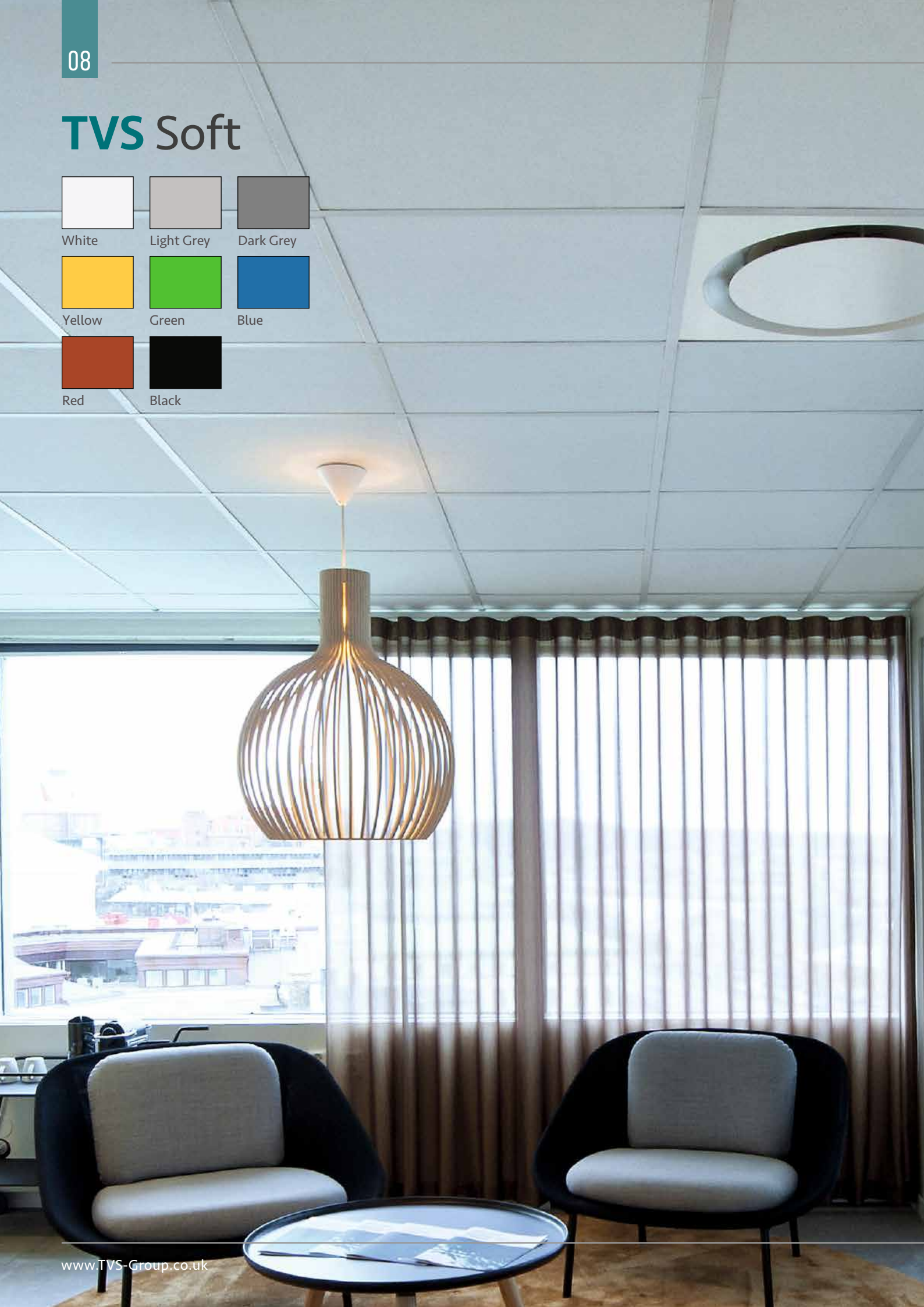
Blue



Red



Black

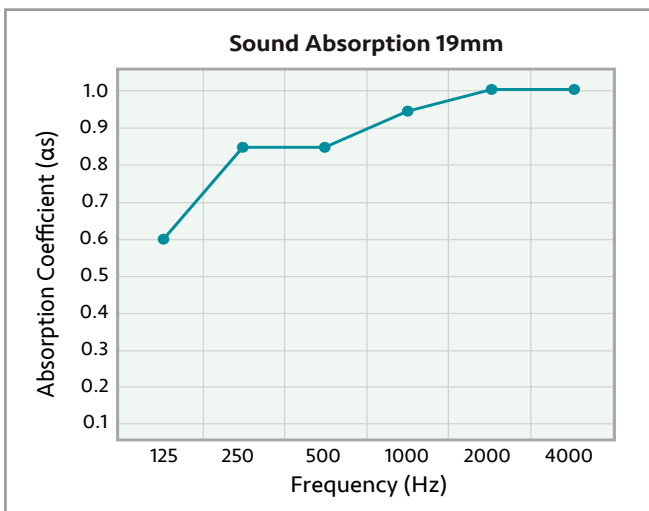


TVS Soft


TVS Soft is a soft fibre tile providing a Class A absorption. Widely used in more sound sensitive areas such as SEN rooms, Drama Rooms, Offices & Cinemas.

Features & benefits

- ▶ Stone Wool substrate with monolithic visual reducing installation time.
- ▶ Exceptional Sound Absorption with NRC values up to 0.95 and CAC up to 39dB.
- ▶ High Light Reflectance (LR-0.88) reduces light fixtures & energy use.
- ▶ Washable & Scrubbable finish.
- ▶ Impact & Scratch Resistant.
- ▶ Available in Plank Sizes compatible with Logix Integrated Ceiling System.
- ▶ Available in baffle sizes.



TVS Soft Table of Performance

Edge detail	Item	Size (mm)	NRC	CAC	LR	Recycled Content	VOC Emission
SQ 	LNC665	600 x 600 x 19	0.90	25dB	88%	47%	N/A



Suitable Environments

- ▶ Educational Facilities
- ▶ Lobbies
- ▶ Waiting Areas
- ▶ Restaurants
- ▶ Receptions & Offices
- ▶ Open-plan Areas

Specification Details

TVS Soft Acoustical Ceiling meets the requirements in accordance with ASTM E1264.

Materials Classification

Type: XX Form: 2 Pattern: G

Substrate and Surface Finish

Stone Wool substrate finished with painted fiberglass scrim.

Thickness: 19mm

Size (mm): 600 x 600

Edge Detail Trim Square

Weight 1.5kg/m²

Noise Reduction Coefficient (NRC) 0.90

Ceiling Attenuation Class (CAC) 25dB

Mold Prevention Application as per ASTM D3273

Soft fibre substrate is inherently resistant to the growth of mold and mildew

Humidity Resistance Maximum 99% RH

Light Reflectance Coefficient (LR) 0.88

Colour Standard White similar to RAL 9016.

Other colours are available upon request

Surface Burning Characteristics as per ASTM E84

Class A, Flame Spread: 10,

Smoke development: 20

Thermal Resistance 0.6m² °K/W – R 2.6

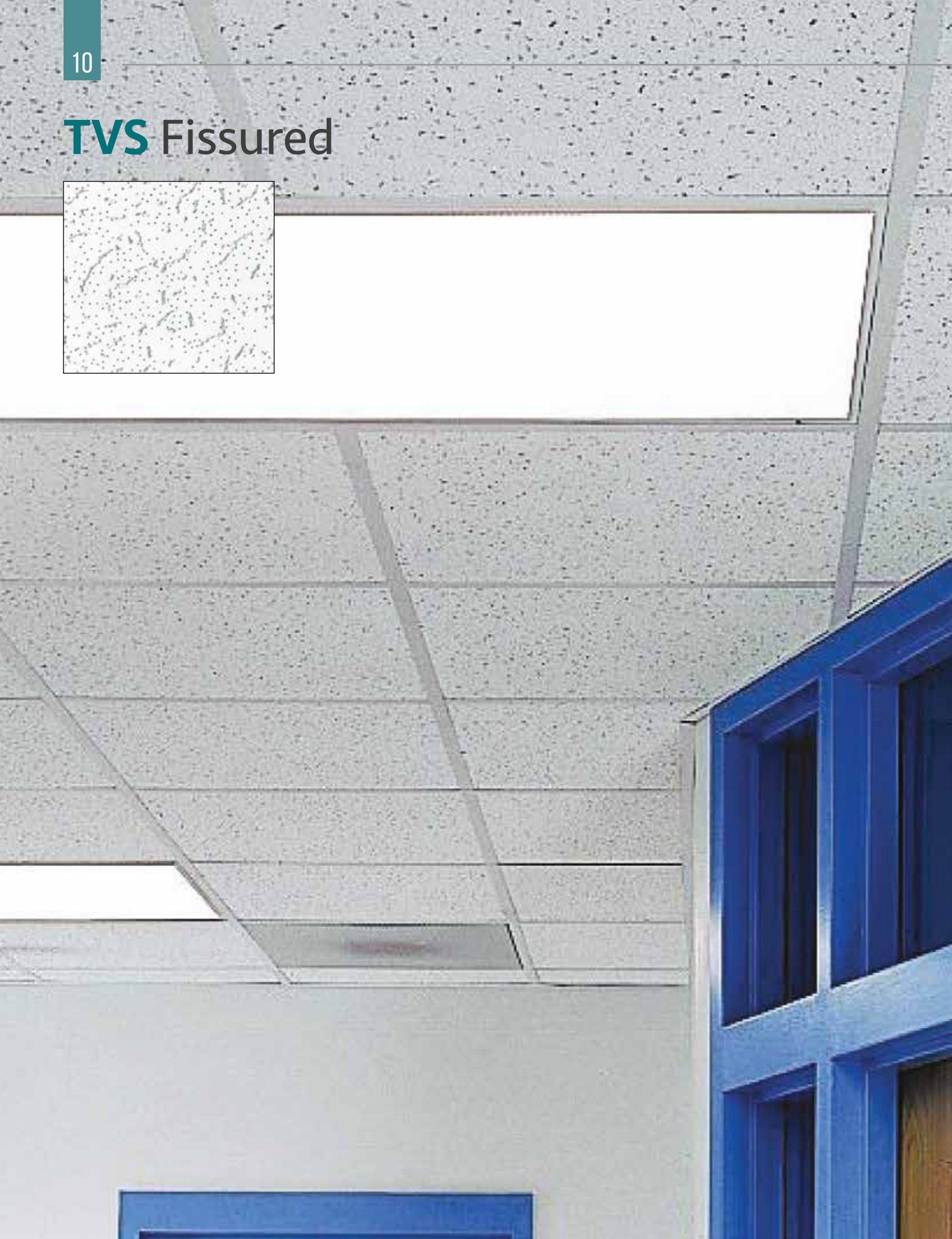
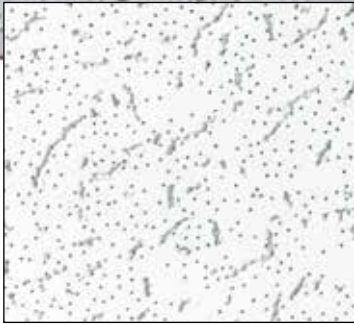
Washability/Scrubability as per ASTM D4828 & D2486

Exceeds 1000 Wash/Scrub cycles without surface break or the extent of abrasion upon request

Relevant LEED Credit

EA Credit 1 | MR Credit 4 | MR Credit 5 | MR Credit 6 | IEQ Credit 3 | IEQ Credit 3.2 | IEQ Credit 4.6 | IEQ Credit 8.1 | IEQ Credit 9

TVS Fissured



TVS Fissured

TVS Fissured is a low cost tile to cover services and unsightly soffits.

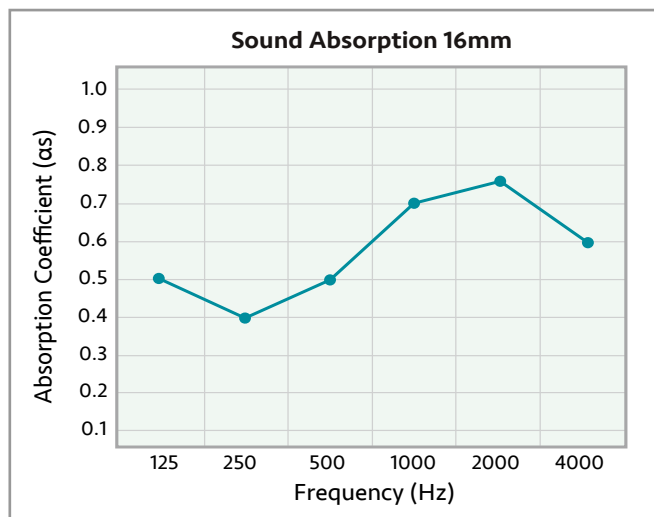
It provides a Class D absorption and is ideal for less sensitive acoustic areas in a project.

Features & benefits


- ▶ Economical, all-purpose ceiling pattern available in various panel sizes.
- ▶ Directionally fissured panels excellent choice for large ceiling areas.
- ▶ Mid-range sound absorption and sound attenuation which makes it ideal for schools, corridors and general commercial stores.
- ▶ Optional FIRECODE™ formulation designed to meet life safety codes.
- ▶ Meets the emission test criteria as low emitting per standard established by the Collaborative for High-Performance Schools (CHPS) and following ASTM D5116 testing method.

Suitable Environments

- ▶ Education
- ▶ Corridors/Hallways
- ▶ Mass Merchandiser
- ▶ Convenience Stores
- ▶ Mezzanine/Basement
- ▶ Warehouse



TVS Fissured Table of Performance

Edge detail	Item	Size (mm)	NRC	CAC	LR	Recycled Content	VOC Emission
SQ 	CFS663	600 x 600 x 16	0.5	35dB	82%	25%	Low



Specification Details

TVS Fissured Acoustical Ceiling meets the requirements in accordance with ASTM E1264 and EN13964.

Materials Classification

Type: III
Form: 2
Pattern: C, D

Substrate and Surface Finish

Mineral Fibre substrate with factory-applied water-based paint.

Thickness: 16mm

Size (mm): 600 x 600

Edge Detail Trim Square

Weight 3.6kg/m²

Noise Reduction Coefficient (NRC) 0.50

Ceiling Attenuation Class (CAC) 35dB

Humidity Resistance Maximum 90% RH/
30°C for ClimaPlus

Light Reflectance Coefficient (LR) 0.82

Colour White similar to RAL 9016

Surface Burning Characteristics as per ASTM E84

Class A, Flame Spread: 10,
Smoke development: 20

Reaction to Fire as per EN 13501-1

Euroclass A2-S1,d0

Fire Rating as per ASTM E119

2hrs Time-Rated Assembly (J201)

Thermal Resistance 0.23m² °K/W – R 1.3

Washability/Scrubability as per ASTM D4828 & D2486

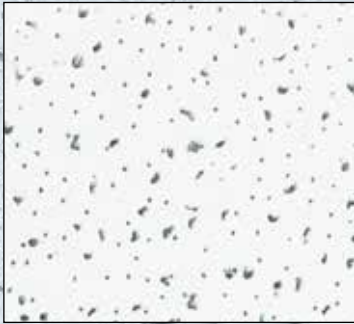
Exceeds 1000 Wash/Scrub cycles without surface break or the extent of abrasion upon request

VOC Class Green Guard Gold

Relevant LEED Credit

EA Credit 1 | MR Credit 4 | MR Credit 5 | MR Credit 6 |
IEQ Credit 3 | IEQ Credit 3.2 | IEQ Credit 4.6 |
IEQ Credit 8.1 | IEQ Credit 9

TVS Mezz



TVS Mezz

TVS Mezz is a low cost solution for underneath Mezzanine Floors.

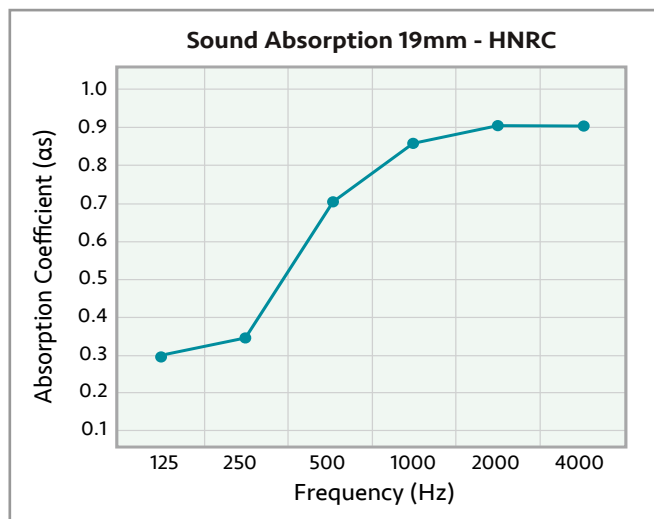
Providing a 1 hour fire resistance along with a Class D absorption.

Features & benefits

- ▶ 360° non-directional pattern with a fresh, clean appearance offers fast, efficient installation.
- ▶ Economical for all purpose ceiling pattern offered in many sizes.
- ▶ Ideal for a balancing of sound absorption that provides balance to room acoustics and sound attenuation that is ideal for general commercial construction.
- ▶ Fire resistant system options, for life safety and protection of property.
- ▶ Available in 22mm for High NRC & High CAC panels.
- ▶ Available also in Washable Paint, Plank Sizes.

Suitable Environments

- ▶ Education
- ▶ Corridors
- ▶ Cafeterias
- ▶ Libraries
- ▶ Open Office Plans
- ▶ Retail Stores
- ▶ Basements



Specification Details

TVS Mezz Acoustical Ceiling meets the requirements in accordance with ASTM E1264 and EN13964.

Materials Classification

Type: III
Form: 2
Pattern: C, D, E

Substrate and Surface Finish

Mineral Fibre substrate with factory-applied water-based paint.

Thickness: 19mm

Size (mm): 600 x 600

Edge Detail Trim Square

Weight 4.5kg/m²

Noise Reduction Coefficient (NRC) 0.50

Ceiling Attenuation Class (CAC) 37dB

Humidity Resistance Maximum 99% RH

Light Reflectance Coefficient (LR) 0.85

Colour White similar to RAL 9016

Surface Burning Characteristics as per ASTM E84

Class A, Flame Spread: 10,
Smoke development: 20

Reaction to Fire as per EN 13501-1

Euroclass A2-S1,d0

Fire Rating as per ASTM E119

2hrs Time-Rated Assembly (J201)

Thermal Resistance 0.31m² °K/W – R 1.8

Washability/Scrubability as per ASTM D4828 & D2486

Exceeds 1000 Wash/Scrub cycles without surface break or the extent of abrasion upon request

Relevant LEED Credit

EA Credit 1 | MR Credit 4 | MR Credit 5 | MR Credit 6 |
IEQ Credit 3 | IEQ Credit 3.2 | IEQ Credit 4.6 |
IEQ Credit 8.1 | IEQ Credit 9

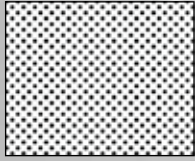
TVS Mezz Table of Performance

Edge detail	Item	Size (mm)	NRC	CAC	LR	Recycled Content	VOC Emission
SQ	RDX665	600 x 600 x 19	0.5	37dB	85%	56%	Low

TVS Metal Lay-In



Plain Lay-in



Perforated Lay-in

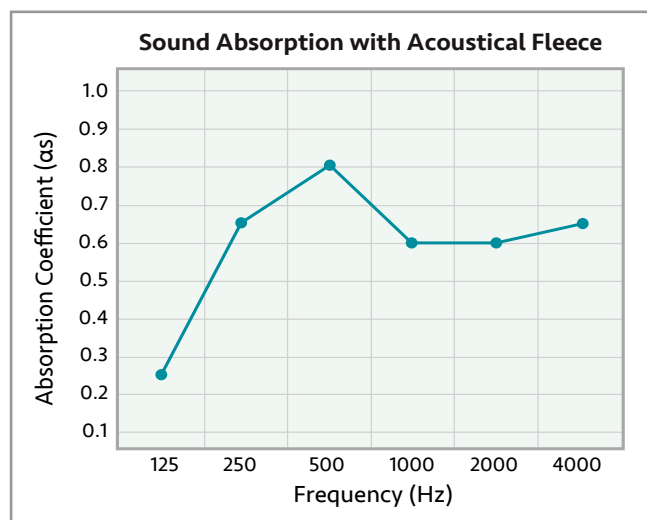


TVS Metal Lay-In

TVS Metal Lay-In is available as plain or perforated lay in tiles. RAL 9010 as standard, but other RAL colours available on request.

Features & benefits

- ▶ Durable and washable polyester powder finish.
- ▶ Wide range of standard perforation patterns.
- ▶ Wide range of optional wooden patterns.
- ▶ Easy access for service maintenance.
- ▶ Robust and easy to clean.
- ▶ High sound absorption and sound attenuation.
- ▶ Environmentally friendly and recyclable.



Suitable Environments

- ▶ Transportation & Airports
- ▶ Educational
- ▶ Healthcare
- ▶ Hospitality & Hotels
- ▶ Commercial Buildings
- ▶ Hi-Rise & Offices
- ▶ Financial & Banking
- ▶ Malls & Residential

Specification Details

TVS Metal Lay-In meets the requirements in accordance with ASTM C635, ASTM C636, ASTM E119, ASTM C423 and ASTM E84.

Thickness: 0.6mm

Size (mm): 600 x 600

Edge Detail Trim Reveal (SL)

Weight 3.6kg/m²

Noise Reduction Coefficient (NRC)

Plain: N/A
Perforated: 0.45 – 0.9

Light Reflectance Coefficient (LR)

Based on the finish colour, up to LR-1

Colour

Standard colours are RAL 9016, RAL 9006 and RAL 9010. Other colours are available upon request. Wooden patterns are available upon request.

Fire Performance

Fire rated designed class A as per ASTM E84.

Infill Plain

Washability/Scrubability as per ASTM D4828 & D2486


Exceeds 1000 Wash/Scrub cycles without surface break or the extent of abrasion.

VOC Class Green Guard Gold

Relevant LEED Credit

EA Credit 1 | MR Credit 4 | MR Credit 5 | MR Credit 6 | IEQ Credit 3 | IEQ Credit 3.2 | IEQ Credit 4.6 | IEQ Credit 8.1 | IEQ Credit 9

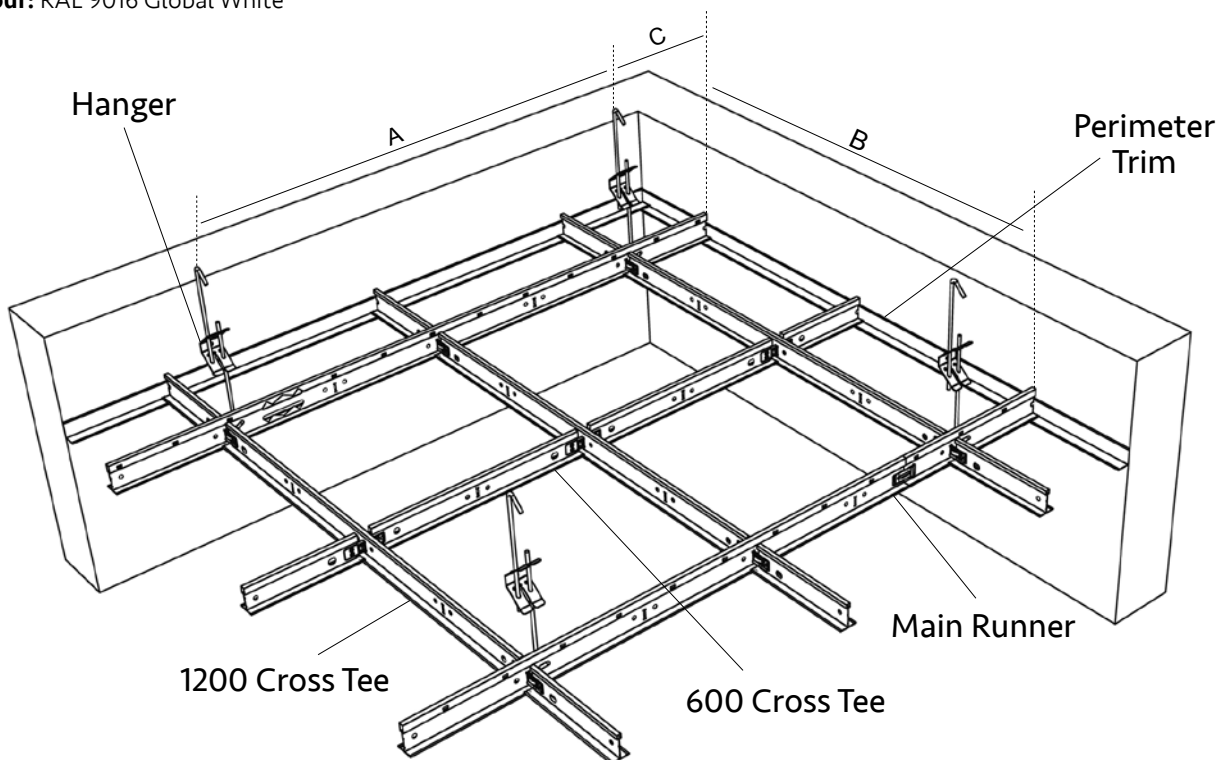
TVS Metal Lay-In Table of Performance

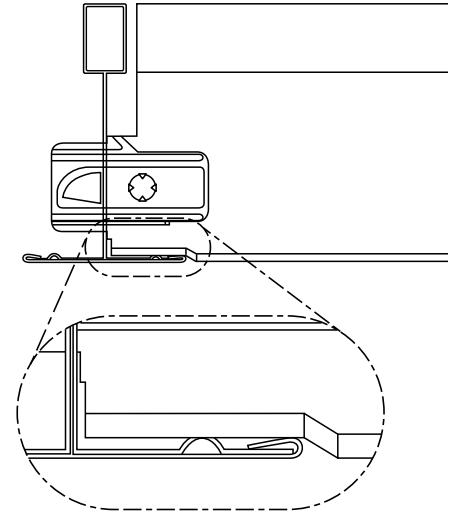
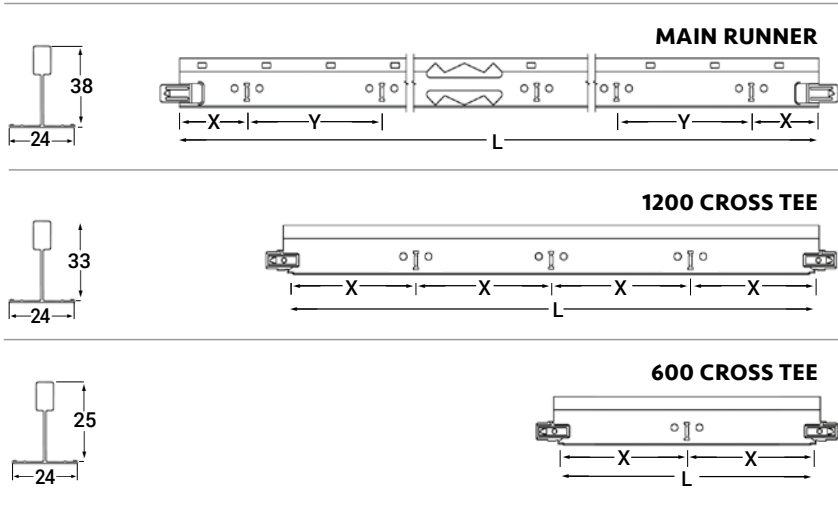
Material	Edge detail	Pattern	Item	Size (mm)	NRC	CAC
Aluminium	SL 	Plain	ALW-6006006R16	600 x 600 x 0.6	N/A	36
Aluminium	SL 	Perforated	ALPA1W-6006006R16	600 x 600 x 0.6	0.65	







TVS LG24 Ceiling Grid

Exposed 24mm Ceiling Grid.
Click system with long joggled end detail.
Colour: RAL 9016 Global White





Product	Length	Pieces per Carton	Weight per Carton
Main Runner	3700mm	20	25kg
1200 Cross Tee	1200mm	60	16kg
600 Cross Tee	600mm	60	7kg
Perimeter Trim	3000mm	25	26kg

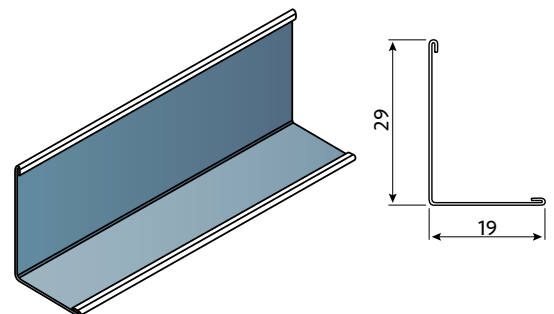
-  Structure according to EN 13964.
-  Reaction to fire certification.
-  Corrosion resistance according to Standards EN 13964 Class B.
-  Profiles with different lengths upon request.



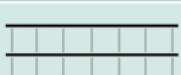
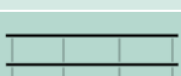


The load per m² must be distributed uniformly (no points loads) over the ceiling area.

The deflection load has been calculated in accordance with the class 1 (L/500) of EN 13964, provided the grid layout is as presented in the sketch. Concentrated loads or additional weights such as lights, smoke detectors, air ducts, suspended signs, etc are not allowed.

The maximum loads per m² shown in the table include ceiling tile weights and any additional weight, such as mineral wool or glass fibre, to improve the acoustic and fire resistance features.



MAXIMUM PERMISSIBLE PAYLOAD kg/m ²	Suspension Distance (A)		mm	800	1000	1200	
	Module	Main runner distance 1200mm (B)	600 x 600	12.7	10.5	7.5	
1200 x 600			14	11.5	8		
Main runner distance 600mm (B)		600 x 600	20	20	15		
		1200 x 600	20	20	15		

TVS SH Acoustic Hangers

Natural Frequency down to 8Hz

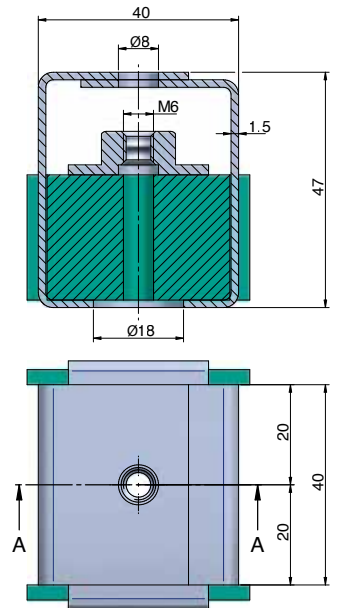
TVS SH Acoustic Hangers offer cost-effective solutions for isolation of suspended equipment and ceilings. Utilising the high performance Sylomer® material, these hangers are designed to solve both low and high frequency attenuation problems in a protective space or radiating to surrounding locations.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



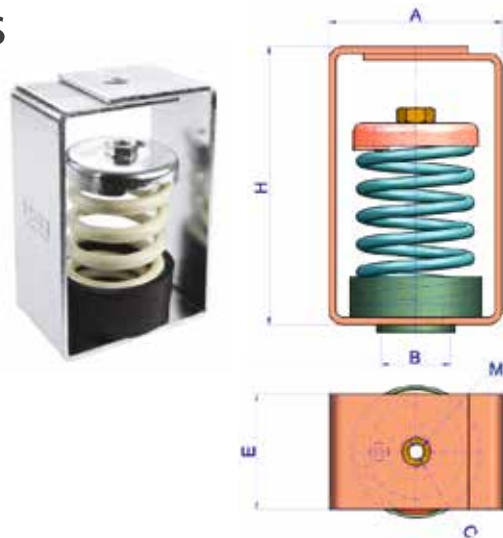
TVS VT Spring Acoustic Hangers

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 Bagged Insulation Pads

Designed to reduce the amount of heat and sound loss from a room.

Dimensions: 600x600mm

Thickness: Variety

Contents: Glass fibre

Outer: Polythene



TVS Angle Brackets

Ceiling suspension brackets.
Galvanised mild steel to
BS:EN 10142:2000.



TVS Ceiling Wire

2mm galvanised mild steel wire.
5kg coils.



TVS Hold Down Clips

Universal hold down clips.
Spring steel.
Suitable for 6-20mm tiles.

TVS Acoustics can help you with your project requirements:

- Ceiling Tiles
- Ceiling Grid
- Baffles, Rafts, Wall Panels in
 - Wrapped Fibre Glass
 - Polyester
 - Metal - RAL coloured or wood effect

Please refer to the TVS Acoustic Interiors brochure for more details.

**For more information call us on
01706 260 220**



TVS GROUP
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www.TVS-Group.co.uk



E: Sales@TVS-Group.co.uk | T: +44 (0) 1706 260 220 | F: +44 (0) 1706 260 240
Low Bay, Commerce Street, Carrs Industrial Estate, Haslingden, Rossendale,
Lancashire, BB4 5JT, United Kingdom

www.TVS-Group.co.uk

