



**Ellis Passivhaus** | 5485 South Ellis Ave, Chicago, IL 60615 |  
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## PM 2.5 – The Killer That Can't Be Seen



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*We spend 90% of our lives indoors.*

*\*\* Indoor air quality is 5 – 10 x worse than outdoor air quality.*

*\*\* PM 2.5 can't be seen and results primarily from combustion.*

*\*\* Chicagoans spend 90% of their time indoors where air quality is > 5x worse than outdoor air quality.*

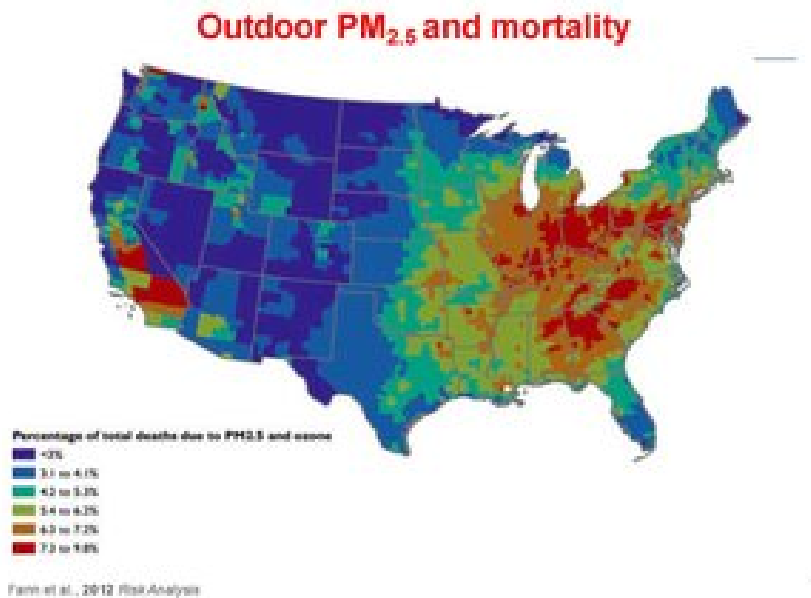
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Among major US cities, Chicago, with others, rank in the highest category of PM 2.5 concentration according to the EPA. PM 2.5 (“particulate matter 2.5 microns”) has been linked to morbidity and cannot be seen by the naked eye. PM 2.5 primarily results from combustion.



Every **Passivhaus Institut Certified Building** requires a whole-house ERV to provide “continuous balanced mechanical ventilation with energy recovery.”

**Ellis Passivhaus** uses a Zehnder ERV that removes 90% of particulate matter greater than 1.0 microns and 75% that is < 1.0 microns. It runs 24/7 at 84% efficiency and uses < 2 kWh per day of electricity.