STRAMIT MONOLAP®
ROOF LAP JOINT SYSTEM
For Stramit Monoclad®
Roof Cladding

Selection & Specification

Features/Benefits

- Increased safety
  - smaller roofing crews
  - lighter, shorter sheets to carry
  - smaller pack mass
  - roof sheets easier to lay and handle.
- Low profile seal – enhanced visual roof continuity.
- Economical – low cost solution for long roofs.
- Suits Stramit Monoclad® cladding profile – for roof slopes as low as 2 degrees.
- Sealed – for enhanced energy efficiency.
- Independently weather tested
  - peace of mind
  - confidence in system.
- Easy to use
  - fast and reliable installation
  - can be installed at any support member along the roof run.

- Advantage at restricted access sites
  - shorter product lengths
  - shorter trucks
  - easier access
  - less storage space.
- Uniform purlin height – no step in supporting structure, no need for structural modification, and no additional purlin.
- High technology materials for structural connections and weather performance.
- Proven materials
  - provide a durable solution
  - preserve normal roof warranty.
- Shorter length sheets
  - lower transport and handling costs
  - smaller site crane required
  - less thermal expansion and contraction.
- Usable in multiple rows – allows long monoslope roofs.

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Product Description

The Stramit MonoLap® roof lap joint is a revolutionary system (patent pending) that changes the way long run roof cladding is designed and installed. It provides a multiple sheet option for long length screw fixed roofing projects that eliminates traditional step joints or the need for long on-site rolled sheets, without compromising the integrity of the roofing structure.

Designed specifically for Stramit Monoclad® cladding, the Stramit MonoLap® roof lap joint system allows the installation of lapped sheets on standard purlin framing, without the need for conventional stepped jointing. The system provides a combination of a strong joint and a weather-resisting seal between lapped sheets.

The system is simply installed by placing onto the bottom sheet with enlarged holes in the ribs. The top, overlapping sheet is then placed over the Stramit MonoLap® units, and screwed through both layers to the support below.

The joint connectors and sealing foam are manufactured from high technology materials that provide strength and weather-resistance and preserve the existing roofing warranty.

Applications

Stramit MonoLap® roof lap joint system is specifically and exclusively designed to provide a sealed joint between overlapping sheets of Stramit Monoclad® cladding. It is suitable for all applications otherwise suitable for Stramit® Monoclad cladding. The unique low-profile overlapping arrangement allows for installation over support purlins that are in a single uniform plane regardless of cumulative roof run length, subject to normal drainage capacity limits.

Materials

The joint connectors are moulded from DuPont™ Zytel® nylon, a strong material suitable for extreme roof environments. The durable sealing strips are of soft closed cell foam that accommodates sheeting profile tolerances and creates a weather resisting joint.

Thermal Expansion

All materials change in length in proportion to temperature change. On a very long roof sheet this movement must be accommodated at the sheet ends resulting in stresses and distortions that can lead to problems with fixings and attachments to flashings etc. Dividing a very long sheet run into a series of moderate lengths, with a low-profile Stramit MonoLap® roof lap joint system between, will reduce the thermal movement at each sheet end to a substantially lower and manageable value.

Testing

Testing for strength and weather resistance has been carried out at the Stramit Research and Development laboratory. Testing was also carried out to investigate the effect of longitudinal sheet movement due to thermal expansion.

Warranty

Stramit Monoclad® roofs, insulated with foil-backed fibreglass blanket, and using the Stramit MonoLap® roof lap joint system, will retain all normal warranties. Contact your local Stramit office for details.

Architectural Specification

This specification may be added to that of the Stramit Monoclad® cladding to ensure that required performance and functional needs are met:

The Stramit Monoclad® cladding shall be installed in multiple overlapping lengths on a single plane using the Stramit MonoLap® roof lap joint system fixed strictly in accordance with the manufacturer's instructions.

Where translucent sheeting is also to be used, add the following:

Translucent sheeting joints that interface with the Stramit MonoLap® roof lap joints shall be constructed using the Stramit MonoSky® joint system, fixed strictly in accordance with the manufacturer's instructions.
Design

**Spans / Pressures**

When used with the *Stramit MonoLap*® roof lap joint system, the non-cyclonic spans and pressures provided in the *Stramit Monoclad*® cladding product technical manual and relevant Stramit Design Guides remain unchanged with the following conditions:

- the lapping spans at each joint shall be regarded as end spans for the purpose of determining wind and foot traffic capacity.
- The minimum roof slope must be maintained at 2 degrees.

**Support Structure**

Lap joints using the *Stramit MonoLap*® roof lap joint system do not require purlin step joints. The supporting structural steel can be designed and detailed so that all the roof purlins are in the same plane. Cleats must be arranged to suit purlin spacings consistent with any required change in sheet spacing arising from the Spans/Pressures clause above.

**Penetrations and Obstructions**

No obstruction to the water flow should be placed across the *Stramit MonoLap*® joint, nor should the joint be crushed by any load. All roof penetrations should be at least 1500mm away from the *Stramit MonoLap*® joint.

**Translucent Sheeting**

Where required, translucent sheeting must be specified to be lapped at the *Stramit MonoLap*® joint using *Stramit MonoSky*® joint system for translucent sheeting. Translucent sheeting for the lower run should be fixed before laying sheeting on an upper run.
Procurement

Ordering

Important: Please note, when ordering Stramit Monoclad® cladding for use with Stramit MonoLap® joint, allowance must be made for an additional overlap of 350mm at each lap joint along the roof run length:
- Bottom sheet + 200mm
- Intermediate sheet + 350mm
- Top sheet +150mm

Sheets must be measured to ensure the Stramit MonoLap® joint is installed over a supporting purlin.

Stramit MonoLap® roof lap rolls for supply with Stramit Monoclad® cladding can be ordered from your nearest Stramit location or distributor of Stramit® products.

Delivery/Unloading

Delivery can normally be made within 48 hours, subject to the delivery location, quantity and material availability, or can be at a pre-arranged date and time. Please ensure that suitable arrangements have been made for truck unloading, as this is the responsibility of the receiver.

Prices

Prices for Stramit MonoLap® roof lap joint units or rolls (to be supplied with Stramit Monoclad® cladding) can be obtained from your nearest Stramit location or distributor of Stramit® products. As Stramit does not provide an installation service, ask your tradesperson for a supply & fix price. Contact your nearest Stramit location for the names of suitable tradespersons.

Packaging

Stramit MonoLap® can be purchased in pre-joined rolls of units to cover a joint length of 7.62m, packaged in a plastic bag. Please recover bags and dispose of thoughtfully.

Related Products

Stramit MonoLap® Roll –
8 units of Stramit MonoLap® pre-joined together for ease of installation

Stramit Monoclad® cladding –
roof sheeting

Stramit MonoLap® Turn-Up/Down Tool –
for sheet end preparation at MonoLap® joint

Stramit MonoSky® joint system for translucent sheeting

Stramit Universal Monoclad® Turn-Up/Down Tool –
for sheet end preparation at ridge and eave

Ridge Capping –
standard or custom dimensions

Flashings –
a range of custom flashings

Filler Strips –
top and bottom; for eaves, ridge and joint sealing

Insulation & Roofing Mesh –
a range of mesh, sisalation, plain & foil backed blanket

Translucent Sheeting –
glass fibre sheeting in a range of shades and densities

Note that the preferred arrangement for translucent sheeting, when used with the Stramit MonoLap® roof lap joint system, requires that the sheet lap is at the same position and is connected using the Stramit MonoSky® joint system for translucent sheeting. Contact your nearest Stramit location for details.
**Installation**

**Installation Procedure**

*Stramit MonoLap®* roof lap joint units are readily installed. It is however important that the roofing sheets at each overlapping joint be carefully aligned. The summarised procedure is:

1. Alignment of sheets on the lower and upper runs must be determined before commencing the laying of sheets on the lower run to ensure the ribs match at the joint.

2. Place the lower run sheets with 200mm overhang beyond the centre of the support at the joint. Stringline or chalkline to show the centre of the support at this position.

3. Screw down the sheeting as per normal practice at all supports except at the joint. Turn up the high ends of the lower sheet in every pan using the *Stramit MonoLap®* turn-up/down tool.

4. Position the *Stramit MonoLap®* roof lap joint roll with the centre of the hole in the protruding nylon part over the centreline of the support, and the foam further away from the higher end of the lower sheet. Join subsequent rolls by unclipping the nylon unit with no foam on one side, inserting the end of the next roll with only foam through the joining pin, then pushing the pins back into the mating holes until it clicks into place. This can be done one at a time before installing the sheets or be connected prior to installation. Where a roll needs to be shortened, it would need to be cut to size.

5. Commence the higher sheet run by carefully aligning side edges with the first lower sheet and positioning with an overhang of 150mm. Screw sheeting to all supports except at the joint.

6. Drill a 16mm diameter hole at the top of each rib at the string line position at the joint, through both layers of sheet only. Remove any swarf. Turn down the pans of the upper sheet at the joint using the *MonoLap®* turn-up/down tool.

7. Position a *MonoLap®* cap over the 16mm diameter hole. Screw through using a No 12-14x68mm tek screw through both layers of sheeting and into the support below.

8. Barge capping needs to accommodate the slight rise in the joint area.

An illustrated leaflet is provided with each order containing fixing instructions. Where translucent sheeting is used an installation leaflet is also provided for the *Stramit MonoSky®* joint system for translucent sheeting.
We recommend caution be taken when walking on any roof. When walking on *Stramit Monoclad*® cladding always wear flat rubber soled shoes and place feet only in the pans except at supports, taking care to avoid the last pan or two near edges of the metal roof area.

**Walk only in pans, or on ribs at purlin supports**

**Good Practice**

Stramit recommends that good trade practice be followed when using this product, such as that found in Australian Standards Handbook HB39.

**Cutting**

*Stramit MonoLap*® roof lap joint units can be easily cut across the foam section using a retractable box cutter or suitable sharp cutting implement. Do not cut the nylon connectors at the top, only on the sides or pan area. Please dispose of any off-cuts considerately.

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**Additional Information**

**Further Information**

As well as our standard range of Technical Manuals, Installation Leaflets, Case Studies and other promotional literature Stramit has a series of Guides to aid design. These include:

- Roof & Wall Flashing Guide
- Roof Slope Guide
- Foot Traffic Guide
- Concealed Fixed Decking
- Bullnosing, Curving and Crimping
- Acoustic Panels
- Cyclonic Areas
- Spring Curving Guide

Please contact your nearest Stramit location for any of these guides or other literature.

**Other Products**

Stramit 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
- Fascias
- Custom flashings
- Insulating products
- Fasteners
CONTACT US


<table>
<thead>
<tr>
<th>REGION</th>
<th>LOCATION</th>
<th>CONTACT DETAILS</th>
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