



▶ BLAST RESISTANT AIR SHELTERS

One Company, One Call, Countless Solutions.



▶ Industry Need

The risk of process plant gas vapor explosions has elevated personnel safety to the forefront of every facility's priority list. Deaths and injuries caused as a result of these explosions have led to a drastic change in thinking, leading to new standards. Every facility now makes it a clear priority to protect its most valuable asset: its people. The American Petroleum Institute (API) recognized the need for protection and adopted guidelines for locations of temporary shelters, known as the API 756 Recommended Practice.

Solving the problem of craft working in blast zones while minimizing craft productivity losses is difficult, but AMECO has the solution.

▶ The Solution

AMECO, in partnership with Dynamic Air Shelters, addresses the need for protection with blast resistant air shelters. These air-inflated shelters provide the innovative design and technology necessary to shelter at-risk workers in a potential blast zone.



The blast resistant air shelters offered by AMECO are approved by the API 756 Best Practices Committee.

▶ Blast Resistant Air Shelters Features

- Standard blast resistant air shelters are currently rated for up to 4 psi blasts and, with specific options, can be modified for up to an 8 psi blast.
- Extensive engineering and field testing¹ has proven the capabilities of these shelters under blast conditions. Field testing performed not only supports the engineering data, but shows that the shelter is capable of withstanding higher-pressure blast waves, at times in excess of 4 psi.
- Safe design, entirely non-rigid structure.
- Open, bright atmosphere compared to rigid modular structures.

¹Detailed documentation on engineering data and field testing is available upon request.



▶ Delivering Integrated
Mobile Equipment and
Tool Solutions to
Industry Worldwide.





▶ Additional Features

- Fire resistant to meet NFPA 701 (USA) code and ULC S109 (Canada).
- Weather resistant to withstand wind speeds up to 80 mph (130 kmph).
- Certified to withstand a Category 5 hurricane.
- Certified to remain secure under elevated snow load conditions.
- Ease and speed of installation, portable, versatile, and quiet.
- Shelter-in-place (SIP) capabilities based on client risk rating where gas vapors are present.

▶ Blast Resistant Air Shelters Benefits

Project Savings	<ul style="list-style-type: none"> • Projects can achieve 8 to 12 percent savings on labor costs due to placement of personnel at or near the work site for safety meetings, breaks, and meals, thus reducing or eliminating travel time to and from the site.
Thermal Protection	<ul style="list-style-type: none"> • A layer of air in the inner and outer liners of the shelter creates a thick, insulating barrier against thermal waves. • Recommendations can be made with a site analysis on shelter placement in relation to blast zones and flare stacks.
Craft Retention	<ul style="list-style-type: none"> • Aesthetically pleasing and non-confining. • Increased productivity for site work. • Bright interior.
Versatility	<ul style="list-style-type: none"> • Shelters size from 400 to 40,000 square feet. • Withstands temperatures ranging from -50° F to 150° F (-45°C to 60°C). • Internal climate control: Uniform distribution of heat and/or cooling.
Applications	<ul style="list-style-type: none"> • Lunch rooms. • Meeting rooms. • Supervisory offices. • Shelter-in-place options.
Long Life Span	<ul style="list-style-type: none"> • Fabric warranted for 10 years useful life with proper maintenance.

▶ Contact

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