INNOVA by etex

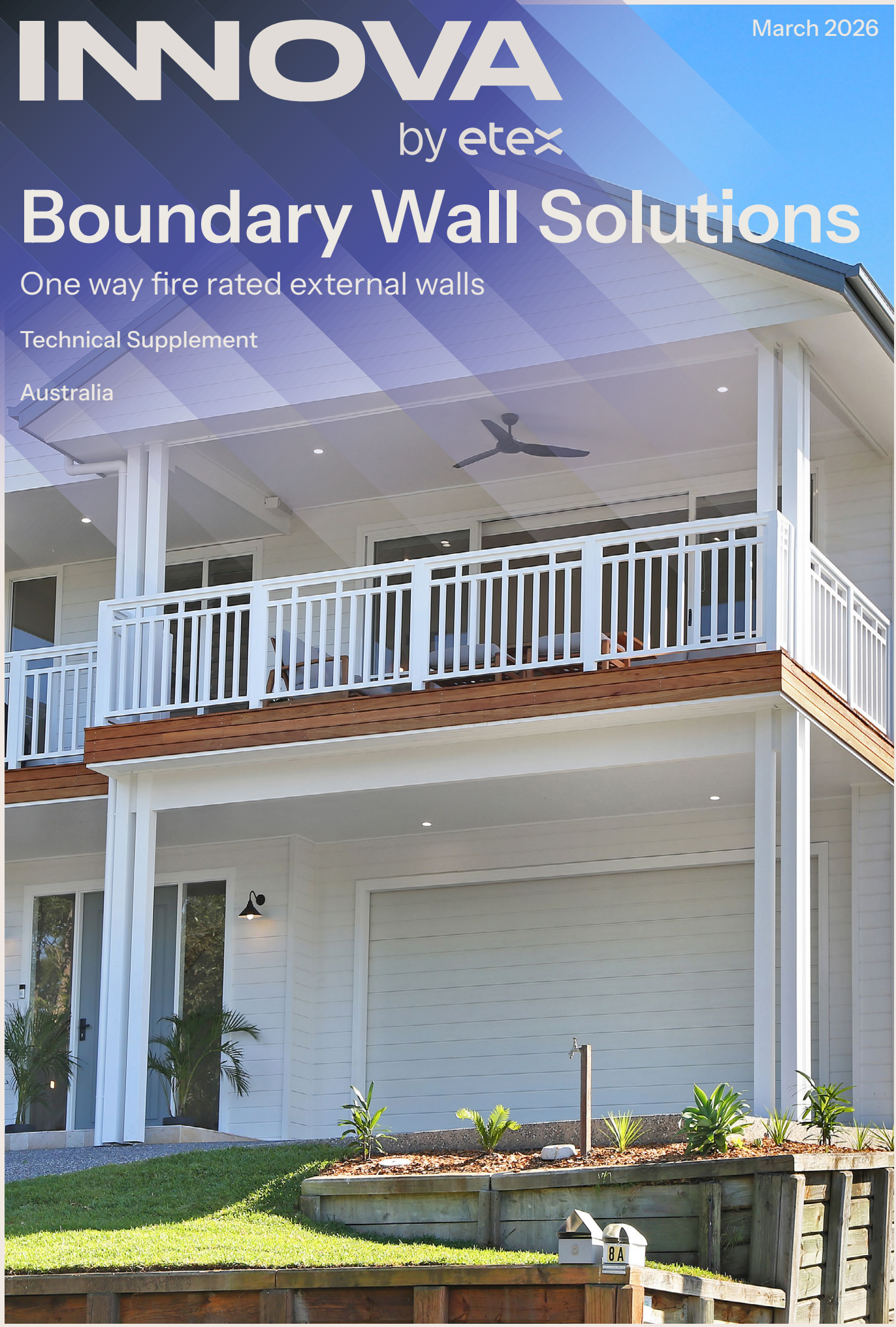
March 2026

# Boundary Wall Solutions

## One way fire rated external walls

Technical Supplement

Australia



## Disclaimer

Innova products and systems designed by Etex Australia Pty Ltd are produced in accordance with the Building Code of Australia and relevant Australian Standards at the time of publication. Information in this document is to be used as a guide and is subject to project approval as many aspects of construction are not comprehensively covered. It is the responsibility of the designer to confirm Innova products and systems are suitable and meet the requirements for the intended application. Etex Australia Pty Ltd will not be held responsible for any claims resulting from installation not in accordance with the manufacturer's technical literature or relevant Standards.

Failure to design, install, finish and maintain Innova fibre cement products accordance with this Technical Supplement, Design & Installation Guides, applicable state or territory building codes, regulations and Australian Standards may lead to injury, reduction in performance, violate building codes and product warranties.

Innova regularly updates technical literature; to ensure this document is current with the latest information, visit innovafibrecement.com.au.

## About Innova

Innova is a commercial brand of Etex, a global building material manufacturer and pioneer in lightweight construction. Etex wants to inspire people around the world to build living spaces that are ever more safe, sustainable, smart, and beautiful. Founded in 1905 in Belgium, Etex are a family-owned company with more than 13,500 employees across 160 sites and 45 countries.

Innova are the fibre cement specialists, and distribute external cladding systems, interior lining and flooring substrate products specifically designed for the residential and commercial markets in Australia and New Zealand

With a deep understanding of the local market needs, the Innova range of fibre cement products provide architects, designers, builders and homeowners with a range of traditional and contemporary solutions to create spaces that work for their project.

Innova are constantly looking for ways to evolve and innovate their product offering, adapting to changes in the market.

Innova - built on change, backed by Etex.

# 1. Working Safely

## 1.1 Working Safely with Innova Fibre Cement

**WARNING: P2 OR HIGHER-GRADE RESPIRATOR MUST BE WORN AND PRODUCT CUT OUTDOORS.**

Innova fibre cement is manufactured from finely ground sand (silica), cellulose fibers, portland cement and additives. In the product's manufactured state, it does not release airborne dust. Inhalation of Respirable Crystalline Silica (RCS) is hazardous and can cause damage to lungs, respiratory system, and cancer when users are exposed to dust over prolonged periods without adequate controls in place.

The risks associated with RCS inhalation arise during installation activities where mechanical methods are used for cutting, rebating, drilling, routing, crushing, sanding and cleaning up, disposing of, or relocating dust.

Before, during and after installation, it is important to be aware of activities that generate and lead to dust becoming airborne. Innova recommends following the Innova Working Safely Guidelines listed below in addition to site-specific safety procedures, Safe Work Australia guidelines and state or territory guidelines.

**USERS ARE RESPONSIBLE FOR ADHERING TO GUIDELINES, RECOMMENDATIONS, SAFETY DATA SHEETS, INSTALLATION GUIDES, FEDERAL AND LOCAL REGULATIONS TO AVOID SERIOUS HEALTH IMPACTS.**

**Control the risks by utilising engineering controls (i.e. tools/equipment), administrative controls (i.e. workspace/safe work method statement) and correct PPE (i.e. respirator/eye wear).**

## 1.2 Innova Working Safely Guidelines

### Documentation

Read the current Safety Data Sheet and Working Safely documents available at innovafibrecement.com.au.

ALWAYS wear a properly fitted P2 or higher-grade respirator when cutting, drilling, rebating, sanding.

ALWAYS alternate cutting activities with others to reduce exposure time.

AVOID using power tools to cut or shape fibre cement products indoors.

NEVER use a saw blade that is not designed to cut fibre cement.

ALWAYS use on-tool dust extraction when using power tools; M or H-Class vacuum fitted with a HEPA filter.

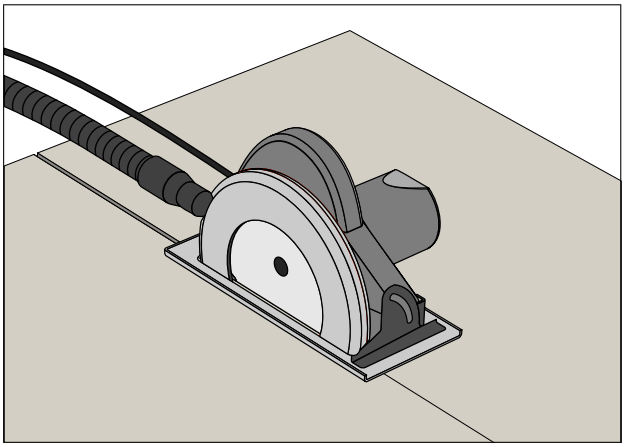
ALWAYS follow the tool manufacturer's guidelines for correct and safe operation.

DO NOT dry sweep. Use wet suppression then sweep or H or M-Class vacuum.

DO NOT continue activities if you are concerned about exposure levels or cannot comply with the above guidelines.

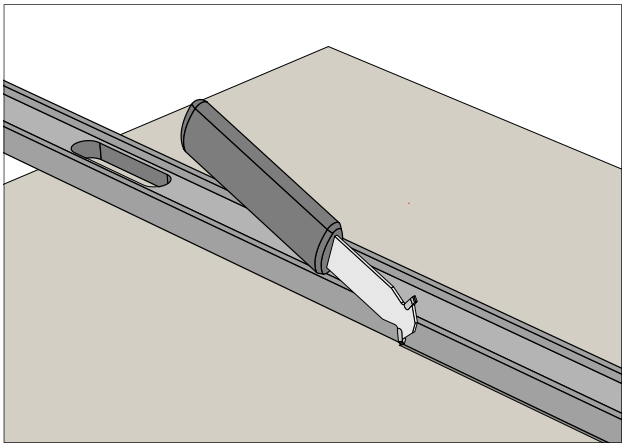
### Power Saw

Circular, compound mitre and track saws with dust extraction provide accurate and clean cuts. Ensure saw is fitted with a PCD 4 or 6 tooth fibre cement blade. Always follow the manufacturers guidelines for safe operation.



### Score and Snap Knife

Score the face of the product using a straight edge and repeat until adequate depth is achieved for a clean break when pulling upwards. Smooth rough edges with a rasp.



## 1. Introduction

This Technical Supplement outlines the requirements for designing and constructing one-way fire rated, external boundary wall systems utilising Innova fibre cement in conjunction with Siniat fire rated plasterboard systems.

It is designed to complement Siniat's Blueprint Lightweight Construction Manual Version 4 (April 2025) by offering specific guidance relating to Innova fibre cement systems for residential and commercial construction.

The solutions contained in this Technical Supplement are suitable for external wall applications requiring fire resistance for load-bearing timber and steel stud framed walls.

## 2. About Etex / Innova / Siniat

**Etex Group** is a global building materials company providing innovative solutions for lightweight construction.

**Innova** is an Etex fibre cement brand, offering external cladding products and systems designed for fire resistance, structural performance, weatherproofing, and long-term durability.

**Siniat** is an Etex plasterboard brand, providing tested and certified wall and ceiling systems, including fire-rated boundary wall solutions.

Within the Etex portfolio, Innova fibre cement products and systems are endorsed for use as external cladding over Siniat wall systems, combining the strength and durability of fibre cement with the proven fire performance of Siniat plasterboard systems.

## 3. Purpose

This Technical Supplement outlines the minimum requirements when combining Innova fibre cement cladding with Siniat one-way fire-rated external wall systems for use in boundary wall applications. Siniat fire rated systems are referenced in this document with guidance of the how they must be constructed, and where they are suitable within the requirements of the National Construction Code (NCC).

This Technical Supplement provides designers, builders and certifiers with clear guidance on:

- Selecting a compliant one-way FRL wall system for timber or steel framing.
- Understanding the role of external fire-rated linings (Multishield or Trurock) and how Innova fibre cement is applied over these systems.
- Performance considerations including thermal values, insulation, durability, corrosion, acoustic performance and moisture management.
- Ensuring the system is installed and detailed in accordance with tested configurations published in Siniat Blueprint Version 4.
- Outlining the limitations, installation requirements and suitability across different FRLs and building classes.

This Technical Supplement is intended to support and complement, not replace, Siniat Blueprint Version 4. All fire-rated system configurations, framing requirements, material specifications and installation details must be verified against Siniat Blueprint Version 4 Section 4.1 (External Steel Stud Walls), Section 4.3 (External Timber Framed Walls) and Section 2 (Materials & Building Requirements).

By using this document in conjunction with Siniat Blueprint Version 4, designers can confidently design, specify and construct compliant boundary walls that meet NCC performance requirements and maintain the fire, acoustic, thermal and durability performance intended by the tested systems.

### 3.1. Product Conformance

Innova and Siniat products meet the requirements of the following standards:

**Fibre Cement**

**AS/NZS 2908.2:2000 – Cellulose-cement products, Part 2: Flat sheets:** Confirms product classification, physical properties, and durability requirements for fibre cement sheets.

**Plasterboard**

**AS/NZS 2588:2018 – Gypsum plasterboard:** Siniat plasterboards manufactured to this standard, considering mechanical properties, dimensional restraints.

### 3.2. Supporting Documentation

This Technical Supplement must be read in conjunction with the following documents:

**1- Siniat Blueprint Version 4**


Go to Siniat.com.au to download the latest edition.

The major sections are:

Section 2 – Materials, Building Requirements, Thermal & Moisture Guidance

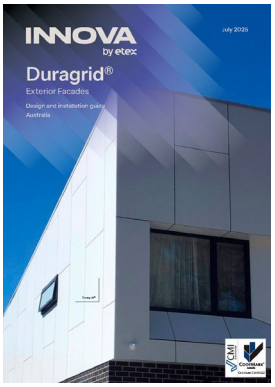
Section 4.1 – External Steel Stud Walls

Section 4.3 – External Timber Framed Walls

**2- Innova / External Cladding Design & Installation Guide**

**Example design and Installation guide:**

Duragrid® Design and Installation Guide




Go to innovafibrecement.com.au to download the latest edition.

These documents contain the tested system configurations, installation requirements, material specifications, and acceptable system variations required for NCC-compliant construction.

## 3.3. Requirements of AS 1530.4

The AS/NZS 1530.4 Methods for fire tests of building elements is the primary standard used to determine the fire performance of wall systems in Australia and New Zealand. It establishes the Fire Resistance Level (FRL) by assessing three critical criteria:

**Structural Adequacy:** The ability of the wall system to maintain its load-bearing capacity when exposed to fire.

**Integrity:** The ability of the wall system to resist the passage of flames and hot gases, preventing fire spread through cracks, openings, or penetrations.

**Insulation:** The ability of the wall system to limit the temperature rise on the non-fire side, protecting occupants and adjacent spaces from heat transfer.

## 4. Applications & Compliance

The systems described are suitable for external walls where a fire resistance level (FRL) is required under NCC Vol. 1 & Vol. 2.

Applications include:

- Residential
- Commercial
- Detached and semi-detached housing

Both timber and steel frame options are addressed to provide flexibility across construction types.

The NCC (2022) Housing Provisions Part 9.2 – Fire separation of external walls requires that the external walls of Class 1 buildings located within 900 mm of an allotment boundary (other than a boundary adjoining a public road or other public space), or external walls within 1.8 m of another building on the same allotment (other than an appurtenant Class 10 building or a detached part of the same Class 1 building), must achieve a Fire Resistance Level (FRL) of 60/60/60.

For Class 2 and Class 3 buildings of Type C construction, where external walls are within 1.5 m of a fire source feature to which they are exposed, the required FRL is 90/90/90. These provisions are set out in NCC Volume One, Specification C1.1 Clause 5. For more information on fire resistance level requirements for Class 2 and 3 buildings with different construction types, refer to Section 2.3 of Siniat Blueprint Version 4. Some of the main applications are depicted below.

Higher FRL wall sections are available in Siniat Blueprint Version 4 and the designer must check all NCC requirements before specifying. This information is provided as a guide only and must not be used as a substitute for the NCC. Designers must refer directly to the NCC 2022 for compliance requirements.

The wall systems referenced in this document have been tested and/or assessed in accordance with AS/NZS 1530.4 and the NCC. Fire Resistance Levels (FRL) are achieved when the systems are installed as outlined in Siniat Blueprint Version 4 and relevant Innova external cladding Design & Installation Guide. Supporting certification documents are available upon request.

The following Table provides major compliance summary to NCC 2022:

| Building Class | Construction Type | Distance to Boundary / Fire Source Feature | Required FRL (minutes) |
|---|---|---|---|
| **Class 1** | Timber or steel frame | Within 900 mm of allotment boundary (not adjoining public road/space) OR within 1.8 m of another building on same allotment | **60/60/60** |
| **Class 2 & 3** | Type C construction | External walls within 1.5 m of a fire source feature | **90/90/90** |
| **Class 10a** | Non-habitable outbuilding | No FRL unless it affects a Class 1 wall (e.g., located between Class 1 and boundary/ another building). | **-/60/60** |

This information is provided as a guide only and must not be used as a substitute for the National Construction Code. Designers must refer directly to the NCC 2022 for compliance requirements.

The wall systems referenced in this document have been tested and /or assessed in accordance with AS/NZS 1530.4 and the NCC. Fire Resistance Levels (FRL) are achieved when the systems are installed as outlined in Siniat Blueprint Version 4 and relevant Innova external cladding Design & Installation Guide. Supporting certification documents are available upon request.

## 5. System Components

Wall system performance is dependant on all system components being correct and installed in accordance with manuals and Design and Installation Guides by Siniat and Innova.

Each wall system comprises the following key elements:

**Internal Lining (where required):** Siniat plasterboard fixed to the interior side of the wall frame for final finishing and contribution to fire performance.

**Framing and Layout:** Timber or steel frames, designed and installed in accordance with Siniat wall system requirements. Follow Siniat's framing requirements, including stud spacing and system layout. Deviations from published configurations are not permitted.

The boundary wall in this situation is required to function as the FRL-compliant wall, with the appropriate fire-resistance level determined by the applicable building class. While the current literature primarily addresses building Classes 1, 2, and 3, the recommended system is suitable for use across all building classes.

**External Fire Rated Linings:** Siniat plasterboard fixed to the exterior side of the wall frame, before weatherbarrier is applied, to provide the critical external fire protection.

**External Cladding:** Innova fibre cement, the external cladding layer, contributing to fire resistance, durability, and weather protection. Follow the correct and up to date Design & Installation Guide for the selected external cladding system by visiting innovafibrecement.com.au.

**Fasteners:** Screws or nails appropriate to the frame, installed at specified spacing to maintain structural and fire performance.

**Sealants and joint treatments:** Joints, service penetrations, and interfaces must be sealed with fire-rated sealants or jointing systems to ensure continuity of the fire rated lining.

**Insulation and cavity barriers:** Where insulation is required, install non-combustible materials such as mineral wool. Ensure cavity barriers are continuous and correctly positioned to prevent fire spread.

## 6. Acoustic, Structural, Moisture, Thermal, Insulation & Durability

Innova fibre cement, when used with Siniat's one-way fire-rated boundary wall systems, contributes to performance across acoustic, structural, moisture, thermal and durability requirements. All performance outcomes rely on the system being installed as detailed in Siniat Blueprint Version 4.

**Acoustic Performance:** Acoustic performance is achieved through the combined mass of Siniat internal linings, the external MultiShield or TruRock layer, and approved insulation. Acoustic ratings (Rw, Rw + Ctr) apply only when systems match the configurations in Blueprint Version 4 and use insulation compliant with AS/NZS 4859.1.

**Structural Performance:** Structural integrity relies on correct framing and installation:

- Steel systems must follow the framing requirements in Blueprint Section 4.1.
- Timber systems must follow the framing requirements in Blueprint Section 4.3, based on MGP-rated timber.

Overall structural design must comply with the AS/NZS 1170 series, AS/NZS 4600, and AS 1684, NASH Standard, as outlined in Blueprint Section 2.

**Moisture Management:** Moisture management is achieved through:

- Protecting external plasterboard until wall wrap and cladding are installed,
- A drained cavity is recommended for moisture management, but some Codemark-certified systems allow direct-to-frame installation when built exactly as tested. Designers must confirm the applicable configuration in Siniat Blueprint Version 4 and the relevant Innova Design and Installation guide.
- Selecting the wall-wrap type by climate zone (vapour-permeable in Zones 4–8; alternative wraps in Zones 1–3) in accordance with Blueprint Section 2.

**Thermal R-Values:** Thermal resistance improves with the addition of 10 mm, 13 mm and 16 mm plasterboard layers used in fire-rated systems.

The thermal contribution of Siniat plasterboard is:

- 10 mm plasterboard → R 0.059 m2 K/W
- 13 mm plasterboard → R 0.076 m2 K/W
- 16 mm plasterboard → R 0.094 m2 K/W

Boundary wall systems use multiple plasterboard layers to achieve higher FRLs; therefore, the total system R-value is higher than a published R-Values featured in the Innova external cladding Design and Installation Guide. For thermal guidance, refer to Blueprint Version 4 Section 2 Thermal Performance.

**Insulation:** Insulation must comply with AS/NZS 4859.1 and follow the Siniat system tables. Siniat systems specify Fletcher Insulation for thermal and acoustic performance. Insulation thickness or density may be increased to meet NCC energy requirements, provided it does not contradict the tested acoustic configuration. For full guidance, refer to Blueprint Version 4 Section 2.

**Durability and Corrosion:** Durability and corrosion must be considered in boundary wall applications. Siniat Blueprint Version 4 specifies:

- Steel framing typically uses Zincalume® AM150 coating,
- Avoid contact between steel framing and dissimilar metals (e.g., copper, stainless steel) or CCA-treated timber,
- Consider environmental exposure (coastal/industrial zones).

More detailed durability guidance is provided in Blueprint Version 4 Section 2.

**Climate Zones and Permeability:** Climate zone affects wall design, moisture control and vapour permeability. Siniat Blueprint Version 4 Section 2 outlines condensation management and climate-zone wrap selection in external walls. All boundary wall designs must consider:

- Wall wrap selection,
- Condensation risk,
- Thermal break requirements for steel framing.

## 7. Typical One-Way Fire-Rated Boundary Wall Systems

The following wall systems show how Innova fibre cement cladding integrates with the tested Siniat one-way fire-rated systems for timber and steel framing. All systems must be constructed exactly as detailed in Siniat Blueprint Version 4 Section 4.1 (steel) and Section 4.3 (timber).

### 7.1 General

**Siniat Interior Lining Options:**

- Mastashield
- Watershield
- Soundshield
- Fireshield
- Multishield
- Impactshield
- Trurock/Trurock HD

**Siniat External Fire-Rated Lining:**

The external fire-rated ining must be:

- Multishield or
- Trurock,

See system tables for correct product thickness and number of layers.

**External Cladding:**

- Innova fibre cement (minimum 6mm), installed in accordance with Innova Design & Installation Guide.
- Installation direct to frame, top hats or timber battens installed between the external cladding and external fire rated plasterboard do not alter the system's FRL

### 7.2. Timber Stud Systems

Typical one-way fire-rated boundary wall systems using timber stud framing include:

**Framing:**

- Timber frame installed to Blueprint Version 4 Section 4.3 requirements.
- Maximum stud spacing 600mm.

### 7.3. Steel Stud Systems

Typical one-way fire-rated boundary wall systems using steel stud framing include:

**Framing:**

- Steel frame installed to Blueprint Version 4 Section 4.1 requirements.
- Maximum stud spacing 600mm.
- Use designated head/base track (HC2/HC3/HC4, BC2/BC4).

## 8. Definitions & Explanations for Siniat One-Way Fire-Rated System Tables

Tables 1 to 4 in this document summarise Siniat one-way fire-rated wall systems suitable for use with Innova fibre cement external cladding. A "one-way fire-rated" system is tested to achieve its Fire Resistance Level (FRL) when exposed to fire from the external side only, which is the condition required for NCC boundary walls.

Each table outlines a specific group of tested systems, presenting:

### 8.1 Stud Size & Wall Thickness

Specifies the required stud dimensions (timber or steel) and total wall thickness necessary to achieve the certified FRL.

### 8.2 Siniat System Number (TSW SSW Codes)

Each unique system code links directly to a tested and certified wall configuration in Siniat Blueprint Version 4.

### 8.3 Acoustic Performance (Rw / Rw + Ctr)

Indicates the tested acoustic ratings for each assembly with various insulation options.

## 8.4 Framing Arrangement

Provides a schematic representation of the required stud spacing, lining layers, and insulation positions. These arrangements must not be altered to maintain FRL compliance. A typical detail is presented in Figure 1 below.

Note that all systems must be installed exactly as shown in Siniat Blueprint Version 4.

This includes maintaining:

- Lining types and thickness
- Number of layers
- Maximum Stud spacing
- Insulation type and density
- Fibre cement thickness
- Correct fixing patterns and fastener lengths
- Wrap and junction details

Any variation may void FRL compliance.

## 9. Fibre Cement External Cladding Compatibility

Siniat one-way fire rated boundary wall systems are suitable for use with any compliant external fibre cement cladding, provided the cladding has a minimum thickness of 6 mm (sheet or plank).

When installed as part of a tested Siniat fire-rated wall system, the fibre cement functions as the external protective layer, supporting durability, weather resistance, and non-combustibility. Innova fibre cement products meet or exceed these requirements and are fully compatible with all Siniat one-way fire-rated boundary wall systems when installed in accordance with Siniat Blueprint Version 4 and the relevant Innova Design & Installation Guide.

## 9.1 Key Requirements

The following requirements are to be met:

- Minimum fibre cement thickness: 6 mm.
- Fibre cement sheets or planks must be fixed using approved fasteners with adequate penetration into the framing.
- Longer fasteners are required where fibre cement is installed directly over plasterboard layers.
- All external cladding must be installed in accordance with:
  - Innova fibre cement Design and Installation Guide.
  - Siniat Blueprint Version 4 system requirements.
  - NCC and project-specific compliance requirements
- No component of the wall system may be altered (stud spacing, lining thickness, insulation type, wraps, fire-rated sealants).

## 10. Penetrations in Fire-Rated Boundary Walls

Penetrations within the boundary wall must be considered in accordance with the specific allowances provided in the NCC for Class 1 and 10 buildings. As per Clause 9.2.3(5) of the NCC 2022 Housing Provisions (Class 1 buildings) states that subfloor vents, roof vents, weepholes, control joints, construction joints and penetrations for pipes, conduits and similar services do not need to comply with Clause 9.2.3(3), which is the requirement for fire-protected openings. This exemption applies only to the opening-protection rules; the wall must still achieve the minimum FRL 60/60/60 required by Clause 9.2.3(2)(a).

## 11. Performance Note

While fibre cement contributes to durability, moisture resistance, and exterior protection, the fire-resistance level (FRL) is achieved by the complete Siniat wall system assembly. Fibre cement must therefore only be used in the manner specified in the tested configuration to maintain certified fire performance.

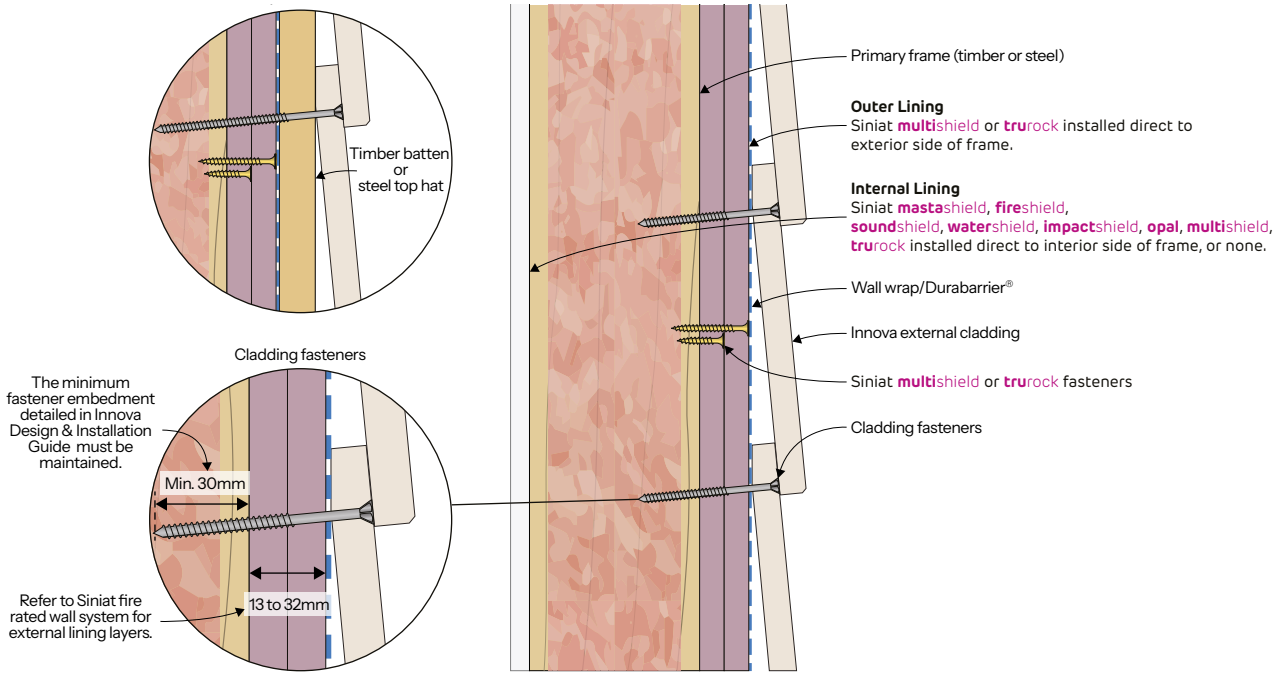
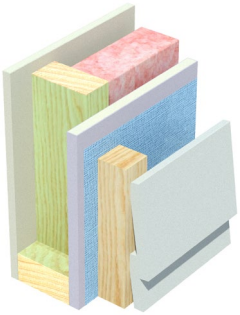
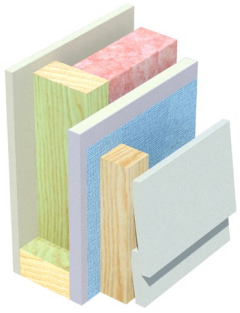
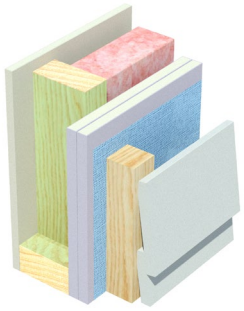
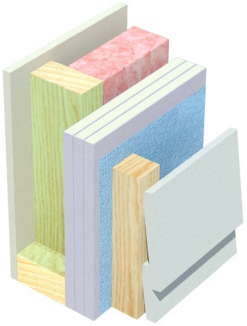



Figure 1. Typical construction detail

# Fire rated timber framed wall systems suitable for load bearing walls without suspended floors

Table 1: One way fire rated timber framed wall solutions with specified internal wall lining

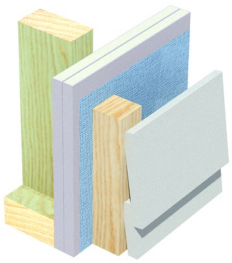
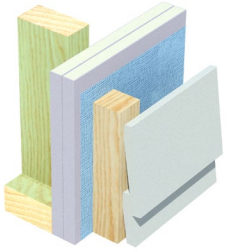
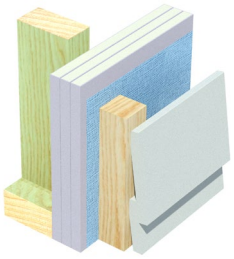
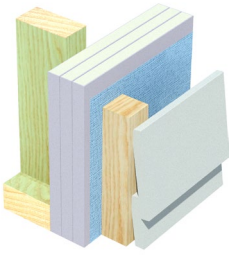
| System FRL | Stud Size (mm) | Wall Thickness (mm) | Siniat/ Innova System Number | Acoustic Performance Rw (Rw + Ctr) | | | Wall Components | Framing Arrangement |
|---|---|---|---|---|---|---|---|---|
| | | | | Pink Batts Wall R1.5 | Pink Batts Wall R2.0 | Polyester Wall R1.5 | | |
| **30/30/30** | 70 | 93 + cavity + cladding | TSW470 | 39 (31) | - | 39 (31) | - 1 layer of 10mm Mastashield or Watershield<br>- Minimum 70mm timber stud framing at 600mm maximum centres<br>- Wall insulation as specified<br>- 1 layer of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| | 90 | 113 + cavity + cladding | | 39 (32) | 40 (32) | 39 (31) | | |
| **60/60/60** | 70 | 96 + cavity + cladding | TSW473 | 39 (31) | - | 39 (31) | - 1 layer of 10mm Mastashield or Watershield<br>- Minimum 70mm timber stud framing at 600mm maximum centres<br>- Wall insulation as specified<br>- 1 layer of 16mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| | 90 | 116 + cavity + cladding | | 39 (32) | 40 (33) | 39 (32) | | |
| **90/90/90** | 70 | 106 + cavity + cladding | TSW471 | 44 (36) | - | 44 (36) | - 1 layer of 10mm Mastashield or Watershield<br>- Minimum 70mm timber stud framing at 600mm maximum centres<br>- Wall insulation as specified<br>- 2 layers of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| | 90 | 126 + cavity + cladding | | 45 (37) | 45 (38) | 45 (37) | | |
| **120/120/120** | 70 | 119 + cavity + cladding | TSW472 | 47 (38) | - | 47 (38) | - 1 layer of 10mm Mastashield or Watershield<br>- Minimum 70mm timber stud framing at 600mm maximum centres<br>- Wall insulation as specified in table<br>- 3 layers of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| | 90 | 139 + cavity + cladding | | 48 (40) | 48 (41) | 48 (40) | | |

Note:

1. Fire Resistance Level (FRL) from the outside only.

# Fire rated timber framed wall systems suitable for load bearing walls with framed suspended floors

Table 2: One way fire rated timber framed wall solutions with optional internal wall lining

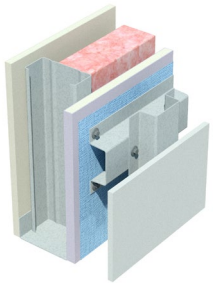
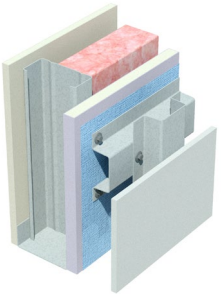
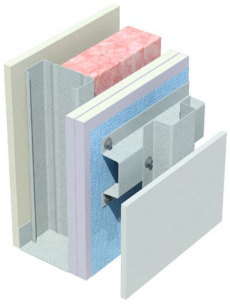
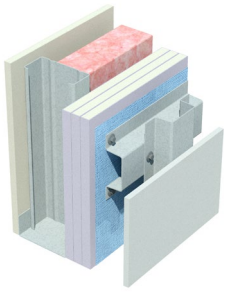
| System FRL | Stud Size (mm) | Wall Thickness (mm) | Siniat/ Innova System Number | Acoustic Performance Rw (Rw + Ctr) | | | Wall Components | Framing Arrangement |
|---|---|---|---|---|---|---|---|---|
| | | | | No Insulation | Pink Batts Wall R1.5 | Polyes-ter Wall R1.5 | | |
| **30/30/30** | 70 | 96 + cavity + cladding | TSW491 | 34 (31) | 34 (31) | 34 (31) | - Optional internal wall lining<br>- Minimum 70mm timber stud framing at 600mm maximum centres<br>- Optional wall insulation<br>- 2 layers of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| | 90 | 116 + cavity + cladding | | 34 (31) | 34 (31) | 34 (31) | | |
| **60/60/60** | 70 | 102 + cavity + cladding | TSW494 | 35 (32) | 35 (32) | 35 (32) | - Optional internal wall lining<br>- Minimum 70mm timber stud framing at 600mm maximum centres<br>- Optional wall insulation<br>- 2 layers of 16mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| | 90 | 122 + cavity + cladding | | 35 (32) | 35 (32) | 35 (32) | | |
| **90/90/90** | 70 | 109 + cavity + cladding | TSW492 | 37 (35) | 37 (35) | 37 (35) | - Optional internal wall lining<br>- Minimum 70mm timber stud framing at 600mm maximum centres<br>- Optional wall insulation<br>- 3 layers of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| | 90 | 129 + cavity + cladding | | 37 (35) | 37 (35) | 37 (35) | | |
| **120/120/120** | 70 | 118 + cavity + cladding | TSW495 | 38 (36) | 38 (36) | 38 (36) | - Optional internal wall lining<br>- Minimum 70mm timber stud framing at 600mm maximum centres<br>- Optional wall insulation<br>- 3 layers of 16mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| | 90 | 128 + cavity + cladding | | 38 (3) | 28 (36) | 38 (36) | | |

Note:

1. Fire Resistance Level (FRL) from the outside only.

# Fire rated steel framed wall systems suitable for load bearing walls without suspended floors

Table 3: One way fire rated steel framed wall solutions with specified internal wall lining

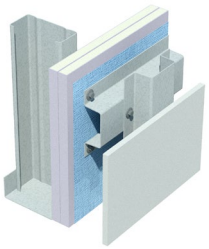
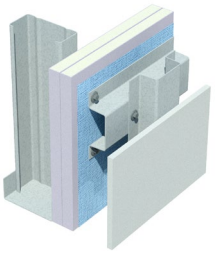
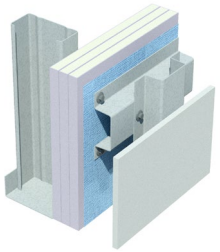
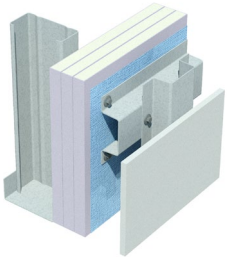
| System FRL | Stud Size (mm) | Wall Thickness (mm) | Siniat/ Innova System Number | Acoustic Performance Rw (Rw + Ctr) | | Wall Components | Framing Arrangement |
|---|---|---|---|---|---|---|---|
| | | | | No Insulation | Pink Batts Wall R2.0HD | | |
| **30/30/30** | 70 | 140 approx | SSW470 | 36 (28) | 40 (30) | - 1 layer of 10mm Mastashield or Watershield<br>- Minimum 70mm steel stud framing at 600mm maximum centres<br>- Optional wall insulation<br>- 1 layer of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| **60/60/60** | 70 | 145 approx | SSW473 | 37 (29) | 41 (31) | - 1 layer of 10mm Mastashield or Watershield<br>- Minimum 70mm steel stud framing at 600mm maximum centres<br>- Optional wall insulation<br>- 1 layer of 16mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| **90/90/90** | 70 | 155 approx | SSW471 | 41 (32) | 45 (34) | - 1 layer of 10mm Mastashield or Watershield<br>- Minimum 70mm steel stud framing at 600mm maximum centres<br>- Optional wall insulation<br>- 2 layers of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| **120/120/120** | 70 | 170 approx | SSW472 | 44 (34) | 48 (38) | - 1 layer of 10mm Mastashield or Watershield<br>- Minimum 70mm steel stud framing at 600mm maximum centres<br>- Optional wall insulation<br>- 3 layers of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |

Note:

1. Fire Resistance Level (FRL) from the outside only.

# Fire rated steel framed wall systems suitable for load bearing walls with framed suspended floors

Table 4: One way fire rated steel framed wall solutions with optional internal wall lining

| System FRL | Stud Size (mm) | Wall Thickness (mm) | Siniat/ Innova System Number | Acoustic Performance Rw (Rw + Ctr) | | Wall Components | Framing Arrangement |
|---|---|---|---|---|---|---|---|
| | | | | No Insulation | Pink Batts Wall R2.0HD | | |
| **30/30/30** | 70 | 145 approx | SSW491 | 34 (30) | 34 (30) | - Optional internal wall lining<br>- Optional wall insulation<br>- Minimum 70mm steel stud framing at 600mm maximum centres<br>- 2 layers of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| **60/60/60** | 70 | 150 approx | SSW494 | 35 (31) | 35 (31) | - Optional internal wall lining<br>- Optional wall insulation<br>- Minimum 70mm steel stud framing at 600mm maximum centres<br>- 2 layers of 16mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| **90/90/90** | 70 | 155 approx | SSW492 | 37 (34) | 37 (34) | - Optional internal wall lining<br>- Optional wall insulation<br>- Minimum 70mm steel stud framing at 600mm maximum centres<br>- 3 layers of 13mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |
| **120/120/120** | 70 | 165 approx | SSW495 | 38 (35) | 38 (35) | - Optional internal wall lining<br>- Optional wall insulation<br>- Minimum 70mm steel stud framing at 600mm maximum centres<br>- 3 layers of 16mm Multishield or Trurock<br>- Wall wrap<br>- Innova Fibre Cement Cladding |  |

Note:

1. Fire Resistance Level (FRL) from the outside only.