

VITEROLITE® 900

This Installation Guide provides recommendations to maximise the service life in outdoor applications. Viterolite® 900 should always be installed over surfaces that are flat, clean, free of contaminants and with adequate drainage.



Rail track tile design made out of Viterolite® 900

WORKING HEALTH AND SAFETY

- Failure to follow these guidelines may result in a reduced product life, cracking or other deterioration of the panels.
- Gloves, protective goggles and any other appropriate safety equipment based on local health & safety requirements and safe work practice must be worn by applicator.

KEY INSTALLATION REQUIREMENTS

Viterolite® 900 panels should be installed on a flat level surface of rigid cement slab with suitable strength and thickness. Alignment of top surface of adjacent panels should be of consistent height, providing a smooth continuous surface to eliminate potential trip hazards between individual panels.

If an adhesive is used, AS 3958.1 requires 90% adhesive coverage for flooring applications.

A thicker adhesive layer may be required depending upon the roughness of the substrate surface. To level the floor in the installation area, addition of a cementitious floor levelling compound or grinding of the surface should be considered in order to prepare uneven surfaces.

Viterolite® 900 should only be installed on dry substrates and in areas with suitable drainage.

SURFACE PREPARATION

- All substrates must be clean and free from laitance, curing compounds, dirt, dust, grease, oil and any other contaminants.
- When an adhesive is used, all substrates should be washed with clean water just prior to the application of the adhesive or levelling compound. Care must be taken in the preparation of concrete to ensure all traces of release agents and curing compounds are removed, if in doubt prepare the substrate using a pressure washer to expose the fine aggregates in the matrix of the concrete as this will ensure a clean substrate.
- For rough or uneven surfaces, addition of cementitious floor levelling compound or grinding of the surface to a flat finish is required.

Viterolite® 900 was developed with the aim of providing trafficable acoustic absorber

applications

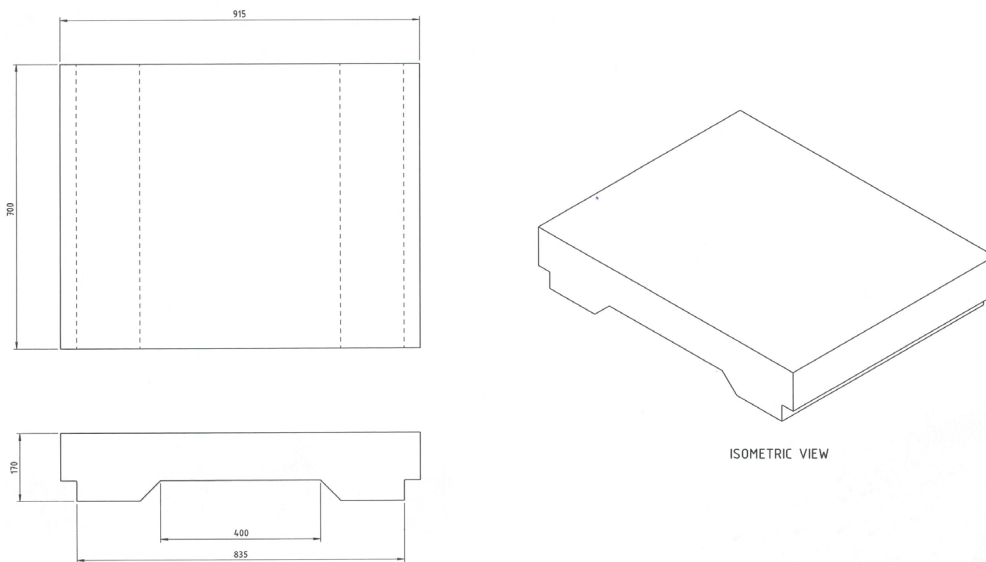
- Applications requiring high fire ratings
- Airports, stations, and carparks
- Railway and motorway tunnels

ADHESIVE APPLICATION

- When used, adhesive must be mixed according to recommendations on the package.
- Once the surface has been appropriately prepared in accordance with the instructions, apply the adhesive onto the surface with a notched trowel.
- If adhesive does fall on front surface of Viterolite, remove excess adhesive without smudging, smearing or wiping it over the surface of the panel.
- Do not allow voids to occur and ensure full coverage of adhesive.

A general recommendation to achieve the 90% required coverage of adhesive is to use a 10 mm notched trowel for the substrate and 6 mm notched trowel to back-butter the acoustic panels. However, a thicker adhesive layer may be required depending upon the roughness of the substrate surface.

DESIGN DETAIL



INSTALLATION

- Check the installation site for accessibility and appropriate installation equipment for the delivery of Viterolite® 900 panels. Viterolite® 900 is supplied vertically upright on pallets. Panels will require lifting and may require rotating 90 degrees to allow access for forklift tines for individual panel lifting. Prior to handling, conduct visual inspection of panels to confirm compliance to specification and to check for any major defects.
- Unloading point or storage area shall be a hard, level, clean, dry and well drained ground. Store panels using “First-In, First-Out” principles, on a pallet with appropriate restraints. If restraints are removed, the Viterolite® 900 panels shall be removed from pallet and stored horizontally. If delivered vertically - we delivered last panels as horizontal.
- Forklifts used to lift panels should be operated by a qualified operator, in a manner compliant with the regional legislative requirements. All other personal shall remain clear of the forklift while in operation. Viterolite® 900 panels are designed to be lifted using a forklift and tines should be carefully adjusted to ensure that they fully utilise the panel lifting points, and prevent lateral movement of the panel.
- The panels must not bridge expansion joints of substrate. Expansion joints must be provided to allow movement. Joints should not be less than 4 mm and not wider than 6 mm. Use flexible sealant where required.
- Panels should be spaced approximately 4 mm apart using tile spacers. Ensure panels are laid evenly, and that the variation in height between adjacent panels is less than 5 mm. Where panel height variation is greater than 5mm, the flooring substrate should be checked to ensure that it is clean and levelled. If required, it shall be raised with cementitious floor levelling compound or ground to correct floor levelling.

CARE, REPAIR & MAINTENANCE

- Replace any cracked or broken panels.
- Clean off any efflorescence by hosing down or using efflorescence remover.
- The porosity of the panels should not be blinded by dirt or any other contaminants.

WEATHERING

Viterolite® 900 is a porous stone-like material that may weather and age naturally in the elements in a similar way to natural stone.

In outdoor applications, Viterolite® 900 may show signs of efflorescence, a temporary condition which can be removed by rinsing with a hose or in most cases over time rainwater steadily removes the deposit leaving the original colour of the panel unharmed.

Efflorescence does not affect the quality, acoustic performance or functionality of Viterolite® 900.