EcoTouch® PureFiber® Technology

PINK® FIBERGLAS® INSULATION

Shhh!

FACTS ABOUT NOISE CONTROL

EcoTouch® QUIETZONE® PINK® FIBERGLAS® Acoustic Insulation

Acoustic and Fire-Rated
Wall and Floor Assemblies

Think PINK®

73

GREENGUARD GOLD

SCScertified

PINK® FIBERGLAS® Insulation

OWENS CORNING®

RECYCLED CONTENT, EFFICIENT MANUFACTURING & PRODUCT BENEFITS

- **Highest recycled content in the industry** – Owens Corning's QUIETZONE® PINK® FIBERGLAS® Acoustic Insulation is manufactured in Canada and contains a minimum of 73%* recycled content.
- Sand used in the Canadian manufacturing of EcoTouch® PINK® FIBERGLAS® Insulation is a **plentiful resource** and together, with the use of post-consumer glass, produce a product that saves more than 12 times the energy used to produce it within its first 4-5 weeks of usage in the home.

FORMALDEHYDE-FREE

- Owens Corning™ EcoTouch® QUIETZONE® PINK® FIBERGLAS® Acoustic Insulation has achieved EcoLogo Certification, is GREENGUARD GOLD Certified and is verified to be formaldehyde-free.

FIRE RATING

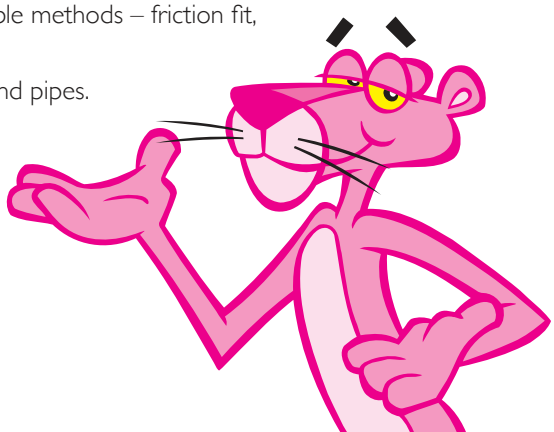
- Fiberglass insulation is inherently non-combustible because it is made from mostly sand and recycled glass and requires no additional fire-retardant or treatments.
- EcoTouch® QUIETZONE® PINK® FIBERGLAS® Acoustic Insulation is classified as NON-COMBUSTIBLE in compliance to the Canadian Standard CAN ULC S114.

ACOUSTICAL PERFORMANCE

- Fiberglass and rockwool are two of the most commonly used cavity insulations for acoustic control in walls and floors. Both materials are tested for acoustic performance and both meet or exceed building code requirements for partitions depending on the assembly. Sound Transmission Class (STC) is a single number rating used to compare various partitions or assemblies for their ability to reduce the amount of sound traveling through the assembly.
- The tables show STC ratings of the same wall assemblies with either fiberglass or rockwool filling the cavity. The information is from a study, "Sound Transmission Through Gypsum Walls: Sound Transmission Results" Internal Report IR-693, performed at the National Research Council of Canada. This study was jointly funded by fiberglass, rockwool, cellulose and other building material manufacturers.
- Typically, glass fiber batts have equivalent or better STC acoustical performance than nominal equivalent thickness, and higher density, mineral fiber rockwool insulation.

EASE OF INSTALLATION

- Owens Corning insulation can easily be installed by any of the acceptable methods – friction fit, face staple or inset staple.
- It is easy to cut around electrical boxes and to be split around wiring and pipes.
- EcoTouch® QUIETZONE® PINK® FIBERGLAS® Acoustic Insulation is available in widths for steel and wood structures to provide friction fit to prevent settling.



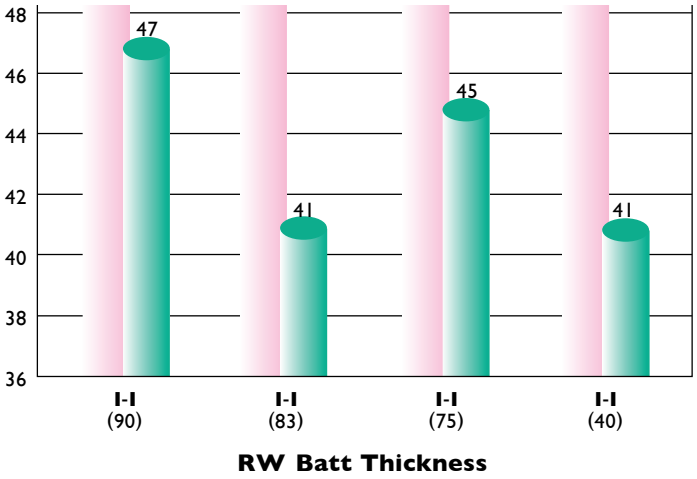
Fiberglass Batt Performance to Rockwool†

SUMMARY DATA:

All thickness combinations of Rockwool (RW) batts with 89 mm Fiberglass (FG) batts (with I-I single layer gypsum each side) gave lower STC assembly performance for RW batts. The greatest lowering (2 to 8 STC units) was for assemblies with a single layer of 5/8" type X gypsum board on each side of the steel stud assembly. Be sure to specify full thickness **FG, QUIETZONE® Acoustical Batt Insulation**.

(I-I) single layers of type X gypsum
(FG) Fiberglass batts
(RW) Rockwool batts

FG 89 mm
RW (mm)

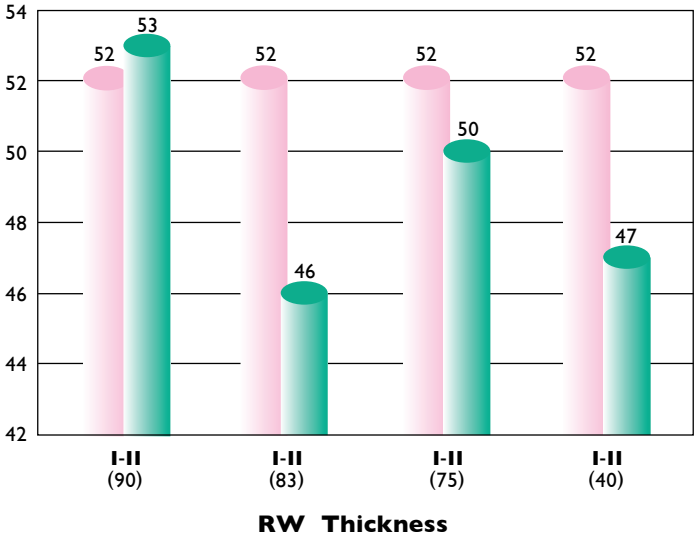


SUMMARY DATA:

All thickness combinations of Rockwool batts gave lower STC assembly performances than 89 mm Fiberglass batts with only one exception. This chart investigates assemblies with I-II (two layers one side, one the other) of 5/8" type X gypsum board. The greatest lowering (2-8 STC) was for assemblies with a single layer of 5/8" type X gypsum board on each side of the steel stud assembly. Be sure to specify full thickness **FG, QUIETZONE® Acoustical Batt Insulation**.

(I-II) two layers of type X gypsum
(FG) Fiberglass batts
(RW) Rockwool batts

FG 89 mm
RW (mm)



† Results shown based on NRC Report. NRC Research compared various wall assemblies with Rockwool batts and glass fibre batts in the cavity with one layer of 5/8" Type X gypsum board on one side and two layers on the opposite side. National Research Council of Canada, *Summary Report, for Consortium on Gypsum Walls: Sound Transmission Results*, Internal Report IRC-IR-693.

To achieve optimal results Owens Corning recommends installing EcoTouch® QuietZone® PINK® FIBERGLAS® Acoustic Insulation.

Acoustical Performance of Wall Assemblies with EcoTouch® QUIETZONE® PINK® FIBERGLAS® Acoustic Insulation‡

STEEL STUD FRAMING (2-1/2")

Interior Finishes[2]	25 Gauge Steel Stud Spacing	Resilient Channels	Cavity Insulation EcoTouch® QUIETZONE®	STC Value (NLB)	Assembly ID CNRC Report IRC-IR-693[9] or NBC 1995[6]	Fire Rating (LB[7] or NLB[8])	References NBC[6] or ULC[1a]
(1-1) 5/8" Type X Gyp	16" o.c. or 24" o.c.	None	None	35	TL-93-057[9]/ TL-93-032[9]	1 h NLB	ULC W407[1a]
(1-1) 5/8" Type X Gyp	16" o.c. or 24" o.c.	None	2-1/2"	39/44	TL-93-058[9]/ TL-93-033[9]	1 h NLB	ULC W409[1a]
(1-2) 5/8" Type X or C Gyp	24" o.c.	None	2-1/2"	51	TL-93-036[9]	1 h NLB	ULC W409[1a] or W484[1a]
(2-2) 5/8" Type X Gyp	16" o.c.	None	2-1/2"	51	NBC No. S3b[9]	2 h NLB	NBC No. S3b[6] or W453[3]
(2-2) 5/8" Type X Gyp	24" o.c.	None	2-1/2"	54	NBC No. S3a[9]	2 h NLB	NBC No. S3a[6] or W453[3]

STEEL STUD FRAMING (3-5/8" OR 6" FILLED CAVITIES) – FIRE RATED ASSEMBLIES

Interior Finishes[2]	25 Gauge Steel Stud Spacing	Resilient Channels	Cavity Insulation EcoTouch® QUIETZONE®	STC Value (NLB)	Assembly ID CNRC Report IRC-IR-693[9]	Fire Rating (LB[7] or NLB[8])	References NBC[6], ULC[1a] or UL[1b]
(1-1) 5/8" Type X Gyp	16" or 24" o.c.	None	None	38	TL-92-418[9]/ TL-92-376[9]	1 h NLB	W407[1a][3] or W453[3]
(1-1) 5/8" Type X Gyp	16" or 24" o.c.	None	3-5/8"	46/48	TL-93-344[9]/ TL-92-410[9]	45 min NLB or LB[0]	W413[1a] or UL-U423[1b][0]
(1-1) 5/8" Type X Gyp	16" o.c.	None	3-5/8"	49	TL-93-325[9]	1 h NLB	W407[1a][3] or W453[3]
(1-1) 5/8" Type X Gyp	24" o.c.	None	3-5/8"	50	TL-93-324[9]	1 h NLB or LB[0]	W407[1a][3], W415[1a][3], W453[3] or UL-U423[1b][0]
(1-1) 5/8" Type X Gyp	16" o.c.[4]	@ 24" o.c.	3-5/8"	50 (LB)	TL-93-354[9]	1 h LB[0]	UL-U423[1b][0]
(1-1) 5/8" Type X Gyp	16" or 24" o.c.	None	6"	51	NBC-S7a[6]/ TL-93-298[9]	1 h NLB	W453[3], W407[1a][3]/ W409[1a]
(1-2) 1/2" Type X Gyp	16" or 24" o.c.	None	3-5/8"	50/52	TL-92-426[9]/ TL-92-411[9]	1 h NLB	NBC-S5d[6]/NBC-S5C[6]
(1-2) 5/8" Type X Gyp	16" o.c.	None	3-5/8"	52	TL-92-420[9]	1 h NLB or LB[0]	BNC S5b[6], W453[3] or UL-U423[1b][0]
(1-2) 5/8" Type X Gyp	24" o.c.	None	3-5/8"	54	TL-92-368[9]	1 h NLB or LB[0]	NBC-S5a[6], W453[3] or UL-U423[1b][0]
(1-2) 1/2" Type X Gyp	16" o.c.[5]	@ 24" o.c.	3-5/8"	54 (LB)	TL-94-019[9]	1 h LB[0]	UL-U423[1b][0]
(2-2) 1/2" Type X Gyp	16" or 24" o.c.	None	3-5/8"	55	TL-92-424[9]/ TL-92-412[9]	2 h NLB	W453[3] or W414[1a][3]
(2-2) 5/8" Type X Gyp	16" or 24" o.c.	None	3-5/8"	56/58	TL-93-351[9]/ TL-92-369[9]	2 h NLB or LB[0]	NBC-S6b[6]/ S6ab[6], W453[3], UL-U423[1b][0] or W414[1a][3]

‡ Results shown based on tested assemblies by OCC and tested assemblies referenced in the National Building Code of Canada using generic insulation. To achieve optimal results Owens Corning recommends installing EcoTouch® QuietZone® PINK® FIBERGLAS® Acoustic Insulation.

Acoustic and Fire Performance Ratings and References with EcoTouch® QUIETZONE® PINK® FIBERGLAS® Acoustic Insulation

DOUBLE STEEL STUD WALL (2-1/2" AND 3-5/8") WITH 1" (25 MM) MINIMUM AIR SPACE IN BETWEEN 2 LAYERS

Interior Finishes[2]	Spacing for 2 Rows of Steel Studs	Resilient Channels	Cavity Insulation EcoTouch® QUIETZONE®	STC Value (NLB)	Fire Resistance	Reference Assembly No. NRC Report IRC-IR-761[10]
(1-1) 1/2" Type X Gyp	2-1/2" studs @ 24" o.c.	None	2-1/2" on each side	54		TL-93-303[10]
(1-1) 5/8" Type X Gyp	3-1/2" studs @ 24" o.c.	None	3-5/8" on each side	55	1 h per ULC W449 (LB) and 1 h per ULU U493 (NLB)	TL-93-300[10]
(1-2) 1/2" Type X Gyp	2-1/2" studs @ 24" o.c.	None	2-1/2" on each side	60		TL-93-304[10]
(1-2) 5/8" Type X Gyp	3-1/2" studs @ 24" o.c.	None	3-5/8" on each side	61	1 h per ULC W449 (LB) and 1 h per ULU U493 (NLB)	TL-93-301[10]
(2-2) 1/2" Type X Gyp	2-1/2" studs @ 24" o.c.	None	2-1/2" on each side	62		TL-93-305[10]
(2-2) 5/8" Type X Gyp	3-1/2" studs @ 24" o.c.	None	3-5/8" on each side	64	2 h per ULC W449 (LB) and 2 h per ULU U493 (NLB)	TL-93-302[10]

SINGLE WOOD STUDS (3-1/2")

Interior Finishes[2]	Spacing for 3-1/2" Wood Studs	Resilient Channels	Cavity Insulation EcoTouch® QUIETZONE®	STC Value (NLB)	Fire Rating (LB[7] or NLB[8])	References NBC[6]
(1-1) 1/2" Type X Gyp	16" or 24" o.c.	None	3-1/2"	34	3/4 h LB or NLB	NBC No.W1b[6]
(1-1) 5/8" Type X Gyp	16" or 24" o.c.	None	3-1/2"	36	1 h LB or NLB	NBC No.W1a[6]
(1-2) 5/8" Type X Gyp	16" o.c.	@ 16" or 24" o.c.	3-1/2"	51	3/4 h LB 1 h NLB	NBC No.W5a[6]
(1-2) 5/8" Type X Gyp	24" o.c.	@ 16" or 24" o.c.	3-1/2"	54	3/4 h LB 1 h NLB	NBC No.W5b[6]
(2-2) 5/8" Type X Gyp	16" or 24" o.c.	None	3-1/2"	38	1.5 h LB 2 h NLB	NBC No.W2a[6]
(2-2) 5/8" Type X Gyp	16" or 24" o.c.	@ 16" o.c.	3-1/2"	55	1.5 h LB 2 h NLB	NBC No.W6a[6]
(2-2) 5/8" Type X Gyp	16" or 24" o.c.	@ 16" o.c.	3-1/2"	58	1.5 h LB 2 h NLB	NBC No.W6b[6]

ECOTOUCH® QUIETZONE® ACOUSTIC BATT COVERAGE TABLE

Framing Type and Stud Spacing	Width in. (mm)	Length in. (mm)	Thickness in. (mm)	Coverage per Package ft² (m²)
Wood Stud Framing				
16" (406 mm) o.c.	15 (381)	48 (1219)	1-1/2" (38)	190 (17.65)
16" (406 mm) o.c.	15 (381)	48 (1219)	3-1/2" (89)	110 (10.22)
24" (610 mm) o.c.	23 (584)	48 (1219)	3-1/2" (89)	168.6 (15.66)
16" (406 mm) o.c.	15 (381)	48 (1219)	6" (152)	80 (7.43)
Steel Stud Framing				
16" (406 mm) o.c.	16 (406)	48 (1219)	1-5/8" (41)	202.5 (18.81)
16" (406 mm) o.c.	16 (406)	48 (1219)	2-1/2" (64)	170.4 (15.84)
16" (406 mm) o.c.	16 (406)	48 (1219)	3-5/8" (92)	128.0 (11.89)
16" (406 mm) o.c.	15 (381)	48 (1219)	6" (152)	80 (7.43)
24" (610 mm) o.c.	24 (610)	48 (1219)	1-5/8" (41)	304.0 (28.25)
24" (610 mm) o.c.	24 (610)	48 (1219)	2-1/2" (64)	256 (23.79)
24" (610 mm) o.c.	24 (610)	48 (1219)	3-5/8" (92)	192 (17.84)
24" (610 mm) o.c.	24 1/4 (616)	48 (1219)	6" (152)	129.3 (12.01)

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For technical inquiries call 1-800-504-8294 or your local technical sales representative.
Consult our website at www.owenscorning.ca for additional information.

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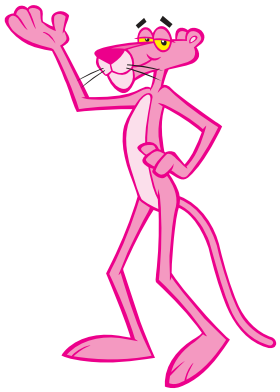

PINK® FIBERGLAS® Insulation

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