The **Stramit Uniguard™ fire-resisting wall system** combines a single Promina® 60 board with profiled steel wall cladding. The strength, simplicity and thermal insulation properties of the system make it an ideal boundary wall solution for industrial and commercial buildings.

**IMPORTANT NOTE**

The information contained within this brochure is as far as possible accurate at the date of publication, however, before application in a particular situation, Stramit Building Products recommends that you obtain qualified expert advice confirming the suitability of product(s) and information in question for the application proposed. Whilst accepting its legal obligations, be aware however that to the extent permitted by law, Stramit Building Products disclaims all liability (including liability for negligence) for all loss and damage resulting from the use of the information provided in this brochure.
Selection & Specification

System Description

The **Stramit Uniguard™ fire-resisting wall system** is a superior fire-rated wall cladding solution combining a single layer of specialist Promina®60 board with profiled steel wall cladding. The system offers a choice of **Stramit® Corrugated**, **Stramit Monoclad®** or **Stramit Longspan®** wall cladding.

The **Stramit Uniguard™ fire-resisting wall system** provides a simple, economical means of constructing fire-resistant walls on site boundaries, saving on installation time and costs and providing superior external fire protection.

The **Stramit Uniguard™ fire-resisting wall system** can easily be substituted for systems using multiple fireboards or other firewall systems. Contact Stramit Building Products for further information.

**Stramit Uniguard™ fire-resisting wall system**

- **Fire-resisting** – Complies with the requirements of the Building Code of Australia (BCA).
- **Low weight** - Easy on-site transportation and installation.
- **High-tensile steel frame** – The strong, lightweight frame allows reduction in foundation size.
- **Conventional construction** – Low-cost, speedy construction, no need for specialist trades.
- **Single layer lining board** – Easy install, easy to inspect, giving confidence in the system.
- **Durable** – Water, fire and vermin resistant; no additional coatings required.
- **Warranty** – Wall cladding material warranties (COLORBOND® steel and ZINCALUME® steel).
- **Widespread availability** – Quick delivery across Australia; available through Stramit Building Products distribution network.
- **Flexible design** – Lining boards are only required close to boundary, allowing economical conventional construction for remaining walls.
- **Versatile cladding options** – Choice of Stramit® cladding profiles and rib orientation.
- **Additional benefits** – Acoustic insulation; uniform internal wall appearance; easily painted if required; all system components can be repaired or replaced if damaged by fire.

Applications

The combined strength and thermal protection properties of the **Stramit Uniguard™ fire-resisting wall system** make it the ideal boundary wall solution for industrial and commercial buildings. The simplicity of the system significantly reduces firewall building procedures and construction times.

The Promina®60 board is very durable and is resistant to fire, water and vermin.

The **Stramit Uniguard™ fire-resisting wall system** is to be used as an external wall system for single-storey Class 7b and 8 buildings of type C construction as defined in the Building Code of Australia (BCA).

The **Stramit Uniguard™ fire-resisting wall system** is suitable for use in both non-cyclonic and cyclonic regions. However, be advised that in the event of a cyclone the system, as with all metal cladding systems may lose functionality and need replacement.

**Note:** The **Stramit Uniguard™ fire-resisting wall system** is intended only for commercial and industrial wall cladding applications. Do not use for any other purpose.
BCA Fire Resistance

The Stramit Uniguard™ fire-resisting wall system provides a solution to the BCA requirements for external walls of buildings with floor area less than 2000m² in Class 7b and Class 8 buildings (factories and warehouses) of type C construction. The system conforms to the BCA requirements for an 'alternative solution' (i.e. that can be demonstrated to be equivalent to the Deemed-to-Satisfy provisions). Testing has shown that the Stramit Uniguard™ system can meet the radiant heat flux exposure limits of Verification Method CV1.

Full details of the testing, BCA alternative solution verification and system constraints and limitations are provided in Warrington Fire Research Report No’s. 40981B, 2275300-RPT01-Ver1 and subsequent appended opinions. Copies of the reports are available from Stramit Building Products.

To meet BCA alternative solution requirements, it is essential that the details provided in this technical manual and the WFRA report are fully adhered to. It is recommended to submit the report to the relevant regulatory authorities to gain approval of the proposed alternative solution.

Care in Use

To preserve the fire resistance qualities of the Promina®60 board, no holes should be created in the boards with nails, poster pins, etc.

Materials

The Promina®60 board is manufactured from calcium silicate, which looks and feels like conventional fibrous cement board.

Promina®60 boards are supplied in a standard size of 2400 x 1200mm with a thickness of 15mm and a mass of approximately 41kg per board.

Stramit® wall cladding is manufactured from hi-tensile G550 COLORBOND® or ZINCALUME® steel. In some locations COLORBOND® Ultra steel may be available by arrangement or galvanised steel available for special service environments. COLORBOND® and COLORBOND® Ultra steel is in accordance with AS2728-Category 3 and, for the substrate, AS1397. ZINCALUME® AZ150 and galvanised Z450 steel conform to AS1397. Spacing battens are made from Z350 GALVASPAN® coated steel.

Stramit Building Products has a comprehensive range of COLORBOND® colours as standard. Refer to the COLORBOND® colour chart available from Stramit Building Products and refer to the nearest Stramit Building Products location for colour availability.

Adverse Conditions

Stramit Uniguard™ fire-resisting wall system is suitable for most non-coastal conditions; check external cladding technical manual for material selection.

Compatibility

All building products should be checked for compatibility with adjacent materials. Check for direct contact between materials, as well as where water runs from one material to another.

COLORBOND® and ZINCALUME® cladding must not be in contact with concrete surface and must have a free drip edge.

Note: Direct contact between the Promina®60 board and the steel cladding must be avoided by the use of spacing battens. See page 6 for details.

Testing

The Stramit Uniguard™ fire-resisting wall system has been tested by Warrington Fire Research, Victoria. Copies of the report can be obtained from Stramit Building Products.

Stramit cladding profiles have been comprehensively tested, including independent tests at the Cyclone Testing Station.

Architectural Specification

To ensure products of appropriate quality are used in construction of the firewall, use a specification similar to the following.

The walling shall be the Stramit Uniguard™ fire-resisting wall system where the external cladding is 0.42 or 0.48mm bmt Stramit® Corrugated, Monoclad® or Longspan® steel cladding. Design and installation must be in accordance with the manufacturer’s published recommendations.

Specifications for all Stramit® cladding products can be found on the Stramit Building Products website and downloaded for insertion into documentation.
Acoustic Properties
While formal data is not currently available, the Stramit Uniguard™ system has intrinsic acoustic properties that aid noise attenuation.

Water Tolerance
The Promina®60 board is water tolerant; if it becomes wet it will not rot, deteriorate or lose strength once dry.

Water Absorption
Absorption of water through the Promina®60 boards will not produce a detrimental effect to the boards themselves, however, items in contact with a damp board may react, cardboard boxes/fasteners/purlins and girts. The long performance of purlins and girts may be adversely affected if in contact with damp Promina®60 boards and any warranties previously granted by the supplier may be void. Hence, avoidance of water exposure to the boards is highly recommended.

Design
System Components

Wall girts (or Top hats) should be specified using the Stramit® Purlins, Girts & Bridging Product Technical Manual or the Stramit® Exacta® C & Z Purlins & Girts Technical Manual. Consideration should be given to the additional mass of the Promina®60 boards.

Promina®60 boards for the Stramit Uniguard™ fire-resisting wall system are a standard size design, therefore checks for performance are not required.

Spacing battens for the Stramit Uniguard™ fire-resisting wall system do not require additional design checks.

Wall cladding wind resistance should be checked using the Stramit Technical Manual for either Stramit® Corrugated, Monoclad® or Longspan® cladding.

Boundaries

The Stramit Uniguard™ system allows external walls to be built right up to the boundary, if practical considerations allow. Allowance for gutters and downpipes must be made when considering the proximity of the wall to the boundary. Only the fire resisting wall sections need to be constructed using the Stramit Uniguard™ system. The remaining walls except for the 3 metre setbacks may be constructed using a conventional Stramit® walling system, except for the setbacks.

Wall integrity
Stramit Uniguard™ fire resisting walls must not be compromised by any penetrations or non fire resistant inclusions, such as windows/doors/piping/plumbing.

Orientation
The steel cladding of the Stramit Uniguard™ fire-resisting wall system may be fixed with a vertical or diagonal orientation. The steel cladding orientation is primarily aesthetic and does not affect system performance.
Spans

The **Stramit Uniguard™ fire-resisting wall system** is suitable for use in most categories (see pressure tables on page 7).

The system is limited to a maximum span of 1200mm, as shown in the diagram. This is also the preferred girt spacing for optimum support of the thermal board. The bottom row of girts must be no more than 100mm from the concrete slab.

Girt spacings must also take account of the fastener layout of the lining boards. Board cantilevers must not exceed 300mm.

Horizontal joins between boards must also be supported by a girt, with both boards overlapping the flange.

*Note: Maximum girt deflection is L/150*

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**Fascia Detail**

- Detail to prevent entry of embers (eg fire-resisting eave filler strip)
- 300mm max board overhang
- Fascia purlin
- Drip edge
- Wall cladding
- Promina®60 board

**Corner Detail**

- Butt edges of the Promina®60 board tightly together
- Fill any gaps using Promat Promaseal® sealant

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See product technical manuals for **Stramit® Corrugated**, **Monoclad®** or **Longspan®** steel cladding, or the **Stramit® Roof & Wall Flashing Design Guide** for further flashing, trim and moulding options.

*Note: Drawings not to scale.*
### Pressures

#### STRAMIT® WALL CLADDING – SERVICEABILITY LIMIT STATE CAPACITY

<table>
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<tr>
<th>Sheeting Profile</th>
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Limit state pressures shown are applicable to equal, double and internal/end span combinations. See product technical manuals for higher pressures, if required.

#### STRAMIT® WALL CLADDING – STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)

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*Typically girt spacing has to be a decrement of 2400 (i.e 1200, 800 etc)

Pressure values based on a minimum girts thickness of 1.5mm. Data for other profiles and thickness/fastener combinations not currently available.

#### STRAMIT® CLADDING – STRENGTH LIMIT STATE CAPACITY (Cyclonic)

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*Typically girt spacing has to be a decrement of 2400 (i.e 1200, 800 etc)

Pressure values based on a minimum girts thickness of 1.5mm. Data for other profiles and thickness/fastener combinations not currently available.
**Procurement**

**Prices**

Product prices for the *Stramit Uniguard™ fire-resisting wall system* and its accessories can be obtained from Stramit Building Products or distributors of Stramit® products. Stramit Building Products does not provide an installation service; supply and fix price must be obtained from a tradesperson. Contact Stramit Building Products for the names of qualified tradespersons in your area.

When calculating the required quantity of the Promina®60 board, it is recommended that approximately 5% extra be ordered to allow for wastage and cutting during installation. Note that minimum order charges apply and there is a minimum order of five boards. Because the *Stramit Uniguard™* system is tested as a complete system, the Promina®60 boards are not sold separately.

**Length**

Standard Promina®60 board dimensions are 2400 x 1200mm. *Stramit Uniguard™ fire-resisting wall system* cladding is supplied cut-to-length. When designing or transporting long products, ensure the length is within the limit of the local transport authority regulations.

The manufacturing tolerance on the length of cladding product supplied is +0, -15mm.

**Related products**

- **Stramit® Flashing** - A range of standard and custom flashing for covers and capping.
- **Promaseal® Acrylic Sealant** - Acrylic fire sealant penetration gap sealant.
- **Spacing battens** - The two Uniguard galvanised spacing battens shown below are recommended for the use in the *Stramit Uniguard™* system, however, it is also acceptable to use Stramit® ceiling battens. In all cases, battens between the Promina®60 board and the cladding must be galvanised or Colorbond® steel and between 12.5mm and 40mm deep. Do not use aluminium, Zincalume® or combustible materials.

**Ordering**

*Stramit Uniguard™ fire-resisting wall system* can be ordered directly, through distributors, or supplied and fixed by a contractor.

**Delivery/Unloading**

Delivery can normally be made within 48 hours (subject to the delivery location, quantity and material availability) or at a prearranged date and time. Ensure that suitable arrangements are made for truck unloading, as this is the responsibility of the receiver.

**Handling/Storage**

*Stramit Uniguard™ fire-resisting wall system* components should be handled with care to avoid damage. Component packs should be kept dry at all times and the Promina®60 boards should be stored above ground while on site and kept covered until use.

**Installation**

Some states may need formal training for personnel installing fire-resisting system. Please contact your nearest Stramit location for details.

**Site Induction**

Consideration should be given to handling and installation issues as part of site induction safety procedures. Specific consideration should be given to pack handling, avoidance of cuts, trips, slips and falls, long sheet handling (particularly in windy conditions), sheet cutting procedures and surface temperature on sunny days. Personal protection equipment (PPE) should always be used.

**Fasteners**

All fastening screws must conform to AS3566-Class 3 or 4. Sheet fasteners should be hexagon-headed and may be used with sealing washers.

**For pan-fixing cladding to girts**

- No.12x45mm hex head self-drilling and threading screws, (for use with 12.5mm spacing batten. For cyclonic areas use No. 14 screws)
- No. 12x55mm hex head self-drilling and threading screws, (for use with 25mm spacing batten)
- No. 12x65mm hex head self-drilling and threading screws, (for use with 40mm spacing batten)
  
  (for cyclonic areas use No. 14 screws)

**For fixing Promina®60 boards to girts**

- No.10x35mm wing-tipped and rib-head screws
- No.12x35mm hex head self-drilling and threading screws may also be used.

Fastener quantities should allow for general wastage and loss of screws.
Installation

Installation of the Stramit Uniguard™ fire-resisting wall system is a straightforward procedure using the following recommended fixing sequence:

1. Ensure all girts are in line and correctly installed.
   (If alternative flashing arrangement is desired, point 6 should be used next).
2. Fix the full-length Promina®60 board through its centre to the girt using 3 fasteners keeping plumb. Fasteners must not be used within 100mm of board edge. The top of the board should rest against a girt, leaving enough of the girt so that the bottom of the next board overlaps the girt and is supported against inward movement. The joins do not need to be fastened at this stage because the boards will be held in place by the spacing battens and secured by the sheet fasteners.

   Note: The gap between the concrete floor and the bottom row of boards should be no more than 5mm. Boards should also be fixed to the lowest girt with three recommended fasteners.

   N.B for the two outer screws leave a minimum of 100mm gap from board edge.

3. Butt the next board tightly up against the already attached board and fix as before. Repeat for any higher rows of boards.
4. Line up spacing battens with the girts and fix temporarily with adhesive tape.
5. Position and fix bottom flashing.
6. Position and fix the first cladding sheet, ensuring correct sheet overhangs. Ensure screws are not overtightened and are in line with girt and spacing batten. Use a minimum of 4 fasteners per sheet at each support.
7. Fix subsequent sheets, checking that sheet ends at the lower edge are exactly aligned. Ensure that cladding and flashing are fitted so that the Promina®60 board is not visible from the outside. Use a minimum of 4 fasteners per sheet at each support.
8. Position and fix edge trims.
Contact a Stramit Technical Services representative for further installation details.

**Tilt-up Frames**

Tilt-up frames are possible, where the wall system is assembled on the ground and lifted into place. However, careful planning and execution are required to ensure the lift is even and the system does not suffer damage such as board cracking. If the Promina® 60 boards are fixed flat, for tilt-up construction, walk only directly above the girts.

**Gaps**

Promina® 60 boards are accurately cut at right angles, but it is possible that during installation small gaps may occur, mainly due to site irregularities. The following diagrams show the maximum gap allowance at various points of the system.

- **Air gap between boards (max. 2mm)**
- **Gap between boards at girt (max. 5mm)**
- **Gap between boards and floor slab (max. 5mm)**

_N.B Promat Promaseal® acrylic fire penetration sealant may be used to seal gaps that exceed these dimensions._

**Good Practice**

Stramit Building Products recommends that good trade practice be followed when using this system, such as described in Australian Standards Handbook HB39.

**Handling**

Promina® 60 board

Use a Class P2 (particulate) respirator, wear leather or cotton gloves and dustproof goggles if previous cutting or sanding causes potential dust generation.

To reduce handling damage, the boards should be carried upright.

**Steel Cladding**

Wear safety glasses with side shields when cutting or trimming steel products. Cut-resistant or leather gloves should be worn when handling steel products. Foot protection should be worn when handling and transporting products.
Cutting

*Stramit Uniguard™ fire-resisting wall system* cladding components can be easily cut using a power saw with a steel cutting blade or tin snips. Avoid the use of abrasive discs as these can cause burr edges and coating damage. The Promina®60 board can be easily cut, where required, using conventional tools (tungsten-tipped saws, etc.). Dust deposits created from cutting or screwing of board and any metallic off-cuts from cladding must be disposed of carefully. The use of a vacuum bay or other respiratory protection and the use of dust-proof goggles is recommended.

Painting

Promina®60 boards can be painted using an acrylic paint if desired. The natural un-painted board colour is off-white.

Additional Information

Maintenance

Exterior surfaces of metal products unwashed by rain, such as walls beneath eaves or awnings, can benefit from occasional washing to remove build-up of corrosive salts. A simple visible inspection of the Promina®60 boards is recommended.

Repair

Minor repairs may be made by adhering small patches of board using Promaseal® acrylic sealant. Any boards damaged during building must be replaced. If boards are cracked during subsequent use they must be repaired. Small holes up to 50mm may be filled with Promat Promaseal® acrylic sealant. Contact Stramit Building Products for further details on repair.

Material Safety Data Sheet

A material safety data sheet (MSDS) is available for the Promina®60 board used in the system.

Further Information

In addition to the standard range of Technical Manuals, Installation Leaflets, Case Studies and other promotional literature, Stramit Building Products publishes a series of guides to aid design. These include:

- Roof Slope Guide
- Foot Traffic Guide
- Roof System Selection Guide
- Concealed Fixed Decking
- Bullnosing, Curving and Crimping
- Acoustic Panels
- Cyclonic Areas
- Spring Curving Guide

Copies of these guides or other literature can be obtained from any Stramit Building Products branch or downloaded from [www.stramit.com.au](http://www.stramit.com.au)

Other Products

Other Stramit® cladding products may be used as part of the *Stramit Uniguard™ fire-resisting wall system*. Before specifying an alternative cladding product, contact Stramit Building Products for further information. Stramit Building Products offers a wide range of building products, including:

- Purlins and girts
- Formwork decking
- Roof and wall sheeting
- Lightweight structural sections
- Truss components
- Gutters and downpipes
- Fascia
- Custom flashing
- Insulation products
- Fasteners

References

In preparing this document reference has been made to:

- Standards Australia Handbook – HB39 (Installation code for metal roof and wall cladding)
- BlueScope Steel Technical Bulletins
- Promat Australia Pty Ltd
- Fire reports (Warrington Fire Research)
### Contact Numbers for Information

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