

# Building Insulation

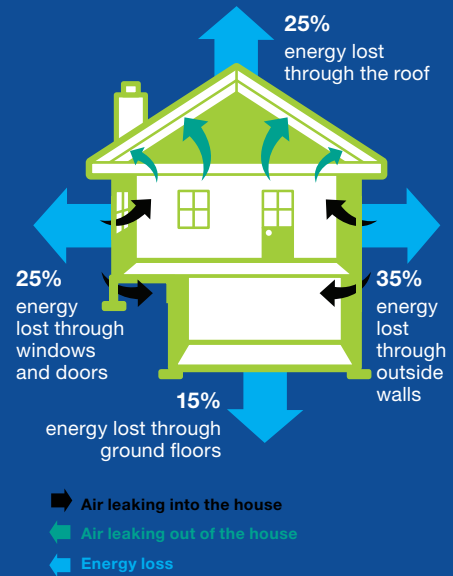
Product Overview - Canada



# Canadian Solutions for Canadian Buildings

## CERTAINTEED INSULATION

We're more than just a building materials manufacturer – we're a true solutions provider for you. We manufacture and sell our energy-efficient, sustainable glass fibre insulation products, including batts and blankets, right here in Canada. Additionally, our glass fibre building insulation is third-party certified for a high percentage of recycled glass and renewable content.



## Quality. Selection. Service.

### PRODUCTS

Our comprehensive product line has everything you need to satisfy even the toughest building codes and customer demands for any new build, retrofit, or remodel.

### SUPPORT

We're committed to helping you succeed. We provide prompt, outstanding technical assistance along with a full range of marketing tools, and other business-building resources.

### SERVICE

We'll help you select and customize the best insulation system solutions for your customers. With our Service Advantage, Customer Bill of Rights, and unmatched expertise, you can be sure you get what you need, when you need it.

### SUSTAINABILITY

Like many of your customers, we are committed to environmental responsibility. With the market for green buildings growing rapidly, we have the products, tools, and certifications you need to meet green building standards.



CertainTeed Sustainable Insulation is an easy to install, cost effective solution to help save energy in residential and commercial new construction, as well as for renovating or retrofitting existing buildings.

In addition to its thermal properties, Sustainable Insulation also provides excellent acoustical performance. It is made of glass fibre that consists of rapidly renewable content, a high percentage of recycled glass, and has a plant-based binder that has no formaldehyde, dyes or unnecessary fire retardants added.

## INSTALLATION

Sustainable Insulation is manufactured for a wide range of applications and can be installed into wall cavities (either wood or steel construction), cathedral and garage ceilings, attics and crawlspaces. Insulation batts must be a snug fit into the cavity to ensure proper thermal and acoustical performances are achieved.

Sustainable Insulation can save 12 times as much energy in the first year as the energy needed to produce it. It will also last for the life of the building, won't settle, accumulate moisture or lose its R-Value over time.



## PRODUCT BENEFITS

- Excellent thermal performance
- Reduces energy demand and cost
- Does not absorb moisture
- Organic, plant-based binder
- No formaldehyde, dyes or fire-retardant chemicals
- GREENGUARD GOLD – Certified for superior indoor air quality (IAQ) performance
- 3rd-party verified recycled content
- Environmental Product Declaration (EPD)
- Health Product Declaration (HPD)

## STANDARD SIZES

R-VALUE		THICKNESS		AVAILABLE WIDTHS		LENGTH	
R-Value (hr·ft <sup>2</sup> ·°F/Btu)	RSI-Value (m <sup>2</sup> ·°C/Watts)	in.	mm	in.	mm	in.	mm
8	1.4	2.75	70	16, 24	406, 610	47, 48	1194, 2119
12	2.1	3.5	89	15, 16, 23, 24	381, 406, 584, 610	47, 48	1194, 1219
14	2.4	3.5	89	15	381	47	1194
20	3.5	6	152	15, 16, 23, 24	305, 406, 584, 610	47, 48	1194, 1219
22	3.8	5.5	140	14.75, 22.75	375, 578	47	1194
24	4.2	5.5	140	14.75, 22.75	375, 578	47	1194
28	4.9	8.5	216	16, 24	406, 610	48	1219
31	5.4	9.5	241	16, 24	406, 610	48	1219
35	6.1	10.75	273	24	610	48	1219
40	7	12	305	16, 24	406, 610	48	1219



Continuous Air Barrier & Smart Vapour Retarder

MemBrain, the smart vapour and air barrier film, is an innovative polyamide film that changes its permeability based on surrounding humidity conditions.

CertainTeed's MemBrain™ is a patented smart vapour and air barrier film that can provide a continuous air barrier along with advanced moisture management in a single product. This innovative polyamide film can change its permeability with ambient humidity conditions. It is intended for use with unfaced insulation (glass fibre and mineral wool) in wall and ceiling cavities.

## INSTALLATION

MemBrain should be installed in all insulated walls and ceilings. For most areas, it should be installed on the warm-in-the-winter side of the insulation (toward the interior). MemBrain must be installed as a continuous layer and overlap at any envelope penetrations. The specifications for any airtight construction should include full details of the sealing layers and the various building components needed, with particular attention paid to the interfaces between different materials. Approved tapes and glues should be used to ensure proper sealing.



## PRODUCT BENEFITS

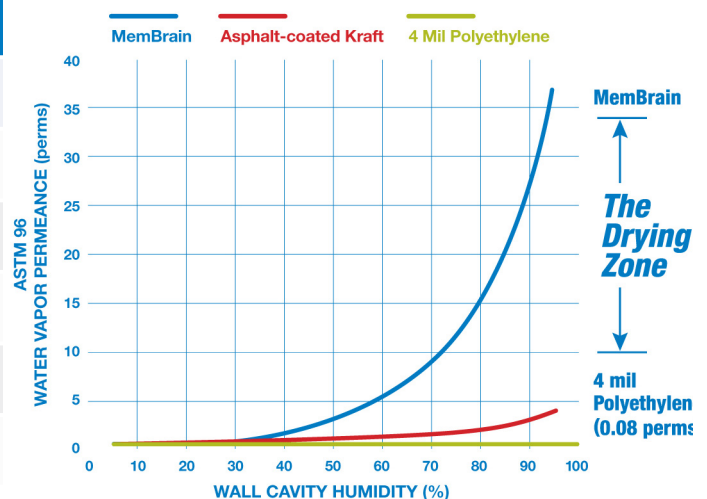
- Smart alternative to 6 mil. poly - won't trap damaging moisture in the structure
- Changes its permeability with the ambient humidity condition
- Provides an airtight and sealed envelope
- Reduces risk of mould, mildew and rotting
- Provides excellent indoor air quality
- Red List free

## STANDARD SIZES

NOMINAL PRODUCT SIZE		ACTUAL ROLL WIDTH		ACTUAL ROLL LENGTH		COVERAGE	
ft.		ft.	m	ft.	m	sq ft.	m <sup>2</sup>
8 x 50		8' 4"	2.54	50'	15.24	417	38.7
8 x 100		8' 4"	2.54	100'	30.48	833	77.4
9 x 100		9' 4"	2.85	100'	30.48	933	86.7
10 x 100		10' 4"	3.15	100'	30.48	1,033	96.0
12 x 100		12' 4"	3.76	100'	30.48	1,233	114.6

\*With box and core | \*\*48 in. (1219 mm) maximum pallet height | Patented Technology

MemBrain can adapt from fully closed to open (<1 to 35 perms) to provide greater drying capability.





# InsulSafe®XC

InsulSafe® XC is an industry-leading glass fibre blowing wool used in residential and commercial construction as a thermal and acoustical insulation.

## PRODUCT BENEFITS

- Excellent Insulating Properties
- Will not settle, rot, decay or retain moisture
- Reduces energy demand and costs
- Environmentally sustainable
- Noncombustible, noncorrosive and odour free
- Will not support mildew or fungus growth
- GREENGUARD GOLD - Certified for superior indoor air quality (IAQ) performance
- Formaldehyde-free
- 3rd-party verified recycled content
- Environmental Product Declaration (EPD)
- Health Product Declaration (HPD)

InsulSafe XC is non-combustible, environmentally friendly and never settles. It is a white glass fibre designed to be used with blowing machines, and very well-suited for CertainTeed Machine Works blowing machines. It's treated to minimize dust and static. InsulSafe XC is the perfect solution in open attic areas.

## INSTALLATION

InsulSafe XC is installed with pneumatic blowing machines, the thermal performances as seen in the coverage chart, will be achieved at the thicknesses, weights and correct number of bags specified, based on a nominal 31-lb. bag (14.1 kg). Intended for use in unconfined spaces on horizontal surfaces (or over ceilings sloped not more than 4.5:12). InsulSafe XC can also be used in BIB (Blow-in-Blanket) System, installed behind our OPTIMA® Non-woven Fabric.



## ATTIC APPLICATION COVERAGE CHART

THERMAL RESISTANCE		MINIMUM THICKNESS		MINIMUM MASS/AREA		MAXIMUM COVERAGE/BAG		MINIMUM BAGS/AREA	
RSI	R	mm	in.	kg/m²	lb/ft²	m²	ft²	per 100m²	per 1,000ft²
2.1	12	114	4.5	0.95	0.194	14.9	160.1	6.7	6.2
2.8	16	151	6.0	1.26	0.258	11.2	120.1	9.0	8.3
3.5	20	189	7.4	1.58	0.323	8.9	96.0	11.2	10.4
4.2	24	227	8.9	1.89	0.387	7.4	80.0	13.4	12.5
4.9	28	265	10.4	2.21	0.452	6.4	68.6	15.7	14.6
5.3	30	286	11.3	2.39	0.489	5.9	63.4	17.0	15.8
5.6	32	303	11.9	2.52	0.516	5.6	60.0	17.9	16.7
6.3	36	341	13.4	2.84	0.581	5.0	53.4	20.2	18.7
7.0	40	378	14.9	3.15	0.646	4.5	48.0	22.4	20.8
7.7	44	416	16.4	3.47	0.710	4.1	43.7	24.7	22.9
8.4	48	454	17.9	3.78	0.775	3.7	40.0	26.9	25.0
8.8	50	476	18.7	3.96	0.812	3.5	38.2	28.2	26.2
9.1	52	492	19.4	4.10	0.839	3.4	36.9	29.1	27.1
9.5	56	530	20.9	4.41	0.904	3.2	34.3	31.4	29.2
10.5	60	568	22.3	4.73	0.968	3.0	32.0	33.6	31.2

InsulSafe XC, CCMC 13141-L, CAN/ULC-S702-09, Type 5 loose fill mineral fibre thermal insulation / Unconfined attic spaces with slopes not exceeding 4.5:12  
Follow the installation instructions on the specification sheet

# Basement Blanket Insulation

Basement Blanket Insulation is a flexible blanket composed of non-organic glass fibres bonded together with a plant-based binder to create a uniformly textured blanket.



## PRODUCT BENEFITS

- Excellent thermal properties
- Reduces energy demand and costs
- GREENGUARD GOLD - Certified for superior indoor air quality (IAQ) performance

Furnished in unfaced rolls, its primary use is on interior residential basement walls. It is intended to be laminated with an appropriate facing suited to the specific job application. Basement Blanket Insulation is installed horizontally, either half-wall or full-wall, starting at the sill plate.

## STANDARD SIZES

THERMAL RESISTANCE		THICKNESS		AVAILABLE WIDTHS		LENGTH	
R-Value (hr·ft <sup>2</sup> ·°F/Btu)	RSI-Value (m <sup>2</sup> ·°C/Watts)	in.	mm	in.	mm	in.	m
8	1.4	2.625	67	48	1219	100, 120	30.5, 36.5
12	2.1	3.875	98	48	1219	100	30.5
20	3.5	6	152	48	1219	420	122

Additional R-Value sizes and special order products available, please contact your local CertainTeed Insulation Sales Representative.

# NoiseReducer™

NoiseReducer Sound Attenuation Batts are designed for use in residential and commercial wall and ceiling assemblies to effectively reduce unwanted noise.



The unique sound-absorbing batts fill the void between interior standard studs, and effectively break the path of sound for added privacy, quiet and peace of mind. For more on reducing unwanted noise in homes and other buildings, visit: [www.certainteed.com/learning-center/insulation](http://www.certainteed.com/learning-center/insulation).

## NOISEREDUCER - STANDARD SIZES

THERMAL RESISTANCE		THICKNESS		AVAILABLE WIDTHS		LENGTH	
R-Value (hr·ft <sup>2</sup> ·°F/Btu)	RSI-Value (m <sup>2</sup> ·°C/Watts)	in.	mm	in.	mm	in.	mm
8	1.4	2.75	70	16	406	48	1219
8	1.4	2.75	70	24	610	48	1219
12	2.1	3.5	89	16	406	48	1219
12	2.1	3.5	89	24	610	48	1219
20	3.5	6.0	152	16	406	48	1219
20	3.5	6.0	152	24	610	48	1219

Additional R-Value sizes and special order products available, please contact your local CertainTeed Insulation Sales Representative.

## PRODUCT BENEFITS

- Creates peaceful, quiet interior spaces
- Reduces noise between adjoining rooms - perfect for theatre and game rooms
- Lightweight and flexible
- Easy to handle and install
- Increases the STC\* class rating of the assembly by 4-12 points
- Will not rot or deteriorate
- 3rd-party verified recycled content

\* STC is a numerical rating of the ability of a wall, floor or ceiling to reduce sound transmission.

# CertainTeed Machine Works



## Insulation Blowing Machines

**CertainTeed Machine Works offers a complete line of industry leading, commercial-grade equipment for the installation or removal of loosefill fibre insulation. Our insulation blowing machines – truck-mounted or portable – are configured to meet your specific needs.**

Our high-performance truck-mounted machines are powered by gasoline engines, diesel engines, or directly from a truck's transmission. Our portable electric blowing machines offer versatility, flexibility, and are easy to transport. All of our blowing machines are designed to condition the fibre for optimal coverage and thermal performance.

We also offer a full range of insulation removal vacuums, powered by 14, 19, or 23 horse power gasoline engines. For more information call 800-237-7841 or visit [certainteed.com/machineworks](http://certainteed.com/machineworks)



## RESOURCES

CertainTeed provides more than a wide breadth of full-service solutions for your building construction needs. Within every solution we bring to the table, safety, sustainability, energy efficiency, indoor air quality, comfort, and control are at the forefront. All of these functions are built from one solid foundation - Building Science.

Our Technical Services Department and extensive internal and external network of building science experts have extensive backgrounds in building forensics and practical application experience. These resources are an extension of the products that we offer and are available to assist you in identifying the proper solution for your building needs and address any questions regarding specifications, building codes, and installation best practices.

Once you know the solution you require, contact Customer Service to place your order. Our phone system is seamlessly integrated with our customer database. The complete history of your relationship with us is instantly available to the Order Management Associate who handles your call.

Your local CertainTeed Insulation Sales Representative would be happy to assist you with any of your solution needs in addition to the above-mentioned resources.

### Building Science

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

### Technical Services

Toll Free: (800) 233-8990

### Customer Service

Professional: (800) 233-8990

Consumer: (800) 782-8777

### Order Desk

Toll Free: (877) 634-7378

Fax: (613) 737-6563

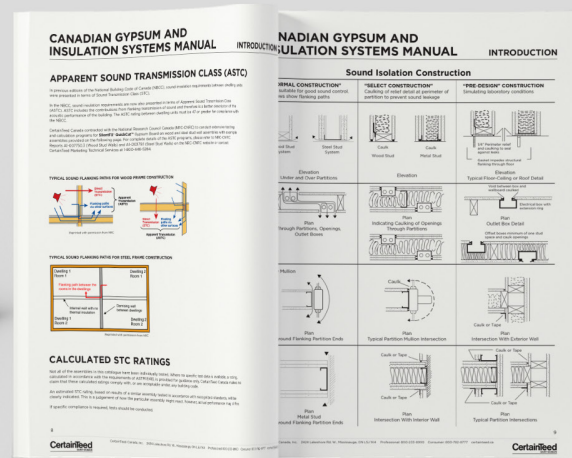
[customerservice-ctcanada@saint-gobain.com](mailto:customerservice-ctcanada@saint-gobain.com)

### For More Information

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



### CANADIAN GYPSUM AND INSULATION SYSTEMS MANUAL



### CertainTeed Canada

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