Protecting Your Reputation

A Safer Way to Comply During Renovations

STARC®

STARCSYSTEMS.COM | (844) 596-1784

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Introduction

Renovations, while essential for growth and modernization, come with significant risks that extend far beyond dust and debris. For commercial builders, a poorly executed project can damage hard-earned professional reputations and lead to client dissatisfaction. For the organizations undergoing renovations—whether hospitals, airports, or commercial spaces—the stakes are even higher. Construction disruptions can tarnish their brand, upset occupants, and lead to costly downtime.

When lives, operations, and reputations are on the line, how do you ensure renovations proceed without creating lasting negative impressions? Success hinges on more than just meeting deadlines—it demands advanced solutions that address compliance, safety, and aesthetics while maintaining the highest standards of professionalism.

Fortunately, the evolution of temporary wall systems has made it possible to safeguard both builders' and property owners' reputations during even the most complex renovations. This eBook explores the key challenges of renovation projects, outlines the modern solutions available, and provides insights into how the right tools—like STARC's temporary construction walls—can make all the difference. Whether you're a builder or a project owner, this guide will help you ensure renovations are carried out safely, efficiently, and without reputational harm.

Quick Review

Early Options for Temporary Walls and Their Shortcomings

1 Drywall as Default Temporary Containment? No.

Drywall was an easy default since materials were onsite. However, when it comes to containing active jobsites, drywall falls short because it's:

- **DIRTY**
- **SINGLE-USE**
- **REQUIRES SKILLED TRADES**
- **COST/SUPPLY CHANGE**
- **ADDS DISPOSAL COSTS**

2 Plastic sheeting? No... Seriously, what were they thinking?

If the goal of temporary construction barriers is to contain dust, debris, and noise, then plastic sheeting falls short across the board. Aside from not doing a very good job at containing dust, plastic sheeting:

- **LOOKS AWFUL**
- **LEAKS DUST**
- **CREATES WASTE**
- **ADDS DISPOSAL COSTS**
- **DOESN'T REDUCE NOISE**

3 Um... your wall's fly is open. Pass.

Zippered walls took plastic sheeting up a notch (at least when workers remembered to zip them shut), but they failed to deliver a true containment solution for the same reasons:

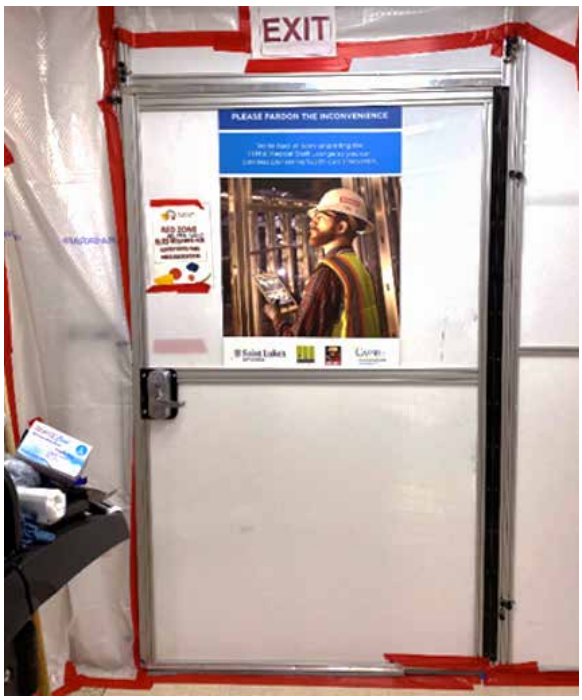
- **LEAKS DUST**
- **LOOKS AWFUL**
- **DOESN'T REDUCE NOISE**
- **SINGLE-USE**
- **ADDS DISPOSAL COSTS**

4 Corrugated plastic barriers? No, thanks.

Sure, corrugated plastic beats plastic sheeting and zippered walls. But it's flimsy material that cracks easily—and one crack is all it takes to compromise your containment. Corrugated plastic falls short because it:

- **LEAKS DUST**
- **DAMAGES EASILY**
- **FAILS INFECTION CONTROL**
- **LACKS AESTHETIC APPEAL**
- **NOT SUSTAINABLE**

5 Early hard barriers? Not so much.



Compared to drywall, plastic sheeting, zippered walls, and corrugated plastic, the early hard barriers that came to market were a step in the right direction. However, these barriers also fell short–for good reasons:

- **LACK FLEXIBILITY**
- **COMPLICATED TO SET UP**
- **POOR NOISE CONTROL**
- **VISUALLY UNAPPEALING**
- **LIMITED REUSABILITY**

UNDISRUPTED Protection

When the safety of building occupants matters most, these are the five key areas you need to consider.

STABILITY

All temporary construction walls need to be stable, but stability is especially important when working in areas featuring high ceilings, such as building lobbies, atriums, data centers, and more. Does your project require tall walls?

DUST + INFECTION CONTROL

Does your project take place in a setting that carries additional risk due to the presence of compromised or immobile patients? Examples include hospitals, assisted living facilities, memory care centers, etc.

NOISE BLOCKING

Does your project take place in a setting where controlling construction noise is essential? Examples include healthcare facilities, commercial offices, educational institutions, hospitality settings, and more.

PHYSICAL SECURITY

Does your project require working in a high-traffic environment such as a transportation hub, hospitality venue, or a hospital?

PASSIVE FIRE SAFETY

Does your project require a temporary barrier to contain fire and prevent it from spreading further?

Modern, Effective + Safe: Today's Temporary Construction Walls

With the advent of more durable and reusable temporary containment–beginning with the arrival of STARC's flagship RealWall™ system in 2014–Project Managers and Facilities Managers began to see the connection between this seemingly insignificant line item and the success of their multiphase projects.

Increasingly, contractors are recognizing the value of a high-quality temporary wall system extends beyond simple containment, streamlining building safety code compliance and delivering a simple tool for better customer experience, improved project profitability, stronger protection for building occupants (even in sensitive environments like healthcare), and greater sustainability.

Dust + Infection Control

Passive Fire Safety

Stability

Noise Blocking

Physical Security

How STARC's Industry-Leading Temporary Construction Walls Enable Easy Compliance With Key Building Safety Codes

FLAWED TO FLAWLESS

Need to protect building occupants or sensitive equipment from construction dust?

Dust + Infection Control

ASHE/ASHRAE | ICRA 2.0

Controlling the spread of dust and pathogens is critical in sensitive environments such as healthcare, as well as data centers, life sciences facilities, food processing plants, and more. Temporary wall systems that accommodate negative air panels are vital to dust and particulate control.

ASHE/
ASHRAE
ICRA 2.0

Dust Protection: For People and Equipment

In addition to protecting patients, caregivers, staff, and visitors, temporary construction walls protect sensitive equipment across numerous settings, including hospitals, data centers, laboratories, and manufacturing facilities.

PATIENT CAREGIVING

DATA CENTERS

RESEARCH LABS

SENSITIVE MANUFACTURING

Temporary Walls For Easy Compliance

Three of STARC's wall solutions–RealWall™, LiteBarrier™, and FireblockWall™–exceed ICRA IV/V recommendations, making them ideal for dust containment.

RealWall™

LiteBarrier™

FireblockWall™

Does your project environment require a higher degree of fire safety due to high occupancy, or the presence of immobile patients?

Passive Fire Safety

IBC | NFPA 101, NFPA 241, ASTM E84, ASTM E119

Fire safety is critical in all occupied settings, but especially in those environments which may carry an elevated risk due to the presence of compromised patients, such as hospitals, assisted living facilities, and high-rise buildings.

IBC
NFPA 101
NFPA 241
ASTM E84
ASTM E119

Solving for Smoke and Flame Spread

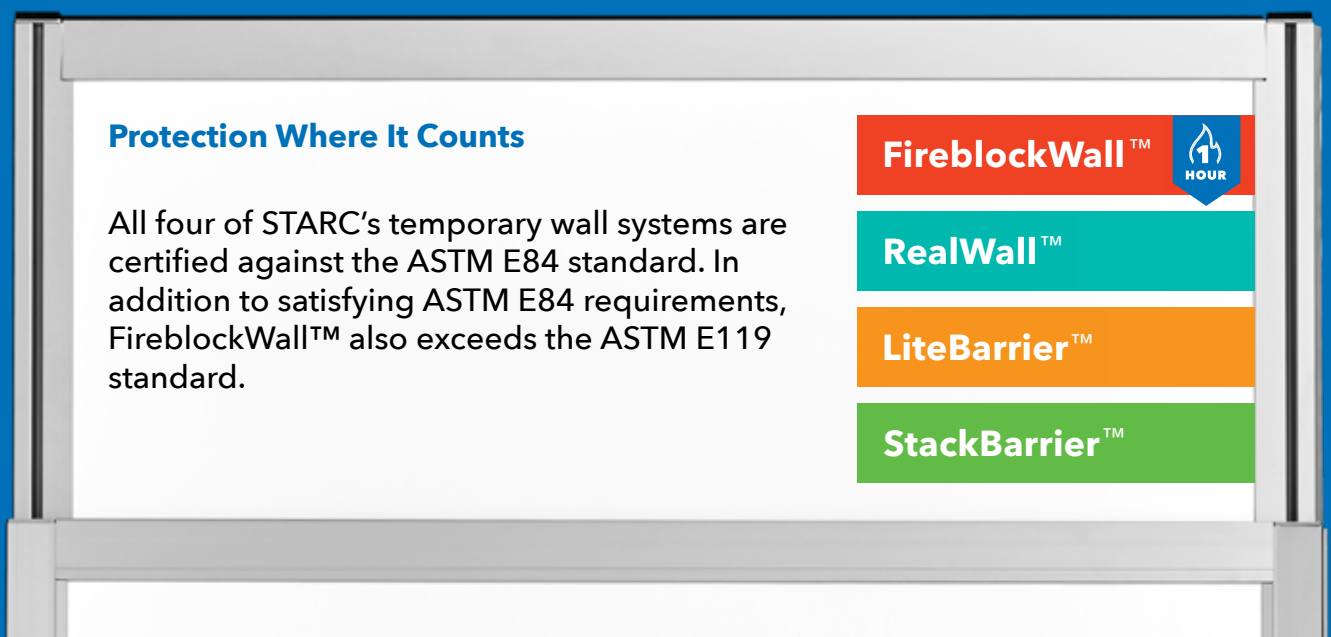
Fire alarms, extinguishers, hoses, and sprinkler systems are great for active fire protection. However, temporary walls that achieve passive fire safety ratings are critically important, too, because they prevent smoke and fire from spreading to other areas.

IMMOBILE PATIENT

HIGH OCCUPANCY

INACTIVE SPRINKLER

HIGH-RISE BUILDINGS



Protection Where It Counts

All four of STARC's temporary wall systems are certified against the ASTM E84 standard. In addition to satisfying ASTM E84 requirements, FireblockWall™ also exceeds the ASTM E119 standard.

- FireblockWall™ 1 HOUR
- RealWall™
- LiteBarrier™
- StackBarrier™

Need to meet structure and bracing requirements to support a temporary wall?

Stability
IBC 1607.15 | ASTM E72

Particularly relevant to construction environments featuring tall walls, these codes define the minimum design requirements, so the structural components are able to resist the loads that are likely to be applied. Per IBC 1607.15, interior walls and partitions exceeding six feet in height, including their finish materials, must have adequate strength and stiffness to resist the loads they are subjected to—but not less than a horizontal load of 5psf (0.240 kN/m2).

STARC evaluates the strength and stiffness of its walls by applying loads to the panel and measuring the deflection. With StackBarrier™, an ASTM E72 test was performed to further assure stability at heights ranging from eight feet to 32 feet.

IBC
1607.15
ASTM E72

Flexible + Solid: Stability Where It's Needed

Meeting the IBC 1607.15 and ASTM E72 codes ensures that temporary walls are structurally sound and safe for workers and building occupants. These safety codes help maintain wall integrity, especially under stress or environmental changes on jobsites. They come into play whenever walls must bear loads or brace against lateral forces, ensuring compliance with safety regulations.

STACKED PANELS

FREESTANDING RUNS

EXTENSIONS

BRACING

Engineered With a Safety-First Mindset

All four of STARC's temporary wall solutions–RealWall™, LiteBarrier™, StackBarrier™, and FireblockWall™–meet critical structure and strength requirements.

- StackBarrier™
- RealWall™
- LiteBarrier™
- FireblockWall™

Do you need to keep construction noise from disrupting your project owner's normal operations?

Sound Attenuation

IBC | ASTM E90

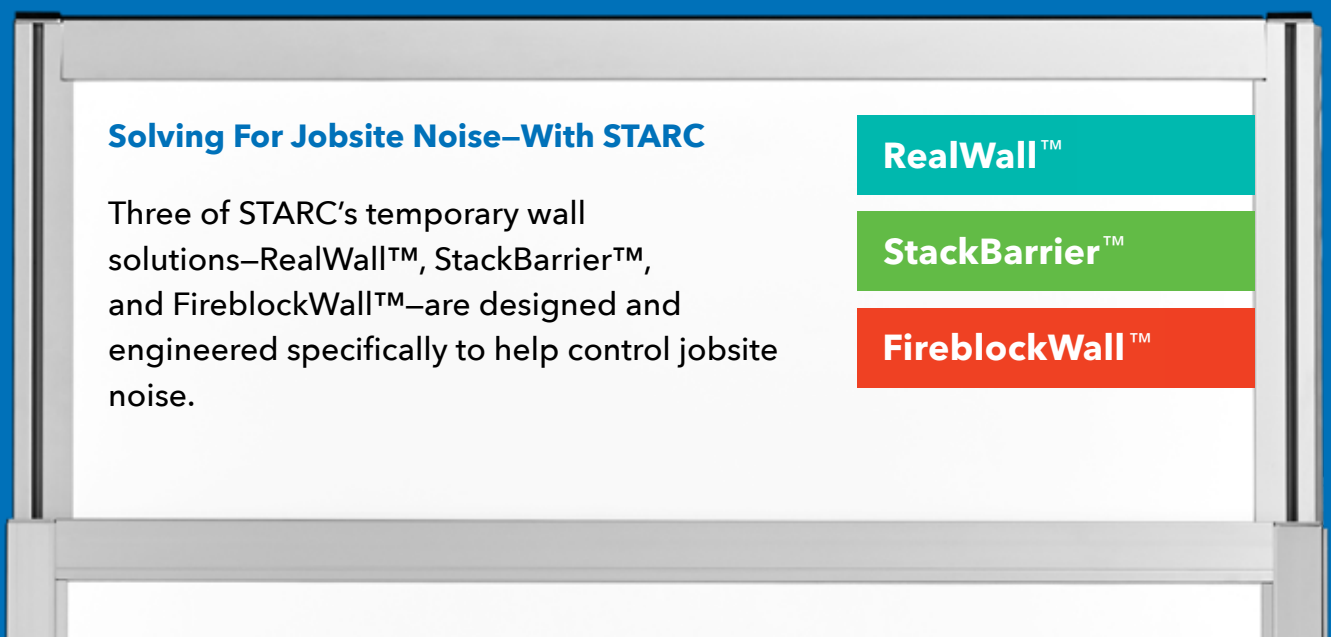
During occupied renovations, managing the noise level is part of the job. ASTM E90 measures how well a building element, such as a partition, transmits sound, and then assigns a Sound Transmission Class (STC) value to it. If your goal is to limit the disruption of construction, it's important to choose a temporary wall that's designed to reduce noise.

IBC

ASTM E90

Maintaining Business As Usual

Whether working around patients, air travelers, office workers or others, your client's goal is the same: provide a renovation experience that delivers necessary repairs or improvements without inconveniencing building occupants. Blocking construction noise is a vital part of that effort.



Solving For Jobsite Noise–With STARC

Three of STARC's temporary wall solutions–RealWall™, StackBarrier™, and FireblockWall™–are designed and engineered specifically to help control jobsite noise.

RealWall™

StackBarrier™

FireblockWall™

Does your high-traffic project require restricting access to protect visitors and crew?

Physical Security

Restricting access to construction areas is always a top priority. Especially in high-traffic areas, such as airports, hotels, commercial offices, or universities, active jobsites need to be secured for the safety of building occupants and to guard against the threat of bad actors.

Securing Jobsite Access

Locking doors protect staff, visitors, and the construction crew alike, ensuring a safe, professional renovation for your project's owner.

SECURE JOBSITES

HARDWARE OPTIONS

LOCKING DOORS

Physical Security Made Easy

All four of STARC's temporary wall systems–RealWall™, LiteBarrier™, StackBarrier™, and FireblockWall™–accommodate a variety of electronic and mechanical locking options, making them an excellent choice when physical security is a key consideration.

- FireblockWall™
- RealWall™
- LiteBarrier™
- StackBarrier™

A Solution for Any Situation

RealWall™

Less noise.
More stable.

- Real wall appearance & stability
- Reduces noise up to 50%
- Unmatched durability

LiteBarrier™

Lighter weight.
Extra durable.

- Lightweight
- Very durable
- Lower up-front costs

FireblockWall™

Stops fire.
Saves time.

- One-hour fire-rated assembly
- Up to 4X faster to install
- Superior noise blocking

StackBarrier™

More height.
More versatility.

- Tall builds. 8-32 feet
- Versatility
- ASTM E-84 Certified

	DUST + INFECTION CONTROL	STABILITY	NOISE BLOCKING	PHYSICAL SECURITY	PASSIVE FIRE SAFETY	
					ASTM E84	ASTM E119
RealWall™	✓	✓	✓	✓	✓	
LiteBarrier™	✓	✓		✓	✓	
StackBarrier™	✓	✓	✓	✓	✓	
FireblockWall™	✓	✓	✓	✓	✓	✓

STARC®

UNDISRUPT RENOVATION.™

About STARC

STARC temporary construction walls have the flexibility to handle any containment challenge. We provide wall systems that are customizable, and meet the strictest regulations for health and safety. All of our products are backed by our best-in-class customer service.

Contact us today and one of our team members will help you identify the best wall for your project.

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