



Product Reference

BI-PL-36 05-07

Building Insulation Product Reference Guide

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

	Knauf Insulation		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	Premium Building Insulation		Pink Fiber Glass Thermal Batt Insulation		Formaldehyde-Free Building Insulation		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	3½"	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	—	—	—	—	8"	R-26	—	—
	10"	R-30	9½"	R-30	10¼"	R-30	10"	R-30	9½"	R-30
12"	R-38	12"	R-38	12½"	R-38	12"	R-38	12"	R-38	

Thermal Applications—High Density Insulation Products

Brand Name	High Density Batts		High Density Pink		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	3½"	R-15
	5½"	R-21HD	5½"	R-21	5½"	R-21	5½"	R-21	5½"	R-21
	8¼"	R-30HD	8¼"	R-30C	8¼"	R-30C	8¼"	R-30C	8½"	R-30
	10¼"	R-38HD	10¼"	R-38C	10¼"	R-38C	10"	R-38C	10½"	R-38

Acoustical Applications

Brand Name	Premium Building Insulation	Pink Fiber Glass QuietZone® Acoustical 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

Brand Name	None†	None†	ComfortTherm®		None†	None†
Thickness/ R-Value			3½"	R-11		
			3½"	R-13		
			3½"	R-15		
			5½"	R-21		
			6½"	R-19		
			8¼"	R-25		
			10¼"	R-30		

Specifications

Facing††	Unfaced Kraft	Unfaced Kraft Pink-Kraft (Not Vapor Retarder) Kraft/Poly Wrap Perforated Poly	Unfaced Kraft Poly (FHC 25/50)** Non-vapor Barrier Poly	Unfaced Kraft Foil (FHC 75/150) FSK (FHC 25/50) White-Kraft	Unfaced Kraft Foil
Form	Batts Rolls	Batts Batt in Rolls Rolls	Batts Rolls	Batts Rolls	Batts Rolls
Color	Yellow	Pink	White	Yellow	Yellow
Specification Compliance	ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) ASTM E 136 (Unfaced) CA Energy Commission MEA 498-90-M	ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) ASTM E 136 (Unfaced)	ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft)	ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) ASTM E 136 (Unfaced) CA Quality Stds. MEA 18-80-M (Unfaced) MEA 19-80-M (FSK)	ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) Type III, Class B (Foil)

Batts & Blankets—Metal Frame Construction										
	Knauf Insulation		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	Commercial Building Insulation (CBI)		Pink Fiber Glass Thermal Batts		Formaldehyde-Free Thermal Batts		CERTAPRO™ AcoustaTherm™ Batts		Fiber Glass Insulation	
Thickness/ R-Value	2½"	R-8QT	2½"	R-8	3½"	R-11	2½"	R-8	2⅝"	R-8
	3½"	R-11QT	3½"	R-11	3⅝"	R-11	3½"	R-11	3½"	R-11
	3½"	R-13QT	3½"	R-13	3½"	R-13	3½"	R-13	3⅝"	R-13
	3½"	R-15	3½"	R-15	3½"	R-15	—	—	—	—
	5½"	R-21	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	9½"	R-30
	12"	R-38	12"	R-38	12½"	R-38	12"	R-38	12"	R-38
				Thermal-SHIELD Free						
				6¼"	R-19					
Acoustical Applications										
Brand Name	QuietTherm Premium Building Insulation		Pink Fiber Glass Sound Attenuation Batts		Formaldehyde-Free Sound Control Batts		CERTAPRO™ AcoustaTherm Batts		Fiber Glass Insulation	
Thickness	2½"		2½"		2¼"		2½"		2⅝"	
	3½"		3½"		3⅝"		3½"		3½"	
	6¼"		6¼"		6½"		6¼"		6¼"	
	8½"		8"		—		—		—	
	10"		9½"		—		10"		9½"	
	12"		12"		—		—		12"	
Thermal/Acoustical Applications—Encapsulated Products										
Brand Name	None†		None†		ComfortTherm®		None†		None†	
Thickness/ R-Value					3½"	R-11				
					3½"	R-13				
					3½"	R-15				
Specifications										
Facing††	Unfaced Kraft Foil FSK 25 (FHC 25/50)		Unfaced Kraft Foil (FHC 75/150) FRK (FHC 25/50) Pink-Kraft (Not Vapor Retarder)		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	Yellow		Pink		White		Yellow		Yellow	
Specification Compliance	ASTM C 665 Type I, (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) Type III, Class C (Foil) ASTM E 136 (Unfaced) CA Energy Commission MEA 498-90-M		ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) Type III, Class C (Foil) ASTM E 136 (Unfaced)		ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) ASTM E 136 (Unfaced)		ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) Type III, Class A (FSK) Type III, Class B (Foil) ASTM E 136 (Unfaced) CA Quality Stds. MEA 18-80-M (Unfaced) MEA 19-80-M (FSK)		ASTM C 665 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.

** 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.

Batts & Blankets Suspended Ceilings										
	Knauf Insulation		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	QuietTherm® Premium Building Insulation		Sonobatts® Insulation Thermal Batts		Formaldehyde-Free Thermal and Acoustical Batts		CertaPro AcoustaTherm CertaSound™ Acoustical Ceiling Batts		Fiber Glass Insulation	
Thickness/ R-Value	3½"	R-11	3½"	R-11	4"	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	—		10"	R-30	9½"	R-30
	12"	R-38	12"	R-38	—		—		12"	R-38
Facing	Unfaced Kraft		Unfaced Kraft		Unfaced Kraft		Unfaced Kraft (No Tab)		Unfaced Kraft	
Form	Batts		Batts		Batts		Batts		Batts	
Color	Yellow		Pink		White		Yellow		Yellow	
Specification Compliance	ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) ASTM E 136 (Unfaced) CA Energy Commission MEA 498-90-M		ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) ASTM E 136 (Unfaced)		ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft)		ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft) ASTM E 136 (Unfaced) MEA 18-80-M (Unfaced)		ASTM C 665 Type I (Unfaced) Type II, Class C (Kraft)	

Specialty Insulation Shaft Wall Insulation										
	Knauf Insulation		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	None		Shaftwall		Insul-SHIELD® 100		Shaftwall™ Batts		None	
Thickness/R-Value			1½"	R-5.8	1½"	R-6.0	1½"	R-5.8		
Facing			Unfaced		Unfaced		Unfaced			
Form			Batts 24" X 96"		Batts 24" X 48"		Batts 24" X 48"			
Color			Yellow		Yellow		Yellow			
Specification Compliance			ASTM C 665 Type I FHC 25/50		ASTM C 665 Type I FHC 25/50 ASTM E 136 FHC 25/50		ASTM C 553 Type I & II ASTM C 665 Type I ASTM E 136			
Panel Wood Deck Insulation										
Brand Name	Extended Flanges FSK-25		Extended Flanges Flame Spread 25		Panel Deck		CertaPro Thermal Extended Flange		None	
Thickness/R-Value	6¼"	R-19	6¼"	R-19	6¼"	R-19	6¼"	R-19	10"	R-30
	10"	R-30	9½"	R-30			10"	R-30		
Facing	FSK (4" Flanges)		FRK W-PSK (White) (4" Flanges)		FSK W-PSK (4" Flanges)		FSK White PSK Black PSK (All have 4" Flanges)			
Form	Batts		Batts		Batts		Batts			
Color	Yellow		Pink		White		Yellow			
Specification Compliance	ASTM C 665 Type III, Class A FHC 25/50		ASTM C 665 Type II, Class A (PSK) Type III, Class A (FRK) FHC 25/50		ASTM C 553 (Type I) Type III, Class A FHC 25/50		ASTM C 665 Type II, Class A (PSK) Type III, Class A (FSK) FHC 25/50			

Loose Fill Insulation Thermal Attic Applications					
	Knauf Insulation	Owens Corning	Johns Manville	CertainTeed	Guardian
Brand Name	Jet Stream®	Pro Pink™	Climate Pro® Attic Protector (Retail)	InsulSafe 4®	Attic Guard®
Type	Unbonded	Unbonded	Unbonded	Unbonded	Unbonded
Color	White	Pink	White	White	White
R/inch @ R-30	2.93	2.55	2.31	2.50	2.61
Minimum Weight/ MSF @ R-30	431 lbs.	523 lbs.	500 lbs.	485 lbs.	504 lbs.
Specification Compliance	ASTM C 764 Type I ASTM E 136 FS 5/SD 5	ASTM C 764 Type I ASTM E 136	ASTM C 764 Type I ASTM E 136 FHC 25/50	ASTM C 764 Type I ASTM E 136 FS 5/SD 5 MEA 218-85-M	ASTM C 764 Type I ASTM E 136
	Blue Label	Therma Cube®	Rich-R	UltraTherm®	Supercube II®
Brand Name	Blue Label	Therma Cube®	Rich-R	UltraTherm®	Supercube II®
Type	Bonded	Bonded	Bonded	Bonded	Bonded
Color	Yellow	Pink	Yellow	Yellow	Yellow
R/inch (@ R-30)	2.31	2.45	2.61	2.35	2.5
Minimum Weight/ MSF @ R-30	681 lbs.	531 lbs.	911 lbs.	638 lbs.	541 lbs.
Specification Compliance	ASTM C 764 Type I ASTM E 136 FS 5/SD 5	ASTM C 764 Type I ASTM E 136	ASTM C 764 Type I ASTM E 136 FHC 5/5	ASTM C 764 Type I ASTM E 136 FS 5/SD 5	ASTM C 764 Type I ASTM E 136

Loose Fill Insulation Blow in Sidewall Applications				
	Knauf Insulation	Owens Corning	Johns Manville	CertainTeed
Brand Name	Perimeter Plus™	Pro Pink Complete®	Spider™	Optima®
Type	Unbonded	Unbonded	Bonded	Unbonded
Color	Green	Pink	White	White
Density (pcf.) LB @ R-15	1.8	1.8	1.8	1.8
Specification Compliance	ASTM C 764 ASTM E 136 FS 5/SD 5	ASTM C 764 ASTM E 136 FS 5/SD 5	ASTM C 764 ASTM E 136 FS 25/SD 50	ASTM C 764 ASTM E 136 FS 5/SD 5

Insulation Board Thermal Application							
	Knauf Insulation	Owens Corning	Johns Manville	CertainTeed	Guardian		
Brand Name	Insulation Board	CW 225 700 Series	Insul-SHIELD®	Commercial Board	None		
Density	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	711	1.70 PCF	I/S 225	2.25 PCF	CB 300	3.00 PCF
	4.25 PCF	703	3.00 PCF	I/S 300	3.00 PCF	CB 600	6.00 PCF
	6.00 PCF	705	6.00 PCF	I/S 600	6.00 PCF		
Thickness	1.60 PCF	CW 225	I/S 100	CB 150			
	1½", 2", 2½", 3", 3½", 4"	1" to 4" (½" Inc.)	1½"	1½" to 4" (½" Inc.)			
	2.25 PCF	701	I/S 150	CB 225			
	1", 1½", 2", 2½", 3", 3½", 4"	1" to 4" (½" Inc.)	1", 1½", 2", 2½", 3", 3½", 4"	1" to 4" (½" Inc.)			
	3.00 PCF	703	I/S 225	CB 300			
	1", 1½", 2", 2½", 3", 4"	1" to 4" (½" Inc.)	1", 1½", 2", 2½", 3", 3½", 4"	1" to 4" (½" Inc.)			
	4.25 PCF	705	I/S 300	CB 600			
	1", 1½", 2", 2½"	1" to 3" (½" Inc.)	1", 1½", 2", 2½", 3", 3½", 4"	1", 1½", 2"			
	6.00 PCF		I/S 600				
1", 1½", 2"		1", 1½", 2", 2½", 3"					
Size	24" x 48"	24" x 48"	24" x 48" I/S 100, 150—Rolls	24" x 48"			
Facing	FSK ASJ	FRK ASJ	FSK PSK	FSK ASJ			
Temperature Limit	450°F	450°F	Unfaced 350°F Faced 250°F	Unfaced 450°F Faced 250°F			
Specification Compliance	ASTM C 612 Type IA & IB ASTM C 795 ASTM C 1136 (Facing) ASJ—Type I, II, III, IV FSK & PSK—Type II, IV California Title 24 HH-B-100B ASJ—Type I FSK & PSK—Type II HH-I-558C Form A, Class 1 and 2 MIL-I-24244C NFPA 90A and 90B NRC Reg. Guide 1.36 In Canada: CAN/ULC S102-M88 CGSB 51-GP-10M CGSB 51-GP-52M (Facings)	ASTM C 553 Type III (701) ASTM C 612 Type IA & IB (703, 704, 705) ASTM C 795 ASTM C 1136 (Facing) MEA 277-83-M (703, 705, Plain, FRK) FHC 25/50	ASTM C 553 Type I & II (I/S 100, I/S 150) ASTM C 612 Type IA (Except I/S 100) ASTM C 612 Type IB (I/S 300, I/S 600) FHC 25/50 ASTM E 136 (Except I/S 600)	ASTM C 553 Type I, II, III (CB 150) ASTM C 612 Type IA (CB 225, 300, 600) ASTM C 1136 (Facing) NFPA 90A, 90B Type IB (CB 300, 600) FHC 25/50 NFPA 259 MEA 35-79-M			

Black Acoustical Board Thermal/Acoustical Applications							
	Knauf Insulation	Owens Corning	Johns Manville		CertainTeed		Guardian
Brand Name	Black Acoustical Board	SelectSound™ Black Acoustic Board	Insul-SHIELD® Black		CERTAPRO AcoustaBoard™ Black		None
Density/Thickness/ R-Value	2.25 PCF		—		2.25 PCF		2.25 PCF (Type 225)
	—		—		1"	R-4.3	1" R-4.3
	—		—		1½"	R-6.5	1½" R-6.5
	2"	R-8.6	—		2"	R-8.7	2" R-8.7
	—		—		2½"	R-10.9	—
	—		—		3"	R-13	—
	3.0 PCF		3.0 PCF		3.0 PCF		3.0 PCF (Type 300)
	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	—
	Brand Name			Coated Insul-SHIELD Black			
Density/Thickness/ R-Value			2.25 PCF				
			1"	R-4.0			
			1½"	R-6.0			
			2"	R-8.0			
			3.0 PCF				
			1"	R-4.0			
			1½"	R-6.0			
		2"	R-8.0				
Brand Name			Theatre-SHIELD™ Plus				
Density/Thickness/ R-Value			2.25 PCF				
			1"	R-4.3			
			2"	R-8.6			
			3.0 PCF				
			1"	R-4.3			
		2"	R-8.6				
Facing/Coating	Coating	Mat	Mat Coating Coated Mat		Mat		
Form	Boards	Boards	Boards		Boards		
Color	Yellow Board/ Black Coating	Black Board/ Black Mat	Yellow Board/ Black Mat Yellow Board/ Black Coating Black Board/ Black Coated Mat		Yellow Board/ Black Mat		
Specification Compliance	FHC 25/50	FHC 25/50	FHC 25/50 ASTM C 612 Type IA & IB		FHC 25/50 ASTM C 612 Type IA (225, 300) Type IB (300)		

Jet Stream®, QuietTherm® and Perimeter Plus™ are registered trademarks or are trademarks pending of Knauf Insulation.

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

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

InsuSafe 4®, CERTAPRO™, AcoustaTherm™, NoiseReducer™, CertaSound™, AcoustaBlanket™, AcoustaBoard™ and Shaftwall™ are registered trademarks or are trademarks pending of CertainTeed Corporation.

Attic Guard® and Supercube II® are registered trademarks or are trademarks pending of Guardian Fiber Glass, Inc.



Knauf Insulation GmbH
One Knauf Drive
Shelbyville, IN 46176

Sales and Marketing (800) 825-4434, ext. 8300

Technical Support (800) 825-4434, ext. 8212

Fax (317) 398-3675

Information info.us@KnaufInsulation.com

World Wide Web www.KnaufInsulation.com

©2007 Knauf Insulation GmbH.

Black Acoustical Blanket Thermal/Acoustical Applications

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