# SUBMITTAL SHEET

# EcoBatt® Insulation

with ECOSE® Technology

# kwauf

#### DESCRIPTION

acoustical barrier for energy-efficient construction. Their consistent quality, low dust and easy-cutting resilient fibers make fabrication simple and installation fast. EcoBatt insulation products can be used in new and retrofit wood and metal frame applications in residential and commercial structures. High Density (HD) EcoBatt batts are available where optimal thermal performance is required and space is limited. Staple-Free batt insulation is flangeless kraft-faced batts that friction fit between 16" on center wood studs, eliminating the need to staple.

# SURFACE BURNING CHARACTERISTICS

Knauf unfaced and FSK-25 batts do not exceed 25 Flame Spread and 50 Smoke Developed when tested in accordance with ASTM E84.

# FIRE SAFETY

Knauf Insulation unfaced Batts are non-combustible according to ASTM E136. Facings and coated products do affect fire safety and burning characteristics. Please consult your Knauf Insulation sales representative or technical support for additional information and appropriate applications.

CONTRACTOR: TRICITY	MENIATO
10B: Williams	FARMS

Property (Unit)	TOTAL TEST	Refformance
Corrosion	ASTM C1617	Pass
Thermal Value	ASTM C518	See chart on next page
Water Vapor Permeance	ASTM E96	Kraft Faced: 1.0 perms or less; FSK-25 and Foil Faced: 0.05 perms
Water Vapor Sorption (by weight)	ASTM C1104	Less than 5%
Combustibility	ASTM E136	Non-combustible (unfaced only)
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84	Unfaced and flamed-rated FSK facings: 25/50 Kraft facing will burn and should not be left exposed.

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FORMS AVAILA					
	Product Geseignton		d detre nen	Uniclinerate	Location .
	alland Acoustical de la				
The state of the s	and the second second control to the second	HISTORY.	R-8 (1.4)	2½" (64 mm)	
construction for	ation designed for use in wood or metal framed both new or existing structures. Specifier permitted		R-11 (1.9)	3½" (89 mm)	
choice of warm	side vapor retarders, including foil backed gypsum	-	R-13 (2.3)	3½" (89 mm)	
board or polyeth	ylene film. Unfaced fiberglass insulation is also	-	R-15 HD (2.6)	3½" (89 mm)	
an excellent sou	nd control insulation, designed for installation in		R-19 (3.3)	6¼" (159 mm)	EX WALLS
partition walls a	nd as a lay-in over acoustical ceiling panets. When		R-20 (3.5)	5½* (140 mm)	EV MAII?
Classification of	ance with ASTM E84, material has Fire Hazard		R-21 HD (3.7)	5½* (140 mm)	
Classification of	23/30 of less.		R-22 (3.8)	6½" (165 mm)	
Specification Co	mpliance		R-23 HD (4.0)	5½' (140 mm)	
	55; Type I, Class A		R-25 (4.4)	8* (203 mm)	
	F; Type I, Class A		R-30 (5.3)	9½* (241 mm)	
ASTM E1:			R-30 (5.3)	10° (254 mm)	
<ul> <li>U1. Classif</li> </ul>	ied FHC 25/50 (BKNV.R8582)		R-30 HD (5.3)	8¼' (210 mm)	
			R-38 (6.7)	12" (311 mm)	CeilinG AREA
H			R-38 HD (6.7)	10¼ (260 mm)	1400
			R-49 (8.6)	13¾ (349 mm)	
Kraft Faced The	ermal and Acoustical	l file			
Eiborglass insula		T	R-11 (1.9)	3½" (89 mm)	
vapor retarder ha	tion with kraft paper with or without flanges. Kraft s vapor transmission (permeance) rating of 1.0	-	R-13 (2.3)	3½" (89 mm)	
	ed fiberglass insulation is also an excellent sound	-	R-15 HD (2.6)	3½" (89 mm)	
	, designed for installation in partition walls or other	-	R-19 (3.3)	6¼' (159 mm)	
applications whe	re the facing will be covered. Kraft facing will burn	-	R-20 (3.5)	5½" (140 mm)	
and should not b	e left exposed. Install kraft facing in contact with	-	R-21 HD (3.7)	5½' (140 mm)	
approved finish r	naterial.	-	R-22 (3.8)	6½" (165 mm)	<del> </del>
			R-23 HD (4.0)	5½' (140 mm)	
Specification Cor		-	R-25 (4.4)	8° (203 mm)	
	5; Type II, Class C ; Type II, Class C	_	R-30 (5.3)	9½" (241 mm)	
1111-0211	, type ii, diass c		R-30 (5.3)	10" (254 mm)	
			R-30 HD (5.3)	8¼° (210 mm)	
			R-38 (6.7)	12" (311 mm)	
			R-38 HD (6.7)	10¼ (260 mm)	
	7	-	R-49 (8.6)	13¾ (349 mm)	
FSK-25 Faced		511		1374 (349 MIII)	
Citti					
with an average v	ion with a flanged reinforced foil/scrim/kraft facing apor transmission (permeance) rating of 0.05.		R-11 (1.9)	3½" (89 mm)	
When tested in a	cordance with ASTM E84, material has Fire Hazard		R-13 (2.3)	3½" (89 mm)	
Classification of a	5/50 or less.		R-19 (3.3)	6¼* (159 mm)	
Sanaidianian Car			R-21 HD (3.7)	5½' (140 mm)	
Specification Con  ASTM C66	; Type III, Class A		R-30 (5.3)	10° (254 mm)	
	Type III, Class A		R-38 (6.7)	12" (311 mm)	
Foil Faced		Part	(4-38 (6.7)	12 (311 mm)	
- Production of the production of the control of th					
Fiberglass foil insi	lation with asphalt-coated kraft/foil facing with		R-11 (1.9)	3½" (89 mm)	
rating of 0.05 or li	retarder has vapor transmission (permeance) ess. Insulation should not be left exposed. Install		R-13 (2.3)	3½" (89 mm)	,
foil facing in conta	act with approved finish material.		R-19 (3.3)	6¼" (159 mm)	
	A-15		R-21 HD (3.7)	5½* (140 mm)	
Specification Com  ASTM C665	; Type III, Class B	-	R-30 (5.3)	10" (254 mm)	
	Type III, Class B		R-38 (6.7)	10 (254 mm)	
			,, 00 (0,7)	15 (311 mm)	

# ACOUSTICAL PERFORMANCE

EcoBatt insulation 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.

			With insulation	No insulation	
Wood Frame, 2 x 4 (3½" - 4" Batt), 16" Ö.C.	(with 1/4" gypsum v	wallboard both sides)	(with %" 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/S ngle layer gypsum	57 .	46	56	45	
Steel Frame (21/2" strids) (21/2" - 21/4" Batt), 25 gauge, 24" O.C.	(with 1/4" gypsum w	(with 1/4" gypsum wallboard both sides)		(with 1/4" Type X gypsum wallboard both sides	
Single layer gypsum	45	36	47	39	
Double layer gyosum one side/Single layer gypsum other side	50-	39	52	44	
Double layer both sides	54	45	57	48	
Steel Frame (3% steeds) (31/2" - 4" Batt), 25 gauge, 24" O.C.	(with 1/2" gypsum w	(with 1/2" gypsum wallboard both sides)		(with 54" Type X gypsum wallboard both sides)	
Single layer gypsum	47	39	50	39	
Double layer gypsum one side/Single layer gypsum other side	52	42	55	47	
Doubte layer both sides	56	50	58	52	

<sup>\*</sup>STC reflects two 2 1/2 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 (3)2* - 4* Batt), 24* O.C., 1/2* 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
Nood frame, 2 x 4 (3)2" - 4" Batt), 24" O.C., %" thick Type X gypsum board, single layer both sides	40
Nood frame, 2 x 4 (3 ½" - 4" Batt), 24" O.C., %" thick Type X gypsum board, single layer both sides, resilient channel	52

### CERTIFICATIONS















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 flarne spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

This product is covered by one or more U.S. and/or other patents. See patent <a href="www.knaufno.thamerica.com/patents">www.knaufno.thamerica.com/patents</a>

Visit knaufnorthamerica.com to learn more.

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