

**WORLD'S FIRST BIOBASED  
HIGH PERFORMANCE TEXTILE**

Carnegie Xorel<sup>®</sup>  
BIOBASED





## Materials That Matter™

Great design should always go beyond great aesthetics, which is why Carnegie spent the last 70+ years championing responsible innovation and proving that beautiful and timeless high-performance textile solutions can be delivered sustainably. As the only B-Corp certified textile manufacturer, environmental stewardship is enshrined in our company DNA. We design products for the greater good of our clients and the planet, and that drove us to introduce Biobased Xorel® in 2013, building on the 42-year legacy of Xorel®, our proprietary textile.

**A RADICAL IDEA THAT KEEPS PUSHING FORWARD**





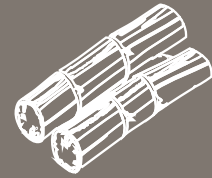
## World's First Biobased High Performance Textile

A major industry breakthrough, Biobased Xorel® is the **world's first plant-based commercial-grade textile** offering all of Xorel's legendary design and performance qualities, but made from plants.



# Planet-Loving Process

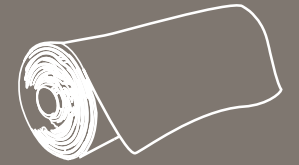
Sourced from rapidly renewable sugarcane, Biobased Xorel® is made with up to 91% plant content. It has a significantly lower environmental footprint than any fossil fuel-derived product, and lower than other bio-based sources such as beet or corn.



Sugarcane waste transformed into bio electricity to create bio-based PE pellets



Yarn is crafted using 95% biogenic energy



Yarn is made into biobased performance textile



**2.5**

Tons of Carbon Capture

For every 1 ton of raw material produced, sugarcane production captures and sequesters 2.5 tons of carbon, making it a **carbon-positive product**. It can earn significant LEED points in four material categories.



**91%**

Bio-based Content

While textiles can be labeled "bio-based" for containing just 25% of organic material, Biobased Xorel yarn contains up to 91%, **exceeding the minimum by over 66%**.



**100%**

PVC & Finish Free

Xorel is always 100% PVC-free; free of chlorine, plasticizers, heavy metals and toxic dyes, requiring no added finishes, coatings, or chemistry to perform.



**200**

Yards of Biobased Xorel

200 yards of Biobased Xorel® offsets the same amount of carbon dioxide as an acre of trees.



**100**

Yards of Biobased Xorel

100 yards of Biobased Xorel® saves the emissions equivalent of driving a car 580 miles.



# Certifiably awesome

Biobased Xorel® is the most thoroughly tested textile material on the market and exceeds industry benchmarks as the first and only textile to achieve Cradle to Cradle Gold and Living Product Challenge certification.



LIVING  
PRODUCT  
CHALLENGE™





# Functional versatility

Beyond its beauty, performance, and sustainable qualities, designers all over the world love Biobased Xorel® for its versatility. Available in a wide variety of designs and colorways, it can be knit, woven, or crocheted to fit infinite applications and surfaces. From rigid walls to architectural textiles, from artful acoustic panels to the dramatic shapes of modern furniture, Biobased Xorel® is proof that you can have it all in one product without compromise.



**Wallcovering**



**Indoor Outdoor**



**Upholstered Walls**



**Tackable Panels**



**Upholstery**



**Headboards**



**Acoustic Panels**



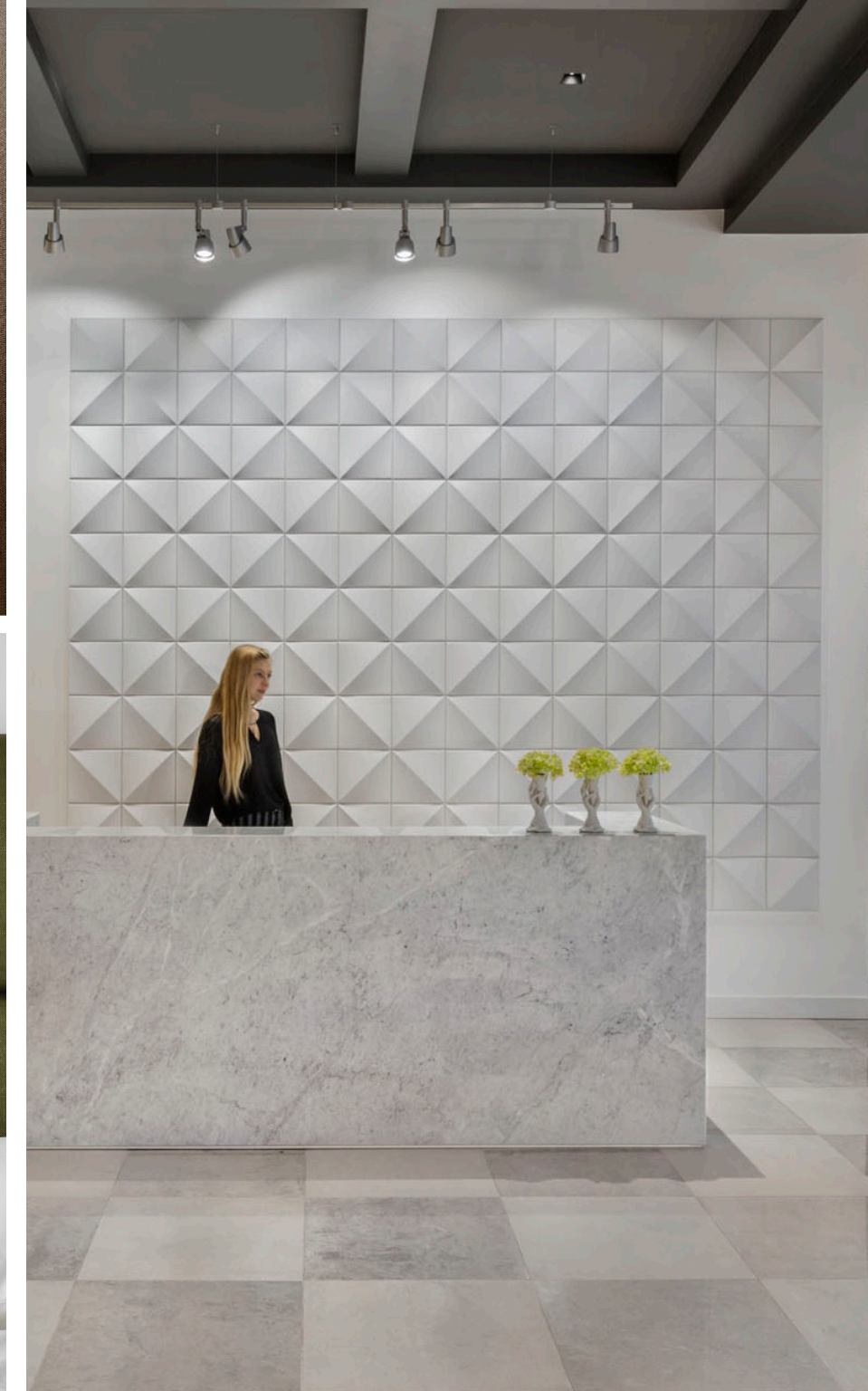
**Xorel Artform®**



**Architectural Textiles**



**Architectural Doors, Walls, Partitions**







Biobased Xorel® outperforms all existing bio-based textiles on the market and can serve in any industry.



**Healthcare**



**Hospitality**



**Multifamily**



**Workplace**



**Education**



**Marine (Non IMO)**



**Arenas**



**Entertainment**



# Legendary performance



## Durable & Tear Resistant

Stands up to abuse and tearing in high-traffic areas.



## Fade Proof & UV Resistant

The solution-dyed yarn does not fade from harsh cleaning products or prolonged light exposure.



## Tackable

Highly tackable yarns can “move back” into position.



## Performance without Finishes

All performance qualities are inherent to the yarn. Xorel contains no topical or chemical finishes.







# Effortless maintenance



## **Stain Resistant Yarns**

Liquid and stains do not penetrate the Xorel yarn, making cleanup a breeze.



## **Easy to Clean**

Can be hosed and aggressively scrubbed with solvent cleaners, diluted bleach (up to 40%), and many other hospital-grade disinfectant cleaners.



## **Inherently Antimicrobial**

Inherently antibacterial, anti-fungal, and anti-staph.



## **Barrier Backing option**

X-Protect barrier backing option prevents moisture from passing through.





Beautiful inside and out,  
Xorel stands the test of  
time in both aesthetics  
and performance—a  
textile solution you can  
always feel good about.







Xorel is third-party certified, extensively lab tested, and easy to install, ensuring that every client receives the highest performing, safest, and most environmentally responsible product on the market.





## Materials That Matter™



Carnegie is B Corp certified since 2014, ensuring ethical and responsible business practices.



Carnegie is a member of the Be Original organization, which protects original design.



The first and only 100% PVC-free company in the industry.



Safely disposable. Responsible End Of Life return program available.



Health Product Declarations (HPDs) issued for every single product.



### Third Party Certifications

- CRADLE TO CRADLE GOLD • LIVING PRODUCT CHALLENGE
- SCS INDOOR AIR ADVANTAGE GOLD • USDA CERTIFIED BIOBASED PRODUCT
- TUV AUSTRIA OK BIOBASED • ENVIRONMENTAL PRODUCT DECLARATION • GREEN SPEC

1-800-727-6770  
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