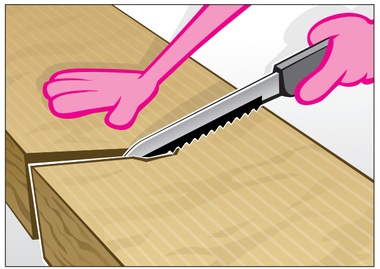
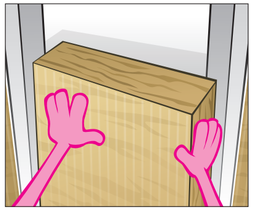
Installation and Safety Tips

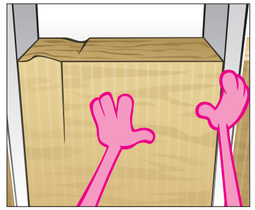


Cut Thermafiber® with long serrated knife

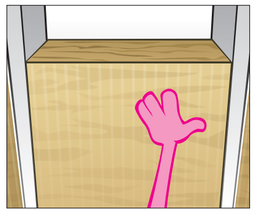
Safety First
Wear protective gear: goggles, gloves, dust mask or respirator, long pants and sleeves. Ensure there's proper lighting.



1. Measure & Cut
The insulation is easy to cut with a serrated knife for custom fitting around electrical boxes, pipes, duct-work, wiring, or between non-standard studs and joist.

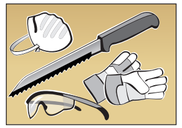


2. Squeeze & Insert
The insulation is flexible and pliable; simply squeeze the sides to compress the insulation and insert into the desired wall.



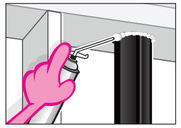
3. Release & Expand
Once in place, the insulation naturally expands to fill in the space, creating a snug, custom fit.

Working Area
Ensure installation area is accessible and easy to move around in. You will need something sturdy to kneel or walk on such as a plank or a sheet of plywood when working in an attic.



Tools
Keep the following tools on hand: serrated knife, safety glasses, mask and gloves.

Noise Control: Interior Walls



1. Seal Air Leaks.
Seal air leaks in the wall. These include electrical, plumbing and other services through the bottom or top of the wall entering attached floors & ceilings and also services through walls entering neighboring rooms.

4. OPTIONAL - Install Resilient Metal Channels.
For best acoustical performance, install resilient metal channels across studs to minimize sound energy passing through studs.

Note: Resilient metal channels are not necessary with light gauge metal stud walls.

2. Install Batts.
Install Thermafiber® Fire & Sound Guard® insulation between studs. Where necessary, cut to length & shape around obstructions in the stud cavity filling all voids.

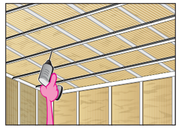
5. Apply Wall Finish.
Apply drywall or other wall finish.

3. Wiring, Plumbing & Services. Splice insulation for electrical wiring and cut to shape around plumbing, lighting & other services to ensure a tight, secure fit.

Use Fire & Sound Guard® Acoustic Insulation
3" thickness in wood or steel stud applications

Noise Control: Interior Floors/Ceilings

1. Seal Air Leaks.
Seal air leaks in the floor/ceiling. These include electrical, plumbing and other services through the floor/ceiling entering rooms and walls above or below.

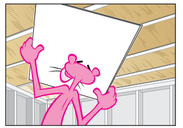


4. Install Resilient Metal Channels. For best acoustical performance, install resilient metal channels across joists to minimize sound energy passing through studs.

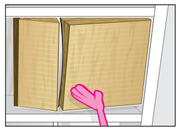
Note: Resilient Channel is very important for floors systems to minimize impact sounds from people living above.

2. Install Batts.
Install Thermafiber® Fire & Sound Guard® insulation between studs. Where necessary, cut to length & shape around obstructions in the joist cavity. Ensure insulation is flush with the underside of floor/ceiling joists.

Upgrade: Additional layers of insulation can be installed up to the thickness of the cavity to achieve improved acoustical performance.



5. Apply Ceiling Finish.
Apply drywall or other ceiling finish.



3. Wiring, Plumbing & Services. Splice insulation for electrical wiring and cut to shape around plumbing, lighting & other services to ensure a tight, secure fit.

Use Fire & Sound Guard® Acoustic Insulation
3" thickness in wood or steel stud applications

OWENS CORNING® Thermafiber®

THERMAFIBER, INC.
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, USA 43659

1-800-GET-PINK®
www.thermafiber.com

[1]Verified by ICC-ES to contain a minimum of 70% recycled content. See ICC-ES Evaluation Report VAR-1025 at icc-es.org.

[2]ASTM C 1138.

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OWENS CORNING® Thermafiber®
Mineral Wool Insulation

Product & Installation Guide

www.thermafiber.com

Features & Benefits of Thermafiber® Mineral Wool Insulation

THERMAL COMFORT · FIRE RESISTANT · 70% RECYCLED CONTENT

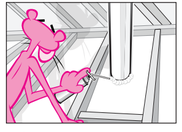
FIRE RESISTANT · SOUND CONTROL · 70% RECYCLED CONTENT

Thermafiber® UltraBatt™ thermal mineral wool insulation provides exceptional R-value and fire containment in residential and light commercial buildings, making homes energy efficient.

- Fire Resistant to Temperatures Above 1,09 3° C (2,000° F)
- Minimum 70% Recycled Content[1]
- Easy to Cut & Install
- Secure Cavity Fit
- Mold Resistant[2]

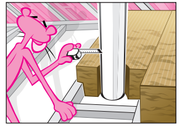
Thermafiber® Fire & Sound Guard® insulation is designed to provide enhanced acoustical control and fire resistance in one product for residential buildings.

Attics: New Install or Topping Up



1. Seal Air Leaks.
Seal air leaks in the ceiling below the attic. These include exterior and interior walls below as well as electrical, lighting, plumbing, ventilation ductwork, chimneys and other services through the ceiling that enter the attic.

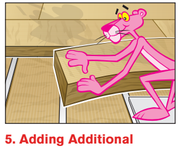
NOTE: Consult applicable building codes for requirements on sealing around heat emitting sources such as chimney, pot lights, etc.



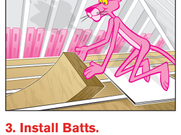
4. Wiring, Plumbing & Services. Splice insulation for electrical wiring and cut to shape around plumbing, lighting & other services to ensure a tight, secure fit.

Note: See clearance minimums in the Insulating Around Fixtures section.

2. Install AtticMate® Rafter Vents. Staple Owens Corning® AtticMate® rafter vents to roof deck in every roof joist cavity around the perimeter of the attic. Ensure vents extend beyond the vertical height of the insulation being installed in the attic.



5. Adding Additional Layers. To achieve the desired R-value, install multiple layers of Thermafiber® UltraBatt™ insulation perpendicular to the layer below. Minimum total R-value recommended for an attic is R60.

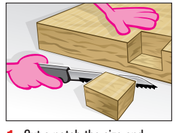


3. Install Batts.
Select the Thermafiber® UltraBatt™ insulation that is the same thickness as your ceiling joists. First install batts at outer edge of attic, ensuring the top of your exterior walls are covered, then work towards the middle of the attic.

Use UltraBatt™ Thermal Insulation	
Type of Construction	Recommended R-value
2 x 4	R-15
2 x 6	R-23
2 x 8	R-30

Insulating Around Fixtures

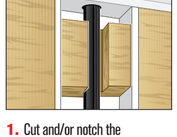
Electrical Boxes



1. Cut a notch the size and depth of the electrical box out of the Thermafiber® batt.

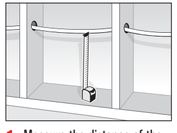
2. Slide the batt in from the side so the box sits within in the cut out.

Plumbing/Pipes

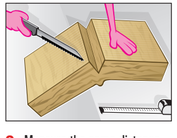


1. Cut and/or notch the Thermafiber® batt around the pipe. Slide the batt in-behind the pipe ensuring a tight and secure fit.

Electrical Wiring



1. Measure the distance of the wire from bottom plate, stud, joist or previous Thermafiber® batt installed.

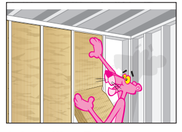


2. Measure the same distance on the batt and splice the batt the depth of the wire's location.

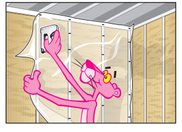
3. Install the batt into the cavity fitting the wire in the splice.

CAUTION: Building, electrical, fire and other applicable codes shall be complied with. All heat emitting devices, such as fuel burning appliances, chimneys, pipes, ducts and vents to these appliances shall maintain a minimum clearance of 50 mm between these devices and the insulation. Recessed light fixtures, unless designed for the purpose, shall not be installed in insulating ceilings.

Exterior Walls



1. Installing Batts.
Install Thermafiber® UltraBatt™ insulation between studs. Where necessary, cut to length & shape around obstructions in the stud cavity filling all voids.



3. Installing Vapor Barrier.*
Install a continuous vapor barrier over entire wall area. Overlap the joints by at least 6".

IF vapor barrier is also an air barrier, seal all joints with approved caulking or tape and ensure all electrical, plumbing, lighting & other services in the wall are air sealed to the vapor barrier.

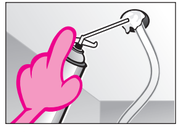
* Consult applicable building code for vapor barrier requirements and proper location

2. Wiring, Plumbing & Services. Splice insulation for electrical wiring and cut to shape around plumbing, lighting & other services to ensure a tight, secure fit.

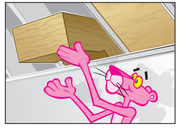
4. Apply Wall Finish.
Apply drywall or other wall finish on top of the vapor barrier.

Use UltraBatt™ Thermal Insulation	
Type of Construction	Recommended R-value
2 x 4	R-15
2 x 6	R-23

Exposed Floors

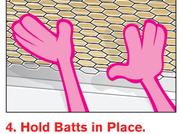


1. Sealing Air Leaks.
Seal air leaks between unheated & heated areas before insulating i.e. garages, basements, crawlspaces, bumpouts. Leaks can include framing, electrical wiring, plumbing, ductwork, cables, and any other services.



3. Install Batts.
Place batts between floor joists, where they will stay in place temporarily. Splice insulation for electrical wiring and cut to shape around obstructions in the joist cavity filling all voids.

2. Applying Vapor Barrier.
Apply a vapor barrier to the underside of the floor adjacent to the heated space. Consult applicable building code for vapor barrier requirements and proper location.



4. Hold Batts in Place.
To hold insulation in place, nail wire mesh to the underside of the floor joists. Alternatively, an exterior sheathing finish can be installed.

Use UltraBatt™ Thermal Insulation	
Type of Construction	Recommended R-value
2 x 6	R-23
2 x 8	R-30