



## Australia Case Studies



# OUR LADY OF THE ASSUMPTION

Strathfield, Sydney, NSW



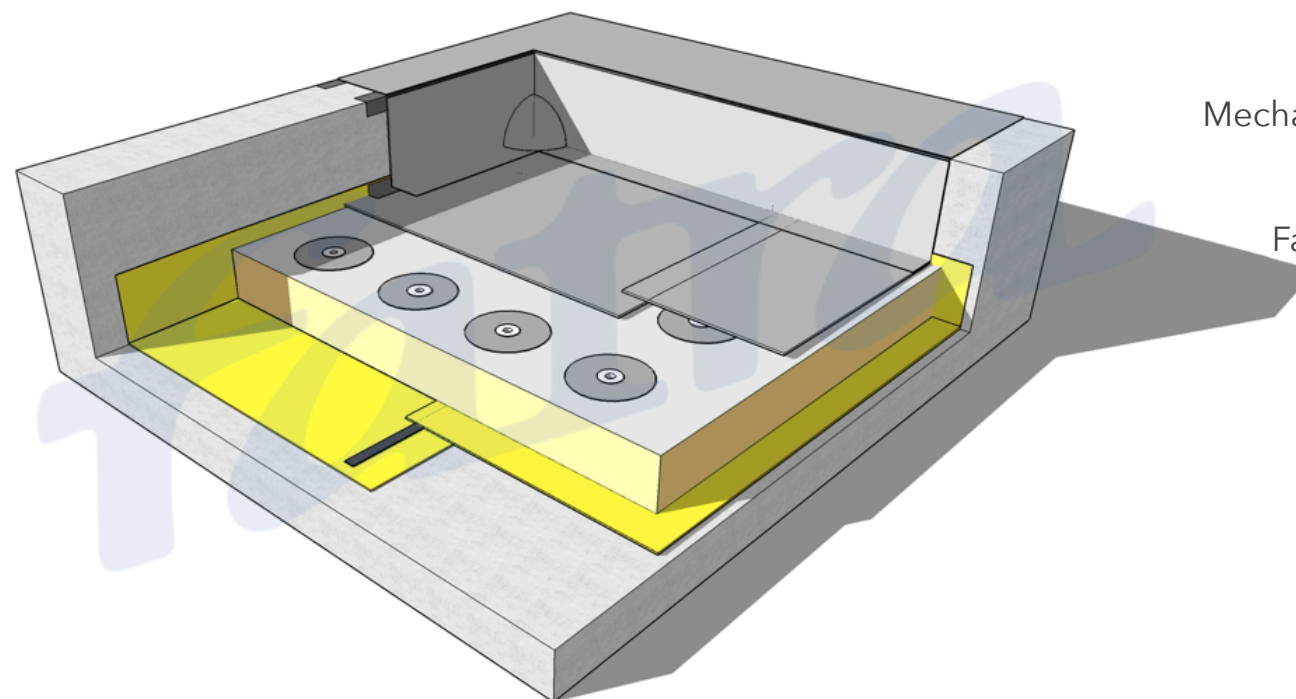
## PROJECT | Summary

The NSW Department of Education rolled out a large refurbishment and extension of the Our Lady of the Assumption school in Strathfield. The existing building was extended and new building was built on the premises. To create a thermally efficient and sustainable learning environment for their pupils the architect specified a Fatra PVC membrane tapered insulated roof. This Fatra engineered system created the falls on the timber structure whilst providing the most thermally efficient and sustainable waterproof membrane system on the market today.

The Fatra tapered insulated cool roof system was implemented on 2 main roofs and 2 lower play areas whilst our fully adhered system was implemented on the lower outside balcony areas as well as the green garden to level 3.

With an array of performance benefits and a 20 year warranty, Fatra carried out a full electronic leak detection test upon completion along with progress inspections throughout to ensure the highest standard of installation was maintained from start to finish

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**  
3,000m<sup>2</sup>

**Method of Application**  
Mechanically Fixed Tapered Insulation

**Membrane**  
Fatrafol 810v PVC Membrane

**Area of Application**  
Roof

**Industry/Sector**  
New Build - Education

**Duration**  
10 weeks

**Completed**  
2017





## PROJECT | Summary

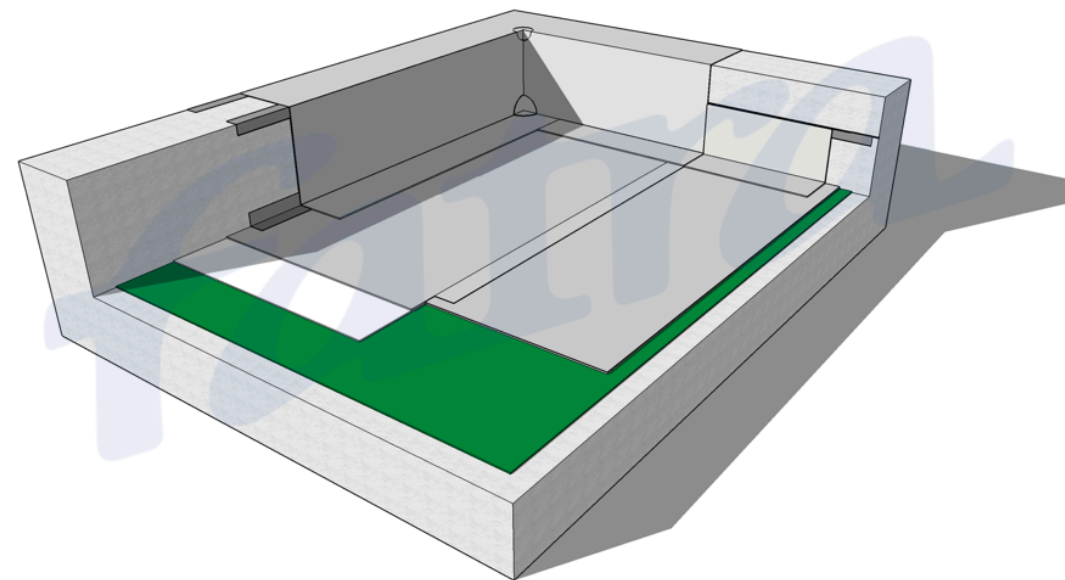
A high end residential project in the heart of St Ives had been experiencing numerous water ingress issues for a number of years to the balconies, door thresholds, planter boxes and main roof.

Fatra worked closely with our approved applicator to provide a fully in-depth specification which incorporated site specific cavity flashings, door detailing, methodology and scope of works to implement our Fatrafol 807v PVC membrane to the balconies and main roof as well as our Fatrafol 810v PVC membrane to the planter boxes and wall cavities.

Our approved contractor executed the work to the highest of standards and rectified all the water ingress issues the building had been plagued with for years.

This project is a perfect example of how all Fatrafol PVC membranes can be integrated to provide a sustainable and fully homogenous waterproofing system. From roof, to balconies which are connect to the planter boxes and cavities, there wasn't any need for numerous types of membranes, additional layers to provide root resistance and site specific cavity termination flashing made the process simple, easy and cost affective.

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**

1,200m<sup>2</sup>

**Method of Application**

Fully Adhered/Mechanically Fixed

**Membrane**

Fatrafol 810v/807v PVC Membrane

**Area of Application**

Roof/Planter Boxes/Balconies/Cavity

**Industry/Sector**

Remedial - Residential

**Duration**

10 weeks

**Completed**

2017



# GROSVENOR STREET

Croydon, Sydney, NSW

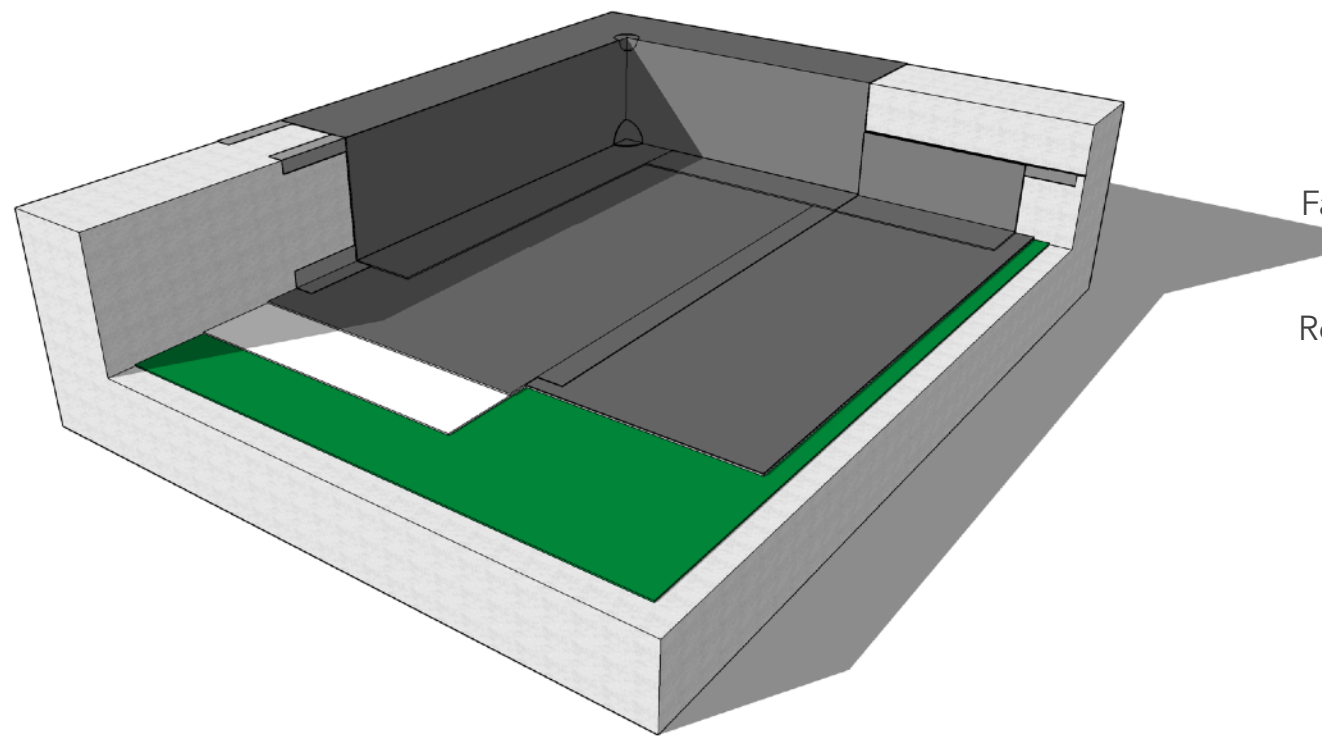


## PROJECT | Summary

With a growing need for waterproofing membranes that are designed and proven to perform over a sustained period of time, one of Sydney's largest builders has made the decision to implement PVC membranes on all their projects realising that by investing in a sustainable waterproofing system which is designed for their site specific objectives will save them long term.

That's why Fatrafol 807v Lead Grey was chosen to be installed by a Fatra approved applicator on their most recent high rise residential project. The Fatrafol lead grey membrane tied in perfectly with the facade colour scheme. Fatra provided the membrane for all the roofs, lift pits, planter boxes, balconies and common areas to the roof creating a fully integrated PVC sheet membrane system with a life expectancy in excess of 30 years.

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**

1,200m<sup>2</sup>

**Method of Application**

Fully Adhered

**Membrane**

Fatrafol 807v PVC Membrane

**Area of Application**

Roof/Planter Boxes/Balconies

**Industry/Sector**

New Build - Residential

**Duration**

10 weeks

**Completed**

2019



# NEWCOLD 1

Truganina, Melbourne, VIC



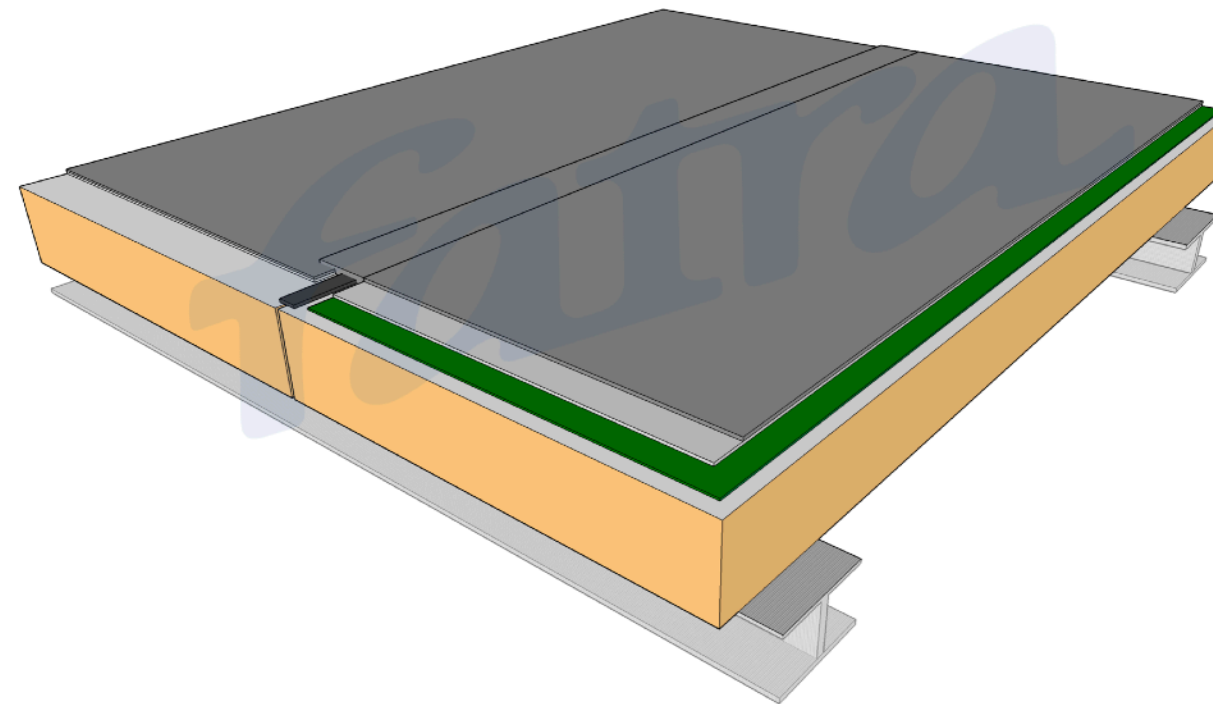
## PROJECT | Summary

NewCold logistics decided the opportunities Australia has to offer are too big to ignore. The first 2 buildings in Melbourne were designed to provide performance and sustainability. Fatra worked tirelessly generating a 98 page specification on the waterproofing system to the high & low bays as well as the battery bays and office buildings.

Cold store construction isn't the same as traditional buildings. The controlled temperatures inside the warehouse can fall below -30 degrees so it's imperative the correct insulated waterproofing system is specified. Working with the developer, building and other suppliers Fatra implemented a fully adhered system which was bonded to a tissue faced insulation board providing superior resistance to water ingress along with a thermally efficient and effective roof panel system.

Fatra have a long reputation of delivering cold store projects to the highest standards worldwide which is why NewCold made the easy decision to appoint Fatra and our approved applicators to install our Fatrafol 807v fleece back PVC membrane to their brand new, state of the art facilities in Melbourne.

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**  
25,000m<sup>2</sup>

**Method of Application**  
Fully Adhered - Cold Store Panel

**Membrane**

Fatrafol 807v PVC Membrane

**Area of Application**

Roof

**Industry/Sector**

New Build - Commercial

**Duration**

20 weeks

**Completed**

2017



# NEWCOLD 2

Truganina, Melbourne, VIC



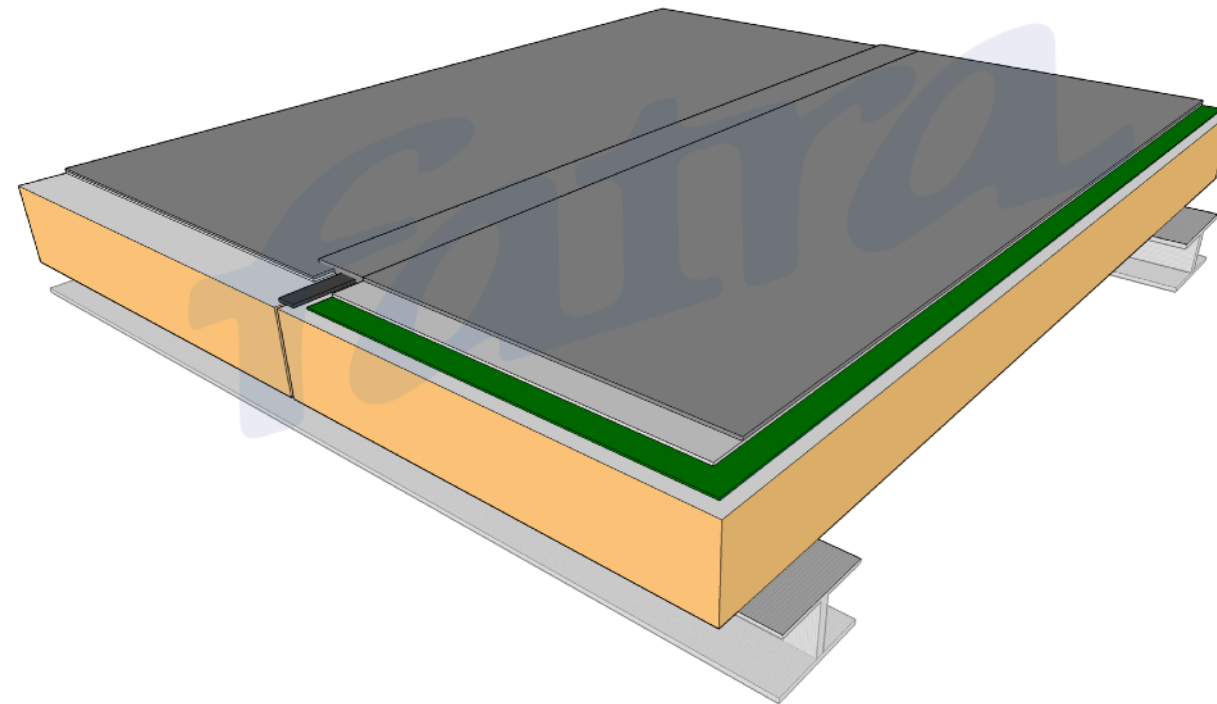
## PROJECT | Summary

NewCold logistics built the second of 2 buildings in Melbourne and similar to NewCold 1, Fatra provided a full specification with 3D rendered detailing and installation guidance to implement our Fatrafol 807v fleece back PVC membrane which was fully adhered directly to a cold store roof panel.

A Fatra approved contractor installed 20,000m<sup>2</sup> of Fatrafol 807v to the main roof, lower roofs, loading docks and air lock roofs over a 20 week period which includes FatraFix bars, Fatra lightning conductor clips, FatraWalk Way membrane and prefabricated ancillaries and site specific termination angles to achieve a fully homogenous Fatrafol PVC membrane roof system.

With such a landmark structure and bluechip cold storage facility company constructing a state of the art facility, Fatra continue to prove why they are market leaders in providing sustainable & cost effective waterproofing solutions.

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**  
20,000m<sup>2</sup>

**Method of Application**  
Fully Adhered - Cold Store Panel  
**Membrane**

Fatrafol 807v PVC Membrane

**Area of Application**  
Roof

**Industry/Sector**  
New Build - Commercial

**Duration**  
20 weeks

**Completed**  
2017



# PITTWATER ROAD

Narrabeen, Sydney, NSW



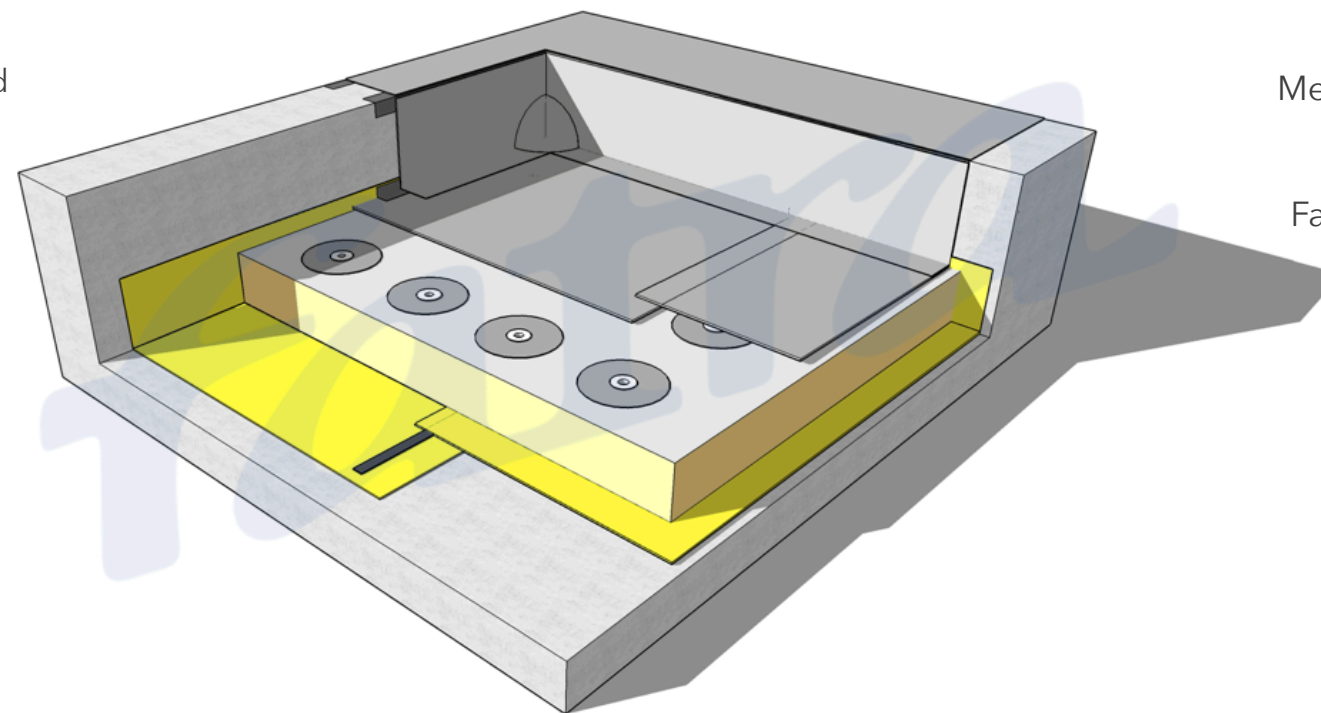
## PROJECT | Summary

A new build multi residential complex was experiencing cracks in the roof slab caused by structural movement and proposed a liquid membrane ballasted system to the roof area. Liquid membranes inability to handle cracking substrates and shearing caused the builder to rethink the waterproofing system. Fatra proposed our mechanically fixed cool roof system where the membrane is installed over the insulation removing the requirement for a ballast and concerns of the membrane failing.

The Fatra mechanically fixed cool roof system provides the client with a system that can doesn't require a ballast therefore reduce structural loading on the building, ability to test the membrane for any breaches caused by external contractors, minimise thermal bridging, improve thermal efficiency whilst being cost effective compared to traditional cool roof systems.

A vapour control layer was installed below the insulation to prevent water ingress created by condensation, sealed with butyl tape. An XPS insulation was then laid over the VCL with a geotextile fabric separation layer and then anchored to the structure. Our Fatrafol 810v PVC membrane was then installed over our Fatra pad system creating a none penetrative mechanically fixed cool roof system.

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**

1,500m<sup>2</sup>

**Method of Application**

Mechanically Fixed - Cool Roof

**Membrane**

Fatrafol 810v PVC Membrane

**Area of Application**

Roof

**Industry/Sector**

New Build - Residential

**Duration**

8 weeks

**Completed**

2017





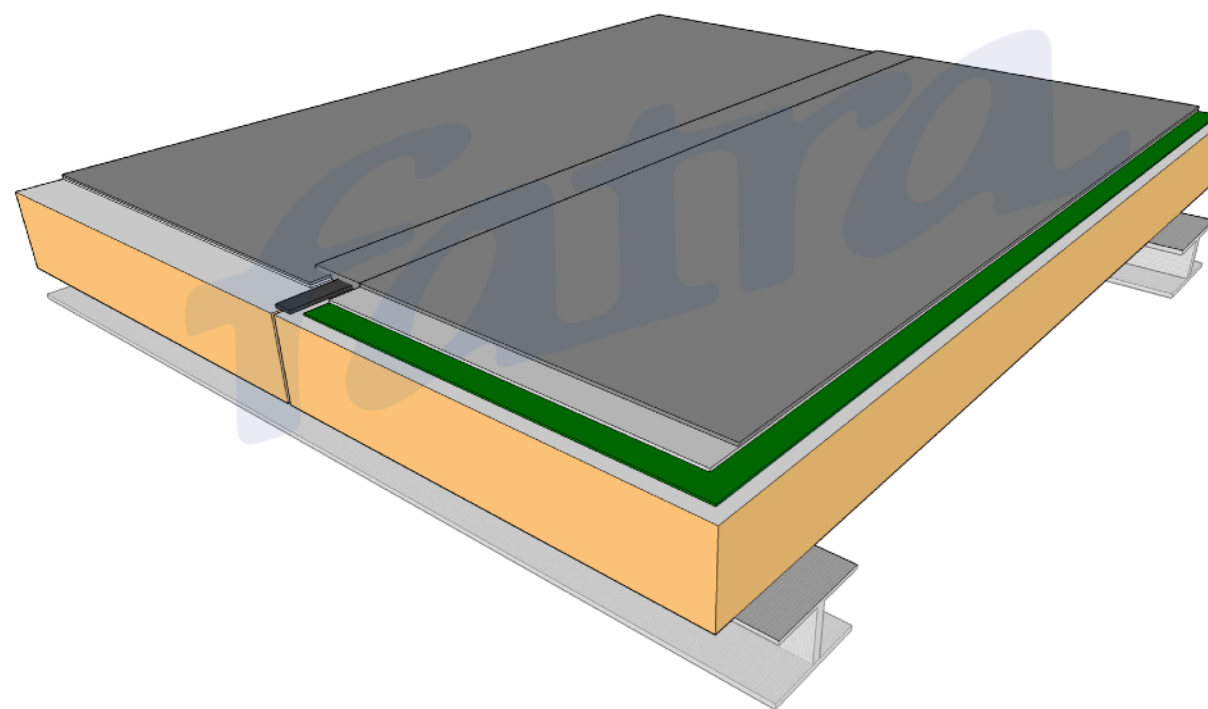
**PROJECT** | Summary

An existing cold store facility had excessive leaks to their refrigeration warehouse where the sealant between the roof panels had dramatically failed. The client decided to replace the roof panels and opt for a proven waterproofing system that will not fail prematurely. Fatra proposed our Fatrafol 807v PVC membrane to fully adhered to the steel lined panel using our moisture curing polyurethane adhesive.

The Fatrafol PVC membrane has excellent shear and tear capabilities enabling the membrane to cope with the excessive movement the building is exposed to and not tearing the membrane at the panel joints.

This meticulously programmed and phased project required the best possible waterproofing system to protect from water ingress for a sustained period of time. If the warehouse experience water ingress it would cost tens of thousands of dollars a day in lost revenue and down time which is why the client trust a supplier of Fatras stature with a track record of over 75 years protecting our clients buildings and businesses from all elements.

**SYSTEM** | Overview



**PROJECT** | Overview

**Total Area**  
8,000m<sup>2</sup>

**Method of Application**  
Fully Adhered - Cold Store Panel  
**Membrane**

Fatrafol 807v PVC Membrane  
**Area of Application**  
Roof

**Industry/Sector**  
Refurbishment - Commercial

**Duration**  
8 weeks

**Completed**  
2017







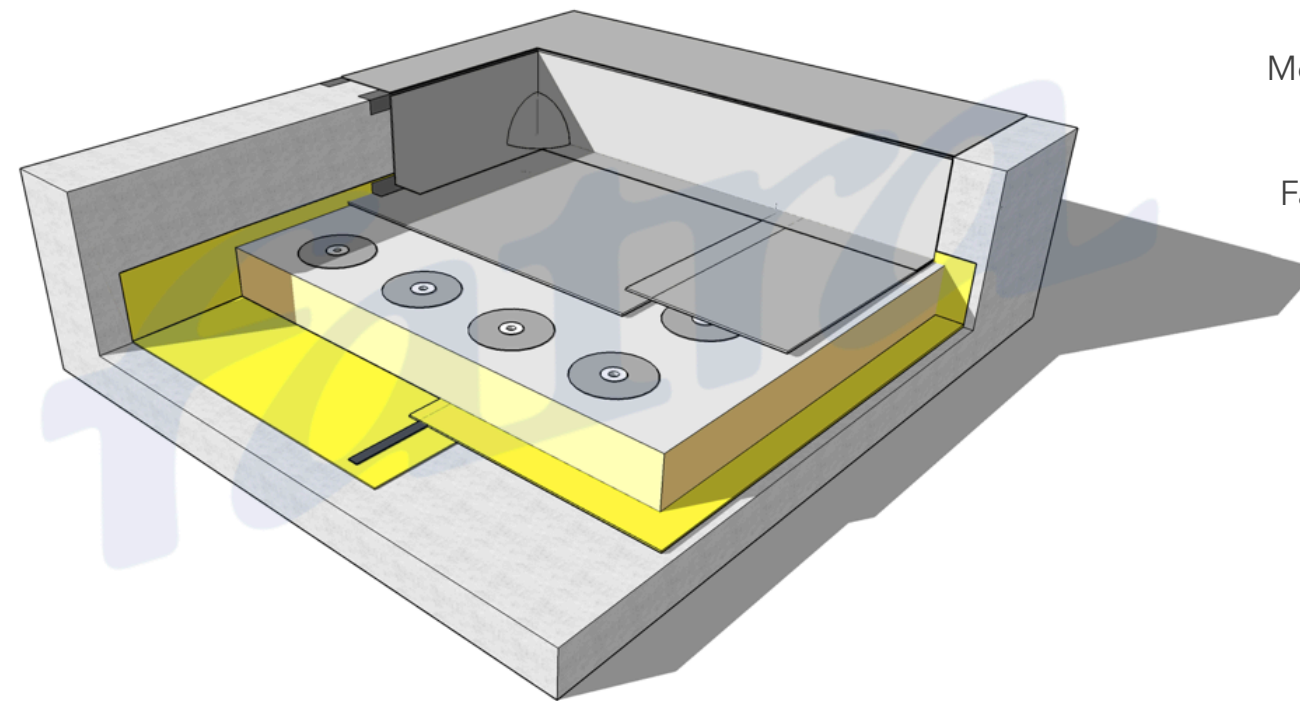
**PROJECT** | Summary

The new Sydney trains administration centre didn't cut corners with protecting their valuable assets. The client assessed the Fatra cool roof system vs a traditional bitumen membrane ballasted system and made the easy decision to move forward with this uniquely engineered system by Fatra.

Implementing our FatraPar vapour control layer sealed with Fatra butyl tape with a 70mm PIR insulation board mechanically fixed using telescopic tubes and fixings to reduce thermal bridging through the fixings and our Fatrafol 810v nylon reinforced PVC membrane over the insulation. This system not only removes the requirement for a ballast but also offers excellent thermal efficiency, reduced structural loading, fast & efficient testing capabilities and superior waterproofing performance.

The Fatra mechanically fixed system is engineered to AS/NZS 1170-2 (2011) - structural design actions - Part 2: Wind Actions as well as FM approved, BBA certified and ISO 9001 & 14001 certified.

**SYSTEM** | Overview



**PROJECT** | Overview

**Total Area**

1,700m<sup>2</sup>

**Method of Application**

Mechanically Fixed - Cool Roof

**Membrane**

Fatrafol 810v PVC Membrane

**Area of Application**

Roof

**Industry/Sector**

New Build - Commercial

**Duration**

6 weeks

**Completed**

2017



# OCEANSIDE | Birtinya QLD

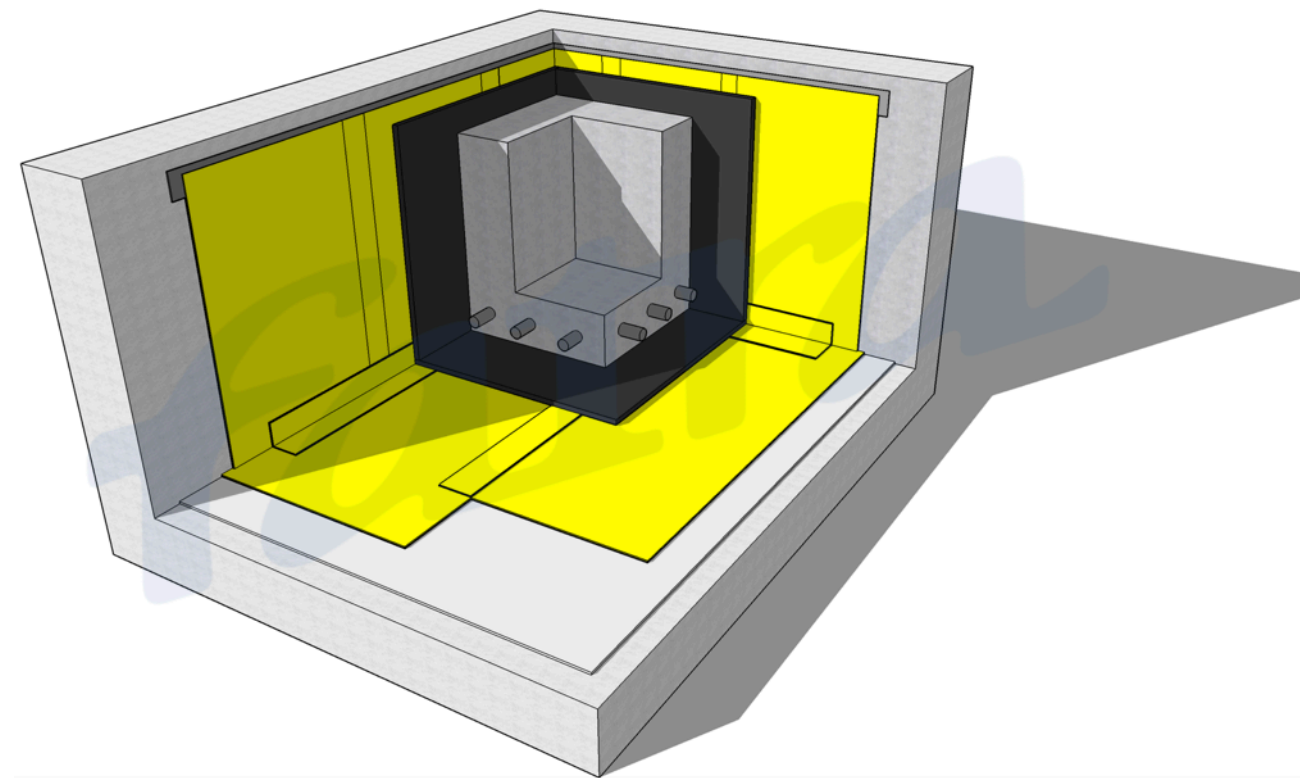


## PROJECT | Summary

The main contractor required a waterproofing system that was reliable and had a proven track record. Fatra proposed our Fatrafol 807v fleece back PVC membrane to be installed to the blinding slab and vertical pile walls to provide a reliable and water tight basement. This removed the requirement to install a geotextile fabric protection layer over the substrate prior to installing the PVC membrane reducing cost of material, labour and increasing productivity onsite. With all joints and terminations hot air fusion welded the system doesn't rely on adhesives, sealants or tapes to provide a waterproofed finish. A completely integrated basement system that is permanently fused together.

After generating a site specific specification outlining pile cap details, drainage and plumbing terminations, method of application for the vertical wall sections and reinforcement bars it was an easy choice for the builder to appoint a Fatra approved contractor to implement a high end, cost effective basement system.

## SYSTEM | Overview



## PROJECT | Overview

### Total Area

8,000m<sup>2</sup>

### Method of Application

Loose Laid

### Membrane

Fatrafol 807v PVC Membrane

### Area of Application

Basement

### Industry/Sector

New Build - Residential

### Duration

8 weeks - Phased

### Completed

2017



# MANSFIELD AVE | Caringbah, Sydney NSW



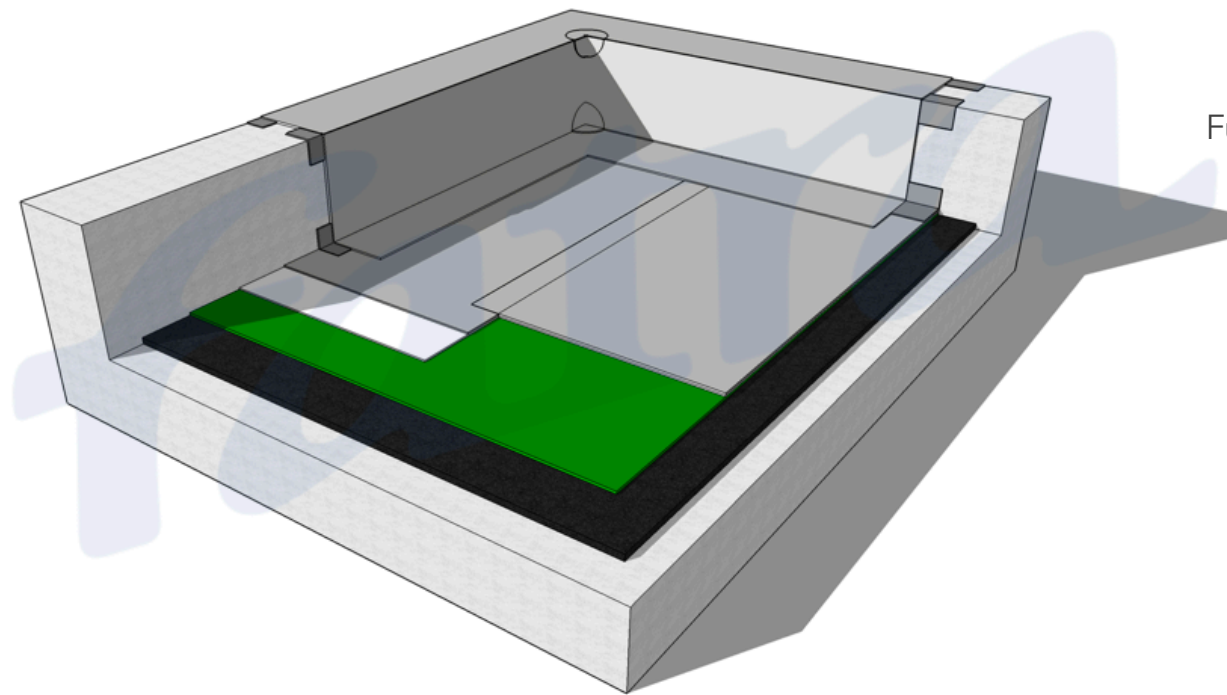
## PROJECT | Summary

An existing multi residential complex had been experiencing excessive leaks to the apartments below due to the existing bitumen membrane laps rupturing as a result of excessive expansion and contraction. Multiple attempts to repair the joints had been carried out to rectify the leaks however the Start decided to fix the problems once and for all.

Fatra provided a site specific specification to fully adhere our Fatrafol 807 300gsm fleece back PVC membrane over the existing bitumen membrane. This method removed the requirement to remove the existing membrane reducing cost and also noise disruption to the existing tenants.

Our fully adhered system over an existing failed membrane offers the client and tenants a way of rectifying a leaking roof efficiently, cost effectively and with minimal amount of noise.

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**

800m<sup>2</sup>

**Method of Application**

Fully Adhered over Existing Bitumen

**Membrane**

Fatrafol 807 PVC Membrane

**Area of Application**

Roof

**Industry/Sector**

Remedial - Residential

**Duration**

3 weeks

**Completed**

2016



# HAVEN HOTEL | Glebe, Sydney NSW



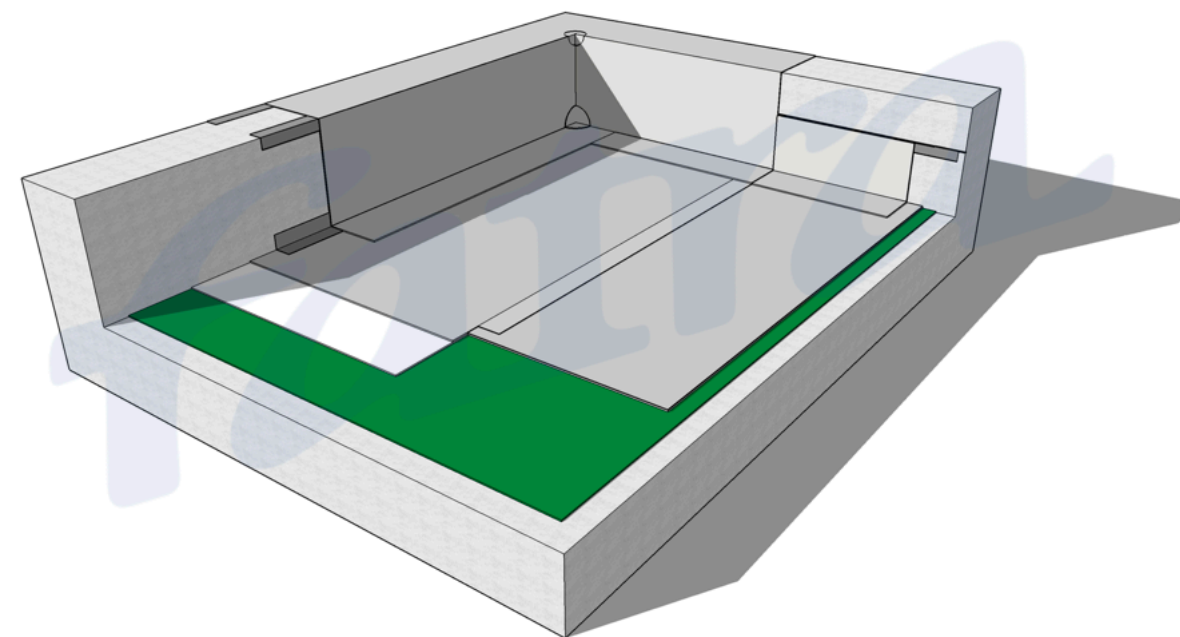
## PROJECT | Summary

The Haven Hotel in Glebe underwent a complete refurbishment in 2015 and required waterproofing to the podium, walkways, cavities and planter boxes. The client chose a premium waterproofing system to protect the structure from water ingress.

The podium areas had our Fatrafol 807v PVC membrane fully adhered to the concrete substrate using our spray applied adhesive with a timber decked finished over the top. The planter boxes had our Fatrafol 810v nylon reinforced PVC membrane, which has been tested to FLL standards for root resistance, installed with the membrane lapping into the cavities where our Fatrafol 804 membrane was installed providing a consistent and fully integrated waterproofing system.

All the walkways were also fully adhered prior to being tiled complete with door sub-seals to comply with Australian standards and provide a sustainable, reliable and proven waterproofing system with a life expectancy in excess of 30 years.

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**

800m<sup>2</sup>

**Method of Application**

Fully Adhered/Mechanically Fixed

**Membrane**

Fatrafol 807v & Fatal 810v PVC Membrane

**Area of Application**

Podium, Planter Boxes, Cavities & Walkway

**Industry/Sector**

Refurbishment - Hospitality

**Duration**

3 weeks

**Completed**

2015



# STANLEY STREET | Woollahra, Sydney NSW



## PROJECT | Summary

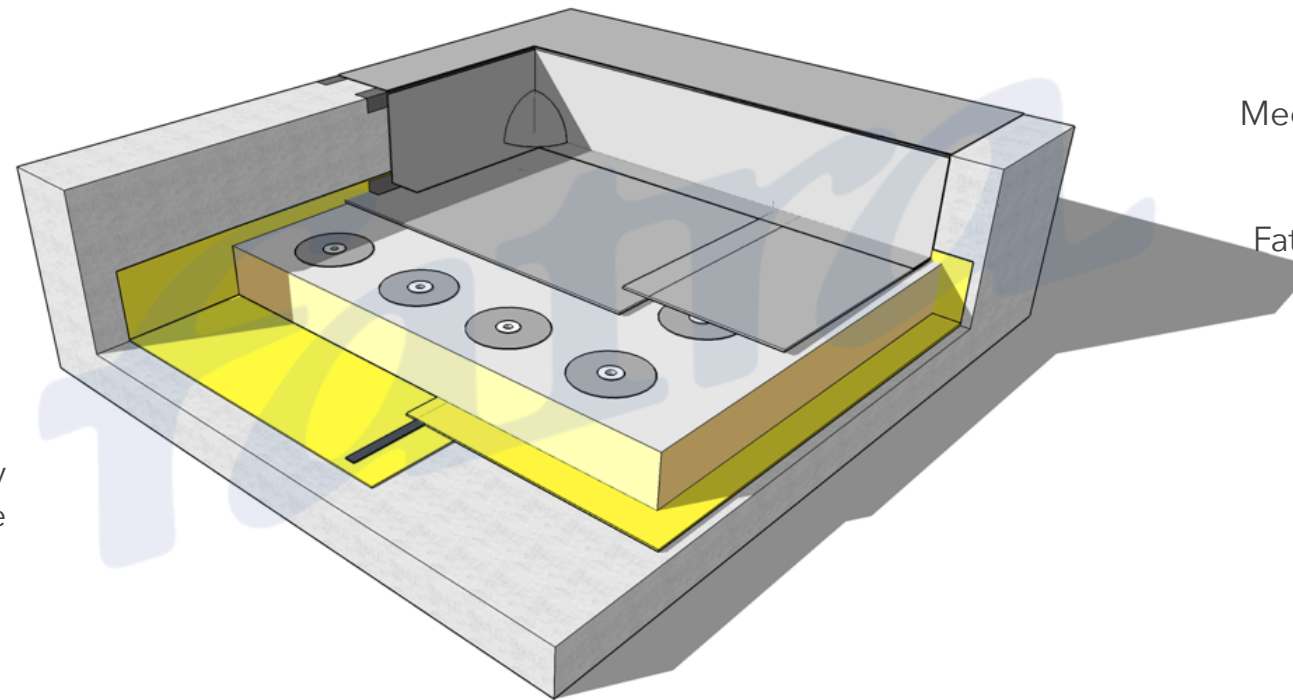
Another large multi storey residential complex which had an existing single ply membrane installed which had failed due to installation errors throughout the roof. The consultant required a system which improved the overall thermal efficiency of the building and protect the apartments from water ingress.

Fatra worked closely with the consultant to provide a specification and wind load calculation report for our unique Fatra cool roof mechanically fixed system.

The existing structure had new Telstra towers installed and posed a number of tricky details. Fatra provided a full site of site specific drawings and worked closely with the roof safety system company to implement a new fall arrest system to the roof to enable our approved contractor to work safely whilst installing the system and also provide a safe work area for future maintenance.

Our Fatra cool roof system improved the overall thermal efficiency of the building and brought the R value of the building to the Australian Standards. Implementing a 70mm PIR and our Fatrafol 810v PVC membrane this building is now protected from all elements.

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**  
800m<sup>2</sup>

**Method of Application**  
Mechanically Fixed - Cool Roof

**Membrane**  
Fatrafol 810v PVC Membrane

**Area of Application**  
Roof

**Industry/Sector**  
Remedial - Residential

**Duration**  
4 weeks

**Completed**  
2016



# OCEAN STREET | Narrabeen, Sydney NSW



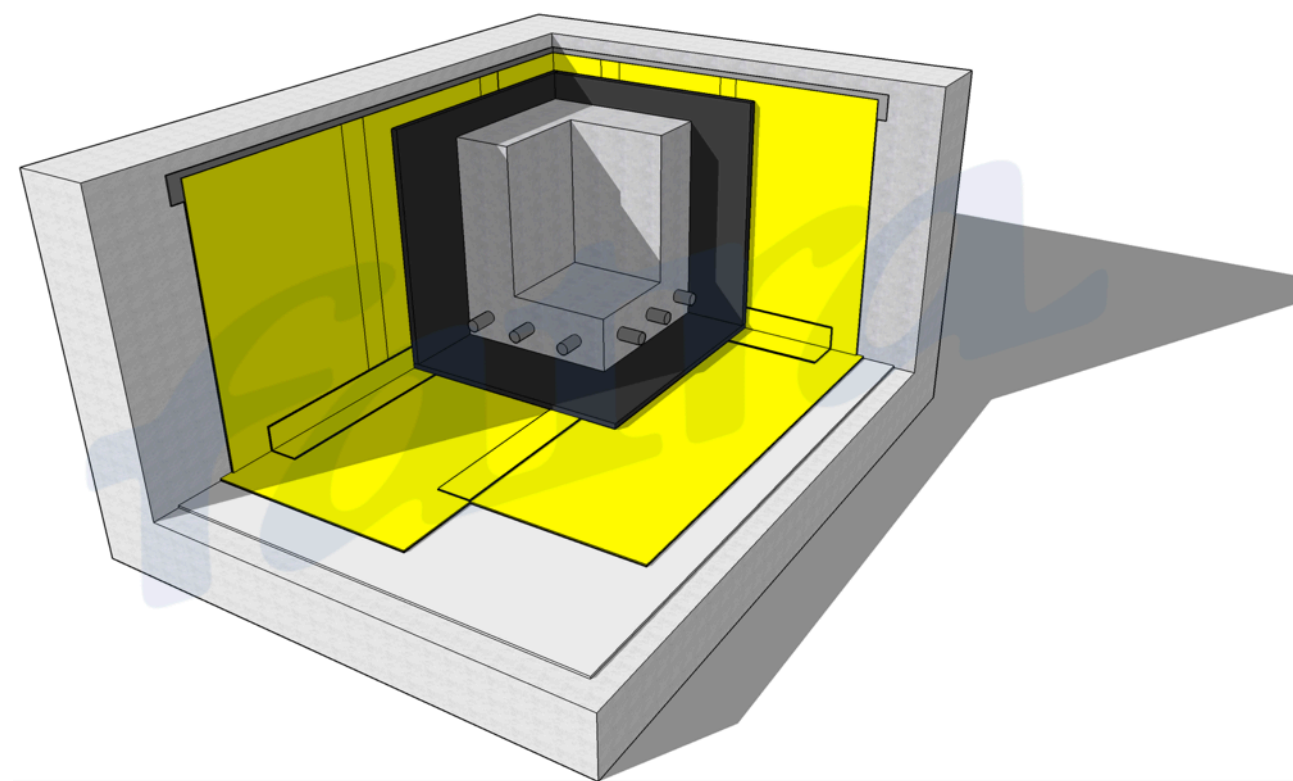
## PROJECT | Summary

This high end residential set on the northern beaches coast required a premium waterproofing system to match the premium construction. The foundations of a building is one of the most important aspect of a building to protect from water ingress which is why the Fatrafol 803 basement membrane was installed to this project.

The Fatrafol 803 is resistant to high water pressure, radon and seeping water from the outside. All joints are hot air fusion welded and doesn't rely on tapes or sealants along the joints providing a fully integrated waterproofing system.

This long and extensive basement proved to be a tricky application however the Fatrafol 803 offers excellent weldability and ease of use to reduce installation times and the yellow face and black scrim make it very easy to identify any breaches in the membrane caused by external contractors. A patch is simply hot air fusion welded over the breach and is fully waterproofed.

## SYSTEM | Overview



## PROJECT | Overview

**Total Area**

500m<sup>2</sup>

**Method of Application**

Loose Laid/Spot Fixed

**Membrane**

Fatrafol 803 PVC Membrane

**Area of Application**

Basement

**Industry/Sector**

New Build - Residential

**Duration**

5 days

**Completed**

2017



# RETIREMENT VILLAGE

Kellyville, Sydney, NSW



## PROJECT Summary

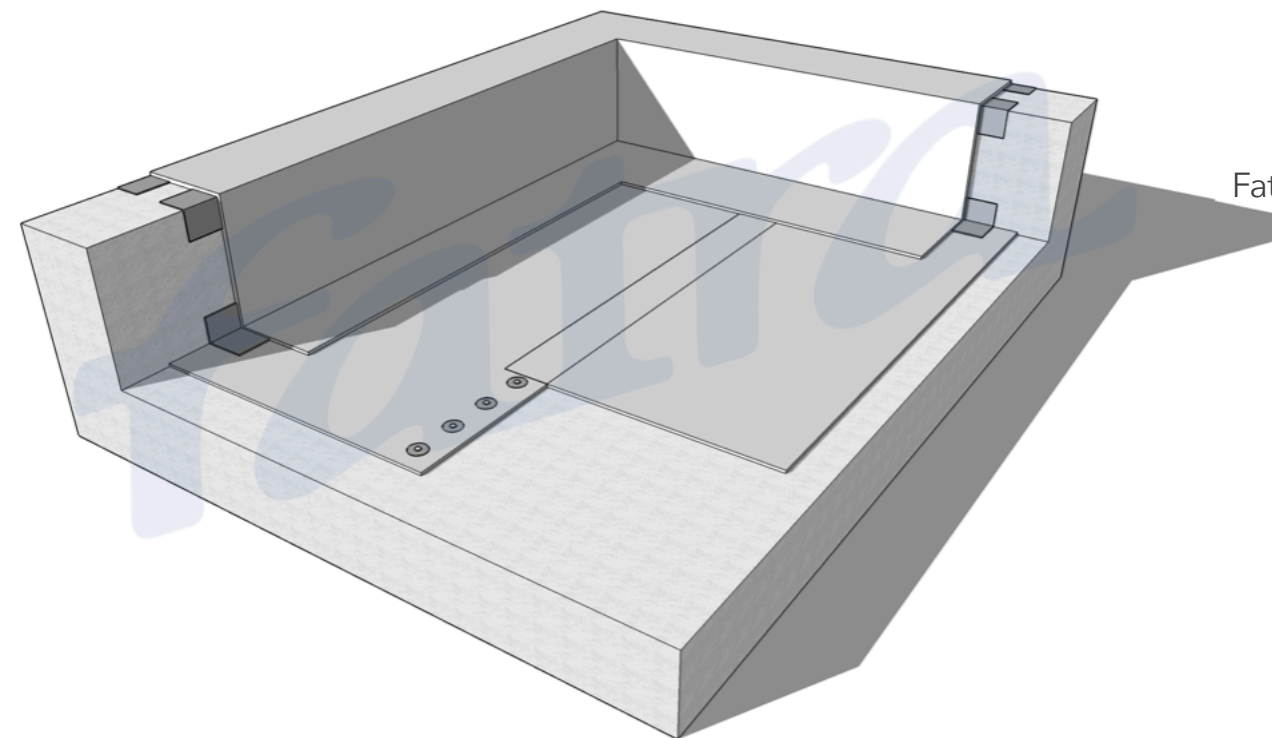
This luxury retirement village required waterproofing to the circular roof top, planter boxes and balconies. After presenting to the client the importance of investing in a premium waterproofing system to protect this high end construction it was an easy choice to opt for a Fatra PVC membrane system.

The roof areas and planter boxes had our Fatrafol 810v nylon reinforced PVC membrane mechanically fixed to the concrete substrate. The client opted for a mechanically fixed system which provided a cost effective method of installation and excellent wind uplift capabilities.

Circular roofs take a high level of skill and knowledge which is what all our approved applicators have. Tapering and meticulously timing termination metals and membrane straps takes time and care to ensure the best aesthetics are achieved.

As with all projects, Fatra provided onsite support and guidance to ensure the highest standard of install was achieved and we met our clients expectations.

## SYSTEM Overview



## PROJECT Overview

**Total Area**  
600m<sup>2</sup>

**Method of Application**  
Mechanically Fixed  
**Membrane**

Fatrafol 810v PVC Membrane

**Area of Application**  
Roof/Planter Boxes

**Industry/Sector**  
New Build - Residential

**Duration**  
4 weeks

**Completed**  
2015



# STATION ROAD | Auburn, Sydney NSW



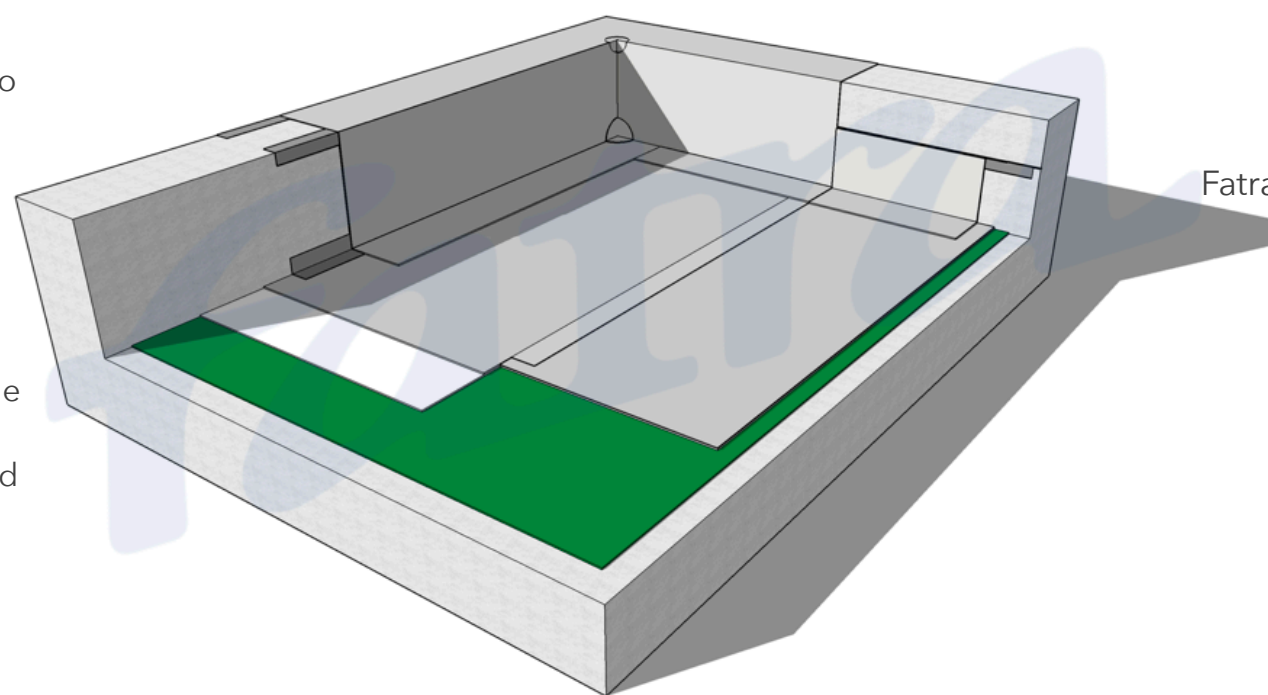
## PROJECT | Summary

A large residential complex with multi roof areas had a number of issues with their existing bitumen and liquid membrane waterproofing that had failed prematurely. Fatra took on the challenge to provide a site specific specification for each individual roof. Due to the varying substrates, existing membrane and detailing Fatra had to provide different membranes and systems which provided the client with a cost effective system that wouldn't compromise the performance of the Fatrafol PVC membrane systems.

On the upper roof & lower canopy roof a fully adhered system was installed over an existing bitumen membrane using our Fatrafol 807v PVC sheet membrane. On the lower roof a mechanically fixed system was implemented over an existing failed bitumen membrane with a 300gsm geotextile separation layer to protect the PVC from contamination.

Overall the project took a lot of management, knowledge and expertise to execute the waterproofing system to the highest standard. Nothing Fatra can not handle.

## SYSTEM | Overview



## PROJECT | Overview

### Total Area

2,000m<sup>2</sup>

### Method of Application

Fully Adhered & Mechanically Fixed

### Membrane

Fatrafol 807v & Fatrafol 810v PVC Membrane

### Area of Application

Roof

### Industry/Sector

Remedial - Residential

### Duration

8 weeks

### Completed

2015







### PROJECT | Summary

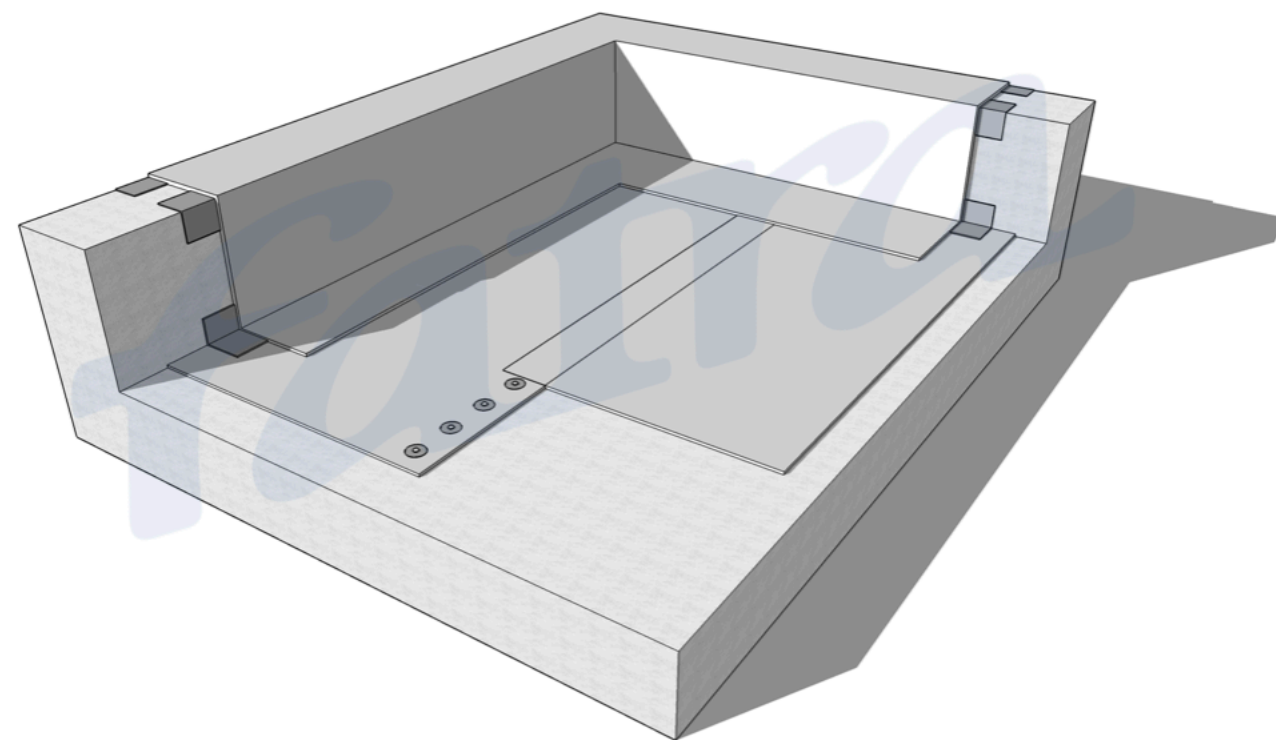
The iconic No1 Martin Place in the heart of Sydney CBD was in need of the waterproofing membrane system to be refurbished due to the existing bitumen membrane failing. A building with such amazing heritage and history deserved a premium waterproofing system which is what it received.

Our Fatrafol 810v nylon reinforced PVC membrane was mechanically fixed over the existing failed bitumen membrane with 300gsm geotextile fabric separation layer installed to protect the PVC membrane.

The project had a number of obstacles to overcome to ensure the PVC membrane could perform to the highest standard. Fatra worked onsite with our approved applicator to overcome the tricky obstacles to ensure the specification was adhered to and the waterproofing system was installed to the highest standard.

Once complete the client wanted to use the area for communal and event purposes so a paver system was installed over the PVC membrane to protect the membrane from damage whilst extending the life expectancy of the PVC membrane itself.

### SYSTEM | Overview



### PROJECT | Overview

**Total Area**  
800m<sup>2</sup>

**Method of Application**  
Mechanically Fixed  
**Membrane**

Fatrafol 810v PVC Membrane

**Area of Application**  
Roof

**Industry/Sector**  
Remedial - Residential

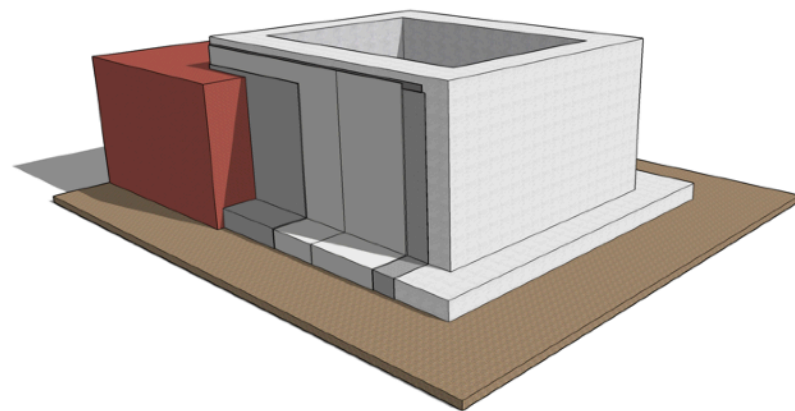
**Duration**  
4 weeks

**Completed**  
2016





**CREMORNE** | Sydney



**Total Area**

1,000m<sup>2</sup>

**System**

Mechanically Fixed - Retaining Wall

**Membrane**

Fatrafol 810v PVC Membrane

**Area of Application**

Roof

**Industry/Sector**

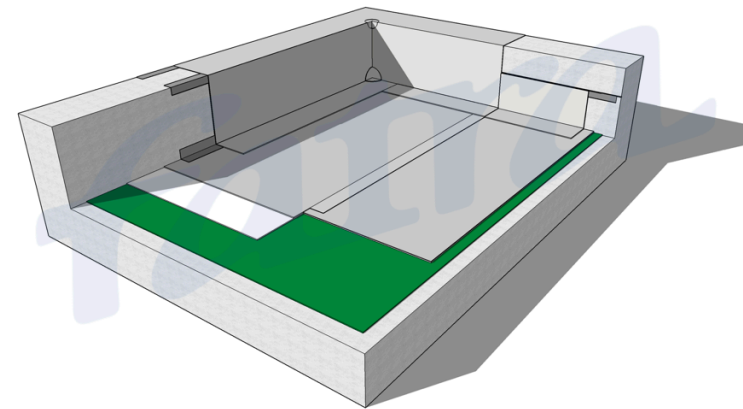
New Build - Residential

**Completed**

2015



**BONDI BEACH** | Sydney



**Total Area**

300m<sup>2</sup>

**System**

Fully Adhered - Roof

**Membrane**

Fatrafol 807v PVC Membrane

**Area of Application**

Roof

**Industry/Sector**

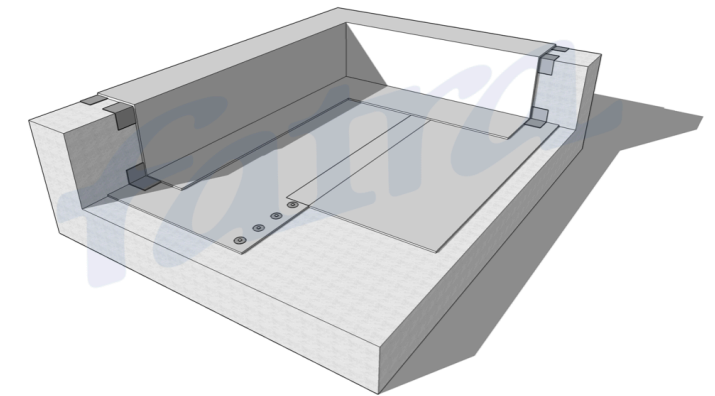
New Build - Residential

**Completed**

2015



**SEAFORTH** | Sydney



**Total Area**

350m<sup>2</sup>

**System**

Mechanically Fixed - Roof top

**Membrane**

Fatrafol 810v PVC Membrane

**Area of Application**

Roof

**Industry/Sector**

Refurbishment - Residential

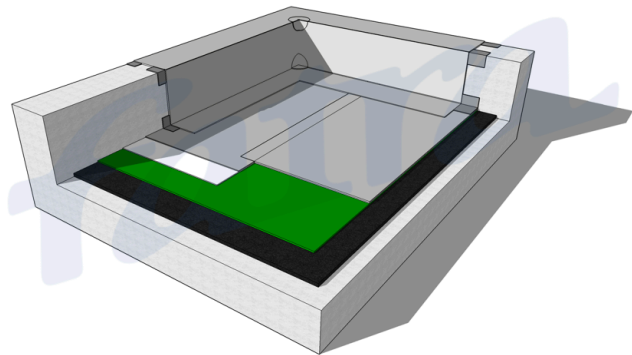
**Completed**

2015

OTHER Projects



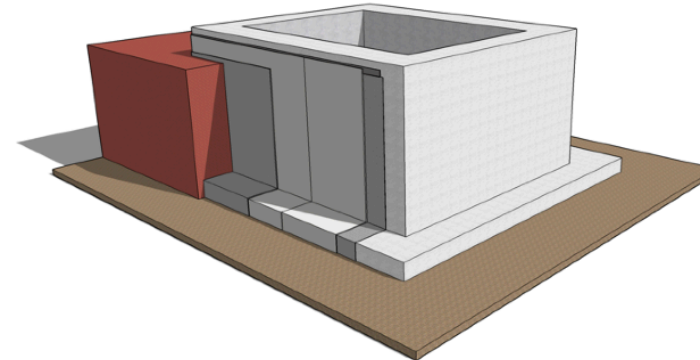
PITT STREET Sydney



**Total Area**  
500m2  
**System**  
Fully Adhered Bitumen Refurb  
**Membrane**  
Fatrafol 807 PVC Membrane  
**Area of Application**  
Roof  
**Industry/Sector**  
Refurbishment - Commercial  
**Completed**  
2015



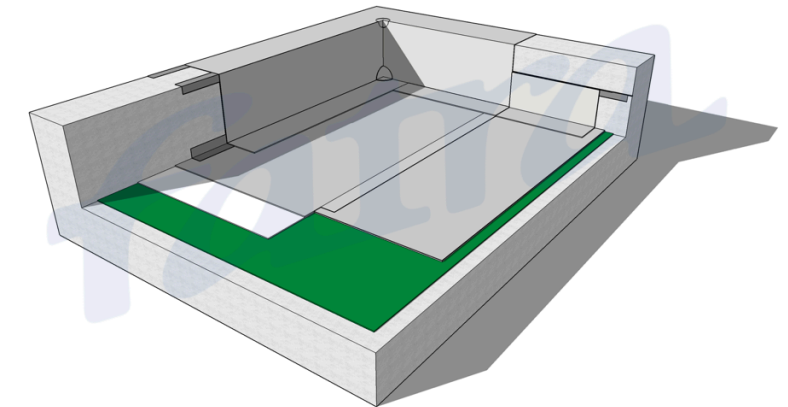
SURREY HILLS Sydney



**Total Area**  
750m2  
**System**  
Mechanically Fixed - Retaining Wall  
**Membrane**  
Fatrafol 810v PVC Membrane  
**Area of Application**  
Basement  
**Industry/Sector**  
Refurbishment - Residential  
**Completed**  
2015



TAMARAMA Sydney

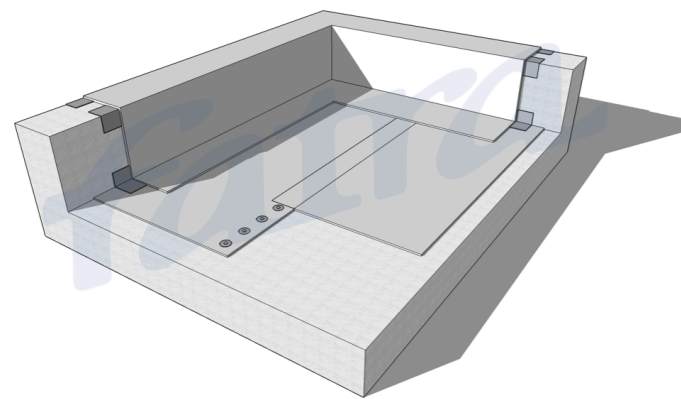


**Total Area**  
400m2  
**System**  
Fully Adhered  
**Membrane**  
Fatrafol 807v PVC Membrane  
**Area of Application**  
Balconies & Roof Top  
**Industry/Sector**  
New Build - Residential  
**Completed**  
2016

OTHER Projects



WESTFIELD Kotara



**Total Area**

700m<sup>2</sup>

**System**

Mechanically Fixed

**Membrane**

Fatrafol 810v PVC Membrane

**Area of Application**

Roof

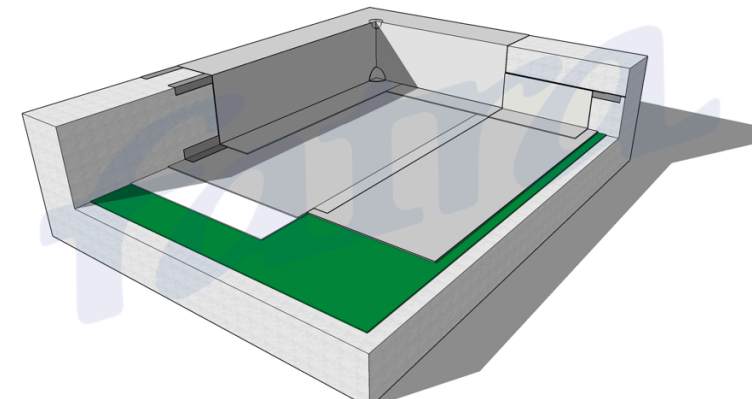
**Industry/Sector**

Remedial - Commercial

**Completed**

2016

BANKSTOWN Sydney



**Total Area**

900m<sup>2</sup>

**System**

Fully Adhered

**Membrane**

Fatrafol 807v PVC Membrane

**Area of Application**

Balconies/Podium

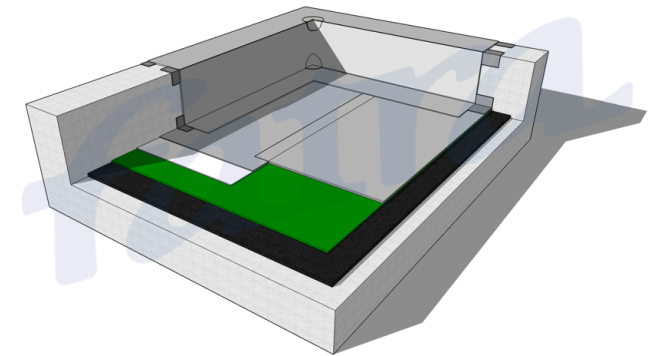
**Industry/Sector**

Refurbishment - Residential

**Completed**

2017

TAMARAMA Sydney



**Total Area**

700m<sup>2</sup>

**System**

Fully Adhered Bitumen Refurb

**Membrane**

Fatrafol 807 PVC Membrane

**Area of Application**

Roof Top

**Industry/Sector**

Remedial - Commercial

**Completed**

2017

*fatra*<sup>®</sup>

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