



EcoBatt® Insulation for Canada

with ECOSE® Technology

Product-Data-Sheet

Description

Performance+ EcoBatt batt insulation is a cost-effective thermal and acoustical barrier for energy-efficient construction. EcoBatt insulation products can be used in new and retrofit wood and metal frame applications in residential, commercial and manufactured housing structures. High Density (HD) batts are available where optimal thermal performance is required and space is limited.

Application

Cavity walls, exterior and partition walls, floors, ceilings, attics, basements and crawlspaces

Specification Compliance

- ASTM C665; Type I, Class A (unfaced)
- CCMC; 13069-L
- CAN/ULC S702

Indoor Air Quality

- **asthma & allergy friendly®**
- Verified Healthier Air™
- UL Environment
 - ☐ GREENGUARD Certified
 - ☐ GREENGUARD Gold Certified
 - ☐ Validated to be Formaldehyde-Free
- EUCB Certified

Certifications



Declare.

Contractor: _____

Job: _____

Date: _____

Technical Data

Property (Unit)	Test	Performance
Corrosion	ASTM C1617	Pass
Thermal Value	ASTM C518	See Forms Available chart
Water Vapor Sorption (by weight)	ASTM C1104	Less than 5%
Combustibility	ASTM E136	Non-combustible
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84	Unfaced: 25/50

Forms Available

R-Value	Thickness		Width		Length	
R-8 RSI-1.4	64 mm	2½"	381 mm	15"	1194 mm	47"
	64 mm	2½"	406 mm	16"	1219 mm	48"
	64 mm	2½"	610 mm	24"	1219 mm	48"
R-12 RSI-2.1	89 mm	3½"	381 mm	15"	1194 mm	47"
	89 mm	3½"	406 mm	16"	1219 mm	48"
	89 mm	3½"	483 mm	19"	1194 mm	47"
	89 mm	3½"	508 mm	20"	1194 mm	47"
	89 mm	3½"	584 mm	23"	1194 mm	47"
	89 mm	3½"	610 mm	24"	1219 mm	48"
R-14 RSI-2.5	89 mm	3½"	381 mm	15"	1194 mm	47"
	89 mm	3½"	584 mm	23"	1194 mm	47"
R-20 RSI-3.5	152 mm	6"	381 mm	15"	1194 mm	47"
	152 mm	6"	381 mm	15"	1219 mm	48"
	152 mm	6"	406 mm	16"	1219 mm	48"
	152 mm	6"	483 mm	19"	1219 mm	48"
	152 mm	6"	508 mm	20"	1194 mm	47"
	152 mm	6"	584 mm	23"	1194 mm	47"
	152 mm	6"	610 mm	24"	1219 mm	48"
R-22 RSI-3.9	140 mm	5½"	381 mm	15"	1194 mm	47"
	140 mm	5½"	584 mm	23"	1194 mm	47"
R-24HD RSI-4.2	140 mm	5½"	375 mm	14¾"	1194 mm	47"
	140 mm	5½"	578 mm	22¾"	1194 mm	47"
R-28 RSI-4.9	203 mm	8"	292 mm	11½"	1219 mm	48"
	203 mm	8"	381 mm	15"	1219 mm	48"
	203 mm	8"	406 mm	16"	1219 mm	48"
	203 mm	8"	584 mm	23"	1219 mm	48"
	203 mm	8"	610 mm	24"	1219 mm	48"
R-31HD RSI-5.5	241 mm	9½"	406 mm	16"	1219 mm	48"
	241 mm	9½"	610 mm	24"	1219 mm	48"
R-35HD RSI-6.2	254 mm	10"	406 mm	16"	1219 mm	48"
	254 mm	10"	610 mm	24"	1219 mm	48"
R-40 RSI-7.0	292 mm	11½"	406 mm	16"	1219 mm	48"
	292 mm	11½"	610 mm	24"	1219 mm	48"
R-31HD RSI-5.5	241 mm	9½"	406 mm	16"	1219 mm	48"
	241 mm	9½"	609 mm	24"	1219 mm	48"
R-40 RSI-7.0	292 mm	11½"	406 mm	16"	1219 mm	48"
	292 mm	11½"	609 mm	24"	1219 mm	48"

HD = High Density

This table is meant as a quick reference guide as product availability varies by region.

Please check with your Territory Manager for a full product offering in your region.

Sustainability

Knauf products with ECOSE® Technology are made using our patented, bio-based binder – a smarter alternative to the phenol/formaldehyde (PF) binder traditionally used in fiberglass products. The bio-based binder holds our product together, gives the product its unique appearance and makes it formaldehyde-free. All of our products contain some raw materials from sustainable resources, such as recycled glass. And we're proud to be putting glass bottles back to work rather than into landfills. Our products are made with a minimum of 50% recycled glass.

Acoustical Performance

Performance+ EcoBatt provides excellent acoustical properties and will reduce sound transmission when properly installed in partition walls and acoustical ceiling and floor systems. Knauf acoustical/thermal insulation can improve STC ratings in wood stud construction by 3 to 5 points and metal stud construction by 8 to 10 points depending upon the complexity of the wall configurations, R-values and layers of insulation.

Fiberglass and Mold

Fiberglass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold, it must be discarded. If the material is wet, but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced.

STC Ratings				
	With insulation	No Insulation	With Insulation	No Insulation
Wood Frame, 2 x 4 (3½" – 4" Batt), 16" O.C.	(with ½" gypsum wallboard both sides)		(with ⅝" Type X gypsum wallboard both sides)	
Single studs/Single layer gypsum	38	35	38	34
Single studs/Resilient channel	47	39	50	40
Staggered studs/Single layer gypsum	49	39	51*	43
Double stud walls/Single layer gypsum	57	46	56	45
Steel Frame (2½" studs) (2½" – 2⅝" Batt), 25 gauge, 24" O.C.	(with ½" gypsum wallboard both sides)		(with ⅝" Type X gypsum wallboard both sides)	
Single layer gypsum	45	36	47	39
Double layer gypsum one side/Single layer gypsum other side	50	39	52	44
Double layer both sides	54	45	57	48
Steel Frame (3 ⅝" studs) (3½" – 4" Batt), 25 gauge, 24" O.C.	(with ½" gypsum wallboard both sides)		(with ⅝" Type X gypsum wallboard both sides)	
Single layer gypsum	47	39	50	39
Double layer gypsum one side/Single layer gypsum other side	52	43	55	47
Double layer both sides	56	50	58	52

*STC reflects two 2 ½" thick fiberglass batts used

Additional Assemblies	STC
Wood frame, 2 x 4 (3½" – 4" Batt), 24" O.C., ½" thick gypsum board, single layer one side, double layer other side, resilient channel	55
Wood frame, 2 x 4 (3½" – 4" Batt), 24" O.C., ½" thick gypsum board, double layer both sides, resilient channel	57
Wood frame, 2 x 4 staggered studs (3½" – 4" Batt), 24" O.C., ½" thick gypsum board, single layer both sides	52
Wood frame, 2 x 4 (3½" – 4" Batt), 24" O.C., ⅝" thick Type X gypsum board, single layer both sides	40
Wood frame, 2 x 4 (3½" – 4" Batt), 24" O.C., ⅝" thick Type X gypsum board, single layer both sides, resilient channel	52

Check with your Knauf Insulation Territory Manager to ensure information is current.

The chemical and physical properties of this product represent average values determined in accordance with accepted test methods. The data is subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

Consult with or follow local building and energy codes to determine appropriate R-values and need for and placement of a vapor retarder.

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This product is covered by one or more U.S. and/or other patents.

See patent www.knaufnorthamerica.com/patents

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