



<b>How it works</b>	Traps air inside tiny glass fibres, slowing transfer of heat.	There are 2 Types of Spray Foam insulation, Open and Closed Cell. Open Cell is mainly used as an air barrier but closed cell is an Air, Moisture and Vapour barrier.
<b>Cost</b>	Around \$0.40 per square foot	Around \$1.50 Per Board Foot for Closed Cell. 1 Board Foot is a 1ft by 1 ft square at 1 inch of thickness
<b>Air leakage</b>	Yes	No with Closed Cell. Yes with Open Cell though minimal
<b>Installation</b>	Sheets placed in wall	Sprayed by a professional
<b>Energy efficiency</b>	Less efficient	Substantially More efficient
<b>Flammability</b>	Potentially, due to old kraft paper on batts.	Yes – need a barrier with fire rating, like drywall. However, most Closed Cell Spray Foams come with a fire retardant.
<b>Extreme cold</b>	Loses heat quickly	No difference in performance
<b>R-value</b>	2.2 per inch non aged R-value. Fibreglass losses R-value over its lifetime	Open Cell - 3.5 per inch of aged R-value. Closed Cell - 6 to 7 per inch of aged R-value. Spray Foam does not lose R-value over its lifetime
<b>Lifetime</b>	10-25yrs if the fibreglass stays dry	+80yrs
<b>Benefits</b>	Low cost insulation	-Stops air and moisture infiltration - Adds strength to the building structure - It is permanent and will not sag - Keeps dust and pollen out - Reduces capacity requirements, maintenance and wear of HVAC equipment
<b>Sound Barrier Efficiency</b>	Low	High

**Added** None  
**Structural**  
**Integrity**

Yes. Closed Cell adds up to 250% Racking strength to your walls and [roof](#)