

## CONSTRUCTION

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### Heterogeneous vs. Homogeneous Sheet Vinyl

## Understanding Construction Choices for High-Performance Resilient Floors

At Mannington Commercial, we take pride in how our floors are made. Every product is crafted with premium materials and proven methods to ensure reliable performance for years to come. Because we manage the entire production process, we're able to deliver the consistency and craftsmanship our customers depend on.

We offer a range of resilient sheet constructions to help you meet the specific performance and aesthetic goals of your space. The needs of an operating room aren't the same as patient rooms, which is why we offer both homogeneous and heterogeneous sheet options. This guide will help you understand how the construction of your flooring affects performance and how to choose the best fit for your project.



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# What Is Resilient Sheet Vinyl?

Resilient flooring is a non-textile surface designed to provide comfort underfoot and recover from repeated traffic or compression. Sheet vinyl is packaged in rolls and installed as a continuous surface, creating a smooth, flexible floor that minimizes seams and simplifies maintenance.

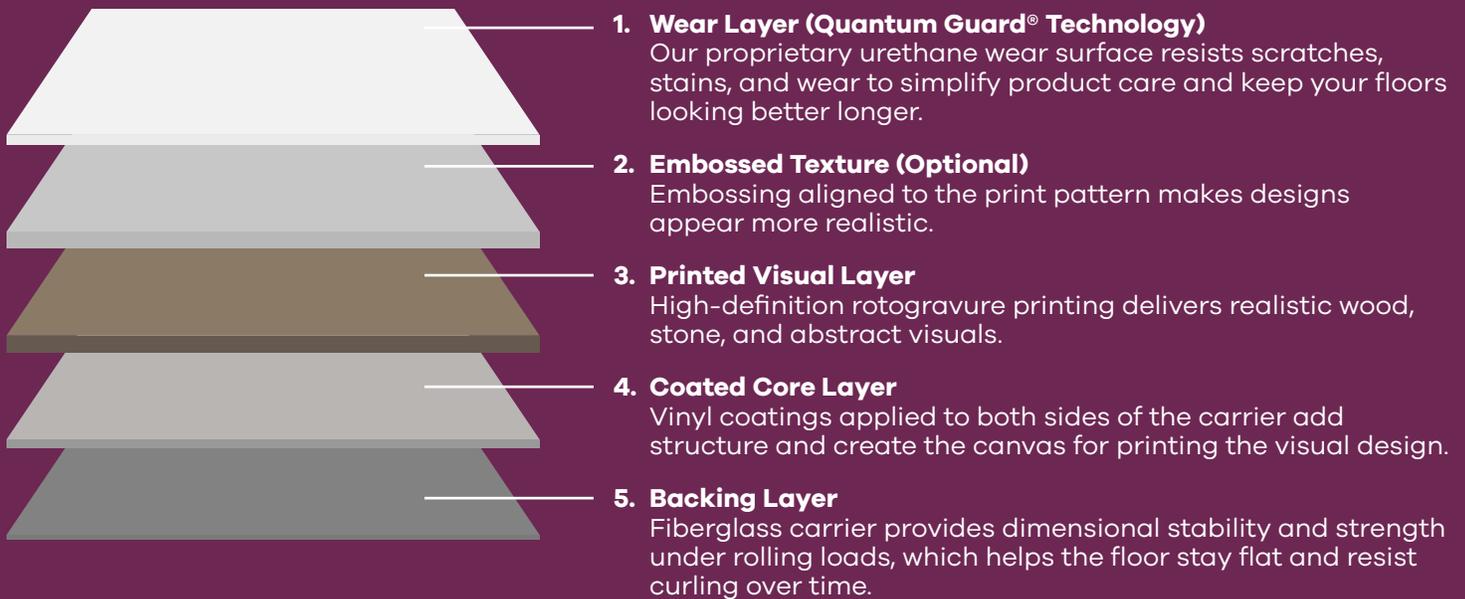
Resilient sheet vinyl is made in two primary constructions:

- **Heterogeneous sheet** – A multi-layer product with a decorative print layer that allows for a wide range of visuals, including wood, stone, and abstract designs.
- **Homogeneous sheet** – A single, uniform layer made of the same material throughout, with color and pattern extending through the entire thickness of the floor.

## What's the Difference Between Heterogeneous and Homogeneous Sheet?

Both types of resilient sheet vinyl are engineered for long-term performance. The difference lies in how they're constructed—and how that construction supports the needs of different spaces.

**Heterogeneous Sheet** | Multi-layered construction for design flexibility and durable performance



**Homogeneous Sheet** | Single-layer construction for infection control & enhanced slip resistance



## Heterogeneous vs. Homogeneous Sheet at a Glance

| FEATURE                          | HETEROGENEOUS SHEET                          | HOMOGENEOUS SHEET   |
|----------------------------------|--|---|
| <b>Construction</b>              | Multi-layer                                  | Single-layer, through-body  |
| <b>Visuals</b>                   | Printed wood, stone, or abstract visuals     | Chip visuals  |
| <b>Widths</b>                    | 6', 9', 12'                                  | 6'6" (2 m)  |
| <b>Infection Control</b>         | Suitable for general healthcare environments | Required for ORs, labs, and sterile spaces—but suitable for general lab, education, and healthcare environments |
| <b>Slip Resistance</b>           | N/A  | Integrated into construction for some products; enhanced slip-resistant options available                       |
| <b>Quantum Guard® technology</b> | ✓  | ✓   |
| <b>QuickStix®</b>                | ✓ (Available in 6' only)                     | ✓   |
| <b>Seam+Advantage</b>            | ✓  | ✓   |
| <b>Xpress Program</b>            | ✓  | N/A   |
| <b>Ideal Base</b>                | ✓  | ✓   |
| <b>Made in USA</b>               | ✓  | ✓   |
| <b>Warranty</b>                  | Limited 15-Year Commercial Warranty*         | Varies by product   |

\*City Hub has a Limited 10-Year Commercial Warranty.



# How Do You Choose the Right Construction?

Choosing the right sheet construction starts with understanding the performance demands of your project. Some spaces must meet strict infection control guidelines, while others may prioritize aesthetics, safety, or fast installation. Use this guide to help match your performance needs with the construction designed to meet them.

## Infection Control

- **Choose: Homogeneous Sheet**
- **Why:** Meets monolithic flooring criteria for infection control spaces as defined by the FGI Guidelines. Its single-layer, through-body construction eliminates internal layers where contaminants could penetrate or grow if the surface is damaged—making it the preferred choice for operating rooms and other sterile environments.
- **Best For:** Required for ORs, labs, and sterile spaces; also suitable for patient rooms and corridors.

## Design & Aesthetics

- **Choose: Either**
- **Why:** Our heterogeneous sheet offers printed wood, stone, and abstract visuals that can be used to achieve specific design goals for your space without compromising durability. Homogeneous sheet options can provide a subtle all-over visual while also meeting monolithic flooring criteria for infection control or providing enhanced slip resistance to prevent accidents
- **Best For:** Patient rooms and corridors.

## Slip Resistance & Safety

- **Choose: Homogeneous Sheet**
- **Why:** Available in enhanced slip-resistant versions for wet or high-risk zones.
- **Best For:** Scrub rooms, bathrooms, and any areas where water can end up on the floor consistently.

## Durability & Maintenance

- **Choose: Either**
- **Why:** Both constructions feature Quantum Guard® technology for scratch, stain, and wear resistance.
- **Best For:** General healthcare, education, and lab applications.

## Installation Efficiency

- **Choose: Either**
- **Why:** Heterogeneous sheet is available in multiple roll widths (6', 9', and 12') that reduce seam count, improve installation integrity, and lower overall labor costs. Wider rolls minimize welded seams, simplify corridor layouts, and allow seams to be positioned away from patient beds and heavy-traffic pathways. Our 6' heterogeneous and 6'6" homogeneous sheet products are available with QuickStix® pre-applied adhesive options. QuickStix helps reduce installation time and allows immediate occupancy—an advantage that is especially critical in areas like operating rooms, where downtime directly impacts hospital operations.
- **Best For:** Corridors and ORs.



## Why Mannington Commercial Resilient Sheet?

Every resilient sheet product from Mannington Commercial is built with the same commitment to quality, performance, and craftsmanship—no matter which construction you choose.

- **Proven Durability:** Quantum Guard® is our industry-leading urethane wear surface that delivers exceptional scratch, stain, and scuff resistance, helping floors maintain their appearance with less intensive maintenance.
- **Improved Infection Control:** Seam+Advantage™ enables hygienic, chemically welded transitions between surfaces, while IdealBase™ creates a weldable, up-the-wall sanitary transition—together supporting cleaner environments and reducing places where contaminants can collect.
- **Easy Installation:** QuickStix® speeds installation and allows immediate occupancy, reducing downtime for your space.
- **Faster Project Turnarounds:** Our Xpress Program provides rapid access to many of our most popular resilient sheet styles, helping fast-track projects stay on schedule without compromising design or performance.
- **Protects People and the Planet:** All heterogeneous homogeneous sheet feature non-ortho phthalate formulations, FloorScore® certification and published EPDs and HPDs to support healthier spaces and transparent material selection.
- **Made in the USA:** Mannington Commercial manufactures both heterogeneous and homogeneous sheet in the U.S. at our Salem, NJ facility. We are one of only a few domestic producers of heterogeneous sheet and the only commercial flooring manufacturer producing homogeneous sheet in the U.S., which ensures consistent quality control, reliable lead times, and the craftsmanship that delivers dependable performance across every project.
- **Performance Backed By Mannington Commercial:** Each resilient sheet product is supported by a commercial warranty specific to its construction and performance characteristics, providing confidence that your floor is protected for its intended use.

Learn more about Construction of Mannington Commercial products at [manningtoncommercial.com](http://manningtoncommercial.com).

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