

HUNTSMAN

Enriching lives through innovation

Spray Polyurethane Foam (SPF)

High performance insulation for energy efficient buildings



www.huntsman.com/insulation

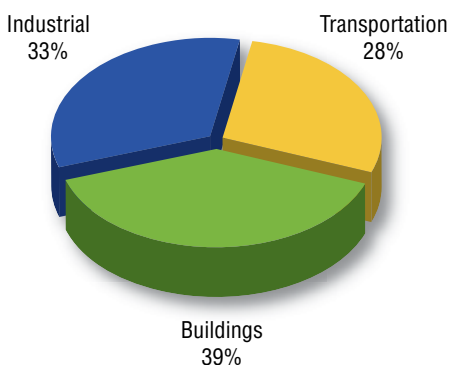
The Army and SPF at home

An energy saving, sustainable solution

BUILDINGS ACCOUNT FOR THE LARGEST US ENERGY DEMAND

US energy usage by sector

Source: DOE/EIA



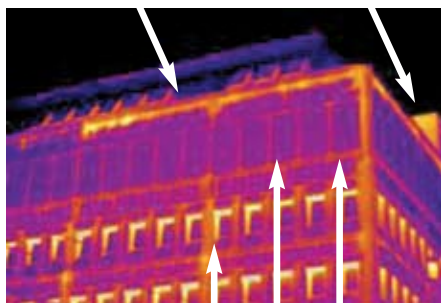
- 39% of US energy demand goes into buildings
- The military is one of the largest energy users
- Heating and cooling account for 40% of a building's energy load
- 40% of the heating and cooling load is wasted due to air infiltration
- Better Building Envelopes are key

NEW MANDATORY AIR TIGHTNESS STANDARD FOR MILITARY BUILDINGS

SPF is an effective way to meet this standard

- More practical vs. coatings or films
- Easily pass blower door test
- Highest R-value
- ROI typically less than 5 years
- Durable

Air Infiltration Un-insulated stairwell



Thermal Bridging from metal studs + structural members

Wood frame walls



Exterior SPF onto CMUs



Metal roofing



Built-up roofing

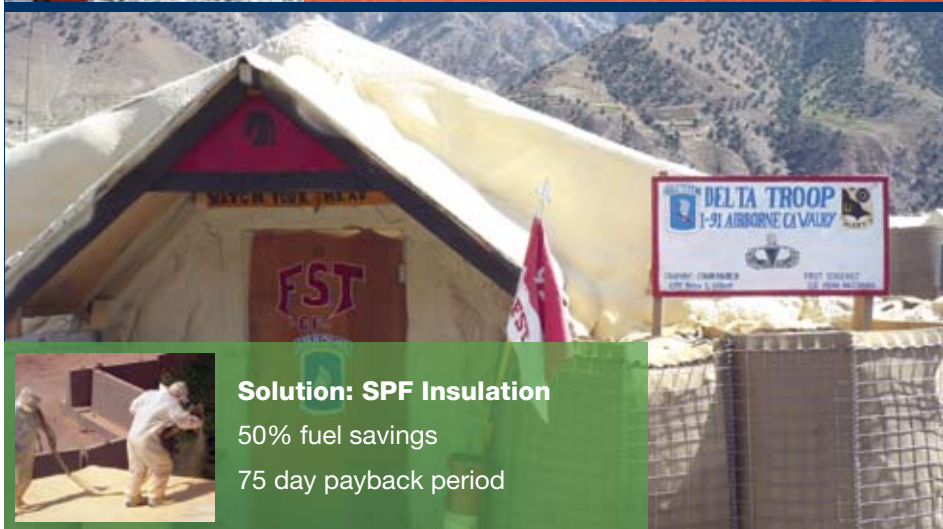
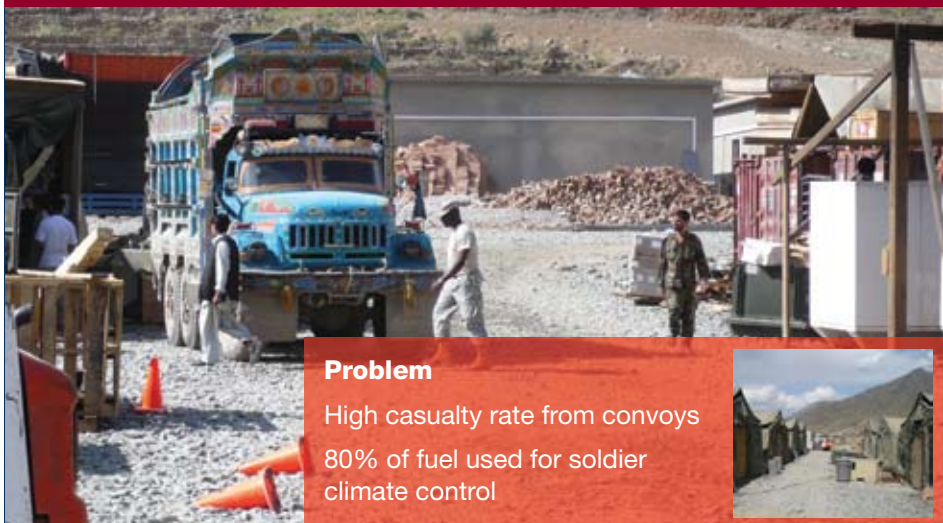


Under roof decks



The Army and SPF in theater

Saving energy and money, providing soldier comfort



Camp Victory in Baghdad, Iraq

Before SPF

8 AC units

92°F

After SPF

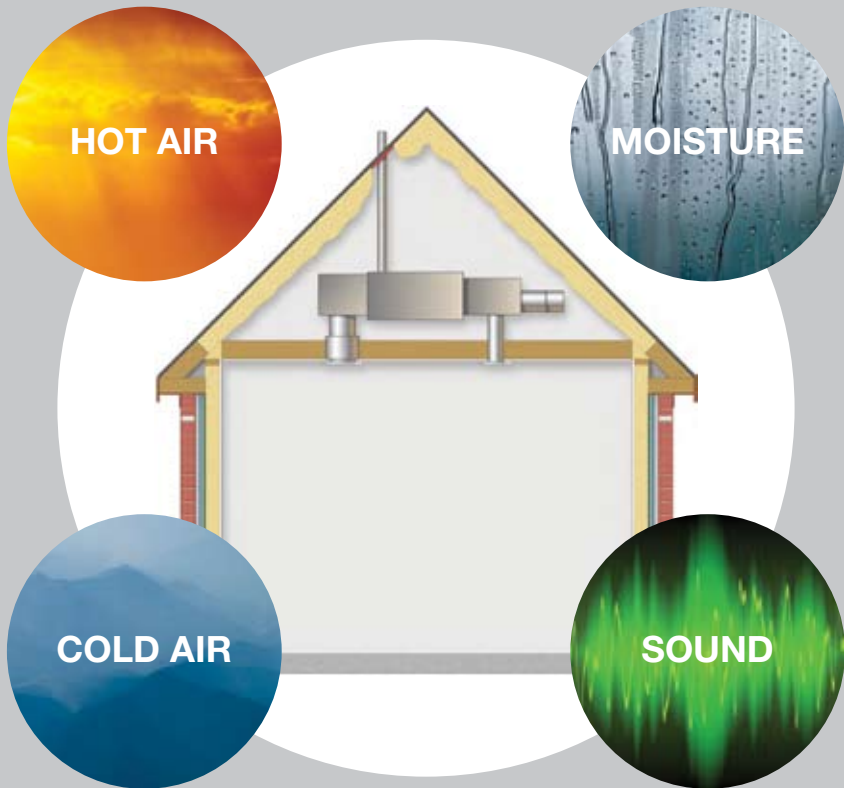
2 AC units

70°F



Spray Polyurethane Foam (SPF)

High performance insulation for energy efficient buildings



SPF insulation can help:

- Reduce heating and cooling costs by up to **50%**¹
- Increase wind uplift resistance by more than **300%**²
- Create an air barrier for the building system

www.huntsman.com/insulation
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¹ vs. traditional fibrous insulation

² vs. common roof deck attachment methods

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