

Garage Door Insulation

A Simple Buyer's Checklist (Australia)

What actually matters when comparing garage door insulation options

Thermal performance

(what the numbers really mean)

- ✓ R-value is specific to the garage door application, not walls or ceilings
- ✓ R-values determined in accordance with **AS/NZS 4859.1 & AS/NZS 4859.2 (application-based)**
- ✓ Performance considers **both summer and winter**, not one-way claims
- ✓ Independent thermal engineering documentation available where required

Fit & design

(how it works on a moving door)

- ✓ An air cavity is maintained (not glued flat to the metal door)
- ✓ Added door weight is clearly stated and accounted for
- ✓ System is designed specifically for garage doors, not adapted from other products.

Installation & door operation

- ✓ Insulation is mechanically fixed, not reliant on glue
- ✓ Door balance and movement are preserved
- ✓ **Spring re-balancing** and safety checks are non-negotiable
- ✓ Installation remains complaint with AS/NZS 4505

**AS/NZS 4505 is the Australian Standard that covers the safe operation and performance of garage doors, including balance, movement, and loading.*

Any insulation added to a garage door must not compromise how the door operates. Where additional weight is introduced, spring re-balancing and safety checks are required to ensure the door continues to operate safely and as intended.

Moisture management & durability

- ✓ Design manages condensation, rather than trapping moisture
- ✓ Materials are suitable for Australian climates and conditions
- ✓ Long term durability considered, not just short-term appearance

Compliance pathway

(especially for new builds)

- ✓ Supports NCC2022 when modelled in NatHERS
- ✓ Door specific R-values **inclusive of independent documentation** available when requested

When to pause and ask more questions

- A single headline R-value with no AS/NZS context
- Products glued directly to the door skin
- No allowance for added weight or spring adjustment
- Claims that standards, modelling, or compliance are not relevant