Product comparison: Thermal Batt Insulation

EcoTouch® PINK® Fiberglas® Thermal Batt Insulation or Thermafiber® Ultrabatt™ Insulation

STANDARD	Comfortbatt® Rockwool™	Ultrabatt™ Thermafiber®	EcoTouch® PINK® Fiberglas® Thermal Batt Insulation
CAN/ULC-S702 (mineral fiber insulation standard)	Type 1	Type 1	Type 1
CCMC Evaluation Number	No. 12018-L	No. 14059-L	No. 05650-L
CAN/ULC-S114 (combustibility standard)	Non-combustible	Non-combustible	Non-combustible
CAN/ULC-S102 (surface burning characteristic standard)	Flames spread & smoke developed = 0	Flames spread & smoke developed = 0	Flames spread & smoke developed = 0
ASTM C1338 (resistance to fungi)	✓	✓	✓
Recycled content	40% (Milton, On) 16% (Grand Forks, BC)	Min. 70%	Min. 73%
GreenGuard Certification Gold*	✓	X	✓
Formaldehyde-free	X	X	✓
UL Environmental Product Declaration#	Industry wide generic document	Product – specific type 3	Product – specific type 3
Material Health Certificate (Issued by Cradle to Cradle Products Innovation Institute – C2CPII)^	X	Bronze	Gold
Declare Label†	X	X	LPC Compliant

Rockwool™ Comfortbatt® data obtained from Product data sheet: issued 01-01-18, supersedes 08-23-17
CCMC Listing: https://ccmc.nrc-cnrc.gc.ca/evaluations/12018_e.pdf
GreenGuard Certification: https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32076/687532/Rockwool-ComfortBatt?st=1&sl=56941440&crit=a2V5d29yZDpbcm9ja3dvb2xd&ss=2&k=rockwool&t=rockwool

Product comparison: Acoustic/Fire Insulation

EcoTouch® QuietZone® PINK® Fiberglas® Insulation or Thermafiber® Fire & Sound Guard™

STANDARD	Safe'n'Sound® Rockwool™	Fire & Sound Guard™ Thermafiber®	EcoTouch® QuietZone® PINK® Fiberglas® Acoustic Insulation
CAN/ULC-S702 (mineral fiber insulation standard)	Type 1	Type 1	Type 1
CCMC Evaluation Number	X	No. 14059-L	No. 05650-L
ASTM C665 (mineral fiber insulation standard)	Type 1	Type 1	Type 1
UL/ULC Design approved	✓	X	✓
CAN/ULC-S114 (combustibility standard)	Non-combustible	Non-combustible	Non-combustible
CAN/ULC-S102 (surface burning characteristic standard)	Flames spread & smoke developed = 0	Flames spread & smoke developed = 0	Flames spread & smoke developed = 0
Recycled content	40% (Milton, On) 16% (Grand Forks, BC)	Min. 70%	Min. 73%
Accepted insulation National Building Code of Canada acoustic or fire rated assembly	✓	✓	✓
National Research Council report IRC-IR-693	Summary: density does not influence STC rating. Define acoustical insulation as "sound absorptive material". Includes fibers processed from glass, rock, slag, and cellulose.		
ASTM C1338 (resistance to fungi)	✓	✓	✓
GreenGuard Certification*	✓	x	✓
UL Environment Product Declaration#	Industry wide generic document	Product – specific type 3	Product – specific type 3
Formaldehyde-free	X	X	✓
Material Health Certificate (Issued by Cradle to Cradle Products Innovation Institute – C2CPII)^	X	Bronze	Gold
Declare Label†	X	X	LPC Compliant

System Testing

SYSTEM DESCRIPTION		Safe'n'Sound® Rockwool™	Fire & Sound Guard™ Thermafiber®	EcoTouch® QuietZone® PINK® Fiberglas® Acoustic Insulation
5/8" gypsum boards (type x) 2x4" wood studs spaced 16" OC Acoustic Batt Insulation - Wood Stud Resilient Channels space 16" OC	Sound Transmission Class (STC)	45	45	45
	Fire Resistance	1 hour (non-loadbearing) 45 mins (loadbearing)	1 hour (non-loadbearing) 45 mins (loadbearing)	1 hour (non-loadbearing) 45 mins (loadbearing)
2x10" Wood Joists spaced 16" OC 2 layers Acoustic Batt Insulation - Wood Stud Resilient Channels spaced 24" OC 5/8" gypsum boards (type x)	Sound Transmission Class (STC)	50	50	50
	Fire Resistance	30 mins	30 mins	30 mins
5/8" gypsum boards (type x) 6" Steel Studs spaced 16" OC 6" Acoustic Batt Insulation (2 layers)	Sound Transmission Class (STC)	51	51	51
	Fire Resistance	1 hour (non-load bearing)	1 hour (non-load bearing)	45 mins (non-load bearing)

System Description #1: National Building Code of Canada (NBCC) 2015 Assembly W3a.
System Description #2: NBCC 2015 Assembly F8d.
System Description #3: NBCC 2015 Assembly S7a.

*GREENGUARD Certification ensures that a product has met some of the world's most rigorous and comprehensive standards for low emissions of volatile organic compounds (VOCs) into indoor air. The GREENGUARD Gold standard includes health-based criteria for additional chemicals and also requires lower total VOC emissions levels to ensure that products are acceptable for use in environments such as schools and healthcare facilities. GREENGUARD Gold Certified products must also comply with requirements of the State of California's Department of Public Health "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1 (2010)" (also known as California Section 01350).

*An EPD is the disclosure of a product's environmental impacts throughout its life cycle. Owens Corning issued the first North American EPD for fiberglass insulation in November 2012 followed by the first North American extruded polystyrene (XPS) foam insulation EPD in November 2013. EPD's of all core building products were certified and issued by UL Environment by the end of 2015.

^Owens Corning embarked on Material Health Certifications (MHC), the first in the industry, to aid architects and designers in choosing products that are safe for human and environmental health.

†The International Living Future Institutes Declare program, the nutrition label for building products, is often compared to nutritional labels on packaged foods. Declare 'nutrition-label' for products provides a clear, and informative method for manufacturer to disclose ingredients of their products. Additionally, declare product database helps the designers, and specifiers to make more informative choice when it comes to product selection.

Living Product Challenge (LPC) is a unified tool to bring together complex multi attribute data for a responsible material creation and selection. The products are Imperative Certified under the Living Product Challenge 1.0 Pilot in the following Performance Areas: Place, Health + Happiness, Materials, Equity, Beauty, Water and Energy