



Inside a healthier future ...





Saving Energy

An energy efficient home reduces your running costs and carbon footprint.



Health

If your home is warm and drier all year round it has a positive effect on your health as it provides the optimum protection against mould and mildew.



Comfort

With indoor air temperatures between 18 - 21 degrees Celsius and relative humidity between 40 % - 60 % all year round you feel more comfortable in your home.



Investment protection

A well designed and built home, allowing for maximum drying capacity, offers the best protection against leaky building syndrome.

... the basic needs of a 21st century human being



INTELLO®



TESCON® PROFIL



KAFLEX



TESCON Vana



ROFLEX



ORCON® CLASSIC



TESCON® NAJDECK



TESCON EXTORA® PROFIL



SOLITEX MENTO®



KAFLEX



SOLITEX EXTASANA®



TESCON EXTOSEAL®



ROFLEX



TESCON EXTORA®



ORCON® CLASSIC

DETAIL + PRODUCT = PERFORMANCE

Typical New Zealand house

21st century New Zealand house

Airtightness

A typical modern New Zealand house built to NZBC standard has between 5 – 7 air changes per hour (ACH) when tested with a Blower Door. This means that the entire inner volume of the building is exchanged with outside air 5 – 7 times per hour.

Weathertightness

Roof and wall underlays are not combining high levels of wind- and watertightness with high diffusion permeability.

Insulation

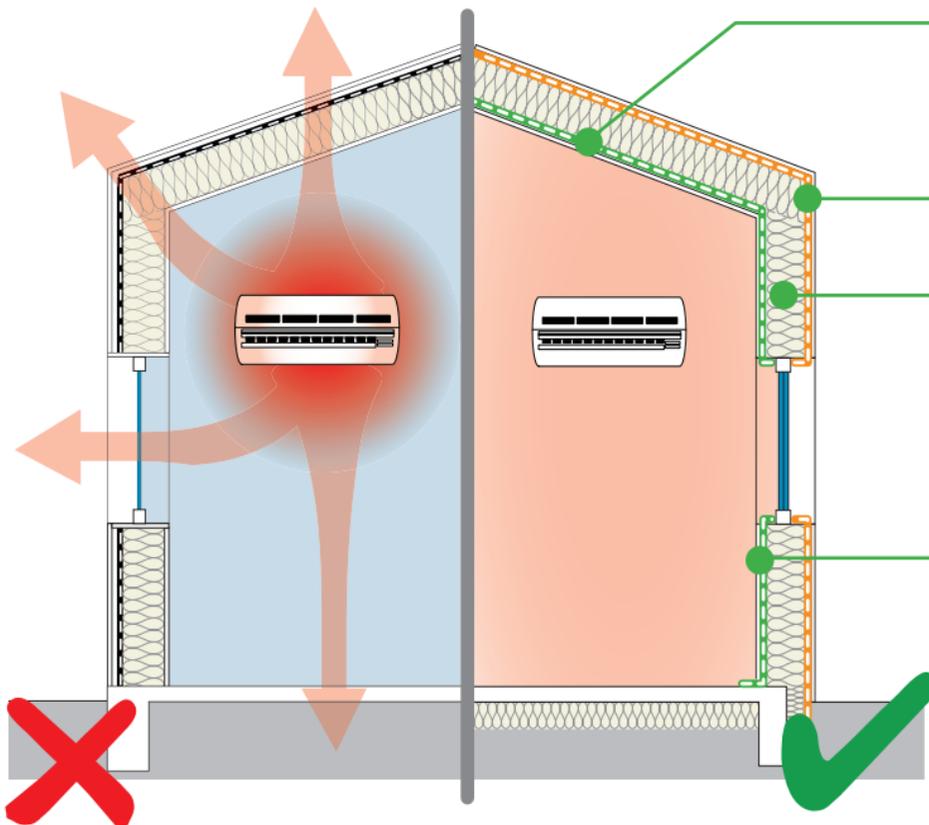
The principle of insulation is still air between the insulation fibres. Due to the high air leakage the insulation cannot perform to its measured R-value.

Moisture control

A typical New Zealand house has no internal moisture control layer.

Heating

A typical New Zealand house requires multiple heating and cooling appliances with significant running costs due to the high air leakage through the construction.



Airtightness

A 21st century New Zealand house using pro clima products can achieve a Passive House standard of less than 0.6 air changes per hour (ACH).

Weathertightness

The high performance pro clima roof and wall underlays provide optimum weathertightness protection from the outside whilst allowing for drying capacity of the construction from the inside.

Insulation

The pro clima airtightness layer prevents air leakage and therefore the insulation can perform to its maximum R-value.

Moisture control

A 21st century house includes a humidity-variable moisture control layer preventing internally driven moisture entering the construction in winter but allowing for back diffusion in summer.

Heating

A 21st century New Zealand house requires less heating and cooling appliances, is more energy efficient and keeps your house warm in winter and cool in summer.

... requirements of a 21st century house

AIRTIGHTNESS

- ✓ prevents the uncontrolled air and moisture movement through the building envelope
- ✓ eliminates contamination of the indoor air

WINDTIGHTNESS

- ✓ stops air movement from the outside into the insulation layer
- ✓ prevents water being transported into the construction through convection

WEATHERTIGHTNESS

- ✓ prevents water from entering the construction from the outside (watertightness)
- ✓ allows moisture to pass through freely from the inside to the outside (diffusion open)

➔ If you miss one of these three key facts when designing a house the result could be:



- ✗ Condensation within the construction
- ✗ Mould and mildew
- ✗ Health issues for the occupants



... important facts to consider when designing a house



... and the insulation
is perfect

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