



Product Reference

BI-CC 09-13

# Building Insulation Product Comparison Guide

**Batts & Blankets — Wood Frame Construction  
Thermal Applications — Standard Products**

	Knauf Insulation		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	EcoBatt Insulation		EcoTouch Fiber Glass Insulation		Formaldehyde-Free Building Insulation		Sustainable Building Insulation		Fiber Glass Insulation	
Thickness/ R-Value*	3½"	R-11	3½"	R-11	3½"	R-11	3½"	R-11	3½"	R-11
	3½"	R-13	3½"	R-13	3½"	R-13	3½"	R-13	3¾"	R-13
	6¼"	R-19	6¼"	R-19	6½"	R-19	6¼"	R-19	6¼"	R-19
	6½"	R-22	—	—	7½"	R-22	6½"	R-22	7½"	R-22
	8½"	R-25	8"	R-25	8¼"	R-25	8"	R-25	8½"	R-25
	9"	R-26	—	—	—	—	8¾"	R-26	—	—
	10"	R-30	9½"	R-30	10¼"	R-30	10"	R-30	10"	R-30
	12"	R-38	12"	R-38	12½"	R-38	12"	R-38	12"	R-38
	13¾"	R-49	—	—	—	—	—	15"	R-49	

**Thermal Applications — High Density Insulation Products**

	High Density		High Density		High Performance		High Performance Batts		R-Best® High Density Batts	
Brand Name	High Density		High Density		High Performance		High Performance Batts		R-Best® High Density Batts	
Thickness/ R-Value	3½"	R-15HD	3½"	R-15	3½"	R-15	3½"	R-15	3¾"	R-15
	5½"	R-21HD	5½"	R-21	5½"	R-21	5½"	R-21	5½"	R-21
	5½"	R-23HD	5½"	R-23	5½"	R-23	5½"	R-23	5½"	R-23
	8¼"	R-30HD	8¼"	R-30C	8¼"	R-30C	8¼"	R-30C	8¼"	R-30
	10¼"	R-38HD	10¼"	R-38C	10¼"	R-38C	10"	R-38C	10½"	R-38

**Acoustical Applications**

	EcoBatt Insulation	QuietZone® Acoustic Batts	Formaldehyde-Free Building Insulation	Building Insulation NoiseReducer™ Batts	Fiber Glass Insulation
Brand Name	EcoBatt Insulation	QuietZone® Acoustic Batts	Formaldehyde-Free Building Insulation	Building Insulation NoiseReducer™ Batts	Fiber Glass Insulation
Thickness R-Value	3½"	3½"	3½"	3½"	3½"
	6¼"	6¼"	6½"	6¼"	6¼"
	8½"	8"	8¼"	8"	8½"
	10"	9½"	10¼"	10"	9½"
	12"	12"	12¼"	12"	12"

**Thermal/Acoustical Applications — Encapsulated Products**

	None†	None†	ComfortTherm®		Easy Touch™		None†
Brand Name	None†	None†	ComfortTherm®		Easy Touch™		None†
Thickness/ R-Value			3½"	R-11	3½"	R-13	
			3½"	R-13	8"	R-25	
			6½"	R-19	10"	R-30	
			10¼"	R-30			

**Specifications**

Facing††	Unfaced Kraft	Unfaced Kraft	Unfaced Kraft Poly (FHC 25/50)** Non-vapor Barrier Poly	Unfaced Kraft Foil (FHC 75/150) FSK (FHC 25/50) MemBrain Non-vapor Barrier Poly	Unfaced Kraft Foil
Form	Batts Rolls	Batts Rolls	Batts Rolls	Batts Rolls	Batts Rolls
Color	Brown	Pink	White/Brown	Brown	Yellow
Specification Compliance	<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) <b>ASTM E 136 (Unfaced)</b> <b>CA Energy Commission</b> <b>MEA 498-90-M</b>	<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) <b>ASTM E 136 (Unfaced)</b>	<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft)	<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) <b>ASTM E 136 (Unfaced)</b> <b>CA Quality Stds.</b> <b>MEA 18-80-M (Unfaced)</b> <b>MEA 19-80-M (FSK)</b>	<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) Type III, Class B (Foil)

\* Some R Values may be subject to custom product minimum order requirements.

Batts & Blankets—Metal Frame Construction										
	Knauf Insulation		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	EcoBatt Insulation		EcoTouch Fiber Glass Thermal Batts		Formaldehyde-Free Thermal Batts		Sustainable CERTAPRO™ AcoustaTherm™ Batts		Fiber Glass Insulation	
Thickness/ R-Value*	2½"	R-8QT	2½"	R-8	3½"	R-11	2½"	R-8	2½"	R-8
	3½"	R-11QT	3½"	R-11	3¾"	R-11	3½"	R-11	3½"	R-11
	3½"	R-13QT	3½"	R-13	3½"	R-13	—	—	3¾"	R-13
	3½"	R-15HD	3½"	R-15	3½"	R-15	—	—	—	—
	5½"	R-21HD	5½"	R-21	5½"	R-21	—	—	—	—
	6½"	R-19QT	6¼"	R-19	6½"	R-19	6¼"	R-19	6¼"	R-19
	7½"	R-22	—	—	7½"	R-22	—	—	—	—
	9"	R-26	—	—	8¼"	R-25	—	—	—	—
	10"	R-30	9½"	R-30	10¼"	R-30	10"	R-30	10"	R-30
12"	R-38	12"	R-38	12½"	R-38	—	—	12"	R-38	
Acoustical Applications										
Brand Name	EcoBatt QuietTherm Insulation		EcoTouch Sound Attenuation Batts		Formaldehyde-Free Sound Control Batts		Sustainable CERTAPRO™ AcoustaTherm Batts		Fiber Glass Insulation	
Thickness	2½"		2½"		2¾"		2½"		2½"	
	3½"		3½"		3¾"		3½"		3½"	
	6¼"		6¼"		6½"		6¼"		6¼"	
	—		8"		—		—		—	
	—		9½"		—		10"		9½"	
	—		12"		—		—		12"	
Thermal/Acoustical Applications—Encapsulated Products										
Brand Name	None†		None†		ComfortTherm®		None†		None†	
Thickness/ R-Value					3½"	R-11				
					3½"	R-13				
Specifications										
Facing††	Unfaced Kraft Foil FSK 25 (FHC 25/50)		Unfaced Kraft Foil (FHC 75/150) FRK (FHC 25/50)		Unfaced Kraft Foil FSK 25 (FHC 25/50) Poly (FHC 25/50)** Non-vapor Barrier Poly		Unfaced Kraft (No Tab) Foil (FHC 75/150) FSK, PSK (FHC 25/50) Kraft White-Kraft		Unfaced Kraft Foil FSK 25 (FHC 25/50)	
Form	Batts		Batts		Batts		Batts		Batts, Rolls	
Color	Brown		Pink		White/Brown		Brown		Yellow	
Specification Compliance	<b>ASTM C 665</b> Type I, (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) Type III, Class C (Foil) <b>ASTM E 136 (Unfaced)</b> <b>CA Energy Commission</b> <b>MEA 498-90-M</b>		<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) Type III, Class C (Foil) <b>ASTM E 136 (Unfaced)</b>		<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) <b>ASTM E 136 (Unfaced)</b>		<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) <b>ASTM E 136 (Unfaced)</b> <b>CA Quality Stds.</b> <b>MEA 18-80-M (Unfaced)</b> <b>MEA 19-80-M (FSK)</b>		<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil)	

† Standard Building Insulation products may be suitable for substitution whenever encapsulation is specified for installer comfort only.

†† Consult with manufacturer to determine facing availability and lead times on batt and blanket products.

\* Some R Values may be subject to minimum order requirements"

\*\* These values reflect the product's surface burning characteristics when tested in accordance with ASTM E84. Appendix X3 of ASTM E84-99 states that facings which melt, drip or pull away from the flame and are assigned a low FSI based on this method, may exhibit flame-over conditions during room fire tests with increasing area of exposure. In our opinion this product should not be used in an exposed application within a living unit. Knauf Insulation recommends using unfaced or FSK-25 foil-faced products or covering with an approved finish material.

\* Some R Values may be subject to custom product minimum order requirements.

Batts & Blankets Suspended Ceilings										
	Knauf Insulation		Owens Corning		Johns Manville		CertainTeed		Guardian	
<b>Brand Name</b>	EcoBatt QuietTherm® Insulation		EcoTouch Sonobatts® Insulation		Formaldehyde-Free Thermal and Acoustical Batts		Sustainable CertaPro AcoustaTherm Ceiling Batts		Fiber Glass Insulation	
<b>Thickness/ R-Value</b>	3½"	R-11	3½"	R-11	3½"	R-11	3½"	R-11	3½"	R-11
	6¼"	R-19	6¼"	R-19	6¼"	R-19	6¼"	R-19	6¼"	R-19
	10"	R-30	9½"	R-30	10¼"	R-30	10"	R-30	10"	R-30
	12"	R-38	12"	R-38	13"	R-38	—		12"	R-38
<b>Facing</b>	Unfaced Kraft		Unfaced Kraft		Unfaced Kraft		Unfaced Kraft (No Tab)		Unfaced Kraft	
<b>Form</b>	Batts		Batts		Batts		Batts		Batts	
<b>Color</b>	Brown		Pink		White/Brown		Brown		Yellow	
<b>Specification Compliance</b>	<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) <b>ASTM E 136</b> (Unfaced) <b>CA Energy Commission</b> <b>MEA 498-90-M</b>		<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) <b>ASTM E 136</b> (Unfaced)		<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft)		<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft) <b>ASTM E 136</b> (Unfaced) <b>MEA 18-80-M</b> (Unfaced)		<b>ASTM C 665</b> Type I (Unfaced) Type II, Class C (Kraft)	

Specialty Insulation Shaft Wall Insulation										
	Knauf Insulation		Owens Corning		Johns Manville		CertainTeed		Guardian	
<b>Brand Name</b>	None		Shaftwall		Insul-SHIELD® 100		Shaftwall™ Batts		None	
<b>Thickness/R-Value</b>			1½"	R-5.8	1½"	R-6.0	1½"	R-5.8		
<b>Facing</b>			Unfaced		Unfaced		Unfaced			
<b>Form</b>			Batts 24" X 96"		Batts 24" X 48"		Batts 24" X 48"			
<b>Color</b>			Yellow		Yellow		Yellow			
<b>Specification Compliance</b>			<b>ASTM C 665</b> Type I <b>FHC 25/50</b>		<b>ASTM C 665</b> Type I <b>FHC 25/50</b> <b>ASTM E 136</b> <b>FHC 25/50</b>		<b>ASTM C 665</b> Type I & II <b>ASTM C 665 Type I</b> <b>ASTM E 136</b>			
Panel Wood Deck Insulation										
<b>Brand Name</b>	Extended Flanges FSK-25		Extended Flanges Flame Spread 25		Panel Deck		CertaPro Thermal Extended Flange		None	
<b>Thickness/R-Value</b>	6¼"	R-19	6¼"	R-19	6¼"	R-19	6¼"	R-19	10"	R-30
<b>Facing</b>	FSK (4" Flanges)		FRK W-PSK (White) (4" Flanges)		FSK W-PSK (4" Flanges)		FSK White PSK (All have 4" Flanges)			
<b>Form</b>	Batts		Batts		Batts		Batts			
<b>Color</b>	Brown		Pink		White/Brown		Brown			
<b>Specification Compliance</b>	<b>ASTM C 665</b> Type III, Class A <b>FHC 25/50</b>		<b>ASTM C 665</b> Type II, Class A (PSK) Type III, Class A (FRK) <b>FHC 25/50</b>		<b>ASTM C 553 (Type I)</b> Type III, Class A <b>FHC 25/50</b>		<b>ASTM C 665</b> Type II, Class A (PSK) Type III, Class A (FSK) <b>FHC 25/50</b>			

Loose Fill Insulation Thermal Attic Applications					
	Knauf Insulation	Owens Corning	Johns Manville	CertainTeed	Guardian
<b>Brand Name</b>	Jet Stream® Ultra	Pro Pink® L77	Climate Pro®	InsulSafe® SP	Attic Guard® Plus
<b>Type</b>	Unbonded	Unbonded	Unbonded	Unbonded	Unbonded
<b>Color</b>	White	Pink	White	White	White
<b>R/inch @ R-30</b>	2.89	2.92	2.70	2.55	2.76
<b>Minimum Weight/ Wt/SF @ R-30</b>	.437 lbs.	.428 lbs.	.432 lbs.	.462 lbs.	.510 lbs.
<b>Specification Compliance</b>	<b>ASTM C 764</b> Type I <b>ASTM E 136</b> FS 5/SD 5	<b>ASTM C 764</b> Type I <b>ASTM E 136</b> FS 0/SD 0	<b>ASTM C 764</b> Type I <b>ASTM E 136</b> FHC 25/50	<b>ASTM C 764</b> Type I <b>ASTM E 136</b> FS 5/SD 5 MEA 218-85-M	<b>ASTM C 764</b> Type I <b>ASTM E 136</b>
<b>Brand Name</b>	Brown Label	Therma Glas®	Rich-R	UltraTherm®	Supercube II®
<b>Type</b>	Bonded	Bonded	Bonded	Bonded	Bonded
<b>Color</b>	Brown	Pink	Yellow	Brown	Yellow
<b>R/inch (@ R-30)</b>	2.22	2.55	2.61	2.35	2.5
<b>Minimum Weight/ Wt/SF @ R-30</b>	.679 lbs.	.666 lbs.	.911 lbs.	.638 lbs.	.541 lbs.
<b>Specification Compliance</b>	<b>ASTM C 764</b> Type I <b>ASTM E 136</b> FS 5/SD 5	<b>ASTM C 764</b> Type I <b>ASTM E 136</b>	<b>ASTM C 764</b> Type I <b>ASTM E 136</b> FHC 5/5	<b>ASTM C 764</b> Type I <b>ASTM E 136</b> FS 5/SD 5	<b>ASTM C 764</b> Type I <b>ASTM E 136</b>

Loose Fill Insulation Cavity Applications					
	Knauf Insulation	Owens Corning	Johns Manville	CertainTeed	Guardian
<b>Brand Name</b>	Jet Stream® Ultra	Pro Pink Complete®	Climate Pro BIBS	Optima®	Perfect Fill
<b>Type</b>	Unbonded	Unbonded	Unbonded	Unbonded	Unbonded
<b>Color</b>	White	Pink	White	White	White
<b>Density (pcf.) LB @ R-15</b>	1.8	1.5	1.5	1.8	2.0
<b>Specification Compliance</b>	<b>ASTM C 764</b> <b>ASTM E 136</b> FS 5/SD 5	<b>ASTM C 764</b> <b>ASTM E 136</b> FS 5/SD 5	<b>ASTM C 764</b> <b>ASTM E 136</b> FS 25/SD 50	<b>ASTM C 764</b> <b>ASTM E 136</b> FS 5/SD 5	<b>ASTM C 764</b> <b>ASTM E 136</b> FS 25/SD 50

Insulation Board Thermal Application							
	Knauf Insulation	Owens Corning	Johns Manville	CertainTeed	Guardian		
<b>Brand Name</b>	Insulation Board	CW 225 700 Series		InsulSHIELD®	Commercial Board		
<b>Density</b>	1.60 PCF	CW225	2.25 PCF	I/S 100	1.00 PCF	CB 150	1.50 PCF
	2.25 PCF	701	1.50 PCF	I/S 150	1.50 PCF	CB 225	2.25 PCF
	3.00 PCF	703	3.00 PCF	I/S 225	2.25 PCF	CB 300	3.00 PCF
	4.25 PCF	705	6.00 PCF	I/S 300	3.00 PCF	CB 600	6.00 PCF
	6.00 PCF			I/S 600	6.00 PCF		
<b>Thickness</b>	<b>1.60 PCF</b>	<b>CW 225</b>	<b>I/S 100</b>	<b>CB 150</b>			
	1½", 2", 2½", 3", 3½", 4"	1" to 4" (½" Inc.)	1½"	1½" to 4" (½" Inc.)			
	<b>2.25 PCF</b>	<b>701</b>	<b>I/S 150</b>	<b>CB 225</b>			
	1", 1½", 2", 2½", 3", 3½", 4"	1" to 4" (½" Inc.)	1", 1½", 2", 2½", 3", 3½", 4"	1" to 4" (½" Inc.)			
	<b>3.00 PCF</b>	<b>703</b>	<b>I/S 225</b>	<b>CB 300</b>			
	1", 1½", 2", 2½", 3", 4"	1" to 4" (½" Inc.)	1", 1½", 2", 2½", 3", 3½", 4"	1" to 4" (½" Inc.)			
	<b>4.25 PCF</b>	<b>705</b>	<b>I/S 300</b>	<b>CB 600</b>			
	1", 1½", 2", 2½"	1" to 3" (½" Inc.)	1", 1½", 2", 2½", 3", 3½", 4"	1", 1½", 2"			
	<b>6.00 PCF</b>		<b>I/S 600</b>				
	1", 1½", 2"		1", 1½", 2", 2½", 3"				
<b>Size</b>	24" x 48"	24" x 48"	24" x 48" I/S 100, 150—Rolls	24" x 48"			
<b>Facing</b>	FSK, ASJ, PSK	FSK, ASJ	FSK, PSK	FSK, ASJ			
<b>Temperature Limit</b>	450°F	450°F	Unfaced 350°F Faced 250°F	Unfaced 450°F Faced 250°F			
<b>Specification Compliance</b>	<b>ASTM C 612</b> Type IA & IB <b>ASTM C 795</b> <b>ASTM C 1136</b> (Facing) ASJ—Type I, II, III, IV FSK & PSK—Type II, IV <b>California Title 24</b> <b>HH-B-100B</b> ASJ—Type I FSK & PSK—Type II <b>HH-I-558C</b> Form A, Class 1 and 2 <b>MIL-I-24244C</b> <b>NFPA 90A and 90B</b> <b>NRC Reg. Guide 1.36</b> <b>In Canada:</b> <b>CAN/ULC S102-M88</b> <b>CGSB 51-GP-10M</b> <b>CGSB 51-GP-52M</b> (Facings)	<b>ASTM C 553</b> Type III (701) <b>ASTM C 612</b> Type IA & IB (703, 704, 705) <b>ASTM C 795</b> <b>ASTM C 1136</b> (Facing) <b>MEA 277-83-M</b> (703, 705, Plain, FRK) <b>FHC 25/50</b>	<b>ASTM C 553</b> Type I & II (I/S 100, I/S 150) <b>ASTM C 612</b> Type IA (Except I/S 100) <b>ASTM C 612</b> Type IB (I/S 300, I/S 600) <b>FHC 25/50</b> <b>ASTM E 136</b> (Except I/S 600)	<b>ASTM C 553</b> Type I, II, III (CB 150) <b>ASTM C 612</b> Type IA (CB 225, 300, 600) <b>ASTM C 1136 (Facing)</b> <b>NFPA 90A, 90B</b> Type IB (CB 300, 600) <b>FHC 25/50</b> <b>NFPA 259</b> <b>MEA 35-79-M</b>			

Black Acoustical Board Thermal/Acoustical Applications									
	Knauf Insulation		Owens Corning		Johns Manville		CertainTeed		Guardian
<b>Brand Name</b>	Black Acoustical Board		SelectSound™ Black Acoustic Board		Insul-SHIELD® Black		CERTAPRO AcoustaBoard™ Black		None
<b>Density/Thickness/ R-Value</b>	<b>2.25 PCF</b>		—		<b>2.25 PCF</b>		<b>2.25 PCF (Type 225)</b>		
	—		—		1"	R-4.0	1"	R-4.3	
	—		—		—		1½"	R-6.5	
	2"	R-8.6	—		2"	R-8.0	2"	R-8.7	
	<b>3.0 PCF</b>		<b>3.0 PCF</b>		<b>3.0 PCF</b>		<b>3.0 PCF (Type 300)</b>		
	1"	R-4.3	1"	R-4.3	1"	R-4.3	1"	R-4.3	
	1½"	R-6.5	—		1½"	R-6.5	1½"	R-6.5	
	2"	R-8.6	2"	R-8.6	2"	R-8.7	2"	R-8.7	
	—		—		2½"	R-10.9	—		
	—		—		3"	R-13	—		
<b>Facing/Coating</b>	Mat		Mat		Mat		Mat		
<b>Form</b>	Boards		Boards		Boards		Boards		
<b>Color</b>	Brown Board/ Black Coating		Black Board/ Black Mat		Yellow Board/ Black Mat		Yellow Board/ Black Mat		
<b>Specification Compliance</b>	<b>FHC 25/50</b>		<b>FHC 25/50</b>		<b>FHC 25/50</b> <b>ASTM C 612</b> Type IA & IB		<b>FHC 25/50</b> <b>ASTM C 612</b> Type IA (225, 300) Type IB (300)		

# KNAUF INSULATION

it's time to save energy

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ThermaCube®, QuietZone®, Sonobatts®, Pro Pink™, Pro Pink Complete® and SelectSound™ are registered trademarks or are trademarks pending of Owens Corning.

ComfortTherm®, Climate Pro®, ThermalSHIELD™, InsulSHIELD™, Spider™ and Insul-SHIELD™ are registered trademarks or trademarks pending of Johns Manville Insulation.

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## Black Acoustical Blanket Thermal/Acoustical Applications

	Knauf Insulation	Owens Corning	Johns Manville	CertainTeed	Guardian		
<b>Brand Name</b>	Wall & Ceiling Liner M	Select Sound Black Acoustic Blanket	Insul-SHIELD Coated Black	CERTAPRO AcoustaBlanket™ Black	None		
<b>Density/Thickness/ R-Value</b>	<b>1.0 PCF</b>		<b>1.0 PCF</b>				
	1"	R-3.6	—	1"	R-3.8	—	
	1½"	R-5.4	—	—	—	—	
	2"	R-7.1	—	2"	R-7.7	—	
	<b>1.5 PCF</b>		<b>1.5 PCF</b>		<b>1.5 PCF</b>		
	½"	R-2.0	—	—	—	—	
	1"	R-4.2	1"	R-4.2	—	1"	R-4.2
	1½"	R-6.0	—	—	—	1½"	R-6.3
	2"	R-8.0	2"	R-8.5	—	2"	R-8.3
	<b>2.0 PCF</b>				<b>2.0 PCF</b>		
½"	R-2.1	—	—	½"	R-2.1	—	
1"	R-4.2	—	—	—	—	—	
<b>Facing/Coating</b>	Mat	Mat	Coated Mat	Coating			
<b>Form</b>	Rolls 48" Width	Rolls 72" Width	Rolls 48" Width	Rolls 48" Width			
<b>Color</b>	Brown Blanket/ Black Mat	Black Blanket/ Black Mat	Black Blanket/ Black Coated Mat	Black Blanket/ Black Mat			
<b>Specification Compliance</b>	<b>ASTM C 553</b> Type II, Type III <b>FHC 25/50</b>	<b>ASTM C 553</b> Type III <b>FHC 25/50</b>	<b>ASTM C 553</b> Type I, Type II <b>FHC 25/50</b>	<b>ASTM C 553</b> Type I, Type II <b>FHC 25/50</b>			