Complete Comfort
Integrated Solutions for Every Insulation Need
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

**Thermal Performance**

Highly efficient fiber glass and spray foam insulation help save on energy bills* and create a more comfortable living space.

**Air Tightness**

Sealing air leaks stops unpleasant drafts and noise, while helping ensure thermal performance. It creates a tighter building envelope that influences every other aspect of a comfortable home.

**Moisture Management**

An effective vapor retarder can reduce the risk of mold and mildew, improving indoor air quality, providing a healthier indoor environment and helping avoid potentially costly damage from rot.

**Acoustics**

Acoustics play an important role in a home’s overall comfort. Insulation helps block disturbing outside noise and, when added to interior walls, limits room-to-room noise.

* For more information go to www.energystar.gov

Create a More Comfortable Home

Your insulation choice impacts thermal performance as well as moisture management, air tightness and acoustics. It’s important to choose wisely during a home’s construction, as upgrading later can be difficult and expensive. When your insulation system successfully controls all of the following aspects, you can achieve a higher level of Complete Comfort in your home.
It’s critical to determine the recommended R-Value according to your region. However, code is a recommended minimum. Upgrading beyond these minimums creates a more comfortable home for a lifetime.

Air tightness affects the entire building envelope and plays a major role in successfully managing heat, moisture and sound.

ACHIEVE CONTINUITY

Air constantly moves from high to low pressure, finding every penetration into and out of a home, which is why proper air sealing is crucial to create a continuous seal at all joints and penetrations. MemBrain provides continuous air barrier protection.

M IXED - C LIMATE R EGIONS, which experience both significant hot and cold seasons, have unique insulating and moisture management needs. Since heat and moisture will pass through the cavities in both directions throughout the year, homes in these regions can benefit from CertainTeed’s patented smart vapor technologies, including SMARTBATT™ with MoistureSense™ Technology, insulation and MemBrain™ smart vapor retarder and air barrier film.

For more information go to www.energystar.gov
Moisture Management
Moisture intrusion is unavoidable in any home, making moisture in the wall cavity almost inevitable — and dangerous if not addressed. Not only does moisture reduce the thermal efficiency of your insulation, it can also lead to mold, mildew and rot. It’s especially important to manage moisture with brick, stone, block and stucco exteriors as they tend to retain moisture.

HELP WALLS DRY WITH PATENTED SMART VAPOR RETARDERS*
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 create 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.

- Remains moisture tight in winter when humidity in the cavity is low.
- Increases permeability in summer to let moisture escape when needed.

CertainTeed’s innovative smart vapor retarders SMARTBATT™ and MemBrain™ prevent moisture build-up and are engineered to help wall cavities dry out. Unlike traditional polyethylene vapor retarders, they block moisture in the winter when humidity in the cavity is low and increase permeability during the summer when humidity is high to let moisture escape while still maintaining air tightness.

HELP SILENCE THESE COMMON ACOUSTICAL OFFENDERS
Exterior Noise
- Road and air traffic
- Lawn mowers
- Barking dogs

Interior Noise
- Appliances (washing machines, dryers, dishwashers)
- Home theaters and video games
- Plumbing pipes
- Footsteps on hard flooring

Fiber glass insulation in interior walls and floors/ceilings can improve sound reduction between spaces by 5 to 15 decibels.

MOISTURE AND ACOUSTICS DRAMATICALLY AFFECT COMFORT
It’s critical for the right insulation system to control both, as they can greatly influence homeowners’ health, peace of mind and overall quality of life.

An average family of four can create two to three gallons of water vapor per day.
SMARTBATT™ with MoistureSense™ Technology + Caulk & Seal

- Advanced, first of its kind technology physically adapts based on humidity inside the wall cavity to let water vapor escape
- Installs like traditional kraft-faced batts but has greater performance and permance rating
- Part of the Sustainable Insulation family
- Achieves air sealing and thermal efficiency as a complete system with standard caulk and seal

Sustainable Insulation Unfaced Batt + MemBrain™

- Traditional fiber glass batts provide thermal comfort and are easy to install
- Battls are also good for interior wall applications to achieve sound control
- MemBrain smart vapor retarder and air barrier film adds continuous air tightness and a layer of adaptable moisture protection

OPTIMA® Blow-In Insulation + MemBrain™

- Blown into wall cavity — filling voids
- Thermally efficient — leaving no gaps in the cavity
- Provides excellent sound control
- Higher R-Value per inch than fiber glass batts
- MemBrain smart vapor retarder and air barrier film adds air tightness and adaptable moisture protection

CertaSpray® Closed Cell Spray Foam — Full Cavity

- Highest insulation R-Value per inch
- Achieves exceptional air and vapor protection by minimizing air infiltration
- Seals voids and cracks by expanding 35 to 50 times its original volume
- Adds structural integrity to wall cavities by forming a strong, rigid layer
- Minimizes hot and cold spots to maximize comfort
- Insulates and blocks air and moisture in one step

NOTE: All CertainTeed Insulation enhances the thermal and acoustical performance of a home.
Meeting Every Insulation Need

Our mission is to help you select the best insulation system, through the largest product selection and in-depth Building Science expertise and education. Consult with your CertainTeed representative or contact us and we can guide you through tailoring the optimal solution for your needs.

**Hybrid Systems**

CertaSpray® Closed Cell Spray Foam includes 1.5” CCSPF with R-13 batt and 2” CCSPF with R-15 batt. OPTIMA® 2” R-17.16 Batt blocks moisture and air, closed cell 2” or greater and open cell 3.5” or greater. **NOTE:** Adding MemBrain™ smart vapor retarder and air barrier film to most systems can greatly increase moisture management and air tightness performance.

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### RESIDENTIAL WALLS (WOOD STUD)

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<th>Standard</th>
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<tr>
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<td>OPTIMA® MemBrain</td>
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<tr>
<td>HYBRID OPTION 2 — CertaSpray + OPTIMA®</td>
<td>R-23</td>
<td>R-25**</td>
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<td>CertaSpray Closed Cell Spray Foam — Full Cavity†</td>
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<td>R-25**</td>
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<td>InsulSafe SP Blow-In attic insulation provides excellent thermal efficiency that will not settle, ensuring R-Value integrity</td>
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**IDEAL APPLICATIONS**

- **Achieving a near maximum degree of Complete Comfort with a cost-effective product combination in exterior walls.**
- **Achieving a true no-compromise level of Complete Comfort in exterior walls.**

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**IDEAL APPLICATIONS**

- **Meeting Every Insulation Need**

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**EXCEPTIONAL PROPERTIES**

- **Thermal Performance**
- **Air Tightness**
- **Moisture Management**
- **Acoustics**

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**800-233-8990 • CertainTeed.com/Insulation**
For every insulation challenge, there’s a CertainTeed solution.

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

[www.certainteed.com/insulation](http://www.certainteed.com/insulation)

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Code No. 30-29-176