

# VITEROLITE® 300

## sustainable non-fibrous sound absorbing tiles

Viterolite® 300 - The versatile sound absorber for challenging environments. Viterolite was developed to meet requirements of a durable, sustainable sound absorber that is non-fibrous and overcomes issues of weather aging and contamination damage.

Viterolite® 300 are pre-cast tiles made from expanded glass granules that are produced from recycled glass. The processed granules are bonded together using a polymer resin binder. Each granule inherently acts as an acoustic absorber and the polymer resin binder considerably enhances the impact resistance of the tiles. The result is a light-weight, porous, sound-absorbing panel with excellent impact resistance properties that are suitable for both external and indoor use. They are an ideal choice for areas with challenging weather and impact conditions such as train stations, as well as indoor areas with high humidity or fire concerns. Unlike traditional porous or open-cell materials, its natural resistance to moisture ensures that the panels will not significantly retain or absorb moisture. Viterolite has been tested to the highest fire rating, Class 0, required by the British building standards.

Viterolite® 300 tiles can be worked on site and retrofitted to reflective surfaces such as concrete walls to provide effective noise absorption. The panels can withstand weather conditions, impact, animal infestation and have a long life-span without any additional treatment.

They can be cut to different shapes and sizes, routed to provide varying texture and shadowing effects, thereby opening up several aesthetic options for interiors as well as outdoor applications. Constructed from recycled material, and VOC free, Viterolite® 300 tiles are easy to work on, fix and maintain.

### SPECIFICATIONS

Colour	Grey
Available	Tile size: 600 X 600 mm Thickness: 25 mm, 50 mm
	Other sizes are available on request (depending on MOQ)



## applications

- Outdoor: painted or rendered panels for exit ways, smoking areas, road barriers, exterior plant fences
- Areas with challenging weather conditions
- Areas requiring high fire safety
- Rail: train stations
- Plant rooms, substations, vent shafts and exits
- Transport depots, road barriers, airports, stations, or parking exits
- Machinery enclosures
- Schools: sports halls, auditoriums
- Health care: hospital, aged care
- Wet areas: swimming pools, spas car washes
- Interiors: plain, painted or rendered panels

## features

- Lightweight, rigid, durable and self supporting
- High impact resistant and sound absorption
- High weather, water and UV resistance
- Resistant to chlorides and potassium
- Non-fibrous, non-toxic and VOC free
- Can be used in conjunction with other sound absorbing products to suit acoustic requirements
- Easy to cut and shape using standard wood working equipment, machined or routed
- Easily routed, rebated to make grooves or holes in tiles to allow cable and pipe access
- Aesthetic options: Can be painted with water based paint or rendered for a seamless finish
- Can be mechanically fixed using 'C' channel framework or bonded directly to a variety of clean substrates depending on the application requirement
- Cleanable - will not sag or stain as a result of moisture



## PRODUCT SPECIFICATIONS

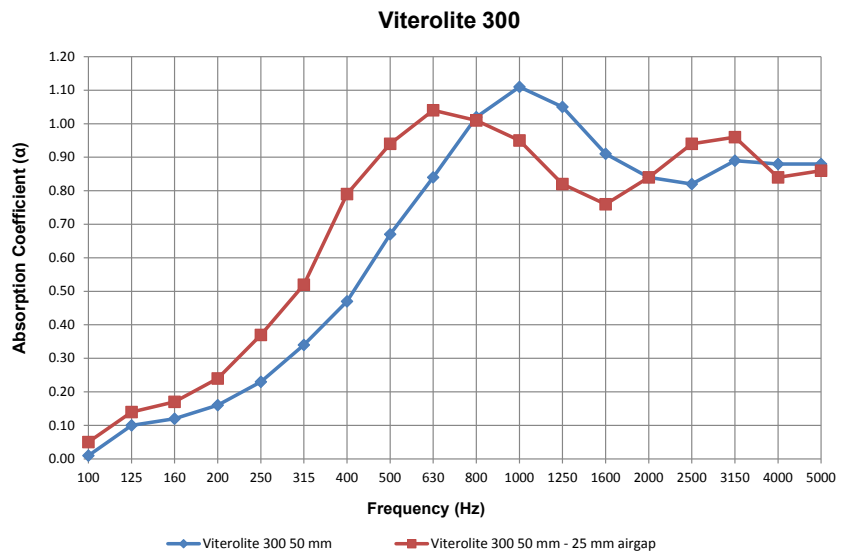
Product name	Thickness (mm)	Tile size		
		Length (mm)	Width (mm)	Approximate weight (kg)
VITEROLITE® 300 25/600600	25	600	600	3
VITEROLITE® 300 50/600600	50			6

## MATERIAL PROPERTIES

Test method	Index	Report no.	Results	Property
AS/NZS 3837:1998	Group Certification	7-580845-CN	Group 1 By definition, does not ignite so cannot be classified.	Test for heat & smoke release rates for materials & products using an oxygen consumption calorimeter.
ASTM E84	IBC S.803 / NFPA 5000 Ch.10.3 Class A (FSI 0-25); Class B (26-75); Class C (76-200); SDI (0-450)	d9735.02-121-24-r0	Class A	Flame spread and smoke development
BS476 Part 6: 1989 + A1:2009	Fire Propagation index, I	310190	Class 0	Fire Propagation test method
BS476 Part 7: 1997	Class1/Class2/Class3	310191		Classification of the surface spread of flame.
Class "0" - Summary Report	UK Building Regulations	-		Class 0 being the highest fire standard required by the British building code

## ACOUSTIC PERFORMANCE

Frequency (Hz)	Viterolite® 300 50 mm	Viterolite® 300 50 mm - 25 mm airgap
100	0.01	0.05
125	0.10	0.14
160	0.12	0.17
200	0.16	0.24
250	0.23	0.37
315	0.34	0.52
400	0.47	0.79
500	0.67	0.94
630	0.84	1.04
800	1.02	1.01
1000	1.11	0.95
1250	1.05	0.82
1600	0.91	0.76
2000	0.84	0.84
2500	0.82	0.94
3150	0.89	0.96
4000	0.88	0.84
5000	0.88	0.86
NRC	0.70	0.80
SAA	0.71	0.77
aw	0.55 (MH)	0.70 (MH)



Tested to ISO 354:2003 at RMIT, Australia  
Report Number: 14-175/PD & 14-176/PD

For further information and contact details, please visit our website [pyroteknc.com](http://pyroteknc.com)

*Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See [pyroteknc.com/disclaimer](http://pyroteknc.com/disclaimer).*

