Building a PassivHaus + house

Stuart Lee
Craftsmen Quality Builders

What is a PassivHaus?

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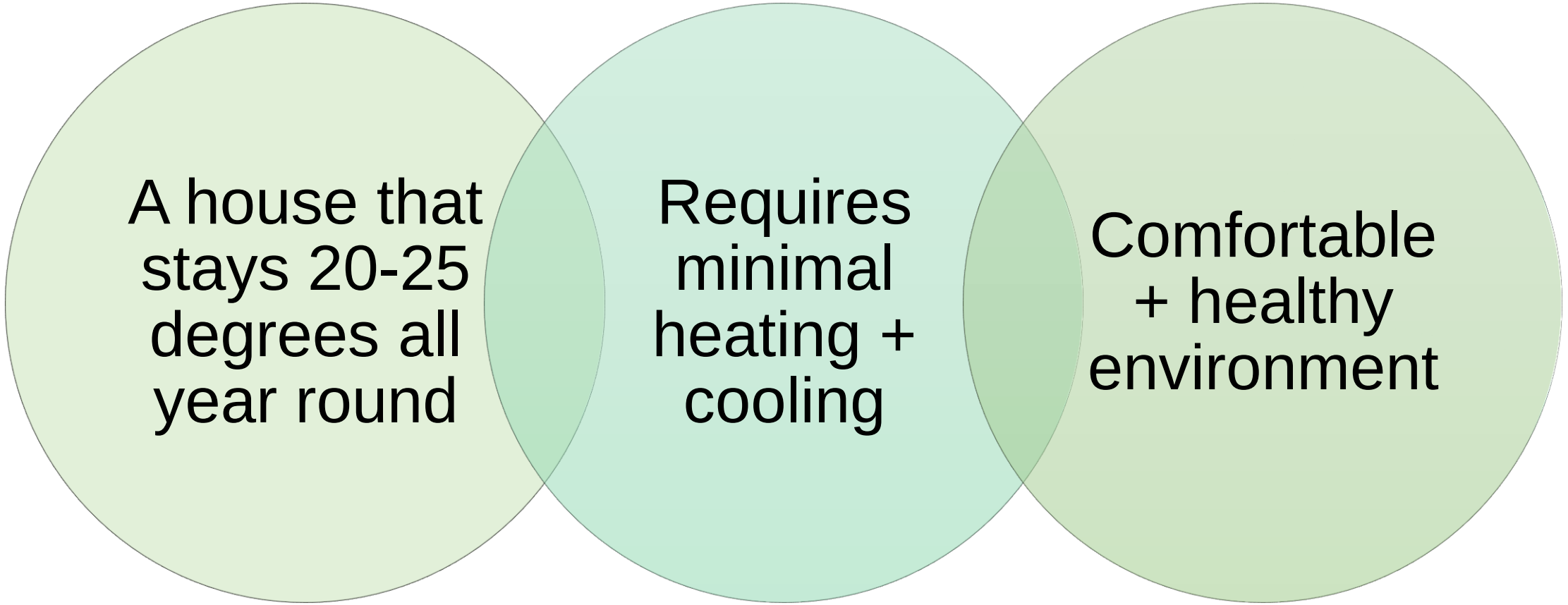


90% Energy Savings

LOW ENERGY BILLS

Passive Houses allow for energy savings of up to 90% compared with typical existing buildings and over 75% compared with average new best-practice constructions.

ADDS VALUE

Adds value to your home for the future as the materials are designed to last for 60 years being the life of your home.

REDUCED CO_2 EMISSIONS

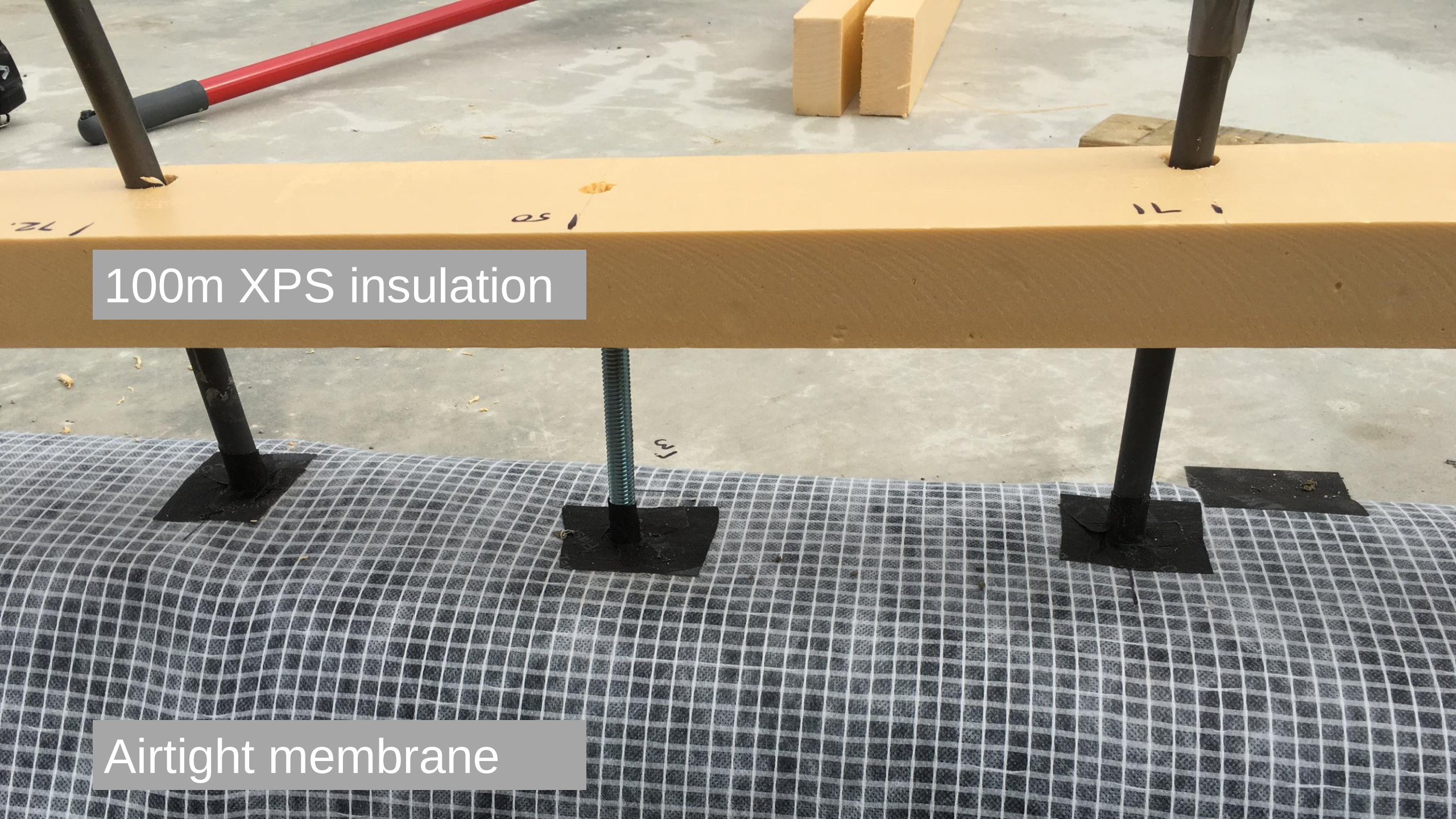
Achieved through minimal heating and cooling. For example the house only requires 3 kilograms of wood per square metre to maintain the temperature of 20 – 25 degrees during winter.

HEALTH BENEFITS

Improved air quality, clean, fresh, warm, filtered air, condensation control and no dust mites.

COMFORTABLE WITH INCREASED INSULATION

Passive Houses use energy sources inside the building such as the body heat from the residents or solar heat entering the building. They are often praised for their high level of comfort.


100m XPS insulation
Airtight membrane

The thermal envelope

Continuous + taped airtight membrane

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Blower door testing =
0.38 ACH

PassivHaus standard =
0.6 ACH

Continuous insulation layer

Floor insulation

HRV duct

HRV unit

73

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Stuart Lee
Craftsmen Quality Builders
0402 318 224
www.craftsmenbuilders.com.au

BUILDING COMMISSION VICTORIA
REGISTERED
Building Practitioner

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PASSIVE HOUSE
TRADESPERSON
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