



A Smarter
Insulation
to Manage
Moisture

 **SMARTBATT™**
with MoistureSense™ Technology

CertainTeed
SAINT-GOBAIN



The CertainTeed Difference

When you choose CertainTeed Insulation, part of the largest insulation manufacturer in the world, you're installing much more than trusted high-performance insulation products. You're installing confidence.

With more than 100 years of experience, we're the only insulation manufacturer with a truly comprehensive offering to help you achieve optimal comfort, with fiber glass Sustainable Insulation®, blowing wool, spray polyurethane foam, smart vapor retarder and air barriers and mold protection. You can **Be Certain** our variety of products, multi-product solutions and Building Science expertise will help you create better living spaces.

No one matches CertainTeed's breadth of insulation options





CertainTeed SMARTBATT™ Insulation with MoistureSense™ Technology is a revolutionary way to help create healthier homes by intelligently addressing moisture. You can elevate moisture management with this advanced, proprietary technology — **the only one of its kind.**

**BLOCKS
&
BREATHES**
with an integrated smart vapor retarder

The only solution that adapts based on moisture levels.

Blocks indoor moisture from entering when humidity in the cavity is low.

Breathes when it senses high humidity in the cavity that needs to be released to the interior conditioned space.

UNDERSTANDING BUILDING SCIENCE



Thermal Performance

Heat constantly moves to colder areas, which is why homes need thermal resistance (measured by R-Value) between the indoors and outdoors.

- Highly efficient SMARTBATT fiber glass insulation helps save on energy bills
- Creates a more comfortable living space



Moisture Management

Moisture is unavoidable in any home, making moisture in the cavity almost inevitable — and dangerous if not addressed. SMARTBATT with MoistureSense Technology helps provide a healthier indoor environment.

- Can reduce the risk of mold and mildew
- Improves indoor air quality



Acoustics

Acoustics play an important role in the overall comfort and enjoyment of your home, and SMARTBATT is a smart choice to enhance acoustics throughout the home.

- Helps block disturbing outside noise
- When added to interior walls, adds 4 to 12 points to the Sound Transmission rating of a wall assembly

CREATING A COMFORTABLE HOME

Your insulation choice impacts thermal performance, as well as moisture management, air tightness* and acoustics. When you control all aspects of the elements below, you will create Complete Comfort.

*When paired with a caulk and seal package, an airtight assembly can be achieved to optimize performance.



Thermal Performance



Air Tightness



Moisture Management



Acoustics



COMPLETE COMFORT

Managing Moisture in the Cavity

THE ONLY PRODUCT TO BLOCK AND BREATHE

The SMARTBATT™ innovative MoistureSense™ facing, unlike traditional polyethylene vapor barriers, is a smart vapor retarder. It blocks moisture when humidity is low in the cavity yet increases its permeability when humidity is high to let moisture escape.



Remains moisture tight in winter when humidity in the cavity is low.



Increases permeability in summer to let moisture escape when needed.

MANAGE MOISTURE IN THE CAVITY

When you manage moisture, you reduce the potential for mold and mildew growth.

Mold

Moisture buildup can lead to mold growth which can cause health issues.

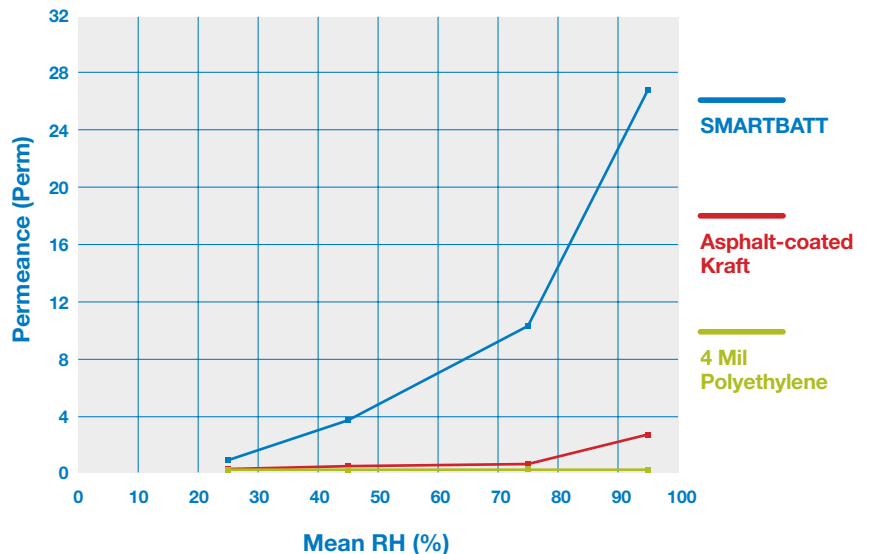
Rot

Persistent moisture can eventually cause expensive structural damage.

WATER VAPOR PERMEANCE

- Greater performance and permeance rating compared to traditional kraft insulation
- Traditional kraft facing has limited permeance on average of 0.1 – 1.0, while SMARTBATT can adapt from almost completely closed to fully open based on humidity levels in the cavity
- Greater drying capability reduces potential mold/mildew growth
- SMARTBATT's performance was previously only available in a two-step installation rolled sheet product
- When paired with a caulk and seal package, offers superior, cost-effective air tightness and moisture management system

Water Vapor Permeance Comparison





Moisture vapor, which travels in the air, can enter the home through external air leakage and everyday indoor activities. In fact, an average family of four can generate two to three gallons of water vapor per day from cooking, bathing, washing dishes and laundry. When moisture vapor penetrates the wall cavity, it can condense on cold surfaces and accumulate in the building envelope.

KNOW YOUR CLIMATE ZONE

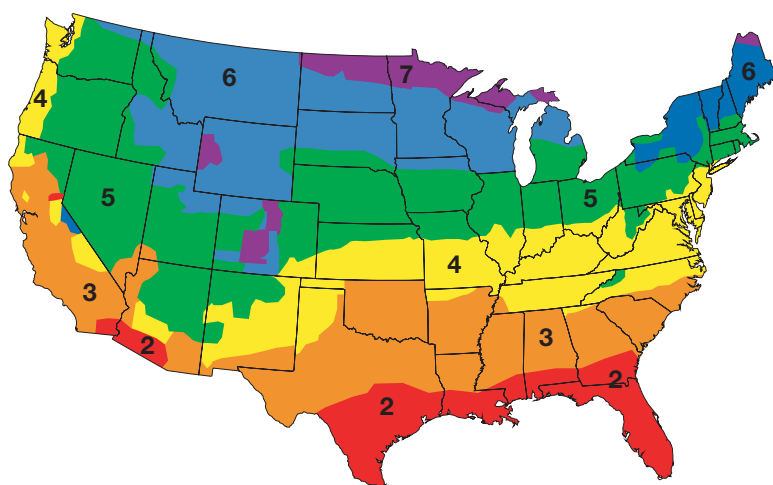
Use SMARTBATT™ for insulation in climate zones 3–7. It is ideal for areas where you cool your home in the summer and heat it in the winter.**

It's critical to determine the recommended R-Value for your region. However, upgrading beyond these minimums creates a more comfortable and energy efficient home.

**Not all climate zones require vapor retarders. To determine whether they're recommended for your region, use our online insulation calculator at www.certainteed.com/ITools

Zone 1 Includes: Hawaii, Guam, Puerto Rico, and the Virgin Islands

All of Alaska in Zone 7 except for the following Boroughs in Zone 8: Bethel, Dellingham, Fairbanks North Star, Nome, North Slope, Northwest Arctic, Southeast Fairbanks, Wade Hampton, Yukon-Koyukuk



IDEAL APPLICATIONS FOR SMARTBATT



- Crawlspaces
- Basements
- Bathrooms
- Laundry Rooms
- Kitchens
- Exterior Walls
- Any place you would use traditional kraft insulation

SMARTBATT PRODUCT FEATURES

- Unique kraft facing — industry first
- Superior drying capability
- Meets ASTM C1338 to inhibit mold growth on the facing
- Easy installation
- Cuts easier than kraft
- Sustainable Insulation®

For every insulation challenge, there's a CertainTeed solution.



Residential Sustainable Insulation®



Mold Prevention



CertaPro™ Commercial Insulation



Spray Foam Insulation



HVAC / Mechanical



Machine Works



Premium Blow-in Insulation



[**Be Certain**]™

You can **Be Certain** no other manufacturer offers the depth and breadth of interior and exterior building solutions, knowledge, innovation and sustainability that CertainTeed does. Our advanced, multi-product solutions optimize building efficiency, while creating beautiful, comfortable environments where people can thrive. We continue to shape the future of the building materials industry with a new generation of integrated building solutions.

That's confidence worth building on.™

ASK ABOUT ALL OF OUR OTHER CERTAINTEED® PRODUCTS AND SYSTEMS:

ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE
GYPSUM • CEILINGS • INSULATION

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Code No. 30-45-064