



CODEMARK<sup>TM</sup>  
New Zealand

**TRITOflex**

Roofing & Decks

# Technical & Installation Manual

for use in New Zealand

Product system description and material details

V19



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The information contained herein and any other advice is given in good faith based on TRITON Incorporated's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with TRITON's recommendations.

Applicators & designers must always refer to the most recent edition of this NZ Technical and Application Manual and to the Data Sheets for the products concerned, copies of which will be supplied, or can be downloaded from **TRITOflex Distributors Limited** at [www.tritoflex.co.nz](http://www.tritoflex.co.nz).

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## 1 PRODUCT GENERAL DESCRIPTION

*TRITOflex Waterproofing System* is a complete waterproofing membrane system providing a high quality, durable, and long lasting solution for the watertight protection of all types of residential, industrial and commercial buildings in Australia and New Zealand.

The *TRITOflex System* is a new' water based, generation of liquid rubber which is spray or brush applied to form a seamless waterproofing coating. *TRITOflex* is available throughout Australia, New Zealand and the South Pacific through *TRITOflex Distributors Ltd* (hereafter referred to as 'TDL').

This technical manual outlines the installation and application of the *TRITOflex* system for a typical application. If specifiers require additional details please contact *TRITOflex Distributors Ltd* by email to [info@tritoflex.co.nz](mailto:info@tritoflex.co.nz).

*TRITOflex & TRITOtrowel* rubber is an interior or exterior cold fluid-applied, 100% waterproof product which is applied by spraying or by brush or trowel. Along with providing a waterproof seal it also helps minimise corrosion on vertical or horizontal structural steel. The system is suited for any residential, commercial or industrial buildings.

When sprayed (see 3.6 & 5.2) the finish of *TRITOflex* rubber has a sand-like surface texture. If the membrane covered surface is exposed to the elements it is highly recommended that a **TRITOtherm** coating supplied by *TRITOflex Distributors Ltd* is applied to ensure protection against ultra violet radiation. *TRITOtherm* is a ceramic glass acrylic coating which, when applied over *TRITOflex* rubber, maintains the durability of the *TRITOflex* membrane. When the *TRITOtherm* is maintained (inspected & re-coated regular) this will extend the *TRITOflex* service life indefinitely.

Product Material Safety Data Sheets **MSDS** are available on line at [www.tritoflex.co.nz](http://www.tritoflex.co.nz).

**The properties of *TRITOflex* rubber are:**

<u>Property</u>	<u>TestMethod</u>	<u>Value</u>
Solid Content	Vacuum cure	65%
Flame Exposure	ASTM E108	Self-Extinguishing
Water Vapor Permeability	ASTM E96	.26 perms; .182 grains
Elongation	ASTM D412	1900% or greater
Hydro-static	AATCC 127	Pass – No leakage
Impact and Hail Resistance	ASTM D3746	Pass, 40mm hail
Adhesion to Concrete	AS-NZS 1580.408.5	1.26 Mpa
Adhesion to Fibre Cement Bd.	AS-NZS 1580.408.5	0.69 Mpa
Adhesion to Plywood	AS-NZS 1580.408.5	1.50 Mpa
Adhesion to Galvanized Steel	AS-NZS 1580.408.5	1.88 Mpa
UV Exposure (Xenon)	ASTM G155	No effect after 1000 hrs
Cured to the Touch	After Sprayed	Instantly
Dynamic Puncture Resistance	ASTM D5635 mod	Blunt head; 2.80 J/mm
Dynamic Puncture Resistance	ASTM D5635 mod	Wedge head; 0.54 J/mm
Cold Temperature Pliability	ASTM D2939	-20 degrees Celsius/pass
Water Resistance Penetration	AS-NZS	None/Zero after 24 hours
Cyclic Movement (bridging)	AS-NZS 4654.1	Bridge-crack resistant/pass
VOC Content	Water base	None/Zero
Drinking Water	SANS 241-2011	Samples tested complies

Wind zone: to Extra High wind zones as defined in NZS 3604.

All the above tests results are the property of TDL & TRITON and copies are available on request.

## **2 USAGE**

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- 2.1** ROOFING including green roofing
- 2.2** EXTERIOR DECKS (non trafficable)
- 2.3** MEMBRANE ROOFING RESTORATION, including use on/over EPDM (rubber), PVC, TPO, LAM, METAL, CONCRETE, TAR & GRAVEL, MODIFIED BITUMEN (torch-on).

## **3 QUALITY ASSURANCE**

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### **3.1 STANDARDS**

*TRITOflex* products comply with Standards specified in this section and as listed in General Requirements as above, and in our Building Quality Plan.

### **3.2 QUALIFICATIONS OF MANUFACTURER**

*TRITOflex* products used in roofing or waterproofing work in this section must be manufactured directly and not delivered through any third party company or other operator. In part this is to ensure the integrity of the quality control measures adopted by the manufacturer which include testing and retaining samples of every product batch.

### **3.3 QUALIFICATIONS OF APPLICATORS**

*TRITOflex* applicators must meet the specification requirements as per 7.1 and related, and their personnel must hold the current approval certification from TDL. Only those spray technicians that have been approved through the manufacturer's training program are permitted to apply the *TRITOflex* membrane.

### **3.4 ROOFING/MEMBRANE INSPECTIONS**

Existing roof conditions must first be inspected by a trained & approved *TRITOflex Membrane Surveyor* to obtain a written report on the existing surface condition, the proposed remedy work required, cleaning methods to be undertaken and to prepare the specifications for the installation of *TRITOflex*. Before issuing a warranty for the system's application, all notifications, inspections and reports must be received and approved by TDL. See Clause 9.1, MEMBRANE SURVEYORS CHECK LIST, (page 12-14).

### **3.5 MANUFACTURER'S PRE-REVIEW**

TDL or their agent must inspect and approve all existing roof substrates to be re-covered with the *TRITOflex* System before application to ensure the system is fully appropriate for the substrate's use in each and every project.

### **3.6 SPRAY EQUIPMENT**

The *TRITOflex* liquid roof membrane may only be applied with spray equipment specified and manufactured by Triton Inc. and as supplied by TDL.

## 4 COMPLIANCE WITH THE BUILDING CODE

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### 4.1 SCOPE OF COMPLIANCE

The *TRITOflex* System complies with the following performance clauses of the New Zealand Building Code:

- B1** Wind uplift B1.3.2
- B2** - Durability B2.3.1 (a), (b) & (c)
- C3** - Fire Affecting Areas beyond the Fire Source C3.3, C3.7
- E2** - External Moisture E2.3.2
- E3** - Internal Moisture E3.3.3
- F2** - Hazardous Building Materials F2.3.1

### 4.2 B2 - DURABILITY

Used in accordance with this manual the *TRITOflex* System will meet the requirements of NZBC Clause B2. In difficult to access or replace situations, for example behind retaining walls, *TRITOflex* will last the life of the building being not less than 50 years.

Note: If in accordance with the Building Code, 10mm 12mm or 20mm cavities are to be provided this will:

- Allow moisture to run down the inside of the exterior cladding and escape through base vents/vermin tray without bridging the cavity.
- Provide sufficient air space, permitting air to circulate within the cavity to remove any moisture that may have entered the exterior cladding from the inside of the building.
- Since *TRITOflex* rubber is very low-permeable it will not allow the exterior cladding of a building to breathe. Therefore, if ventilation is required, it must be provided by another method.

### 4.3 C3 - FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE

*TRITOflex* is a water-based product and has no flash point. *TRITOflex* has been tested successfully to ASTM E108 and US FM 4470; therefore when installed and cured it becomes fire resistant; that is it will self-extinguish, and as per NZBC C.3.3 it has a low probability of fire spread to other property vertically or horizontally.

### 4.4 E2 - EXTERNAL MOISTURE

The *TRITOflex* System contributes to the requirements of NZBC E2 relating to the prevention of water penetration, provided the integrity of the specified external system is maintained.

### 4.5 E3 - INTERNAL MOISTURE

The *TRITOflex* System contributes to the requirements of NZBC E3 relating to the resistance of water penetration, provided the integrity of the specified internal system is maintained.

### 4.6 F2- HAZARDOUS BUILDING MATERIALS

In reference to NZBC Clause F2 regarding Hazardous Building Materials, the *TRITOflex* System is non-hazardous provided all safety precautions are adhered to as provided in this manual.

#### 4.7 BUILDING CONSENTS

All applications to a Building Consent Authority for a building consent using the *TRITOflex* Waterproofing System, requires a declaration from the architect/designer/engineer to be submitted with the BC application that their drawings and specifications are as per *TRITOflex's* CODEMARK drawings or are outside of the *Scope of Limitations*. (see 9.7)

### 5 SCOPE & LIMITATION of USES

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#### 5.1 SCOPE OF APPLICATIONS

5.1.1 *TRITOflex* is a MEMBRANE ROOFING RESTORATION system approved for application over the following existing surfaces; EPDM (rubber), PVC, TPO, LAM, METAL, CONCRETE, TAR & GRAVEL, MODIFIED BITUMEN (torch-on) and over *TRITOflex*.

5.1.2 Specifiers requiring additional or other details please contact *TDL* at [info@tritoflex.co.nz](mailto:info@tritoflex.co.nz). Any changes, or additional design work required by a designer outside of *TRITOflex* CodeMark drawings must be declared on form 9.5 (page 24) and submitted to the TA authority when applying for a building consent.

5.1.3 The *TRITOflex* System cannot be applied in wet weather or in temperatures below 10°C although installation can be carried out if the temperature is lower than 10°C but rising when the completed work is exposed to temperatures above 10°C and remain so for 12 hours. *TRITOflex* must not be installed when temperatures are falling; liquid product *TRITOflex* **must** be protected from freezing.

#### 5.2 LIMITATIONS

The *TRITOflex* System must be installed by trained and approved installers as per the details described in this manual to ensure the quality of the system whether for cladding, roofing, below ground waterproof tanking (DPC), or for corrosion protection. The applications for the four requirements are similar but must NOT have their specifications combined for any situation unless first approved in writing by *TDL*.

The *TRITOflex* Waterproofing System is usually applied by spraying, and as for all other sprayed materials, can cause irritation and damage to the eyes, skin and respiratory system. Inhalation of the spray could cause irreversible health damage. Protective clothing, a mask and gloves must be worn at all times when using this product.

When spraying in an environment exposed to the air, or in areas otherwise exposed to the elements, the wearing of approved safety glasses, face mask and protective clothing is also essential.

Protection from over-spray. It is wiser to prevent over-spray than to have to clean up after application. Mask all areas in close proximity to where *TRITOflex* is being installed to protect from over-spray. When *TRITOflex* spray settles it fuses or adheres over time to the surface it contacts, hence the importance of preventing excessive spray use. Note: *TRITOflex* over-spray is easily washed or removed from all surfaces within the first hour after application since it is a water-based product which takes 20 hours to cure to full strength. All aspects of the spraying process must comply with the safety regulations as provided by WorkSafe New Zealand.

*TRITOflex* must be stored on site in sealed drums on the pallets on which they were delivered. All such drums must remain unopened until required for use. Care must be taken to avoid spillage. Do not allow the product to freeze during shipping or storage.



The *TRITOflex* Membrane System must be maintained and inspected annually, to ensure the integrity of the whole system. (Refer to *TRITOflex* Maintenance Schedule in the Warranty)

### 5.3 CONSTRUCTION REQUIREMENTS FOR NEW & EXISTING SUBSTRATES

#### 5.3.1 Concrete slab-deck

Above ground *TRITOflex* can be applied directly to a concrete slab surface for water proofing to provide protection for habitable room/s below the slab. If the membrane is not to be covered or protected by tiles, decking or similar, and is exposed to UVsunlight it must be protected permanently against UV damage with *TRITOtherm*.

#### 5.3.4 Concrete slab preparation/ application

(1) All large gaps, voids or cracks must be filled and flushed off with quick setting smooth finish *TRITOflex* compatible mortar. (2) The entire surface must be cleaned with water-pressure, brushing or air pressure to remove dirt, oils, grease etc. (3) The substrate must be dry before the application starts. (4) First spray the concrete with a thin 0.25mm prime coat of *TRITOflex* without accelerator. If required add *TRITOtape* reinforcing fabric, (5) Apply immediately after *TRITOflex* with accelerator turned on to meet the specified thickness. (6) Every 10m<sup>2</sup> check thickness with mil gauge. (7) Over-spray area where check measurement was taken, if specified thickness has not been reached re-spray until the required thickness is achieved. (8) After the membrane has cured to black, rinse off the dried accelerator. (9) Use *TRITOtrowel* where required, for angles, curbs, pipe penetration, and imperfections. (10) For roofs and decks exposed to the elements apply *TRITOtherm* to a 0.4 mm thick finish, (dry 0.25 mm). (11) After 24 hours apply a second coat of *TRITOtherm* wet 0.4mm. (12) Prevent water from ponding on *TRITOflex/TRITOtherm* for next 48 hours.

#### 5.3.5 *TRITOflex* on concrete slab; UV warning

If *TRITOflex* membrane is left in its black natural condition on concrete exposed to sunlight it will absorb heat into the concrete which will then be stored. This heat will cause any moisture in the concrete to vaporize and rise to the under-surface of the *TRITOflex* membrane. Since the *TRITOflex* is basely impermeable, the heated vaporous gas will cause the membrane to bubble/blister which will spoil its surface. To prevent this largely cosmetic damage, *TRITOtherm* must be applied after the *TRITOflex* has had all dried accelerator washed off it but **within 48 hours** of the *TRITOflex* application when full curing is achieved or installed another type of UV cover like *TRITomat*, artificial grass, timber deck.

#### 5.3.6 Roofing

*TRITOflex* membrane can be installed direct onto new H3 roofing plywood and/or on heavy duty polystyrene insulation glued direct to plywood. The plywood must be installed according to the manufactures specifications. Plywood sheeting is to be installed in a stretcher bond (brick like) pattern (See drawing PDR-14, p75 in this manual).

Existing Roofing: When using over or on existing membranes they MUST first have a Membrane Surveyors Inspection (MSI) completed with a written report prepared. See clause 9.1 for the MSI check list.

#### 5.3.8 Guarantee/warranty

The *TRITOflex* Waterproofing System which is exposed to the elements and has been properly maintained is guaranteed for a minimum period of 15 years (from date of completion) to perform and meet the requirements of NZBC where the substrate and all material components of the membrane system have been prepared and installed in accordance with this manual, its technical specifications, and with the work carried out by an authorized TDL contractor. Warranties are extendable with 5 year inspections and any



maintenance work completed.

## 5.4 CONSTRUCTION GUIDANCE

### 5.4.1 Pre-installation check

Ensure the builder has completed the items set out in there pre-application check list. (See section 9.2 for details) For existing re-roofing work, first obtain the MSI report as per clause 3.4. Carry out all remedy and cleaning work as specified in the report.

## 5.5 EXISTING MEMBRANES

**5.5.1** All existing surfaces must first be inspected by a TDL approved Membrane Surveyor who will prepare a written *Membrane Surveyors Inspection* (MSI) report on the condition of the existing membrane and substrate and state the work required before *TRITOflex* can be applied. If, during this inspection of the substrates it is noted there are potential or existing structural deficiencies, such as weak timber framing under the substrate, a record with photos is to be made to ensure all relevant information can be forwarded to a consultant engineer for an opinion of the area of concern. This may require the consultant engineer to carry out a site inspection to verify the condition of the structure under the substrate.

**5.5.2** All defects in existing substrates are to be repaired as per the MSI report, including loose membrane laps and flashings as required by manufacturer. Similar materials to those existing are to be used or as specified by the membrane supplier or approved by TDL.

**5.5.3** Construction Requirements. All existing metal flashings that are to remain in place must be inspected for water tightness by the TDL applicator. Flashings such as window sill/head-flashings, pressure bars, parapet caps, etc. must be correctly repaired to achieve a fully watertight condition.

**5.5.4** Remove all dirt, debris, loose materials from all surfaces by pressure water wash or as per a *Membrane Surveyor's* report.

**5.5.5** Existing surfaces including *TRITOflex* on to *TRITOflex* (see 9.1.8), must be cleaned with pressure washing equipment to enhance positive adhesion of the *TRITOflex* System in accordance with the manufacturer's specifications prior to the application of an approved primer and/or fluid applied such as the *TRITOadhesive* system. Any unapproved curing compound, form release agents, petroleum distillates, animal fats and other contaminants must not come into contact with the substrate after cleaning. The *TRITOflex* contractor must complete the installation of the *TRITOflex* membrane within two days after cleaning the substrate surface on which it is to be applied.

## 6 NOMINATED COMPONENTS & ACCESSORIES

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*TRITOadhesive*: MCB A20, high strength based adhesive

Sealants: *TRITOseal* or TDL approved.

Vents: Minimum 100x100 mm at 2 metre centers in eave if required to vent an enclosed attic space , or skillion roof, example PC-06, or the Ventilated Ridge as per detail PDR-14.

Tapes: *TDL TRITOtape RF* reinforcing for corners and joins that are subject to stress.

Approved flexible flashing tape (refer to a product that complies with the performance requirements of the NZBC)

Adhesive: PB Nail-bond, 'No more nails' and the like must be NZBC compliant

Flashings: *TDL TRITOtape* sill flashing

Powder coated aluminum head and sill flashing (installed by others)

*TDL TRITOtape* jamb & corner flashing, *TRITOtape* base cap flashing

*TRITOMat*; Rubber mat to cover *TRITOflex* on decks for UV and traffic protection.

UV Coating system:	First Coat:	<i>TRITOtherm</i> .02mm	Notes: * Other textures or colours may be available. For more details refer to the <i>TDL</i> website: <a href="http://www.tritoflex.co.nz">www.tritoflex.co.nz</a> .
	Second: Coat:	<i>TRITOtherm</i> .02mm	
	*Third Coat:	<i>TRITOtherm</i> .02mm	

TRITOflex Drainage: Below ground protection, porous 90mm thick EPS sheeting. EPS Roofing Insulation: E P S must be H Grade or VH Grade with minimum thickness of 60mm.

## 7 TRAINING

### 7.1 TRAINING APPLICATORS

7.1.1 TDL requires every *Certified TRITOflex Applicator* (CTA) who applies *TRITOflex* in NZ to be trained and fully knowledgeable on all specifications, methods of application and the product's limitations.

7.1.2 To become a CTA the applicant must first be an experienced, licensed roofing, waterproofing or building construction trades-person who must then attend a training program on *TRITOflex* which is provided by TDL. The training program includes in-depth classroom instruction on TRITON products, application methods, health & safety, applying over different substrates and existing membranes, and the use and care of the *TRITOflex* spray application equipment. On completion of the classroom course the applicant will then be given on site *TRITOflex* practical installation skills.

7.1.3 On going training: All CTA's must continue training and attend refresher courses as new information, products and methods become available. TDL will advise all CTAs when these are available.

7.1.4 Video library. CTAs have full access on line to TRITON's video internet Library for information on application methods, data sheets and all other materials required on a day to day basis.

7.1.5 CTA Register: TDL will keep a register of all CTAs and this register will be available to the public at all times via the TDL web site [www.tritoflex.co.nz](http://www.tritoflex.co.nz).

### 7.2 TRAINING MEMBRANE SURVEYORS

7.2.1 To become an approved *TRITOflex Membrane Surveyor* (TMS) the applicant must already be either an experienced *Certified Weather-tightness Surveyor* or a *Registered Structural Engineer*, both to have had experience in roofing membranes.

7.2.2 TDL requires every TMS who specifies *TRITOflex* in Australia or New Zealand to be trained and fully knowledgeable on all specifications, methods of application and the limitations of TRITON products.

7.2.3 To apply for training to become a TMS, the applicant must first be an experienced, licensed roofer, waterproofer or building construction specialist. They will then be taught the latest information on *TRITOflex*. Applicants must become familiar with all the different application methods of all TRITON products, and their applications to all substrates and existing membranes.

7.2.4 TDL will supply all relevant and current information required on existing membranes and the preparation work required before *TRITOflex* is applied. After carrying out a thorough inspection a TMS will be expected to be able to prepare specifications for the

different methods of preparation work required before *TRITOflex* can be applied over existing substrates and or membrane.

7.2.5 Ongoing training. All TMS must continue training and ensuring they keep up to date with all new *TRITOflex* information, products and methods as they become available. TDL will advise and supply all TMS as this information becomes available.

7.2.6 TMS Register. TDL keeps a register of all TMS, with it made available to the public at all times via the TDL web site [www.tritoflex.co.nz](http://www.tritoflex.co.nz).

## **8 MAINTENANCE AND WARRANTY**

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### **8.1 MAINTENANCE**

The *TRITOflex* roof and deck membrane needs to be cleaned regularly, at least annually, with a chemical/detergent wash. The entire coated area should be inspected by a *TRITOflex* Approved Applicator to identify any maintenance requirements and ensure on going performance weather tightness. All necessary repairs should be undertaken immediately. For more information refer to the *TRITOflex* Maintenance Schedule available on TDL web site [www.tritoflex.co.nz](http://www.tritoflex.co.nz)

Inspections of the complete cladding surface must be carried out at least annually on the anniversary of the installation. Since timber framing and sheet cladding do not shrink at equal rates during settling and drying, stresses can be transferred to the exterior cladding. It is recommended that for inspections stress joints are noted as they may cause cosmetic wrinkles in the *TRITOflex* System. Any damage to the membrane must be repaired in accordance with the *TRITOflex* manufacturer's instructions (see clause 5.5.5 and 9.1.8) followed by a new coating of *TRITOtherm* UV protection.

As part of the Warranty conditions the UV protective coat(s) of *TRITOtherm* must be re-applied as soon as they are observed to begin to break down. This is expected to occur between years five and seven years. Re-application must be as specified by *TRITOflex* Distributors Ltd. For extreme exposed locations, washing and re-coating may be required more frequently.

Failure to correctly maintain the system may void long term warranties offered with *TRITOflex*.

### **8.2 WARRANTY**

The *TRITOflex* Waterproofing System and associated materials, when installed in accordance with this manual, are guaranteed for a minimum life period of 10 years or more depending on thickness, if finished thickness is 1.5 mm dry then a 15 year warranty is available, if 2 mm thickness, then 20 years is available. (Warranty period starts from date of completion).

### **8.3 EXTENDED WARRANTY**

At the end of the warranty period a new warranty period can be applied for, this will required the *TRITOflex* Waterproofing System to be inspected, any membrane repairs or maintenance items attended to and a new coating of UV protection applied if required. The extended warranty period will be in multiples of 5 years.

***For more on these conditions and details please refer to warranties on the TDL website.***

## 9 CHECKLISTS and WARRANTY APPLICATION FORM

### 9.1 MEMBRANE SURVEYORS CHECK LIST

#### For *TRITOflex* Membrane Surveyors, Structural Engineers, Architects.

The following checklist items are included only as a site guide for the Membrane Surveyor before preparing the written report they prepare which must be made available to the Approved *TRITOflex* Applicator before an application commences.

Specification No.: \_\_\_\_\_ Building Consent #: \_\_\_\_\_ Site address: \_\_\_\_\_  
 Owner: \_\_\_\_\_ Phone: \_\_\_\_\_ email: \_\_\_\_\_  
 Builder: \_\_\_\_\_ Phone: \_\_\_\_\_ email: \_\_\_\_\_  
 Architect: \_\_\_\_\_ Phone: \_\_\_\_\_ email: \_\_\_\_\_  
 Applicator/Co: \_\_\_\_\_ Phone: \_\_\_\_\_ email: \_\_\_\_\_  
 Project Start Date: \_\_\_\_\_ Project Finish Date: \_\_\_\_\_ Area Mz: \_\_\_\_\_  
 Surveyor: \_\_\_\_\_ Territorial Authority \_\_\_\_\_

#### 9.1.1 Concrete, Plaster, Cementitious Substrates

Yes or No	
-----------	--

- |  |                          |                          |
|--|--------------------------|--------------------------|
| - New concrete must be 28 days or more cured and MUST have a moisture meter reading taken. <i>TRITOflex</i> must not be applied to concrete if the moisture content is above 6%. | <input type="checkbox"/> | <input type="checkbox"/> |
| - All dirt, debris, loose materials to be removed from the surface. Specify the method of cleaning to be undertaken.   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Is substrate at ground level, ensure DPC has been installed.   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Existing membrane on substrate must be tested for pull off adhesion  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does substrate require ventilation?  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Appearance - <i>TRITOflex</i> will mirror the substrate. Is the owner aware of this?   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Is the surface very hard or smooth? Will it require etching or leveling?   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Is there plant or fix structure's on this substrate?   | <input type="checkbox"/> | <input type="checkbox"/> |
| - How will <i>TRITOflex</i> be installed under fixtures or fittings? e.g.; heat pumps, water tanks etc. Will they need to be removed?  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Are there cracks or defects in the concrete surface needing repair?  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate have a life expectant of 20 to 50 years?  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Is a structural engineer required to check the substrate life expectancy?  | <input type="checkbox"/> | <input type="checkbox"/> |

#### 9.1.2 Metal/Steel Substrate

Yes or No	
-----------	--

- |   |                          |                          |
|---|--------------------------|--------------------------|
| - Do existing surfaces require pressure washing to clean?   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Once cleaned the <i>TRITOflex</i> process must be completed in 5 days.                                  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does surface need de-scaling ? If so how will this be done?   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Will the surface require a metal primer?  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Will a structural engineer be required to check the substrate?  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Ensure all penetrations, waste pipes and like are flashed to the building using flexible flashing tape. | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require ventilation? If so how will this be done?                                    | <input type="checkbox"/> | <input type="checkbox"/> |

### 9.1.3 Wood Substrate

Yes or No

- |  |                          |                          |
|--|--------------------------|--------------------------|
| - Is the substrate structurally sound to meet the NZBC requirements?     | <input type="checkbox"/> | <input type="checkbox"/> |
| - Will a structural engineer be required to check the substrate?         | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require repairs or additional mechanical fixing?    | <input type="checkbox"/> | <input type="checkbox"/> |
| - If yes, how will this be done? .....                                   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require cleaning?                                   | <input type="checkbox"/> | <input type="checkbox"/> |
| - If so what method of cleaning will be used? .....                      | <input type="checkbox"/> | <input type="checkbox"/> |
| - Has the substrate the required minimum slope/fall as per NZBC E2/AS1 ? | <input type="checkbox"/> | <input type="checkbox"/> |
| - If not what is to be specified to ensure runoff drainage? .....        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does this substrate require ventilation?                               | <input type="checkbox"/> | <input type="checkbox"/> |
| - If yes, how will this be done? .....                                   | <input type="checkbox"/> | <input type="checkbox"/> |

### 9.1.4 Brick, Stone, Slate, Tiles Substrate

Yes or No

- |   |                          |                          |
|---|--------------------------|--------------------------|
| - Is the substrate structurally sound?                                | <input type="checkbox"/> | <input type="checkbox"/> |
| - Will a structural engineer be required to check the substrate?      | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require repairs or additional mechanical fixing? | <input type="checkbox"/> | <input type="checkbox"/> |
| - If yes, how will this be done? .....                                | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require cleaning?                                | <input type="checkbox"/> | <input type="checkbox"/> |
| - If so what method of cleaning will be used? .....                   | <input type="checkbox"/> | <input type="checkbox"/> |

### 9.1.5 Asphalt or Bituminous Membrane

Yes or No

- |   |                          |                          |
|---|--------------------------|--------------------------|
| - Is the substrate structurally sound?                                | <input type="checkbox"/> | <input type="checkbox"/> |
| - Will a structural engineer be required to check the substrate?      | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require repairs or additional mechanical fixing? | <input type="checkbox"/> | <input type="checkbox"/> |
| - If yes, how will this be done? .....                                | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require cleaning?                                | <input type="checkbox"/> | <input type="checkbox"/> |
| - If so what method of cleaning will be used? .....                   | <input type="checkbox"/> | <input type="checkbox"/> |

### 9.1.6 EPDM, TPO, PVC or RUBBER Membranes

Yes or No

- |   |                          |                          |
|---|--------------------------|--------------------------|
| - Is the substrate structurally sound?  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Will a structural engineer be required to check the substrate?                  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check if there is any de-lamination from the parent substrates                  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require repairs or additional mechanical fixing?             | <input type="checkbox"/> | <input type="checkbox"/> |
| - Specify how any repairs are to be undertaken                                    | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require cleaning?  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Specify method and type of cleaning required                                    | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check the substrate has the required minimum slope/fall as per NZBC E2/AS1      | <input type="checkbox"/> | <input type="checkbox"/> |
| - Specify any work to ensure runoff will be available if required                 | <input type="checkbox"/> | <input type="checkbox"/> |
| - Will a primer or adhesive be required between existing & new <i>TRITOflex</i> ? | <input type="checkbox"/> | <input type="checkbox"/> |
| - Specify what products/adhesive are to be used if required                       | <input type="checkbox"/> | <input type="checkbox"/> |

### 9.1.7 LAM (Liquid Applied Membranes) i.e. Paint

Yes or No

- |  |                          |                          |
|--|--------------------------|--------------------------|
| - Do existing surfaces require pressure washing to clean them?           | <input type="checkbox"/> | <input type="checkbox"/> |
| - Once cleaned the <i>TRITOflex</i> process must be completed in 5 days. | <input type="checkbox"/> | <input type="checkbox"/> |
| - Is the substrate structurally sound?                                   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require repairs?                                    | <input type="checkbox"/> | <input type="checkbox"/> |
| - If yes, how will this be done? .....                                   | <input type="checkbox"/> | <input type="checkbox"/> |

Yes or No

- |   |                          |                          |
|---|--------------------------|--------------------------|
| - Is the substrate structurally sound?                                | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does the substrate require repairs or additional mechanical fixing? | <input type="checkbox"/> | <input type="checkbox"/> |
| - If yes, how will this be done? .....                                | <input type="checkbox"/> | <input type="checkbox"/> |
| - Does substrate require cleaning?                                    | <input type="checkbox"/> | <input type="checkbox"/> |
| - If so what method of cleaning will be used? .....                   | <input type="checkbox"/> | <input type="checkbox"/> |

[illegible]

**Signature:** \_\_\_\_\_

## 9.2 BUILDERS PRE-INSTALLATION CHECK LIST

### For builders, approved installers and building inspectors

Bld/Consent No: \_\_\_\_\_

Commence Date: \_\_\_\_\_

Client \_\_\_\_\_ phone: \_\_\_\_\_

Builder: \_\_\_\_\_ phone: \_\_\_\_\_

Architect: \_\_\_\_\_ phone: \_\_\_\_\_

**Owner/Builder: If TRITOflex membrane is installed over an existing membrane, roof or deck, the existing surface/substructure must be inspected and a written report prepared by an approved by TDL Membrane Surveyor before installation.**

#### Concrete slab preparation

Yes or No
-----------

- |  |                          |                          |
|--|--------------------------|--------------------------|
| - Existing surfaces must be pressure washed to a high degree of cleanliness. All contaminants, fats, petroleum products and similar must not come in Contact with the cleaned substrate surface. Once cleaned the waterproofing Process must be completed in 5 days.                       | <input type="checkbox"/> | <input type="checkbox"/> |
| - Remove all dirt, debris and loose materials from the surface of the substrate.   | <input type="checkbox"/> | <input type="checkbox"/> |
| - If at ground level, ensure the DPC has been installed to prevent any ground moisture rising up through the slab.   | <input type="checkbox"/> | <input type="checkbox"/> |
| - <u>Slab Moisture Content</u> : A moisture meter reading MUST be taken and recorded. TRITOflex cannot be applied to a concrete slab if the moisture content is above 8%. <i>Record moisture reading here: .....% Date:.....</i>   | <input type="checkbox"/> | <input type="checkbox"/> |
| - If moisture reading is above 10% then an approved moisture barrier MUST be applied and cured before TRITOflex is applied. <b>Vapour barrier installed ?</b>  | <input type="checkbox"/> | <input type="checkbox"/> |
| - If a vapour barrier has been installed to stop moisture rising up through the slab, there MUST be another way for moisture to escape.  | <input type="checkbox"/> | <input type="checkbox"/> |
| - The finished condition or appearance of the substrate must be approved by the building owner or representative before the TRITOflex membrane is applied. Any unevenness will remain visible as the TRITOflex membrane will not conceal defects or other visible errors in the substrate. | <input type="checkbox"/> | <input type="checkbox"/> |
| - Ensure the surface of any rebated slab is smooth and level.  | <input type="checkbox"/> | <input type="checkbox"/> |

#### Roof Framing

Yes or No
-----------

- |   |                          |                          |
|---|--------------------------|--------------------------|
| - All rafters straight and purlins installed ready for ply?   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Rafters straightened before the ply substrate is installed?   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Is parapet framing for corners installed to correct height with one stud both sides of corner ready for substrate fixing? | <input type="checkbox"/> | <input type="checkbox"/> |



**Windows (sky)**

Yes or No

- Window distance from framing – 5 mm from outside of roof framing to inside flange of windows.

☐ ☐

**Joinery**

Yes or No

- All joinery must be set into openings with correct clearance as per the approved site drawings. Install timber trim around all window & door openings to finish flush with the exterior of the roofing.
- The builder is also responsible for the application of an approved flexible flashing tape around openings and all other penetrations prior to the installation of any joinery.

☐ ☐

☐ ☐

**Plumbing**

Yes or No

- All plumbing including gas lines needs to be pressure tested prior to installation of internal and external linings.

☐ ☐

**Variables/ Concerns/ Comments:**

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**Builder/ Owner: Signature:**

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**9.3 TRITOflex PRE-APPLICATION QUALITY ASSURANCE CHECKLIST**

Specification No.: \_\_\_\_\_ Building Consent No. \_\_\_\_\_

Site Address: \_\_\_\_\_ Area: \_\_\_\_\_

Owner: \_\_\_\_\_ Phone: \_\_\_\_\_

Builder: \_\_\_\_\_ Phone: \_\_\_\_\_

Architect: \_\_\_\_\_ Phone: \_\_\_\_\_

Applicator/Co: \_\_\_\_\_ Phone: \_\_\_\_\_ Project Start Date: \_\_\_\_\_

Project Finish Date: \_\_\_\_\_ Area Mz: \_\_\_\_\_ Rep: \_\_\_\_\_

**WALL PRE INSTALLATION**

**YES NO**

**COMMENTS**

TRITOflex TECHNICAL and Roof/Deck INSTALLATION MANUAL V19-2015

Has building paper been installed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	.....
Flashing tape used at all edges, laps and openings?	<input type="checkbox"/>	<input type="checkbox"/>	.....
Penetration flashed?	<input type="checkbox"/>	<input type="checkbox"/>	.....
Windows head flashing installed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	.....
Has a gap been left for windows flashing?	<input type="checkbox"/>	<input type="checkbox"/>	.....
Is the base of cladding 50mm below the bottom plate?	<input type="checkbox"/>	<input type="checkbox"/>	.....
Is there ground clearance for foot flashings ?	<input type="checkbox"/>	<input type="checkbox"/>	.....
All ground clearance meets building requirements?	<input type="checkbox"/>	<input type="checkbox"/>	.....
Is wall framing within tolerance?	<input type="checkbox"/>	<input type="checkbox"/>	.....
Control joints installed where specified?	<input type="checkbox"/>	<input type="checkbox"/>	.....
Have photos of pre-TRITOflex been taken?	<input type="checkbox"/>	<input type="checkbox"/>	.....

Framing type: \_\_\_\_\_ Moisture content: \_\_\_\_\_ %

Builders Signature: \_\_\_\_\_ Territorial Authorities Signature: \_\_\_\_\_

**SYSTEM TO BE APPLIED :**

**SUBSTRATE:**

1st coat: _____ Primer, Date _____	2nd coat: _____ TRITOflex. _____
3rd coat: _____ TRITOtrowel _____	4th coat: _____ TRITOtherm _____
5th coat: _____ TRITOtherm _____	or if Mat: _____ TRITOMat _____
Type of Batten used: cavity-bat: <input type="checkbox"/> Polystyrene <input type="checkbox"/> other, please state: _____	

**APPLICATORS CHECKLIST**

**YES NO**

**COMMENTS**

Battens installed correctly	<input type="checkbox"/>	<input type="checkbox"/>	.....
Flashings installed correctly	<input type="checkbox"/>	<input type="checkbox"/>	.....
Moisture Content check and OK	<input type="checkbox"/>	<input type="checkbox"/>	.....
Control joint installed where specified	<input type="checkbox"/>	<input type="checkbox"/>	.....
Color specified with UV restrictions	<input type="checkbox"/>	<input type="checkbox"/>	.....

Application Method: Pump ☐ Trowel ☐ Roller ☐ Spray ☐

Texture Type: \_\_\_\_\_ THERM/Color \_\_\_\_\_ LRV % \_\_\_\_\_

TRITOflex Applicator: \_\_\_\_\_ Phone: \_\_\_\_\_ Rep: \_\_\_\_\_

**TYPE OF WARRANTY REQUIRED**

Ten Years over Solid Substrate <input type="checkbox"/>	Fifteen year renewable <input type="checkbox"/>
Twenty Years over Solid Substrate <input type="checkbox"/>	Twenty year renewable <input type="checkbox"/>
Product Producer Statement only <input type="checkbox"/>	other: Please state: _____

TRITOflex Applicator: _____	Signed: _____
UV Applicator: _____	Signed: _____
TFA License # _____	Signed: _____

#### **9.4 TRITOflex WARRANTY APPLICATION QUALITY ASSURANCE CHECKLIST** **Roof & Deck Warranty Submittal Instructions & Forms**

*To obtain a Tritoflex Distributors Ltd issued TRITOflex Fluid-Applied Roofing and Decking Membrane Warranty, the Certified Tritoflex Applicator must complete the following:*

##### **PRIOR TO PROJECT APPLICATION**

Submit a Tritoflex Distributors Ltd (TDL). **Project Registration Form**, along with a plan drawing, photos, and any other supporting specifications or special details before ordering materials or at least two weeks before job start-up for technical review. TDL will promptly review the information and return a copy of the registration form indicating approval or the need for additional information before granting installation approval.

##### **UPON PROJECT COMPLETION**

Submit a Certified Tritoflex Applicator **Project Warranty Request Form** completed, signed, and sent to TDL. This form indicates that the project is ready for final inspection and/or review by TDL. Receipt of this form is required before a final review will be conducted.

A TDL TRITOflex Fluid-Applied Roof or Decking warranty will be issued upon the successful completion of TDL's project inspection and review process and payment in full of all outstanding material invoices and warranty fees.

NOTE: TDL reserves the right to withhold or suspend the warranty on any project that is not installed in accordance with Triton Inc & TDL recommendations, application guidelines, specifications, and details. The warranty may also be withheld or suspended under the following conditions, in addition to any specific limitations or exclusions of the warranty:

1. Any use of unauthorized (non-certified) personnel, non-approved tools, materials, or techniques, in conjunction with the application of TDL products, unless specifically agreed to in writing by TDL.
2. The membrane sustains damage that TDL is not promptly alerted to, and/or damage occurs that is not repaired by a Certified TDL Applicator.
3. Repairs/additions to the structure affecting the TRITOflex membrane system are undertaken without alerting TDL and /or without using a Certified TDL Applicator.
4. The party named on the Warranty no longer owns the structure. TDL warranties are only transferable when a specific request is made and TDL performs an inspection of the roof to determine any necessary non-warranty repairs that may be needed and the owner pays a transfer processing fee as per TDLs schedule of fees.
5. The use of the structure changes. TDL may approve retaining the Warranty, even if the use changes, provided that TDL is notified and agrees in writing before the intended change, and any provisions required by TDL to reflect the changes in use are met.
6. Any projects started or completed before obtaining a TDL project registration approval and receipt of a signed Completion Certificate verifying completion of all required items may not be eligible for a TDL warranty.

## 9.5 Tritoflex Distributors Ltd. PROJECT REGISTRATION FORM

DATE: \_\_\_\_\_ TDL AUTHORISATION (internal use only)

APPROVED BY: \_\_\_\_\_ PROJECT REF.: \_\_\_\_\_

### SECTION A: CONTACT INFORMATION

Project Name:		Phase/Section:	
Address:		City/Post Code:	
Owner:		Phone:	
Address:		City/Post code:	
Email:			
Certified Applicator:		Phone:	
Address:		City/Post code:	
Email:			
Main. Contractor:		Phone:	
Address:		City/Post code:	
Email:			
Specifier/Architect:		Phone:	
Address:		City/Post Code:	
Email:			

### SECTION B: WARRANTY ATTRIBUTES

Initial Warranty Period (Check One):	<input type="checkbox"/> 10-years <input type="checkbox"/> 15-years <input type="checkbox"/> Other (noted below)
Warranty Terms or Conditions:	The finished thickness of the TRITOflex will determined the warranty period available
Special Warranty Terms or Conditions:	

<input type="checkbox"/> Restoration to New <input type="checkbox"/> Tear-off/Removal <input type="checkbox"/> New Construction			
If Restoration to new, list existing membrane:			
If New Construction, list substrate and age:			
Was moisture scan performed (include details):			
Building use description:			
<b>Project Square metre s Information</b>			
Area Description	Substrate Installing Over	Additional Information	Area m <sup>2</sup>
NOTE: It is the responsibility of the applicator to calculate the square metreage of the project. The warranty charge will be based on the project size verified during the final warranty review. Warranty charges are the responsibility of the applicator. Therefore, TDL will invoice the applicator for these charges unless otherwise arranged.			

Please be advised that this specific project application form is for TRITOflex fluid-applied applications only.

Please refer to appropriate warranty registration form for other TRITOflex waterproofing applications.

**Certified TDL Applicators' trained technical personnel are required to spray TRITOflex on all jobs.**

**SECTION C: PROJECT INFORMATION**

<b>TRITOFLEX MEMBRANE</b> <input type="checkbox"/> 1.5mm (2.2mm wet) <input type="checkbox"/> 2.0mm (3mm wet) <input type="checkbox"/> 2.5mm (3.8 mm wet)		
<b>TOP COAT (required 0.5mm dry total*)</b> <input type="checkbox"/> TRITOtherm <input type="checkbox"/> TRITOWalk <input type="checkbox"/> TRITOMat *must be applied in two coats	<b>PRIMER*</b> <input type="checkbox"/> TRITOPrime <input type="checkbox"/> None <input type="checkbox"/> EPDM Adhesive *TRITOPrime must be used for all asphaltic surfaces,	
<b>LIST ANY REPAIRS REQUIRED TO EXISTING SUBSTRATE – PRE-INSTALLATION:</b>  		
<b>REQUIRED PHOTOS (minimum):</b>		
<b>Before</b> <input type="checkbox"/> All field areas <input type="checkbox"/> HVAC and other roof-top units <input type="checkbox"/> Pipe and vent penetrations <input type="checkbox"/> Drains <input type="checkbox"/> Parapet walls <input type="checkbox"/> All corners <input type="checkbox"/> Any damage in existing system <input type="checkbox"/> Failed seams, edges, etc. <input type="checkbox"/> Outside of building from ground <input type="checkbox"/> Core cuts (if required/needed) <input type="checkbox"/> Areas requiring repair before Tritoflex application	<b>During</b> <input type="checkbox"/> All field areas after pressure wash <input type="checkbox"/> Areas masked and taped off <input type="checkbox"/> All field areas after priming <input type="checkbox"/> All field areas after Tritoflex <input type="checkbox"/> All transitions, curbs, penetrations, walls, etc. after Tritoflex <input type="checkbox"/> Mil gauge reading w/Tritoflex to confirm wet mil thickness <input type="checkbox"/> All drains after Tritoflex & Tritotrowel <input type="checkbox"/> All areas after Tritotrowel <input type="checkbox"/> Equipment set-up area <input type="checkbox"/> All areas after first coat of Tritotherm	<b>After</b> <input type="checkbox"/> All field areas <input type="checkbox"/> HVAC and roof-top units <input type="checkbox"/> Pipe and vent penetrations <input type="checkbox"/> Drains <input type="checkbox"/> Parapet walls <input type="checkbox"/> All corners <input type="checkbox"/> Previously damaged areas <input type="checkbox"/> Close-up of previous imperfections in existing system
<b>COMMENTS/NOTES:</b>  		

**SECTION D: SYSTEM APPLICATION DETAILS**

<b>WIND DESIGN: NZS 3604</b> <input type="checkbox"/> None <input type="checkbox"/> L = 33m/s <input type="checkbox"/> M = 37m/s <input type="checkbox"/> H = 44m/s <input type="checkbox"/> VH = 44m/s <input type="checkbox"/> EH = 55m/s			
<b>FIRE RESISTANCE:</b> <input type="checkbox"/> None <input type="checkbox"/> Class A <input type="checkbox"/> Class B <input type="checkbox"/> Other: _____			
<b>TOP COAT:</b> <input type="checkbox"/> White <input type="checkbox"/> Colour <input type="checkbox"/> If Tinted <input type="checkbox"/> Other: _____			
<b>SPECIFICATIONS ATTACHED:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>DETAIL DRAWINGS ATTACHED:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>COMMENTS/NOTES:</b>  			

**SECTION E: SYSTEM DESIGN REQUIREMENTS****SECTION F:**

I certify this roofing/ decking; waterproofing application will be installed by a crew trained and capable of satisfying TDL's current standard guide specifications, details, and quality control requirements. By signing this form or submitting this form electronically you agree that the Triton system will be installed in compliance with Triton's most current published details, specifications, and application guides.

Authorised Officer Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Company Name: \_\_\_\_\_

**Certified TDL Applicators' trained technical personnel are required to spray TRITOflex on all jobs.**



## 9.6

**COMPLETED PROJECT WARRANTY REQUEST****SECTION A: PROJECT INFORMATION**

Project Name:		Date Completed:	
Address:		City/Post Code:	

**SECTION B: APPLICATOR INFORMATION**

Applicator Name:		Phone:	
Address:		City/Post Code:	
Email:			
Certified TRITOflex Spray Techs Used:			

**SECTION C: REQUIRED SUBMISSIONS**

- ☐ Before, During, & After Photos (listed in Project Registration Form)
- ☐ Signed & Approved Project Registration Form that was submitted prior to job start
- ☐ Final inspection reports from consultant, architect, engineer, or general contractor (if used by client)
- ☐ All outstanding materials paid in full (Note: warranty fees should be paid in full for the warranty to be in effect)

By submitting this form, we verify the TRITOflex Fluid-Applied Roofing system was installed on the stated project in compliance with Triton Incorporated's most current published specifications, drawings, and application guides unless otherwise authorized with proper documentation.

Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

(When completed, Print Page 4, sign scan, then email all 4 pages to TDL, [warranties@tritoflex.co.nz](mailto:warranties@tritoflex.co.nz))

**9.7 TRITOflex BUILDING CONSENT T.A. COMPLIANCE DECLARATION**

**DETAILS OF SCOPE OF COMPLIANCE- CODEMARK BCS-130315-CMNZ**

DATE: \_\_\_\_\_ CONSENT# \_\_\_\_\_

**OWNER/APPLICANT:-----**

**ARCHITECT/DESIGNER/ENGINEER:-----**

CONSENT ADDRESS: \_\_\_\_\_

RELEVANT CLAUSES COVERED BY THE CODEMARK CERTIFICATE: **B1.3.2, B2.3.1 (a), E2.3.2 and F2.3.1.**

**DETAILS OF SCOPE OF COMPLIANCE WITH THE SPECIFIED PERFORMANCE CLAUSES-**

**PERFORMANCE CLAUSE APPLICABLE PART(S) OF THE PRODUCT**

B1.3.2 1. TRITOflex Waterproofing Systems as per the technical and installation manual version 16;

B2.3.1(a). (b) & (c) 1. TRITOflex Waterproofing Systems as per the technical and installation manual version 16;

E2.3.2 1. TRITOflex Waterproofing Systems as per the technical and installation manual version 16;

F2.3.1 1. TRITOflex Waterproofing Systems as per the technical information supplied.

---

DETAILS THAT ARE OUTSIDE THE SCOPE AND LIMITATIONS of THE CODEMARK CERTIFICATE: YES /NO

LIST OF DETAILS ATTACHED:

LIST OF DETAILS-

---

YES /NO

---

OR SEE ATTACHED DRAWINGS AND DETAILS

---

Signed by the Consent Applicant



**10 CONSTRUCTION AND GUIDENCE DETAIL DRAWINGS****23 - 66****Index of all roof/deck drawings****10.1 CONCRETE DECK / ROOF**

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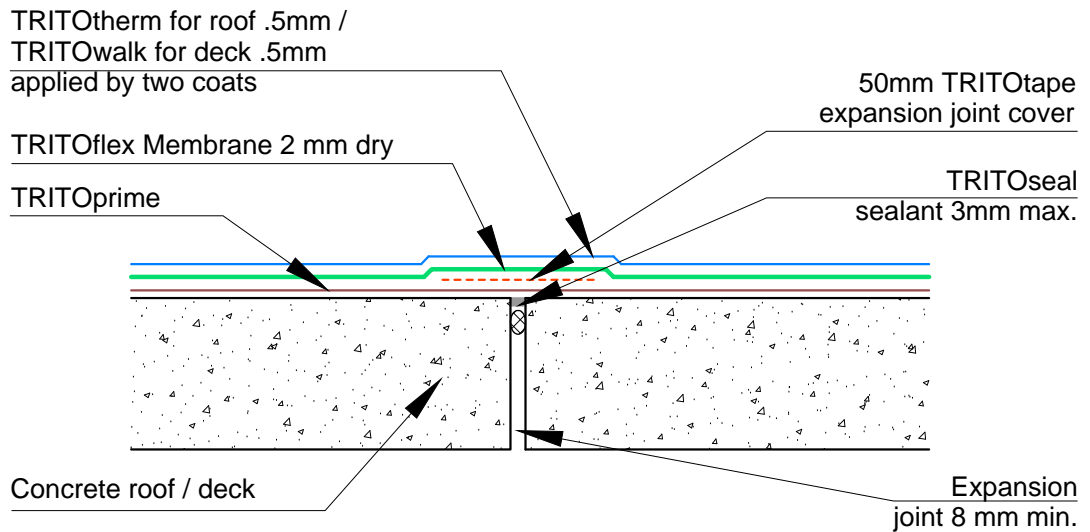
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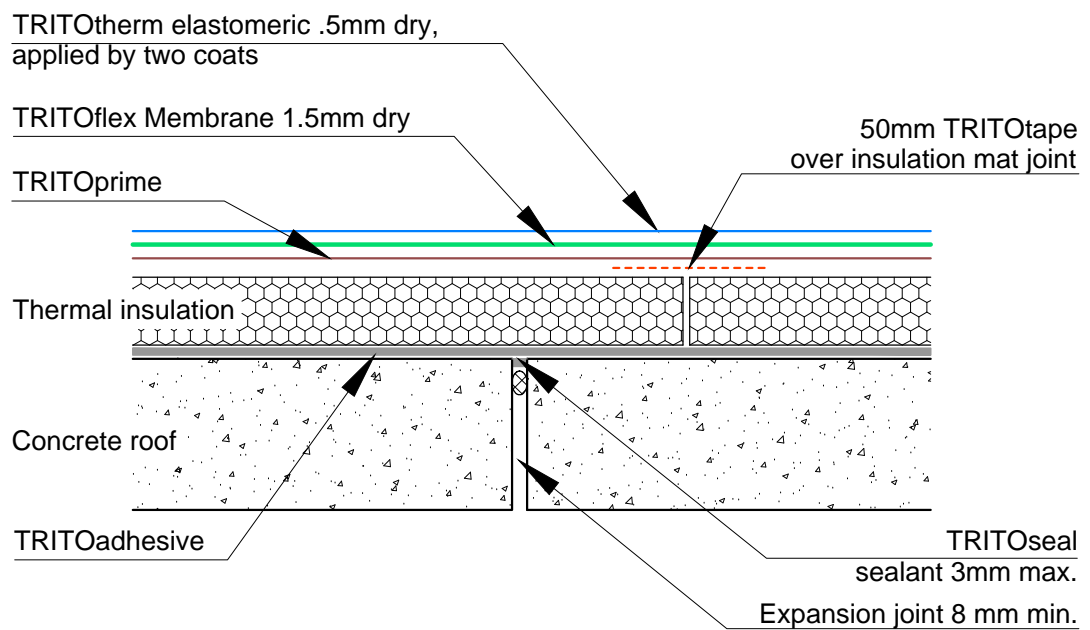
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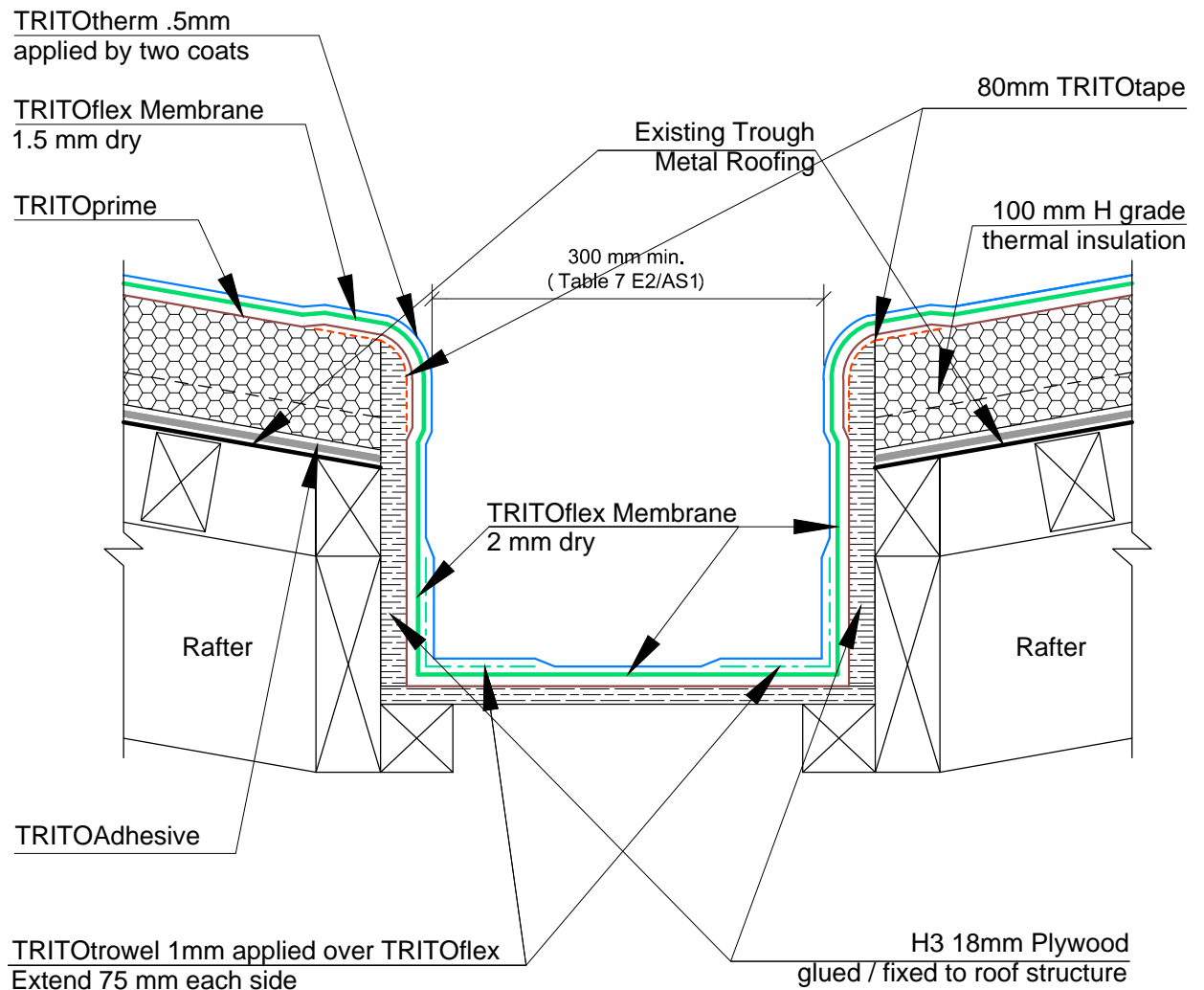
CROSS SECTION



CROSS SECTION

STRUCTURE AND SUBSTRATE BY OTHERS

 <p>www.tritoflex.co.nz</p>	Concrete Deck / Roof	Detail Number
	Concrete Roof to Deck Expansion Joint.	CDR-01
	Concrete Roof Expansion Joint (Insulated).	CDR-02



CROSS SECTION

### STRUCTURE BY OTHERS

Note: Internal gutter shall be sized to suit the roof catchment area, but shall be no less than shown in the figure as specified on E2/ AS 1 Figure 52, Paragraph 8.4.16.3



www.tritoflex.co.nz

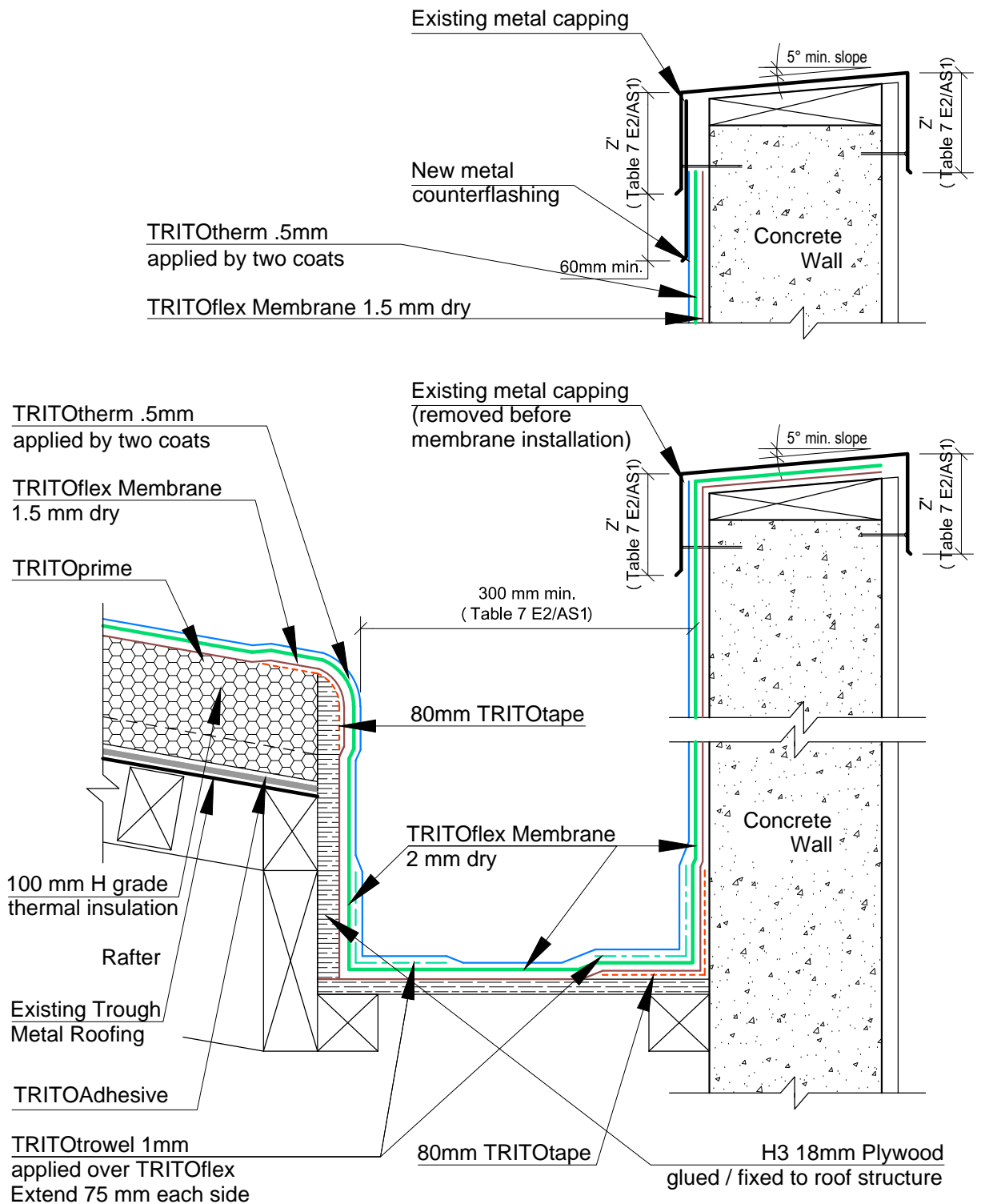
### Metal Roof Exterior Insulation

### Central Gutter Detail

Detail Number

MR-I-01





## CROSS SECTION

### STRUCTURE BY OTHERS

Note: Internal gutter shall be sized to suit the roof catchment area, but shall be no less than shown in the figure as specified on E2/ AS 1 Figure 52, Paragraph 8.4.16.3



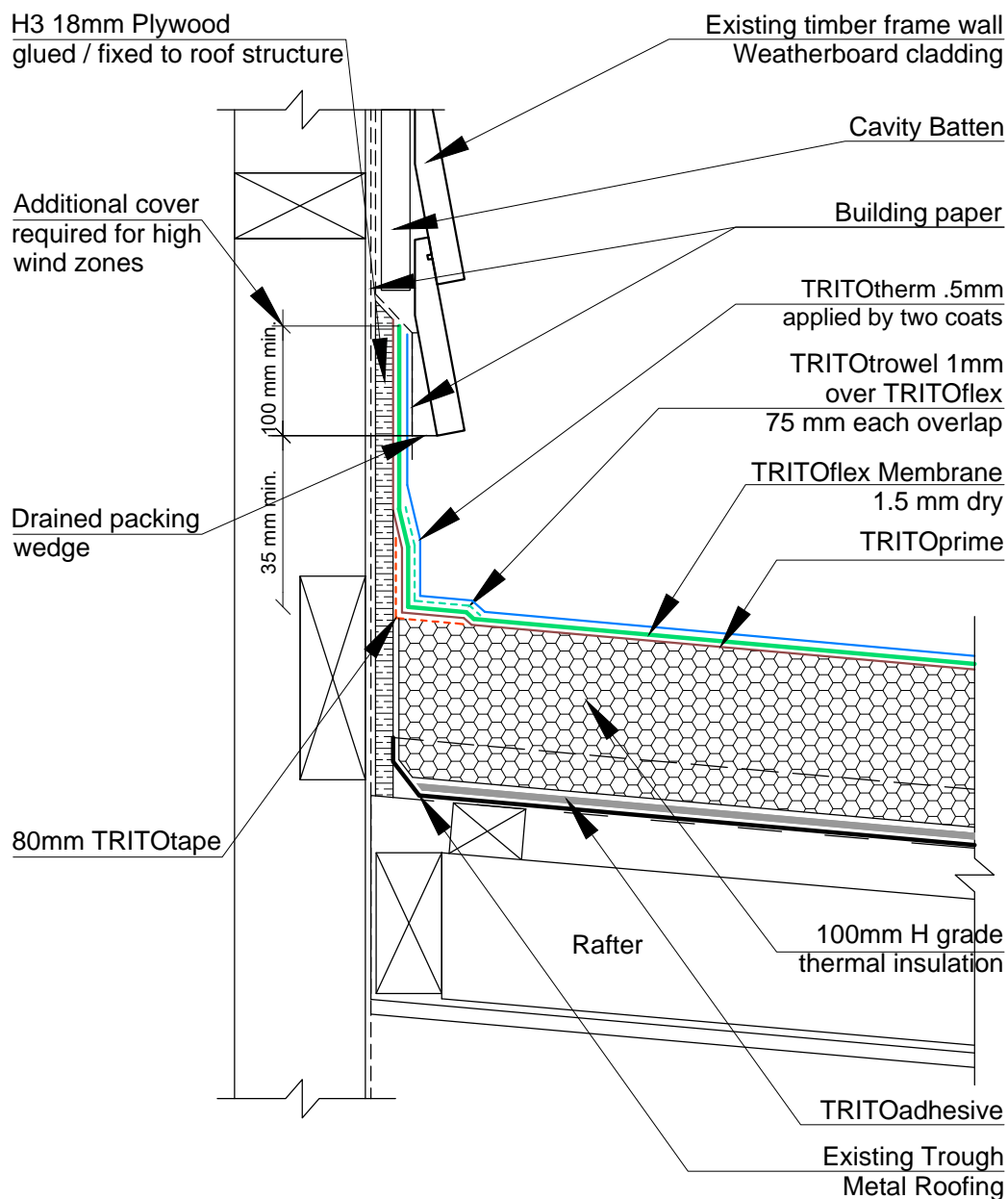
[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

### Metal Roof Exterior Insulation

### Edge Gutter to Parapet Detail 2 (Concrete Wall)

Detail Number

MR-I-03



CROSS SECTION

#### STRUCTURE BY OTHERS

Note: All membrane upstand and flashing shall be no less than shown in the figure as specified on E2/ AS 1 Table 7 and Paragraph 8.4.16.3



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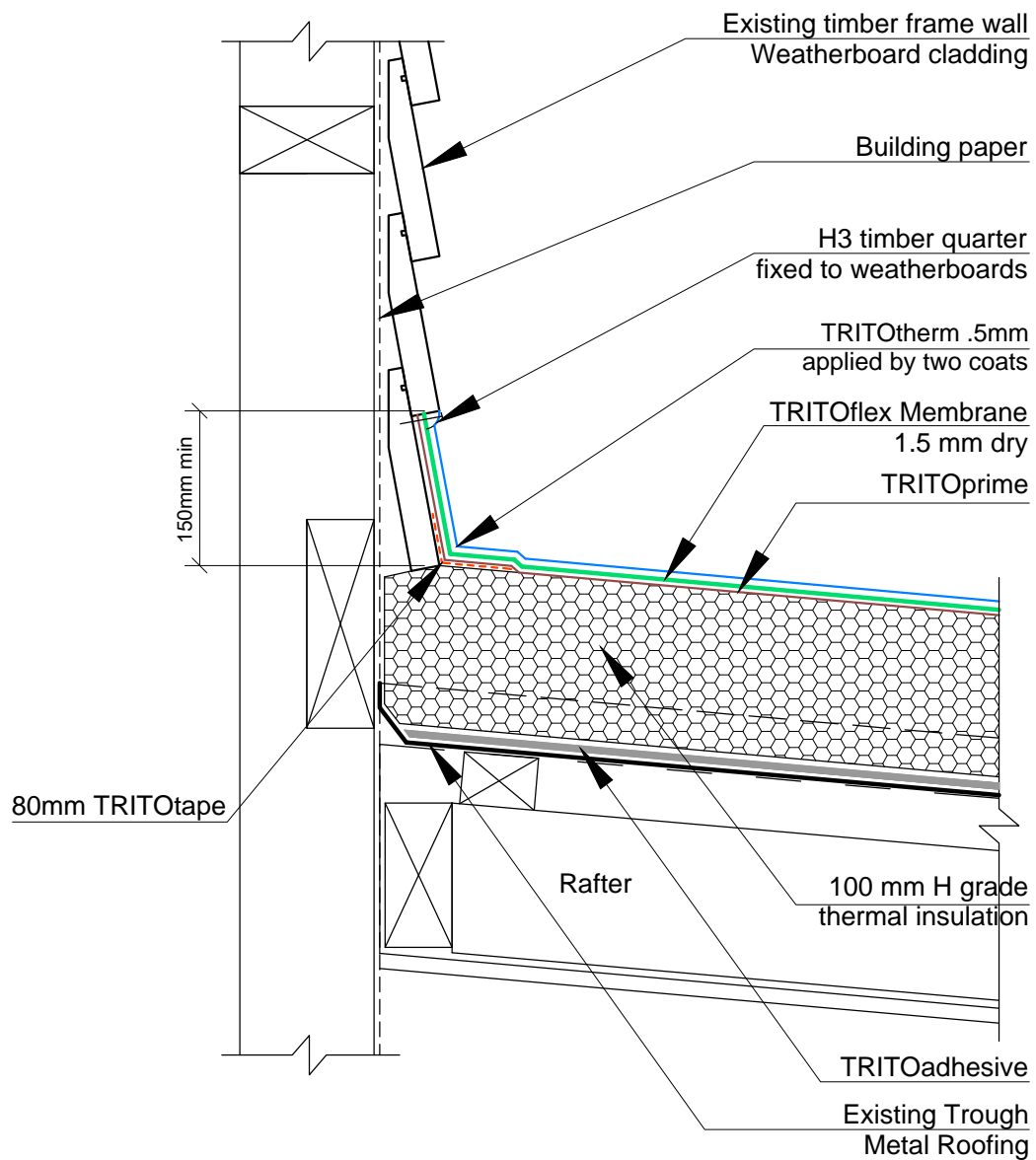
#### Metal Roof Exterior Insulation

Timber Frame Wall to  
Roof Junction Detail 1

Detail Number

MR-I-04





**CROSS SECTION**

**STRUCTURE BY OTHERS**

Note: All membrane upstand and flashing shall be no less than shown in the figure as specified on E2/ AS 1 Table 7 and Paragraph 8.4.16.3



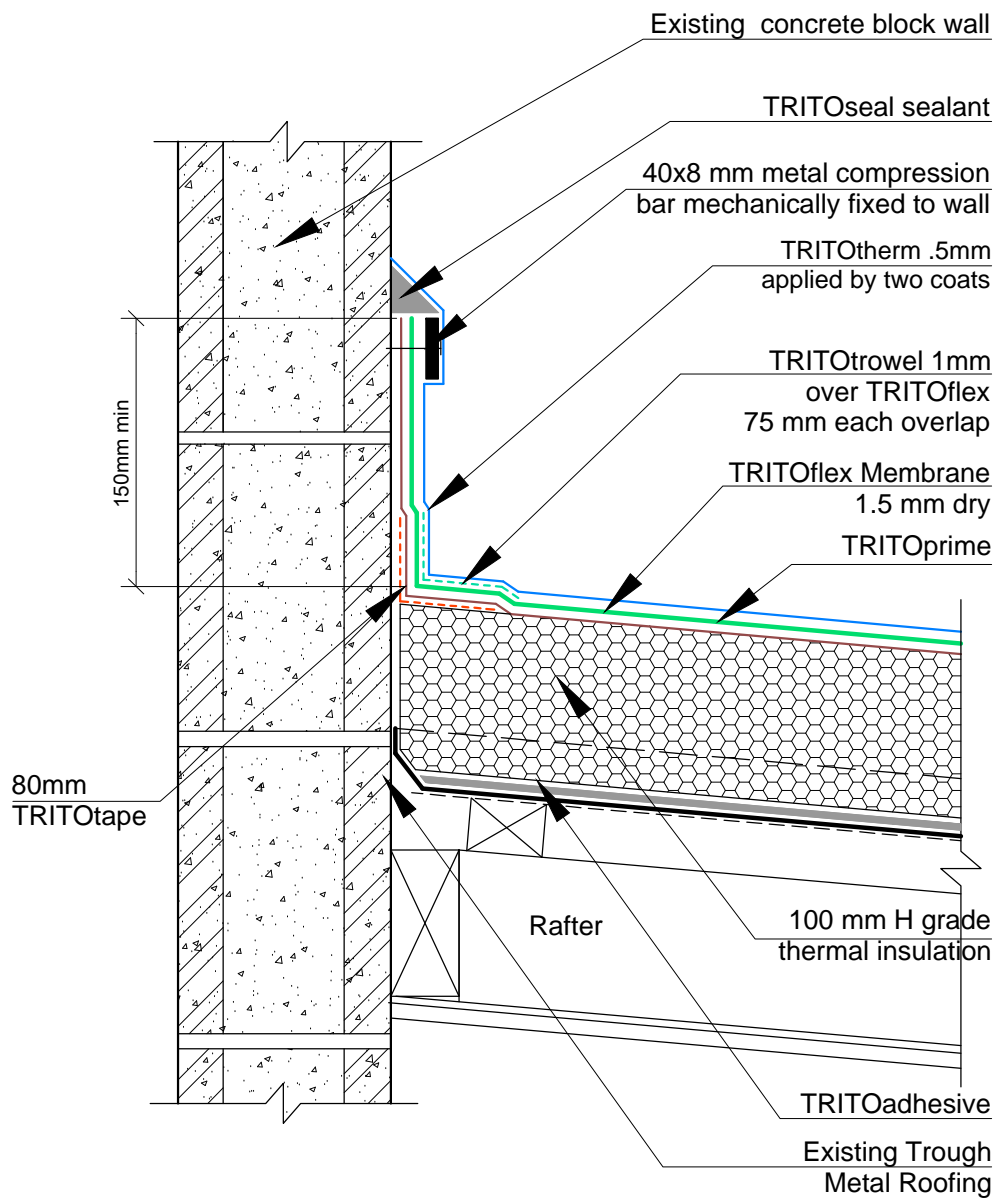
[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

**Metal Roof Exterior Insulation**

**Timber Frame Wall to  
Roof Junction Detail 2**

**Detail Number**

**MR-I-05**



CROSS SECTION

#### STRUCTURE BY OTHERS

Note: All membrane upstand and flashing shall be no less than shown in the figure as specified on E2/ AS 1 Table 7 and Paragraph 8.4.16.3



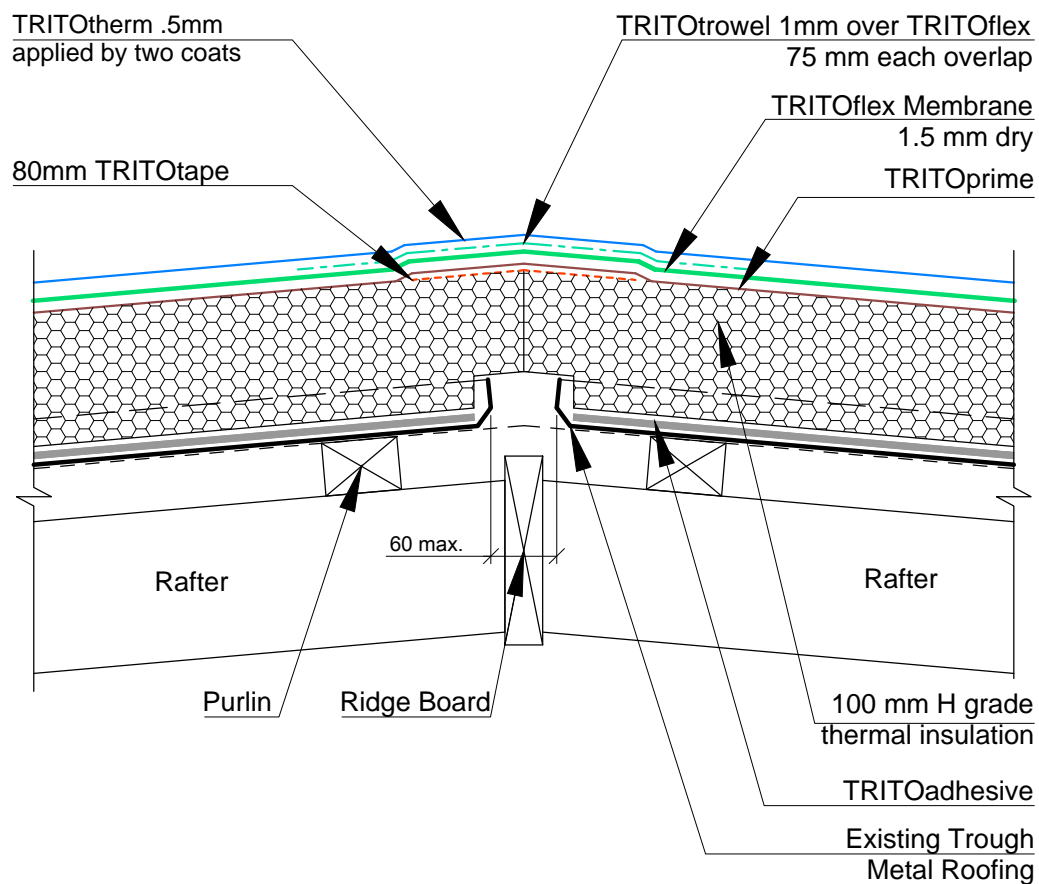
www.tritoflex.co.nz

#### Metal Roof Exterior Insulation

Concrete Block Wall to  
Roof Junction Detail

Detail Number

MR-I-06



CROSS SECTION

### STRUCTURE BY OTHERS

Note: Depending on roof type, ventilation may be required.



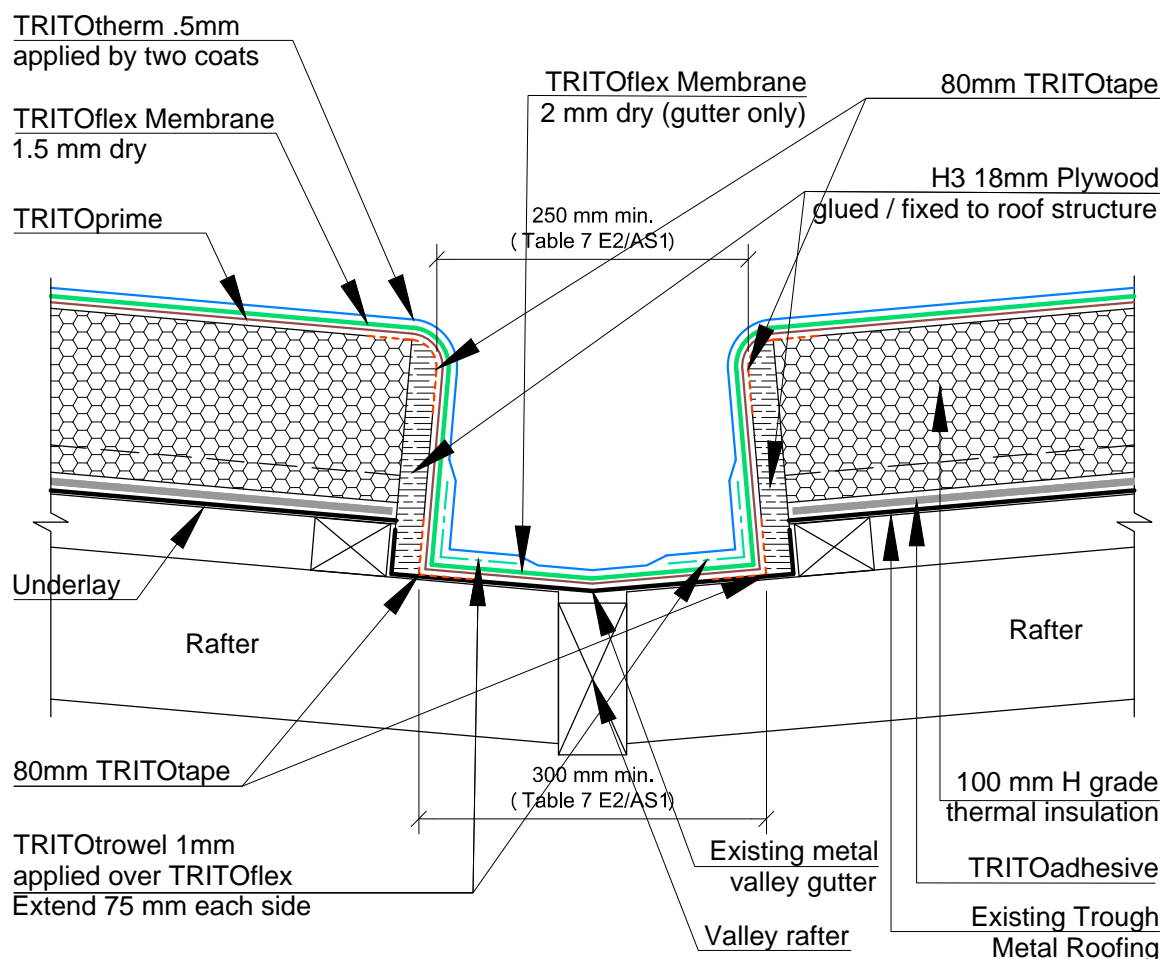
[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

### Metal Roof Exterior Insulation

### Ridge Detail

Detail Number

MR-I-07



CROSS SECTION

### STRUCTURE BY OTHERS

Note: Internal gutter shall be sized to suit the roof catchment area, but shall be no less than shown in the figure as specified on E2/ AS 1 Figure 52, Paragraph 8.4.16.3



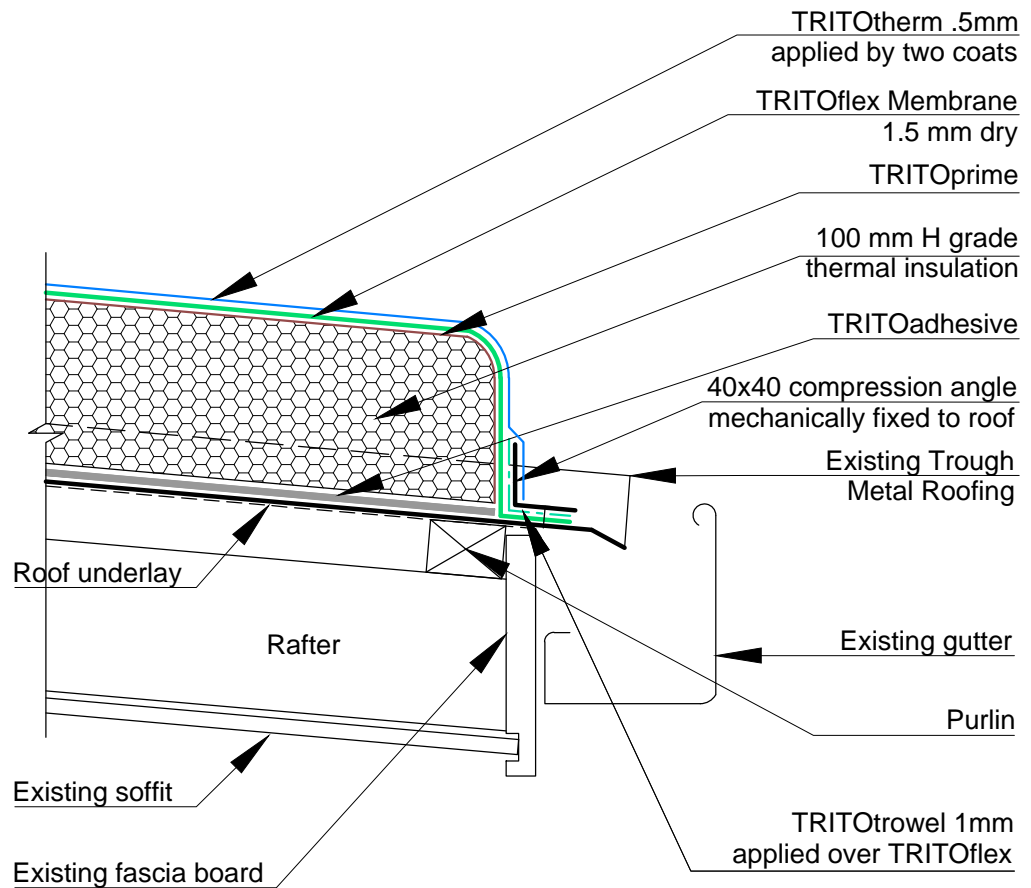
[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

### Metal Roof Exterior Insulation

### Valley Detail


Detail Number

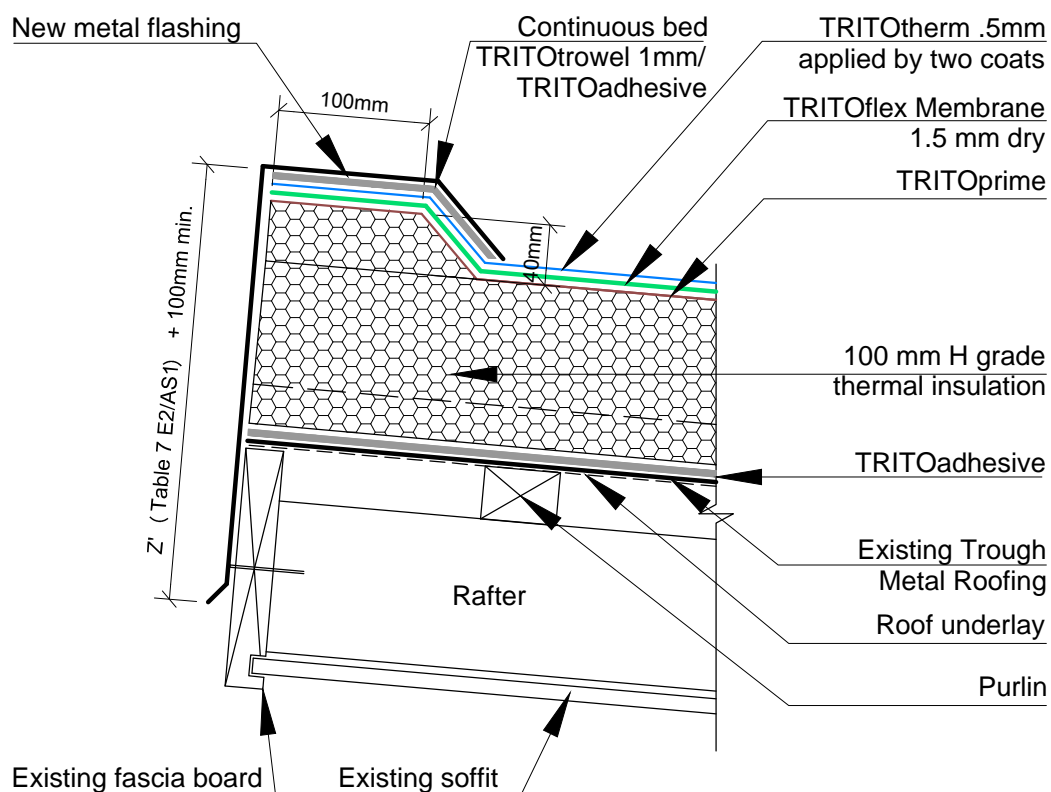
MR-I-08



CROSS SECTION


STRUCTURE BY OTHERS

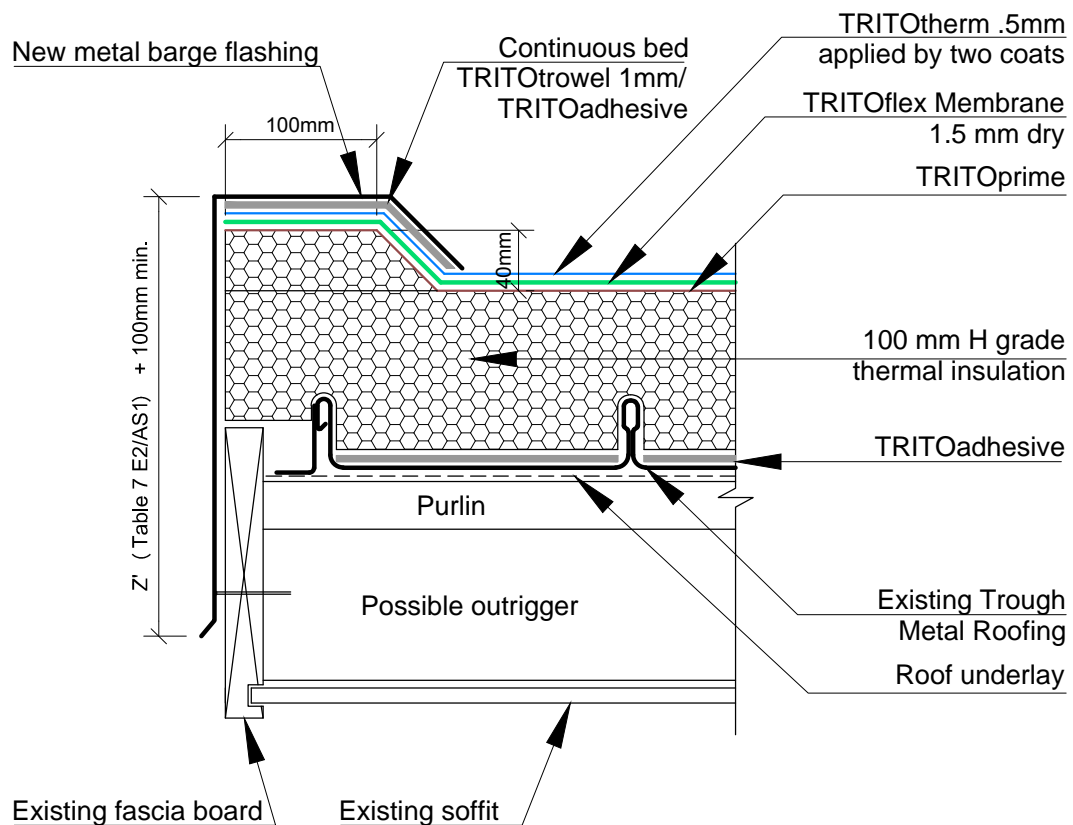
 <p><b>TRITOflex</b> Distributors Limited</p> <p>www.tritoflex.co.nz</p>	<p><b>Metal Roof Exterior Insulation</b></p> <p>Eave Detail 1</p>	<p>Detail Number</p> <p>MR-I-09</p>
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CROSS SECTION

# STRUCTURE BY OTHERS

 <p><b>TRITOflex</b> Distributors Limited</p> <p>www.tritoflex.co.nz</p>	<p><b>Metal Roof Exterior Insulation</b></p> <p><b>Eave Detail 2</b></p>	<p>Detail Number</p> <p><b>MR-I-10</b></p>
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CROSS SECTION

## STRUCTURE BY OTHERS



[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

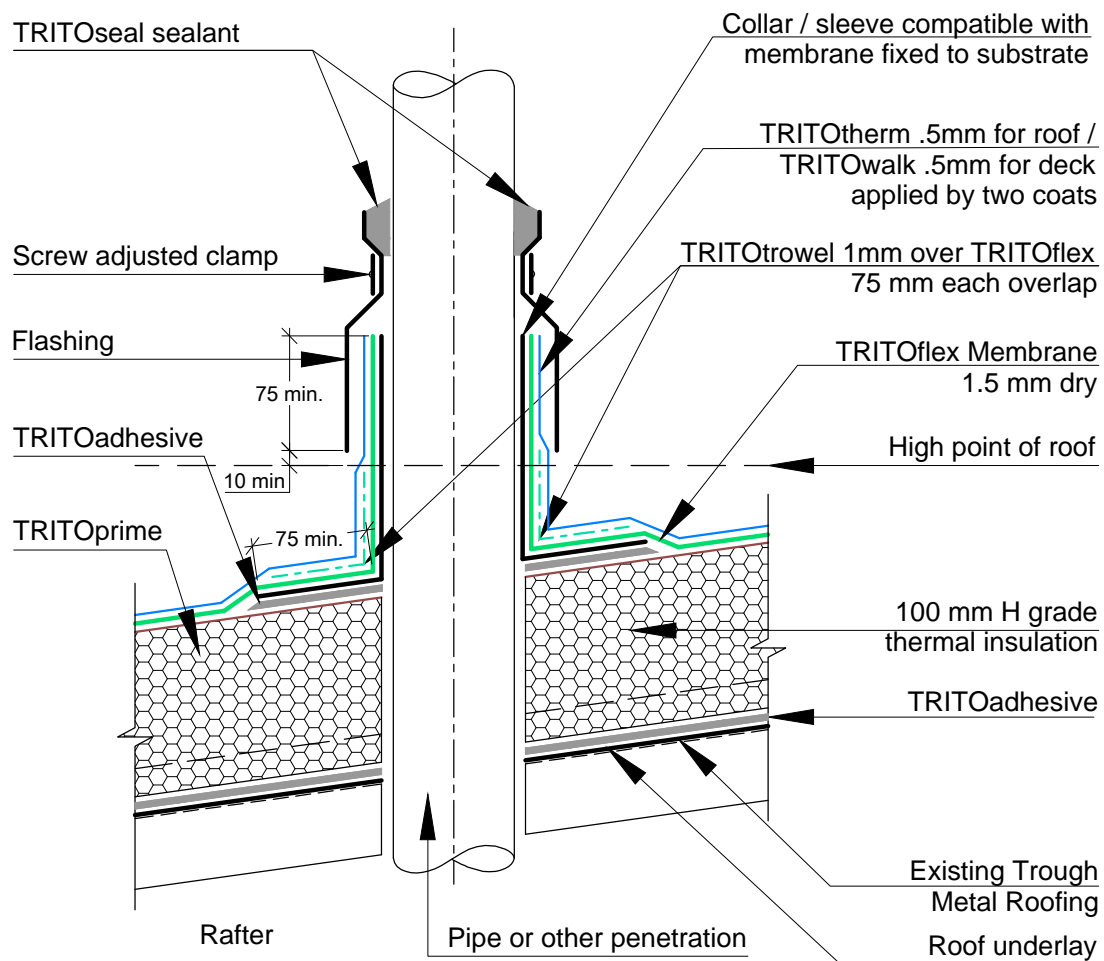
### Metal Roof Exterior Insulation

### Barge Detail

Detail Number


MR-I-11

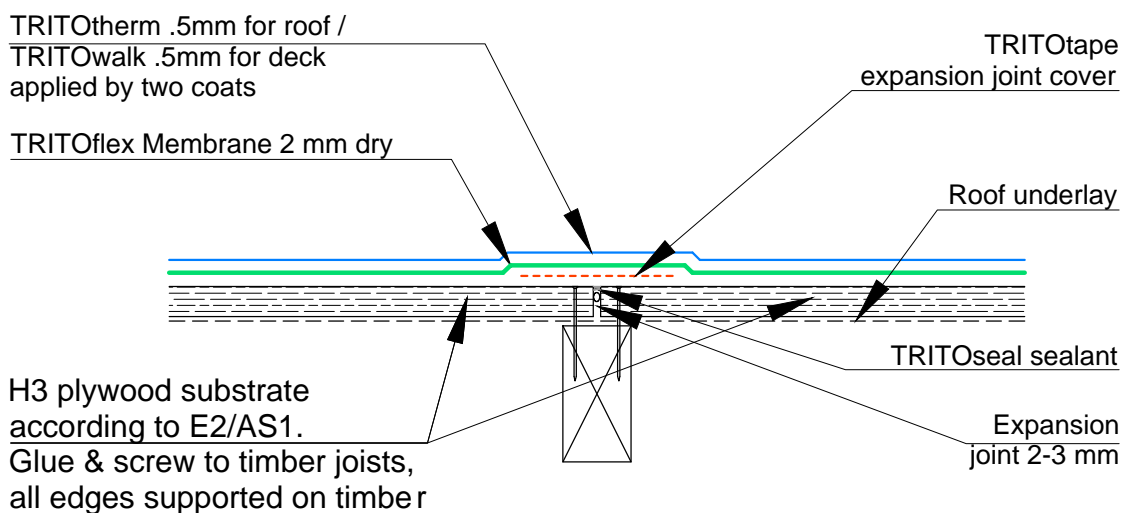




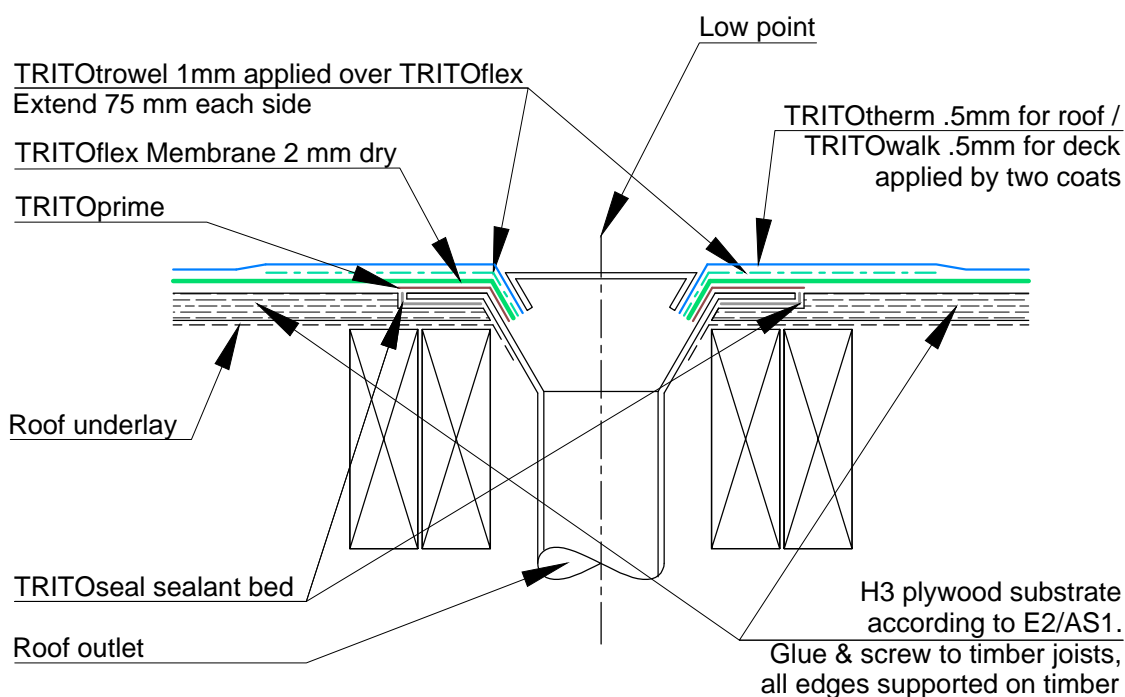
CROSS SECTION

# STRUCTURE BY OTHERS

 <p><b>TRITOflex</b> INSTANT-SET LIQUID RUBBER Distributors Limited</p> <p>www.tritoflex.co.nz</p>	<p><b>Metal Roof Exterior Insulation</b></p> <p>Pipe Penetration Detail (Standard Penetration)</p>	<p>Detail Number</p> <p>MR-I-12</p>
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CROSS SECTION



CROSS SECTION

### STRUCTURE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.



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#### Plywood Deck / Roof

Plywood Expansion Joint Detail.

Waste Outlet Detail.

Detail Number

PDR-01

PDR-02

[illegible]

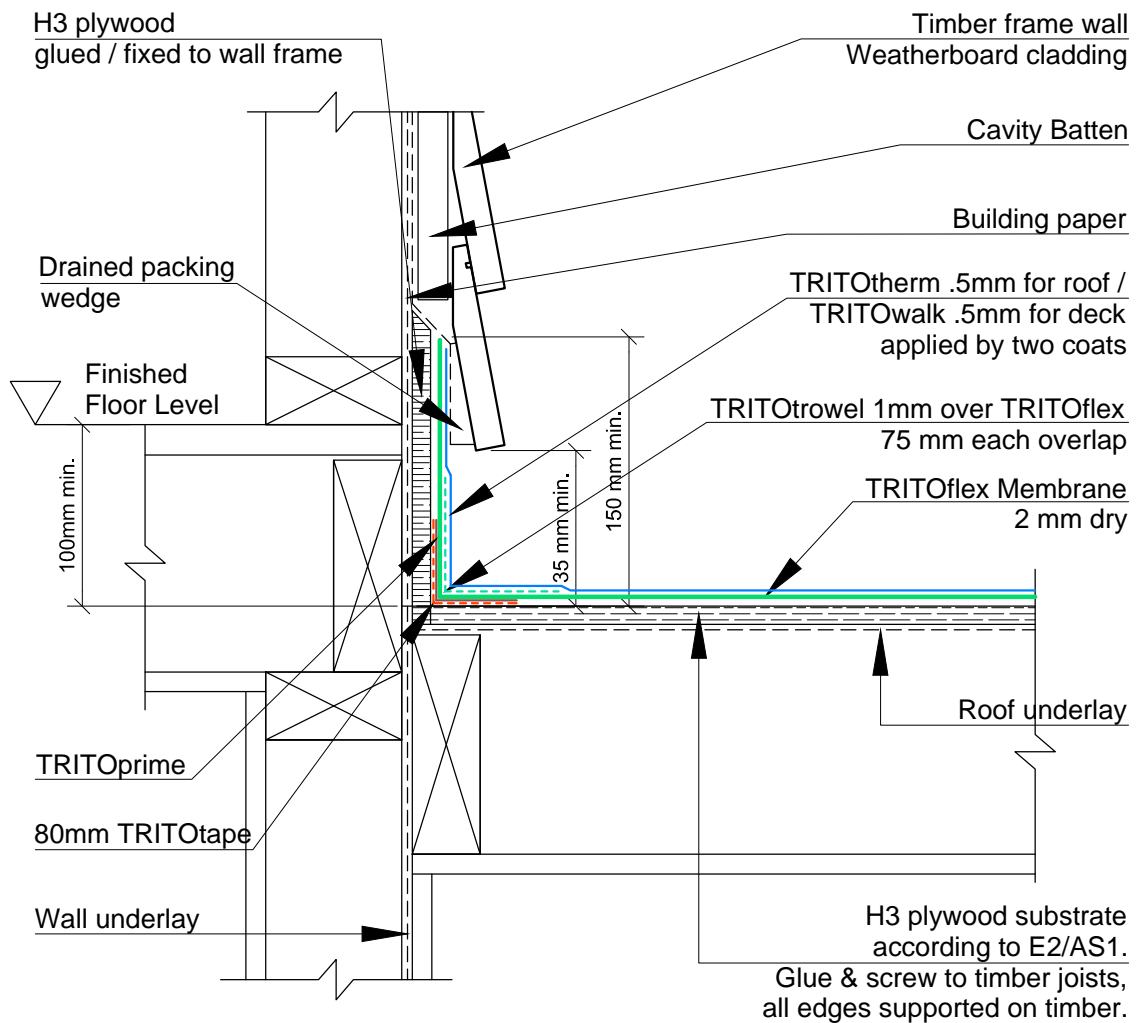
Note: Internal gutter shall be sized to suit the roof catchment area, but shall be no less than shown in the figure as specified on E2/ AS 1 Figure 52, Paragraph 8.4.16.3

39

[illegible]

Note: Internal gutter shall be sized to suit the roof catchment area, but shall be no less than shown in the figure as specified on E2/ AS 1 Figure 52, Paragraph 8.4.16.3





CROSS SECTION

### STRUCTURE AND SUBSTRATE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.



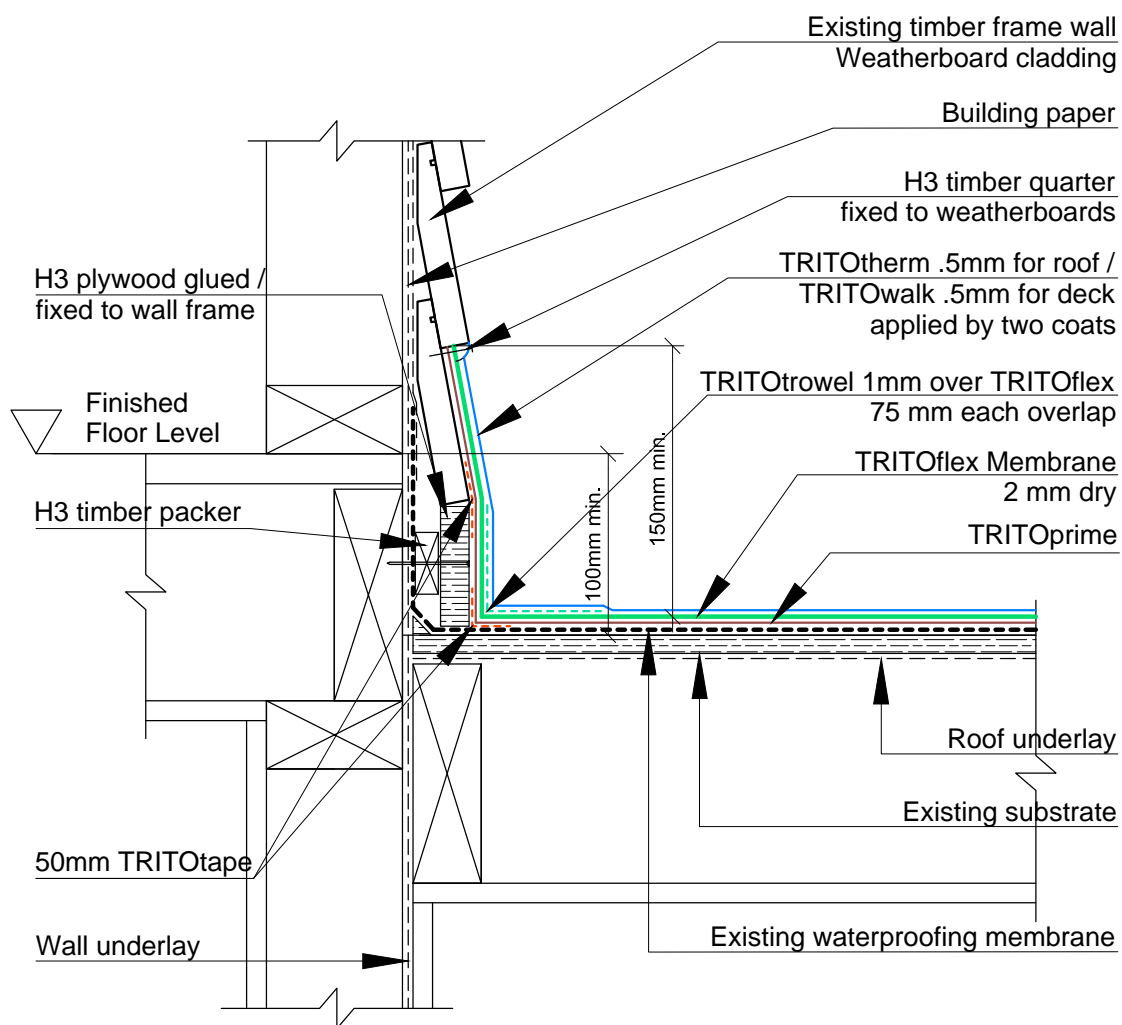
[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

### Plywood Deck / Roof

### Timber Frame Wall to Deck Junction Detail 1

Detail Number

PDR-05



CROSS SECTION

#### STRUCTURE AND SUBSTRATE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.



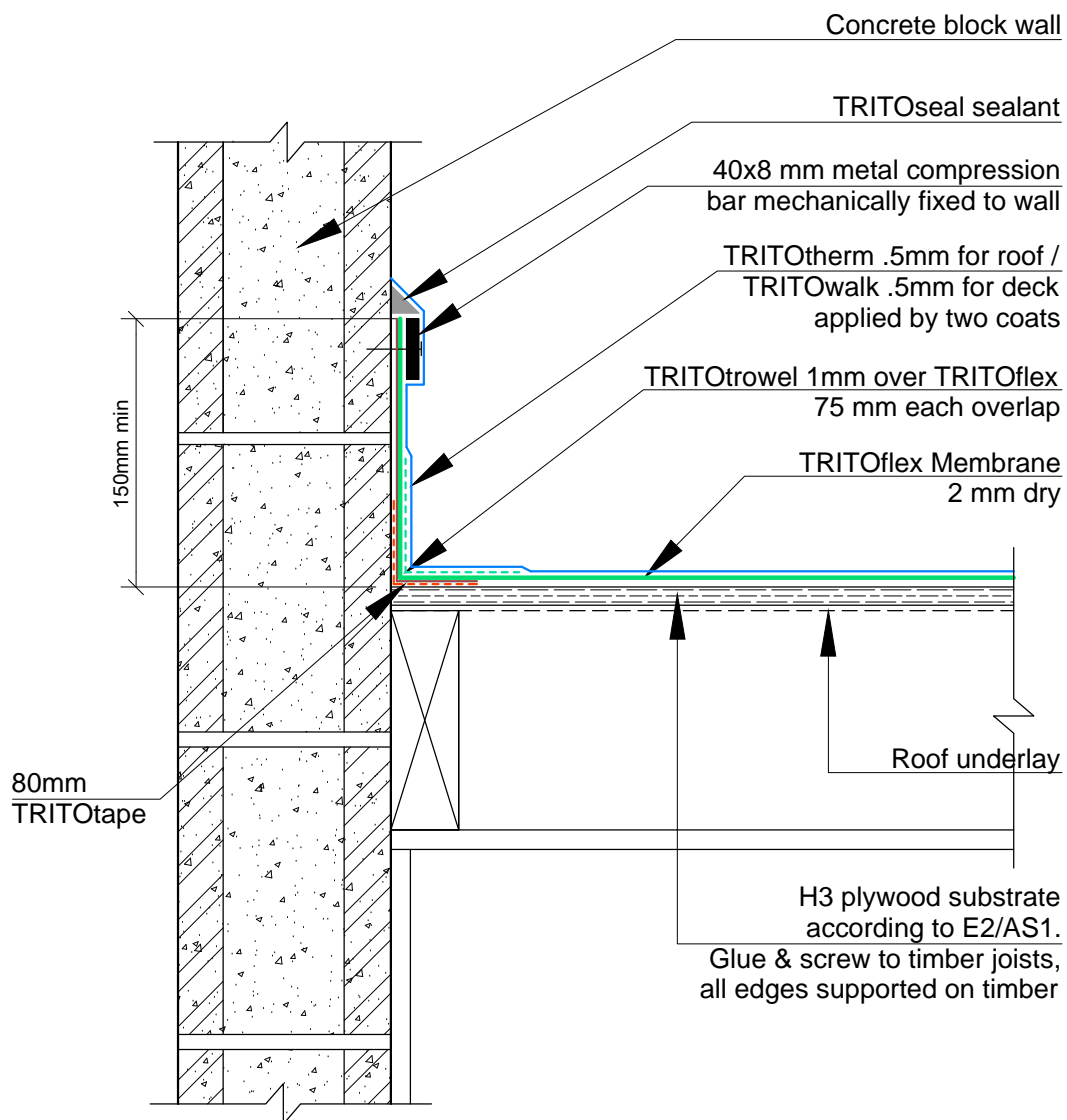
[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

#### Plywood Deck / Roof

#### Timber Frame Wall to Deck Junction Detail 2

Detail Number

PDR-06



CROSS SECTION

#### STRUCTURE AND SUBSTRATE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.



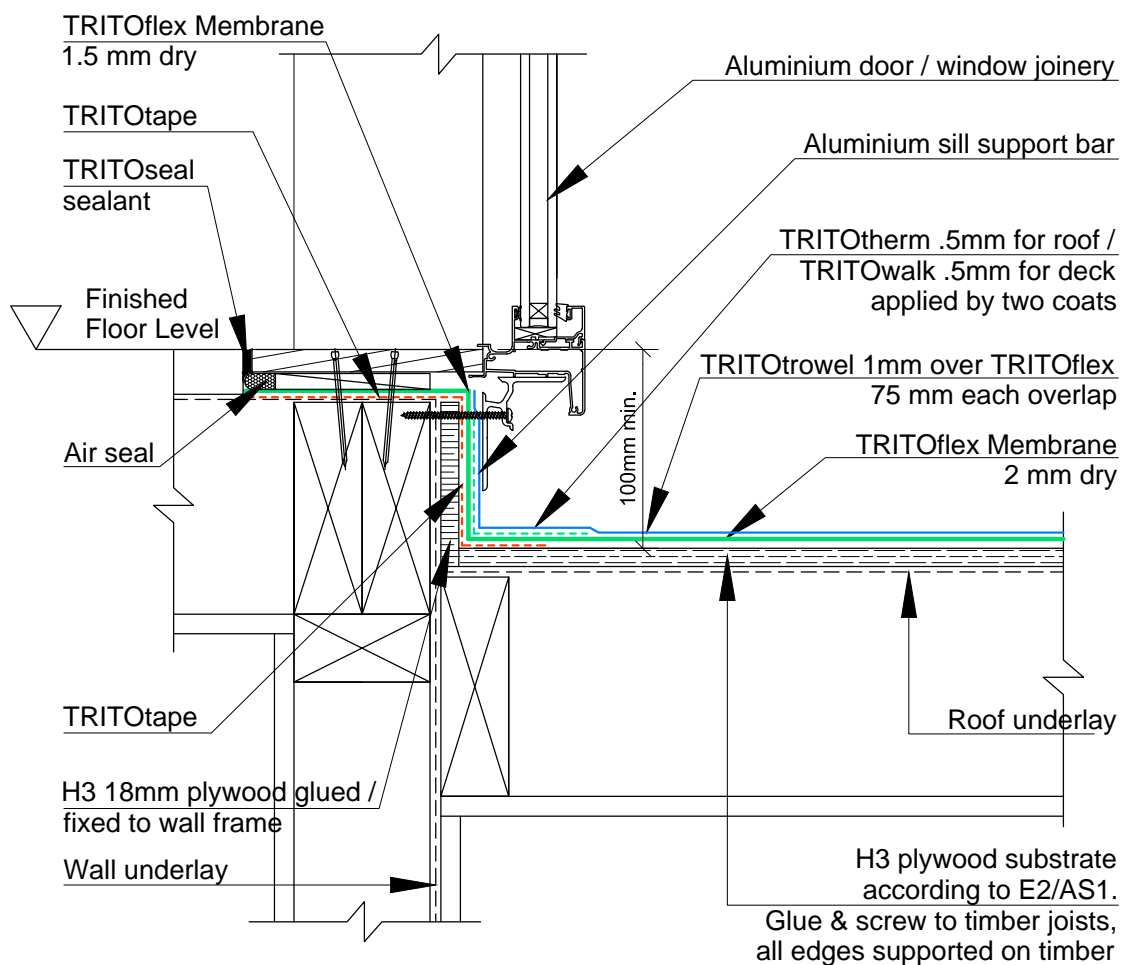
[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

#### Plywood Deck / Roof

Concrete Block Wall to  
Deck Junction Detail 3

Detail Number

PDR-07



CROSS SECTION

#### STRUCTURE AND SUBSTRATE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.



[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

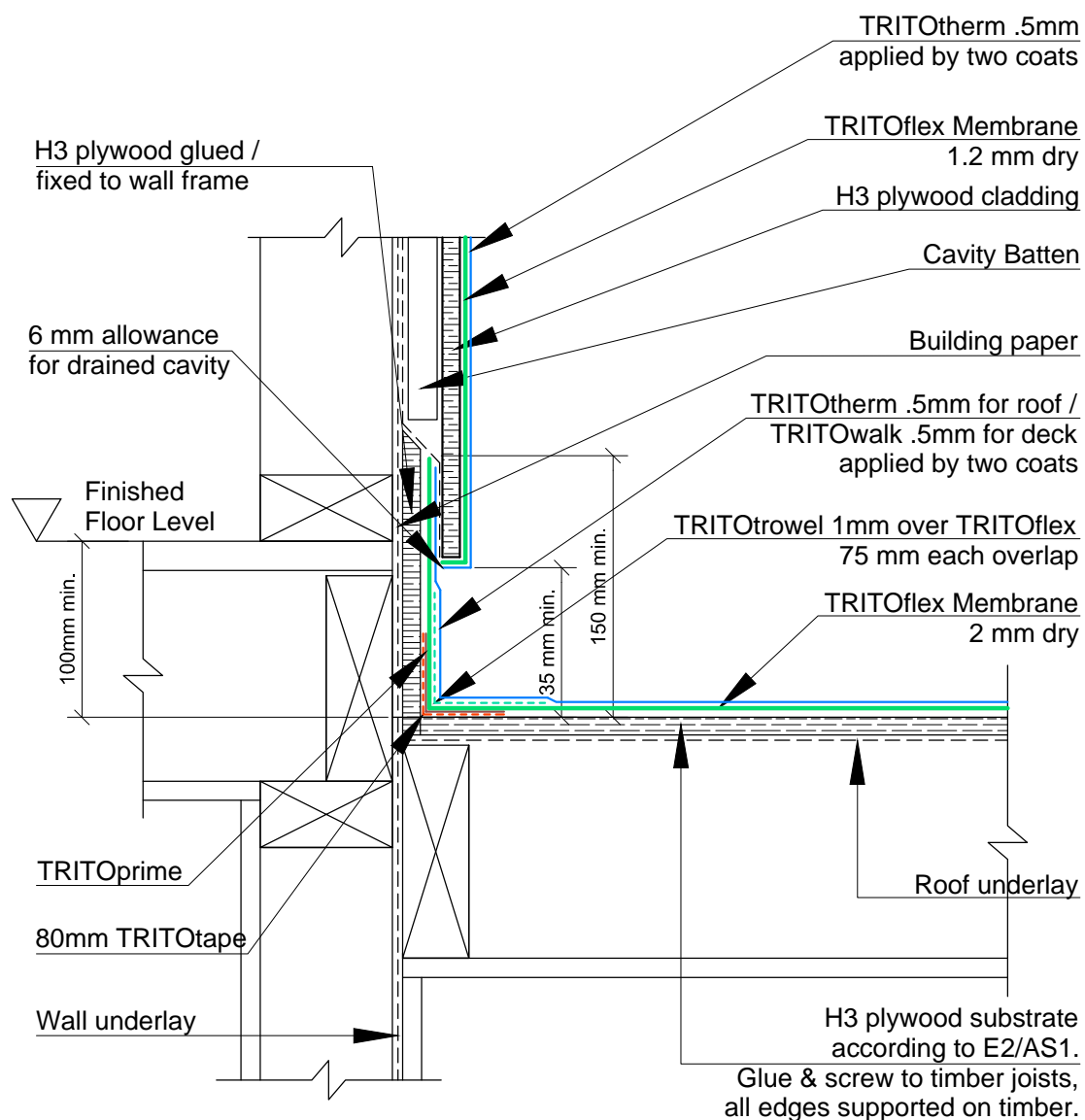
#### Plywood Deck / Roof

Window/Door Sill to  
Deck Junction Detail

Detail Number

PDR-08





CROSS SECTION

#### STRUCTURE AND SUBSTRATE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.



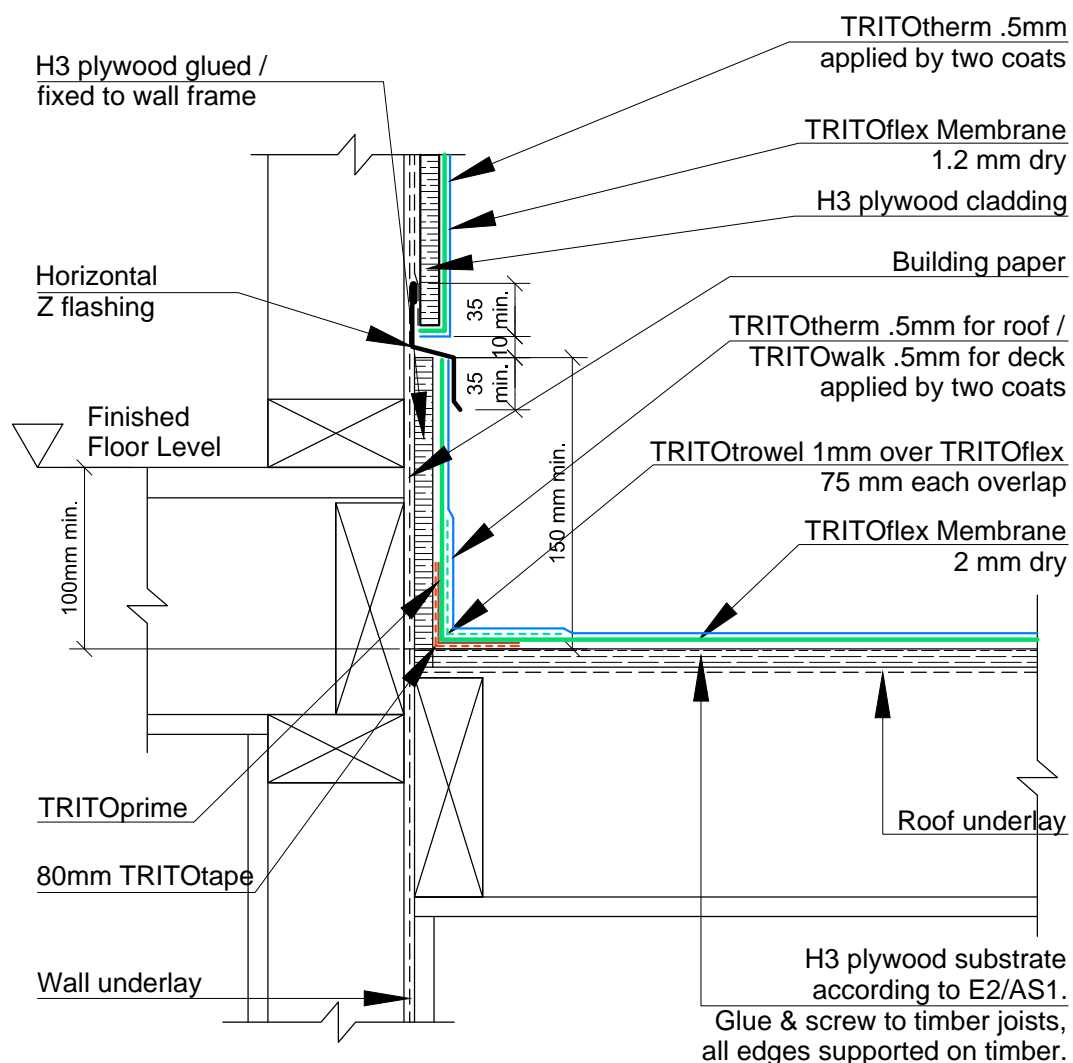
[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

#### Plywood Deck / Roof

Timber Frame Wall to  
Deck Junction Detail 4  
(Plywood Cladding on Cavity)

Detail Number


PDR-09

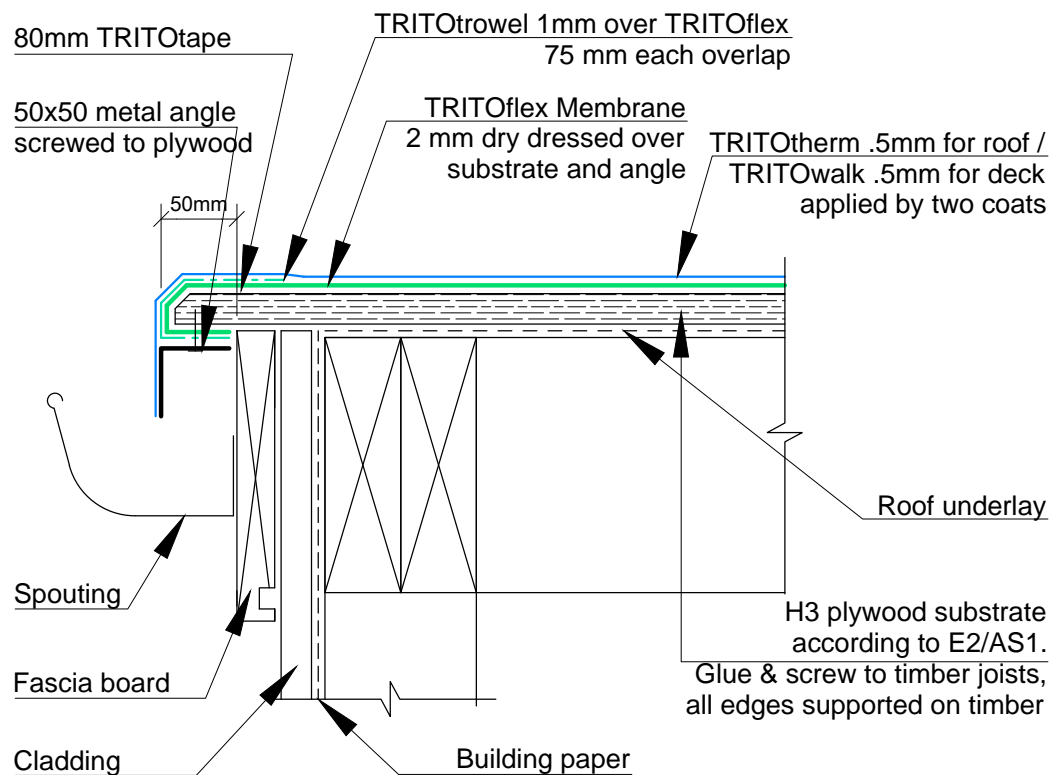


CROSS SECTION

#### STRUCTURE AND SUBSTRATE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.  
All flashings as per Figure 121 E2/ AS.


 <b>TRITOflex</b> <small>INTEGRITY LUMBER</small> Distributors Limited  <a href="http://www.tritoflex.co.nz">www.tritoflex.co.nz</a>	<b>Plywood Deck / Roof</b>  Timber Frame Wall to Deck Junction Detail 5 (Plywood Cladding Direct Fixed)	Detail Number  PDR-10
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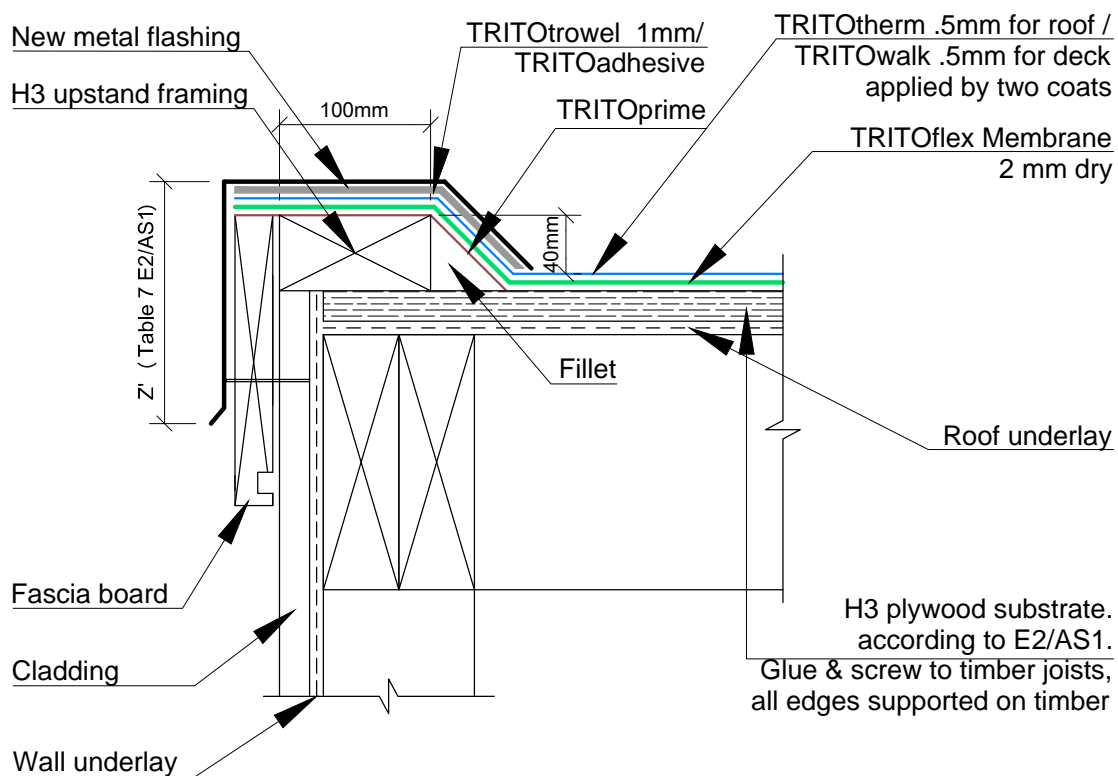


CROSS SECTION

#### STRUCTURE AND SUBSTRATE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.

 <b>TRITOflex</b> <small>INSTANT SET UNDERLAY</small> Distributors Limited  www.tritoflex.co.nz	Plywood Deck / Roof	Detail Number
	Eave Detail	PDR-11



CROSS SECTION

### STRUCTURE AND SUBSTRATE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.



[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

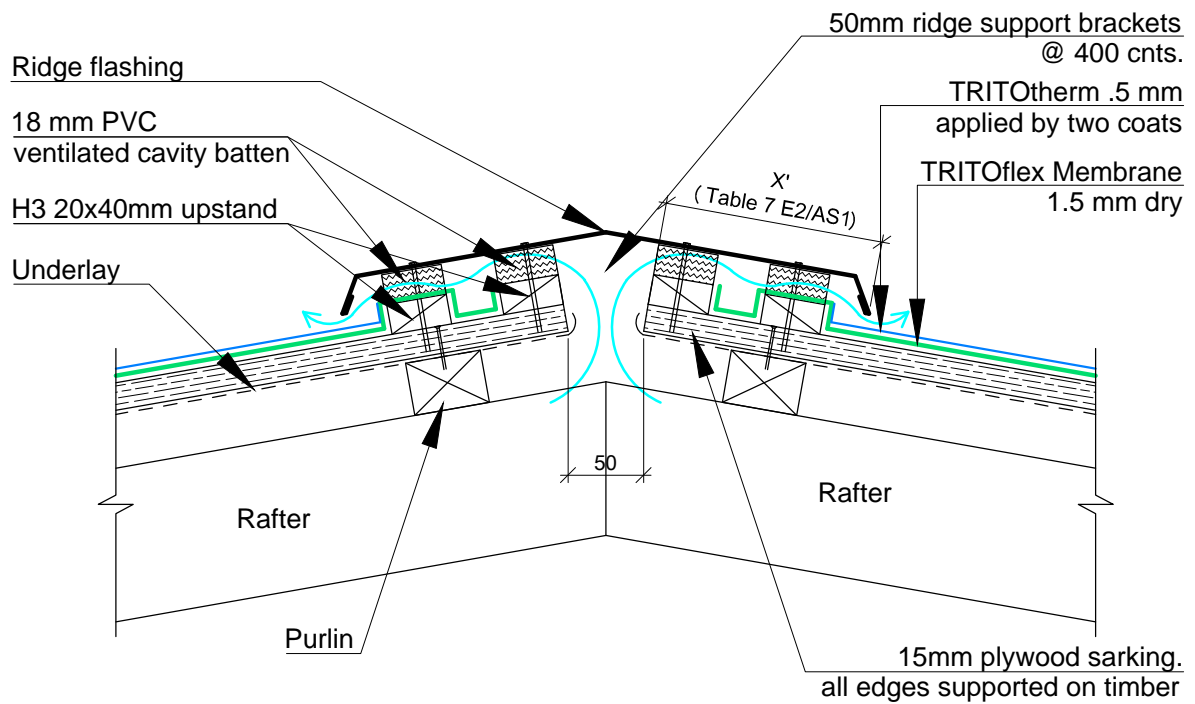
Plywood Deck / Roof

Barge Detail

Detail Number

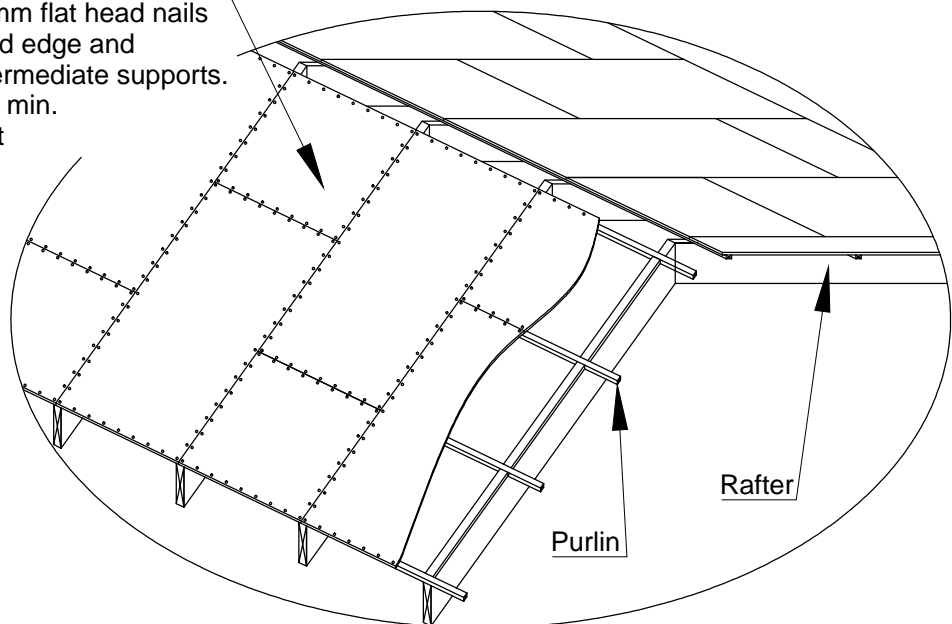
PDR-12





**CROSS SECTION**

15mm plywood sarking  
fixed with 30x2.5 mm flat head nails  
@ 150 cnts. around edge and  
@ 200 cnts. to intermediate supports.  
Fixing to be 10mm min.  
from edge of sheet



#### STRUCTURE AND SUBSTRATE BY OTHERS

Note: Plywood sarking / substrate should be sized and fixed as specified on Paragraph 9.8 E2/ AS1 and Figure 10.24 NZS 3604:2011 or AS 1684.  
H3 treated plywood to be used for non vented roofs less than 12° slope and decks.  
Untreated plywood can be used for vented roofs over 12° slope.



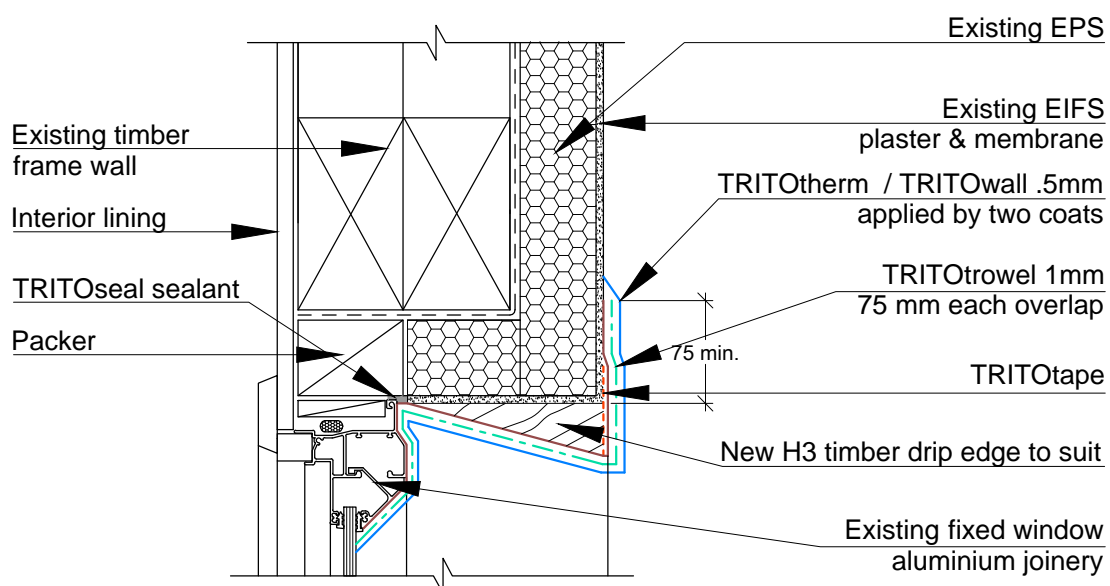
[www.tritoflex.co.nz](http://www.tritoflex.co.nz)

#### Plywood Deck / Roof

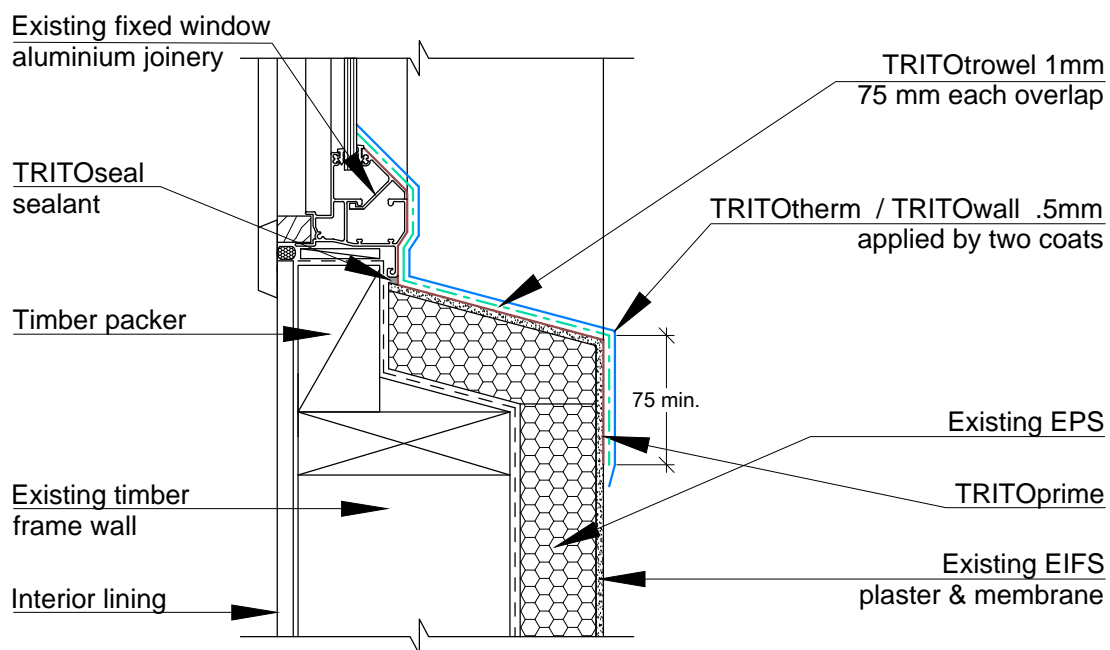
Ventilated Ridge Detail  
Plywood Sarking Fixing

Detail Number

PDR-14



CROSS SECTION



CROSS SECTION

# STRUCTURE AND SUBSTRATE BY OTHERS



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## Recondition To New

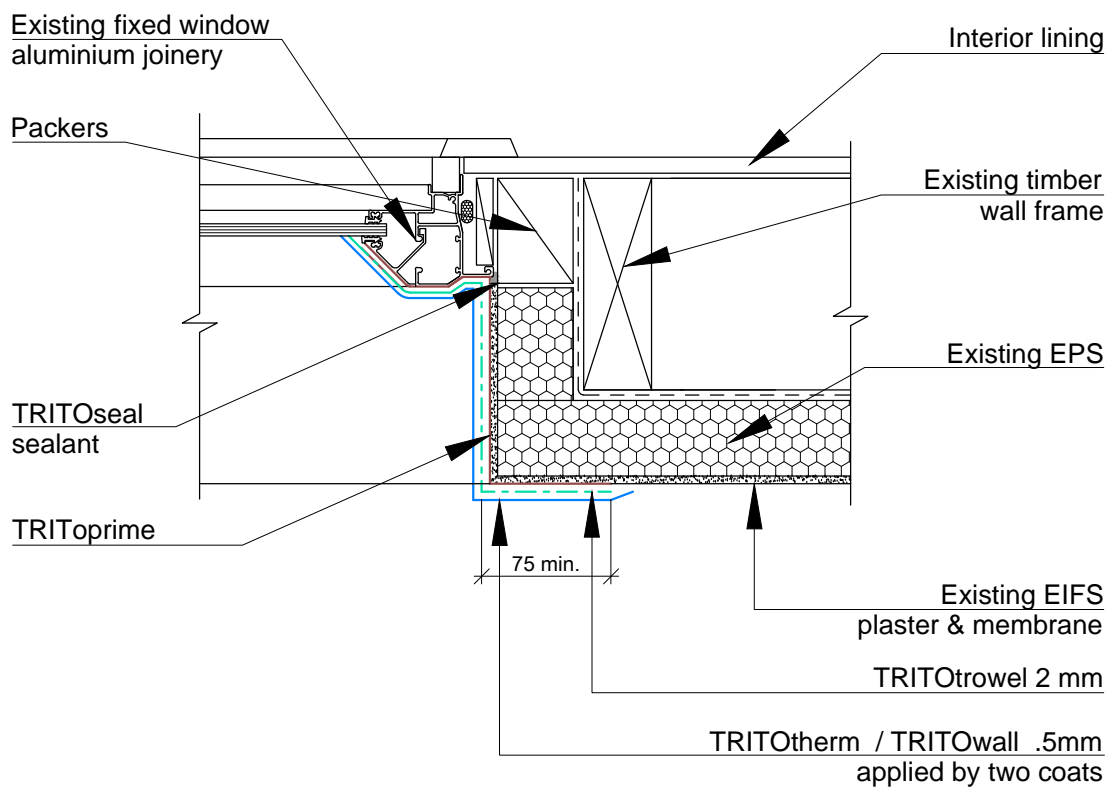
Fixed Window Head Detail

Fixed Window Sill Detail

Detail Number


RN-01

RN-02

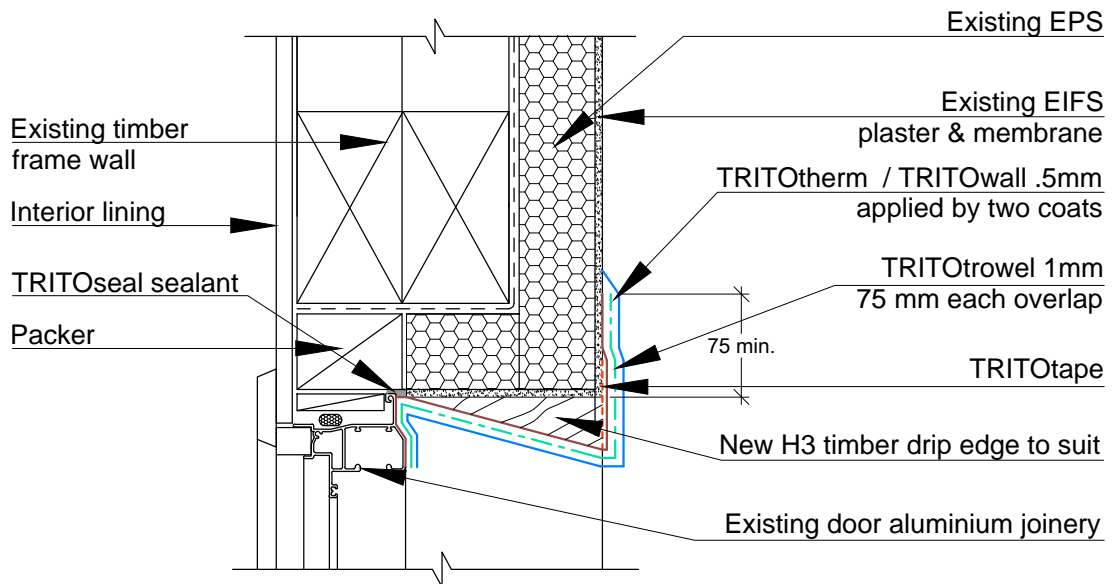


PLAN VIEW

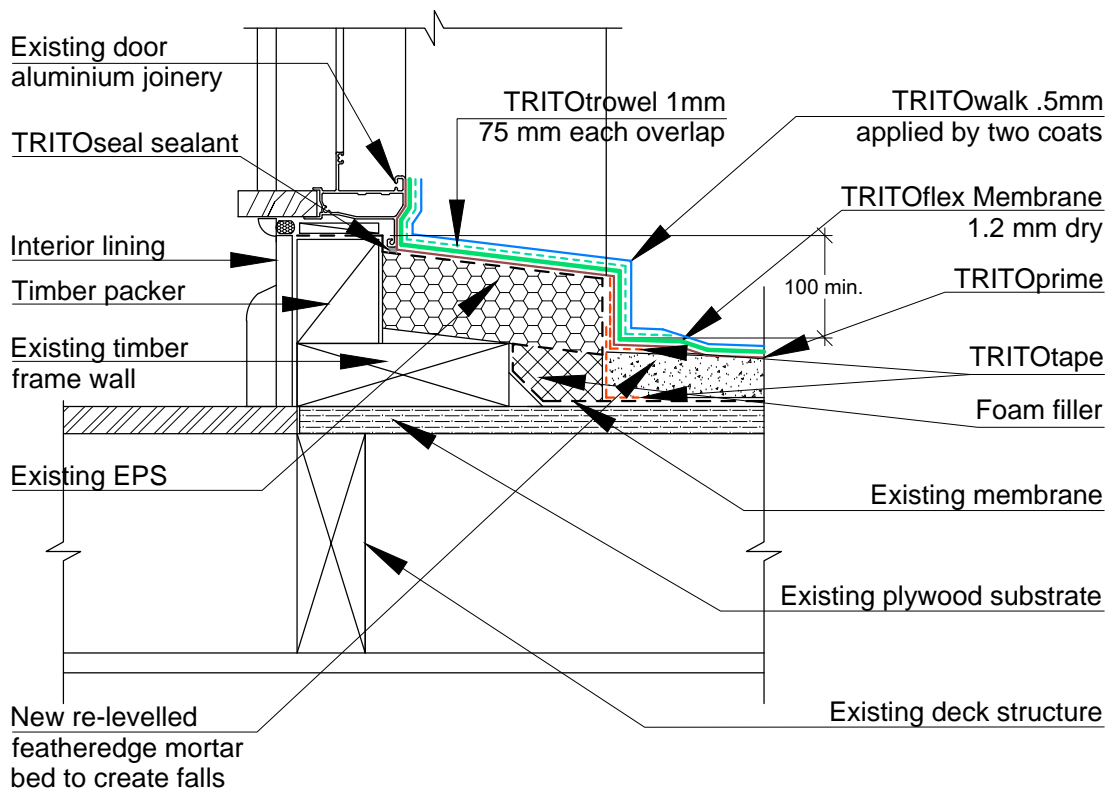
STRUCTURE AND SUBSTRATE BY OTHERS

 <p><b>TRITOflex</b> Distributors Limited</p> <p>www.tritoflex.co.nz</p>	<p>Recondition To New</p> <p>Fixed Window Jamb Detail</p>	<p>Detail Number</p> <p>RN-03</p>
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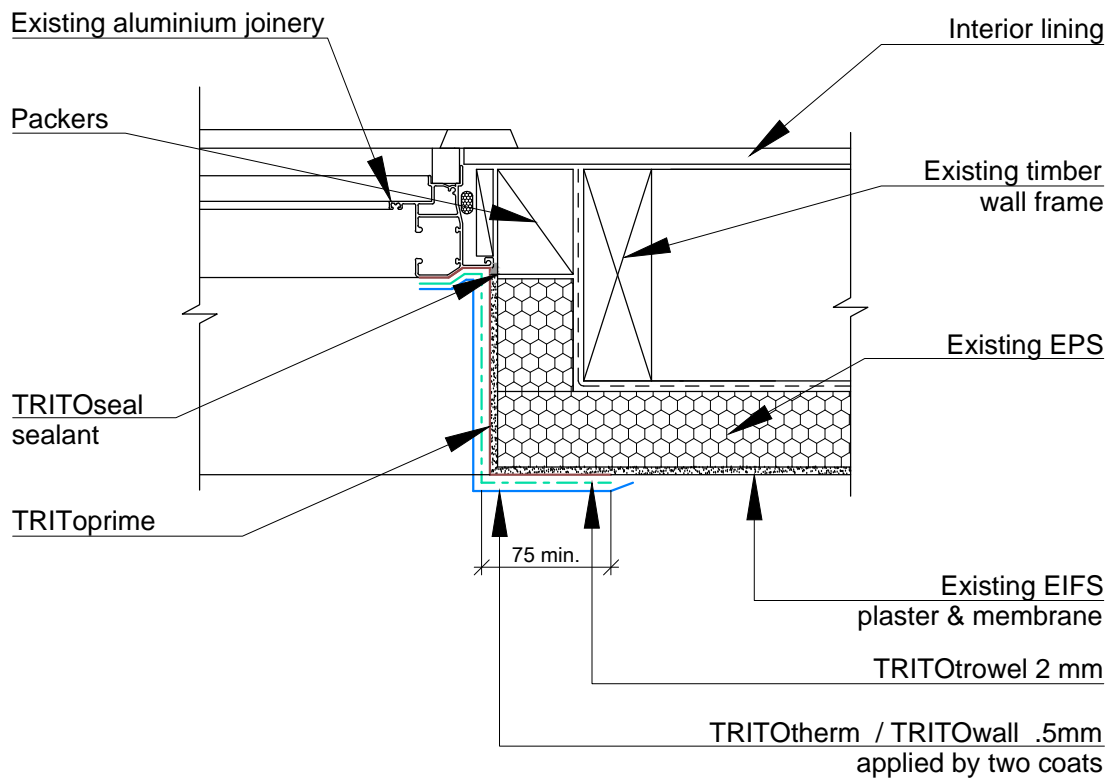
CROSS SECTION



CROSS SECTION


STRUCTURE AND SUBSTRATE BY OTHERS

 <b>TRITOflex</b> <small>INSTANT SET LIQUID MEMBRANE</small> Distributors Limited  <a href="http://www.tritoflex.co.nz">www.tritoflex.co.nz</a>	Recondition To New	Detail Number
	Door Head Detail	RN-04
	Door Sill Detail	RN-05




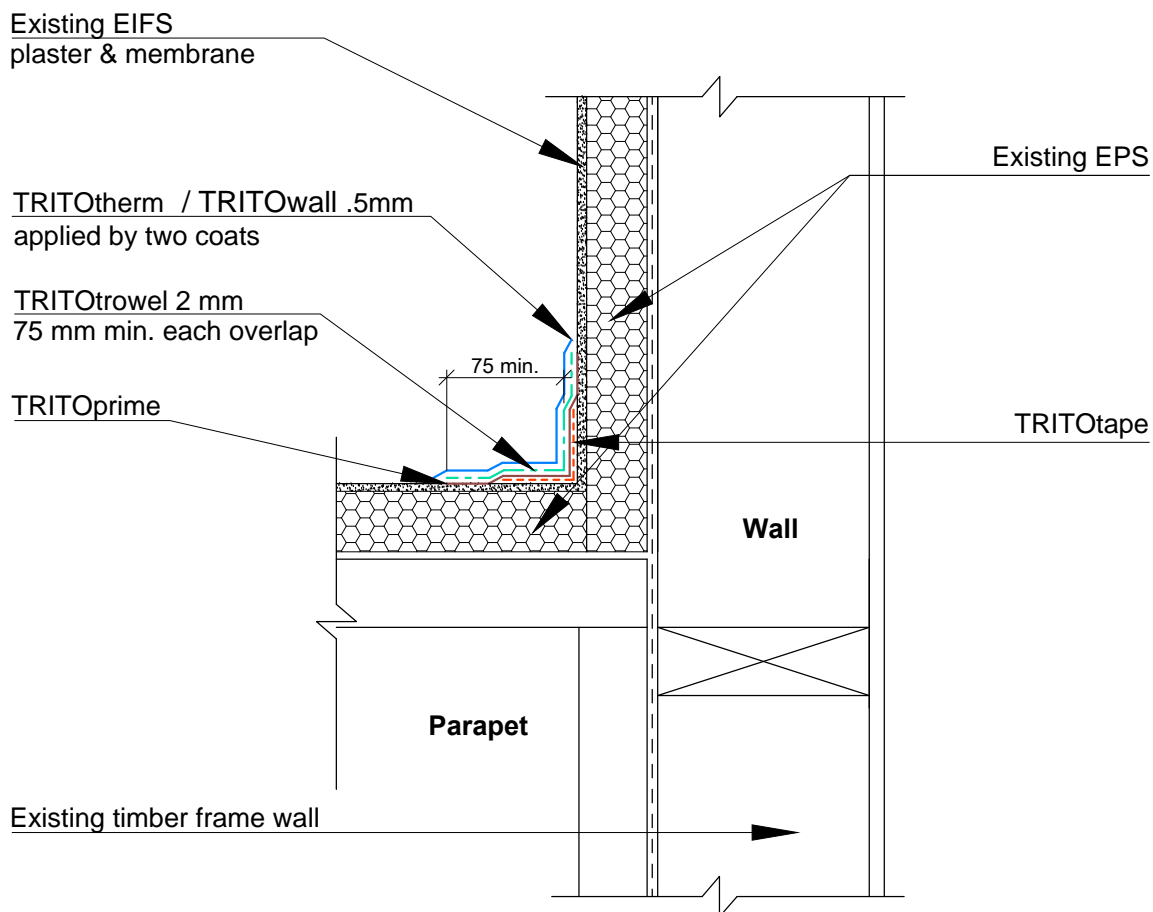
PLAN VIEW

STRUCTURE AND SUBSTRATE BY OTHERS

 <p><b>TRITOflex</b> Distributors Limited</p> <p>www.tritoflex.co.nz</p>	<p>Recondition To New</p> <p>Door Jamb Detail</p>	<p>Detail Number</p> <p>RN-06</p>
---	---	-----------------------------------




 <p><b>TRITOflex</b> INSTANT-SET LIQUID-BARRIER</p> <p>Distributors Limited</p> <p>www.tritoflex.co.nz</p>	<b>Recondition To New</b>	Detail Number
	Plywood Expansion Joint Detail	RN-07
	Waste Outlet Detail	RN-08



LONG SECTION ALONG PARAPET

STRUCTURE AND SUBSTRATE BY OTHERS

 <b>TRITOflex</b> <small>INSULATION SYSTEMS LIMITED</small> Distributors Limited  <a href="http://www.tritoflex.co.nz">www.tritoflex.co.nz</a>	Recondition To New	Detail Number
	Flat Parapet Cap to Wall Junction Detail	RN-09

TRITOtrowel 2 mm  
75 mm each overlap

TRITOtherm / TRITOWall  
.5mm applied by two coats

TRITOpriime

20mm weep holes  
@600 cnts.

Existing EIFS  
plaster & membrane

Existing EPS

Existing timber frame wall

Horizontal packer

Existing cladding

Cavity batten

CROSS SECTION

Existing EIFS  
plaster & membrane

TRITOflex Membrane  
2 mm dry

TRITOWalk .5mm  
applied by two coats

TRITOpriime

TRITOtape

New re-levelled  
featheredge mortar  
bed to create falls

Existing plywood substrate

Existing deck structure

Existing EPS

Existing cladding

Foam filler

Cavity batten

Existing waterproofing  
membrane

CROSS SECTION

STRUCTURE AND SUBSTRATE BY OTHERS



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Recondition To New

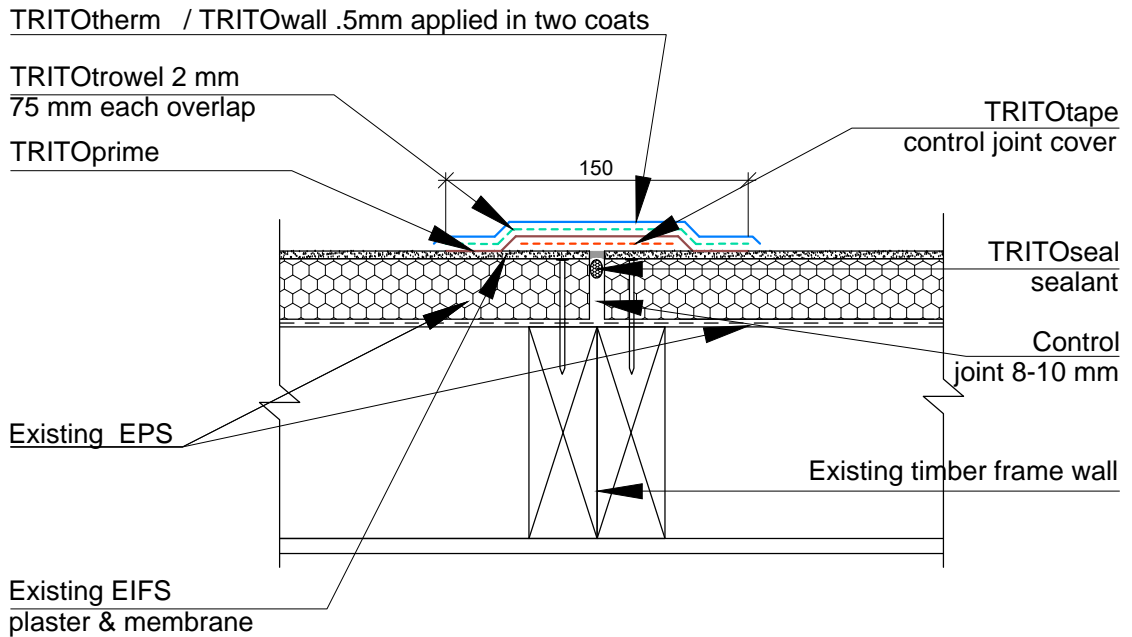
Flat Parapet Cap Detail

Ponding Roof Deck Junction Detail

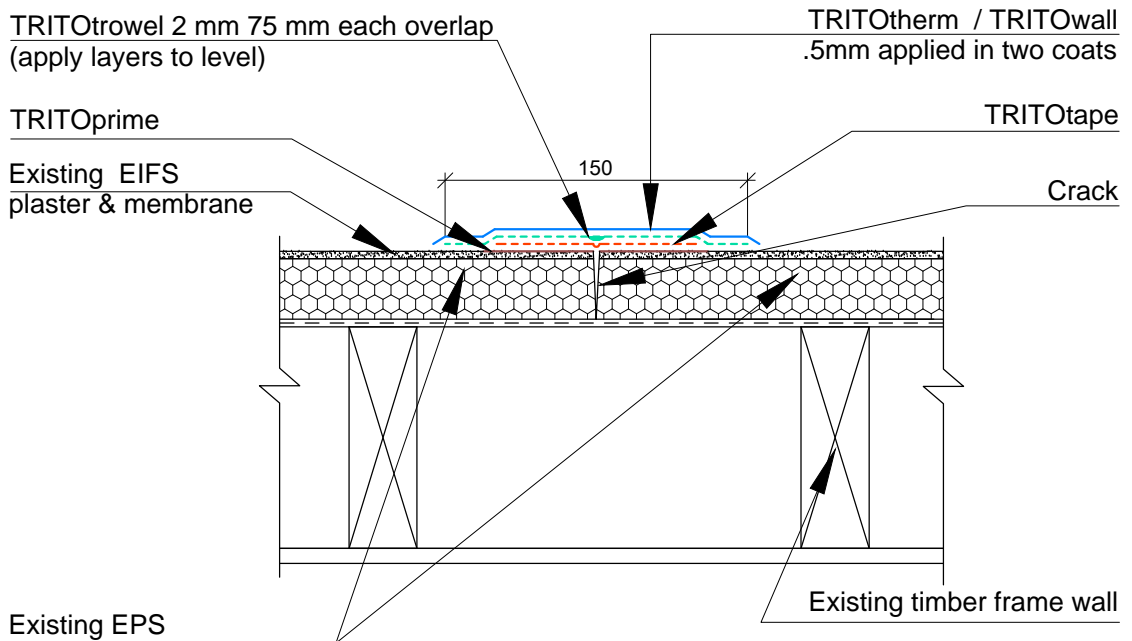
Detail Number

RN-10

RN-11



PLAN VIEW



PLAN VIEW

# STRUCTURE AND SUBSTRATE BY OTHERS



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## Recondition To New

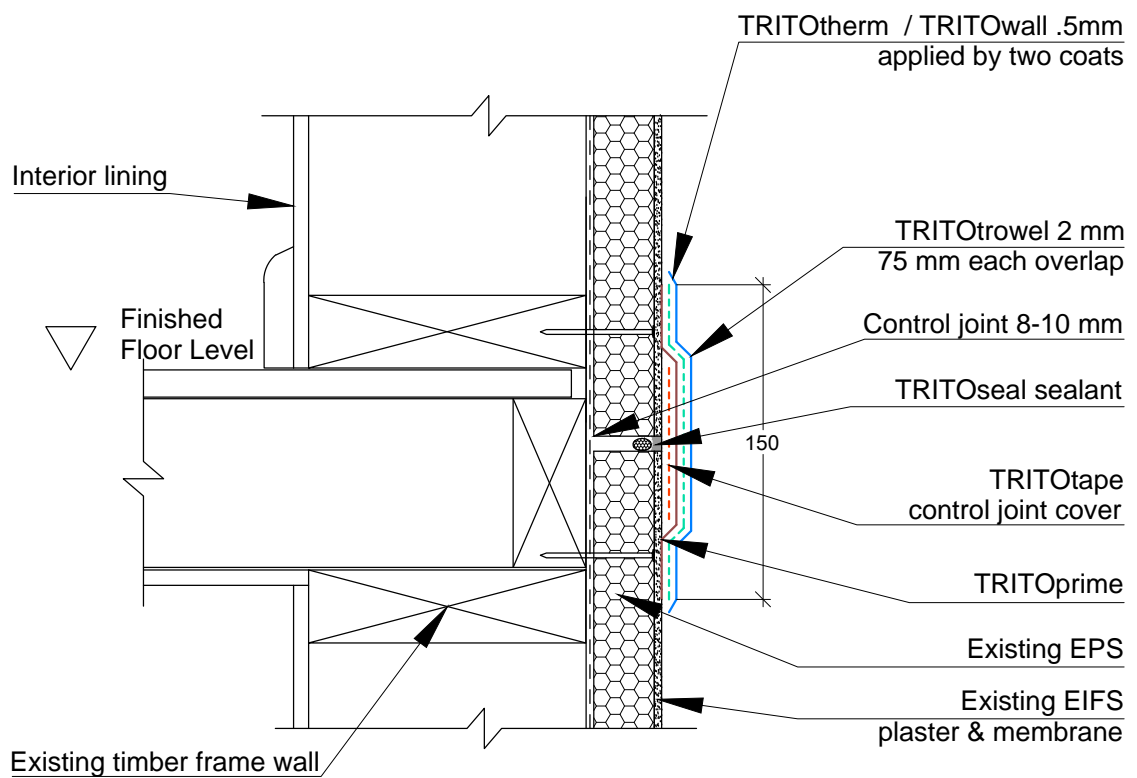
Vertical Control Joint Detail

Crack Waterproofing Detail

Detail Number


RN-12

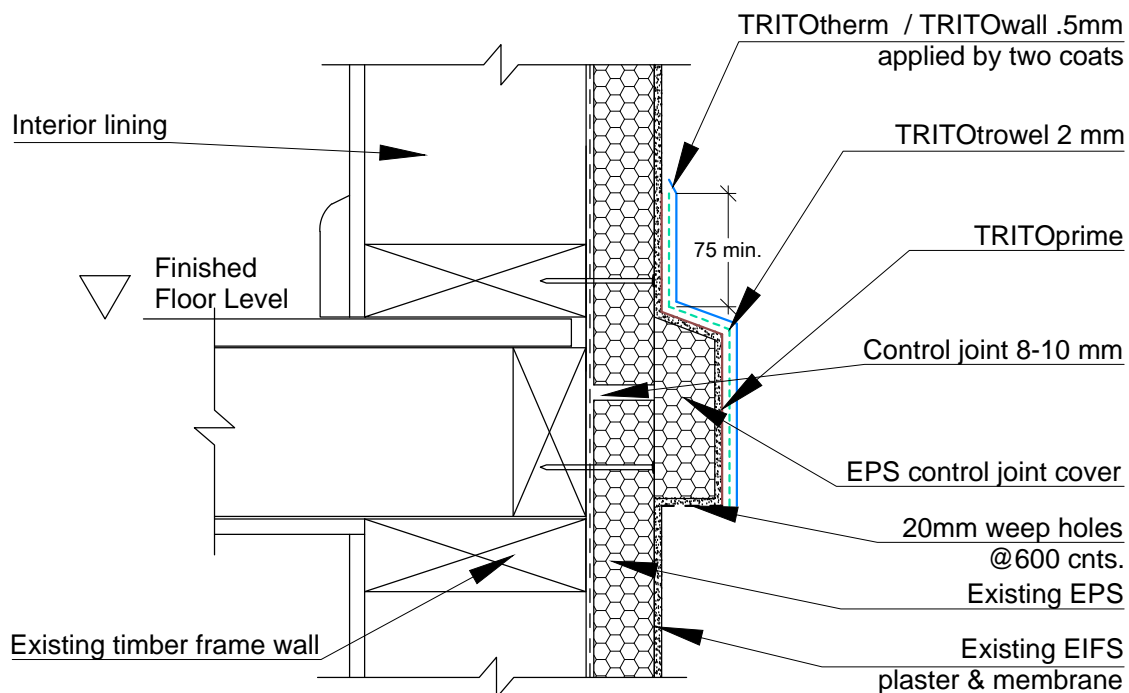
RN-13



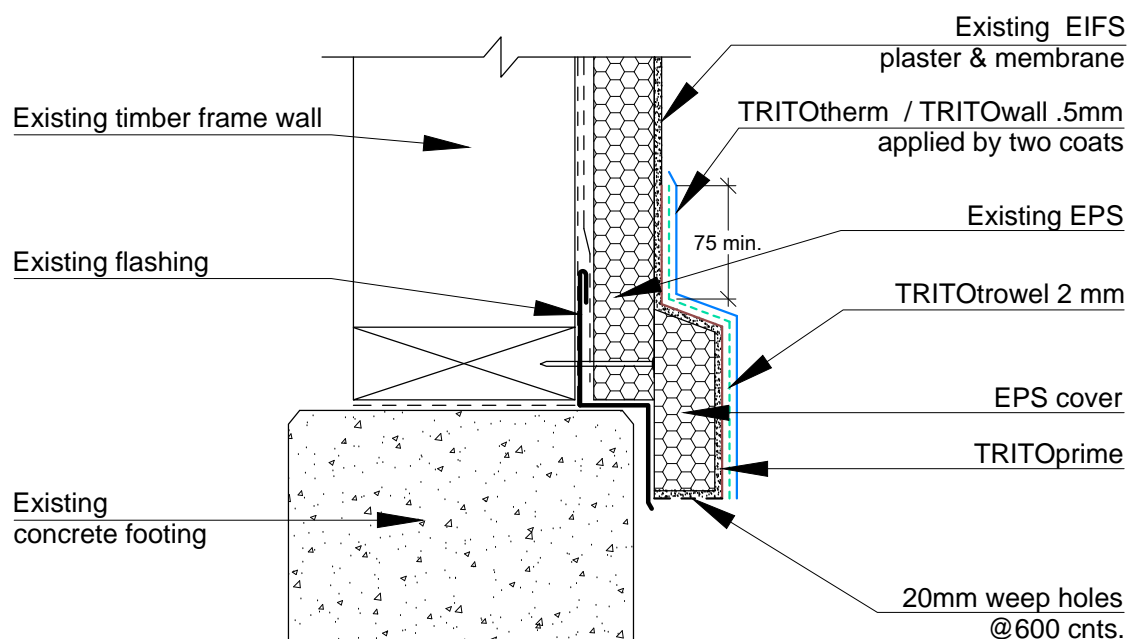
CROSS SECTION

STRUCTURE AND SUBSTRATE BY OTHERS

 <p><b>TRITOflex</b> Distributors Limited</p> <p>www.tritoflex.co.nz</p>	<p>Recondition To New</p> <p>Horizontal Control Joint Detail 1</p>	<p>Detail Number</p> <p>RN-14</p>
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CROSS SECTION

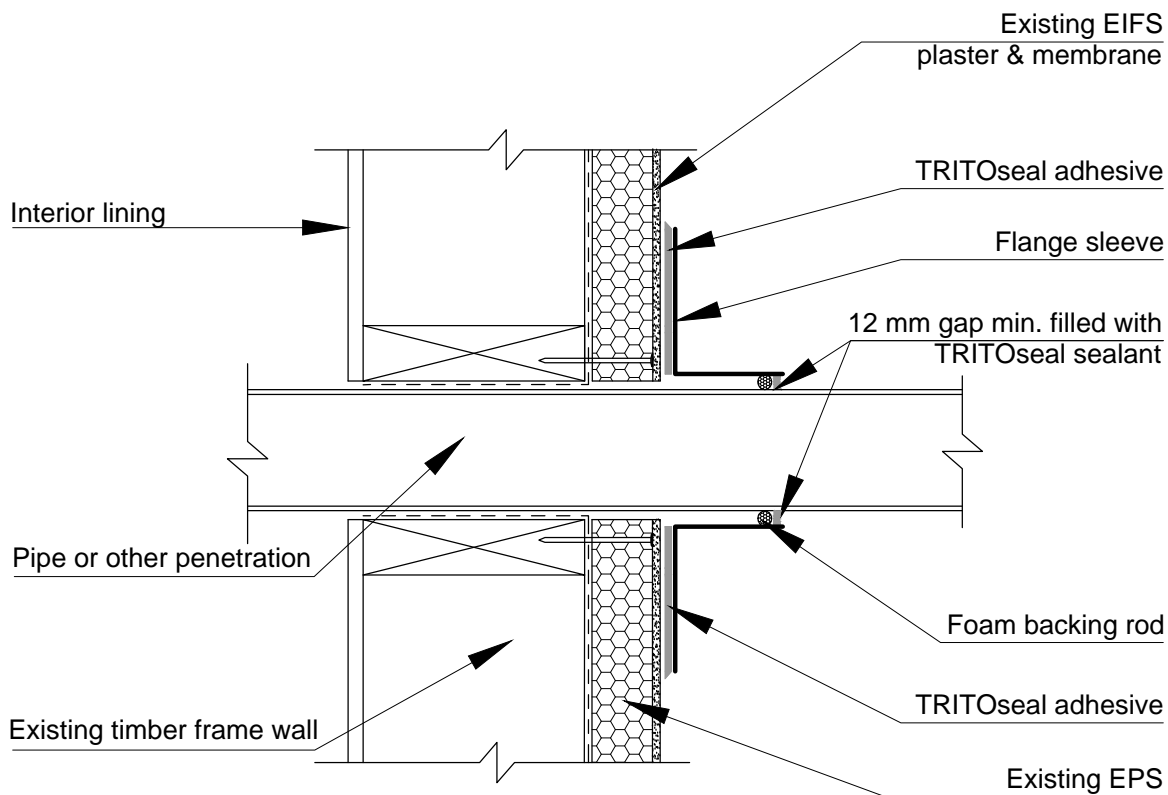


CROSS SECTION

STRUCTURE AND SUBSTRATE BY OTHERS


 <p>www.tritoflex.co.nz</p>	Recondition To New	Detail Number
	Horizontal Control Joint Detail 2	RN-15
	Bottom of Cladding Detail	RN-16

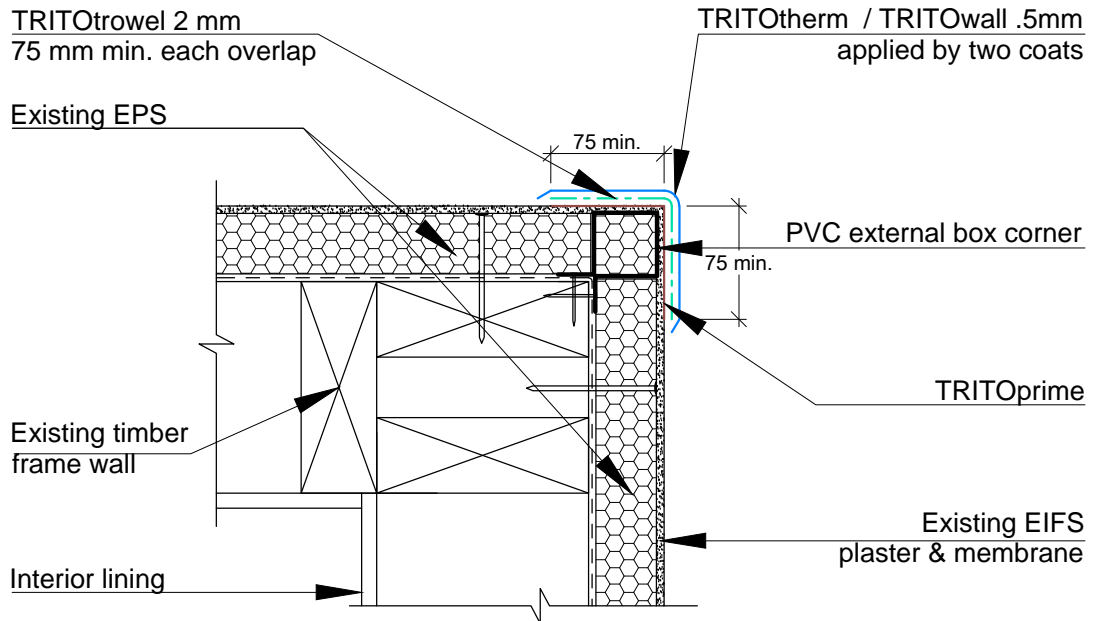




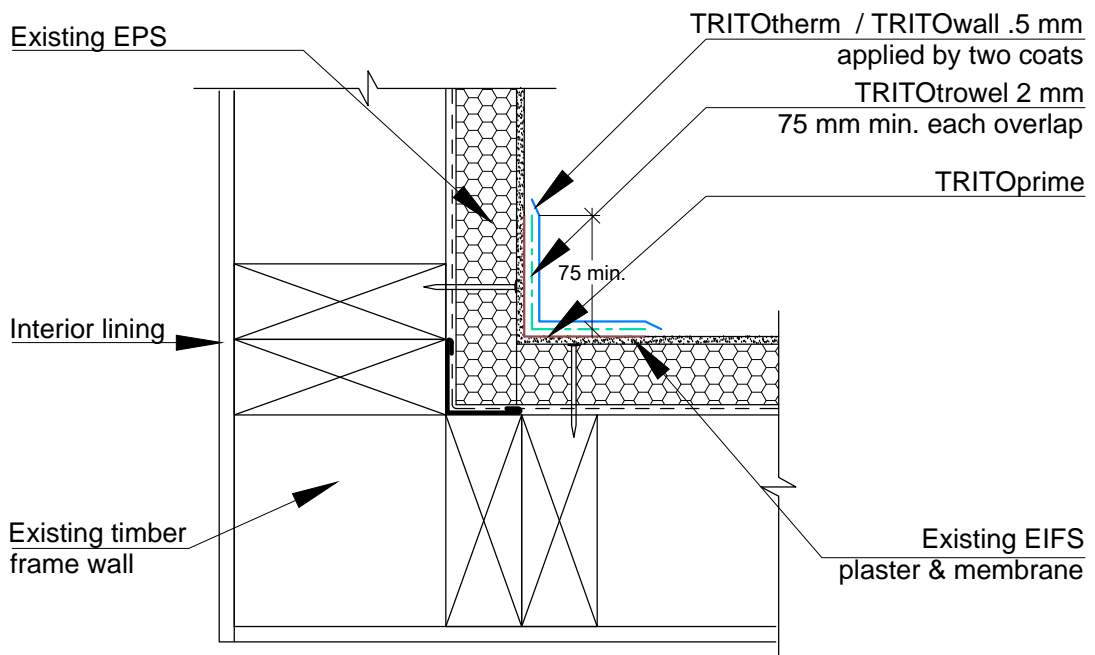
CROSS SECTION

STRUCTURE AND SUBSTRATE BY OTHERS

 <p>www.tritoflex.co.nz</p>	<p>Recondition To New</p> <p>Pipe Penetration Detail</p>	<p>Detail Number</p> <p>RN-17</p>
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PLAN VIEW



PLAN VIEW

# STRUCTURE AND SUBSTRATE BY OTHERS



www.tritoflex.co.nz

## Recondition To New

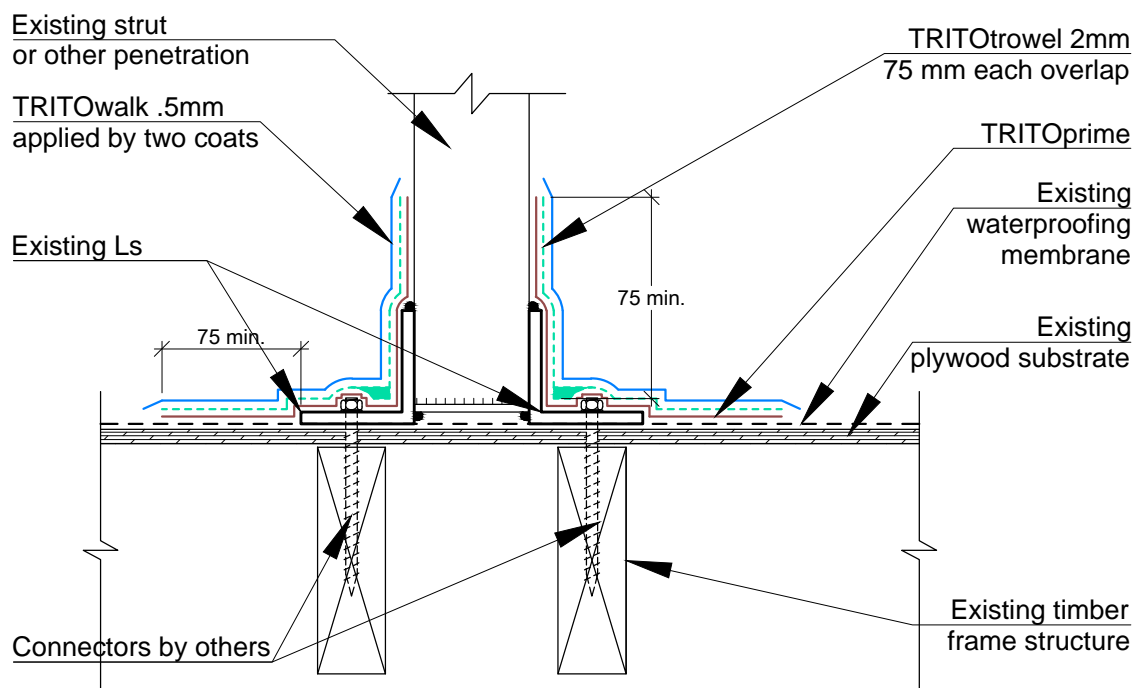
External Corner Detail

Internal Corner Detail

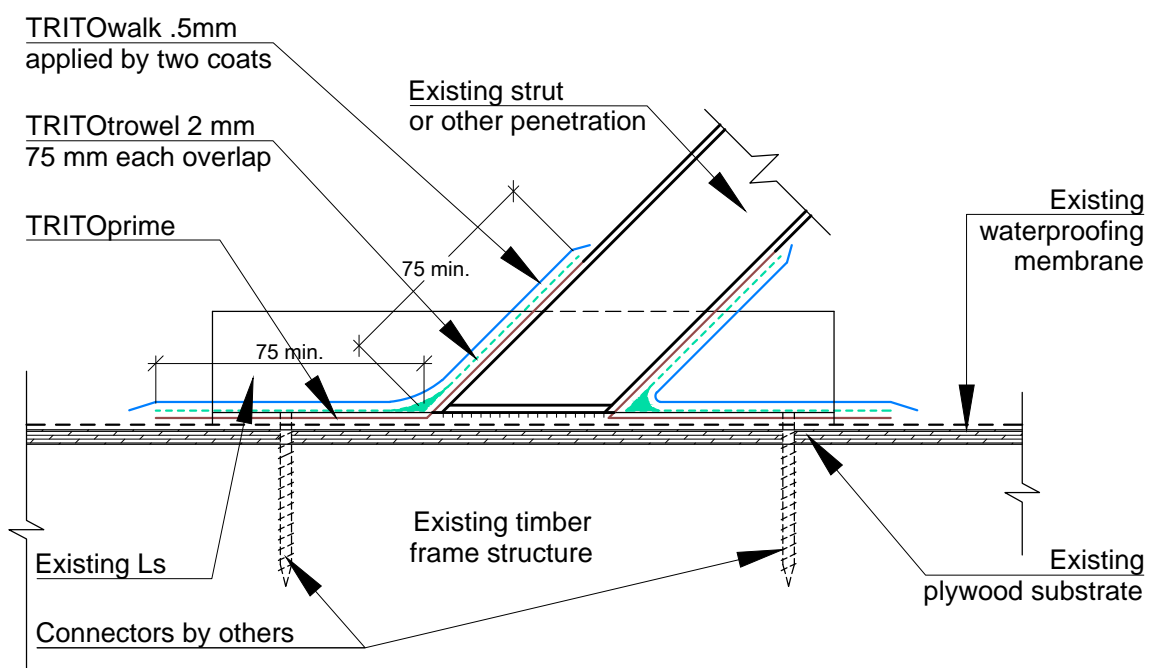
Detail Number

RN-18

RN-19



CROSS SECTION



LONG SECTION

STRUCTURE AND SUBSTRATE BY OTHERS



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Recondition To New

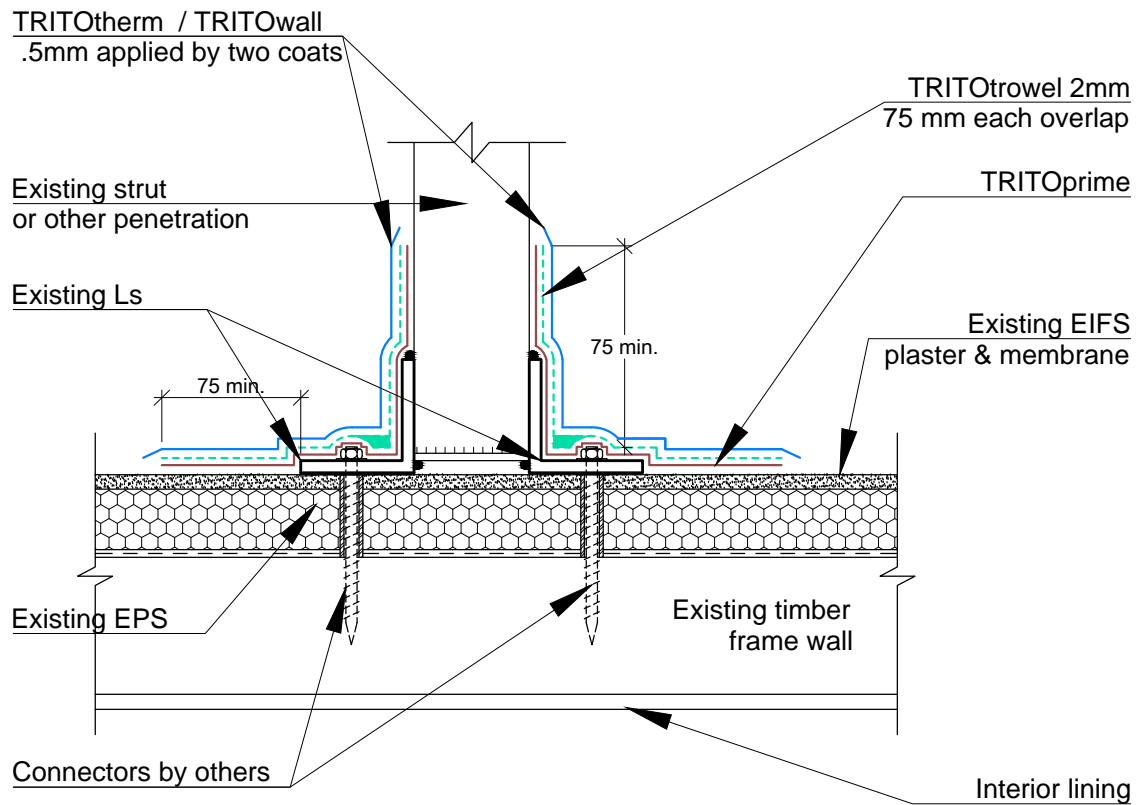
Strut to Deck Penetration Detail 1

Strut to Deck Penetration Detail 2

Detail Number


RN-20

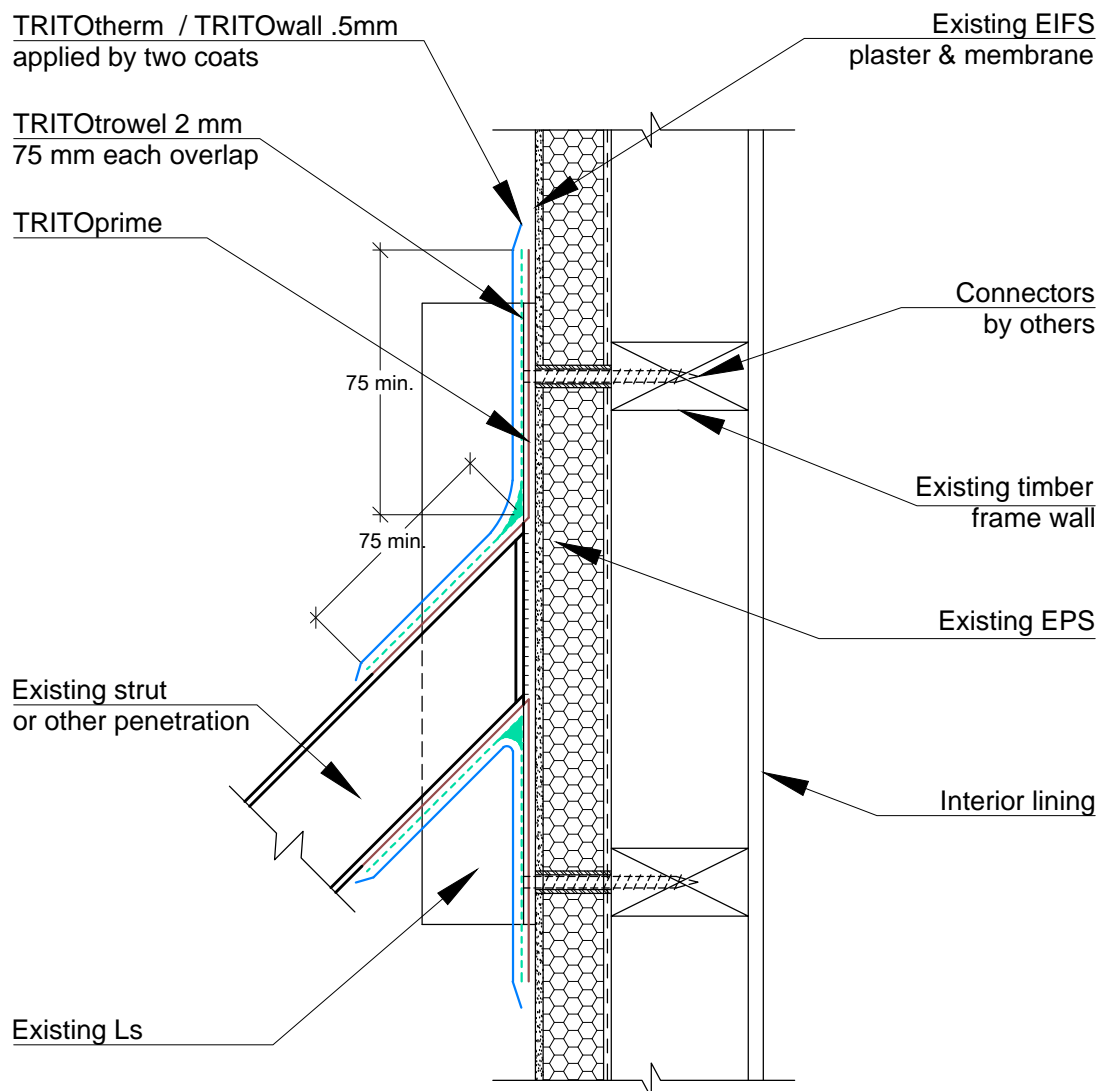
RN-21



PLAN VIEW

STRUCTURE AND SUBSTRATE BY OTHERS

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LONG SECTION

STRUCTURE AND SUBSTRATE BY OTHERS

 <p><b>TRITOflex</b> Distributors Limited</p> <p>www.tritoflex.co.nz</p>	<p>Recondition To New</p> <p>Strut to Wall Penetration Detail 2</p>	<p>Detail Number</p> <p>RN-23</p>
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