

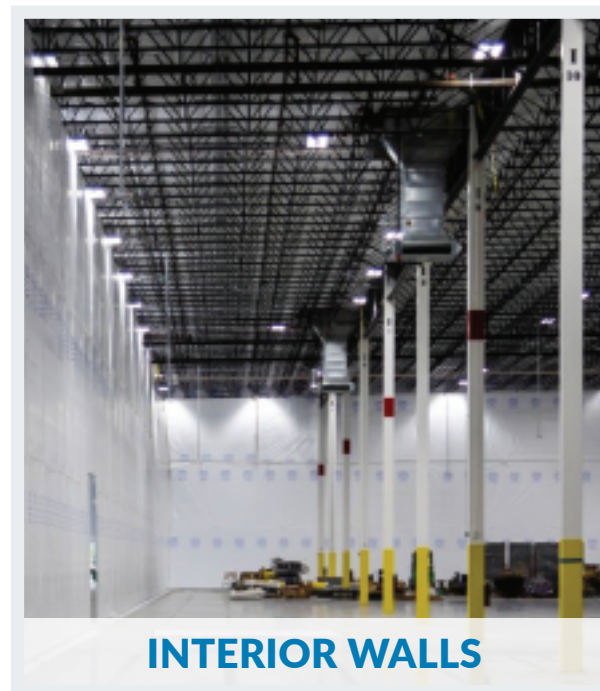


TuffWrap[®]
Protecting People, Products & Property

TEMPORARY CONTAINMENT SOLUTION SPECIALISTS

TUFF ON

DUST, DEBRIS & WEATHER



Specialists in Temporary Containment Solutions

TuffWrap® Installations is the North American leader in innovative temporary dust, debris, and construction containment solutions, keeping facilities operational and providing protection during construction. Specialists in Temporary Containment Solutions, TuffWrap® Installations provides suspended cover, interior walls, and exterior walls during re-roofing and renovation projects in the United States, Canada, and Mexico. With over 25 years of experience in flexible, individualized contamination solutions, the TuffWrap Project Team offers consistency, transparency, adaptability, and safety. In addition, only TuffWrap employees work on our job sites. Our “no subcontractor” policy means uniform safety training and enhanced product knowledge on every project. TuffWrap Installations’ pioneering solutions keep facilities safe and operational during construction.

Innovated by TuffWrap. Installed by TuffWrap.

Since 1999, TuffWrap Installations has been transforming the dust and debris containment industry with its market-leading interior protection solutions. The purpose of TuffWrap products and services has been to protect companies, their employees, and their inventories, from contamination, dust, and debris. TuffWrap has continued to lead the temporary containment industry by inventing new products and services that not only contain debris but also solve other issues like foul weather and facility shutdowns. TuffWrap services have expanded to include suspended cover, interior walls, and exterior walls. With our engineered products like SmartSeam suspended cover, we minimize liability exposure. Through code compliance and FM certification, a facility manager can be confident that employees and products are safe and operations are at maximum productivity.

TuffWrap focuses on the customer and meeting their needs. TuffWrap enables customers to avoid a complete shutdown of operation during construction. As companies run multiple shifts and even 24/7 production lines, the ability to minimize downtime is vitally important. The TuffWrap Project Team customizes its approach and creates solutions to address the specific requirements of each assignment. Experienced and knowledgeable about our industry and products, they solve issues that arise during construction projects. Safety, reliability, and best practices make the difference when it comes to protecting our clients' people, products, and property.

TuffWrap products enable a company's operations to stay functional during ongoing construction or renovation work. All TuffWrap materials are anti-static, antimicrobial, and fire-resistant. This makes TuffWrap products suitable for highly sensitive areas like data centers where anti-static properties are vitally important. While appropriate for many environments, the products' antimicrobial properties are important in the food and beverage and pharmaceutical industries. In addition, TuffWrap's SmartSeam suspended cover is 100% code compliant for installation below fire sprinklers. In case of a fire, SmartSeam keeps fire sprinklers operational. Engineered to be flexible and durable TuffWrap products can be customized to handle any application. TuffWrap protects people, products, and property while safely keeping facilities operational.

Setting Code Compliance Standards



TuffWrap® Installations Meets IAPMO's Code Compliance Standards. How do you know if a product is suitable for your intended use? When it comes to building products you shouldn't need to guess. TuffWrap knows what's required to meet IAPMO's code compliance standards for the industry.

IAPMO professional credentialing services and the company behind Uniform ES reports, provides a valid and reliable professional testing program to prove compliance with the code sections. These include flame and smoke performance, stability, and structural performance requirements.



Project Management Team

SAFETY, RELIABILITY AND BEST PRACTICES - OUR CLIENT RELATIONSHIPS ARE A PRIORITY

Committed to the Success of Your Project



SAFETY



FLEXIBLE SCHEDULING



COMMUNICATION



NO SUBCONTRACTORS



PROJECT MANAGEMENT

TuffWrap Project Managers utilize a customized approach to meet the specific requirements of each job. They bring leadership and organization to the Jobsite. These experienced, certified professionals improve efficiency, mitigate risks, and optimize resources.

Project Team - People Make the Difference. From the front of our office to the top of our lifts, TuffWrap employees are dedicated to providing the highest quality products and services. The TuffWrap® Project Management Team provides solutions to protect companies from dust and debris contamination during construction. We understand that no two projects are alike, and therefore customize our approach to meet the specific requirements of each assignment.

The TuffWrap® Installation Team brings you:

- A nationwide, regionally located, Sales and Project Management Team
- An expert Installation Team to meet your schedule and job size requirements
- An in-house Safety Program and full-time Safety Manager
- A dedicated Project Manager and Project Coordinator
- Proprietary Installation Methods



SAFETY FIRST

At TuffWrap® Installations
Safety is a Priority

RAISE THE
AWARENESS

At TuffWrap®, we refuse to settle when it comes to safety. That's why we have invested in multiple aspects of our business in order to keep our team and our work environment safe. As a result, TuffWrap's Safety Program crosses our entire company and incorporates everything from HQ standard procedures to worksite specific programs. Key requirements include:

- OSHA 10/30 hour training for crew and crew leaders
- Lift certifications
- FA/CPR training

In addition, we have implemented our own "Raise the Awareness" (RTA) program which is followed on each job site. Potential hazards specific to that job are reviewed with the crew. The crew acknowledges those hazards and reviews what to do to stay safe under those circumstances.

TuffWrap's Safety Manager oversees all of our safety programs and ensures they are properly developed, initiated and followed ongoing. We feel strongly that safety can't be addressed from HQ alone. Our Safety Manager is often on location making worksite safety observations and feedback a priority.

In our industry, meeting qualifications is essential. We are proud to say that we have our own in-house Safety Committee that works in coordination with our Safety Manager and is certified through the State of PA. In addition, TuffWrap is an ISNetwork Member Contractor.



Suspended Cover

100% CODE COMPLIANT SUSPENDED COVER

SmartSeam® meets IBC EC 043-2020; NFPA 13, ASTM E84 Class A; FM-4652; UL 723S compliance standards.

- | | |
|---|--|
|  CODE COMPLIANT |  ANTI-STATIC |
|  FLAME RESISTANT |  ANTIMICROBIAL |
|  HEAT REACTIVE SEAM |  STRONG 4-PLY MATERIAL |
|  PROTECTIVE DUST CAP |  INNOVATIVE SCRIM DESIGN |



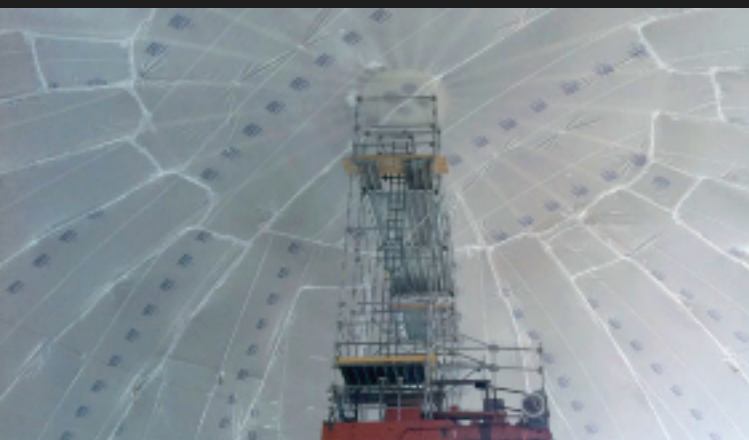
SUSPENDED COVER

Reroofing has its challenges, but dust and debris falling inside the building should not be one of them. Installing suspended cover helps to protect facilities from the variety of contaminants that result from reroofing activities.

Innovation in Dust & Debris Containment. SmartSeam® is a **100% compliant Suspended Cover**, approved to be installed **under fire sprinklers**. It meets the requirements of the International Building Code (IBC) Evaluation Criteria, **EC 043-2020**, for Temporary Ceiling Construction Barriers. Including the IBC's six categories of performance: quality, strength, effectiveness, fire resistance, durability, and safety. In addition, it meets the FM Approvals' unique stringent requirements and procedures established for a new class of materials (**FM-4652**). **The compliance of TuffWrap's SmartSeam®** indicates that the product is tested to the highest standards and maintains a consistent quality which can limit liability during a project.

SmartSeam® **keeps facilities safe** and **operational** during re-roofing and construction projects. Made from a four-ply material, six-mil thick polyethylene, SmartSeam® incorporates a diagonal and perpendicular scrim design to resist tearing and provide the highest puncture resistance and tear strength. In addition, TuffWrap is the only company in the industry that provides antimicrobial protection against mold, mildew, and bacterial growth and is anti-static to mitigate electrostatic discharges (ESD) to combat combustible dust. It is **flame-resistant**. The heat-reactive seam, made up of 6' x 5' panels, opens quickly to allow sprinklers to activate in case of fire. A **protective dust cap** over the heat-reactive seam provides extra dust and debris protection.





C.O.R.E. Frameless Walls®

SEAMLESSLY SEPARATE ANY WORK ENVIRONMENT FROM THE CONSTRUCTION ZONE

Secure Work Environments with Effective Barriers

- | | |
|--|--|
|  FLAME RESISTANT |  ANTI-STATIC |
|  ANTIMICROBIAL |  CUSTOM FIT |
|  INNOVATIVE SCRIM DESIGN |  STRONG 4-PLY MATERIAL |
|  NO STRUCTURAL SUPPORT NEEDED |  DOOR OPENINGS AVAILABLE |

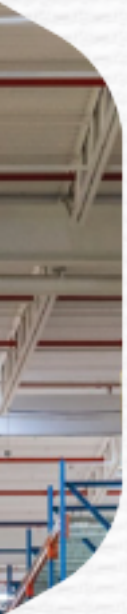


INTERIOR WALLS

Keep the workspace fully functional through the construction process with temporary interior walls. Interior Protection products prevent and control localized dust, debris, and damage from contaminating the Jobsite.

TEMPORARY WALLS – ANY PROJECT. ANY SIZE. ANY DURATION. TuffWrap's frameless walls are called **C.O.R.E. Frameless Walls®**: **C** – Cost effective; **O** – Original engineering; **R** – Resilient design; **E** – Efficient and versatile. C.O.R.E. Frameless Walls are customizable and safely separate manufacturing and operations from the construction zone. The temporary interior walls are anti-static, antimicrobial, and flame-resistant.

TuffWrap's temporary walls ensure that the workspace is fully operational through any remodeling or renovation. **C.O.R.E. Frameless Walls** are engineered in the **United States** by **TuffWrap Installations** to offer the **best dust and debris protection while avoiding downtime**. The temporary interior walls are quicker to install and more cost-effective than traditional solutions, which rely on expensive framing and labor-intensive materials like plywood.



Hybrid Walls and Industrial Hybrid Walls are two types of hybrid dust walls that provide stability and resilience in high-traffic areas. The temporary walls help maintain a professional appearance during construction and protect inventory in the warehouse and retail settings. Hybrid Walls combine a C.O.R.E. Frameless Wall with TuffWrap's rigid TuffPanel® and with or without a pre-manufactured metal brace. Hybrid Walls are modular in design for clean, easy installation.

Standard Hybrid Walls have a four-foot high TuffPanel base attached to the wall to protect against scuffs and punctures. TuffPanel® is designed for dust and debris containment applications requiring more rigidity and for areas with a large volume of personnel and equipment traffic. **Industrial Hybrid Walls** provide even greater strength and rigidity than the standard Hybrid Wall that uses TuffPanel. They are a combination of C.O.R.E. Frameless Walls and fire-resistant plywood, reinforced with eight-foot plywood sheets to accommodate areas with heavy foot or vehicle traffic.

Hybrid Walls

USED WHEN SEPARATING THE FACILITY FROM THE CONSTRUCTION ZONE IS NOT ENOUGH.

Hybrid Walls offer Extra Protection



FLAME RESISTANT



ANTI-STATIC



ANTIMICROBIAL



CUSTOM FIT



INNOVATIVE SCRIM DESIGN



STRONG 4-PLY MATERIAL



REINFORCED



DOOR OPENINGS AVAILABLE





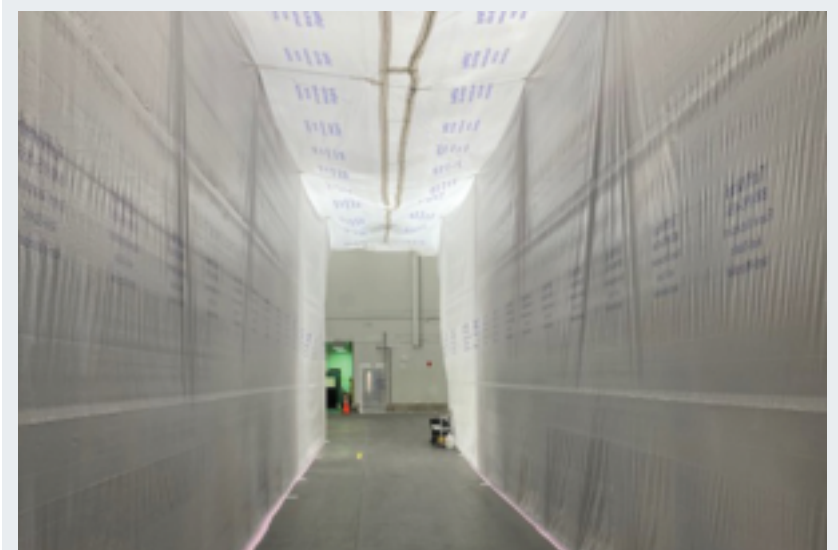
Total Enclosures

TuffWrap's Total Enclosures are the best solution to defend against dust and debris during construction. TuffWrap temporary interior walls and suspended cover are combined to create an enclosed workspace for industries where contamination, delays, and closures are a concern.

Benefits of using a **Total Enclosure Solution** include:

- Installed around the entire facility.
- Completely sealed around all penetrations.
- Antimicrobial, anti-static, and flame-resistant reinforced polyethylene.
- Code-compliant SmartSeam® combined with versatile C.O.R.E. Frameless Walls.

A **total enclosure offers versatility** in situations where conventional methods will not work. Combining the suspended cover and the dust wall provides a **total seal** for the affected area, providing **100% protection from dust migration**. Facilities that provide critical products and services must remain operational during construction. Innovative solutions like total enclosures and tunnels provide protection, keeping operations running safely during construction.





Construction Doors

Construction Doors enable crew and vehicles to move in and out of the worksite efficiently. Providing access points when installing dust and debris containment can be almost as important as the temporary walls themselves. TuffWrap offers customizations to temporary interior walls with construction doors, giving crews, personnel, and vehicles easy access to the worksite. From versatile zipper doors to sliding pocket doors or man doors, we've got the solution to allow facilities to operate during construction or repairs.

Benefits of **Construction Door Customizations** include:

- Scalable to a multitude of sizes.
- Designed to allow access without hindering protection.
- Quick and efficient for crews and vehicles.
- Available in different formats to best fit your job.

A **Pocket Door™** is a specialty door customizable to accommodate all types of access. Created specifically to meet your facility's requirements and assembled to slide easily out of the way and back into place, it complements any TuffWrap temporary wall. The Pocket Door has a customizable size range perfect for equipment and people for frequent or long-term use.

Zipper Doors are the most commonly used method to access a worksite during dust and debris containment. While they are easy and inexpensive to install, they are limited to temporary use. A quick solution when needed, the size is usually custom to accommodate machinery, vehicles like lifts, or people.

Man Doors are an option if the containment involves an area in the building that requires a locking door. Many facilities have security requirements for proprietary or employee-only access reasons. They provide easy access for people while allowing for greater security during the construction project.

TuffWrap EXT

TEMPORARY EXTERIOR WALLS THAT STAND UP TO THE WEATHER

Resilient Temporary Weather Barrier

- | | |
|---|--|
|  FLAME RESISTANT |  CUSTOM ENGINEERING |
|  PROTECTIVE WORK CREWS |  EXTENDED WORK SEASON |
|  INNOVATIVE SCRIM DESIGN |  STRONG 7-PLY MATERIAL |
|  UV RESISTANT | |



EXTERIOR WALLS

Extend the construction season and reduce weather downtime. TuffWrap EXT's resilient temporary weather barrier design ensures a secure hold during unexpected conditions and keeps a project on track.

Save time and money by reducing downtime between the phases of construction and eliminating weather interruptions — without the need for scaffolding. TuffWrap® EXT can **withstand steady wind of up to 30 miles per hour** and **brief gusts of up to 45 miles per hour**. It protects work crews with a **safe interior work environment against harsh weather** with a weather-resistant enclosure. The seven-layer polyethylene material provides the **highest puncture resistance and tear strength** for an exterior wall. If an accidental puncture occurs, the diagonal and perpendicular scrim orientation **resists tearing and continues to provide protection**.

Covering large openings and spans, Exterior Protection requires specialized installation. Each TuffWrap® EXT job is custom **engineered to fit** the project requirements. **Custom mounting hardware**, designed and manufactured by TuffWrap, allows **EXT** to be **installed almost anywhere**, even for **projects above 50 feet high**. EXT, an engineered seven-ply polyethylene, is flame and UV-resistant. Its innovative diagonal and perpendicular scrim design and antimicrobial properties protecting against mold, mildew, and bacterial growth make EXT the right choice to keep your projects on schedule and protected from foul weather.





CUSTOM APPLICATIONS

Each job site creates a unique set of challenges that require a custom approach to meet the job's requirements. We integrate our support materials to customize a Solution for Suspended Cover, Interior Walls, and Exterior Walls.

STATIC-SENSITIVE AREA PROTECTION. TuffWrap temporary containment solutions feature an anti-static additive to protect from Electrostatic Discharges (ESDs). TuffWrap offers a variety of solutions to keep your facility safe and productive when volatile dust and static pose serious risks.

HIGH STRUCTURE DUST REMOVAL (HSDR). HSDR services are commonly used during take down of suspended cover to remove project-related dust and debris from high, horizontal surfaces, avoiding additional problems.

NETTING. Debris Netting is a solution used when the threat of dust migration is not critical. It is a safe and reliable solution when chunks of the roof deck, insulation, or other materials may fall during the project and is not disturbed by airflow or outdoor elements. A combination of Special Netting and SmartSeam suspended cover is used to capture small particles and larger debris.

AIRFLOW VENTILATION. Dust and debris contamination within temporary walls and ceilings can affect air quality when controlling an environments airflow with ventilation. TuffWrap follows OSHA's standards for safety and health information about indoor air quality to create a solution that meets a job's unique requirements.

SKYLIGHT SAFEGUARD SYSTEMS. A skylight screen protection system can mitigate fall hazards when a facility needs safe and easy access to an elevated work area. TuffWrap follows OSHA regulations for the Skylight Safeguard Systems designed to custom fit the dimensions required for the project. Used with SmartSeam, it provides rooftop fall protection.

TUFFTAPE. TuffWrap's TuffTape™ protective containment tape seals out dust and dirt. It is an adhesive polyethylene tape used for sealing around protrusions, seams, and zippers.





TUFFWRAP® INSTALLATIONS. TUFF ON DUST, DEBRIS & WEATHER.

TuffWrap® Installations dust, debris, and construction containment solutions keep operations and production lines safe, clean, and productive during re-roofing, renovation and reconstruction projects. We offer a variety of temporary barrier and suspended cover products that are anti-static, antimicrobial, and flame resistant.

In our industry, **meeting qualifications is essential.** We are proud to say that we have our own in-house **Safety Committee** that works in coordination with our **Safety Manager** and is certified by the State of PA. In addition, TuffWrap® Installations participates in ongoing audits and recertification of the use of the approved materials. TuffWrap meets full compliance with **FDA, GMP, IBC EC 043-2020, UL 723S, NFPA 13-ASTM E84 Class A, and FM-4652 Approved.**



TUFFWRAP INSTALLATIONS INNOVATIVE PRODUCTS































Suspended Cover SmartSeam® • C.O.R.E. Frameless Walls® • TuffWrap® Hybrid Walls • TuffWrap EXT® Exterior Protection
 TuffWrap® Total Enclosure Solution • HSDR (High Structure Dust Removal) • TuffWrap® Functional Construction Doors

Suspended Cover SmartSeam®

C.O.R.E. Frameless Walls®

TuffWrap® Hybrid Walls

TuffWrap EXT® Exterior Protection

 CODE COMPLIANT	 ANTI-STATIC	 FLAME RESISTANT	 ANTI-STATIC	 FLAME RESISTANT	 ANTI-STATIC	 FLAME RESISTANT	 CUSTOM ENGINEERING
 FLAME RESISTANT	 ANTIMICROBIAL	 ANTIMICROBIAL	 CUSTOM FIT	 ANTIMICROBIAL	 CUSTOM FIT	 INNOVATIVE SCRIM DESIGN	 STRONG 10-MIL MATERIAL
 HEAT REACTIVE THREAD	 STRONG 6-MIL MATERIAL	 INNOVATIVE SCRIM DESIGN	 STRONG 6-MIL MATERIAL	 INNOVATIVE SCRIM DESIGN	 STRONG 6-MIL MATERIAL	 PROTECT WORK CREWS	 EXTEND WORK SEASON
 PROTECTIVE DUST CAP	 INNOVATIVE SCRIM DESIGN	 NO STRUCTURAL SUPPORT NEEDED	 DOOR OPENINGS AVAILABLE	 DOOR OPENINGS AVAILABLE	 REINFORCED		

TuffWrap® Installations, Inc.

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TuffWrap® Installations, North America's leading provider of innovative dust, debris, and construction containment solutions, is committed to customer satisfaction and safety. SmartSeam® is compliant with the International Building Code (IBC) and the International Fire Code (IFC). It is FM approved and UL classified for installations below the sprinkler systems and meets NFPA 13, ASTM E84 Class A.