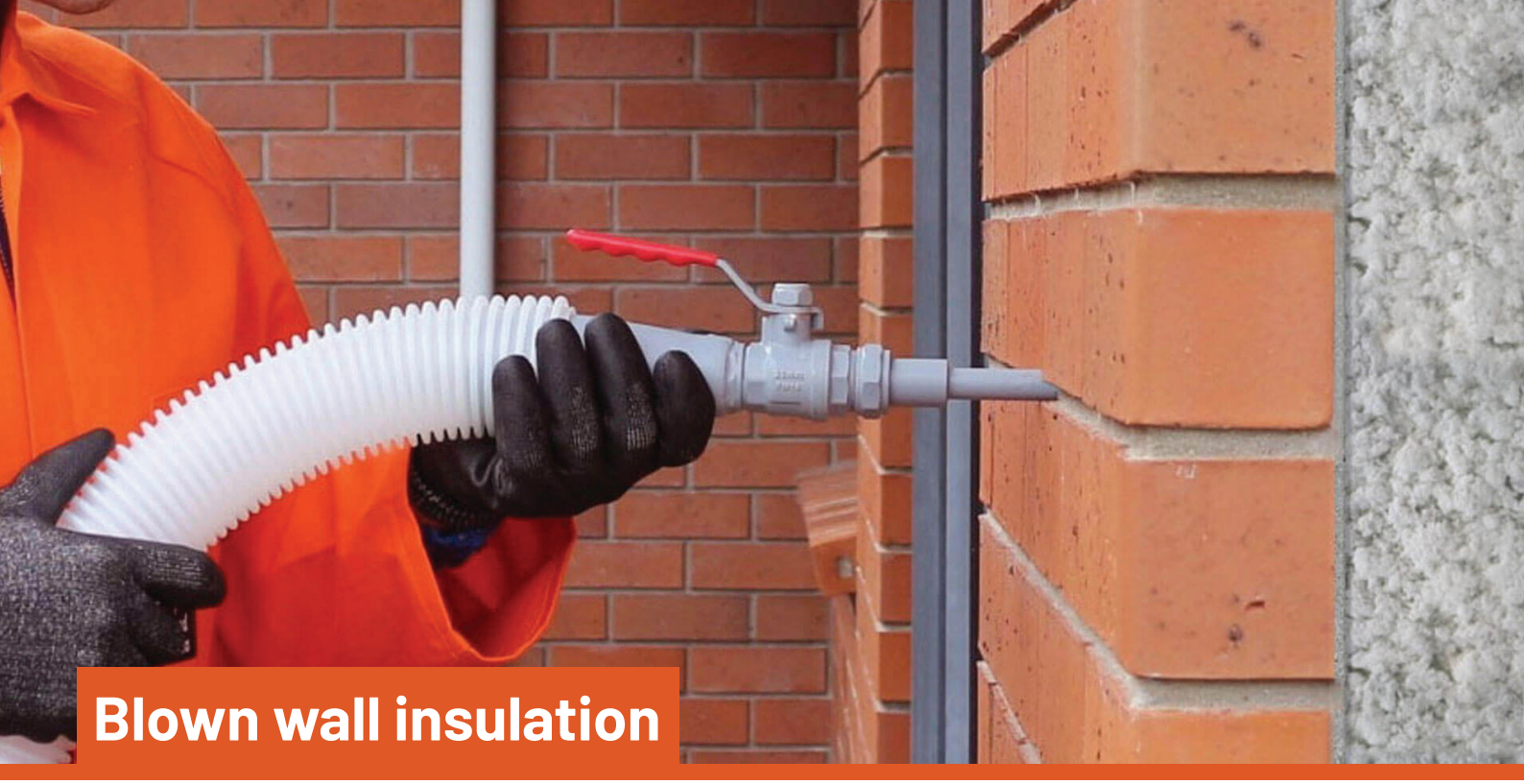
CosyWall®

Live comfortably all year round.

BLOWN WALL INSULATION

www.wallinsulation.co.nz



Blown wall insulation

The perfect solution for your walls

CosyWall Insulation is an external wall insulation system designed to insulate the walls of older homes. It provides thermal and acoustical insulation to existing wall cavities and is installed without the cost and hassle of removing the internal linings.

We are the leading experts in retrofitting dry fiber wall insulation in New Zealand. Over the last 18 years, we've continually worked to develop and improve our systems and processes and have worked to develop cutting edge technology which improves the efficiency and delivery of our service.

The benefits of having CosyWall insulation installed is that it completes the thermal envelope, making your house warmer, drier and a much nicer place to live.

- Creates a healthier and safer home environment.
- High performance wall insulation for NZ
- Codemark certified with 50 year guarantee.
- Save on your monthly electricity bill.

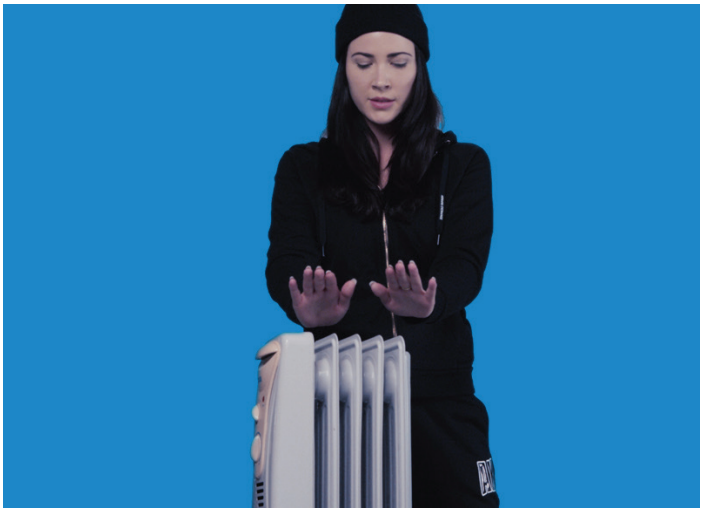
"We couldn't believe the difference CosyWall Insulation made to our home.

Why Insulate?

The perfect solution for your walls

With colder weather just around the corner, it's time to start thinking about how to keep your homes warm and cosy. One of the biggest factors that help reduce cold air entering your home and keeping the heat in is insulation.

While many homes have ceiling and underfloor insulation, we find wall insulation has generally not been installed or overlooked. This means that for most older NZ homes, heat escapes through the walls making the home difficult to heat, and often leading to other health issues.



Signs of an uninsulated house

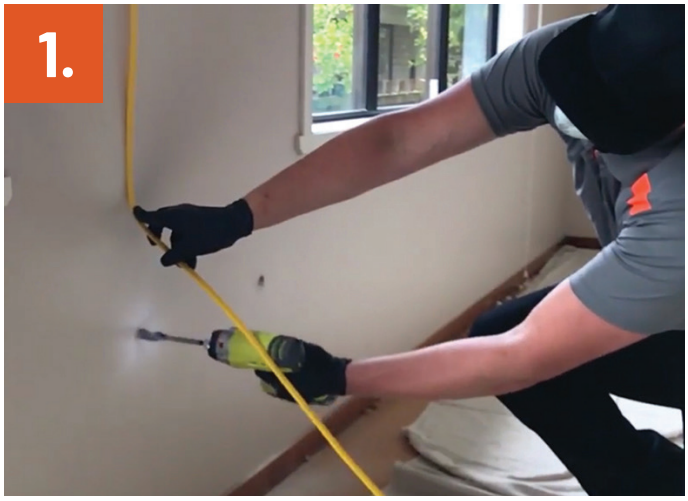
Living in an uninsulated house can be a horrible experience and can lead to health issues for your family and damage to your home. Typically if there are areas that are missed with insulation, whether it's the ceiling, underfloor or walls, you'll see a presence of some form of mould or condensation building up. It becomes quite obvious in bathrooms, behind furniture in your living room and in the back of wardrobes.

Why Choose CosyWall Insulation?

CosyWall Insulation has been installed in New Zealand homes since 2002. We are the leading experts in retrofitting dry fiber wall insulation in New Zealand.

Over the last 18 years, we've continually worked to develop and improve our systems and processes and have worked to develop cutting edge technology which improves the efficiency and delivery of our service. We've proven time and time again that having CosyWall Insulation installed will create a beautiful warm living environment and a much healthier home for your family.

The installation process



STEP 1

Preparing the walls

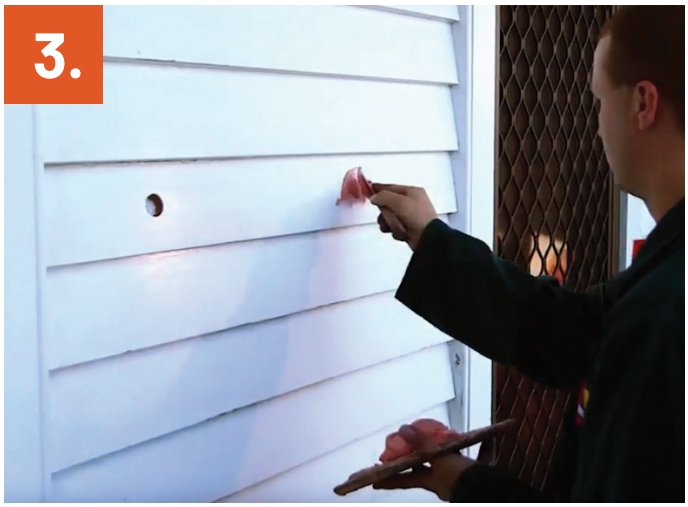
Insulation is blown into your home through small holes drilled into your wall cavity. In order to prepare your walls for insulation, we go around the interior or exterior of your house and create access points to install the insulation.

STEP 2

Filling the walls

Using specialised equipment, we then blow CosyWall Insulation into the walls of your house.

CosyWall is blown in at such a high density that it's never going to shrink or slump inside your walls.The product is not going to deteriorate over time, and once it's in your walls, it's there to stay. It will continue performing day in, day out and will never cost you a cent to run.

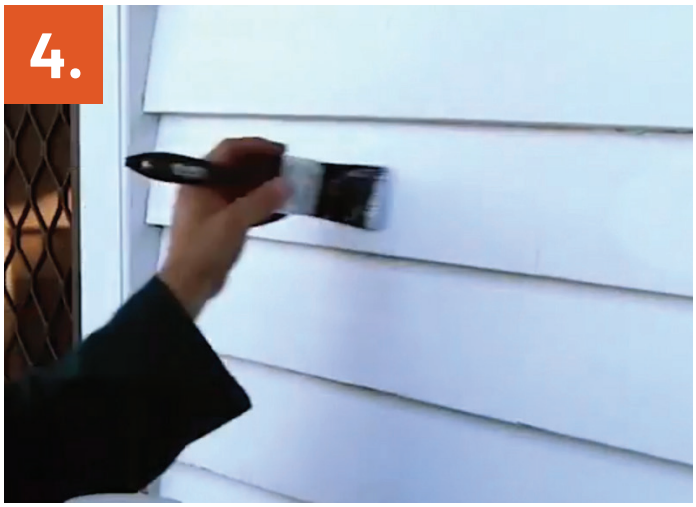


STEP 3

Weathertightness

Once CosyWall has been blown into your walls, we will go around and seal all the holes with a special compound that ensures your house will remain weathertight.

Ensuring your home remains weathertight once we finish is one of the key factors to ensure we comply with Government regulations. You can rest assured that we take our responsibilities here seriously.



STEP 4

Finishing Touches

The final step in our installation process is to ensure that we leave your home the way we found it. We'll make sure we repaint or touch up any areas of the home to ensure that when we leave the property, the only evidence you'll have that we were ever there is the warm and comfortable environment you'll now be able to enjoy.

A few things you may not know...

If you're insulating your house for the first time you've probably got a few questions about the process. Have a read below at the answers to some of our customers most asked questions.

Does CosyWall Insulation present any risks to my family?

CosyWall Insulation is a completely safe dry fiber product. It's also been awarded the Eurofins Gold Certificate for Indoor Air Quality in Europe. Having CosyWall installed will not add any moisture to your walls, there is no curing period, no formaldehyde, and it will never shrink or slump over time.

It is also made from a non-combustible material so there is no risk to it catching fire. In fact in the unfortunate event you do experience a fire, CosyWall Insulation will actually help to inhibit the spread of it throughout the home.

There are no adverse health effects of the product and it has a 50-year durability rating. Once it's in the building, it's in there to perform for the life of the building.

Will CosyWall shrink or slump over time?

The great thing about CosyWall Insulation is that we install it to such a high density that it's never going to slump or shrink inside your walls.

CosyWall is based on European technology and is proven overseas as well as in New Zealand. The product is not going to deteriorate over time, and once it's in your walls, it's there to stay. It will continue performing day in, day out and will never cost you a cent to run. The result is a much warmer, healthier home that you'll love to live in!

Talk to the team today about having CosyWall Insulation installed into your home.

Does the hole size matter when installing blown insulation?

At CosyWall, we often get questions about the size of the hole we blow through. We've been blowing insulation into New Zealand homes for more than 18 years, and over this time we've tried different hole sizes from large to very small to test the difference in installation quality and performance.

What we've found is that there is an optimum whole size that enables us to do the job properly, and we choose that hole size based on your specific house. If you'd like to know more, please contact the team at CosyWall and we'd be happy to chat!

Can you install CosyWall Insulation into a brick home?

One of the questions we get asked on a regular basis is if we can install CosyWall Insulation into a brick home. Yes, we can install CosyWall into a brick house, and CosyWall is CodeMark certified to be installed into brick houses.

The product is a specialised German engineered product that's been designed to be installed into the double brick cavity homes in Europe. CosyWall is designed to go against wet or damp surfaces and includes a water-repellant with specially designed fibers making it ideal for New Zealand brick homes.

Technical Information

Thermal Effectiveness

(NZBC H1, AS/NZS4859.1:2002)

CosyWall™ fills all except the narrowest wall cavities (e.g. frame corners), without joins, gaps or edge crushing common with batting installation. The high-density dry-fill process eliminates settlement and curing shrinkage away from framing timber, which is common with liquid foam materials. Total thermal effectiveness is guaranteed with installation of design thickness and weight. When CosyWall™ is added to a wall, compliance with NZ Building Code (NZBC) clauses H1.3.1(a) and H1.3.2 is achieved via H1/AS1, clauses 2.1, 2.2 and 2.3.

The minimum Total R-values R1.9 / R2.0 (depending on zone) stipulated in Tables 2 of NZS4218 and NZS 4243, are exceeded respectively with all wall cavities >75mm. Alternatively, licensed installers can complete a design on an individual building in accordance with NZS4218 calculation method, using the table figures.

Applications

CosyWall™ is designed to provide effective thermal insulation for external timber framed wall cavities constructed before 1990, with suitably fixed internal linings and external weatherboard, fibre cement, plywood, stucco or brick claddings. It is unsuitable for wall cavities with poorly fixed linings.

Building Code Compliance

This designated "Design", "Construction" or "Construction without Building Consent" statement covers the use of CosyWall™ insulation material to meet or exceed NZ Building Code sections B1, B2, C3, E2, F2, H1 requirements when used in buildings at any geographical location in accordance with this document AND alteration to specific buildings via installation of the total CosyWall™ insulation system do not alter NZBC existing building compliance relating to clauses B1, C2, E2, G9, H1. Compliance with these clauses is via a mix of acceptable and alternative solutions, as detailed below, with evidence supporting the claims available as Appendix 1 (A1), if required.

A building risk assessment is undertaken for each site prior to consent application. CosyWall™ should be BCA consent exempted on low risk buildings/sites. BCA or self-certification consent is required on higher risk work, and extreme risk buildings are excluded. Upon work completion licensed installers must provide site records to the BCA and state the installed thickness and bags used (weight) on a card fixed inside the power box.

Thermal Resistance Table

Table One - CosyWall Cavity Walls

Material R-value of:	Installed R-value of:	Min thickness (mm)
2.8	2.2 (1)	90
2.9	2.6 (2)	105
3.9	3.3 (3)	138

(1) Weatherboard >1950 with nogs. Deduct R0.2 if sheet cladding.

(2) Weatherboard <1950 510c/c, no horizontal nogs

(3) Brick with combined 140mm cavity, no building paper

Total R-values assume 18% thermal bridging as per H1/AS1 & may alter in walls with more or less framing timber.

Installation

Can only be undertaken by licensed installers, following the pre-assessment, insulation installation and cladding/lining reinstatement procedures detailed in the CosyWall™ manuals.

Building Code Compliance

Effect on Existing Structure

(NZBC B1.3.2)

The structural performance of the framing, claddings & internal linings is not reduced by CosyWall™ EWCIS. Structural timber framing is not altered and there is no introduced or accumulated moisture to cause damage.

The size & spacing of any holes through sheet bracing have minimal structural effect. CosyWall™ does not promote corrosion on metal building components.

Durability

(NZBC B2.3.1)

CosyWall™ will satisfy the requirements of NZBC clause 2.3.1(a) & B2/AS1 Table 1 of 50 years durability in lined wall cavities, as the only materials are water resistant glass wool and polyester resin cladding repair filler. Both are industry recognised as achieving 50-year durability. Vibration tests showed no settlement or shrinkage in wall cavities.

Durability of the existing structure is not reduced, as CosyWall™ EWCIS is dry applied, water resistant, non-wicking and vapour permeable. Should future leaks occur, CosyWall™ does not extend framing timber drying time sufficient to increase framing timber decay.

Fire Properties & Electrical Wiring

(NZBC C2.2, C3.7, G9.3.1)

CosyWall™ is non-combustible, and needs no additional treatment to prevent the spread of flame. Fire development via the "flue effect" is inhibited inside wall cavities lined with building paper or without horizontal blocking.

Clauses C2.2, C3.7 compliance isn't affected, as fire rated walls and cavities with heating equipment are avoided.

Clauses G 9.3.1 compliance isn't affected, as CosyWall does not deteriorate TPS wiring, all rubber insulated wiring is avoided and other wires do not overheat within CosyWall at legal current loads.

External Moisture

(NZBC E2)

CosyWall™ insulation EWCIS complies with clause E2 via an alternative solution, utilizing similar methodology of acceptable solution E2/AS1, clause 3 site assessment weather tightness risk factors. CosyWall™ insulation is installed dry, does not transfer water via wicking and, if soaked, dries within 30 days.

The system does not affect existing building compliance with clauses E2.3.2, as any cladding damage is reinstated. CosyWall™ reduces the possibility of water entering cavities and diminishes cavity condensation risk.

Internal moisture

(NZBC E3)

Compliance with NZ Building Code (NZBC) clauses E3.2 (a) & (c) is not required for an altered existing building, but is achieved with CosyWall™ via E3/AS1 clause 1.1.1(a). The minimum Total R-values of R1.5 stipulated in E3/AS1, are exceeded with wall cavities >65mm with sheet or other claddings of higher R-value.

Health Effects

(NZBC section F2.3.1)

CosyWall™ complies with NZBC section F2.3.1, as nonhazardous materials. It is low bio-persistent mineral wool with no added formaldehyde, which is odourless and does not provide food for vermin. The product does not represent a health risk to installers or occupiers of insulated buildings.

CODEMARK™
CM70016

Codemark Certification

CosyWall insulation has Codemark certification that helps provide you with peace of mind that when you choose CosyWall Insulation, it is a durable, long-lasting product that will be installed by qualified experts. The system is continually reviewed through regular auditing and testing procedures giving you the reassurance that the installation will be done to the highest quality standards.

TEST & DOCUMENT REVIEW:
BBA Appraisal Certificate 13/4969
Group Energy Consultants reports 0212-01c, 0912-01a, 0912-01b, 1012-02, 1012-01F, BV0214
CodeMark Certificate Number AQ-181017-CMNZ

CosyWall®

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Available from Licensed Installer: