

To: Airport Emergency Management Department

Subject: Portable Shelter Systems for Airport Emergency Preparedness & Passenger Care

Rather than having passengers sleep throughout terminals and concourses, airports can establish organized sheltering zones that improve safety, passenger comfort, sanitation, and operational control.

AIRPORT EMERGENCY SHELTER SYSTEM

RAPID. PRIVATE. INSULATED. DEPLOYABLE.

A smarter solution for stranded passengers and airport emergency operations. New material, 2" thick walls that stand up to hits with a baseball bat!

Compact, insulated shelters that deploy in minutes to provide **privacy, comfort and safety** during airport disruptions.

SHELTER FEATURES

THERMAL INSULATION
Comfort in extreme heat or cold

RAPID DEPLOYMENT
Operational in minutes

NOISE REDUCTION
Insulated walls reduce ambient noise

WASHABLE & REUSABLE
Easy to clean and sanitize

COMPACT STORAGE
Folds into rolling bag for efficient storage

NON-TOXIC MATERIALS
Safe for families, children, seniors and all travelers

DEPLOYED INSIDE TERMINAL - GATE AREA

- Creates organized shelter zones
- Improves passenger safety and comfort
- Reduces congestion and liability exposure
- Enhances operational control

DEPLOYED IN PARKING STRUCTURE - MASS CANCELLATION EVENT

- Scalable for large events
- Protects passengers from elements
- Supports airport staff and first responders

SPECIFICATIONS

7' Tall

9.8' Wide

- Durable
- Weatherproof
- Buoyant
- Insulated
- High Performance
- Sleeps 2-4 people
- Weight 72 lbs.
- Indoor/Outdoor
- Stays up for weeks

COMPACT STORAGE

47" TALL

26" WIDE

Comes in Roller Bag

COST COMPARISON EXAMPLE

SCENARIO	ESTIMATED COST
500 passengers - 1 hotel night @ \$200/night	\$100,000
500 passengers - 2 hotel nights @ \$200/night	\$200,000
500 passengers - 3 hotel nights @ \$200/night	\$300,000
Purchase 50 emergency shelters	-\$250,000
Purchase 100 emergency shelters	-\$500,000

\$ A single major disruption can cost as much as a shelter inventory that remains available for years.

STRONGER PREPAREDNESS
Be ready for severe weather, power outages, system failures, and mass cancellations.

BETTER PASSENGER EXPERIENCE
Provide privacy, comfort and dignity when travelers need it most.

REDUCED RISK & LIABILITY
Organized sheltering reduces safety, security and sanitation concerns.

MORE RESILIENT
Invest in a solution that strengthens operations today and in the future.

As severe weather events, infrastructure disruptions, cybersecurity incidents, power outages, and large-scale flight cancellations continue to affect airports worldwide, airports face increasing pressure to provide safe, organized accommodations for stranded passengers during operational emergencies.

During major disruptions, travelers often sleep on terminal floors, occupy gate areas, and create congestion that places additional strain on airport operations, security personnel, janitorial services, and customer service teams. We respectfully propose an evaluation of a fleet of rapid-deployment insulated emergency shelters designed specifically for temporary occupancy during airport emergencies and mass-traveler disruptions.

Each shelter provides a private, weather-proof environment for stranded passengers, families, airport personnel, or emergency support staff. The shelters can be deployed indoors within terminals, baggage claim areas, conference spaces, and emergency staging facilities, or outdoors in parking structures, parking lots, and designated response areas. When not in use, each shelter collapses to fit into a roller bag for efficient storage within existing airport facilities.

Shelter Features

- High-performance; stays inflated for weeks (no fan required), thermal insulation for comfort during extreme heat, cold, wind, rain, snow and other adverse weather
- Noise reduction for improved passenger rest and comfort
- Rapid deployment within minutes by airport, emergency management personnel, or (due to ease of use) untrained volunteers
- Compact storage in XL roller bags, or shipping box 44" x 23" x 13".
- Power-washable and reusable construction for long service life
- No-BPA materials; suitable for families, children, seniors, and vulnerable populations

Operational Benefits for Airports The shelters provide immediate accommodations during:

- Severe weather disruptions
- Extended flight delays and cancellations
- Power outages and IT failures
- Security incidents
- Regional disasters affecting passenger movement
- Emergency evacuations or terminal closures

Rather than having passengers sleep throughout terminals and concourses, airports can establish organized sheltering zones that improve safety, passenger comfort, sanitation, and operational control.

Reduced Liability and Risk Exposure Organized temporary sheltering can help reduce:

- Slip-and-fall incidents
- Congestion in passenger circulation areas
- Blocked emergency egress routes
- Security vulnerabilities
- Sanitation concerns
- Passenger complaints and negative media attention

The shelter system demonstrates a proactive commitment to passenger care while strengthening airport resilience and business continuity.

Multi-Purpose Emergency Asset: Beyond passenger accommodations, the shelters can support:

- Emergency Operations Center overflow
- Incident Command personnel
- Mutual aid teams
- First responder staging
- Disaster recovery operations

This dual-use capability maximizes the value of the investment while expanding airport emergency preparedness resources.

Financial and Operational Comparison: Is It More Cost-Effective to Own Emergency Shelter Capacity?

Major weather events, IT outages, infrastructure failures, or mass-cancellation events can leave hundreds or thousands of passengers stranded at airports, which are often forced to rely on hotel accommodations or improvised terminal lodging arrangements. A single large-scale disruption requiring multiple nights of hotel accommodations can approach the cost of a reusable shelter inventory that remains available for years.

Scenario	Estimated Cost
500 stranded passengers × 1 hotel night @ \$200/night	\$100,000
500 stranded passengers × 2 hotel nights @ \$200/night	\$200,000
500 stranded passengers × 3 hotel nights @ \$200/night	\$300,000
Purchase 50 reusable emergency shelters	~\$250,000
Purchase 100 reusable emergency shelters	~\$500,000

Operational Comparison

Factor	Hotel Rooms	Emergency Shelters
Available immediately at airport	No	Yes
Transportation required	Yes	No
Deployment time	Hours	Minutes
Reusable	No	Yes
Airport-controlled resource	No	Yes
Scalable during mass events	Limited	Yes
Supports emergency personnel	Limited	Yes
Useful for future disasters	No	Yes

Recommended Pilot Program: Initial Deployment: **50 Shelters**. Approximate Investment: **\$250,000**

Benefits:

- Immediate deployable sheltering capability
- Airport-controlled emergency response resource
- Improved passenger care and dignity
- Reduced operational disruption during major incidents
- Reusable resilience infrastructure with long service life

Recommendation We recommend that airports evaluate a pilot deployment of portable insulated emergency shelters as part of its emergency preparedness and business continuity planning efforts. A strategically sized inventory would provide an immediately deployable sheltering capability for stranded passengers, emergency personnel, and disaster-response operations while improving passenger care, reducing operational disruption, and enhancing airport resilience. We would welcome the opportunity to provide a demonstration and discuss how these shelters could be incorporated into your emergency response plans.

Thank you for your consideration.

Sincerely,

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The company inspiration:

"We could get men to the moon but couldn't get shelter to earthquake survivors who would freeze that night."