

ThermaDoor®

Garage Door Insulation
Est. 2012



Everything you need to specify a garage door insulation system - all in one convenient download

Smart insulation for the garage. This pack gives professionals an easy, compliant, and proven way to boost performance, comfort and ratings with ThermaDoor's Premium range.

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About ThermaDoor

Proudly Australian owned and manufactured, ThermaDoor Premium Range garage door insulation is a construction grade EPS (Expanded Polystyrene) insulation panel. It has a laminated construction grade reflective foil backing and is finished with an impact resilient, easy to clean vinyl laminate face.

Our Premium Range has been specifically designed to retrofit to the internal panel of most existing sectional and tilt style garage doors.

Peter Hinton is the Director of ThermaDoor. He is a Licensed Builder (QBCC Lic - 49645) with over 45 years' experience in the construction industry. In 2012, his expertise in energy efficient construction led to the development of ThermaDoor's Premium Range garage door insulation.





Premium Range

Uninsulated garage door



Before

Surface temperature readings



After

Disclaimer: temperatures may vary depending upon orientation and location of garage.

Invented by an Aussie builder, made for Australian conditions - right here in Australia

- ✓ Reduces temperature transfer through the garage door by up to **90%**
- ✓ Designed **specifically** for our harsh Aussie conditions
- ✓ 35mm **flame retardant** polystyrene core
- ✓ **Laminated** (not glued) durable, easy-clean vinyl face for long lasting protection
- ✓ **Laminated** (not glued) construction-grade sisalation foil backing for superior thermal performance
- ✓ **Minimises noise** - great for home offices, workshops, home gyms & more
- ✓ **Lightweight** composition - adds about 7kg to a standard double garage door (springs adjusted to accommodate)
- ✓ Sleek **white** finish to brighten up the garage
- ✓ **Trusted** by Aussie builders, energy assessors, garage door industry pros, & thousands of Aussie home owners.

Purpose made for garage doors
Designed, tested & manufactured by an Aussie builder

ThermaDoor®

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Curious how ThermaDoor Premium performs? Give it a go. The results will surprise you

Enhancing 7 Star NatHERS Ratings & NCC 2022 Compliance.

Boost your star rating by up to 1.4 stars

Disclaimer: Star rating outcomes using ThermaDoor garage door insulation will vary depending on climate zone, garage construction, orientation, and whether the space is conditioned or not.



Why Garage Door Insulation Matters

Uninsulated doors weaken thermal performance and lower star ratings

ThermaDoor garage door insulation's thermal benefit increases star ratings even when the garage is not air conditioned

Pro Tips for Energy Assessors, Building Designers & Architects

In NatHERS, model the garage door as bulk insulated using ThermaDoor Premium values

Confirm R-values are entered: R1.48 (winter) / R1.43 (summer)

Compliance & Energy Performance

Supports NCC2022 7-Star optimisation and compliance

Proven, cost effective way to optimise the home's star rating - with measurable results

ThermaDoor Premium at a Glance

Built for reliable thermal performance in Australia's varied climate zones.

Suitable for integration with most sectional and tilt style garage doors

Internal lining features a smooth laminated vinyl finish - designed for durability, everyday functionality and contemporary appeal

Standards Compliance & Compatibility Statement

Verified Thermal Performance -

AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018

- ✓ Finished panels have been **laboratory tested, and the system R-value calculated strictly in accordance with both standards.**
- ✓ Results are suitable for compliance modelling in NC2019/2022, NatHERS assessments.

AS 3999:2015 – Installation

Although this standard was written specifically for walls, floors and ceiling rather than garage doors, ThermaDoor® Premium was purpose designed - drawing on extensive construction expertise - to satisfy the standard's core intent and compliance principles namely:

- ✓ Secure mechanical fixing (not gluing)
- ✓ Preservation of critical air cavity
- ✓ No damage to the door skin or structure
- ✓ Inclusion of professional spring adjustment to maintain safe operation

Independent Verification

Full test reports confirming that ThermaDoor® Premium **meets or exceeds its published R-value** are available for professional review.

In practice: By combining R-values verified to **AS/NZS 4859** with an installation method aligned to the intent of **AS 3999**, ThermaDoor® Premium gives builders, designers, architects, garage door specialists and energy assessors a clear, NCC compliant path to reliable thermal performance and higher NatHERS scores - without the guesswork.

Why Components Are Laminated, Not Glued

Benefit of Factory Lamination	Why It Matters to Professionals	Standards & Evidence Tie-In
Uniform bond-line (press cured under controlled temperature & pressure)	Eliminates weak spots, bubbles and voids that can lead to panel warping or delamination on site.	Compatible with AS/NZS 4859.1 durability & dimensional stability expectations.
Stable R-value for life of the door	Thermal resistance is locked in - no adhesive creep, gaps or air pockets that degrade performance over time.	Supports the "maintains declared performance for service life" clause in AS/NZS4859.1.
Moisture sealed interface	Closed bond prevents capillary wicking and mould growth often seen when panels are spot glued to metal doors.	Aligns with AS/NZS 4859.1 moisture resistance testing: critical in humid coastal climates.
Full compatibility with mechanical fix method	Panels remain flat & rigid, so fasteners sit cleanly, and air cavity depth stays consistent - essential for reliable thermal results	Mechanical fixing is the preferred method in AS3999; laminated panels maintain fix off integrity under vibration.

Premium Range Fast Facts

-  R1.48 (winter) / R1.43 (summer)
tested thermal values
-  AS/NZS 4859 Parts 1 & 2:2018 (material)
compliant
-  AS 3999 (installation) aligned
-  Mechanical fixing, spring adjustment,
sealed system
-  Invented by an Aussie builder. Made for
the harsh Aussie climate
-  Trusted by construction industry pros



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