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1-888-269-6977

Weathershield™ Insulation vs Glass Fibre Insulation Comparison Chart



General	Weathershield™ Insulation	Glass Fibre Insulation
Physical make-up Fibre structure Appearance	100% Recycled cellulose fibres + fire retardants Hollow Grey fibrous mass (loose-fill)	Spun glass fibres (some recycle content) Solid Pink, yellow or white (loose-fill or batts)

Typical Performance Comparison	Weathershield™ Insulation	Glass Fibre Insulation
Canadian National Standard	CAN/ULC-S703	CAN/ULC-S702
Thermal Resistance (R-Value)	Attic R-3.7 / inch thickness Wall R-3.8 / inch thickness	Attic R-2.7 / inch thickness (blown in batt) Wall R-3.2 / inch thickness (blown in batt)
Thickness needed for R-40 (attic)	10.8"	16" or more
Installation Density	Attic ~ 3.0 lbs. / cubic foot Wall ~ 3.0 lbs. / cubic foot	Attic 1/3 less than cellulose Wall 1/3 less than cellulose
Resistance to Air Infiltration (Air leakage)	High (Higher resistance in attics & walls)	Low (Lower resistance in attics & walls)
Susceptibility to Internal Air Movement (convection)	Very Low (stable R-value)	Very High (unstable R-value)
Resistance to "Wind Washing" (in attics)	High (due to higher density)	Low (due to lower density)
Fire Resistance	Significant (Will char and smoulder)	Moderate / Low (Will not burn but will melt easily)
Acoustical Value	High (due to higher density)	Low (due to lower density)



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Relative Toxicity (No significant adverse health threats)	Low / non-irritating (Substantial health threats associated)	Moderate / irritating
Embodied Energy to Manufacture	Low	8-10 times higher than cellulose
Thermal Performance in Extreme Cold (-40°C)	R-value remains stable (actually increases)	Poor (significant loss of R-value)
Thermal Performance in Extreme Heat (+40°C)	R-value remains stable	Poor (significant loss of R-value)
Moisture Resistance (High Humidity)	Good (dissipation / back-wicking)	Moderate (due to air permeability)
Mould/Fungi Resistance	Good (will not support growth)	Poor (can support growth)
Insect/Vermin Resistance	Good (fire retardants are also deterrents)	Poor (no deterrent)
Ease of Installation	Attic Relatively easy but large jobs can be tricky for DIY (DIY machines available) Wall Can be DIY but best left to professionals	Relatively easy but can be tricky for DIY (DIY machines available for loose-fill) Batts tricky to install properly can be DIY but best left to professionals (Difficult to install batts properly)



Results & sources of information from various independent studies.
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