



Product Reference

BI-PL-36 08-06

Building Insulation Product Reference Guide

Batts & Blankets—Wood Frame Construction										
Thermal Applications—Standard Products										
	Knauf		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	Premium Building Insulation		Pink Fiber Glass Thermal Batt Insulation		GoldLine Building Insulation		Building Insulation		Fiberglass 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-30 HD	8¼"	R-30C	8¼"	R-30C	8¼"	R-30C	8¼"	R-30
	10¼"	R-38 HD	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		GoldLine Building Insulation		Building Insulation NoiseReducer™ Batts		Fiberglass 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		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	Commercial Building Insulation (CBI)		Pink Fiber Glass Thermal Batt		Thermal-SHIELD™		CERTAPRO™ AcoustaTherm™ Batts		Fiberglass 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	6½"	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	Commercial Building Insulation (CBI)		Pink Fiber Glass Sound Attenuation Batts*		Sound-SHIELD™		CERTAPRO™ AcoustaTherm Batts		Fiberglass Insulation	
Thickness	2½"		*2½"		2¾"		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 (FS25) 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 recommends using unfaced or FSK-25 foil-faced products or covering with an approved finish material.

Batts & Blankets Suspended Ceilings										
	Knauf		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	QuietTherm Premium Building Insulation		Sonobatts® Insulation Thermal Batts		Grid-SHIELD® *Grid-SHIELD® Rx (Encapsulated)		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		Owens Corning		Johns Manville		CertainTeed		Guardian	
Brand Name	Shaft Liner		Shaftwall		Insul-SHIELD 100		Shaftwall™ Batts		None	
Thickness/R-Value	1½"	R-5.8	1½"	R-5.8	1½"	R-6.0	1½"	R-5.8		
Facing	Unfaced		Unfaced		Unfaced		Unfaced			
Form	Batts		Batts		Batts		Batts			
	24" X 48"		24" X 96"		24" X 48"		24" X 48"			
Color	Yellow		Yellow		Yellow		Yellow			
Specification Compliance	ASTM C 665 Type I FHC 25/50		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	None		Extended Flanges Flame Spread 25		Thermal-SHIELD Panel Deck		CertaPro Thermal Extended Flange		None	
Thickness/R-Value			6¼"	R-19	6¼"	R-19	6¼"	R-19		
			9½"	R-30			10"	R-30		
Facing			FRK W-PSK (White) (4" Flanges)		FSK (4" Flanges)		FSK White PSK Black PSK (All have 4" Flanges)			
Form			Batts		Batts , 23" X 46½"		Batts			
Color			Pink		Yellow		Yellow			
Specification Compliance			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	Owens Corning	Johns Manville	CertainTeed	Guardian
Brand Name	Jet Stream®	Pro Pink™	Climate Pro™ Attic Protector (Retail)	InsulSafe 4®	Pro White III®
Type	Unbonded	Unbonded	Unbonded	Unbonded	Unbonded
Color	White	Pink	White	White	White
R/inch @ R-30	2.93	2.55	2.31	2.50	2.73
Minimum Weight/ MSF @ R-30	431 lbs.	523 lbs.	500 lbs.	485 lbs.	606 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
	Knauf	Owens Corning	Johns Manville	CertainTeed	Guardian
Brand Name	Blue Label	Therma Cube®	Rich-R	UltraTherm	Supercube™ All Purpose Supercube™
Type	Bonded	Bonded	Bonded	Bonded	Bonded
Color	Yellow	Pink	Yellow	Yellow	Yellow
R/inch (@ R-30)	2.31	2.45	2.61	2.35	2.66
Minimum Weight/ MSF @ R-30	681 lbs.	531 lbs.	911 lbs.	638 lbs.	597 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	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	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 150		CB 150		
	1½", 2", 2½", 3", 3½", 4"	1" to 4" (½" Inc.)		1½"		1½" to 4" (½" Inc.)		
	2.25 PFC	701		I/S 150		CB225		
	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 PFC	703		I/S 225		CB 300		
	1", 1½", 2", 2½", 3½", 4"	1" to 4" (½" Inc.)		1", 1½", 2", 2½", 3", 3½", 4"		1" to 4" (½" Inc.)		
	4.25 PFC	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 (3.00, 4.25, 6.00 PCF) ASTM C 795 ASTM C 1136 (Facing) ASJ—Type I, II, III, IV FSK—Type II, IV MEA 324-83-M NFPA 90A, 90B FHC 25/50 ASTM E 136 (IB 1.6, IB 2.25) NFPA 259	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	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 (Type 300)		
	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	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)		



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Black Acoustical Blanket Thermal/Acoustical Applications								
	Knauf		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		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		