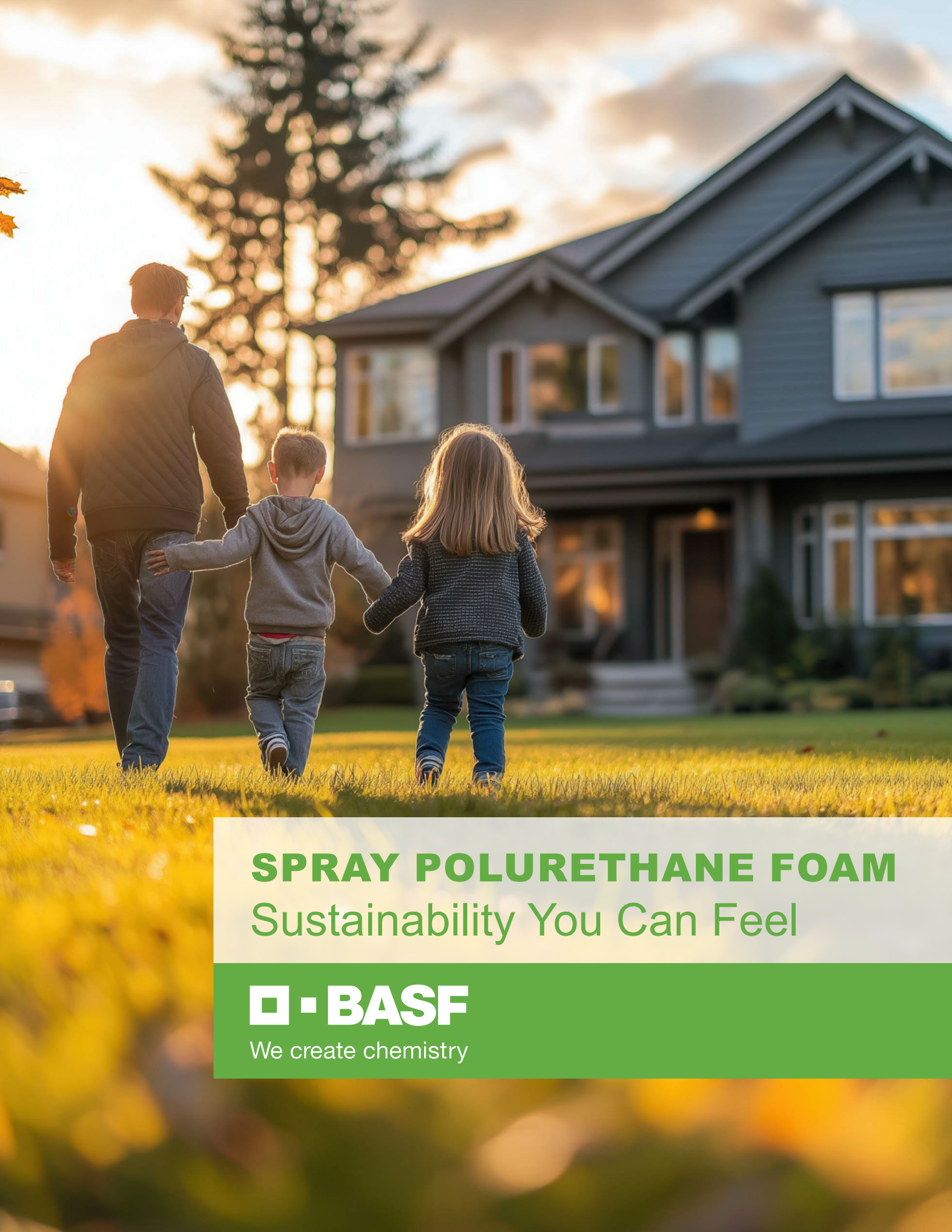


SPRAY POLURETHANE FOAM

Sustainability You Can Feel

BASF

We create chemistry

Spray Polyurethane Foam

Caring for People, Sustaining the Planet

Transform your home or building with spray polyurethane foam (SPF) insulation, an energy efficient, durable and cost-effective solution. Whether you're a homeowner seeking improved comfort, a builder focused on quality or an architect designing for the future, BASF's spray foam offers the perfect balance of performance and environmental responsibility.

Our Products Are Formulated With You in Mind

Improved Indoor Air Quality (IAQ) and Energy Efficiency

Spray foam expands upon application, filling gaps and cracks with high R-values and near-zero air permeability, which is superior to conventional insulations. This creates an airtight barrier against the infiltration of allergens, outdoor pollutants and moisture while also ensuring optimal thermal resistance. This effective combination minimizes heat transfer while also helping to control condensation.

Reduced Environmental Impact

BASF took an aggressive approach to evolve our closed-cell chemistries and transition to low global warming potential (GWP) formulas. In addition, our spray foams incorporate recycled and bio-based materials, contributing to a more circular economy, where waste is used as a resource in new products.

Smart Choices, Affordable Outcomes

The long-term energy savings of BASF spray foam outweighs the initial investment. Spray foam helps reduce heating and cooling expenses over the life of the building, resulting in significant savings and a lower total cost of ownership.

Greater Durability and Resiliency

Closed-cell SPF insulation increases structural integrity, reinforcing walls and roofs for increased durability. These qualities make spray foam the reliable choice in severe weather- and flood-prone areas. By extending the lifespan of buildings and reducing the need for frequent repairs or replacements, spray foam minimizes material waste and the environmental impact of construction overtime.

Improve Comfort & Quality While Lowering Energy Costs

From attics and ceilings, to walls, basements and crawlspaces, spray foam is an essential component in maintaining indoor temperatures, keeping you comfortable year-round while saving you money.

WALLTITE® closed-cell spray foam insulation from BASF combines high R-values with near-zero air permeability. The resulting fully adhered, seamless insulating layer results in reduced conductive heat loss, lessening the load on HVAC systems. This adds up to mechanical cost savings, less maintenance down the road and reduced greenhouse gas emissions. In addition, the high R-value per inch saves valuable space as you can achieve higher R-values in smaller cavities.

ENERTITE® open-cell spray foam insulation from BASF has an R-value range closer to that of conventional insulations. However, open-cell foam thoroughly fills spaces and adheres to surfaces, creating a tighter, more seamless fit for the life of the structure. ENERTITE also controls noise for a quieter home.

KEY SPRAY FOAM ATTRIBUTES

- Tight, seamless fit
- Does not sag or settle over time
- Durable, long-term insulation performance
- Controls sound transmission
- Air-impermeable insulation at as little as 1"
- No R-value degradation due to air movement

Energy Savings with Spray Foam Insulation in Phoenix Community

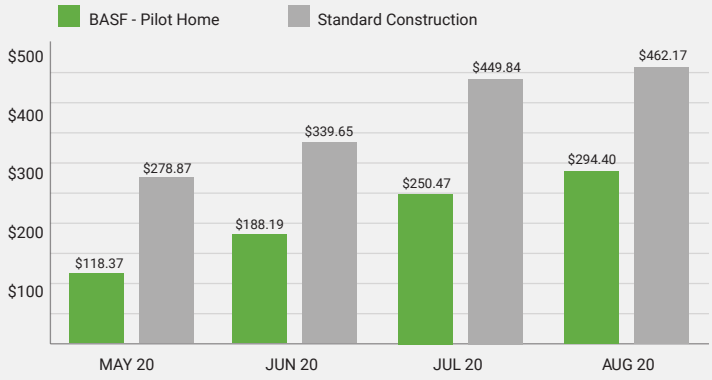
BASF High-Performance Envelopes contribute to **as much as 45%** cooling cost reduction

This Arizona study observed the performance differences between homes with a robust building envelope using spray foam insulating air barrier materials, to those with the builder's standard construction package and compared the utility (electric) usage of each to determine any energy cost savings.

Homeowners saw up to **$170 in monthly energy cost savings when using BASF WALLTITE and ENERTITE** in the 2562 sq. ft. home, compared to conventional materials and building design. This annual savings more than offsets the investment in the spray foam –**very few other "unseen" building products pays for themselves, from the day of occupancy.**

The study shows an average of **32% less electricity used** in four model homes in this community insulated with the BASF High-Performance products. This results in not only **reduced energy** but offers the homeowner **considerable cost savings**.

Electrical Energy Costs - 2562 livable sq.ft. model



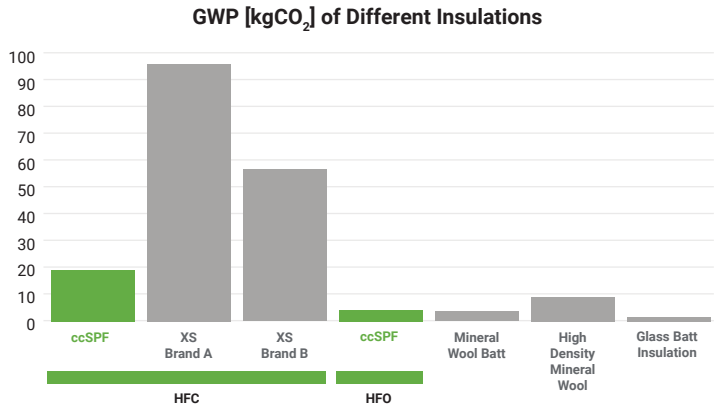
FLOOR PLAN (SQ.FT.)	PERCENT SAVINGS	ELECTRICITY SAVINGS	kWh SAVINGS
1463	15%	$112.26	996
1801	41%	$436.27	3,769
2050	29%	$370.39	3,163
2562	45%	$676.10	5,687
Total	**130%**	**$1,598.02**	**13,615**
Average	**32%**	**$399.51**	**3,403.75**
Average per month		**$99.88**	**850.94**

Chart shows total savings over four month period, May 2020-August 2020.

Spray Foam Contributes to Environmentally Sustainable Design

Life Cycle Analysis (LCA) and Environmental Product Declarations Confirm Low Global Warming Potential

An industry-level, ISO-compliant, cradle-to-grave LCA resulted in two industry-average EPDs of spray polyurethane foam, allowing comparisons of hydrofluoroolefin (HFO)-, and hydrofluorocarbon (HFC)- based formulas to other insulations, as shown by the graph below. **The transition from HFC to HFO blowing agents reduces the carbon impact of SPF by about 80%.**



Note 1: GWP evaluated cradle to grave
Note 2: Values are based on data sourced from publicly available environmental declarations (EPD) as of August 1, 2020
Note3: 1 m^2 of installed insulation material with a thickness that gives an average thermal resistance RSt = 1m^2 K/W

Added Strength and Durability Leads to Less Waste & Lower Material Usage

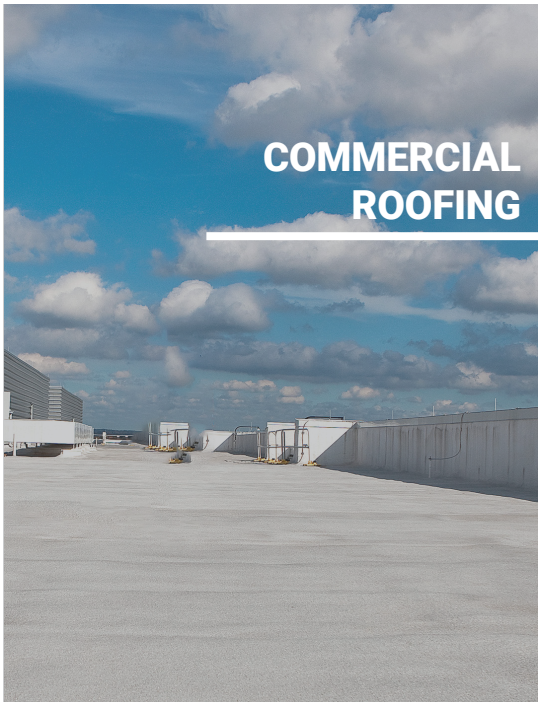
National Association of Home Builders' (NAHB) Research Center testing shows SPF insulation **increased rack and shear strength 2-3x** compared with standard glass fiber insulation in wood- and steel-stud wall panels.

Testing also found ccSPF in walls removed the need for special bracing for wind resistance, reducing construction costs and landfill waste by allowing 2x4s instead of 2x6s.

Our **SKYTITE spray foam roofing systems** can be applied over existing substrates, avoiding the need for tear-off. This lightweight roofing system provides resilience against hail and uplift during severe storms.

BASF HP+ Wall Systems with **WALLTITE** minimize wood framing and sheathing requirements. Structural design values for the HP+ Wall System are found in the Technical Evaluation Report, supporting engineering adjustments to leverage these savings.

By using BASF spray foam insulation, you can build with **less materials** and still achieve a **resilient, energy-efficient structure.**



Built on Trust
The BASF Spray Foam Difference

Backed by third-party certifications, our spray foam insulations deliver trusted claims and results you can count on.

Validated Product Performance and Features

GREENGUARD Certification for Low-VOC

According to UL Solutions, using UL GREENGUARD Certified products can help highlight your efforts to reduce VOCs in indoor environments and can be a contributing factor to meeting LEED rating system requirements. All BASF spray foam systems have been assessed to GREENGUARD Gold standards and have undergone rigorous fire testing, allowing us to offer the most approved assemblies in the industry.

Environmental Claim Validation (ECV) Program

We offer spray foams derived from renewable, bio-based by products and recycled polyols, contributing to a circular economy. BASF spray foam materials have ECV certificates from UL Solutions for mold resistance, low-VOC emissions and bio-based content.

Florida Building Code and Miami-Dade County

Closed-cell foam strengthens the connection between the roof deck and trusses, improving structure's resiliency and durability in high-wind events such as storms and hurricanes. BASF closed-cell WALLTITE has FL Building Code listings, with high velocity wind zone certification for uplift resistance and secondary water barrier performance. SKYTITE roof systems are also approved by Miami-Dade County for their use in high velocity hurricane zones, where they can provide excellent reinforcement against wind uplift in commercial low-slope roofing.

ENERGY STAR® Certification

Thermal performance testing by EPA-recognized third-party certification bodies is independently evaluated to ensure it delivers performance while meeting strict safety standards. BASF spray foams are amongst a limited amount of spray foam insulations certified by ENERGY STAR.

Health Product Declarations (HPDs)

This comprehensive disclosure helps builders and designers make informed decisions about the materials they use, ensuring both performance and sustainability. BASF provides this material transparency on chemical composition, potential health effects and environmental impacts, which may also contribute to additional LEED material category points.

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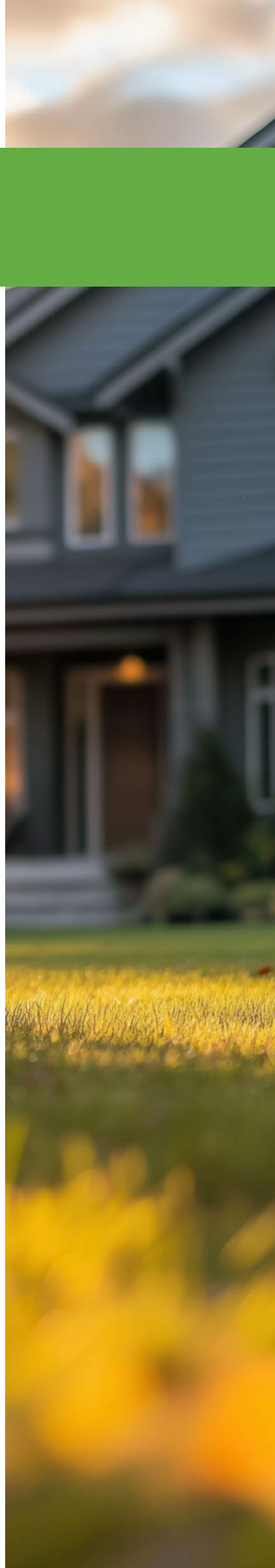

Choosing spray foam over traditional materials offers unmatched benefits that elevate your building's performance and sustainability.

With BASF's commitment to quality and innovation, you can trust that our spray foam products are designed to meet the specific needs of contractors and homeowners alike. Make the sustainable choice for your insulation needs—select BASF Spray Foam for a more efficient and more sustainable building solution.

For more information on BASF spray foams, visit:
www.spf.basf.com
1-888-900-FOAM

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