Masons PrimeTherm ERS WarmWall IN

DESIGN AND INSTALLATION GUIDE

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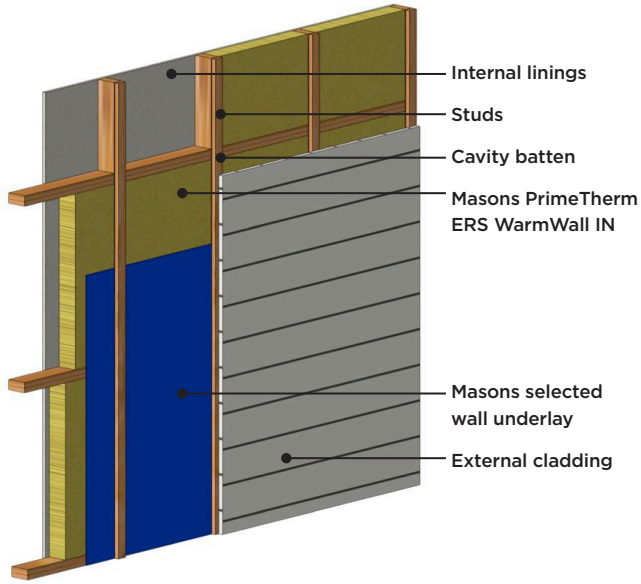

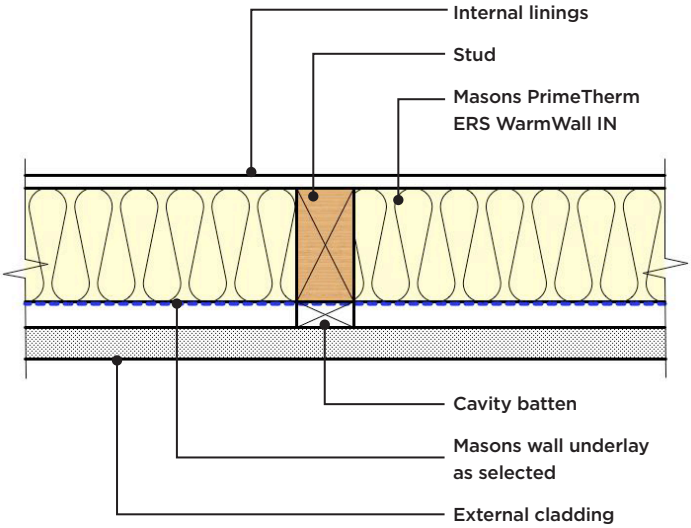

PRODUCT NAME

Masons PrimeTherm ERS WarmWall IN

DESCRIPTION AND INTENDED USE

Masons PrimeTherm ERS WarmWall IN is a superior quality closed-cell sheet insulation manufactured from rigid thermosetting polyisocyanurate (PIR) closed-cell foam.

PrimeTherm ERS WarmWall IN is intended to be installed between timber or steel wall framing members.

PrimeTherm ERS WarmWall IN is available in raw/unfaced and glass fibre faced in thickness' ranging from 20 - 150mm.

INSULATION AND COMPLIANCE

Masons PrimeTherm ERS WarmWall IN is intended to be installed between timber or steel wall framing members by Liscenced Building Professional installers who guarantee the completed installation will meet the requirements of NZS 4246:2016 to ensure the R-values required by any relevant regulations or building design specifications are achieved.All construction work on houses, including installing or retrofitting insulation, shall comply with the NZBC. While there is no minimum required level of insulation that shall be retrofitted, given the time and effort, it is recommended that as much insulation as practicable be installed. If insulation is removed, then it shall be replaced with insulation of equal or higher R-value.In exterior walls, self-supporting insulation is recommended to minimise the risk of contact between the insulation and cladding.

KEY BENEFITS

PrimeTherm ERS WarmWall IN is designed for New Zealand applications, providing an extra-high level of moisture-resistant insulation for timber and steel-framed walls. It is non-conductive and will not contribute to galvanic corrosion of steel framing.

PrimeTherm ERS WarmWall In can be cut to fit easily into standard wall constructions or can be neatly trimmed for a snug fit to non-standard constructions. It is non-compressible, will not sag and will maintain its thickness and thermal performance after installation.

LIMITATIONS ON THE USE OF PRIMETHERM ERS WARMWALL IN:

Masons recommend design, specification and installation by Licensed Building Practitioners with product and application experience. PrimeTherm ERS WarmWall IN cannot be permanently exposed to the elements.

PrimeTherm ERS WarmWall IN contributes to satisfying building code requirements as part of a wall system that is designed, installed and maintained in accordance with product literature and project specifications. It does not contribute to structural bracing.

HANDLING AND STORAGE

PrimeTherm ERS boards should be stored undercover, in a clean, dry area protected from damage. If the product becomes wet, simply allow the product to dry before installing. Wetting and drying will not affect product performance as it is a closed-cell water barrier that does not absorb moisture.

DESIGN REQUIREMENTS SUPPORTING THE USE OF PRIMETHERM ERS WARMWALL IN

Design applications shall match the intended use as insulation between timber or steel wall framing members. Installation to be performed by professional installers who guarantee the completed installation will meet the requirements of NZS 4246:2016. Plan for the position of services within the framing.

Designers shall refer to the PrimeTherm ERS Technical Data Sheet (TDS) to determine whether PrimeTherm ERS WarmWall IN is suitable for any application.

Facing Type	0.022 W m-k thickness in mm	R Value after aging* (estimated)	Density kg/m³	Compressive strength KPA
All	50	2.03	40	158
All	80	3.24	40	158
All	100	4.05	40	158
All	120	4.86	40	158

DESIGN CONSIDERATIONS

- Requires precise fit to avoid thermal bridging
- Design to meet clause H1 NZBC
- Not to be left exposed in habitable spaces without lining.
- Design wall system to manage moisture risk
  - Always check compatibility with membranes, adhesives, foams if used in contact with and perform spot tests where needed.
  - PVC sheathed electrical cables do not typically react with PrimeTherm ERS WarmWall IN, however, best practice and product specific guidance still applies

Installation

OVERVIEW

PrimeTherm ERS WarmWall IN shall be installed as applicable in accordance with NZS 4246:2016 – Installing bulk thermal insulation in residential buildings, to ensure the R-Values required by any relevant regulations or building design specifications are achieved.

Correct installation with no gaps is critical to ensure the insulation performance of the wall is achieved. The simplest installation will be achieved by choosing a PIR thickness that fills the frame thickness.allowing a space for electrical wiring

STEP 1	Open the packaging so that any off-cuts can be collected for recycling or disposal at the end of the job
STEP 2	Ensure framing is plumb, square and dry. Remove debris inside the cavities.
STEP 3	Remove the PrimeTherm ERS WarmWall IN from the packing. Measure and cut the boards to achieve a snug fit between studs and dwangs.Product may be cut using a fine toothed saw, or by scoring-and-snapping with a sharp knife.
STEP 4	If the PrimeTherm ERS WarmWall IN does not completely fill the thickness of the frame, movement within the framing cavity can be prevented by either: › nailing treated battens to the side of the studs so the inside surface of the product finishes flush with the inside face of the frame, or › fit the product so the outside surface of the product finishes flush with the outside face of the frame, and then nail treated pine battens to the studs to hold the product in place.
STEP 5	Measure each cavity individually. Cut PIR boards to be 1-2mm wider than cavity width for friction fit. Trim carefully to avoid large gaps
STEP 6	Friction fit PrimeTherm ERS WarmWall IN between framing members to finish flush with the inside face of the framing. The product may be temporarily held in place by tacking with nails.
STEP 7	if required use foil tape to seal board-to-board gaps or damage.
STEP 8	Ensure the entire wall is insulated as gaps will reduce the performance of the wall. Gaps may be filled with expanding polyurethane foam for the full thickness of the product, or similar.
STEP 9	Place offcuts into the original packaging for recycling. Hassle-free pick-up services are available at many locations.

HEALTH AND SAFETY

Refer to the Masons PrimeTherm ERS MSDS for detailed safety instructions.

ENVIRONMENTAL DATA

See Masons PrimeTherm ERS Safety Data Sheet. Contain off-cuts in bags to ensure the product is not blown away or can enter waterways. Environmentally sound recycling services ensure products can be recycled and reused. Hassle-free pick-up services are available at many locations.

MAINTENANCE REQUIREMENTS

Masons PrimeTherm ERS WarmWall IN does not require regular maintenance. Damaged, dented, fractured product must be replaced.

- During renovations or wall access, inspect for damage or moisture ingress.
- Replace or reseal batts if disturbed.

PRODUCT IDENTIFIER

A label is supplied on each sheet and pack and contains Masons PrimeTherm ERS PIR Board.

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