



## Long Live the Environment - and Your Walls

With Vitrolan glass deco fabrics, it's easy to do the right thing for the environment. A durable, wall covering solution made from a renewable resource, Vitrolan glass deco fabrics stand the test of time, virtually eliminating the need for removal and replacement. They are highly resistant to wear and tear and feature excellent reinforcing characteristics, thereby reducing maintenance costs and efforts for new and existing interior walls. Simply put, Vitrolan products are designed to last a lifetime.

### Repair and Reuse

If minor damage occurs to Vitrolan wall coverings, they can be very easily and quickly repaired. And if the design of a room changes over time, Vitrolan wall coverings can be repainted over and over, while still retaining their three-dimensional appearance. This extended lifecycle not only saves the environment, but also boosts a facility's bottom line. Rather than enduring the expensive downtime, labor and materials costs of replacing a wall covering, Vitrolan glass deco fabrics can be repaired and repainted, as needed. They also prevent dry-wall cracks in new buildings and cover existing cracks in older buildings.

### Breathe Easy

Made from a renewable resource, quartz, that is melted and spun into fine yarns, Vitrolan glass deco fabrics are the natural choice for your wall coverings. In fact, when glass filaments are spun into yarn, they are pound for pound stronger than steel in tensile strength. This strength not only creates a highly durable wall covering, but also maintains extreme hygiene requirements. By providing a strong and easy-to-clean surface, Vitrolan wall coverings offer no pores and pockets in which micro-organisms could accumulate, making them the ideal solution for healthcare facilities and restaurants.

Unlike traditional commercial wall coverings, Vitrolan products promote healthy indoor air quality. Since glass is an inert material, it does not promote growth of microbes, nor is there any kind of off-gassing (migration of plasticizers from PVC), which is a major concern with vinyl wall coverings. Vitrolan glass deco fabrics are chlorine-free, emit low volatile organic compounds and have a high permeability rating. All that means you can breathe easy when it comes to your wall covering's effects on air quality and human health.

### Stay Safe

Fire retardant attributes of Vitrolan glass deco fabrics are yet another reason to breathe easy. Glass does not burn – it melts at very high temperatures. So the ASTM 84 tested flame spreads are very low, even as low as zero in some Vitrolan glass fabrics, resulting in a Class I certification. But more important, in tests of all Vitrolan fabrics, the smoke development is almost zero – a key benefit since smoke is the leading cause of death in fires. This almost zero smoke development is a feature that other wall covering products like fiberglass reinforced panels and vinyl simply cannot achieve.

## Quartz, Naturally!

Vitrulan glass fabrics are made from an abundant and naturally occurring resource: quartz. The quartz is melted, spun to fine threads and processed and refined with state-of-the-art technologies to form high-quality fabrics. Offering long life cycles and extreme durability, Vitrulan glass fabrics are used in a variety of applications from interior wall coverings to exterior wall reinforcements.

The mineral quartz is formed when silicon and oxygen, the two most common elements in the Earth's crust, combine as silicon dioxide. Quartz is the most abundant mineral in the Earth's crust. It occurs in basically all mineral environments, and is an important constituent of many rocks. Sand, which is composed of tiny quartz pebbles, is the main ingredient in the manufacture of glass.

## Prove It

You can count on Vitrulan for proven ecological standards. The use of Vitrulan glass deco fabrics may contribute to earning USGBC LEED® (Leadership in Energy and Environmental Design) certification. Following are areas in which Vitrulan products may qualify for LEED points.

<b>LEED-NC</b>	MR Credit 1.1-1.2 MR Credit 1.3 EQ Credit 4.1 ID Credit 1.1-1.4	Building Reuse Building Reuse 50% Interior Low Emitting Materials – Adhesives & Sealants Innovation in Design	<b>1-2 points</b> <b>1 point</b> <b>1 point</b> <b>1-4 points</b>
<b>LEED-CI</b>	MR Credit 1.2-1.3 EQ Credit 4.1 ID Credit 1.1-1.4	Building Reuse 40/60% Low Emitting Materials – Adhesives & Sealants Innovation in Design	<b>1-2 points</b> <b>1 point</b> <b>1-4 points</b>
<b>LEED-EB</b>	MR Credits 3.1 & 3.2 IUOM Credit 1	Optimize Use of IAG Compliant Products Innovations in Upgrades, Operations & Maintenance	<b>2 points</b> <b>1-4 points</b>

In addition to assisting with LEED certification, Vitrulan glass deco fabrics have garnered third-party certification under the Oeko-Tex Standard 100, putting them in the same category as “Textiles for Babies.” Textiles qualifying under this internationally registered mark:

- Do not contain allergenic dye stuffs
- Are free from formaldehydes or contain trace amounts significantly lower than the required legal limits
- Have a skin friendly pH
- Are free from chloro-organic carriers
- Have been tested for pesticides and chlorinated phenols
- Have been tested for the release of heavy metals under artificial perspiration conditions

From longevity to hygiene, Vitrulan makes it easy to do the right thing for your walls and for the environment. Vitrulan glass deco fabrics are the perfect choice to protect your walls and the planet.

### Ger-Eck, LLC

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