

# **Nuraply 3PM Roofing Membrane Installation Manual**

**Nuralite Waterproofing Limited**  
[www.nuralite.co.nz](http://www.nuralite.co.nz)

**2016 Edition 8**

December 2016

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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Nuralite roofing and waterproofing systems are intended for application by trained and approved installers. A listing of the current approved applicators are available at [www.nuralite.co.nz/Applicators\\_By\\_Region/](http://www.nuralite.co.nz/Applicators_By_Region/). These notes are a technical guide to the application of the Nuraply 3PM range. The Nuralite organisation also maintains a team of skilled technical representatives who are prepared to demonstrate the correct application of Nuraply 3PM on site or to discuss any problems which may arise regarding its use.

Please note that Nuraply has a long product defects warranty period and every precaution must be taken to avoid any possible installation faults. Application according to these guidelines must be insisted upon by the Applicator to ensure that full benefits of the warranty period are maintained.

### **TECHNICAL ADVICE**

For advice on unusual or abnormal conditions or details, please contact Nuralite Waterproofing Ltd,

Auckland phone: 09 579 2046 fax: 09 579 5136  
Email: [info@nuralite.co.nz](mailto:info@nuralite.co.nz)

### **OTHER REFERENCE DOCUMENTS**

This manual forms one part of the full technical documentation for the Nuraply 3PM system.

Technical literature (available at [www.nuralite.co.nz](http://www.nuralite.co.nz))

- Nuraply 3PM detail drawings
- Material Safety Datasheets
- Technical Datasheets

Specifications

- Generic Nuraply 3PM specifications
- Project specific specification

### **Document Control**

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The only person authorised to change this plan is the Managing Director, John Simmons.  
BEAL must be copied into each version.

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

The Nuraply 3PM Roofing Membrane System complies with the New Zealand Building Code.

As an explanation of compliance with Building Code criteria under s269 (1) of the Building Act 2004

Clause B1.3.2	Compliance has been established by testing to ensure that tensile strength, elongation, compression, and seam strength are adequate.
Clauses B1.3.3 (e) and (m)	Compliance has been established with testing to ensure resistance to water absorption, hydrostatic pressure, differential movement over substrate joints are adequate.
Clause B2.3.1 (b)	The membrane is part of the envelope building element and assessed for 15 year durability period based on in-service history in excess of this period.
Clause B2.3.2 (a)	The membrane is not installed over elements with lesser durability than 15 years.
Clause E2.3.1	The roof membrane system will repel water from entering the building and roof design will ensure it can shed precipitated moisture and melted snow.
Clause E2.3.2	The membrane system has been tested for water absorption, vapour transmission, hydrostatic pressure and joint seam strength to satisfy this requirement.
Clause E2.3.6	The membrane system provides for cross flow venting or for ceiling space ventilation.
Clause E2.3.7 due allowance has been given to;	
(a)	The consequences of failure have been considered through specified repair and maintenance requirements, multiple drainage paths and the ability of the system to tolerate ponding (standing water three days after cessation of flow)
(b)	Being a double layer system, the effects of any uncertainty in or from the sequence of construction can be accommodated.
(c)	Variation in the properties of materials and in the characteristics of the site are accommodated. The membrane has a tolerance for substrate variations and environmental factors.
Clause F2.3.1	No gases liquid or particles are emitted by materials that could give rise to harmful concentrations on surface s or in atmosphere of any space.

Compliance with other clauses have been considered and found not applicable.

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### **1. Statement of Use & Limitations**

#### *Use*

Nuraply 3PM double layer torch on membrane system provides a durable waterproofing system for installation by approved installers, on new and existing roofs and decks of any size. Installation is in accord with this manual Nuralite 3PM Roofing membrane Installation manual 2016 Edition 8 available on the Nuralite website and the Nuralite Building Products Quality Plan 2016 v1 assessed by BEAL Certification Services Ltd

On a structure complying with the New Zealand Building Code, it may be installed directly onto the following substrates

- H3.2 treated plywood substrates complying to AS/NZ 2269 (2012) (directly or with Enertherm PIR Boards between) with treated timber\* trim, battens and framing where timber is detailed and Nuralite product is directly applied or
- concrete substrates complying to NZS 3101 (2006) (directly or with Enertherm PIR Boards between) or
- NPM 900 metal tray decks with Enertherm PIR boards between.

Nuraply 3PM system is a tough, reinforced, bituminous waterproofing membrane suitable for light maintenance foot traffic. It may be installed on a cold roof with insulation installed (by others) below the substrate or as a warm roof (known as Nuratherm) with Enertherm insulation installed (by Nuralite applicator) above the substrate

The system may be installed in all NZS 3604 Wind Zones, up to and including Extra High.

#### *Limitations*

The design and construction of the substrate, framing timber, metal overflashing, cladding, fascia, control joints, junctions and allowances for ventilation, movement, condensation control, snow and fire safety provisions is specific to each building, and therefore is the responsibility of the building designer and building contractor. These matters are all outside the scope of this CodeMark.

\* All timber products must be treated but must not be treated with LOSP (light organic solvent preservative) nor CuN (copper nitrate).

Any construction details outside those listed in this manual are outside the scope of this CodeMark.

When used on existing projects, it is the responsibility of the property owner to have the structure and substrate assessed by a suitably qualified person and to the satisfaction of Nuralite Waterproofing Ltd. For this CodeMark to be applicable the substrate material is limited to only those approved within this manual.

The slopes allowable are clearly set out in the table on page 6. For low slope roofs the designer of the substrate should take into account the intended use of the roof or deck to ensure continued compliance with the Building Code. While the membrane is tolerant of ponding (standing water that remains after 3 days of cessation of flow), excessive ponding is undesirable as it contributes loads and encourages dirt buildup by reduced rain washing

While the membrane has been assessed for melted snow, any junctions above the membrane must be considered by the designer in relation to snow and hail and the behaviour of melt water.

Potable water may be collected off the finished roof surface though it is recommended that Nuraglaze is applied, and a filter and first flush diverter are installed.

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Not for use as a directly trafficable deck surface. On decks the membrane must be protected from pedestrian traffic with a floating tile or timber deck surface laid onto Nurapads or Nurajacks.

The membranes must be installed only by Nuralite Waterproofing Ltd approved installers.

Attention must be paid to application temperature ranges and the necessary requirements for storage of products.

## **2. Health and Safety**



An applicator's wellbeing is paramount.

**Do not enter a worksite, commence work or continue working if:**

1. You have not been adequately trained by your employer
2. You have not been briefed about the workplace hazards by the site manager
3. You do not have proper clothing, footwear, safety & workplace equipment.
4. You witness unsafe practices or you believe the workplace is unsafe.
5. You see wet or rainy conditions



**Use your commonsense and speak up if anything concerns you.**

A few points of particular relevance to Applicators are:

1. Applicators must wear protective clothing including a hard hat and suitable footwear. In particular, heat resistant gloves must be worn to reduce the risk of torch flame and heated bitumen coming into contact with skin. Footwear should have soft, non-slip soles.
2. Working with a gas torch is hazardous and requires care both for the Applicator, other associated personnel, and other persons on the work site.
3. Daily checks of all gas equipment to ensure that it is in good working order and safe for use. All personnel who use this equipment should be trained in its proper use and maintenance.
4. As torch-work can create the risk of fires, including smouldering fires, the Applicator must be trained in fire prevention and the proper extinguishing of fires. On every job fire extinguishing equipment must be kept close to the Nuraply 3PM installation area and be in good working order.
5. First aid equipment must be provided on site and work personnel trained in first-aid procedures.
6. Experience and training for working at height is important, including understanding restraint procedures. Nuraply 3PM systems are normally applied to either roofs or decks, which are usually 2.5m or more above the ground. All work carried out in such situations require sufficient safety and protection to avoid falls.
7. All applicators must have a current Site Safe passport.

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### **3. Project Administration/Supervision**

Nuralite & you, the applicator, are in a partnership designed to achieve the installation of many high quality Nuraply 3PM systems.

Nuralite works hard to get jobs specified by Architects. The Applicator is responsible for the quality control and the installation of the Nuraply 3PM membrane systems and quotations.

All work will rapidly dry up if the application is not performed in a professional manner. Not only must the workmanship be high quality, but the service and support to the builder and project manager should equal that to ensure we all get repeat business.

Nuralite recommends a pre-inspection and/or a pre-job meeting of all parties involved with the Nuraply 3PM system to identify any areas of concern. It is important for a successful installation to resolve and clarify any issues or project requirements, work programme and issues with other trades, the project documentation required product storage, and site health and safety matters.

Before commencing work, the Applicator must determine:

- That all the building consents have been issued and the specifications and detailed drawings are workable and suitable for the project
- That there is nothing that will compromise the Applicator's required responsibility under the NZ Building Code or your ability to follow these instructions and thus issue a warranty on your workmanship
- That no existing conditions at the site prevent the Applicator from performing in a professional and safe manner
- That the product to be installed is as per the official consent documents.
- A substrate readiness checklist has been completed by the head contractor (see section 4)

If you have any concerns about the project, your working conditions or the substrate preparations then raise them with the site manager, your employer or a Nuralite representative.

All applicators have the right to refuse to commence work until they are satisfied they can complete the job safely and to the highest standards.

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### 4. Nuraply 3PM Products

The complete Nuraply 3PM system has a number of installation methods and base sheet options which are selected based on factors such as the substrate material and the risk of moisture vapour entering the system and causing condensation.

All projects are done with a double layer of membrane

#### Product Selection and Limitations

Substrate	Plywood	Concrete	Existing Membrane	Concrete with Tapered Boards or Flat Enertherm (Nuratherm)	Plywood with Enertherm (Nuratherm)	NPM900 with Enertherm (Nuratherm)
Minimum Finished Fall (excluding gutters) (A)	1:80	1:80	1:80	1:80	1:80	1:80
Gutters	1:100	1:100	1:100	1:100	1:100	1:100
Substrate Comments	Using 17mm (roofs) or 21mm (decks) plywood, rafters at 600 centers, nogs at 600 centers.	Create required slope with a screed. Wait for concrete and screed to cure.	Confirm substrate is sound	Tapered boards are 1:60. Nuralite can assist with layout.	Create required slope in the plywood	Create required slope in the NPM900
<b>Adhesive/Primer</b>						
Nurabond #10	Yes					
Nuraflux		Yes	Yes	Yes	Yes	Yes
<b>Vapour Barrier</b>						
Nuraply ALU				Yes	Yes	Yes
<b>Insulation ( B )</b>						
Enertherm			Yes (C )	Yes	Yes	Yes
Tapered Enertherm at 1:60			Yes (C )	Yes		
<b>Insulation fixing</b>						
IKO Fix			Yes		Yes	Yes
Nurabond Hi Foam PU				Yes		
<b>Basesheet</b>						
Nuraply 3PB	Yes					
Nuraply 3PB-SA	Yes					
Nuraply 3PV		Yes	Yes			
Nuraply 3PV-SA				Yes	Yes	Yes
<b>Capsheets</b>						
Nuraply 3PM	Yes	Yes	Yes	Yes	Yes	Yes
Nuraglaze	Optional	Optional	Optional	Optional	Optional	Optional
<b>Substrate Venting</b>						
Nuravents	Yes	Yes	Yes	No	No	No

#### Notes

A) Roofs must have a minimum finished fall of 1:80. This is the fall that is achieved on the roof at the completion of construction. Designers should make allowance for construction tolerances and deflection to ensure the falls are achieved onsite.

B) The entire system, vapour barrier, insulation and waterproofing is known as a Nuratherm Warm Roof

C) Enertherm may be installed over existing roofs to improve the insulation of the building



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### **Basesheets**

#### *On Plywood*

NURAPLY 3PB provides a nominally 3mm thick 10m long x 1m wide polymer modified bitumen sheet, first layer in two layer applications on plywood polymer. Cold adhesive glued with heat welded lap joints and a sand upper surface.

#### *On Concrete or existing Nuralite membrane*

Nuraply 3PV Sheet is a nominally 4mm thick, 7.5m long x 1m wide polymer modified bitumen sheet, first layer waterproofing, heat fused, and 40% bond pattern integral vapour diffusion underside, to avoid vapour blisters from substrate moisture. Heat welded onto Nuraflux primed substrate. With heat welded lap joints and a sand upper surface.

#### *On Enertherm PIR panels*

Nuraply 3PV-SA Sheet is a nominally 3mm thick, 10m long x 1m wide polymer modified bitumen sheet, first layer waterproofing. With a 40% bond pattern integral vapour diffusion underside, to avoid vapour blisters from substrate moisture. Self-adhering onto Enertherm PIR insulation panels substrate. With heat welded lap joints and a sand upper surface.

### **Capsheets**

#### *Mineral Chip*

Nuraply 3PM Sheet is a nominally 4mm thick, 7.5m long x 1m wide, polymer modified bitumen sheet. Heat fused onto the basesheet underlay with heat welded lap joints, and a prefinished mineral chip upper surface.

Nuraply 3PM is available in five colour options; Pure White, Slate, Charcoal, Green or Red. Pure White is precoated in the factory with a smog converting system.

A thin coating of Nuraglaze may be applied to enhance the systems appearance and is a recommendation if potable water is being collected.

### **Additional Components Supplied by Nuralite**

#### *Nuraply ALU*

Roofing membrane with glass fibre reinforcement, topside finished with polyester reinforced aluminium foil and under-side coated with self-adhesive SBS modified bitumen. Applicable as vapour barrier for roofing systems in buildings with high humidity conditions. (*Labelled: IKO Shield PRO ALU/SA 20m*)

#### *Enertherm*

Enertherm is a 100 % CFC, HCFC and HFC-free insulation board with a core in hard polyisocyanurate foam, coated on both sides with a multi-layer gastight aluminium complex. (*Labelled: IKO Enertherm*)

The entire Warm Roof system of vapour control, insulation and membrane waterproofing is known as Nuratherm Warm Roof.

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### *IKOFix*

Polypropylene telescopic sleeves for fixing membrane and insulation. Screws supplied in lengths to suit the installed insulation.

### *Nurabond High foaming PU Adhesive*

A permanent elastic high performance moisture-cured single part polyurethane adhesive with light foaming capacity for bonding bituminous roofing membranes, vapour control layers and rigid insulation boards. For use on various substrates including profiled metal decking, existing bitumen membranes, concrete, timber etc. (Labelled: *IKOPro PU Adhesive*)

### *Nurabond No 10*

Cold adhesive for Nuraply Products, mainly onto plywood substrate. 15L pails with coverage of 2m<sup>2</sup>/litre.

### *Nuraflux Primer*

For specific priming to improve adhesion such as old dry bitumen, basement walls & concrete substrates. 25L pails with coverage of 5m<sup>2</sup>/litre (Labelled: *IKOPro QuickDry Primer*)

## **Accessories Supplied by Nuralite**

### *Nuraglaze*

Clear acrylic glaze to seal chips and retain appearance 15l pails with coverage of 10m<sup>2</sup>/litre

### *Profili Bitumen Filet*

A 25mm triangle of bitumen that may be installed at internal corners instead of building a mortar filet.

### *Nurajacks & Nurapads*

A Tile or Paving support system that is height adjustable and includes a self levelling head to automatically compensate for the deck gradient or any difference in the level of the substrate. Allows the tile or timber deck to be independent of the waterproofing membrane.

### *Nuratrim*

A metal edge that provides a mechanical fixing of the membrane and watercheck. Designed to be installed on roof edges, verges and parapets without a slope.

### *Metal Scuppers & Sumps*

Fabricated for use with Nuraply 3PM. Available in 80, 100 and 150mm sizing with alternative dimensions available on request.

### *Termination Bar*

20mm x 3mm metal strip predrilled to allow mechanical fixation of the Nuraply 3PM membrane.

### *MS Detail liquid flashing*

MS Detail is a solvent-free, coloured, liquid, single-component waterproofing coating on the basis of MS Polymer technology.

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### **Accessories Supplied by Others**

#### *NPM900 Metal Tray (Supplied by Dimond Roofing)*

A metal tray deck substrate with wide ridges to support the Enertherm sheets.

#### *Sureflow outlets and overflows (Supplied by Allproof)*

The Sureflow series of roof outlets is robust means of connecting a roof system to an outlet drain. For use on flat roof applications for either commercial or residential buildings.

#### *WABO Roofcover Expansion joints (Supplied by BAS)*

Wabo RoofCover is an aluminum system engineered for flat and sloped roofs that are subject to thermal and seismic movement. Integral weather seals and moisture barriers keep outside elements from penetrating the structural opening and interior areas.

#### *FixAll 220 MS Sealant (Supplied by Holdfast)*

High performance MS sealant

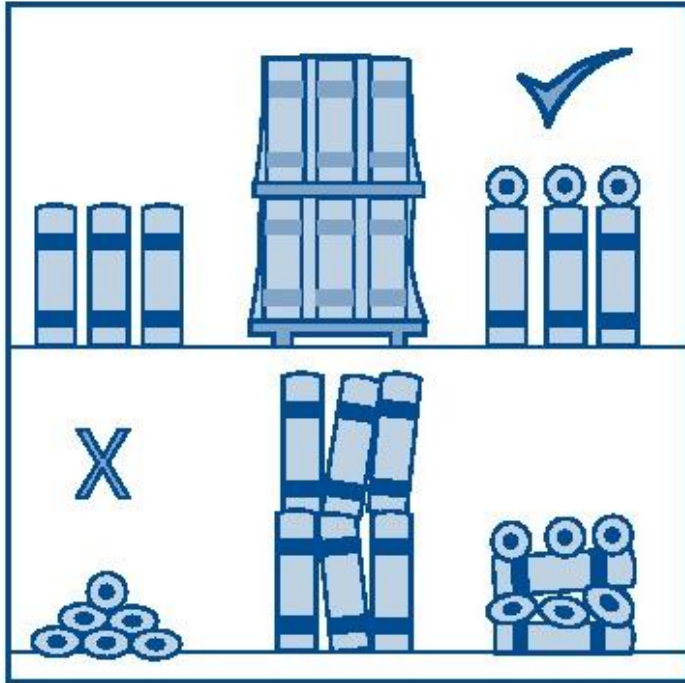
#### *Versicell & Bidim Geotextile (Supplied by Geofabrics)*

VersiCell® is a lightweight module interlocking plastic structural medium used for drainage. VersiCell® has a high strength (up to 100t/m<sup>2</sup>) which means it can be used in traffic areas. VersiCell® has a high flow rate of 70% of surface area available. Bidim® is a nonwoven needle-punched continuous filament polyester geotextile.

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### SITE STORAGE

- a. Store rolls on selvage end of roll and off the ground, with pails.
- b. Protect all products and equipment from sun, heat and frost.



### *Tools in General*

String line, gas torch (small 20mm for detailing & 50mm for large areas), 2 x fire extinguishers suitable for Class A, B, and C fires, moisture meter to measure moisture content of substrates, water spray bottle, spirit level, 2 x craft knife (straight & hooked blade), tape measure, straight edge, cutting board, margin trowel, tool belt & or tray, seam/printers roller, paint brush & roller, knee pads and gas lighter (BBQ)



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### **Substrate Readiness**

Many poor jobs are found to result from membranes being laid on top of a badly constructed substrate.

Before commencing laying any Nuralite systems, the installer must be sure that the substrate is ready by receiving a completed Substrate Readiness Checklist from the head contractor. The installer should contact Nuralite in case of any concerns.

Be sure to store the completed forms and supply them to Nuralite when the Materials Defects Warranty is applied for.

If a project has two or more substrate types, separate checklists must be completed for each substrate and any interface between the substrates is a matter of specific design for each building.

In particular,

#### **1. SUBSTRATE – NEW PLYWOOD**

- a. The top surface of the plywood should be sanded and plugged, to a minimum standard of C.
- b. Plywood substrate must be 17mm thick for roofs, 21mm thick for decks, and must be treated (CCA) H3.2 grade. Do not use LOSP-treated (light organic solvent preservative) or CuN treated (copper nitrate) plywood.
- c. All other timber products, ie, trim, battens and framing must be treated but must not be treated with LOSP (light organic solvent preservative) nor CuN (copper nitrate).
- d. Roofs and decks must be supported at 600mm centre maximum (including noggins & rafters), plywood sheets must be laid across supports and joints staggered (brick pattern), unless otherwise specified.
- e. Plywood and support timber dry, surface clean.
- f. Minimum Finished Constructed Falls
  - 1:80/0.7° for roofs or decks (Note 1)
  - 1:100/0.6° for gutters
- g. Sheets must be glued and then fixed with Grade 316 Stainless Steel 10 gauge countersunk screws.

Screw edges every	150mm}	about 20mm from the edges
Screw centres every	200mm}	throughout the plywood sheet
- h. Joints butted, upstands filleted, edges arrised.
- i. Drainage outflow details rebated.

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### **2. SUBSTRATE – NEW CONCRETE (TRUE IN PLANE, WOOD FLOAT SURFACE)**

- a. Minimum Finished Constructed Falls
  - 1:80/0.7° for roofs or decks (Note 1)
  - 1:100/0.6° for gutters
- b. Concrete substrate contains less than 5% moisture content (measured with a calibrated concrete moisture meter) and curing membranes removed.
- c. Upstands filleted, edges arrised, drainage outflows rebated.
- d. Surface clean and dry.

### **3. SUBSTRATE – NEW NPM900 METAL TRAY SURFACE**

This is the quickest and most cost effective substrate to install.

- a. Minimum Finished Constructed Falls
  - 1:80/0.7° for roofs or decks (Note 1)
  - 1:100/0.6° for gutters
- b. Supporting rafters spaced as per specification (varies depending on NPM900 gauge).
- c. Enertherm sheets stagger lay (fully offset) with correct falls and no ponding.

### **4. EXISITING SUBSTRATE**

When used on existing projects, it is the responsibility of the property owner to have the structure and substrate assessed by a qualified expert and approved by Nuralite Waterproofing Ltd. For this CodeMark to be applicable the substrate material is limited to only those approved within this manual. Attention must be paid to the substrate surface to ensure it has not deteriorated to the point of being unsuitable.

- a. Minimum Finished Constructed Falls
  - 1:80/0.7° for roofs or decks (Note 1)
  - 1:100/0.6° for gutters

*Note 1:* Roofs must have a minimum finished (constructed) fall of 1:80. This is the fall that is achieved on the roof at the completion of construction. Designers should make allowance for construction tolerances and deflection to ensure the falls are achieved onsite.



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### ***a. New Plywood Substrate Readiness Checksheet***

Project Name: \_\_\_\_\_

Form Completed by: \_\_\_\_\_

Company: \_\_\_\_\_

Area ready: \_\_\_\_\_

Applicator \_\_\_\_\_

Fax Number: \_\_\_\_\_

Structure complies to the New Zealand Building Code and plywood complies with AS/NZ 2269 ☐

H3.2 CCA treated plywood sheets 17mm thick for roofs, 21mm thick for decks. ☐

Plywood sheets supported at 600mm centred rafters and nogs for roofs and decks. Unless otherwise specified. ☐

Sheets stagger lay (fully offset) with falls as per plan. ☐

5mm clearances from all abutments, 5mm radius to all exposed edges. ☐

All sheet edges supported, fixed 150mm on edges and 200mm through girth, edges butt-jointed with no gaps except at abutments. ☐

Sheets fixed by gluing and Stainless Steel countersunk screw fixing. ☐

Fillets installed to all internal junctions and neatly fitted. ☐

Mitres neatly formed. ☐

Rainwater outlets and overflow recesses formed to fit outlets rebated into the Surface. ☐

Sharp edges and lips removed and cavities filleted. All joints flush. ☐

Plinths formed for any exterior ventilation, solar panels or fixtures. ☐

Substrate dry, clean, firm and suitable condition for laying . ☐

*When substrate is ready complete this form and fax to the Nuralite applicator*

Notes

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Signed by head contractor

Date:

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### ***b. New Concrete Substrate Readiness Checksheet***

Project Name: \_\_\_\_\_

Form Completed by: \_\_\_\_\_

Company: \_\_\_\_\_

Area ready: \_\_\_\_\_

Applicator \_\_\_\_\_

Fax Number: \_\_\_\_\_

Structure complies to the New Zealand Building Code and concrete complies with NZS 3101 (2006) ☐

Concrete cured with curing membranes removed. Concrete substrate contains less than 5% moisture content. ☐

Surface smooth and clean with falls as per plan. ☐

Cavities and cracks filled with repair mortar, flushed off and cured. ☐

Concrete surface firm with any soft concrete or laitance removed. ☐

Ponding areas removed. ☐

Roof drains and overflow recesses formed to fit rebated outlets. ☐

Mortar or Profili Bitumen fillets to all upstands and smooth 5mm radius to all external edges ☐

If terminating into a chase, pre-form the chase and ensure it's Straight and 20mm deep. ☐

Plinths formed for any exterior ventilation, solar panels or fixtures. ☐

Construction joints incorporated in slab as per designers speciifcation. ☐

Substrate clean, firm and suitable condition for laying the Nuralite systems. ☐

*When substrate ready complete this form and fax to the Nuralite applicator*

Notes

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Signed by head contractor

Date:



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### c. New ENERTHERM Substrate Readiness Checksheet

---

Project Name: \_\_\_\_\_

Form Completed by: \_\_\_\_\_

Company: \_\_\_\_\_

Area ready: \_\_\_\_\_

Applicator \_\_\_\_\_

Structure complies to the New Zealand Building Code ☐

Sheets stagger lay (fully offset). ☐

Confirm the substrate slope complies with plans. ☐

Rainwater outlets and overflow recesses formed to fit outlets rebated into the surface. ☐

Ensure only approved accessories to be used for drainage and venting. ☐

Review penetrations to minimize number and complexity. ☐

Any gaps in the insulation filled to prevent thermal bridging. ☐

Material fastened with the correct quantity of IKOfix Telescopic Fixing Plates and Fixing Screws (5 per sheet normally, 10 per sheet in Extra High wind zones). ☐

Edges of insulation supported by metal sheet ridges ☐

Plinths formed for any exterior ventilation, solar panels or fixtures. ☐

Substrate clean, firm and suitable condition for laying the Nuralite systems. ☐

*When substrate ready complete this form and fax to the Nuralite applicator*

Notes

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Signed by head contractor

Date:



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### d. Existing Roof Substrate Readiness Checksheet

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Project Name: \_\_\_\_\_

Form Completed by: \_\_\_\_\_

Company: \_\_\_\_\_

Area ready: \_\_\_\_\_

Applicator \_\_\_\_\_

The structure and substrate assessed in writing by a suitably qualified person ☐

Confirm the substrate is suitable with no signs of deterioration in the form of rust or rot. ☐

Cladding, doors and windows removed to allow upstands to be formed. ☐

Confirm the substrate slope exceeds minimum requirements. ☐

Rainwater outlets and overflow recesses formed to fit outlets rebated into the surface. ☐

Ensure only approved accessories to be used for drainage and venting. ☐

Review penetrations to minimize number and complexity. ☐

Plinths formed for any exterior ventilation, solar panels or fixtures. ☐

Substrate clean, firm and suitable condition for laying the Nuralite systems. ☐

*When substrate ready complete this form and fax to the Nuralite applicator*

Notes

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Signed by head contractor

Date:

## **5. Installing the Enertherm system**

### **a. Vapour Barrier**

- i. The amount of condensation depends on the temperature in-balance and the humidity of the internal air. Vapour barriers prevent moist air from reaching the dew point and so prevent condensation forming
- ii. Before laying the membrane, prime the substrate with Nuraflux primer.
- iii. When installing the membrane, ensure the Nuraply ALU vapour barrier covers the entire area and wraps up and around the insulation so there is no opportunity for vapour to enter the roof system from below.
- iv. Seal all penetrations carefully and repair any damage to the membrane.
- v. Because no condensation will form within the ceiling cavity there is no need to vent the ceiling when installing a Nuratherm warm roof.

### **b. Enertherm Boards**

- i. Lay the sheets in a brick bond fashion to prevent movement. The sheets can be cut with a knife or saw
- ii. Keep the sheets dry onsite and only install sheets that can be waterproof that day to prevent entrapping moisture.
- iii. It is vital that no thermal breaks exist in the system.

### **c. Fixing on Plywood or Metal Traydeck**

- i. IKO Fix fasteners are designed to penetrate the insulation and has the following advantages:
  - Reduces thermal bridging
  - Is cost effective because it uses shorter screws
  - No risk of the screw penetrating the membrane if someone stands on the fixing.
- ii. Secure the sheets with 5 fixing per sheet (the sheets are 1.2 m<sup>2</sup>, hence 4 fixings per m<sup>2</sup>). Increase fixings to 10 per sheet for Very High and above wind zones. The fixings should be inset by 200mm in each corner with at least one in the center.
- iii. If you notice the boards move when walking on them, use additional fixings to ensure the boards are stable and flat.

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

### **d. Fixing on Concrete**

- i. The Nurabond PU Adhesive is cold applied and has been specially developed to allow the safe, rapid partial bonding of roofing components.
- ii. It is moisture curing and tolerant of use in damp conditions. A degree of moisture is required, either in the atmosphere or on the surface, to allow the correct adhesive bond to be achieved. However, all liquid water should be removed from surfaces prior to use.
- iii. Curing time is dependent upon ambient temperature and humidity conditions however, curing will usually occur between 2 to 6 hours. The adhesive will take 24 hours to achieve full bond strength.
- iv. The minimum working temperature is 5°C. At low temperatures, warming the containers in hot water prior to use will improve handling characteristics. (N.B do not boil the product). Maximum working temperature 30°C.
- v. Surfaces to receive adhesive should be stable, clean and free of any liquid water (damp surfaces are acceptable). No priming is required.
- vi. Nurabond High Foaming PU Adhesive is applied straight from the container in strips. The maximum distance between the strips is 25cm. Use the spout on can for pouring lines of adhesive.
- vii. Weight the Enerthem boards once they are laid into the adhesive to ensure an good bond between the two surfaces.

## **6. Installing the Nuraply baselayer**

### **a. Layout**



- i. All surfaces must be checked to ensure they are dry, clean, smooth and free from sharp edges, loose or foreign materials, oil grease or other deleterious material that may affect the adhesion of the membrane or may damage the membrane.
- ii. Plan rolls layout for best drainage. Lay membrane from drainage outlets and gutters, low points and edges, up the roof /deck slopes. Nuraply is usually installed running down the slope to minimize water retention on the roof.



- iii. Be sure to run membrane down the length of the gutter – not across it. There should be no laps within 1m of the outlet.

- iv. Use chalk lines to insure straight neat lines of the finished membrane.



- v. Double thickness application is required at all internal and external corners, at upstands and turndowns. This will eliminate –
  - (a) The possibility of weakening the Nuraply membrane when tooling to angles,
  - (b) The double thickness increases the strength to withstand substrate movement and mechanical damage at these points.

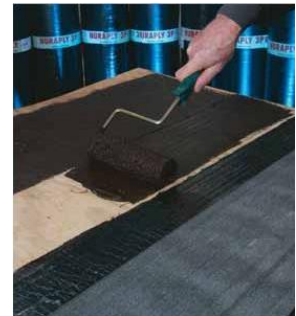


## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

### **e. Adhesion of Nuraply 3PB Sheet to Plywood Substrate**



- i. Install detailing (refer to g.) to all drainage outlets gutters and detailing in Nuraply 3PB, before laying the main roof. Ensure outlets are rebated to avoid build-up at outlets and to allow drainage outflow.
- ii. Use chalk lines to ensure straight neat lines to the finished membrane. Position the membrane roll to the chalk line, roll out to the required length and cut to size. Then roll back membrane half way point.
- iii. Apply the Nurabond No.10 Adhesive (using lambswool roller or notched trowel) to the area previously covered with membrane ensuring the correct coverage is used (one litre per two square meters)
- iv. On vertical surfaces, allow the Nurabond No.10 to tack off before fixing the Nuraply 3PB sheet. With gentle torch heat Nurabond No. 10 becomes like a contact adhesive.
- v. Whilst unrolling the roll into the Nurabond No10 use a correct size gas torch to lightly heat the membrane just enough to melt the protective film. Overlap previous rolls sides 80mm and ends 100mm ensuring all laps face downhill.
- vi. When using a full bed of Nurabond No. 10 adhesive, it is most important to ensure that no air or vapour is trapped under the Nuraply 3PB. Therefore it is recommended that a 500mm wide broom be used to eliminate air and vapour problems. Brushing across the Nuraply 3PB material and not along is the most effective way to achieve this.
- vii. After each two or three rolls are laid. Weld all lap joints carefully using Nuraply 3PM welding techniques, discussed below, and testing all joints progressively.
- viii. Welding and detailing with skill, creates perfectly fused laps, with minimal exposed smooth bitumen, and neatly angle tooled joint edges. Stagger the roll lying to avoid four corners meeting in one place.



### **f. Adhesion of Nuraply 3PV Sheet to Concrete Substrate**



- vi. Install detailing (refer to g.) to all drainage outlets gutters and detailing in Nuraply 3PV, before laying the main roof. Ensure outlets are rebated to avoid build-up at outlets and to allow drainage outflow.
- vii. Use chalk lines to insure straight neat lines of the finished membrane. Position the membrane roll to the chalk line, roll out to the required length and cut to size. Then roll back membrane half way point.
- viii. Apply the Nuraflux primer (using lambswool roller) to the area previously covered with membrane ensuring the correct coverage is used (one litre per five square meters).
- ix. Nuraflux is solvent based so allow to cure thoroughly before using gas torches nearby.

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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- x. Whilst unrolling the roll use a correct size gas torch to heat the membrane just enough to completely melt the protective film and start the base bitumen flowing. Overlap previous rolls sides 80mm and ends 100mm ensuring all laps face downhill.
- xi. After each two or three rolls are laid. Weld all lap joints carefully using Nuraply 3PM welding techniques, discussed below, and testing all joints progressively.
- xii. Welding and detailing with skill, creates perfectly fused laps, with minimal exposed smooth bitumen, and neatly angle tooled joint edges. Stagger the roll lying to avoid four corners meeting in one place.

### ***g. Adhesion of Nuraply 3PB-SA Sheet to Enertherm Substrate***



- i. Install detailing (refer to g.) to all drainage outlets gutters and detailing in Nuraply 3PB-SA, before laying the main roof. Ensure outlets are rebated to avoid build-up at outlets and to allow drainage outflow.
- ii. Use chalk lines to insure straight neat lines of the finished membrane. Position the membrane roll to the chalk line, roll out to the required length and cut to size. Then roll back membrane half way point.
- iii. Whilst unrolling the roll, peel away the protective film and use a roller or stiff broom to press the self-adhesive membrane to the substrate. Overlap previous rolls sides 80mm and ends 100m ensuring all laps face downhill.
- iv. After each two or three rolls are laid. Weld all lap joints perfectly using Nuraply welding techniques, discussed below, and testing all joints progressively.
- v. Welding and detailing with skill, creates perfectly fused laps, with minimal exposed smooth bitumen, and neatly angle tooled joint edges. Stagger the roll lying to avoid four corners meeting in one place.

***h. Making the Lap-Joint***

- i. To weld lap-joints use the round edged finishing trowel and heat gently. Insert trowel between sheets and lift the edge of the top sheet high enough to allow the torch flame to liquefy both surfaces.



- ii. Both hands must work together, moving back and forth along the sheet a distance of approximately 350mm. When the surfaces are melted, remove trowel and torch flame from between lap-joint.

- iii. Position hot trowel blade firmly on top of joint approximately 50mm back from the open edge and weld the sheets together with pressure from the hot trowel. Then joggle the top sheet along the back edge of the under sheet to an angle of approximately 45°. Approximately 30mm from the back of the joint is now welded together.



- iv. Re-lift the edge of the upper sheet reheat under it and trowel weld the middle 25mm of the lap with pressure from the trowel. Once again, re-lift the edges of the upper sheet, reheat, and with pressure from the trowel, weld the remainder of the lap to within 5mm of the front edge. Lift the front edge, reduce heat and then apply flame between the sheet edges.

- v. Seal the front with pressure from the trowel, ensuring this time that the trowel follows closely behind the flame. The edge of the trowel is then run along the front edge of the top sheet at about 45° to ensure a good seal.

- vi. Finally, finish the front edge to give a similar appearance to the joggled edge by adjusting the trowel angle and dressing the front edge. Each section of jointing (i.e. approx 350mm length) should be completely welded before starting the next section.



- vii. Always keep the trowel hot and scraped free of carbon build-up, to prevent Nuraply 3PM surface from dragging. A properly made lap joint should not be capable of being pulled apart at normal temperatures.

- viii. Random test finished and cooled joints with the hot trowel edges, as work progresses.



**REMEMBER: A SOUNDLY WELDED LAP-JOINT IS CRITICAL FOR THE SYSTEM TO REMAIN COMPLETELY WATERPROOF.**

***i. Installing Cap Sheet***



- i. Before proceeding, ensure the first layer has been completed, is fully bonded to the substrate with Nurabond No. 10 and that the welded joints are sound.

- ii. If practical, floodtest vulnerable areas.

- iii. If there has been an extended period between installing the baselayer and the capsheet then ensure the base layer is clean and dry. It may be advisable to prime the baselayer with Nuraflux primer.

## NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL

- iv. The laps of the cap sheet must be offset to the laps of the base sheet. Similarly with three or more layered systems.
- v. Weld the upper Capsheets so that they are fully bonded to the immediate under layer by applying heat to the top of the Basesheet and underside of the capsheet as you unroll the capsheet.
- vi. After each two or three rolls are laid. Weld all lap joints perfectly using Nuraply welding techniques, discussed in “5.c Making the Lap-joint”, testing all joints progressively.

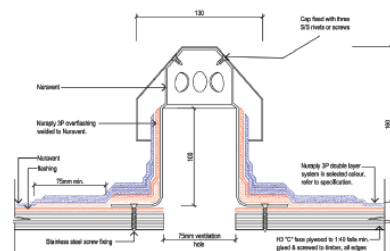
### ***j. Installing Metal Nuravents (not required on Nuratherm Warm Roof systems)***

The method for creating cross flow ventilation is a design consideration and so must be specified by the designer.

If using a cold roof system, ventilation of timber roof spaces, particularly skillion roofs, is recommended by Nuralite to assist with removal of interstitial moisture and mitigate high temperatures in the ceiling cavity. A practical and unobtrusive way is using soffit vents or parapet venting.

If a Nuravent is specified, install at high and low points to promote air flow in roof cavity, which should have interconnecting ventilating passages. It is recommended that a Nuravent is installed every 20sqm.

- i. Lay the Nuraply roof first. Consequently Nuravents can be installed on new or existing roofs.
- ii. Locate Nuravent positions. Cut holes through the substrate to ventilate roof spaces.
- iii. Screw down the vent base onto the substrate using at least 4 screws per vent. The vent base can sit directly on top of the installed Nuraply.
- iv. Weld the baseplate overflashing tight to baseplate edge and surrounding Nuraply. Ensure the flashing extends at least 75mm from the edge of the Nuravent baseplate
- v. Flash up the vent pipe with Nuraply.
- vi. Repeat steps iv and v so it is encased with two layers of membrane.
- vii. Fasten on the Nuravent cap using the three screws and washers provided.



**k. Nuraply 3PM Application in Gutters and Around Details**

Check that the gutter is properly built and stable with falls and fillets, all joints supported and details complete, before starting work.

i. Details



Complete the Nuraply 3PM details work first.

If particular details are provided for a project which you are unfamiliar or uncomfortable with, discuss the matter with a Nuralite technical advisor or the project architect.

ii. Sumps/droppers



Must be rebated the depth of the flange thickness + 3mm or double rebated

Must be lined to a depth of at least 100mm down the dropper.

Example: Cut a piece of Nuraply 3PM 25mm longer than the depth required and 25mm wider than the circumference of the dropper.

Note: Rule of thumb measure to find circumference.

Measure diameter of pipe x 3 plus lap, e.g. 75mm diameter x 3½ = 260 + lap (50) = 310mm.

Precoat the inside of the dropper (pipe) with No. 10 using whatever tool suits and allow drying.



Soften the resulting piece of Nuraply 3PM and form in shape, and place into pipe.

With gentle heat, carefully placed, and either a small roller or wooden block, form the Nuraply 3PM into the warm Nurabond No 10 on the pipe. When in place, heat and close the lap with a firm pressure.

The excess 25mm of material left standing above the sump floor is now heated and gently folded down cut on the sump floor into the outlet rebate. Now form a 100mm wide collar and turn the excess into the dropper to complete in readiness for the next stage.

iii. Sump Base

Normally the sump has four sides, but can vary in size and depth, but generally can be lined as follows:-

Measure sump base and add to each side 50mm all round, and cut a piece of Nuraply 3PM to this size. Pre-coat with Nurabond No.10 and while wet, fold all sides up 50mm to form a tray. Fold the corners neatly flaps facing into the tray and not behind.

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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First define the dropper size and cut an opening in Nuraply 3PM 1/3 size of dropper hole and then warm the area over the dropper, cut the opening of the Nuraply 3PM and place heat beneath it to warm the top edge of the dropper and the underside of the tray, then trowel down into place and with a hot trowel, work the Nuraply 3PM down into the dropper side.

iv. Sump sides

Measure the four sides of the sump and cut four pieces of Nuraply 3PM 50mm larger all round (as for base). Pre-coat with Nurabond No 10 and fold three sides into a tray.

Place the first side, heated between the side tray and the sump side, then block into position.

Heat the two side extensions and block or trowel into place, and then lift the bottom extension and heat and trowel down, ensuring that the corners are neatly placed and firmly down.

The extensions now left stand above the sump to/guttering base, are warmed and trowelled down onto pre coated Nurabond No.10.

v. Droppers placed in Gutter Sole

Quite often gutters do not have sumps, but have the dropper/outlets leaving the gutter from the sole direct over through the gutter side. Overflows generally are similar, and either passes through the side or is pipes raised above sole level.

Where this occurs, it is treated as per above, and turned out onto the sole, then a square or circle of Nuraply 3PM (apron piece) is placed over this (similar to the sump base), approximate size equals three times the dropper diameter. This is placed onto dry Nuraflux primer and is also pre-coated and heated into place with a trowel. The centre is pressed through and worked down.

vi. Stop Ends

These are dealt with in the same manner as the sump. A base piece is measured wider than the gutter by 50mm each side, is cut to extend up the end by 50mm and out onto the gutter sole by 150mm to 200mm. All areas are pre-coated with No.10, plus the back of the base tray, which is pre-folded and placed with heat and a trowel or wooden block.

Another piece is cut for the stop end, again over large by 50mm all round, pre-coated, folded, then heated and trowelled down. The extension at the top is heated and turned out over the gutter side and can be fixed. The two side pieces are cut to suit, plus 50mm wide extensions, and placed into position.

Other stop ends or intermediate stops or seismic stops are finished in the same way.

vii. Install the Nuraply 3PM lining

Insure that the gutter is clean and dry. Where practical, roll out the Nuraply 3PM and allow it to “relax” before installation into the gutter.

To minimise lap joints the gutter should be lined in one piece down the length of the gutter, covering the base and sides in one application, or in three pieces with a base



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## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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installed extending up the sides 100mm then separate side pieces extending down and forming 100mm laps on the base.

Use Nuraflux to prime all sides and ends of gutters. Allow the Nuraflux to properly dry before using gas torches, **LIQUID NURAFLUX IS FLAMMABLE**. Use full bed Nurabond No 10 on the base of the gutters. Do not allow the Nurabond No 10 to dry or skin before Nuraply 3PM is installed. If this occurs the base must be “torched” into position.

Cut the Nuraply 3PM to the girth of the gutter, plus extras for turnovers etc, the top and lay it along the gutter. Do not stretch the Nuraply 3PM when forming into the gutter. This can cause hollows in the finished job.

Warm the Nuraply 3PM gently with the gas torch and mould it down into the gutter. Ensure full bedding onto the Nurabond No 10 with no trapping of air. Use a roller or broom as required and tool all small details carefully.

A smooth metal roller is often preferred as it can be cleaned easily, has less chance of small stones or objects sticking to it which can damage the Nuraply 3PM membrane.



**REMEMBER: TAKE EXTRA CARE ON DETAIL WORK, “LOOK AFTER THE EDGES AND THE MIDDLE LOOKS AFTER ITSELF”.**

### ***I. Flood Testing***

If possible flood test vulnerable areas such as gutters and particularly outlets for 24 hours before signing off the job.

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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### **7. Trouble Shooting Problems and Repairs**

If bubbles occur in Nuraply 3PM – either

- a) Moisture has become vapour underneath the Nuraply 3PM, or
- b) Air is underneath the Nuraply 3PM, or
- c) Too much heat has been used in welding

With a) and b) the bubbles will be formed by the Nuraply 3PM lifting off the deck.

With c) the smaller “blisters” form only in the top layer of Nuraply 3PM.

- i. Check ventilation of plywood/timber decks.
- ii. Check for water entry somewhere.

a. When the moisture which causes the vapour-created bubbles has gone, or dried out, or stopped, the bubbles can be warmed and blocked down to remove the problem. It may also be necessary to cut open and torch down and overlay neatly with Nuraply 3PM to reseal bad areas.

b. Air trapped during laying can be removed by rolling or warming and blocking down. If this does not work, the bubbles can be cut and warmed and blocked down. After this an overlay piece will be required, welded onto the surface after priming with Nuraflux.

c. Blisters from welding can be warmed carefully and blocked down before recoating the surface.

d. Install Nuravents as required to ventilate roof space.

Repairs to the Nuraply 3PM system are performed by welding pieces of Nuraply 3PM to the cleaned and Nuraflux primed damaged surfaces:-

- a. Minimum repair of one small hole is a lap to lap infill strip of Nuraply 3PM 100mm wide to look like a lap joint.
- b. Larger/wider spread damage requires lap to lap infill pieces of Nuraply 3PM long enough to cover all damage plus 100 mm minimum each side of the damage.
- c. Ensure that the repaired Nuraply 3PM roof remains neat and attractive in appearance.

## NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL

### 8. Project Sign-off Form

Project Name: \_\_\_\_\_  
 Builder Firm: \_\_\_\_\_  
 Applicator Firm: \_\_\_\_\_  
 Area covered by QC Sheet \_\_\_\_\_

Roofing membrane installation item	Comply Y/N/Na	Comments
Substrate readiness form completed		
Underflashings installed to all corners and upstands (pay attention to parapets, gutters, junctions)		
Gutters correctly and neatly installed, particularly the internal corners		
Roof drains & overflows installed to specification and watertight		
Membrane adequately adhered to substrate with no evidence of bubbles or lifting. Correct quantities of primer or adhesive used as per specification.		
Cap sheet and basesheet fully bonded together, no areas of delamination.		
Cap sheet side laps 80mm and end laps 100mm fully welded and tidily seamed off.		
No sign of overheating/excessive bitumen bleed from laps (over 2-3mm).		
Cap sheet and base sheet laps offset satisfactorily. No three layer lap build-ups		
Overall installation free of wrinkles, creases and splits		
Nuravents installed to specification.		
All penetration details completed to specification including under/overflashing		
Standard details used throughout including at upstands, parapets, construction joints		
All non standard details installed as per pre-approved specifications (attach approved drawing)		
Gutters and outlets have been floodtested		
Any damage to cap sheet repaired to specification.		

Note: Where an element identified in the above checklist is not applicable, please record N/A in the comply column.



## NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL

### Project Sign-off Form cont.

Remedial action required:

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Note of damaged areas repaired:

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Signed Head Contractor

Date:

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Signed Applicator

Date:

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## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

### **9. Nuraply Maintenance Programme - Checklist**

To get the longest life from a roof it must be regularly inspected & maintained.

When first installed the building owner should arrange inspections each spring and autumn, to enable the effects of annual extremes of weather to be checked. Following that an annual program of roof inspection and cleaning should be established by the building owner as part of general building maintenance.

Roofs exposed to high levels of pollution or in close proximity to trees might require more frequent inspection.

Any inspection of a roof should include the interior of the building for signs of water penetration or condensation and for alterations, which may have affected the roof. Externally, abutting construction, which can affect the performance of the roof, should also be inspected.

#### **Annual Inspections & Cleaning**

##### **Inspections**

The inspection should concentrate on "high risk" areas such as hatches, drains and around all roof top equipment, as well as a general inspection of the entire roof. Inspections should also include the examination of the roof deck if possible from the underside for evidence of leaks, deteriorated decking, structural cracks or movement and other deficiencies. Parapets and edging should also be examined for evidence of cracking, deterioration and moisture infiltration.

##### **Damage**

If damage is found on the roof surface it should be repaired immediately by an approved Nuralite Applicator. They will use NURAPLY 3PM component products and special techniques to achieve neat, unobtrusive reinstatement of the NURAPLY 3PM.

##### **Cleaning**

Location, traffic level, effective drainage, and service use will dictate cleaning requirements. Sweeping clean followed by hose and broom washing of the NURAPLY 3PM roof is recommended, not waterblasting. If mould does appear it should be removed with a long-term mould killer such as Nuracide.

The building owner may do this themselves or engage an approved applicator if they prefer.

#### **Five Year Authorised Service Checks**

To maintain the material defects warranty, every five years the owner must engage an Approved Applicator to inspect the roof and ensure it remains in good condition. Failure to maintain the roof system will void the warranty.

The Applicator must thoroughly check the roof for signs of damage, water ingress or potential problems.

	<b>Applicator</b>	<b>Date</b>	<b>Signed</b>
<b>Inspection 1</b>			
<b>Inspection 2</b>			
<b>Inspection 3</b>			
<b>Inspection 4</b>			

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

### **INSPECTION CHECKLIST**

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#### **1) Surface:**

- a) bare patches in solar reflective finish or chippings;
- b) accumulation of loose chippings;
- c) accumulation of silt or vegetation;
- d) loose, inadequately supported or broken paving slabs;
- e) exposed insulation (protected membrane roofs);
- f) areas of ponding.

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#### **2) Membrane:**

- a) blistering, ripples, rucking, detachment;
- b) cracks, splits, tears, punctures, indentations;
- c) pimpling, pitting, crocodiling;
- d) pulled, unbonded laps;
- e) softening of surface.

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#### **3) Substrate:**

- a) depressions in surface;
- b) lack of support/soft support to membrane.

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#### **4) Rainwater outlets:**

- a) blocked;
- b) not bonded to membrane (if bonded type);
- c) clamping ring loose (if clamped type).

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#### **5) Upstands:**

- a) damaged/detached flashings;
- b) sagging membrane;
- c) splits, cracks, tears;
- d) membrane unsupported at fillet;
- e) unbonded laps;
- f) blistering.

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#### **6) Eaves/verge:**

- a) unbonded or peeling membrane;
- b) cracking/splitting or strain in membrane;
- c) displacement or signs of movement of edge trim.

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#### **7) Movement joints, upstand type:**

- a) unsealed capping joints;
- b) dislodged flashing/capping;
- c) unbonded laps.

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#### **8) Movement joints, proprietary flush type:**

- a) unbonded laps;
- b) splits, cracks, tears.

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#### **9) Abutting construction:**

- a) parapet copings cracked, loose, unsealed;
- b) damaged damp-proof course, lack of continuity in damp-proofing;
- c) open joints, cracking in construction;
- d) loose/missing pointing.

---

#### **10) Roof fixtures and penetrations:**

- a) upstand defects as above;
- b) rooflight glazing defects;
- c) damaged/missing flashings;
- d) balustrade/vent pipe, loose or missing flashing or collar;
- e) plant plinth damaged/missing flashing;
- f) lightning conductor tape, fixing loose/detached

## **10. Technical Datasheets**

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### **NURABOND NO 10 TECHNICAL DATA SHEET**

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#### **DESCRIPTION**

Nurabond adhesive is a water based adhesive designed to bond Nuraply roofing membranes to concrete, plywood and timber. It features good initial grab with excellent exterior weathering resistance.

#### **SPECIFICATION :**

Type: Modified synthetic latex / bitumen emulsion.  
Colour: Black.  
Viscosity: Brushable or spreadable.  
Solids: 55% approx.  
Cleaner: Water while wet, Bostik Solvent No.2 or 3 when dry  
Stability: Protect from frost. Not freeze-thaw stable.

#### **APPLICATION :**

All surfaces must be clean and free from grease, oil, release agents or dust etc. It can be applied using brush, roller.

NOTE: Concrete must be cured for a minimum of 27 days and have a moisture content of 18% or less. Plywood and timber must have a moisture content of 18% or less and be of the correct standards.

#### **PACKAGING :**

15 litres plastic pail

#### **STORAGE :**

Store in cool, dry conditions out of direct sunlight between 5° C and 25° C. This product MUST be protected from frost.

#### **SHELF LIFE :**

12 months under normal temperature conditions and in original containers.

#### **VERSION :**

Version 1                      3rd October 2006

#### **IMPORTANT NOTICE:**

The above recommendations are intended for the assistance of users and are of a general nature. They are based on our experience and judgement but because the conditions under which, and the materials with which our products are used, are beyond our control our recommendations must not be regarded as amounting to legal warranty or as involving any liability on us.





## NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL

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### NURAFLUX PRIMER

*IKO QuickDry Primer*

#### TECHNICAL DATA SHEET

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#### DESCRIPTION AND AREAS OF USE

Nuraflux Primer is a bitumen based adhesive solvent solution which is specifically formulated to provide excellent adhesion for Nuralite Waterproofing Membranes under many kinds of surface conditions. Nuraflux Primer is an integral part of the Nuralite Waterproofing System and sufficient primer must be used on dry surfaces to condition them to be dust free so that the substrate is suitable for the application of Nuralite Waterproofing Membranes.

Used to prime all structural concrete, masonry, or wood surfaces on which waterproofing membranes will be used.

Designed to be used on applications down to  $-4^{\circ}\text{C}$ .

May be used on horizontal surfaces, but remains tacky, and precautions must be used in this application to prevent contamination of the Primer surface prior to installation of the membrane.

May be used on all concrete block and brick wall conditions.

#### APPLICATION

Nuraflux Primer may be applied with roller, brush or spray. A roller with a heavy nap should be used to carry sufficient material to the area being primed.

Apply all Nuraflux Primer to a clean, dry, dust free and frost free surface at a coverage of approximately 5 sqm/litre. The primer should be spread sufficiently to avoid areas of excess material. Areas of excess material will lengthen the drying time on the application of the primer.

Nuraflux Primer will dry in a minimum of one hour - may dry quicker due to drying conditions, such as wind and warmth.

This product is black in colour and will remain tacky when dry.

The application of primer should be limited to what can be covered with Waterproofing Membrane in one working day. Any areas not covered with membrane during the day must be reprimed - be sure to cover all open containers when not applying primer, as the primer is volatile.

#### SAFETY, STORAGE & HANDLING INFORMATION

Nuraflux Primer vapours are flammable. User should review Material Safety Data Sheet (MSDS) for this product and follow safety instructions listed therein.

#### TRANSPORT CLASSIFICATION

IMDG Class 3.1  
UN No. 1294

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**NURAGLAZE**  
**TECHNICAL DATA SHEET**

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**Description:**

NURAGLAZE is a water based, interior/exterior coating with a unique cross linking technology that gives a tough, hard wearing, satin finish.

NURAGLAZE is designed for use on new or existing Nuradeck membrane deck systems or over Nuraply 3PM mineral chip membrane.

Once applied, the NURAGLAZE surface is hard wearing yet does not get dirty easily.

**Typical Uses**

Provides a film over the Nuraply 3PM to bond chips down, keep the membrane surface cleaner and aid with collection of potable water. May be tinted to alter the appearance of the Nuraply 3PM mineral chip membrane.

**Physical Properties:**

Binder Type	Unique cross-linking Acrylic
Solvent	Water
Colour	White though dries clear. Can be tinted any colour
Finish	Satin 15%gloss @ 60°C (Approx)
Dry Time	30 minutes at 20°C. Allow 12 hours before walking.
Recoat time	2 hours at 20°C
Number of Coats	2
Film Thickness	100 microns WFT
Theoretical Coverage	8-10m <sup>2</sup> /litre over bare concrete,
(per coat)	12-14m <sup>2</sup> /litre over painted surfaces
Thinning & Clean Up	Water

**Surface Prep Nuraply 3PM**

- Ensure surface is in sound condition, dry and free from dirt, dust, grease or oils.
- Brush or blow loose chips from the membrane surface.

**Application**

- Apply 1 or 2 coats of NURAGLAZE. The application should be thin to ensure the glaze does not develop a "milky" appearance.

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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### **Performance & Limitations Performance**

Non yellowing  
Easy application properties with excellent flow and levelling  
Excellent durability

### **Limitations**

Do not paint if air or surface temperature is less than 10°C or above 35°C .  
Cold or humid conditions may require longer dry times.

### **Health & Safety**

Waterborne  
NURAGLAZE is a water reducible non toxic coating. It is non flammable and requires no special handling. We recommend the use of a barrier cream for hands when applying.  
Transport UN No. : 1263  
Class : N/A  
Hazchem : N/A

### **Storage**

Avoid freezing or temperatures in excess of 50°C.

### **IMPORTANT NOTE**

This product as supplied by **Nuralite Waterproofing Ltd** is warranted to conform to those physical properties listed in the Typical Properties section of this information sheet. Otherwise the information presented including that on suggested areas and methods of use is in good faith only and is specifically without recommendation or guarantee as to particular suitability. It is the responsibility of the purchaser to satisfy itself that the product is both fit for the purpose intended and that their use of the product can and does achieve that purpose in any particular instance or condition. Usage rates are presented as an initial guide only and do not account for wastage or substrate or build variations.

## **Nuraply ALU Vapour Barrier**

*IKO Shield PRO ALU/SA 25m*

### **TECHNICAL DATA SHEET**

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#### **DESCRIPTION AND AREAS OF USE**

Roofing membrane with glass fibre reinforcement, topside finished with polyester reinforced aluminium foil and under-side coated with self-adhesive SBS modified bitumen.

The combination of glass fibre reinforcement and aluminium finish layers ensures a dimension-stable, accessible roofing membrane, which facilitates stepping on metal deck during operation.

- The bottom side is coated with self-adhesive, SBS modified bitumen, which guarantees an immediate and high adhesion strength to the substrate surface.
- The top is finished with a polyester reinforced aluminium foil.
- The bottom side is finished with a removable silicon foil.

#### **APPLICATION**

Self-adhesive vapour barrier on metal deck, accessible during operation.

Also as vapour barrier on fully substrate substructures, if it is dry, dust and fat free.

Nuraply ALU Vapour Barrier is applicable as vapour barrier for roofing systems in buildings with high humidity conditions (Inner climate: class IV).

#### **COMPOSITION**

- Bitumen coating mass: self-adhesive SBS modified bitumen.

#### **TECHNICAL DATA (EN 13707 et EN 13970)**

- Tensile strength:
  - longitudinal: 525 N/50 mm
  - transversal: 350 N/50 mm
- Elongation @ break
  - longitudinal: 12 %
  - transversal: 12 %
- Dynamic indentation : Ø 20mm
  - Low temperature flexibility self-adhesive coating: -25°C
  - Dimensional stability: 0,1%
  - Watertightness (EN 1928/B): 200 kPa
  - Water vapour transmission (EN 1931): µd >1500m

See test report according EN 13970 (Bitumen water vapor control layers) from MPA Dresden (DU) nbr 2006-4-667/9.

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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### **DIMENSIONS**

- Thickness: 0.6 mm
- Length: 25 m
- Width: 1,08 m
- Weight: 25 kg
- Packaging: 24 rolls per pallet

### **APPLICATION**

Nuraply ALU Vapour Barrier is applied as a vapour barrier in buildings with inner climates till class IV. The substrate should be smooth, dry, clean, fat- and dust free. All substrates, with exception of pre-coated metal deck, needs to be coated with bitumen primer IKOpro SAPrimer. In case of application on metal deck the membrane shall be placed parallel on to the corrugations, as to position the side laps supported on the metal deck, and have the ability to rightly pressure it.

The first membrane is unrolled and lined out and rolled up again till approximately half the length of the strip. The remove-able silicon foil should be cut in cross direction and pulled up in one time while unrolling the membrane. This way, the self-adhesive underside will get in direct contact with the substrate and stick immediately. The same procedure should be repeated for the other end of the roll. The next membrane Nuraply Aluminium Vapour Barrier is applied in the same way with a side lap of 8 cm and an end lap of minimum 10 cm. Overlaps are to be pressured with a medium hard pressure roller.

In case of application during colder periods the material should be stored at least 12 hours before application in an ambient temperature of  $\geq 10^{\circ}\text{C}$ . Attention: Finish the roofing system every working day until at least 1 watertight layer on the insulation material in order to protect the aluminium foil of the Nuraply Aluminium Vapour Barrier against thermal shocks.

### **SAFETY, STORAGE & HANDLING INFORMATION**

Do not pile pallets

Store indoors, preferably in dark room; avoid direct sunlight

Apply as quickly as possible after production

Pot-life: depending on circumstances: ideally in dark room at 10 to 20°C, maximum 6 months.

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## NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL

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### NURAPLY 3PB

*IKO Base P3 T/F 10m*

#### TECHNICAL DATA SHEET

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#### DESCRIPTION AND AREAS OF USE

Waterproofing membrane consisting of straight run bitumen heavily modified with polymers and reinforced with a non-woven polyester.

#### FINISHING

- Top surfaced finished with white calibrated sand
- Underside finished with a smooth thermofusible film

#### APPLICATIONS

- Underlay in multi layer waterproofing system

#### COMPOSITION

- Reinforcement : non-woven polyester 180 g/m<sup>2</sup>
- Coating mass : polymer modified bitumen

#### TECHNICAL SPECIFICATIONS (average values)

- Tensile strength (U.E.A.t.c.)
  - longitudinal : 600 N
  - transversal : 550 N
- Elongation at break (U.E.A.t.c.)
  - longitudinal : 40 %
  - transversal : 40 %
- Resistance to heat (U.E.A.t.c.) : > 140°C
- Low temperature flexibility (U.E.A.t.c.) : -5°C
- Dimensional stability : <0,5%
- Tear resistance (U.E.A.t.c.)
  - longitudinal : 160 N
  - transversal : 160 N

#### DIMENSIONS

- Thickness : 3 mm
- Length : 10 m
- Width : 1 m
- Surface : 10 m<sup>2</sup>
- Average weight : 41 kg



## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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### **SAFETY, STORAGE & HANDLING INFORMATION**

- Do not pile pallets
- Store indoors

### **TRANSPORT CLASSIFICATION**

N/A

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**NURAPLY 3PB – SA**

*IKO Base Stick T/SA 15m*

**TECHNICAL DATA SHEET**

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**DESCRIPTION AND AREAS OF USE**

Roofing membrane with polyester fibre reinforcement for use on areas requiring quality waterproofing without the use of naked flames.

- The polyester reinforcement has high mechanical strength.
- The bottom side is coated with self-adhesive, SBS modified bitumen, which guarantees an immediate and high adhesion strength to the substrate.
- The topside is finished with quartz mineral and a removable silicon foil of 8 cm on the side lap area, which guarantees a fast and secure sealing.
- The bottom side is finished with a removable silicon foil.

**COMPOSITION**

- Reinforcement: polyester fibre, 160 g/m<sup>2</sup>.
- Bitumen coating mass:
  - Topside: flexible bitumen.
  - Bottom side: self-adhesive SBS modified bitumen.

**TECHNICAL SPECIFICATIONS (average values)**

- Tensile strength: (UEAtc)
  - Longitudinal : 700 N
  - Transversal : 500 N
- Elongation at break (UEAtc)
  - Longitudinal : 35 %
  - Transversal : 35 %
- Low temperature flexibility self-adhering coating : -25°C

**DIMENSIONS**

- Thickness: 2.5 mm
- Length: 10 m
- Width: 1 m
- Weight: 32 kg

**APPLICATION**

The substrate should be smooth, dry, clean, fat- and dust free.

All non-insulated substrates, with exception of pre-coated metal deck, needs to be coated with Nuraflux bitumen primer. In case of application on metal deck the membrane shall be placed

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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parallel on to the corrugations, as to position the side laps supported on the metal deck, and have the ability to rightly pressure it.

The first membrane is unrolled and lined out and rolled up again till approximately half the length of the membrane. The removable silicon foil should be cut in cross direction and pulled up in one time while unrolling the membrane. This way, the self-adhesive underside will get in direct contact with the substrate and stick immediately.

The same procedure should be repeated for the other end of the roll.

The next membrane Nuraply 3PB – SA is applied in the same way with a side lap of 8 cm. Before unrolling it definitively, the silicon foil on the welding strip of the first membrane shall be removed.

Pressure shall be exerted with a medium hard pressure roller. The end laps should be sealed over a width of at least 10 cm with a smooth flame or hot air gun.

In multi layer roofing systems the top layer may be another layer of Nuraply 3PB-SA with a coating applied or Nuraply 3PM torched-applied onto the Nuraply 3PB–SA.

Temperature in application  $\geq 10^{\circ}\text{C}$ .

In case of application during colder periods the material should be stored at least 12 hours before application in an ambient temperature of  $\geq 10^{\circ}\text{C}$ .

### **SAFETY, STORAGE & HANDLING INFORMATION**

- Do not pile pallets
- Store indoors, preferably in dark room; avoid direct sunlight
- Apply as quickly as possible after production
- Pot-life: depending on circumstances: ideally in dark room at 10 to 20°C, maximum 6 months.

### **TRANSPORT CLASSIFICATION**

N/A

**NURAPLY 3PM**

*IKO Turbo 7.5m*

**TECHNICAL DATA SHEET**

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**DESCRIPTION AND AREAS OF USE**

Waterproofing membrane consisting of non-woven polyester coated with plastomer bitu-men. With slate layer in either Charcoal, Slate, Pure White, Red or Green.

**FINISHING**

- Top surfaced finished with a mechanically rolled slate layer (colour red) offering excellent bonding with PP film on the 8 cm overlap.
- Underside finished with a thermofusible film

**APPLICATION**

- Cap sheet in multi layer waterproofing system

**COMPOSITION**

- Reinforcement: 180gm<sup>2</sup> non-woven polyester
- Coating mass: polymer modified bitumen.

**TECHNICAL SPECIFICATIONS** (average values)

- Tensile strength (EN 12311-1)
  - longitudinal : 650 N
  - transversal : 500 N
- Elongation at break (EN 12311-1)
  - longitudinal : 40 %
  - transversal : 40 %
- Resistance to heat (EN 1110): > 140°C
- Low temperature flexibility (EN 1109): -8°C
- Dimensional stability (EN 1107-1): ≤ 0,5 %

**DIMENSIONS**



- Thickness : 4 mm
- Length : 7.5 m
- Width : 1 m
- Surface : 7.5 m<sup>2</sup>
- Average weight : 43 kg
- Colour : Charcoal, Slate, Pure White, Red or Green

**FIXING**



## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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Torching method with asphalt burner.

### **SAFETY, STORAGE & HANDLING INFORMATION**

- Do not pile pallets
- Store indoors

### **TRANSPORT CLASSIFICATION**

N/A

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**NURAPLY 3PV**  
*IKO Base QuadraT/F 7.5m*

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**TECHNICAL DATA SHEET**

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**DESCRIPTION AND AREAS OF USE**

Roofing membrane, consisting of a non-woven polyester reinforcement, coated with modified bitumen and provided with a built-in vapour dif-fusion layer.

- The built-in vapour diffusion layer on the under-side of the roofing membrane is realised by an additional diamond-shaped profiled coating, consisting of self-adhesive plastomer bitumen that can be thermally activated. The bonding area to the substrate is approx. 40 %, achieving the ideal ratio between wind resistance and vapour diffusion.
- The wide, diagonal-shaped channels, provided with a heat-resistant mineral anti-adhesive finish, ensure the optimum vapour diffusion.
- The welding strip on the underside of the roofing membrane is additionally provided with a self-adhesive plastomer bitumen that can be slightly thermally activated. The welding strip on the top of the roofing membrane is provided with a thermofusible film.
- These two finishing's ensure a safe joint, by means of the gentle flame from the asphalt burner.
- The top of the roofing membrane is surfaced with talc. The underside is provided with a thermofusible film.

**COMPOSITION**

- reinforcement: non-woven polyester 180 g/m<sup>2</sup>
- coating mass: polymer modified bitumen

**TECHNICAL SPECIFICATIONS** (average values)

- tensile strength (EN 12311-1)
  - longitudinal : 900 N
  - transversal : 550 N
- elongation at break (EN 12311-1)
  - longitudinal : 45 %
  - transversal : 45 %

**DIMENSIONS**

- length : 7,5 m
- width : 1 m
- weight : 32 kg

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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### **FIXING**

Thermally activate the profiles on the underside by means of the gentle flame of the asphalt burner.

### **APPLICATION**

Vapour diffusion under layer for the Nuraply 3P, 3PM or 3PG system.

Used on concrete substrates or areas of high moisture content within the built environment.

### **SAFETY, STORAGE & HANDLING INFORMATION**

- Do not pile pallets
- Store indoors

### **TRANSPORT CLASSIFICATION**

N/A

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**NURAPLY 3PV-SA**

*IKO Base QuadraT/SA 10m*

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**TECHNICAL DATA SHEET**

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**DESCRIPTION AND AREAS OF USE**

Roofing membrane consisting of a impregnated polyester reinforcement, coated on both sides with flexible coating bitumen and bottom side provided with a build-in vapour diffusion layer based on diamond-shaped profiled self-adhesive SBS modified bitumen.

- The polyester carrier has a high mechanical strength and is accessible during operation.
- The build-in vapour diffusion layer is based on diamond-shaped profiled plots consisting of self-adhesive SBS modified bitumen.
- The adhesive surface underneath is about 40 %, so that the ideal relation between wind resistance and vapour pressure exposure is achieved.
- The optimal vapour pressure diffusion is achieved by the broad, diagonal canal structure of the non-faced reinforcement.
- The bottom side is covered with diamonds of self-adhesive SBS modified bitumen, which guarantees an immediate and high bonding to the supporting substrate.
- The topside is finished with quarts mineral and a re-movable silicon foil of 8 cm at the side lap area. This guarantees fast and secures water tightness.
- The bottom side is finished with a removable silicon foil.

**COMPOSITION**

- Carrier polyester, 170 g/m<sup>2</sup>
- Bitumen coating mass: polymer modified bitumen
- Bottom side: build-in vapour pressure diffuser based on diamond-shaped profiled self-adhesive SBS modified bitumen

**TECHNICAL SPECIFICATIONS** (average values)

- Tensile strength: (UEAtc)
  - Longitudinal : 700 N
  - Transversal : 500 N
- Elongation at break (UEAtc)
  - Longitudinal : 35 %
  - Transversal : 35 %
- Low temperature flexibility self-adhering coating : -25°C

**DIMENSIONS**

- Thickness: 2,5 mm
- Length: 10 m
- Width: 1 m
- Weight: 32 kg



## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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### **APPLICATION**

Used as self-adhesive vapour pressure diffusing under layer in a multi-layer roofing system. Can be placed on substrates with enough delaminating resistance such as concrete, existing bituminous membranes, stable wooden supports.

Secondly, as a first layer on IKO enertherm MG/ALU): do not prime-on beforehand!

Nuraply 3PV - SA is applied as a base layer in multi layer roofing systems. The substrate should be smooth, dry, clean, fat and dust free. All substrates, with exception of thermal insulation, needs to be coated with Nuraflux bitumen primer

The first membrane is unrolled and lined out and rolled up again until approximately half the length of the strip. The removable silicon foil should be cut in cross direction and pulled up in one time while unrolling the membrane. This way, the self-adhesive underside will get in direct contact with the substrate and stick immediately.

The same procedure should be repeated for the other end of the roll. The next membrane Nuraply 3PV – SA is applied in the same way with a side lap of 8 cm and an end lap of at least 25 cm. Pressure shall be exerted with a medium hard pressure roller. The end lap will be torched with a gentle flame.

Next, the top layer will be fully torched-applied on the Nuraply 3PV -SA with a smooth flame of an asphalt torch.

Temperature in application  $\geq 10^{\circ}\text{C}$ .

In case of application during colder periods the material should be stored at least 12 hours before application in an ambient temperature of  $\geq 10^{\circ}\text{C}$ .

### **SAFETY, STORAGE & HANDLING INFORMATION**

- Do not pile pallets
- Store indoors, preferably in dark room; avoid direct sunlight
- Apply as quickly as possible after production
- Pot-life: depending on circumstances: ideally in dark room at 10 to 20°C, maximum 6 months.

### **TRANSPORT CLASSIFICATION**

N/A

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## **ENERTHERM PIR INSULATION BOARD**

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### **TECHNICAL DATA SHEET**

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IKO enertherm ALU is a 100 % CFC-free insulation board with a rigid polyisocyanurate foam core, faced with aluminium tri-laminate foil on both sides.

The insulation board is designed for the application in mechanically fixed or loose laid roof waterproofing systems made of reinforced polymers modified bitumen membranes and single ply plastic sheets.

#### **APPLICATIONS**

Thermal insulation of flat roofs, floors and walls.

#### **TECHNICAL CHARACTERISTICS**

- Core density: 32 kg/m<sup>3</sup>
- Compression strength at 10% deformation:  $\geq 120$  kPa (EN 13165)
- Performance under the influence of an equally distributed load: class C
- $\lambda_d$ -value (EN 13165 – declared value) : 0,022 W/Mk
- Tensile strength perpendicular to surface:  $> 80$  kPa (EN 1607)
- Facing: aluminium tri-laminated foil
- Fire reaction: Class E according to EN 13501 part 1
- Chemical resistance: only degraded by concentrated leach and acids. Most in practice used paintings and solvents have no influence on the foam.
- Fungus resisting: PIR insulation boards have no potential on growing micro organisms.

#### **THERMAL PERFORMANCE**

$\lambda_d$  value according EN 13165 = 0,022 W/mK

#### **CERTIFICATION**

Product homologation certificate from Intron bv in Holland registered under # CTG 485.  
ACERMI CSTB France Certificate n° 06/103/434/2.  
CE-key: PIR – EN – 13165 – T2-DS(TH)8-DLT(2)5-TR80-CS(10\Y)120.

#### **FIXATION OF INSULATION**

- Mechanical fixation to the substrate
- Nurabond High Foaming PU adhesive

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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### **DIMENSIONS**

#### **FLAT BOARDS**

Board dimensions 1000 x 1200 mm

Thickness mm

30 40 50 60 70 80 100

#### **INTEGRATED SLOPE 1:60**

Dimensions 1200 x 1200 mm

Thickness mm

40-60

60-80

80-100

100-120

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**NURABOND HIGH FOAMING PU ADHESIVE**

*IKOPro PU Adhesive*

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**TECHNICAL DATA SHEET**

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**DESCRIPTION AND USE**

Nurabond High Foaming PU Adhesive is a permanent elastic high performance moisture-cured single part polyurethane adhesive with light foaming capacity for bonding bituminous roofing membranes, vapour control layers and rigid insulation boards. For use on various substrates including profiled metal decking, existing bitumen membranes, concrete, timber etc.

The adhesive is cold applied and has been specially developed to allow the safe, rapid partial bonding of roofing components to a wide variety of substrates.

It is moisture curing and tolerant of use in damp conditions. A degree of moisture is required, either in the atmosphere or on the surface, to allow the correct adhesive bond to be achieved. However, all liquid water should be removed from surfaces prior to use.

**CURING TIME**

Curing time is dependent upon ambient temperature and humidity conditions however, curing will usually occur between 2 to 6 hours.

The adhesive will take 24 hours to achieve full bond strength.

**APPLICATION**

The minimum working temperature is 5°C. At low temperatures, warming the containers in hot water prior to use will improve handling characteristics. (N.B do not boil the product). Maximum working temperature 30°C.

Application time: max 20 minutes

Surfaces to receive adhesive should be stable, clean and free of any liquid water (damp surfaces are acceptable)

No priming is required.

Nurabond High Foaming PU Adhesive is applied straight from the container in strips. The maximum distance between the strips is 25cm. Use the spout on can for pouring lines of adhesive.

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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### **Advised glue consumption:**

<u>Average Consumption</u>	<u>Roofzone</u>	<u>per m<sup>2</sup></u>
Metal Plates	Centre	300g
	Perimeter	500g
	Corner	700g
Full Substrates	Centre	250g
	Perimeter	400g
	Corner	500g

These glue consumption rates are minimum advised rates and are valid for buildings with a maximum height of 15 metres

The membrane or insulation should be applied and pressed into position before formation of a skin on the adhesive. It is recommended that the bond is checked from time to time, by lifting a corner of the insulation/membrane to ensure that the adhesive ridges have been squeezed flat. This is particularly important with uneven substrates.

### **CLEANING**

Trichloroethane or methylene chloride

### **PACKAGING**

Nurabond High Foaming PU Adhesive is supplied in 6kg containers

### **STORAGE**

Keep containers tightly closed when not in use. Store in its sealed container, in dry conditions at a temperature between 5°C and 25°C.

To avoid the risk of spillage, always store and transport in a secure upright position.

### **HEALTH & SAFETY**

Keep container tightly sealed and away from direct heat. Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Should there be contact with skin, wash immediately with soap and water or a recognized skin cleaner. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In the event of accidents, seek medical attention immediately. Do not empty into drains. Do not allow solvent vapour to enter the air intakes of ventilation systems of buildings.

### **FIRE**

In case of fire, use foam, dry powder, carbon dioxide or sand. Never use water jet.

### **IMPORTANT NOTICE:**

The above recommendations are intended for the assistance of users and are of a general nature. They are based on our experience and judgement but because the conditions under which, and the materials with which our products are used, are beyond our control our recommendations must not be regarded as amounting to legal warranty or as involving any liability on us.

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## **IKO MS DETAIL**

### **TECHNICAL DATA SHEET**

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#### **DESCRIPTION AND USE**

IKO MS Detail is a solvent-free, high-build, liquid-applied waterproofing coating based on MS polymer technology that cures as a result of a chemical reaction with the ambient humidity. Once cured the coating becomes a tough, monolithic waterproof membrane. IKO MS Detail was designed to coat and protect complex details such as flashings, roof skylights, mechanical equipment, roof and wall penetrations etc., which would normally require intricate labour.

#### **APPLICATION**

- Waterproofing roof details such as flashings, domes, roof lights, chimneys, air-conditioning nozzles, gutters, etc.
- Waterproofing of roofs with complex shapes and only accessible for the annual inspection and/or maintenance.
- Suitable for all types of bituminous waterproofing membranes.
- Not to be used on wet substrates.
- Not to be used on hard PE, and on PC.
- Not to be used on the following types of synthetic roof membranes: TPO, ECB, Butyl and PE.
- Can be applied to Spectraplan TPE, PVC membranes and to certain types of EPDM after a specific pre-treatment with a belt sander and a special primer; contact the manufacturer in advance.
- Not to be used on natural stone.
- For all other substrates, please contact IKO first.

#### **PROPERTIES :**

- Does not flow; this also applies to high flashings.
- Free from solvents.
- Adequate adhesion without primer to most common construction materials, such as wood, hard PVC tubing, copper, zinc, bituminous substrates and polyester dome fittings.
- High elasticity.
- Excellence resistance against Ultra-Violet radiation, changing weather conditions and air pollution. The minimum working temperature is 5°C. At low temperatures, warming the containers in hot water prior to use will improve handling characteristics. (N.B do not boil the product). Maximum working temperature 30°C.
- The membrane that is formed after the curing process is perfectly fitted to the different shapes of the substrate.
- Bonds with damp substrates.
- MS Detail is not harmful to plants after curing.

#### **TECHNICAL PROPERTIES :**

- |                            |                 |
|----------------------------|-----------------|
| • Colour:                  | Grey            |
| • Appearance:              | Viscous paste   |
| • Application temperature: | + 5°C to + 35°C |
| • Temperature resistance:  | -40°C to +90°C  |

---

## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

---

- Density at 25°C: 1.40 kg/1 +/- 0.03
- Flash point: none
  
- Hardness Shore A (DIN 53505): 35
- % elongation up to point (DIN 53504): 450% • Tensile strength (DIN 53504): 2 MPa
- Skin formation at 23°C 50% RH: 60-120 minutes • Curing time at 23°C 50% RH: 2 mm per 24 h

### **PACKAGING :**

- 3.5 kg or 7 kg tins
- 

### **CONSUMPTION:**

- 1.7 kg/m<sup>2</sup> for a thickness of 1.2 mm

### **TOOLS :**

- Toothed spatula
- Brush or roller for flashings or roof details
- Masking tape





## **NURAPLY 3PM ROOFING MEMBRANE INSTALLATION MANUAL**

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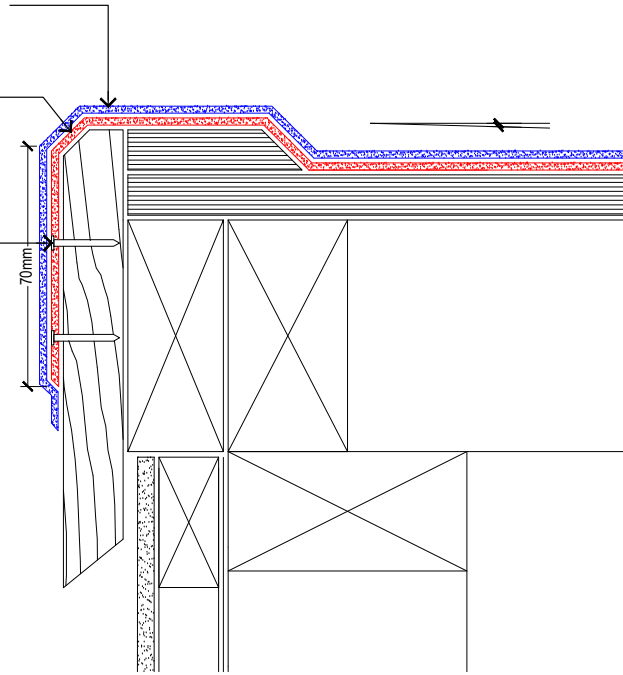
### **11. Installation Details**

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Nuraply 3PM system in selected colour, refer to specification.

Nuraply 3PB on Nurabond #10 adhesive

Nuraply 3PB torched & nailed to bargeboard with clouts.



**Nuralite Waterproofing Ltd.**  
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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: <b>COLD ROOF - NON DRAINING / WATERCHECK</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPC.B1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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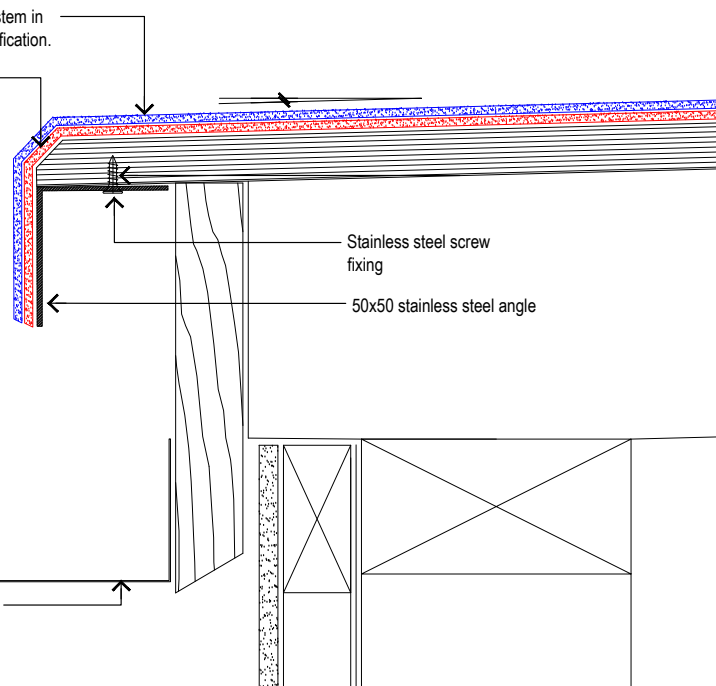
Nuraply 3PM double layer system in selected colour, refer to specification.

Nuraply 3PB on Nurabond #10 adhesive

Stainless steel screw fixing

50x50 stainless steel angle

Selected guttering installed to manufacturers specification.

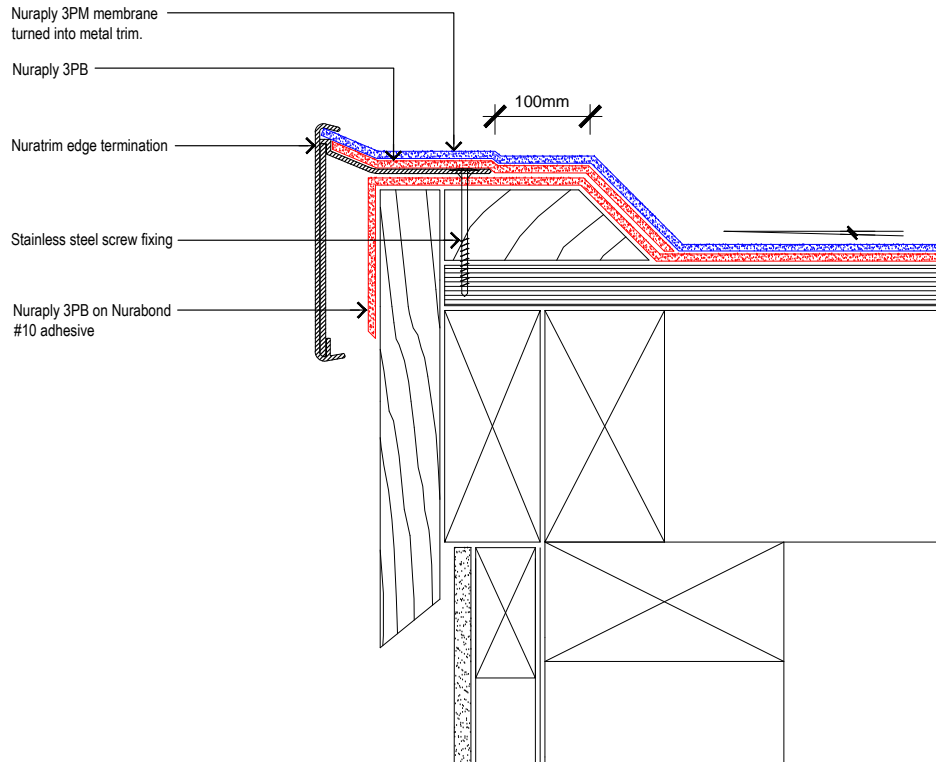


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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: <b>COLD ROOF - WRAPPED METAL ANGLE INTO GUTTER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPC.A2</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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PRODUCT:

**NURAPLY 3PM**

DESCRIPTION:

COLD ROOF - NURATRIM ON VERGE

SCALE: NTS

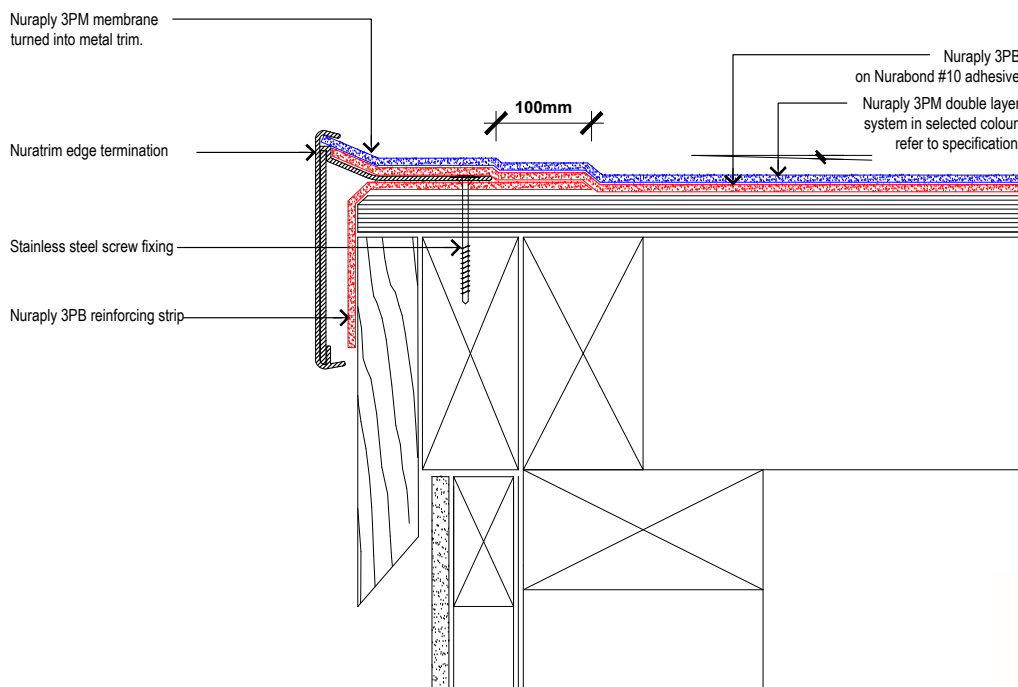
PREVIOUS DWG No: New

DWG No: RPPC.B4

REVISION: Rev E

DATE: MAY 16

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PRODUCT:

**NURAPLY 3PM**

DESCRIPTION:

COLD ROOF - NURATRIM EDGE DETAIL

SCALE: NTS

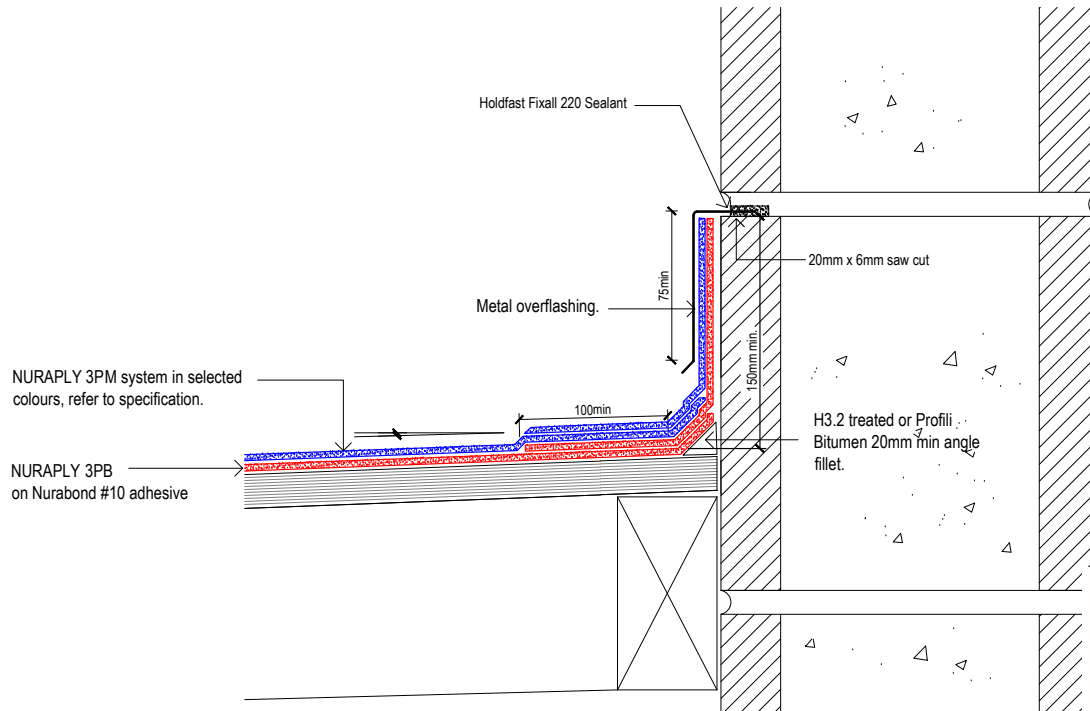
PREVIOUS DWG No: New

DWG No: RPPC. B3

REVISION: Rev E

DATE: MAY 16

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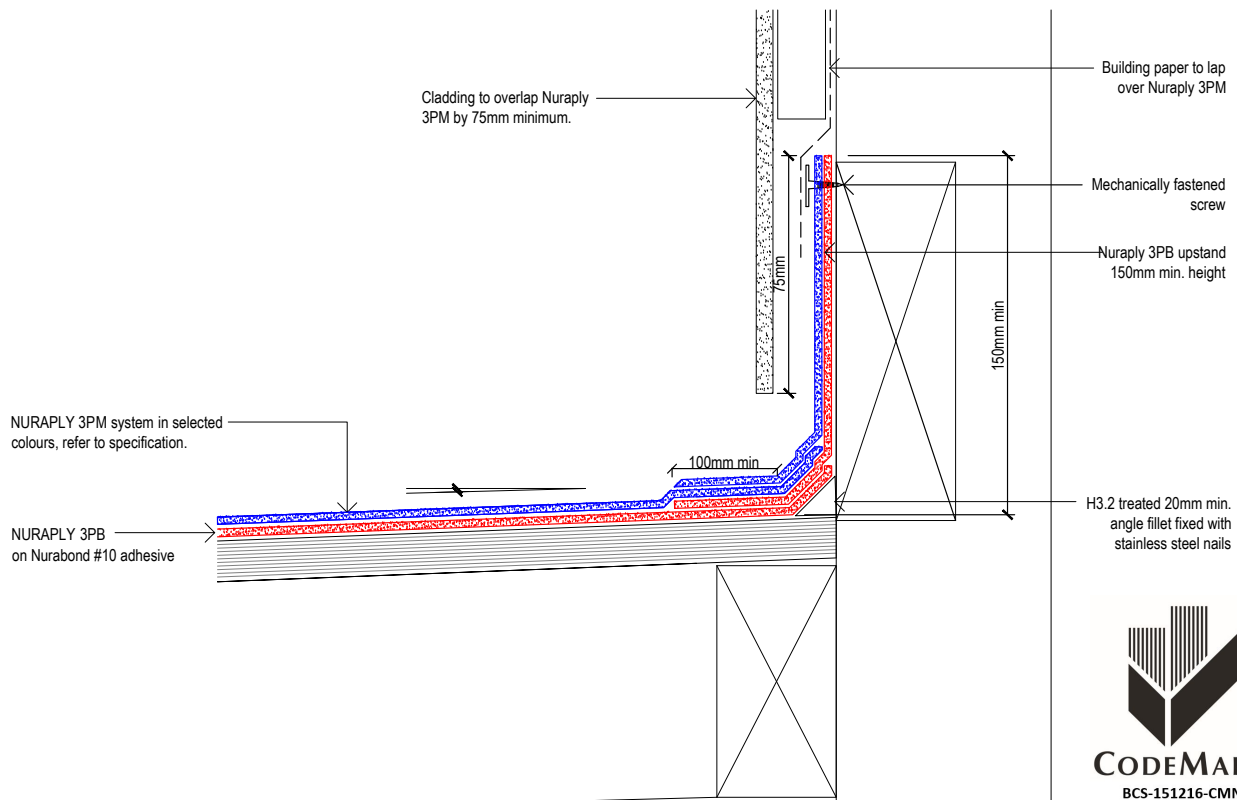


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PRODUCT:	<b>NURAPLY 3PM</b>		
DESCRIPTION:	COLD ROOF - UPSTAND INTO CHASE		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPC.C2

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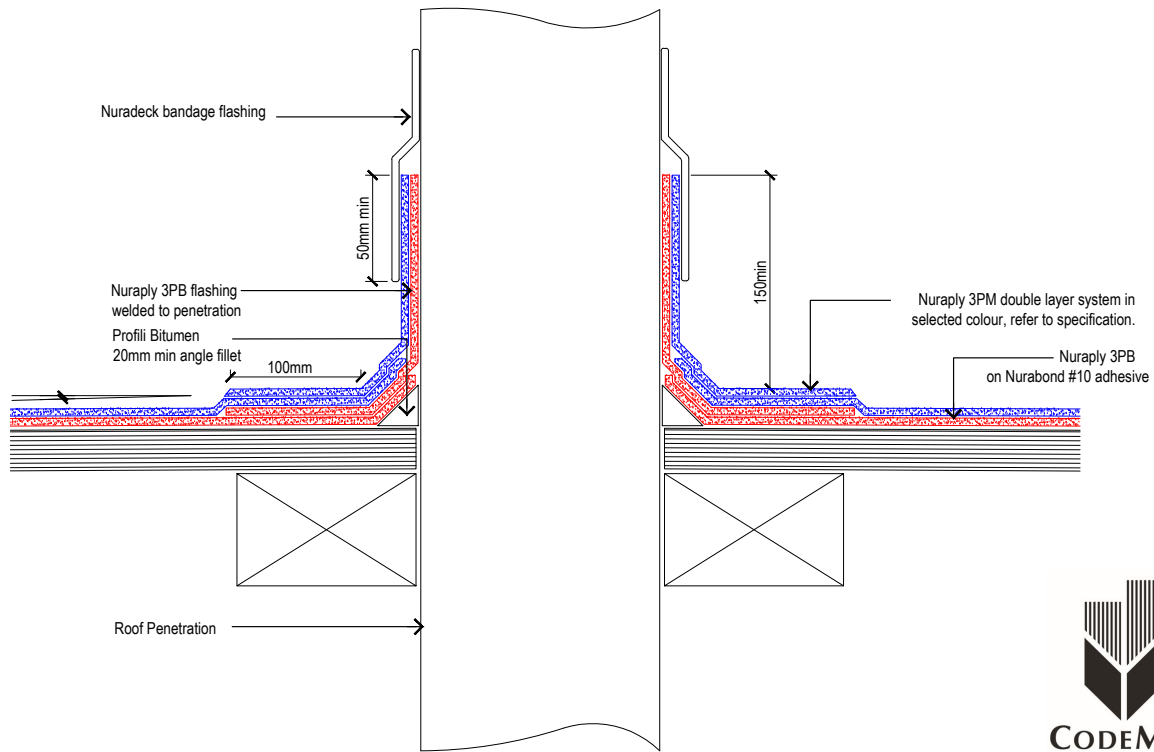
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PRODUCT:	<b>NURAPLY 3PM</b>		
DESCRIPTION:	COLD ROOF - UPSTAND BEHIND CLADDING		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPC.C1

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\*NOTE: Check Penetration Material compatibility with your Nuralite advisor



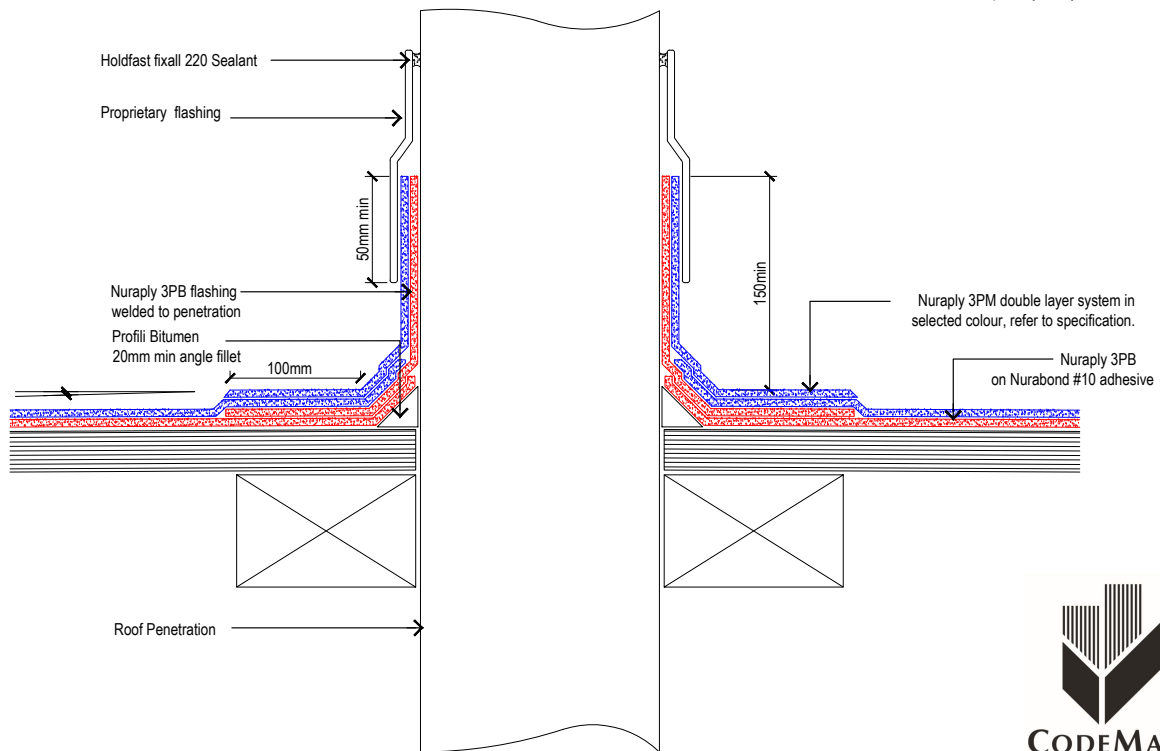
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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: COLD ROOF - ROOF PENETRATION WITH NURADECK FLASHING			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.D2	
REVISION: Rev E	DATE: MAY 16		

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\*NOTE: Check Penetration Material compatibility with your Nuralite advisor

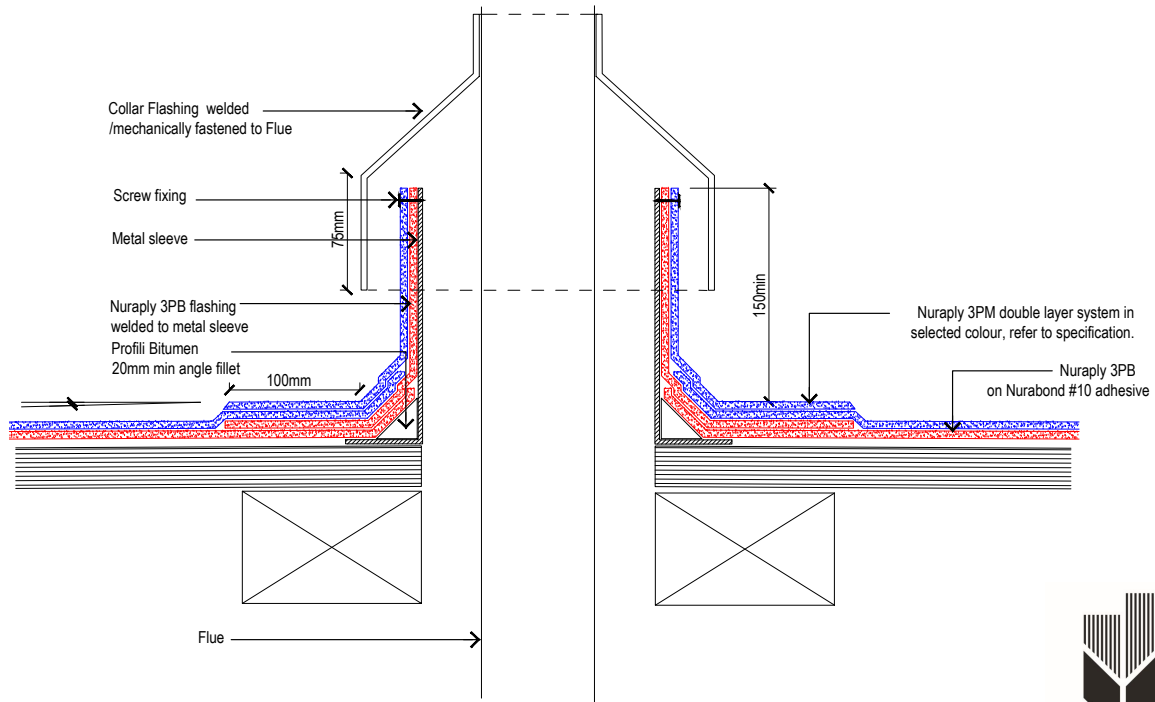


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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: COLD ROOF - ROOF PENETRATION WITH INTEGRAL FLASHING			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.D1	
REVISION: Rev E	DATE: MAY 16		

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PRODUCT:

**NURAPLY 3PM**

DESCRIPTION:

COLD ROOF - FLUE DETAIL

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

Rev E

DATE: MAY 16

DWG No:

RPPC.D3

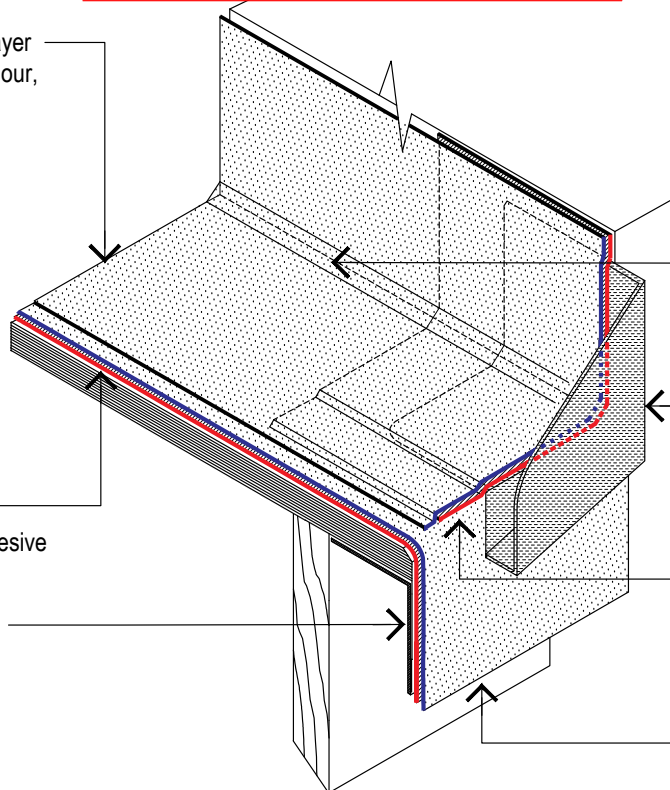
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Nuraply 3PM double layer system in selected colour, refer to specification.

Nuraply 3PB on Nurabond #10 adhesive

50 x 50 stainless steel metal angle

ISOMETRIC VIEW



H3.2 treated 20mm angle fillet

Nuralite right hand side drain diverter between two Nuraply double layer systems

Nuraply 3PB

Nuraply 3PM double layer system in selected colour, refer to specification.



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PRODUCT:

**ALUMINIUM DRAIN DIVERTER**

DESCRIPTION:

DRAIN DIVERTER INSTALLED INTO NURAPLY COLD ROOF

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

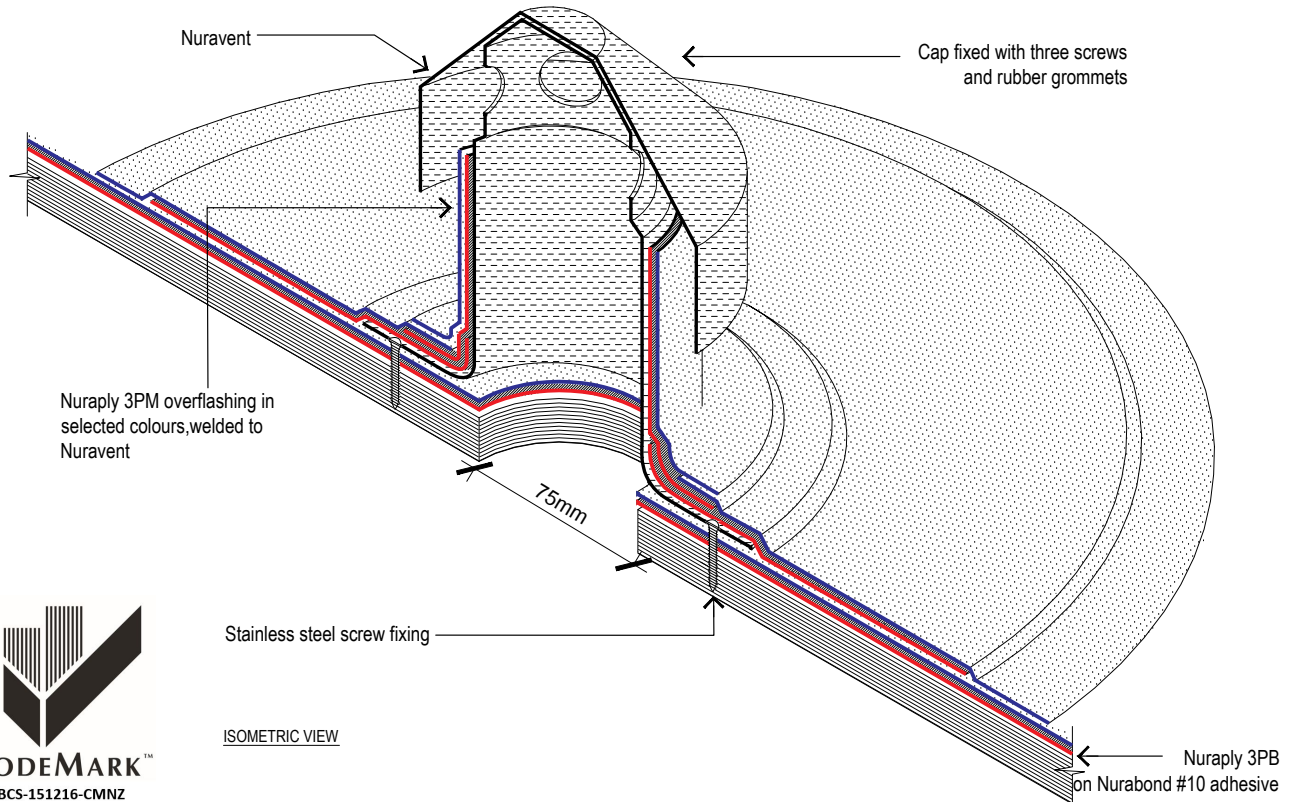
Rev E

DATE: MAY 16

DWG No:

RPPC.D2 iso

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**NURALITE**  
THE FLAT ROOF EXPERTS

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PRODUCT:

**NURAPLY 3PM**

DESCRIPTION:

COLD ROOF - NURAVENT

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

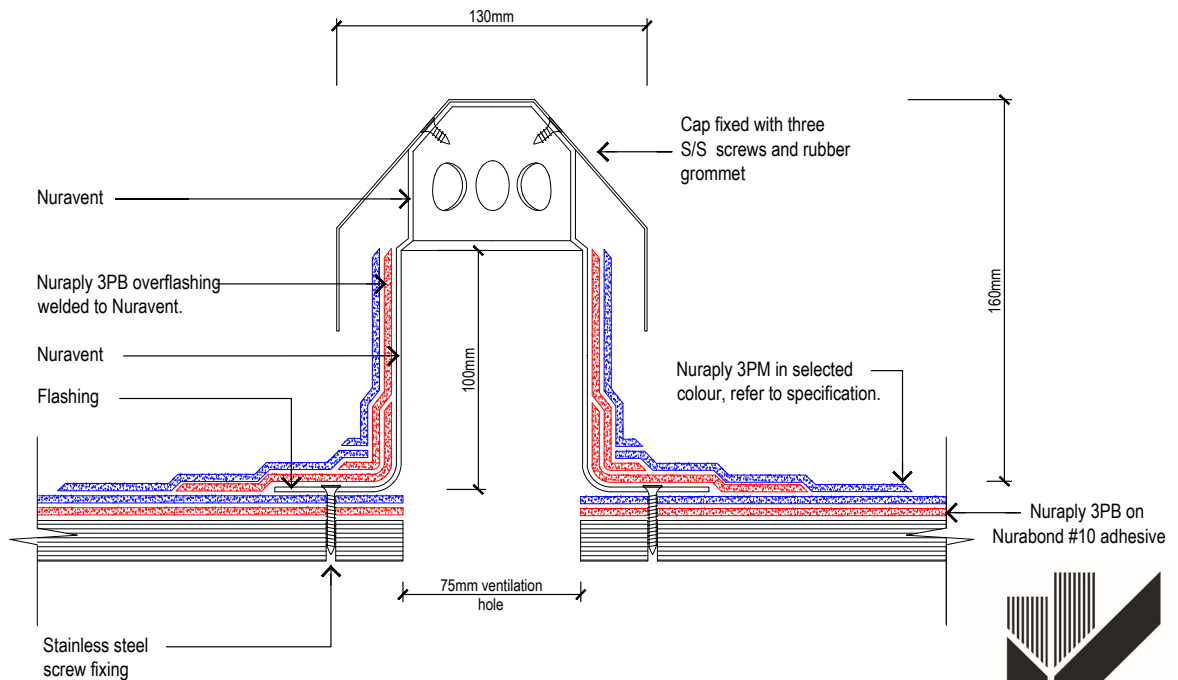
DATE:

MAY 16

DWG No:

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PRODUCT:

**NURAPLY 3PM**

DESCRIPTION:

COLD ROOF - NURAVENT

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

DATE:

MAY 16

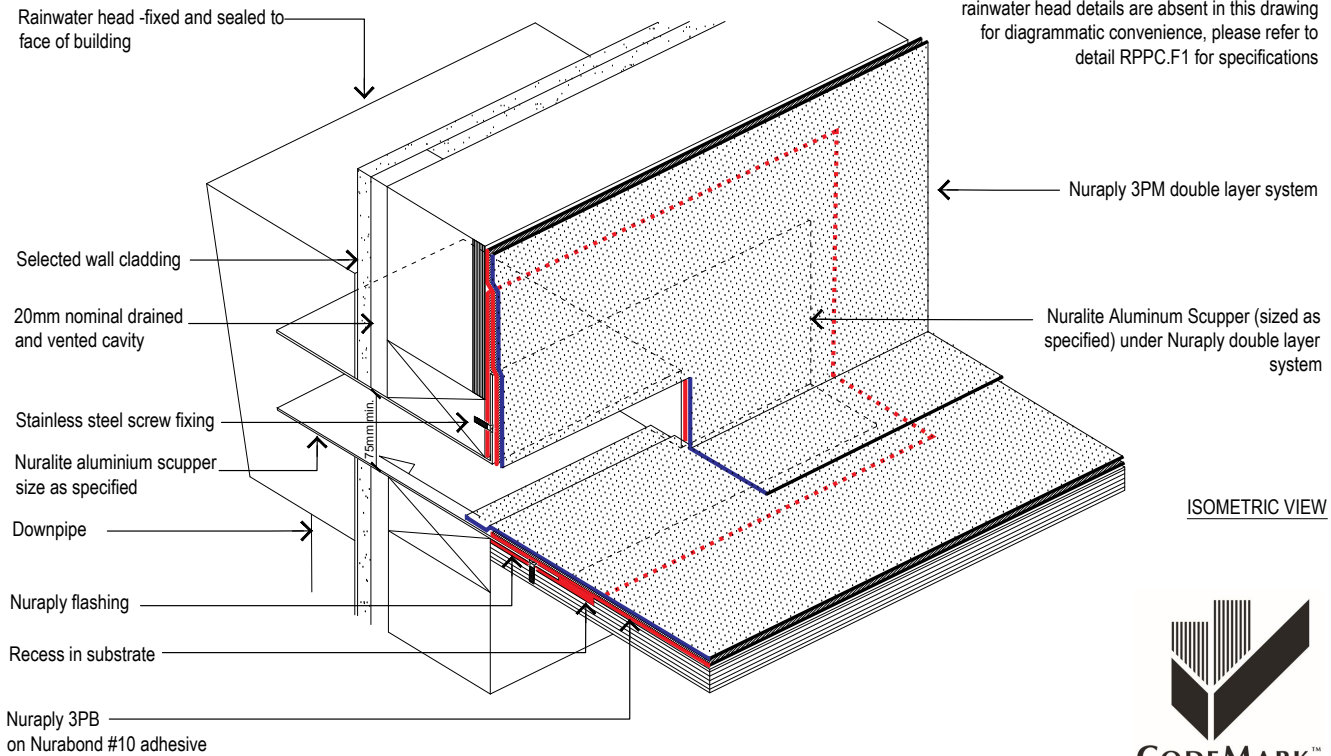
DWG No:

RPPC.E1



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NOTE: The leaf guard, flashing tape and rainwater head details are absent in this drawing for diagrammatic convenience, please refer to detail RPPC.F1 for specifications



ISOMETRIC VIEW



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PRODUCT:

**NURAPLY 3PM**

DESCRIPTION:

COLD ROOF - SCUPPER

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

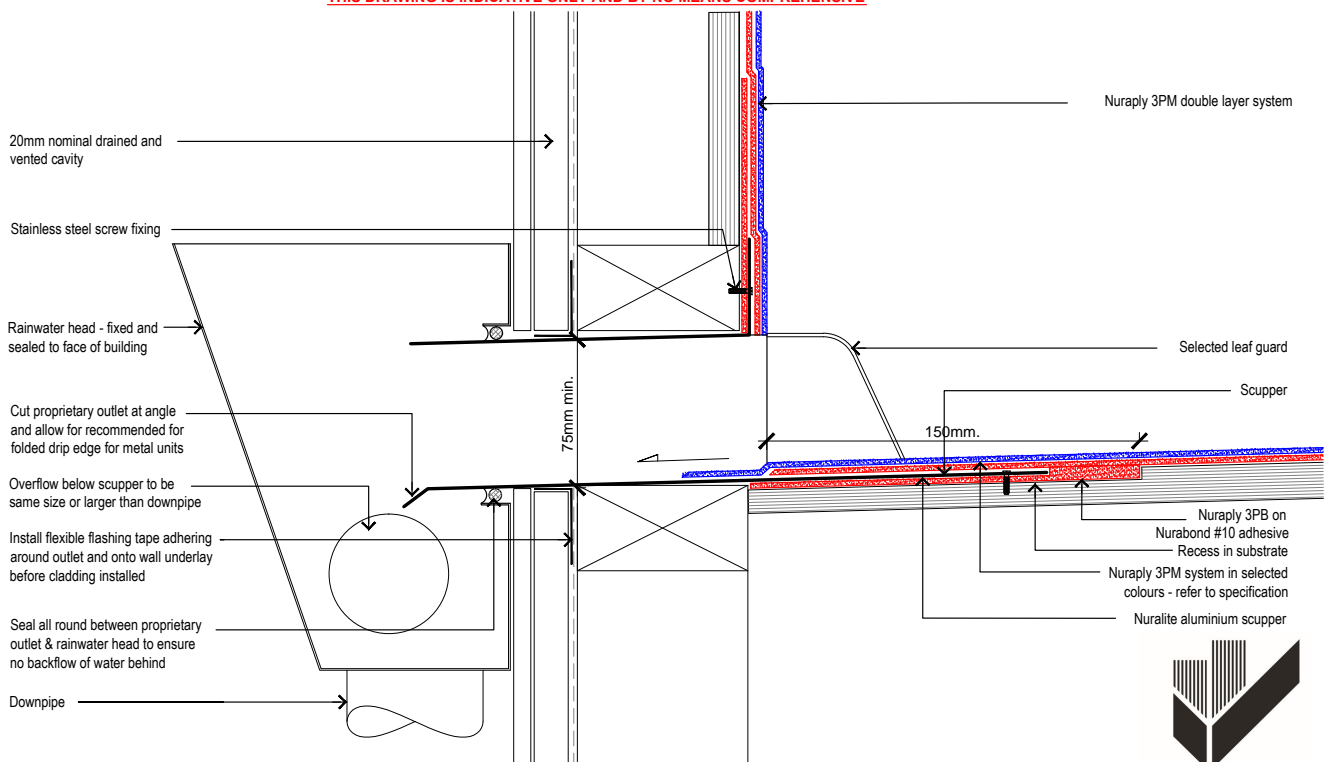
DATE:

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DWG No:

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PRODUCT:

**NURAPLY 3PM**

DESCRIPTION:

COLD ROOF - SCUPPER

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

DATE:

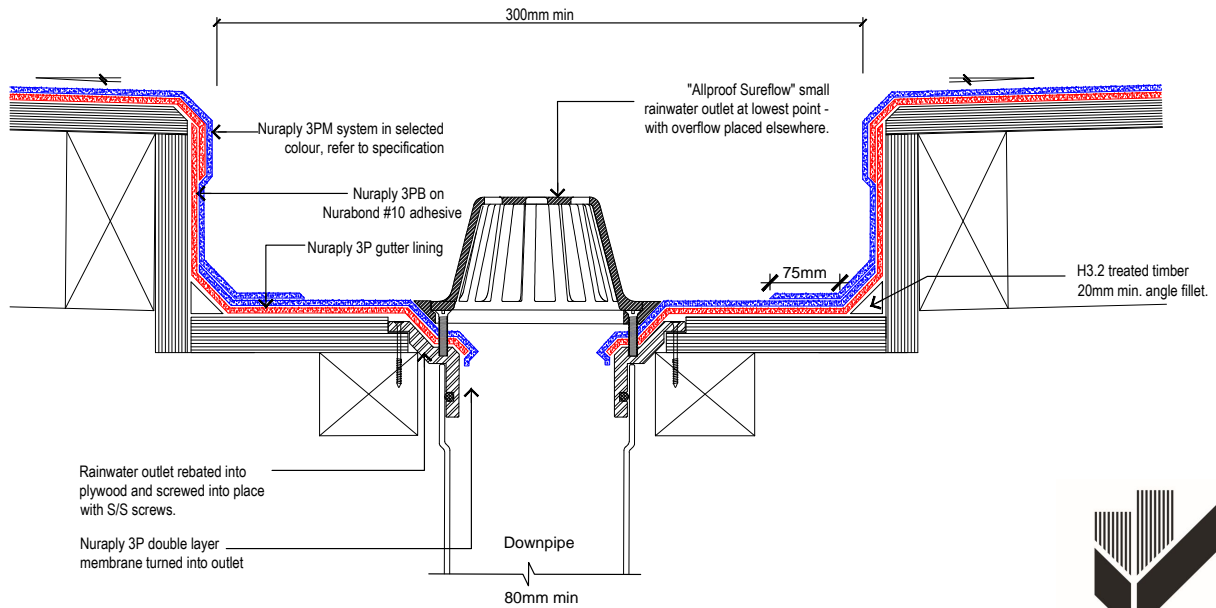
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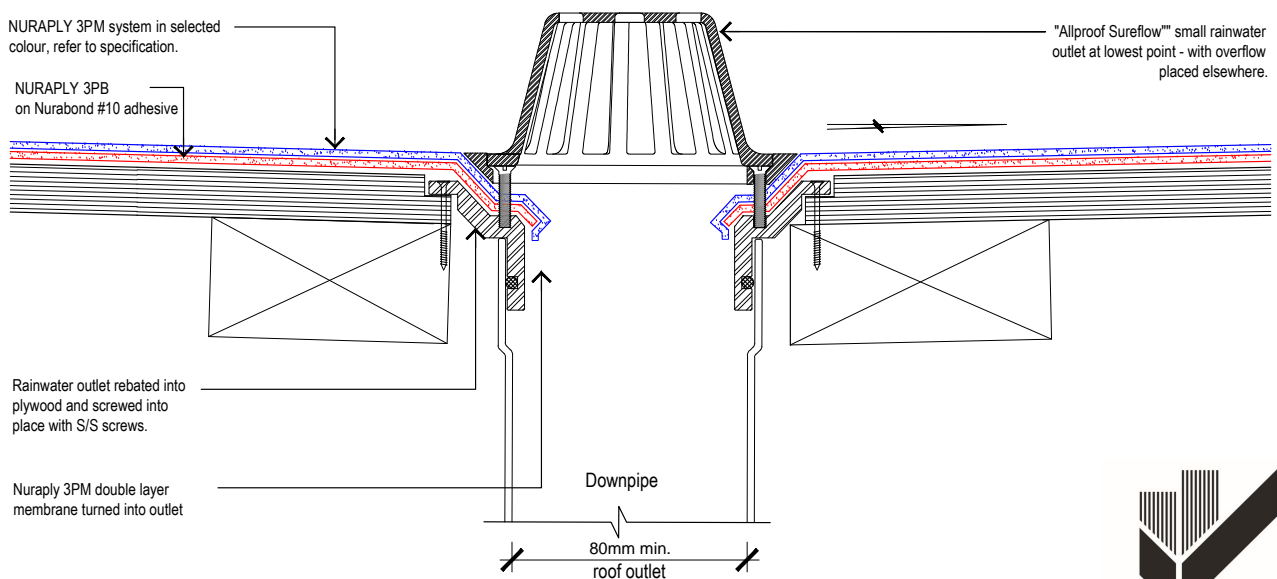


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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: <b>COLD ROOF - RAINWATER OUTLET IN BOX GUTTER</b>			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.G3	
REVISION: Rev E	DATE: MAY 16		

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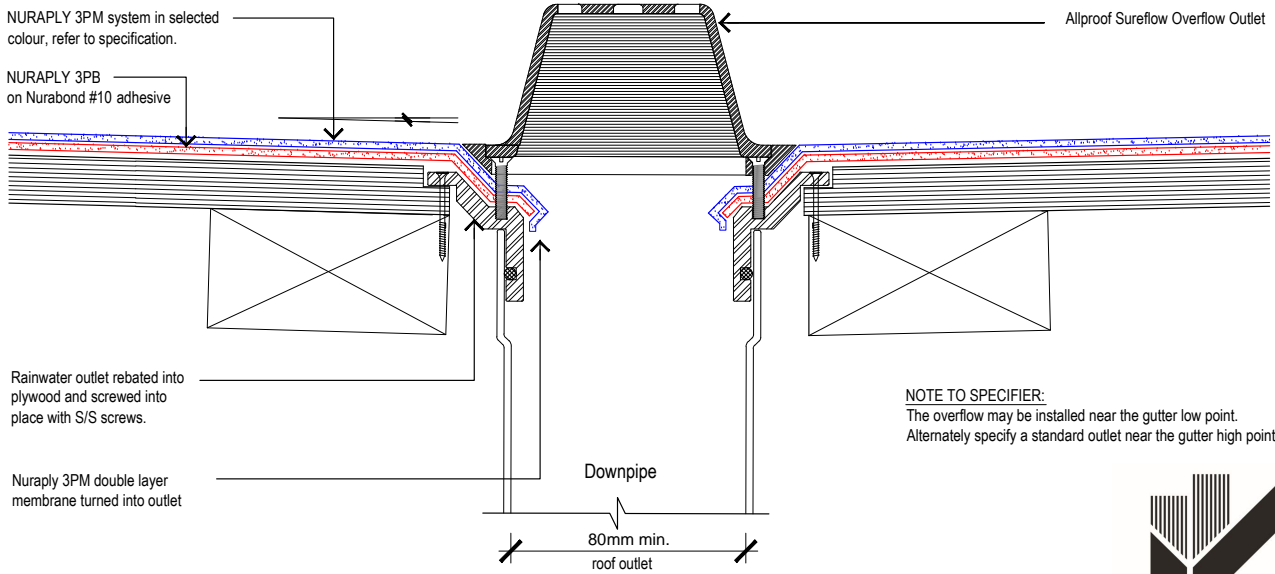


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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: <b>COLD ROOF - RAINWATER OUTLET</b>			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.G1	
REVISION: Rev E	DATE: MAY 16		

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NOTE TO SPECIFIER:  
The overflow may be installed near the gutter low point.  
Alternately specify a standard outlet near the gutter high point.

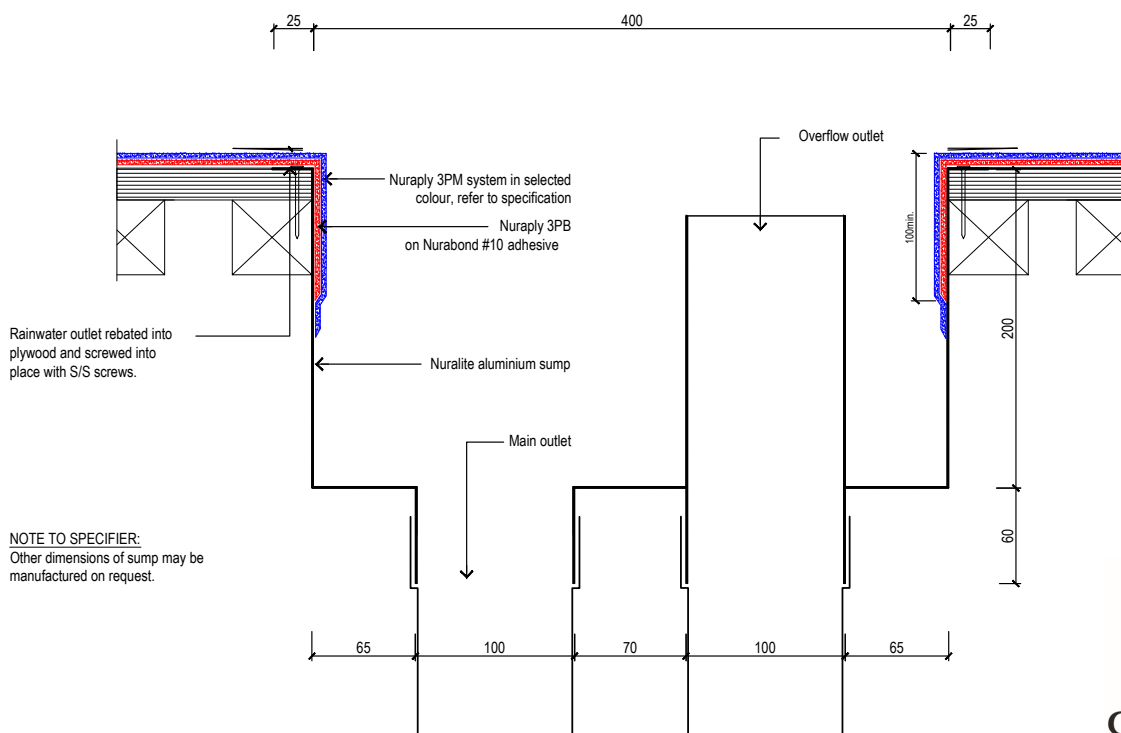


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PRODUCT:	<b>NURALITE 3PM</b>		
DESCRIPTION:	<b>COLD ROOF - OVERFLOW</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPC.G6

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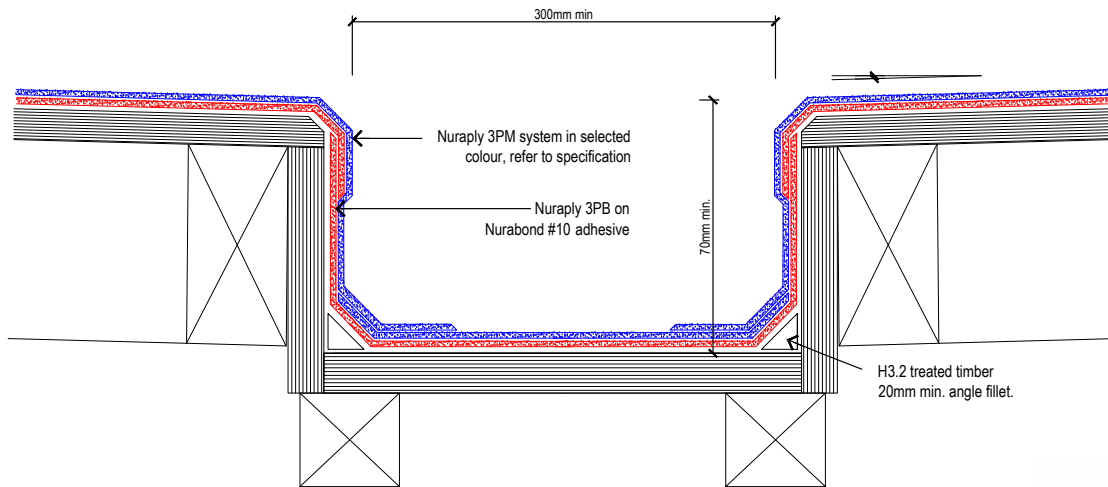


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PRODUCT:	<b>NURALITE 3PM</b>		
DESCRIPTION:	<b>COLD ROOF - SUMP</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPC.G5

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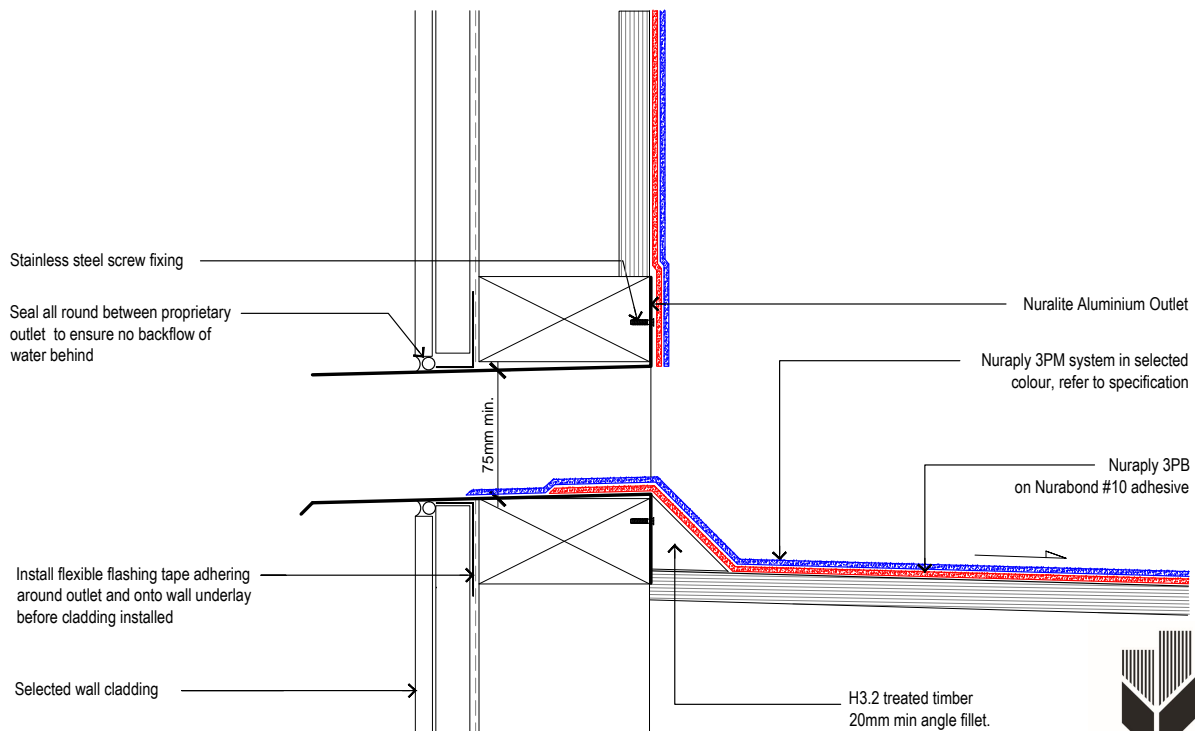


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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: <b>COLD ROOF - INTERNAL BOX GUTTER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPC.H1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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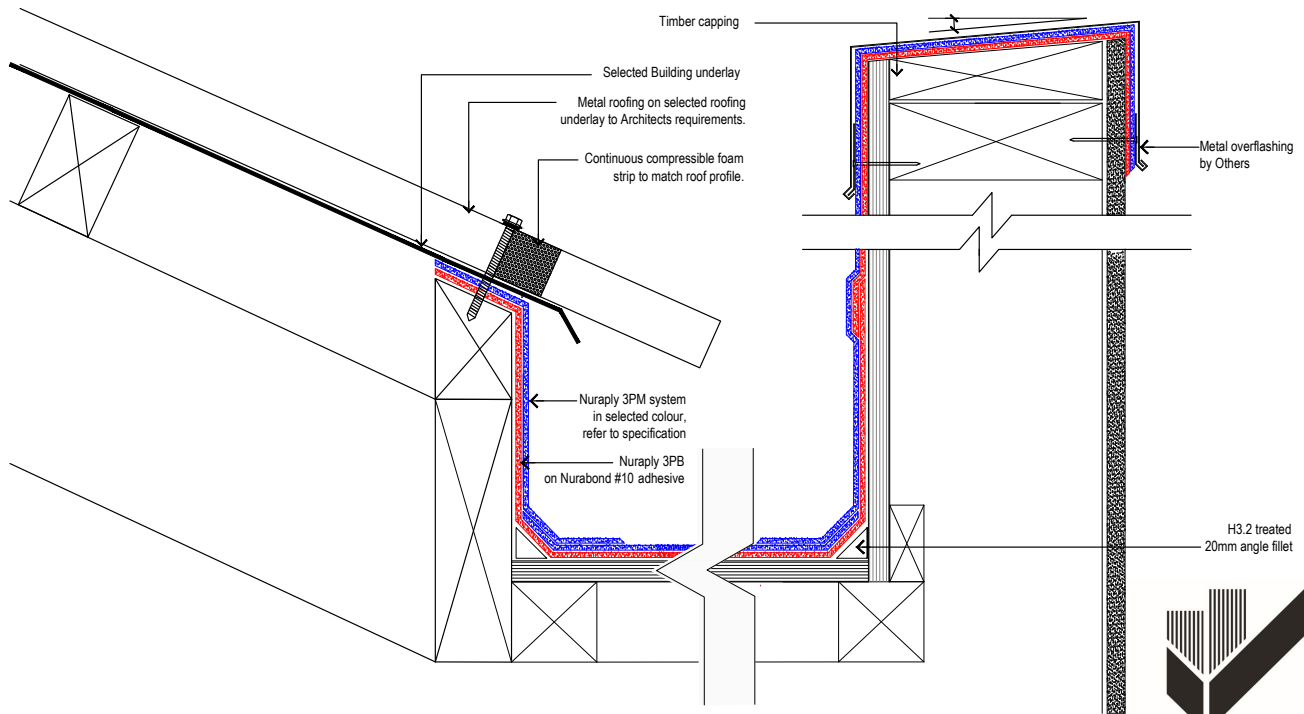


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PRODUCT: <b>NURAPLY PARAPET OVERFLOW OUTLET</b>			
DESCRIPTION:			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPC.G7</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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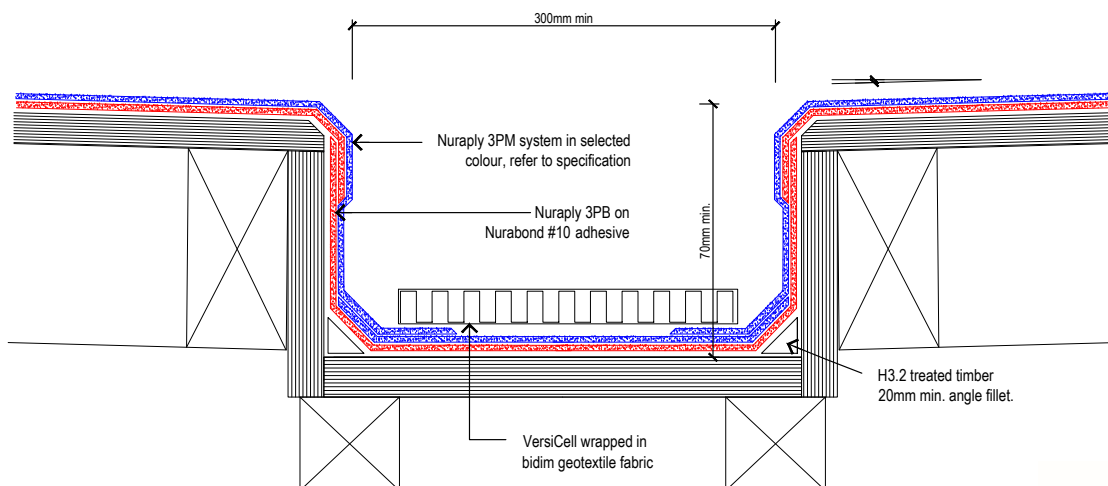


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PRODUCT: <b>NURAPLY 3PM</b>		
DESCRIPTION: COLD ROOF- BOX GUTTER WITH METAL ROOF AND TIMBER PARAPET		
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.H2
REVISION: Rev E	DATE: MAY 16	

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PRODUCT: <b>NURAPLY 3PM</b>		
DESCRIPTION: SNOW ZONE - INTERNAL BOX GUTTER		
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.H7
REVISION: Rev A	DATE: JUNE 16	

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The drawing illustrates a cross-section of a roof-to-wall junction. The roof is sloped and covered with metal roofing. A continuous compressible foam strip is applied along the roof profile where it meets the wall. The wall is constructed with masonry blocks. The Nuralpy 3PM system is applied to the wall surface, and the Nuralpy 3PB system is applied to the roof surface, both using Nurabond #10 adhesive. A 50mm minimum gap is shown between the foam strip and the wall. A 200mm minimum gap is shown between the two wall sections. A 70mm minimum gap is shown between the wall and the roof structure. A 20mm angle fillet is shown at the corner of the wall.

Selected Building underlay

Metal roofing on selected roofing underlay to Architects requirements.

Continuous compressible foam strip to match roof profile.

200mm min.

50mm min.

70mm min.

Nuralpy 3PM system in selected colour, refer to specification

Nuralpy 3PB on Nurabond #10 adhesive

H3.2 treated 20mm angle fillet

**CODEMARK™**  
BCS-151216-CMNZ



**CODemark**  
BCS-151216-CMNZ



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**NURAPLY 3PM**

COLD ROOF - BOX GUTTER WITH METAL ROOF ON BOTH SIDES

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RPPC.H4

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Selected Building underlay

Metal roofing on selected roofing underlay to Architects requirements.

Continuous compressible foam strip to match roof profile.

Nuraply 3PM system in selected colour, refer to specification

Nuraply 3PB on Nurabond #10 adhesive

250mm min.

Metal overflashing by others

Precast concrete panel

H3.2 treated 20mm angle fillet

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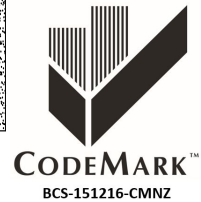
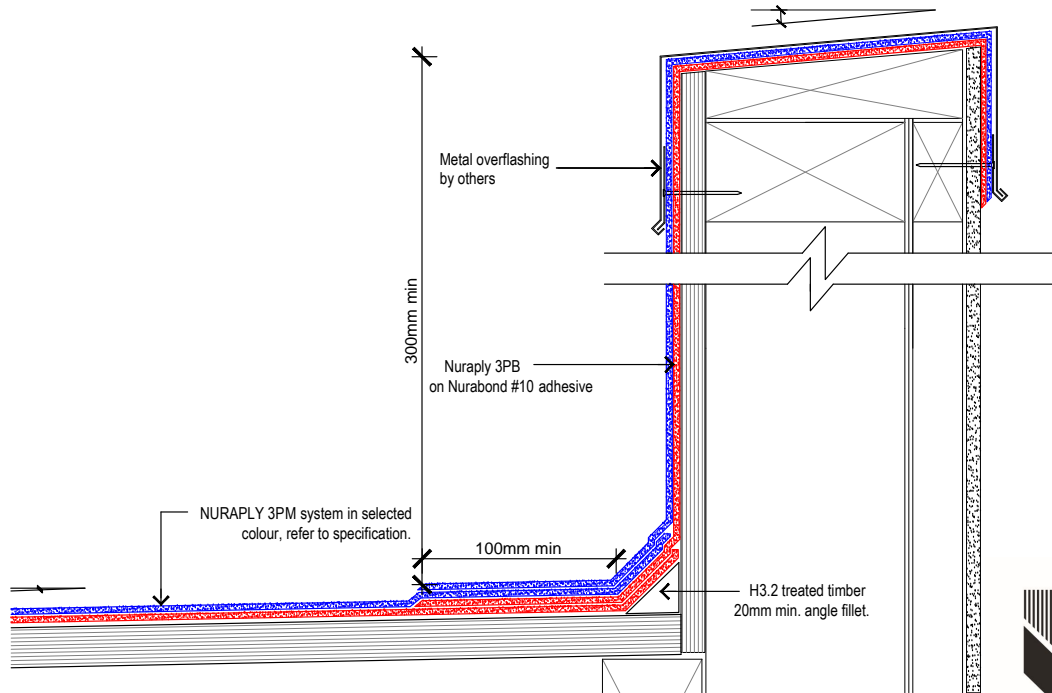
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NURAPLY 3PM

LD ROOF - BOX GUTTER WITH METAL ROOF AND CONCRETE PARAPET

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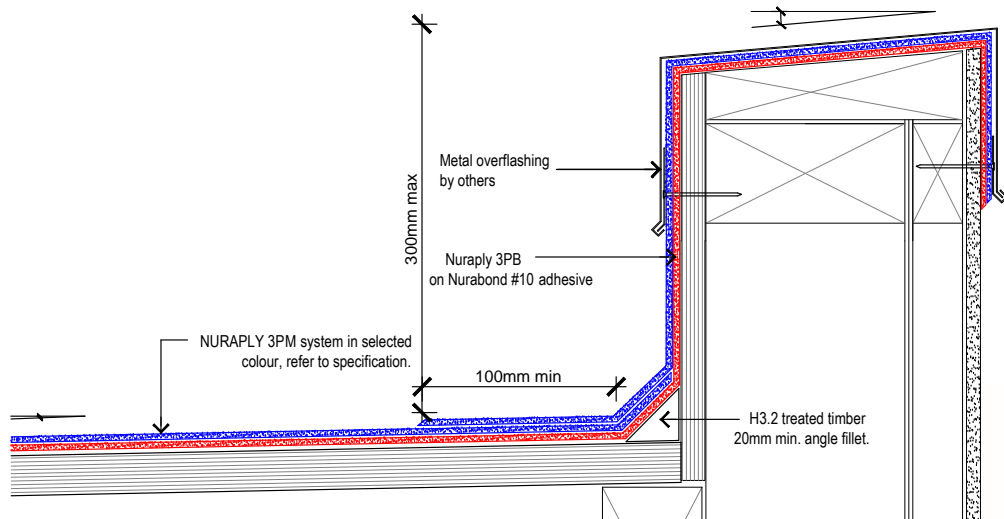


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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: <b>COLD ROOF - HIGH PARAPET</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPC.H6</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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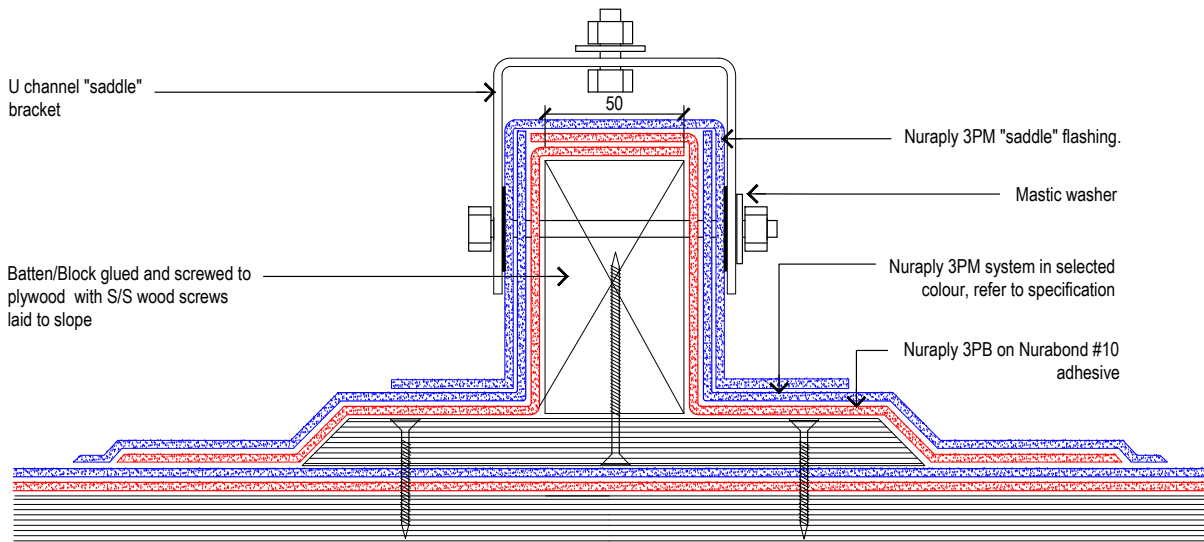


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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: <b>COLD ROOF - LOW PARAPET</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPC.H5</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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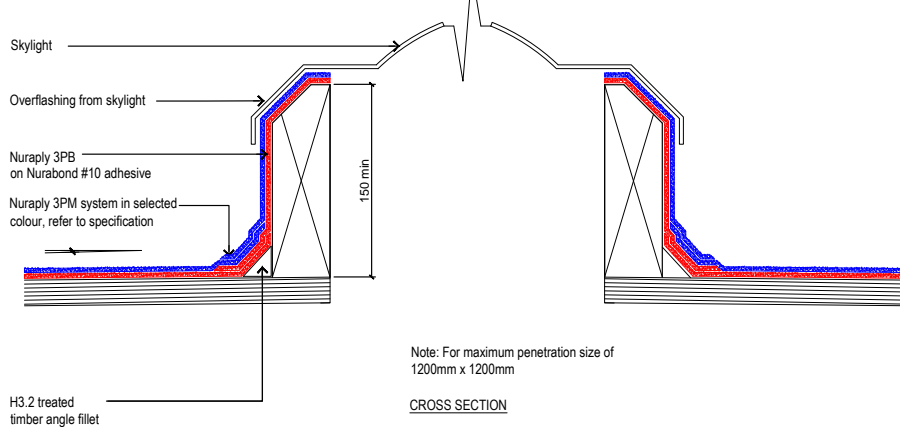


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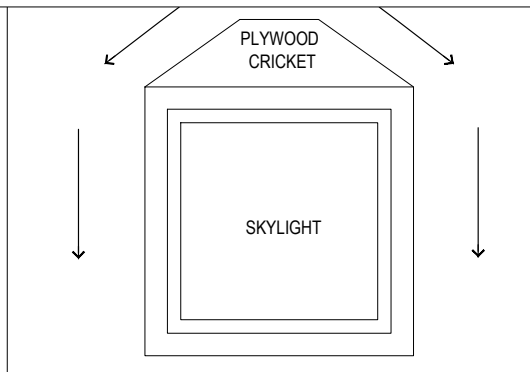
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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: COLD ROOF - UNIVERSAL MOUNTING BRACKET			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.K1	
REVISION: Rev E	DATE: MAY 16		

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PLAN



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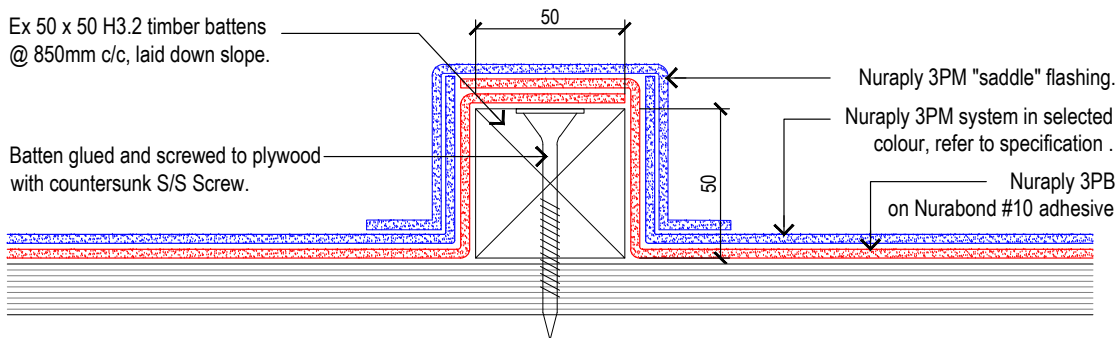
PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: COLD ROOF - SKYLIGHT			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.J1	
REVISION: Rev E	DATE: MAY 16		



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Ex 50 x 50 H3.2 timber battens  
@ 850mm c/c, laid down slope.

Batten glued and screwed to plywood  
with countersunk S/S Screw.

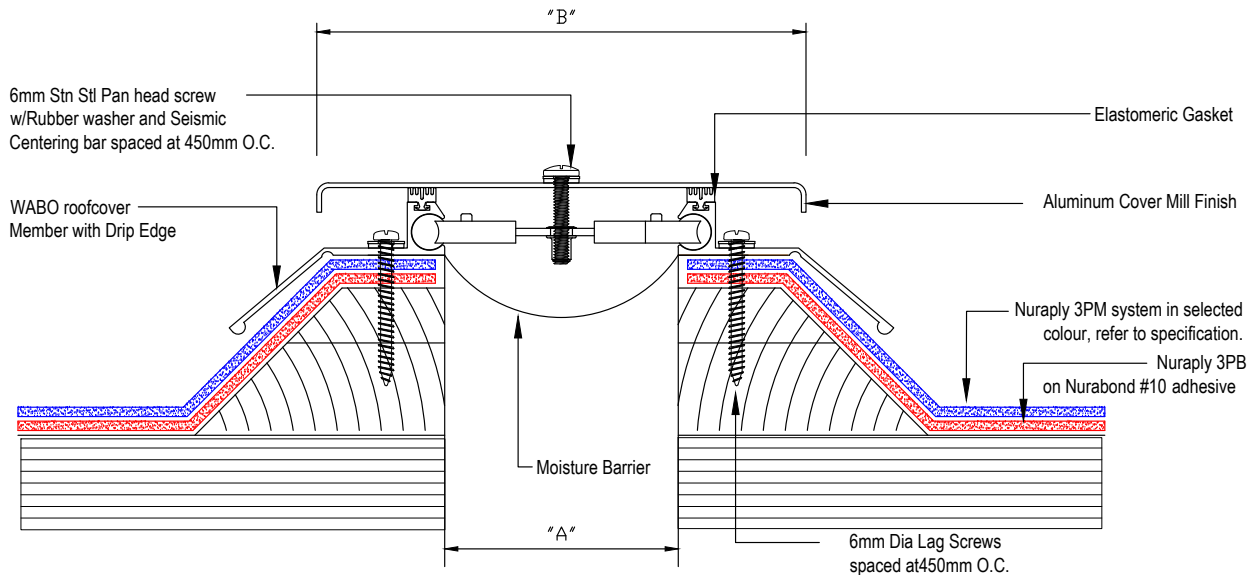


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PRODUCT:	<b>NURAPLY 3PM</b>		
DESCRIPTION:	COLD ROOF - SQUARE BATTEN ROOF		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPC.N2

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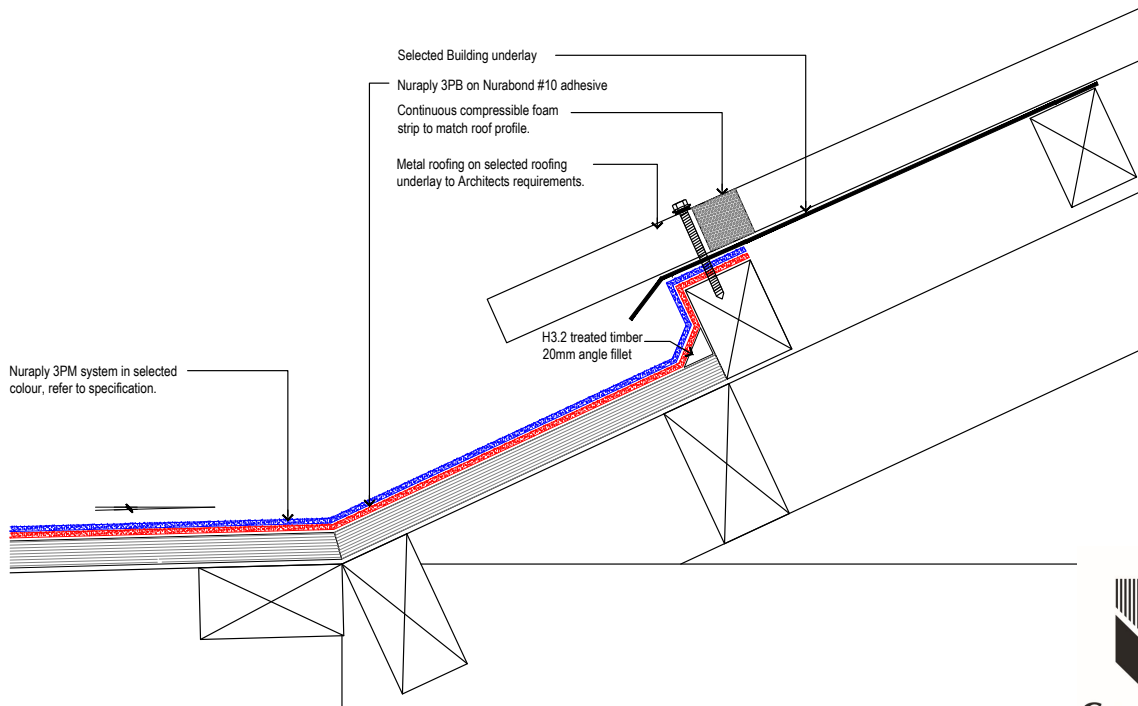
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PRODUCT:	<b>NURAPLY 3PM</b>		
DESCRIPTION:	BAS EXPANSION JOINT / WABO ROOFCOVER		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPC.M1

DIMENSION CHART					
Model	"A" @ Min.	"A" @ Mid	"A" @ Max.	"B"	Total Movement
RFC-200	6	50	75	160	75
RFC-400	6	100	150	110	150
RFC-600	6	150	230	290	230
RFC-800	6	205	305	365	305
RFC-1000	6	255	380	430	380
RFC-1200	6	305	460	500	460
RFC-1800	6	460	685	730	685
RFC-2400	6	610	915	960	915



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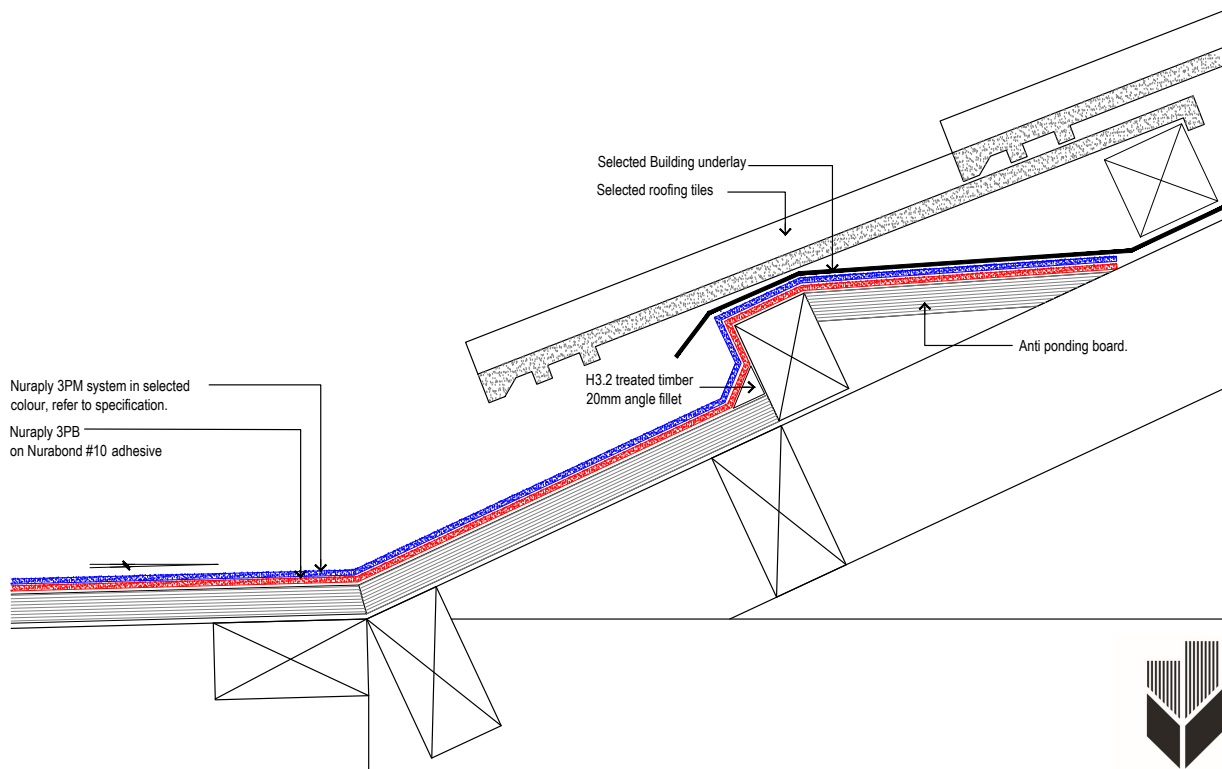
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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: COLD ROOF- METAL ROOF ONTO MEMBRANE			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.O2	
REVISION: Rev E	DATE: MAY 16		

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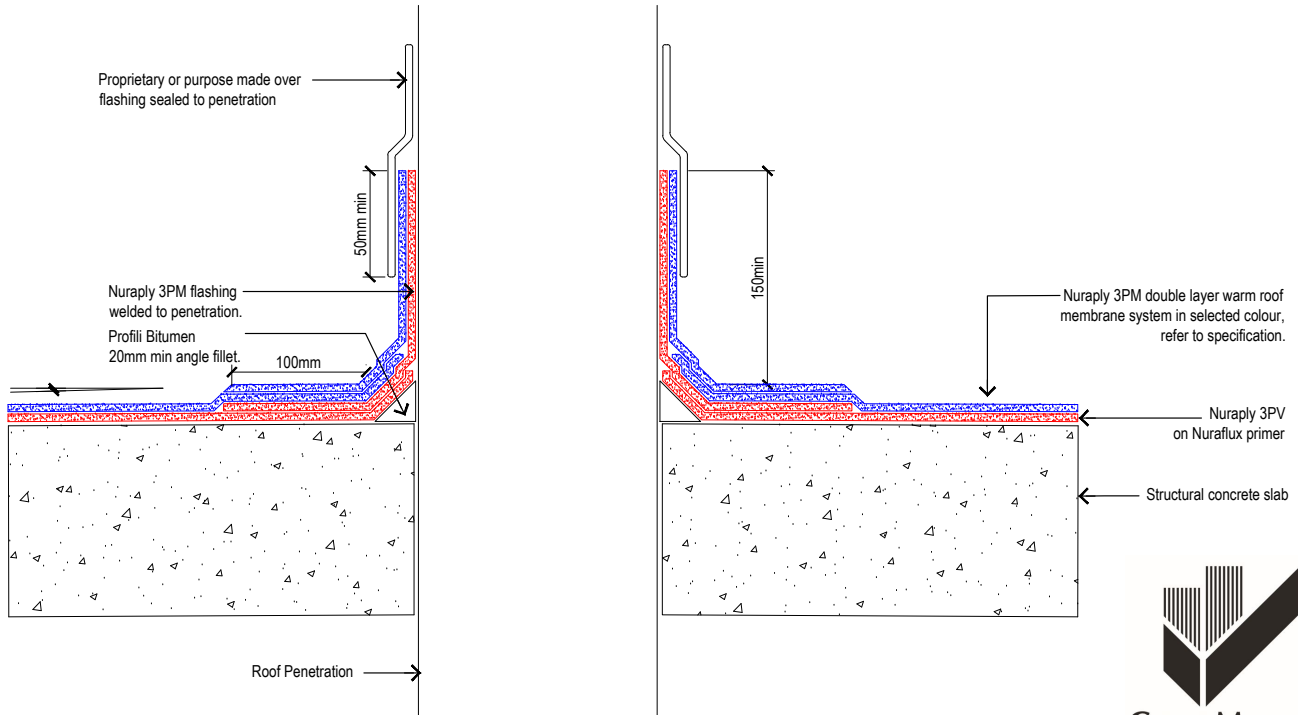
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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: COLD ROOF- TILE ROOF ONTO MEMBRANE			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RPPC.O1	
REVISION: Rev E	DATE: MAY 16		



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PRODUCT:

**NURAPLY ON CONCRETE**

DESCRIPTION:

COLD ROOF - ROOF PENETRATION WITH INTEGRAL FLASHING

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

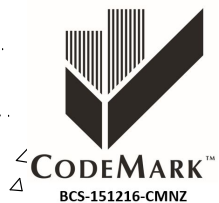
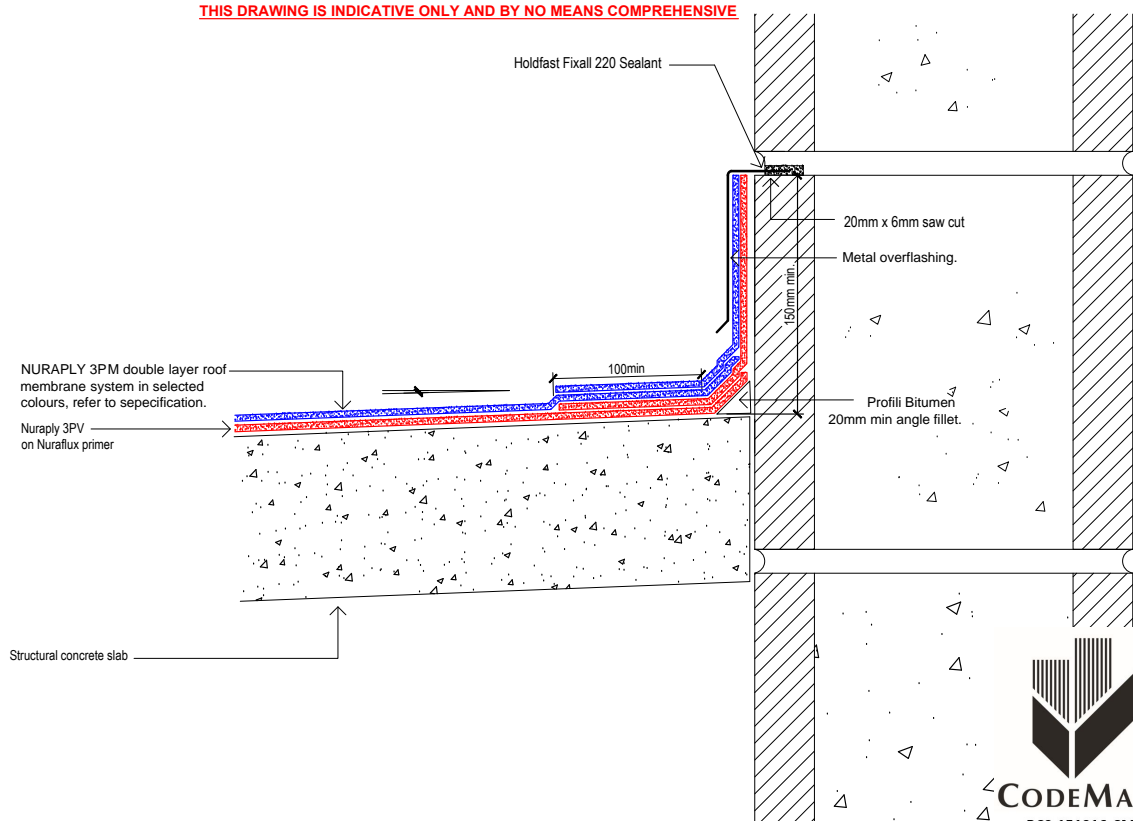
Rev E

DATE: MAY 16

DWG No:

RCPC.D1

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PRODUCT:

**NURAPLY ON CONCRETE**

DESCRIPTION:

COLD ROOF - NURAPLY 3P UPSTAND TERMINATION DETAIL

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

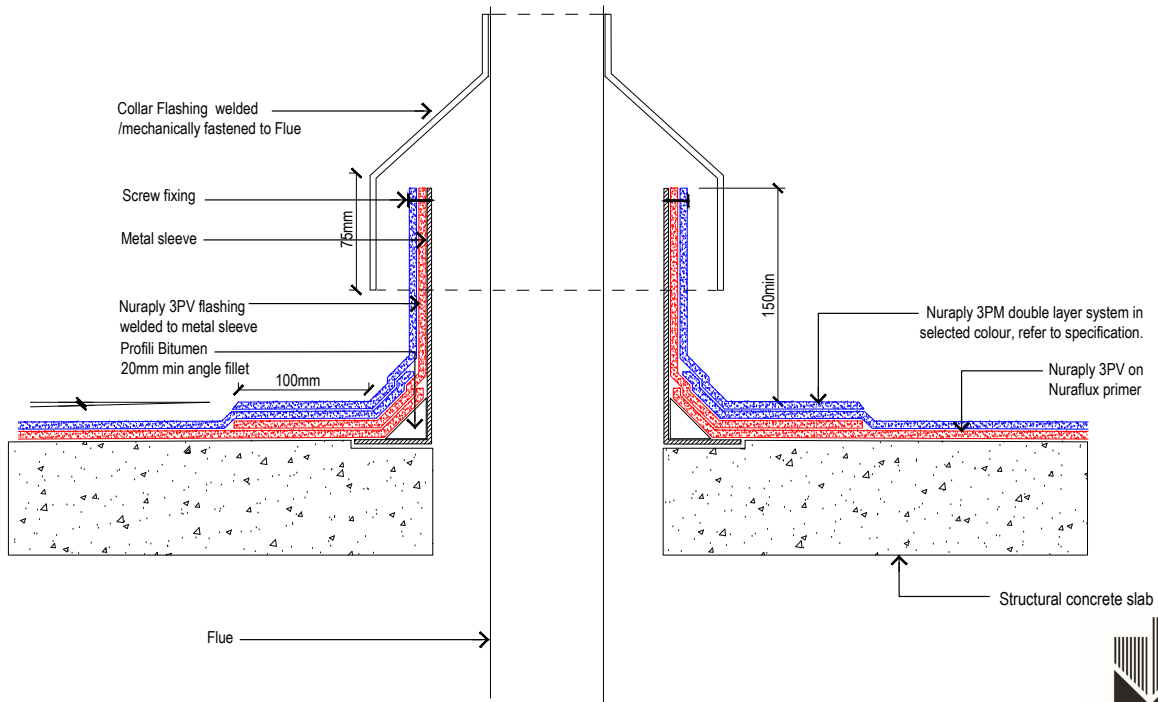
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DATE: MAY 16

DWG No:

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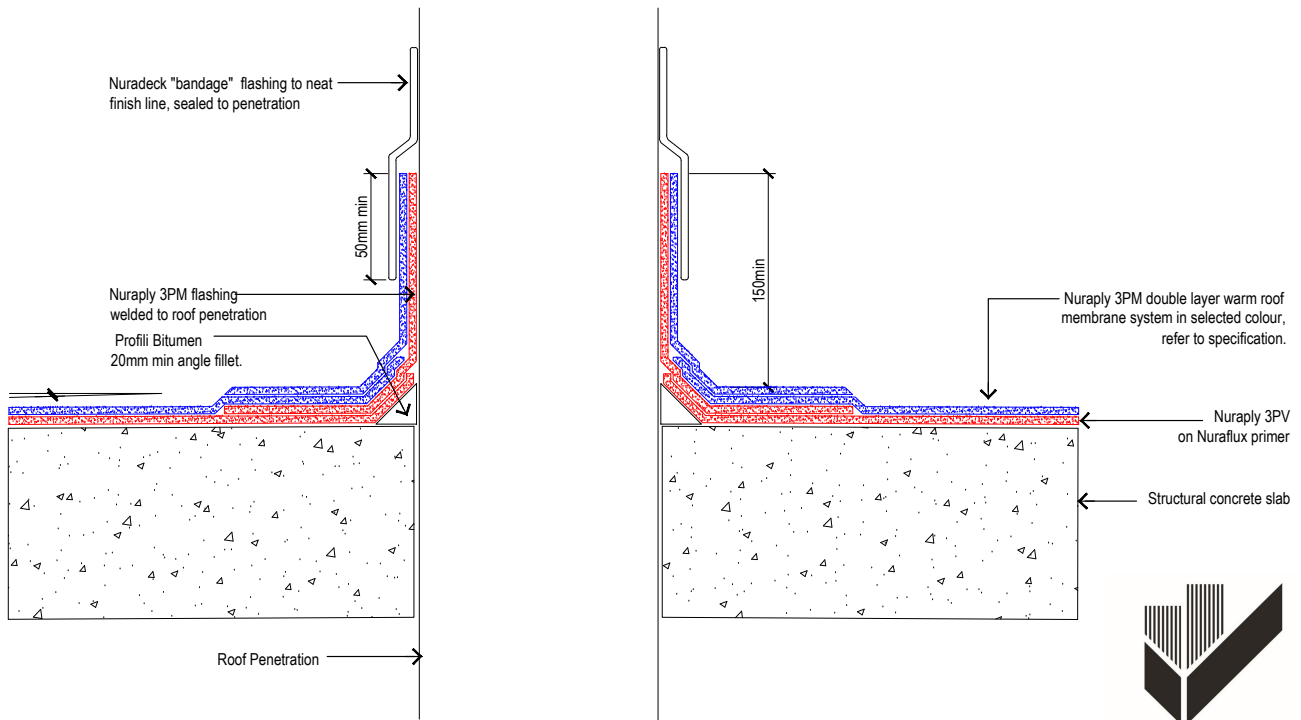


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PRODUCT: <b>NURAPLY 3PM</b>			
DESCRIPTION: COLD ROOF - FLUE DETAIL			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RCPC.D3	
REVISION: Rev E	DATE: MAY 16		

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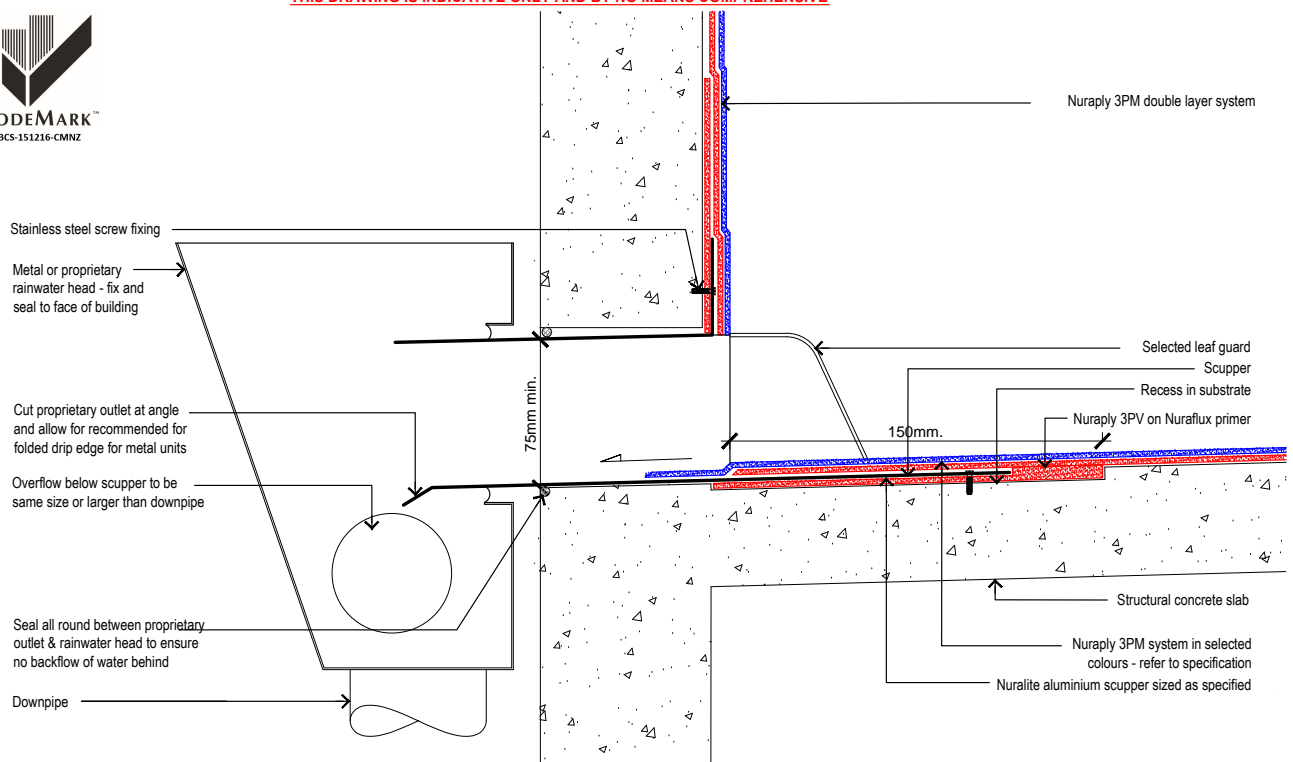


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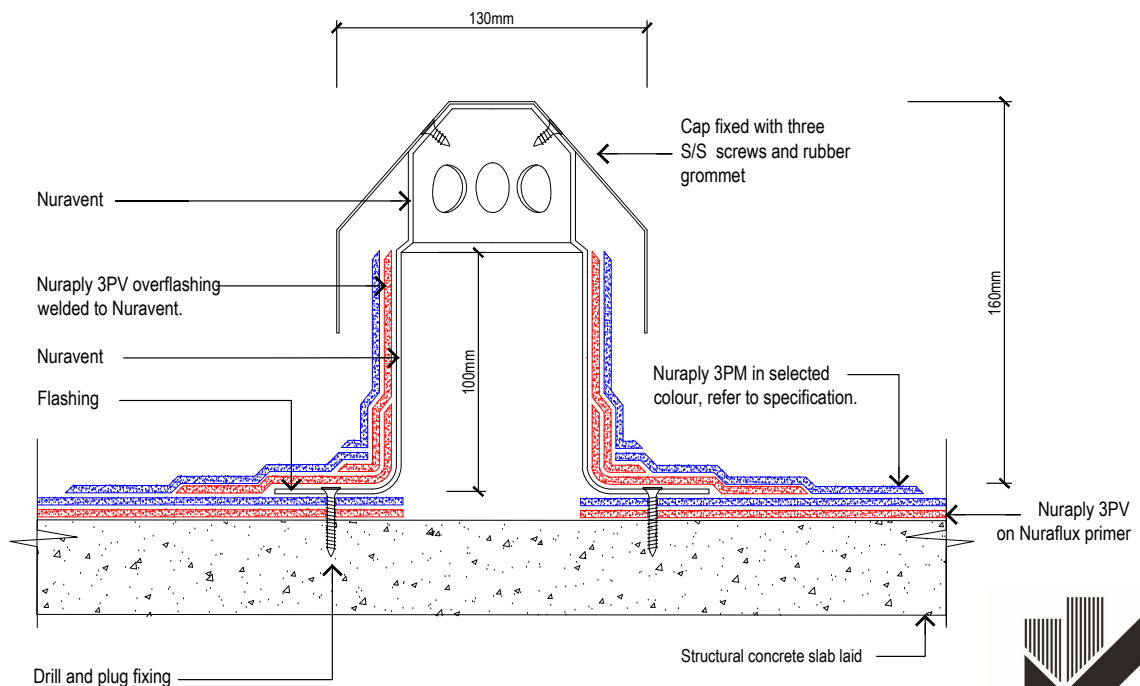
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PRODUCT: <b>NURAPLY ON CONCRETE</b>			
DESCRIPTION: COLD ROOF - ROOF PENETRATION WITH INTEGRAL FLASHING			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RCPC.D2	
REVISION: Rev E	DATE: MAY 16		

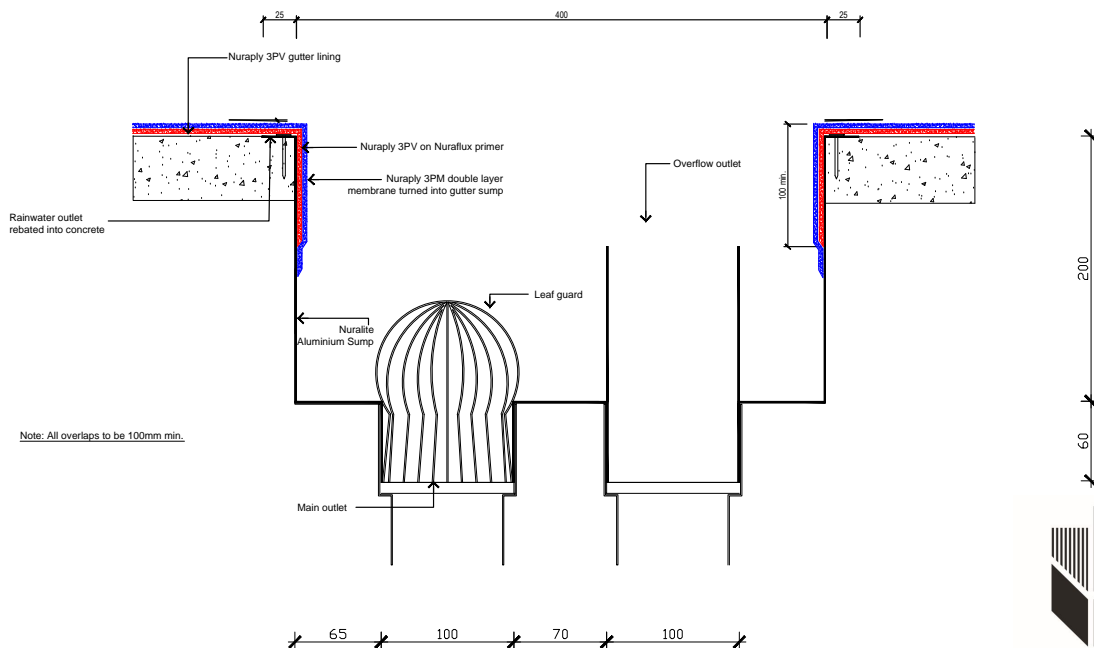
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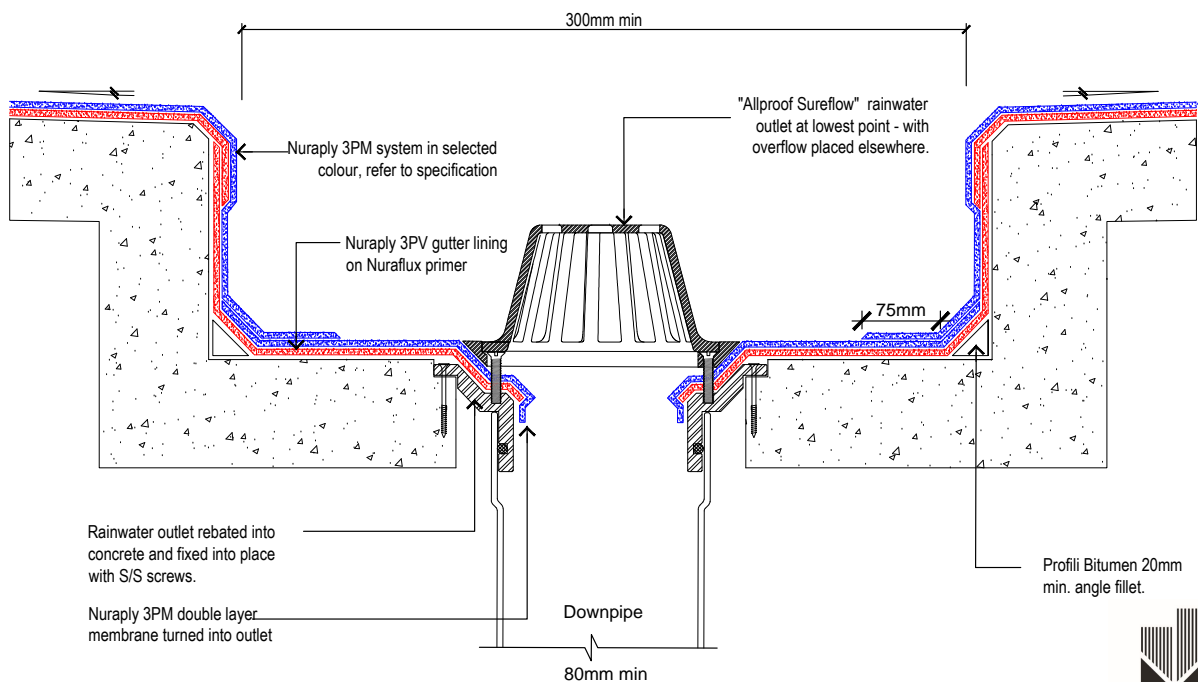


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PRODUCT: <b>NURAPLY ON CONCRETE</b>			
DESCRIPTION: <b>SQUARE SUMP DETAIL</b>			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RCPC.G5	
REVISION: Rev E	DATE: MAY 16		

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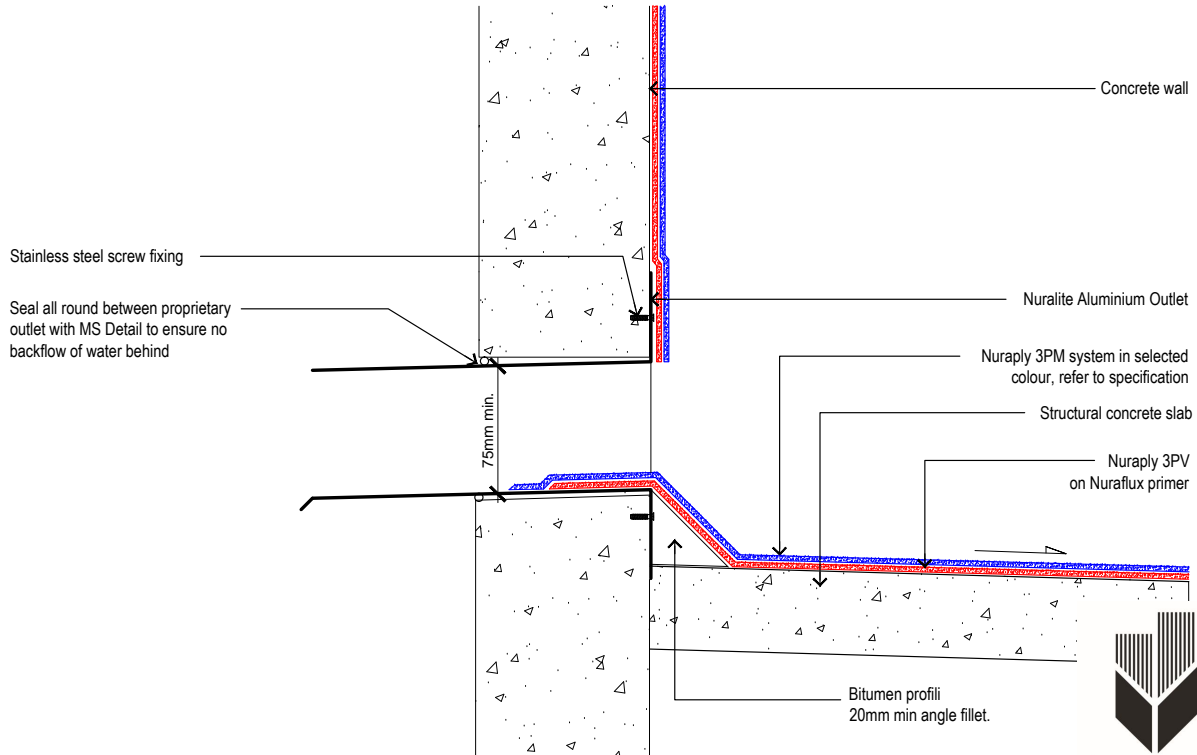


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PRODUCT: <b>NURAPLY 3PV ON CONCRETE</b>			
DESCRIPTION: <b>COLD ROOF - RAINWATER OUTLET IN BOX GUTTER DETAIL</b>			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RCPC.G1	
REVISION: Rev E	DATE: MAY 16		

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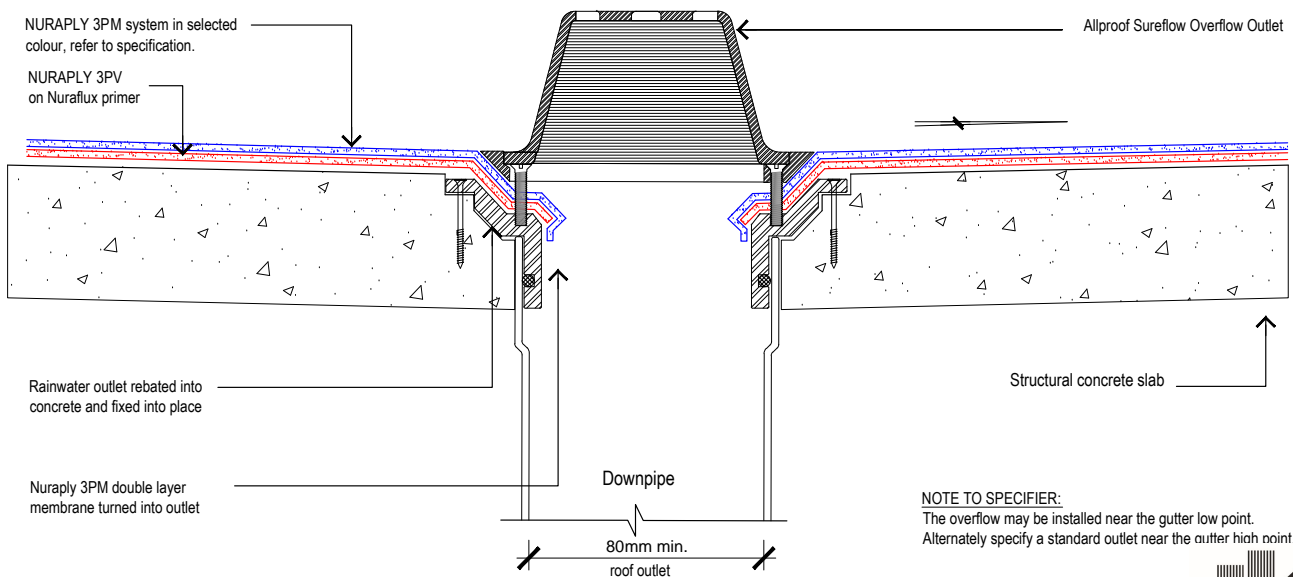


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PRODUCT: <b>NURAPLY PARAPET OVERFLOW OUTLET</b>			
DESCRIPTION:			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: <b>RCPC.G7</b>	
REVISION: Rev E	DATE: MAY 16		

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**NOTE TO SPECIFIER:**  
The overflow may be installed near the gutter low point.  
Alternately specify a standard outlet near the gutter high point.



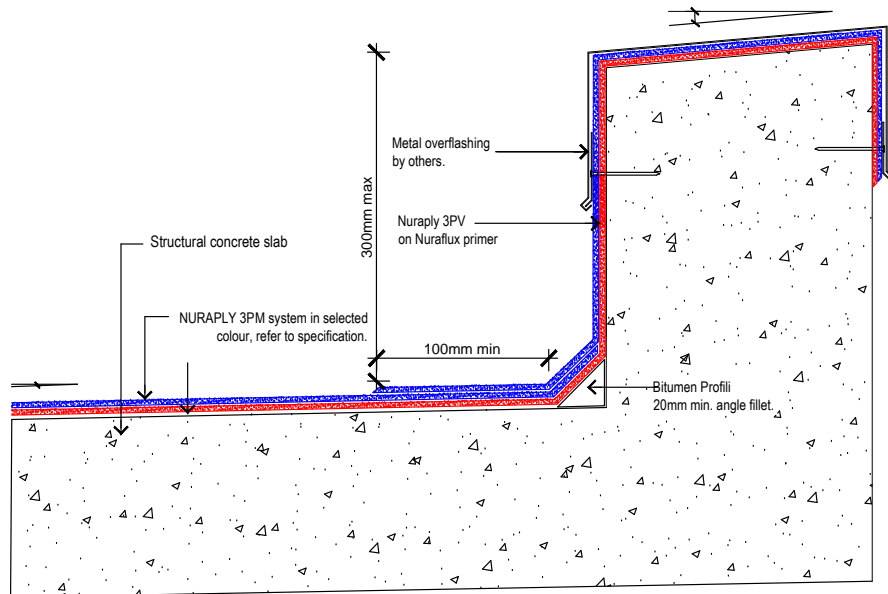
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PRODUCT: <b>NURAPLY ON CONCRETE</b>			
DESCRIPTION: <b>COLD ROOF- OVERFLOW</b>			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: <b>RCPC.G6</b>	
REVISION: Rev E	DATE: MAY 16		



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PRODUCT:

**NURAPLY ON CONCRETE**

DESCRIPTION:

COLD ROOF - SHORT PARAPET

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

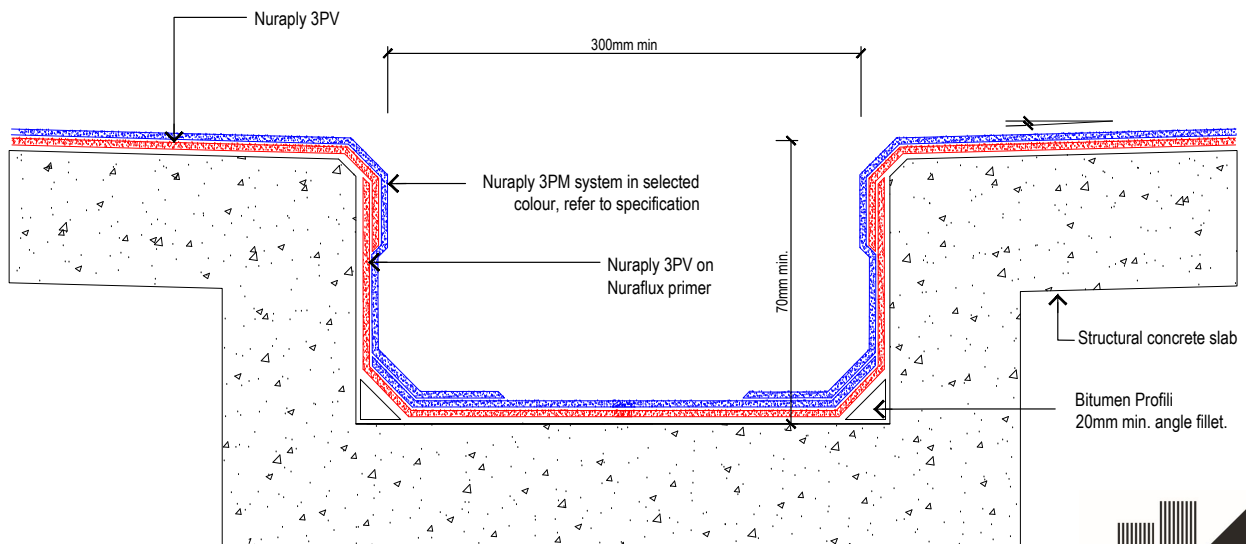
DATE:

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DWG No:

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PRODUCT:

**NURAPLY 3PV ON CONCRETE**

DESCRIPTION:

COLD ROOF - INTERNAL BOX GUTTER DETAIL

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

DATE:

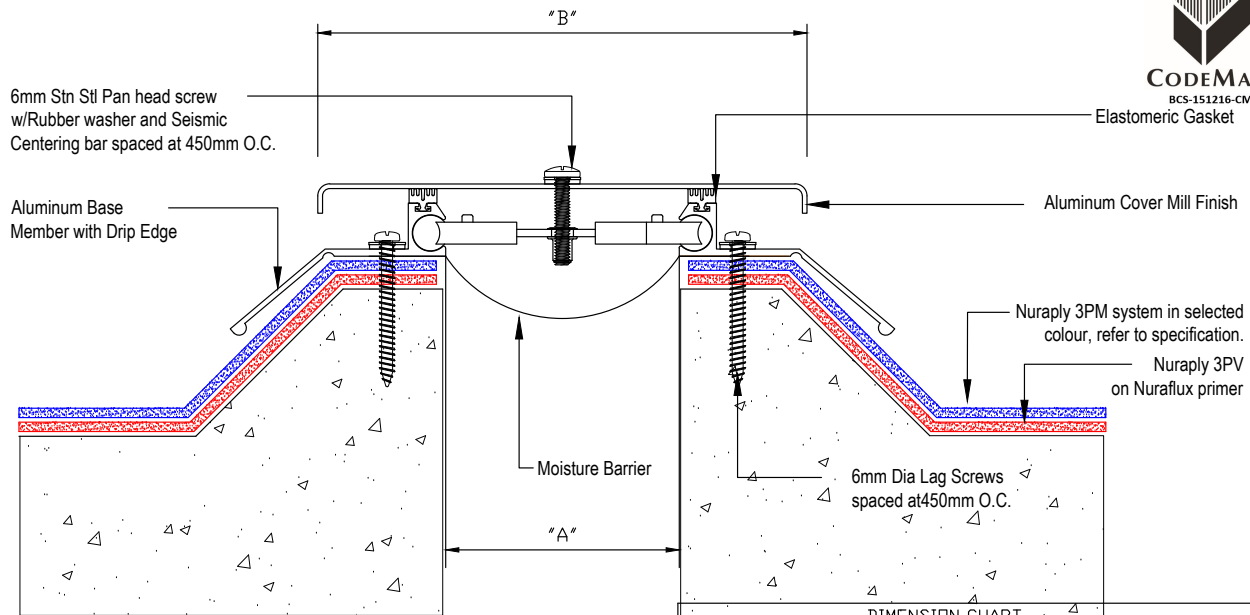
MAY 16

DWG No:

RCPC.H1



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DIMENSION CHART

Model	"A" @ Min.	"A" @ Mid	"A" @ Max.	"B"	Total Movement
RFC-200	6	50	75	160	75
RFC-400	6	100	150	110	150
RFC-600	6	150	230	290	230
RFC-800	6	205	305	365	305
RFC-1000	6	255	380	430	380
RFC-1200	6	305	460	500	460
RFC-1800	6	460	685	730	685
RFC-2400	6	610	915	960	915



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PRODUCT:

**NURAPLY ON CONCRETE**

DESCRIPTION:

COLD ROOF - MAJOR EXPANSION JOINT / WABO ROOF COVER

SCALE:

NTS

PREVIOUS DWG No: New

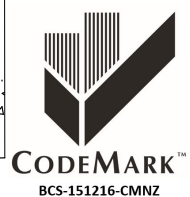
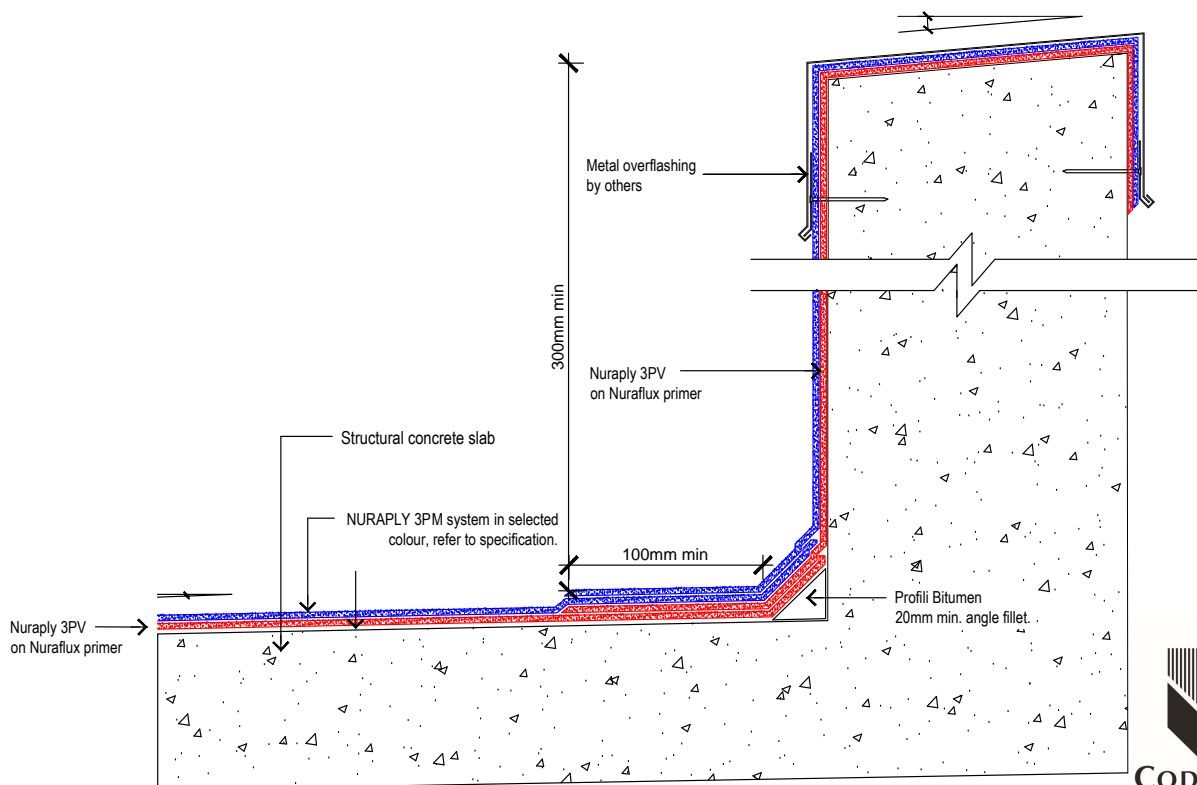
REVISION:

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DATE: MAY 16

DWG No: RCPC.M1

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PRODUCT:

**NURAPLY ON CONCRETE**

DESCRIPTION:

COLD ROOF - HIGH PARAPET

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

Rev E

DATE: MAY 16

DWG No: RCPC.H6

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Nuralite 3PM system in selected colour, refer to specification.

Nuralite 3P V-SA welded and nailed to bargeboard with clouts.

70mm min

Nuralite 3PV - SA  
Ikofix fastener

Enertherm PIR insulation  
depth as specified

Nuralite ALU vapour barrier  
on Nuraflux primer

Selected Dimond NPM 900  
metal tray screwed to  
supporting structure

Selected wall insulation extending  
to roof substrate



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PRODUCT: <b>NURATHERM ON METAL TRAY</b>			
DESCRIPTION: <b>WARM ROOF - NON DRAINING WATERCHECK DETAIL</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RMPW.B1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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Nuralite 3PM system in selected colour, refer to specification.

Stainless steel screw fixing

Stainless steel screw fixing

Metal angle

50mm min  
overhang

Selected guttering installed to  
manufacturers specification.

Nuralite 3PV - SA  
Ikofix fastener

Enertherm PIR insulation  
depth as specified

Nuralite ALU vapour barrier on  
Nuraflux primer

Selected Dimond NPM900 metal tray  
screwed to supporting structure

Selected wall insulation  
extending to roof substrate



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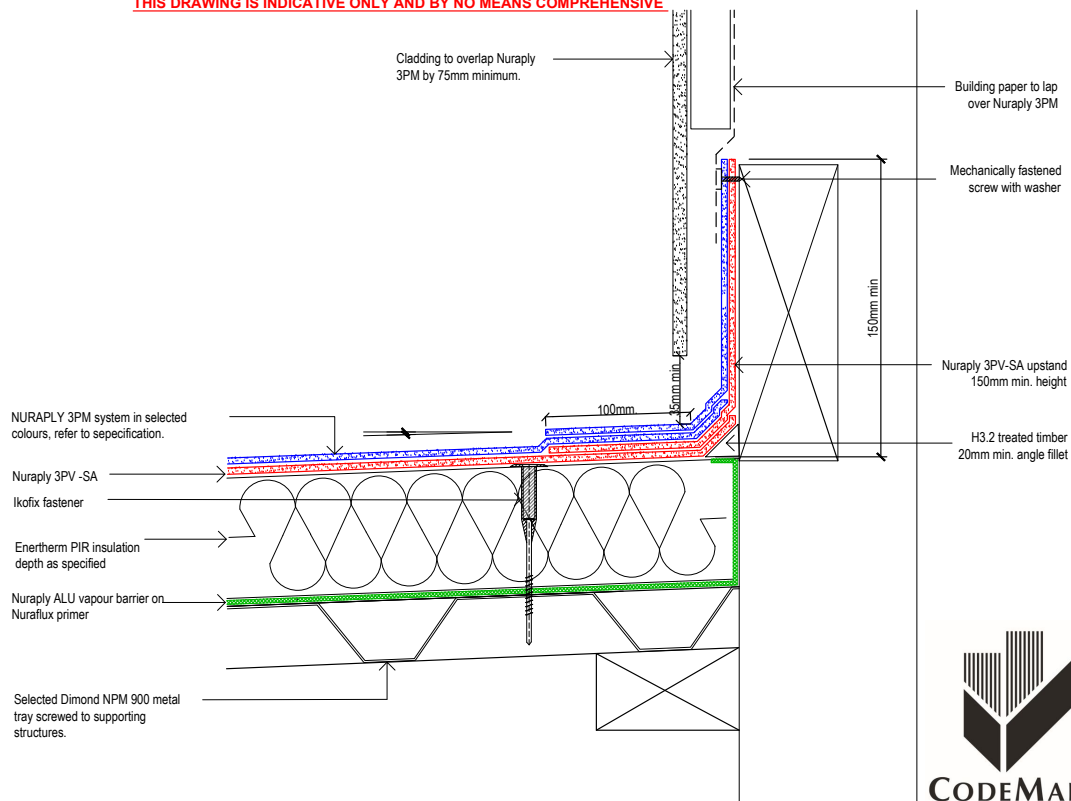


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PRODUCT: <b>NURATHERM ON METAL TRAY</b>			
DESCRIPTION: <b>WARM ROOF - WRAPPED METAL ANGLE EDGE INTO GUTTER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RMPW.A2</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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PRODUCT:

**NURATHERM IN METAL TRAY**

DESCRIPTION:

WARM ROOF - UPSTAND BEHIND CLADDING

SCALE:

NTS

PREVIOUS DWG No:

New

DATE:

MAY 16

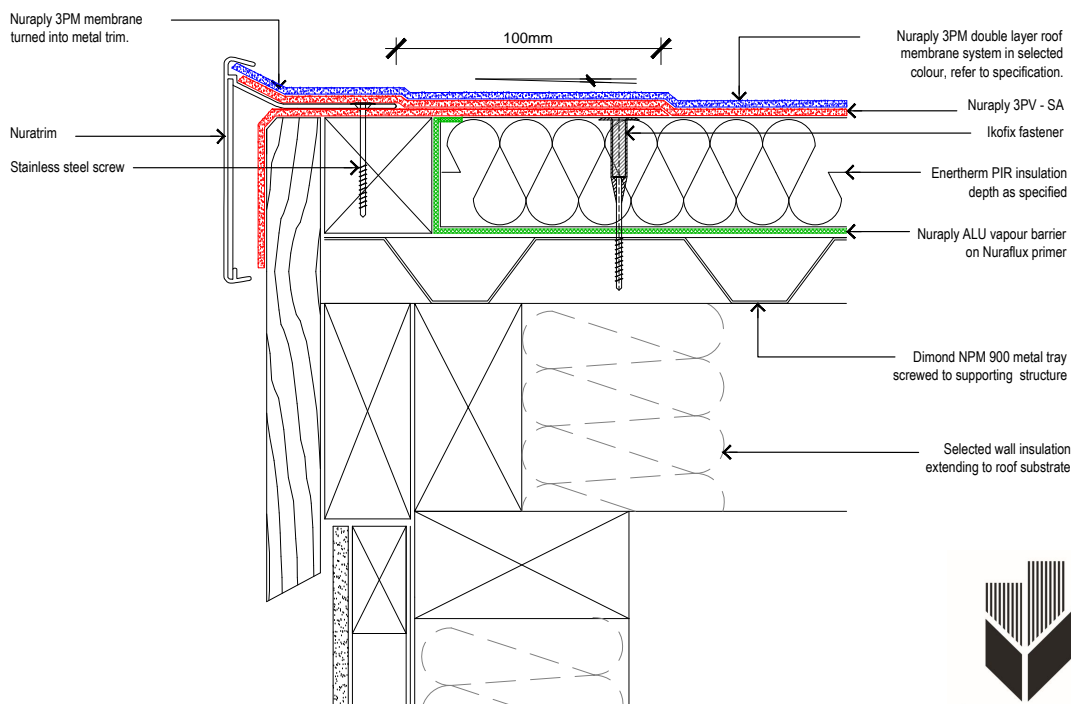
DWG No:

RMPW.C1

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PRODUCT:

**NURATHERM ON METAL TRAY**

DESCRIPTION:

WARM ROOF - NURATHRIM EDGE DETAIL

SCALE:

NTS

PREVIOUS DWG No:

New

DATE:

MAY 16

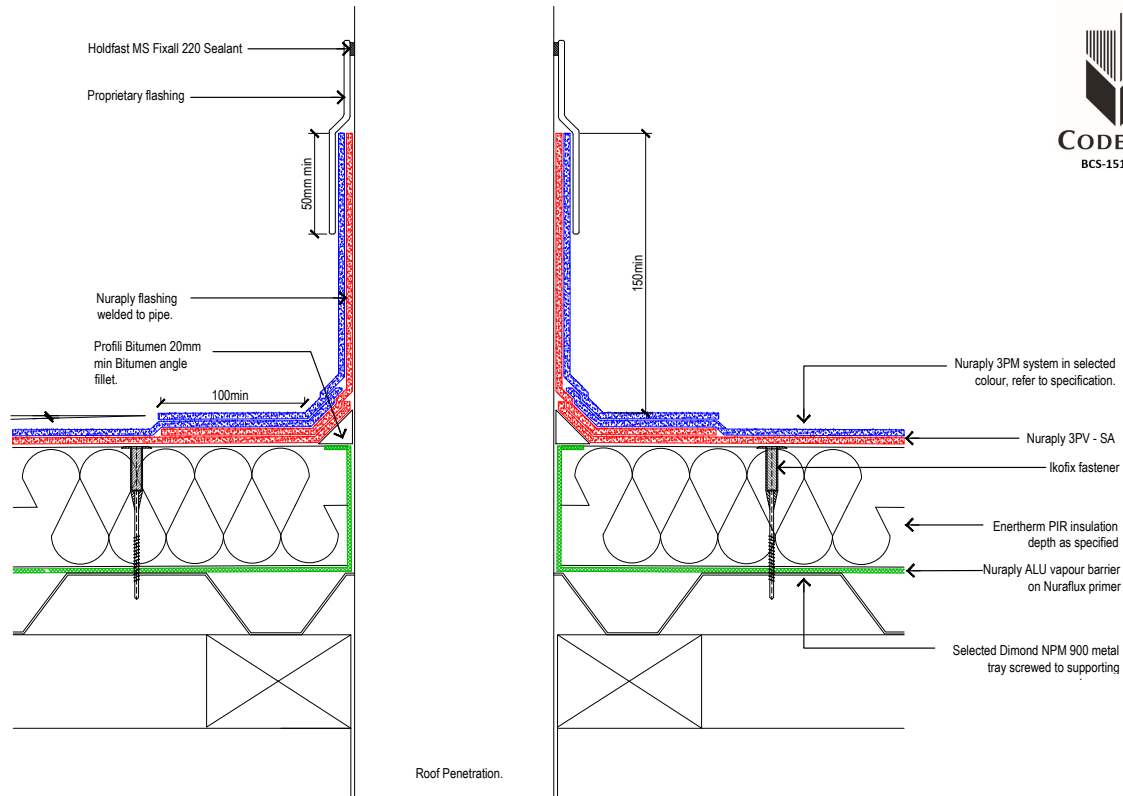
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RMPW.B3

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PRODUCT:

**NURATHERM ON METAL TRAY**

DESCRIPTION:

WARM ROOF - ROOF PENETRATION WITH INTEGRAL FLASHING

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

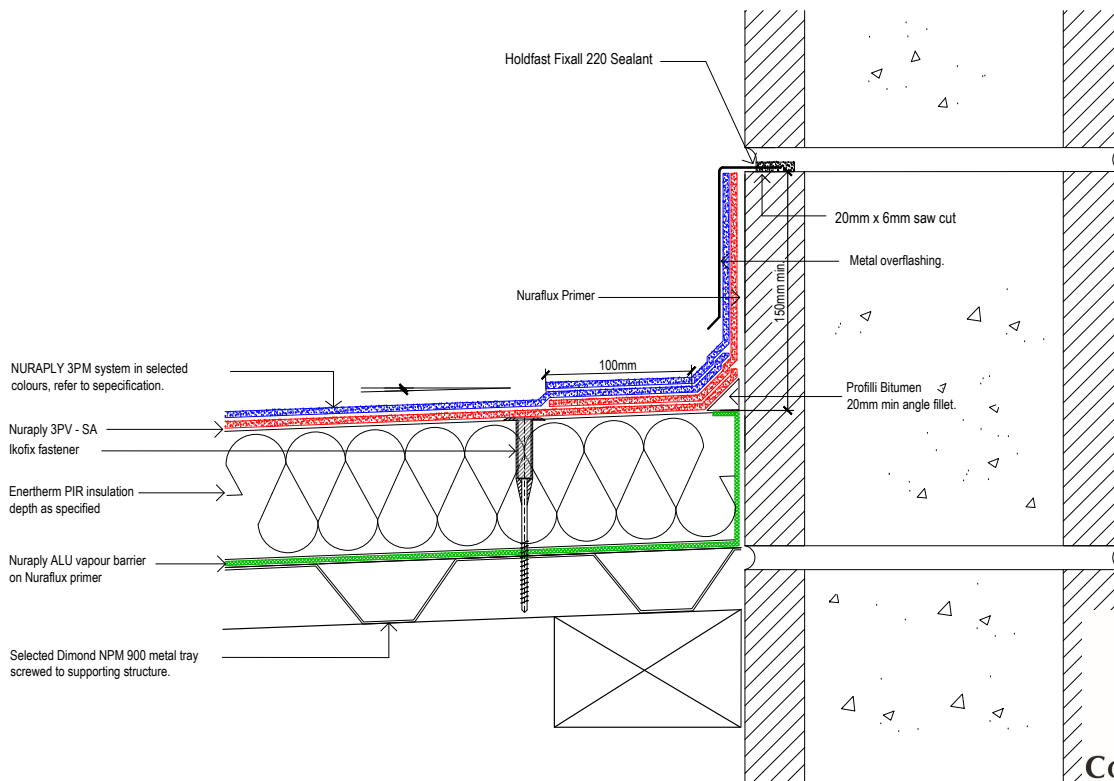
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DWG No:

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PRODUCT:

**NURATHERM ON METAL TRAY**

DESCRIPTION:

WARM ROOF - UPSTAND INTO CHASE

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

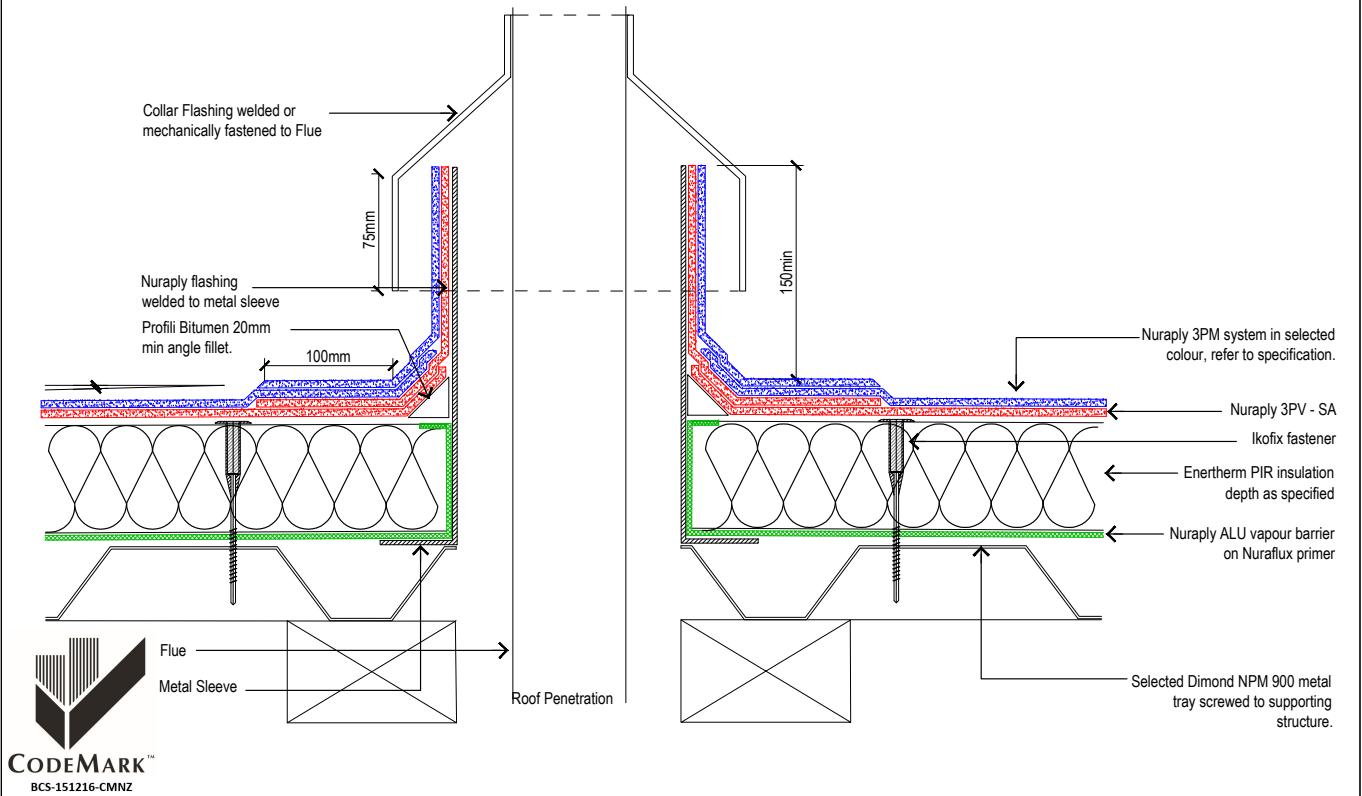
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DATE: MAY 16

DWG No:

RMPW.C2

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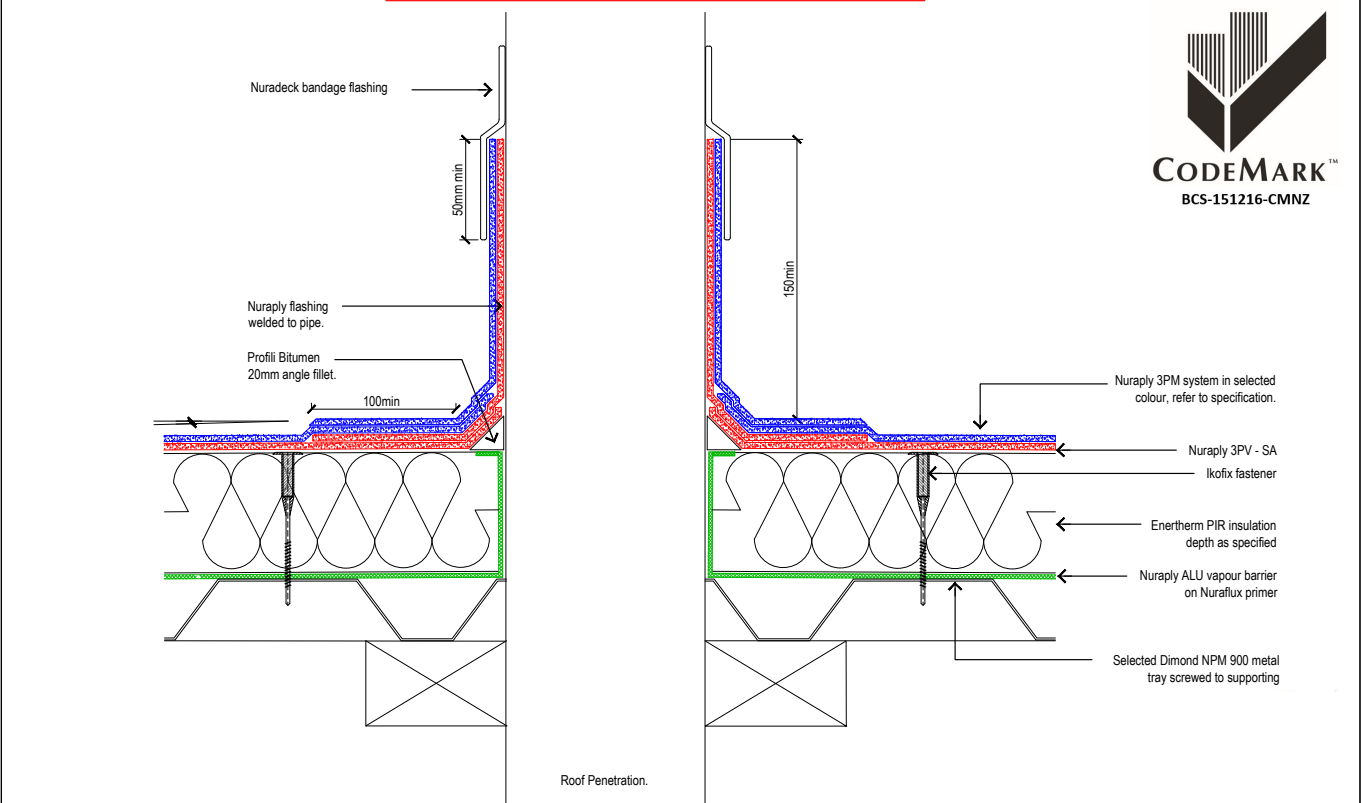


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PRODUCT: <b>NURATHERM ON METAL TRAY</b>			
DESCRIPTION: WARM ROOF - FLUE DETAIL/PIPE PENETRATION			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RMPW.D3	
REVISION: Rev E	DATE: MAY 16		

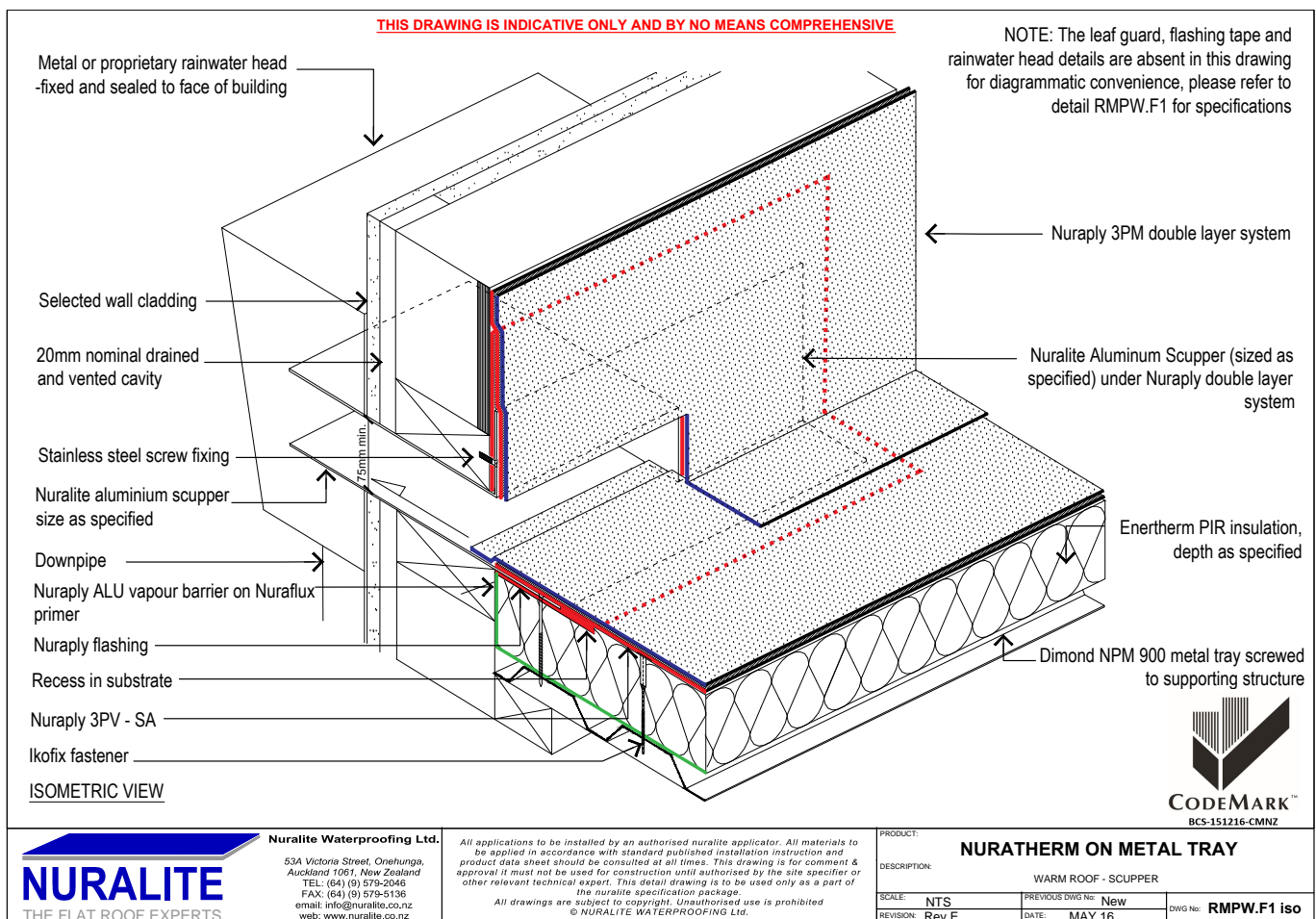
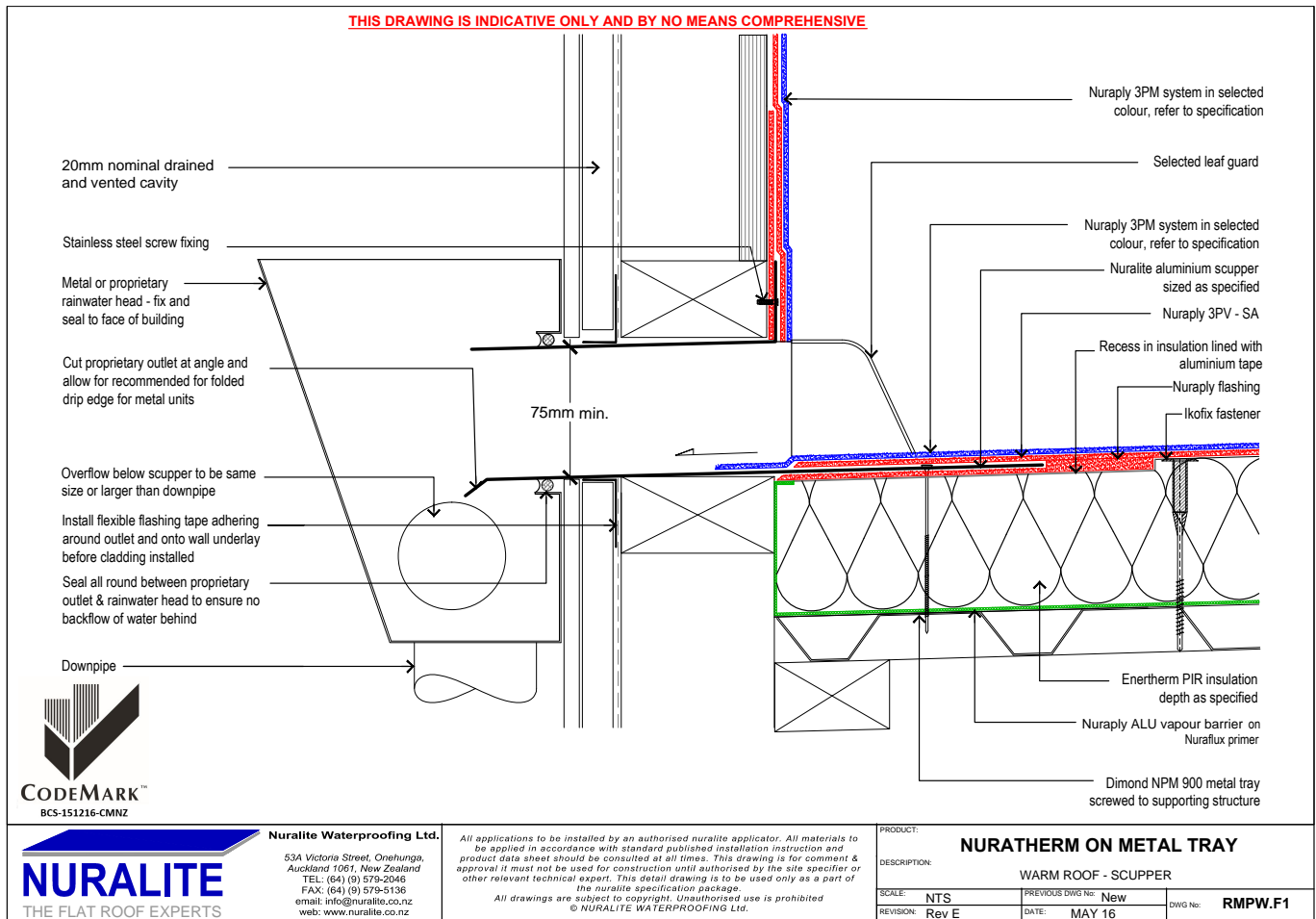
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PRODUCT: <b>NURATHERM ON METAL TRAY</b>			
DESCRIPTION: WARM ROOF - ROOF PENETRATION WITH NURADECK FLASHING			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RMPW.D2	
REVISION: Rev E	DATE: MAY 16		





300mm min.

NuraPLY 3PM system in selected colour, refer to specification

"Allproof Sureflow" rainwater outlet at lowest point - with overflow place elsewhere.

NuraPLY 3PV - SA

Ikofix fastener

NuraPLY ALU vapour barrier on Nuraflux primer

Enertherm PIR insulation depth as specified.

Bitumen Profil 20mm min. angle fillet

Selected Dimond NPM900 metal tray screwed to supporting structure

NuraPLY 3PM double layer membrane turned into outlet

75mm min. roof outlet

Downpipe



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PRODUCT:	
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### NURATHERM ON METAL TRAY

DESCRIPTION:

DESCRIPTION: WARM ROOF - SMALL RAINWATER OUTLET IN BOX GUTTER

SCALE:

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LOGIQUE DUC M...

LET IN BOX OUTER

NURAPLY 3PM system in selected colour, refer to specification.

NURAPLY 3PV - SA

Enertherm PIR insulation depth as specified

"Allproof Sureflow" rainwater outlet at lowest point - with overflow placed elsewhere.

NURAPLY 3PM membrane turned into outlet

Ikofix fastener

Downpipe

80mm min. roof outlet

Dimond NPM 900 metal tray screwed to supporting structure

NURAPLY ALU vapour barrier on Nuraflux primer



**CODemark**  
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WARM ROOF - RAINWATER OUTLET

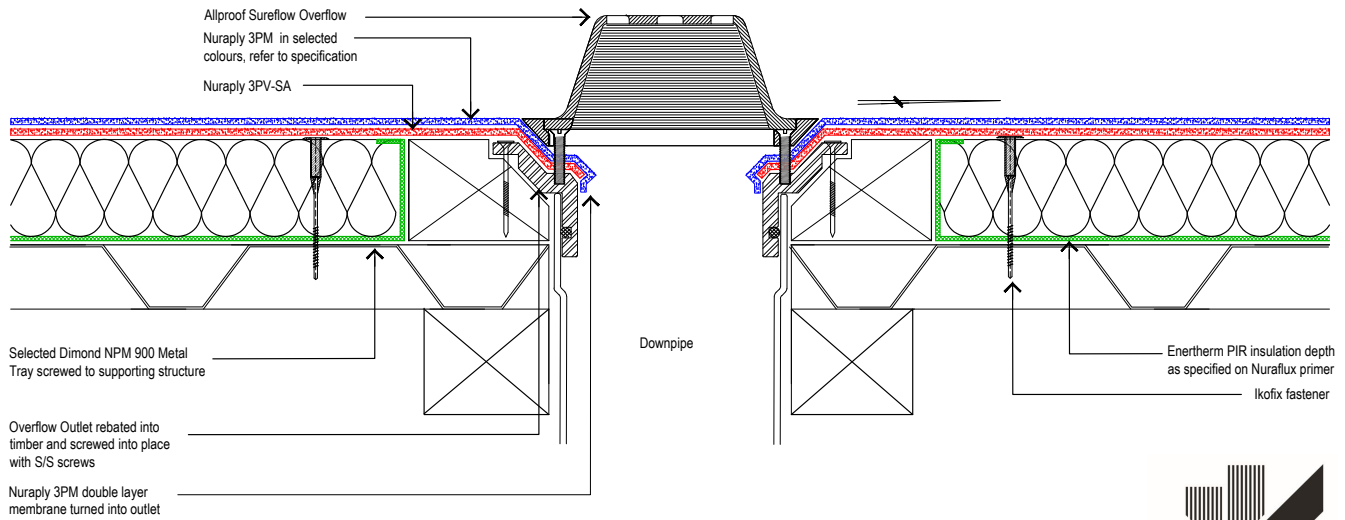
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RM ROOF - RAINW

OUTLET

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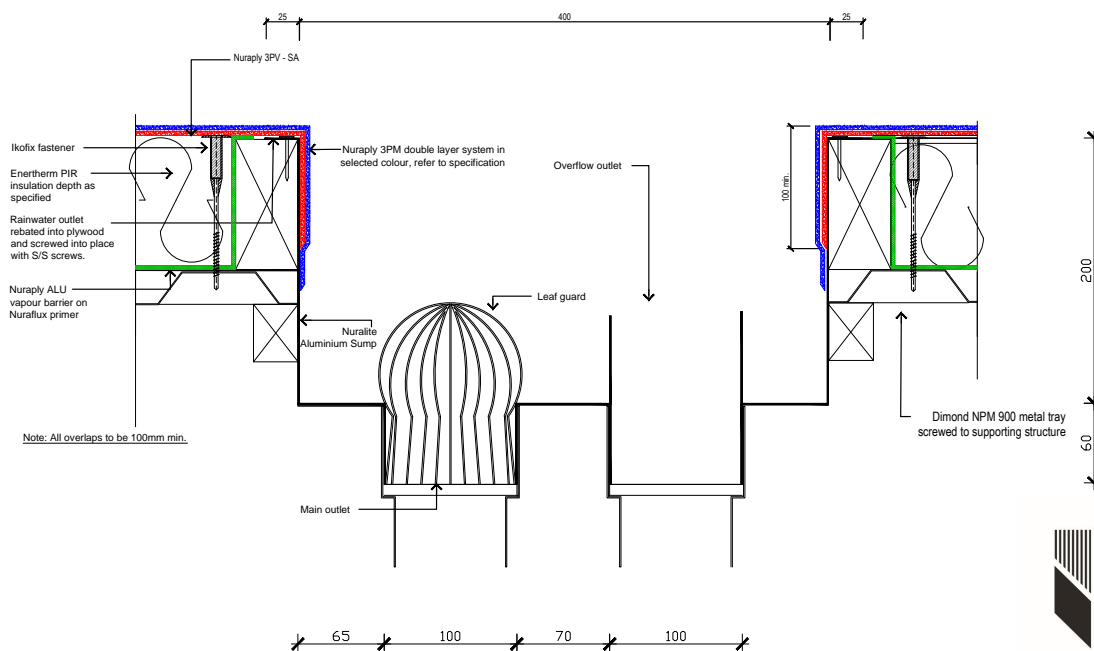


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PRODUCT: <b>NURATHERM ON METAL TRAY</b>			
DESCRIPTION: <b>WARM ROOF- OVERFLOW</b>			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RMPW.G6	
REVISION: Rev E	DATE: MAY 16		

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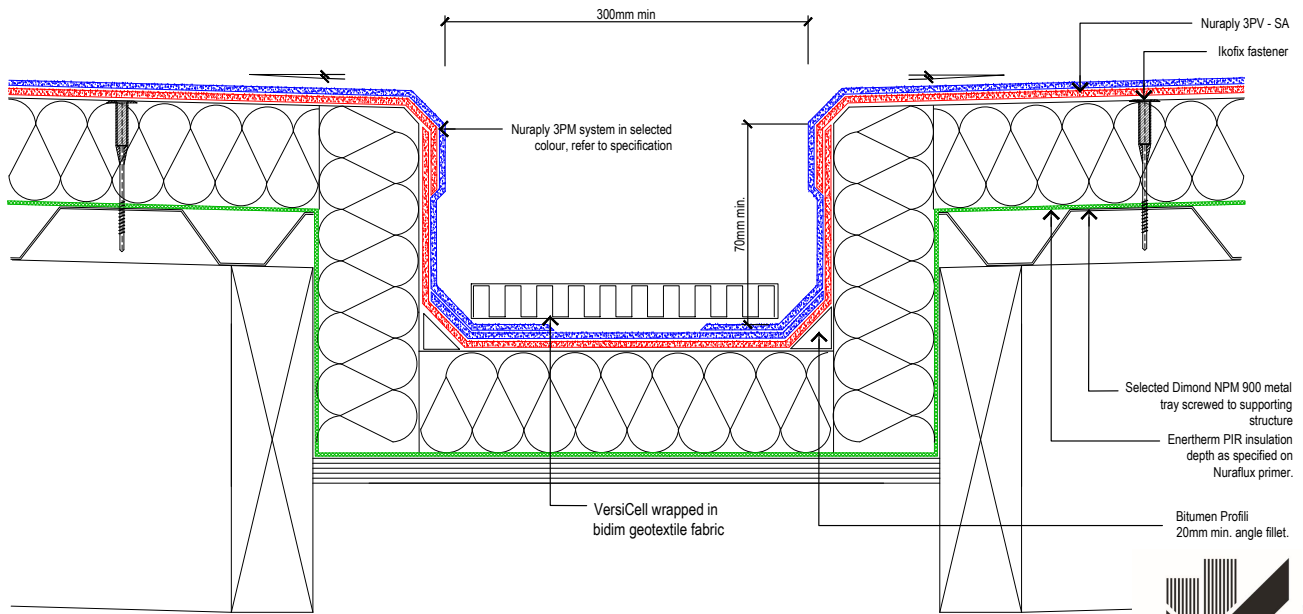
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PRODUCT: <b>NURATHERM ON METAL TRAY</b>			
DESCRIPTION: <b>SQUARE SUMP DETAIL</b>			
SCALE: NTS	PREVIOUS DWG No: New	DWG No: RMPW.G5	
REVISION: Rev E	DATE: MAY 16		



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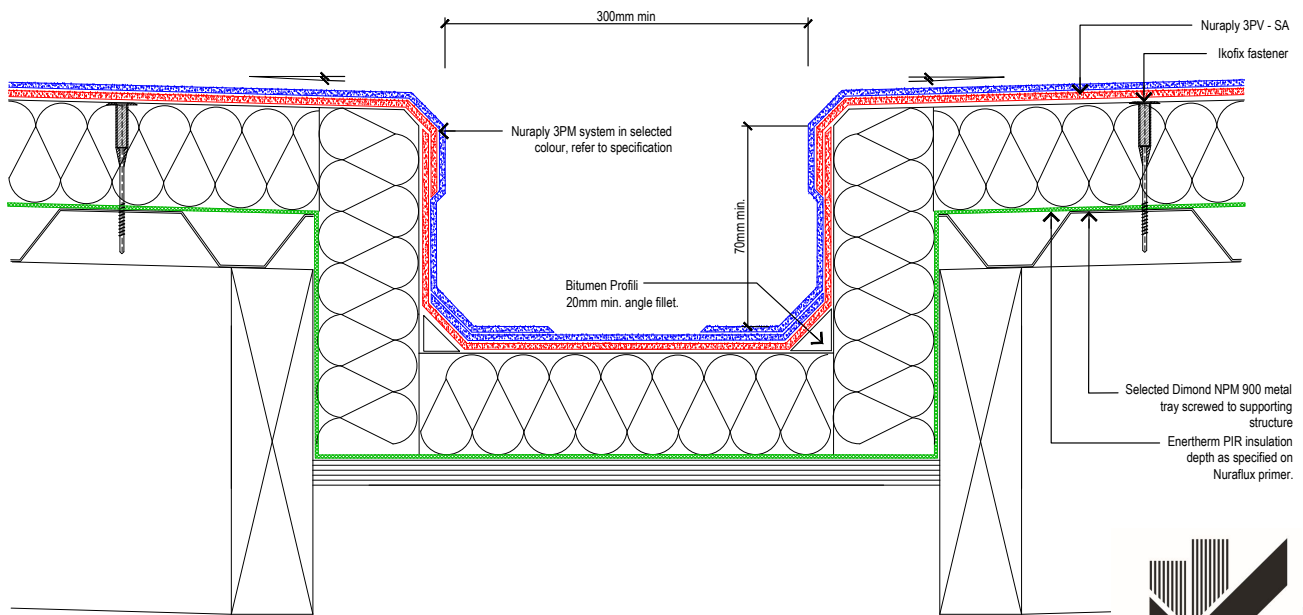


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PRODUCT: <b>NURATHERM IN METAL TRAY</b>			
DESCRIPTION: <b>SNOW ZONE - INTERNAL BOX GUTTER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RMPW.H7</b>	
REVISION: <b>Rev A</b>	DATE: <b>JUNE 16</b>		

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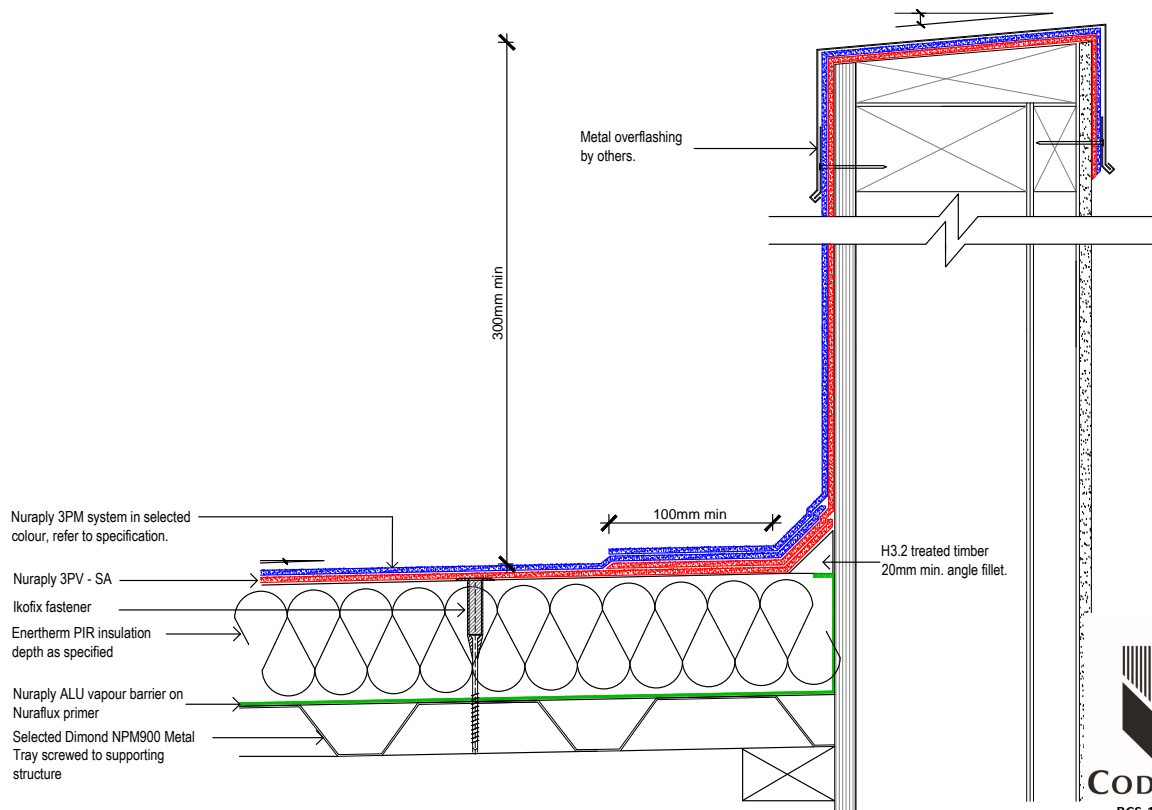


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PRODUCT: <b>NURATHERM IN METAL TRAY</b>			
DESCRIPTION: <b>WARM ROOF - INTERNAL BOX GUTTER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RMPW.H1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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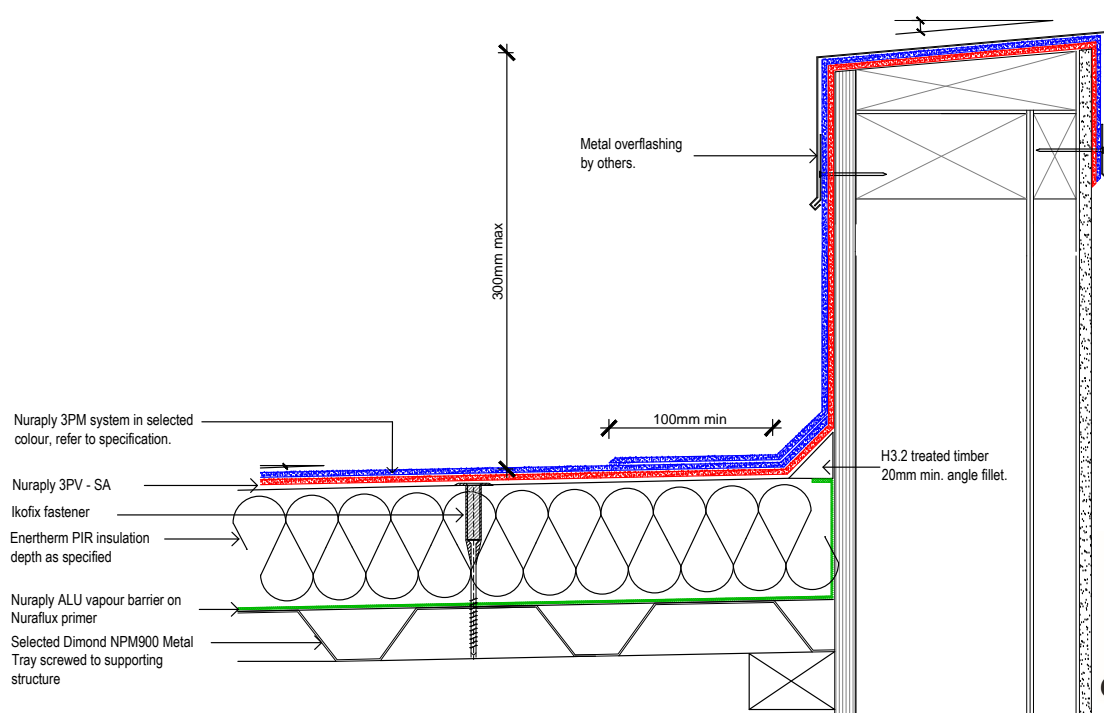


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PRODUCT: <b>NURATHERM ON METAL TRAY</b>			
DESCRIPTION: <b>WARM ROOF - HIGH PARAPET</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RMPW.H6</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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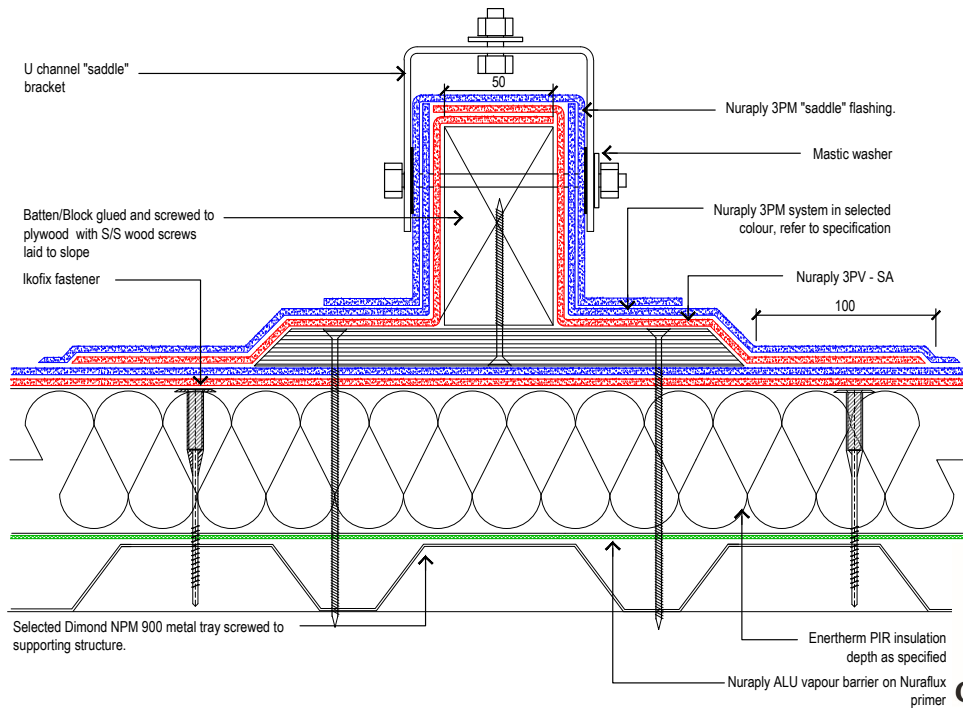
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PRODUCT: <b>NURATHERM ON METAL TRAY</b>			
DESCRIPTION: <b>WARM ROOF - LOW PARAPET</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RMPW.H5</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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Dead loads need to be positioned over a purlin for support



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PRODUCT:

**NURATHERM ON METAL TRAY**

DESCRIPTION:

WARM ROOF - UNIVERSAL MOUNTING BRACKET

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

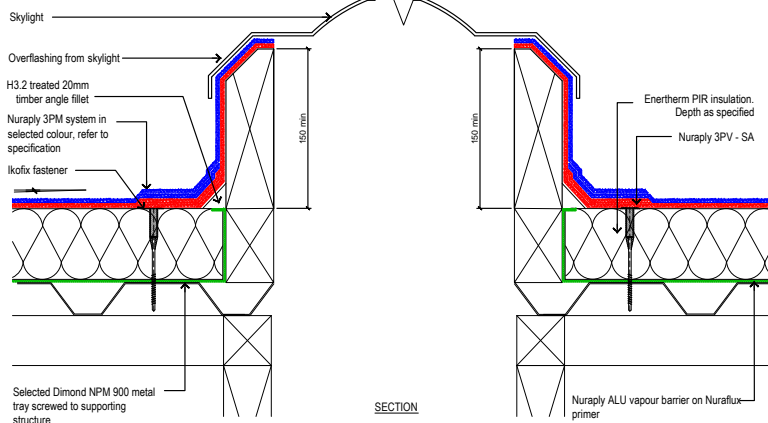
Rev E

DATE: MAY 16

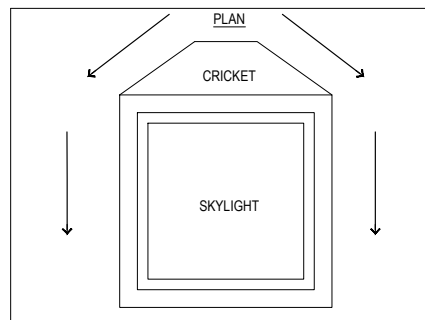
DWG No:

RMPW.K1

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SECTION



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PRODUCT:

**NURATHERM ON METAL TRAY**

DESCRIPTION:

WARM ROOF - SKYLIGHT

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

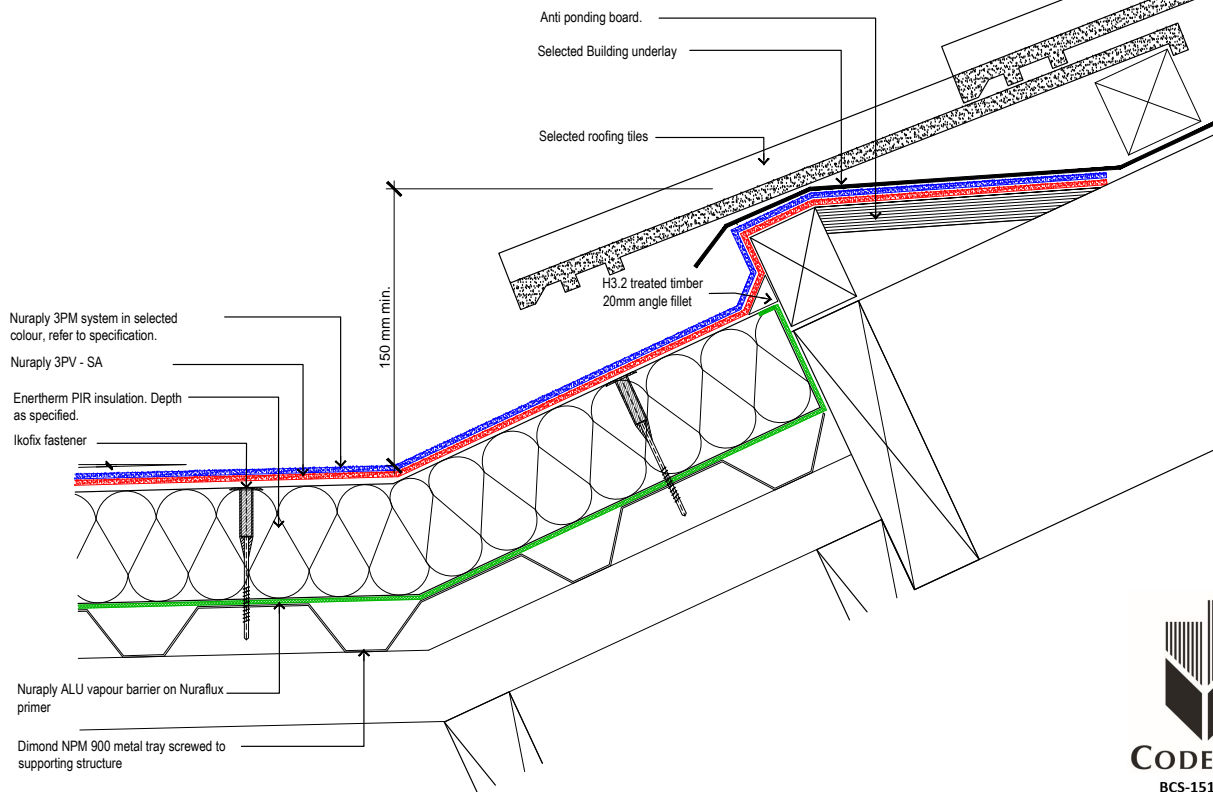
Rev E

DATE: MAY 16

DWG No:

RMPW.J1

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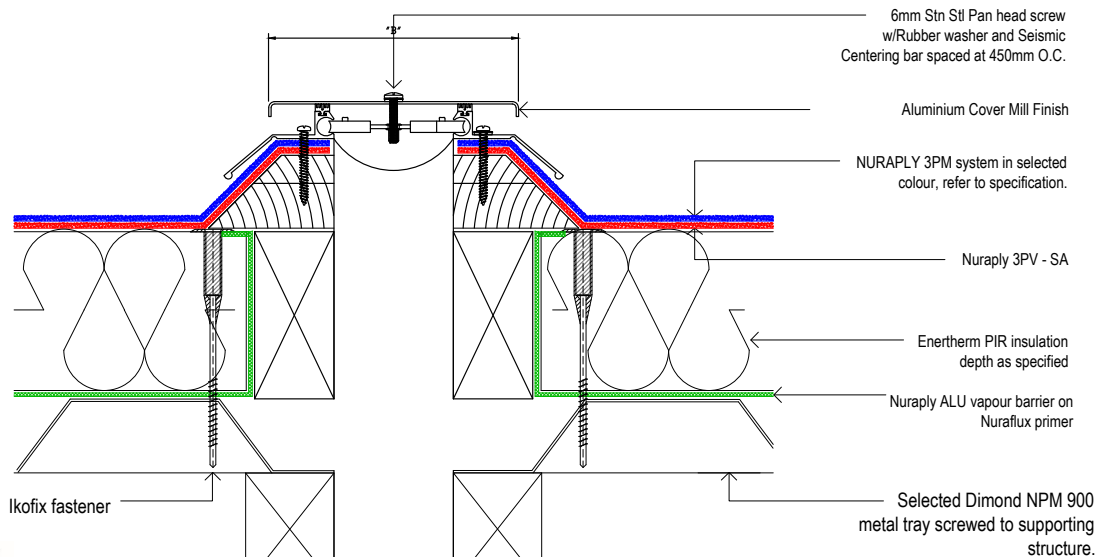


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PRODUCT:	<b>NURATHERM ON METAL TRAY</b>		
DESCRIPTION:	WARM ROOF - TILE ROOF ON MEMBRANE		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RMPW.O1

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DIMENSION CHART					
Model	*A* @ Min.	*A* @ Mid	*A* @ Max.	*B*	Total Movement
RFC-200	6	50	75	160	75
RFC-400	6	100	150	110	150
RFC-600	6	150	230	290	230
RFC-800	6	205	305	365	305
RFC-1000	6	255	380	430	380
RFC-1200	6	305	460	500	460
RFC-1800	6	460	685	730	685
RFC-2400	6	610	915	960	915

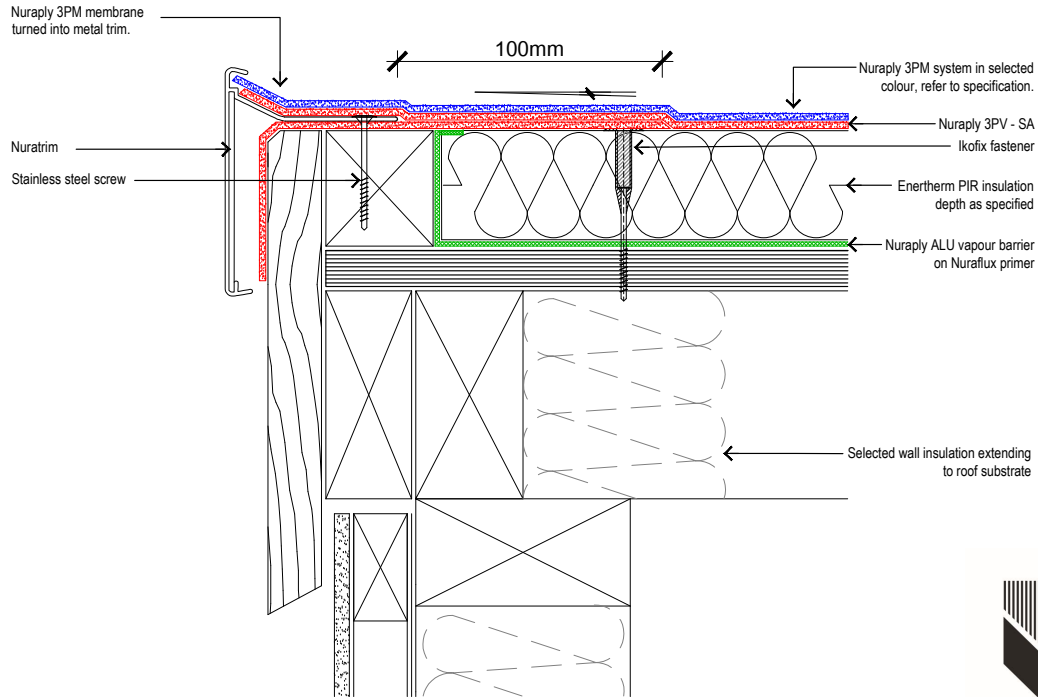


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PRODUCT:	<b>NURATHERM ON METAL TRAY</b>		
DESCRIPTION:	WARM ROOF - MAJOR EXPANSION JOINT/WABO ROOFCOVER		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RMPW.M1

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PRODUCT:

**NURATHERM ON PLYWOOD**

DESCRIPTION:

WARM ROOF - NURATRIM EDGE DETAIL

SCALE: NTS

REVISION: Rev E

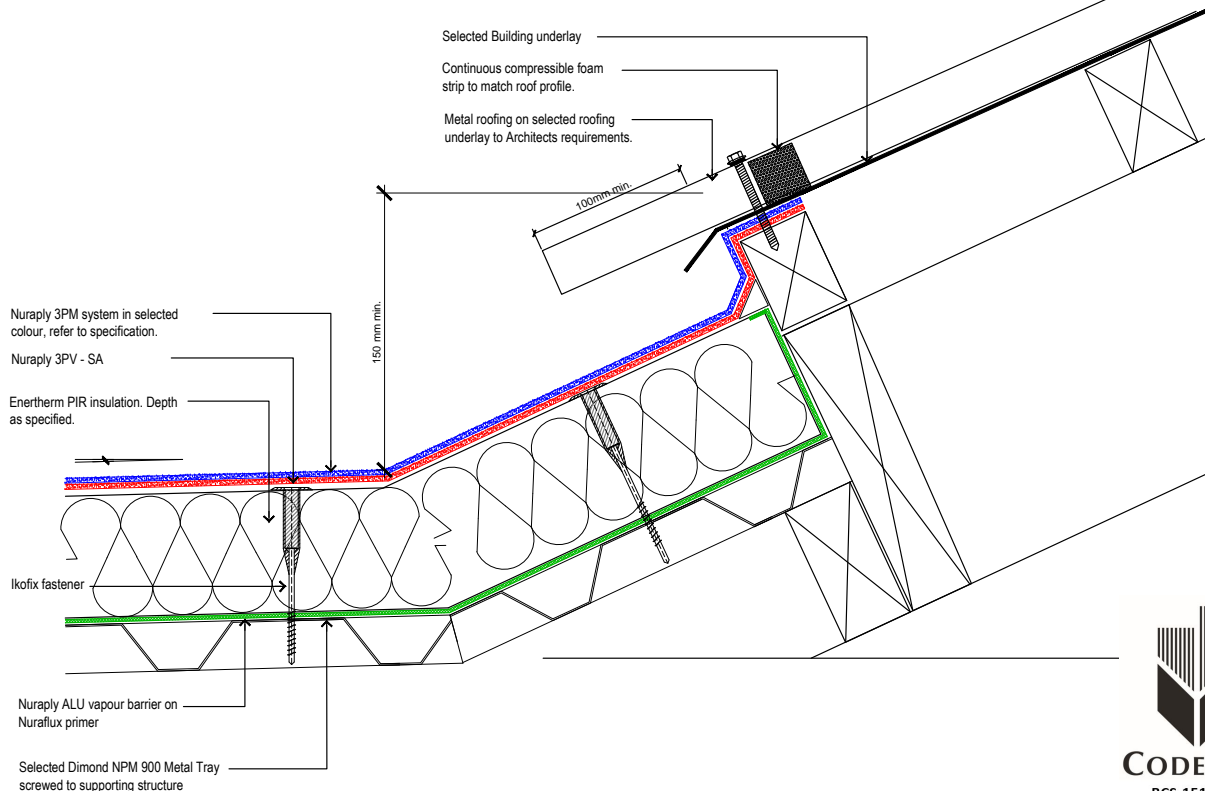
PREVIOUS DWG No: New

DATE: MAY 16

DWG No:

RPPW.B3

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PRODUCT:

**NURATHERM ON METAL TRAY**

DESCRIPTION:

WARM ROOF- METAL ROOF ONTO MEMBRANE

SCALE: NTS

REVISION: Rev E

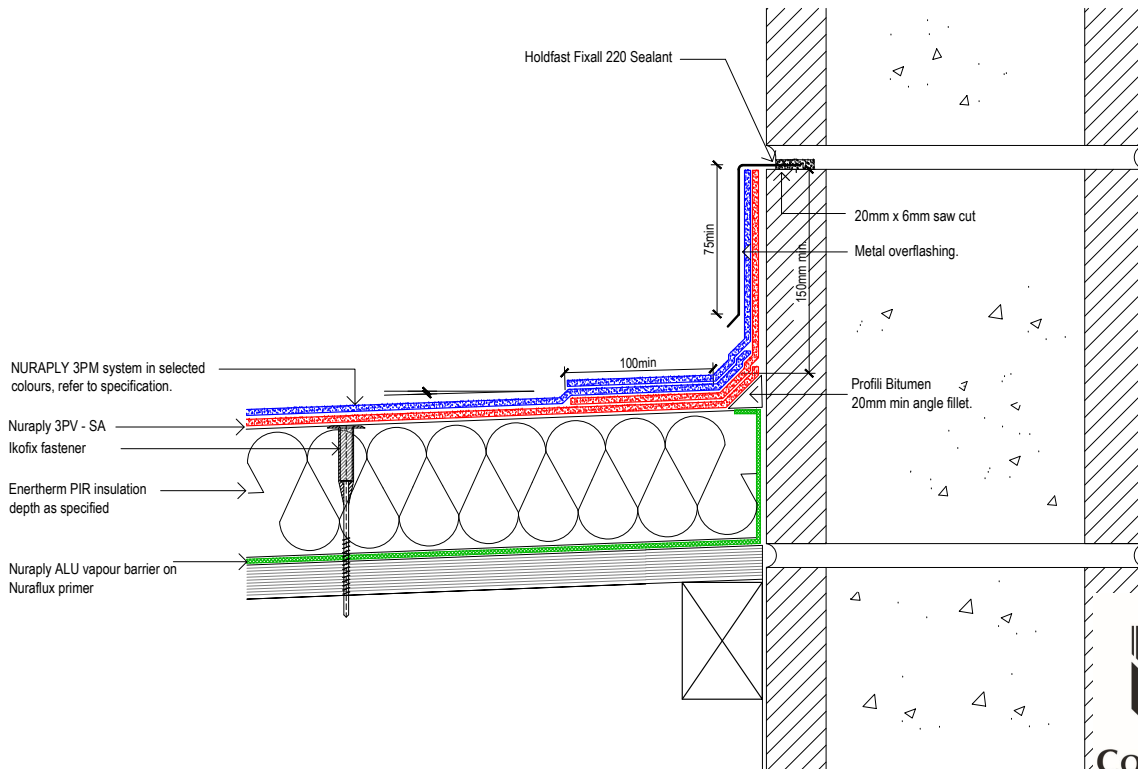
PREVIOUS DWG No: New

DATE: MAY 16

DWG No:

RMPW.02

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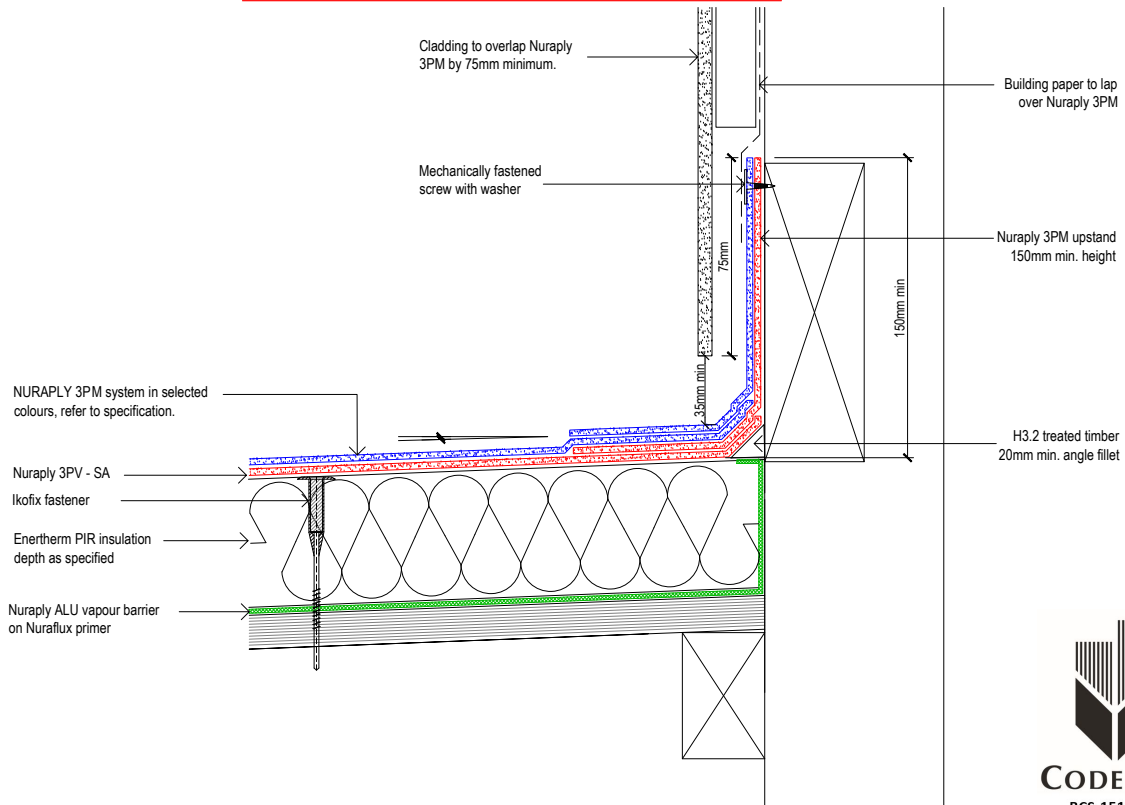


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PRODUCT:	<b>NURATHERM ON PLYWOOD</b>		
DESCRIPTION:	WARM ROOF - UPSTAND INTO CHASE		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPW.C2

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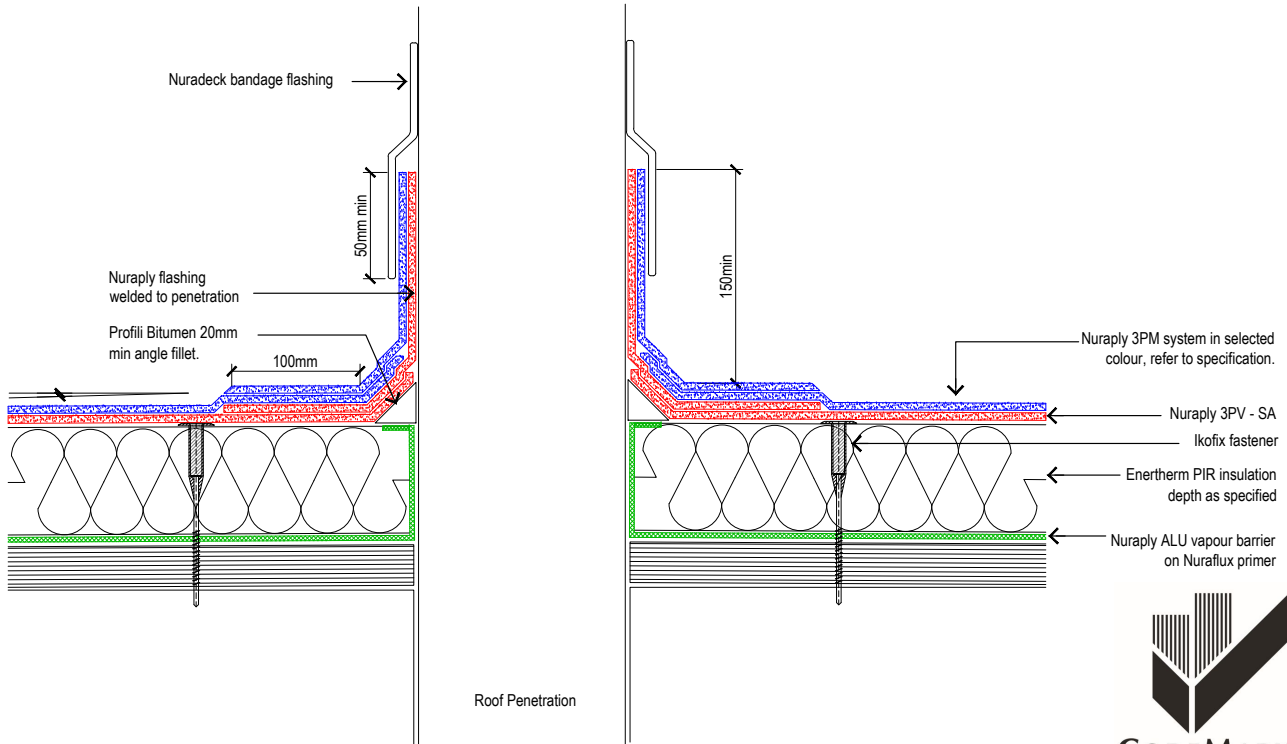
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PRODUCT:	<b>NURATHERM ON PLYWOOD</b>		
DESCRIPTION:	WARM ROOF - UPSTAND BEHIND CLADDING		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPW.C1



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PRODUCT:

**NURATHERM ON PLYWOOD**

DESCRIPTION:

WARM ROOF - ROOF PENETRATION WITH NURADECK FLASHING

SCALE:

NTS

PREVIOUS DWG No: New

DWG No:

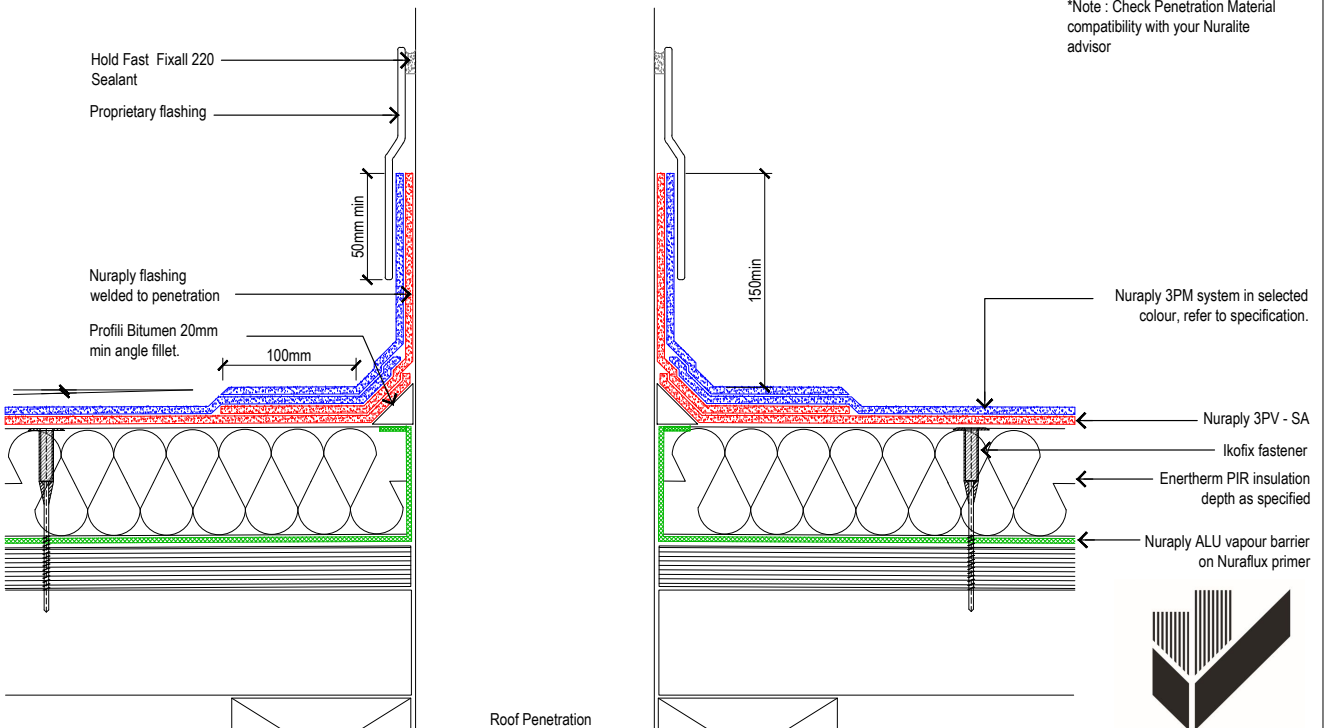
RPPW.D2

REVISION:

Rev E

DATE: MAY 16

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\*Note : Check Penetration Material compatibility with your Nuralite advisor



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PRODUCT:

**NURATHERM ON PLYWOOD**

DESCRIPTION:

WARM ROOF - ROOF PENETRATION WITH INTEGRAL FLASHING

SCALE:

NTS

PREVIOUS DWG No: New

DWG No:

RPPW.D1

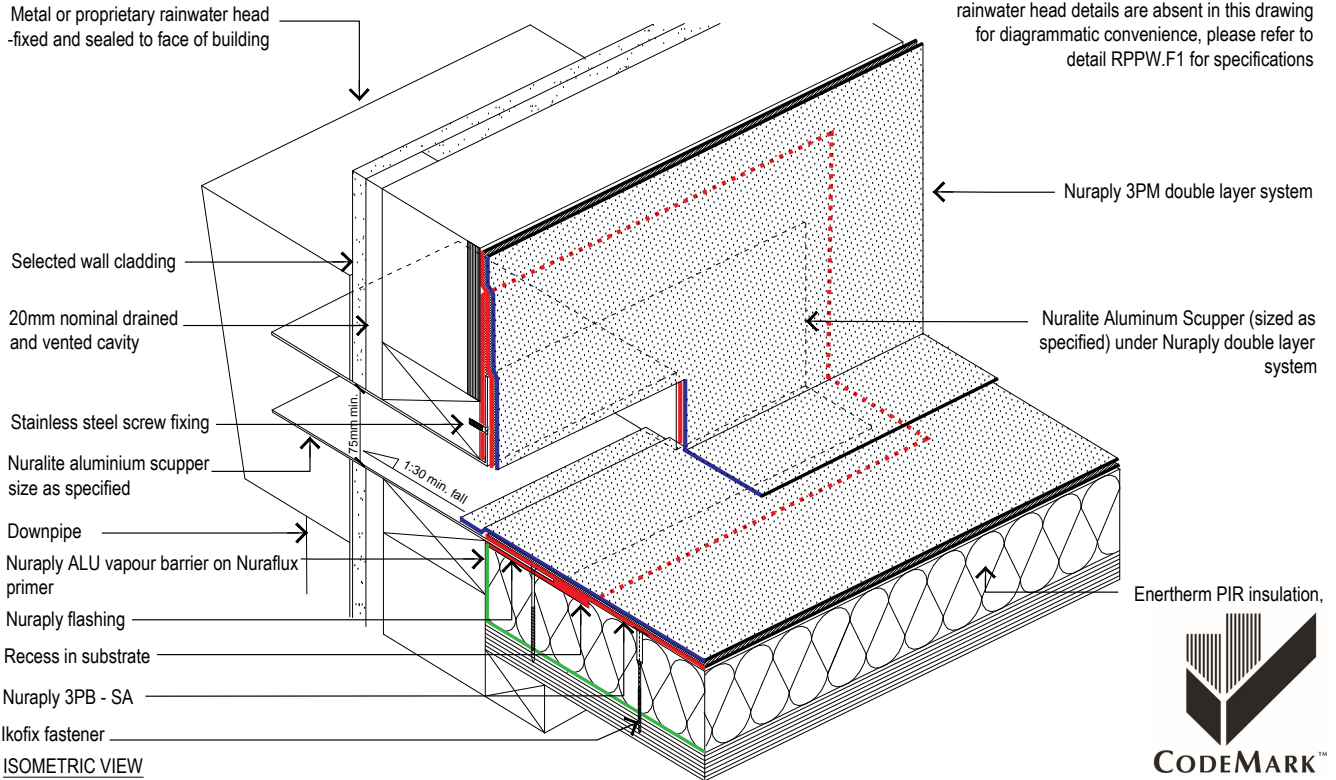
REVISION:

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DATE: MAY 16

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NOTE: The leaf guard, flashing tape and rainwater head details are absent in this drawing for diagrammatic convenience, please refer to detail RPPW.F1 for specifications

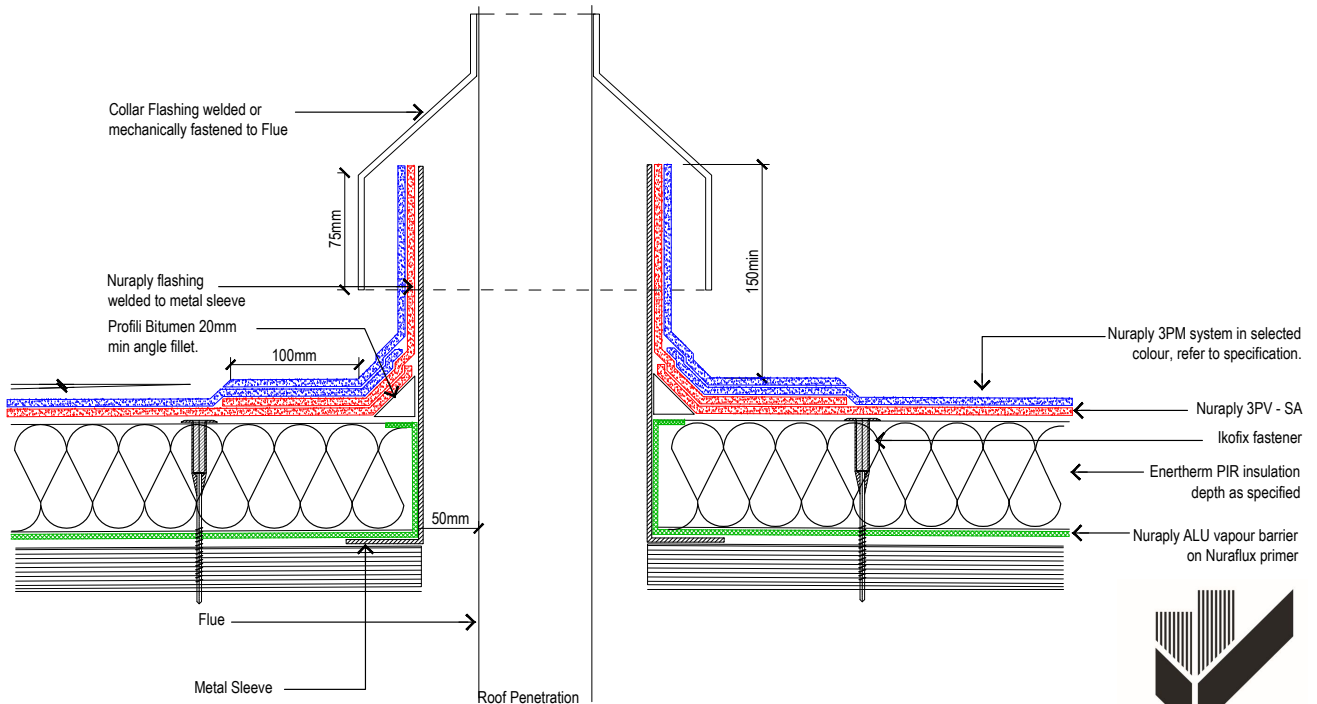


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PRODUCT:	<b>NURATHERM ON PLYWOOD</b>		
DESCRIPTION:	WARM ROOF - SCUPPER		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPW.F1 iso

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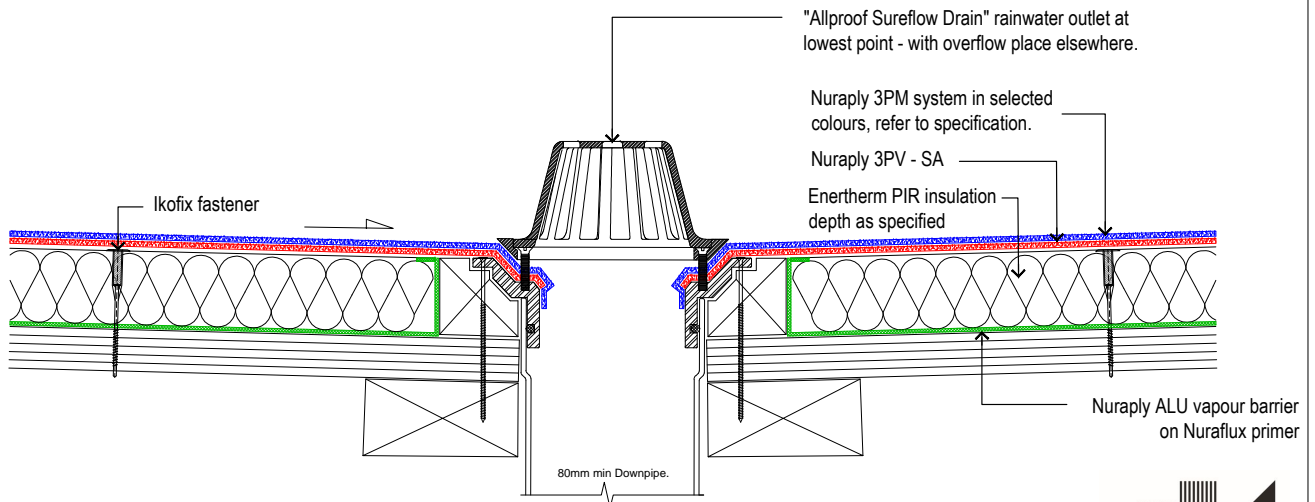
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PRODUCT:	<b>NURATHERM ON PLYWOOD</b>		
DESCRIPTION:	WARM ROOF - FLUE DETAIL/PIPE PENETRATION		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPW.D3



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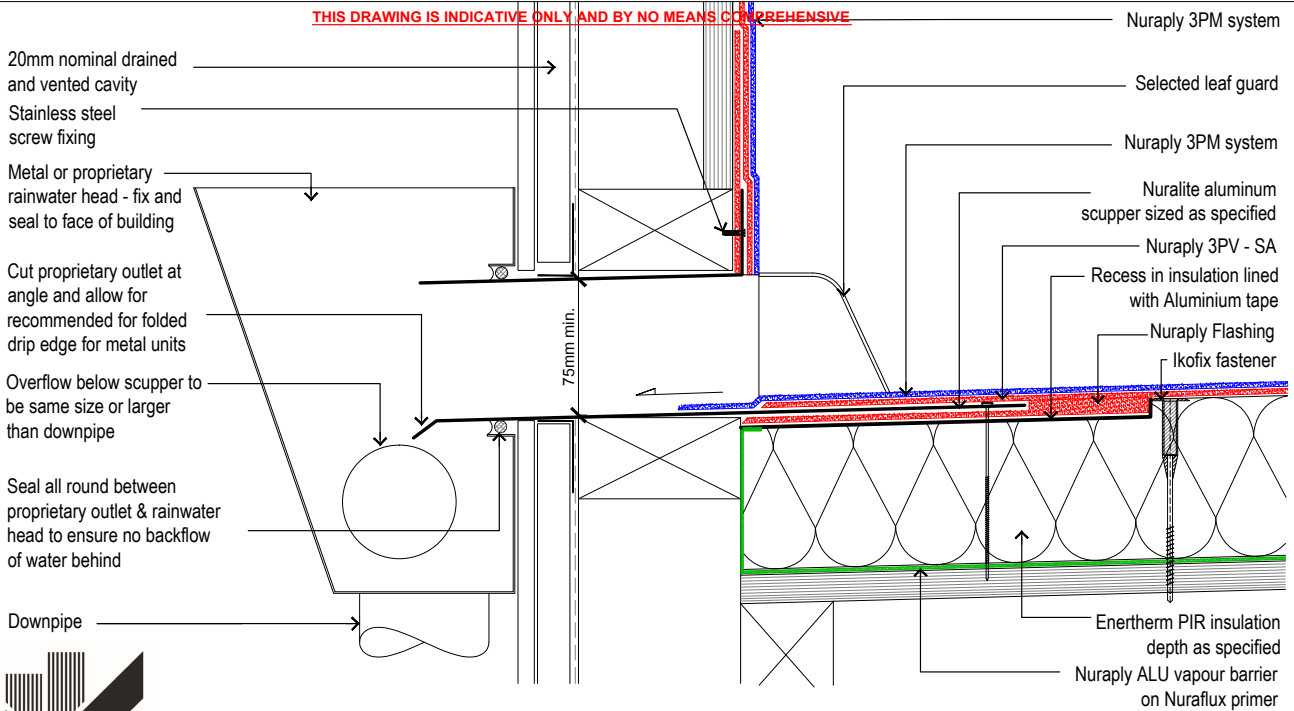


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PRODUCT: <b>NURATHERM ON PLYWOOD</b>			
DESCRIPTION: <b>WARM ROOF - RAINWATER OUTLET</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPW.G1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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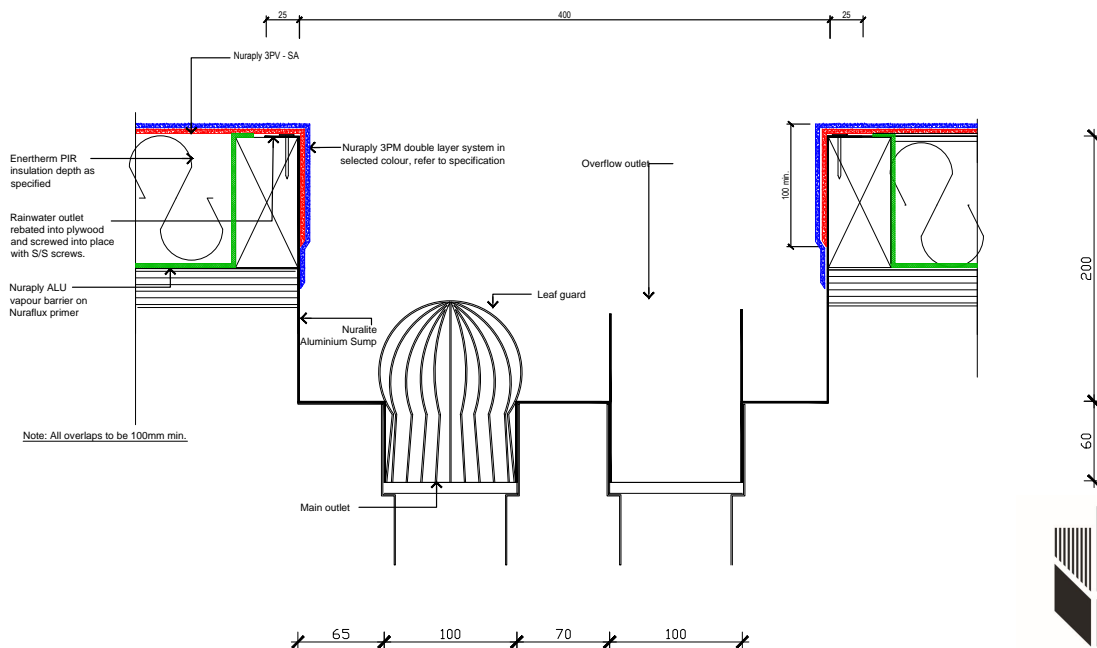


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PRODUCT: <b>NURATHERM ON PLYWOOD</b>			
DESCRIPTION: <b>WARM ROOF - SCUPPER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPW.F1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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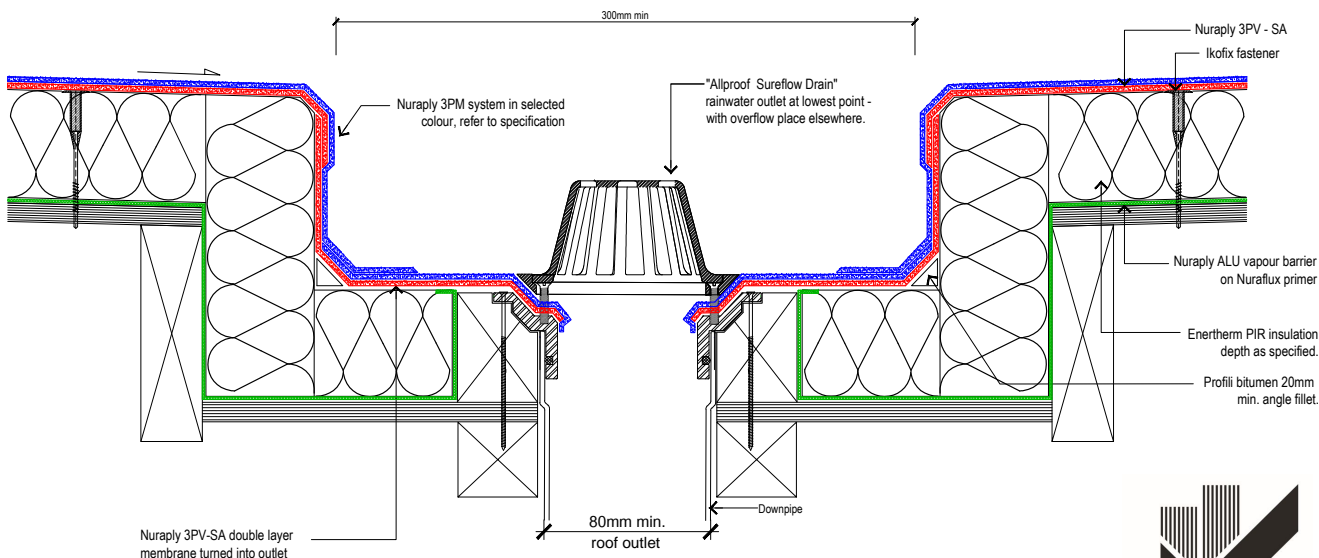


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PRODUCT: <b>NURATHERM ON PLYWOOD</b>			
DESCRIPTION: <b>SQUARE SUMP DETAIL</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPW.G5</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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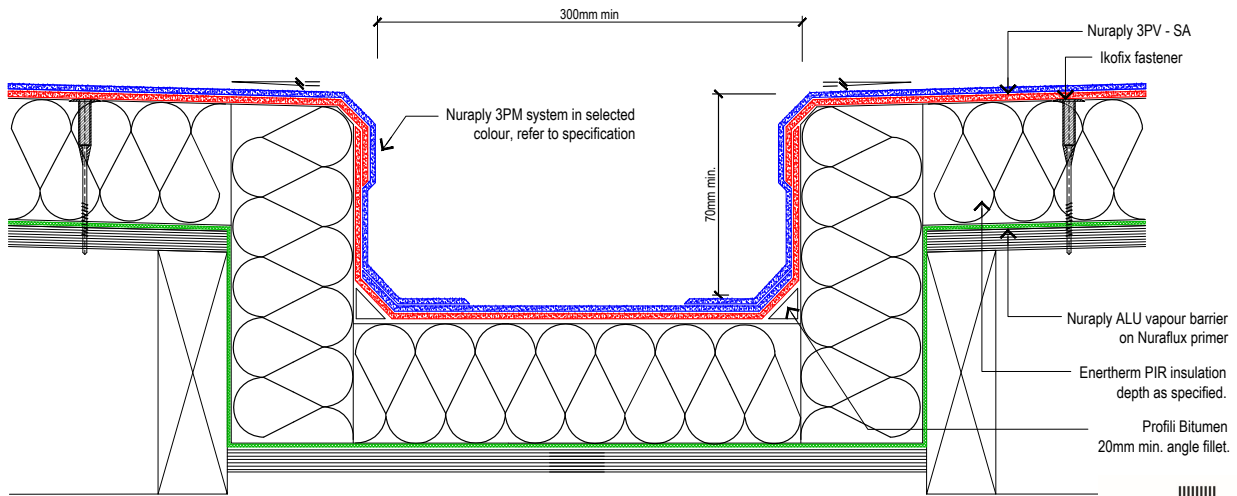


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PRODUCT: <b>NURATHERM ON PLYWOOD</b>			
DESCRIPTION: <b>WARM ROOF - RAINWATER OUTLET IN BOX GUTTER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPW.G3</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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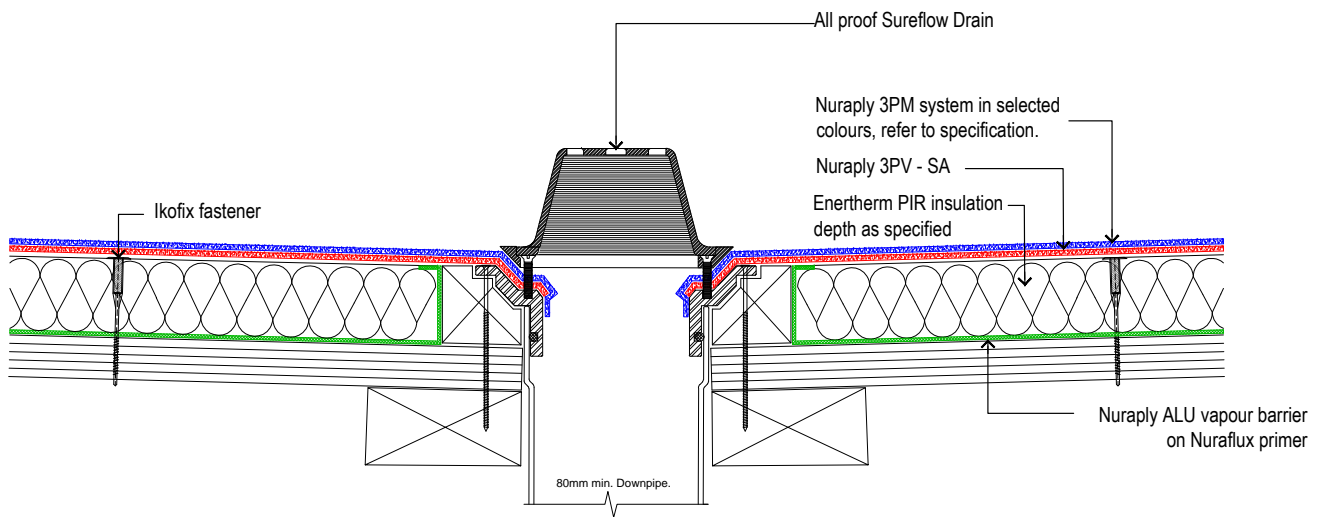


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PRODUCT: <b>NURATHERM ON PLYWOOD</b>			
DESCRIPTION: <b>WARM ROOF - INTERNAL BOX GUTTER DETAIL</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPW.H1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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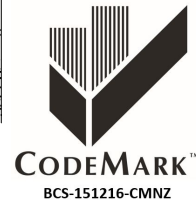
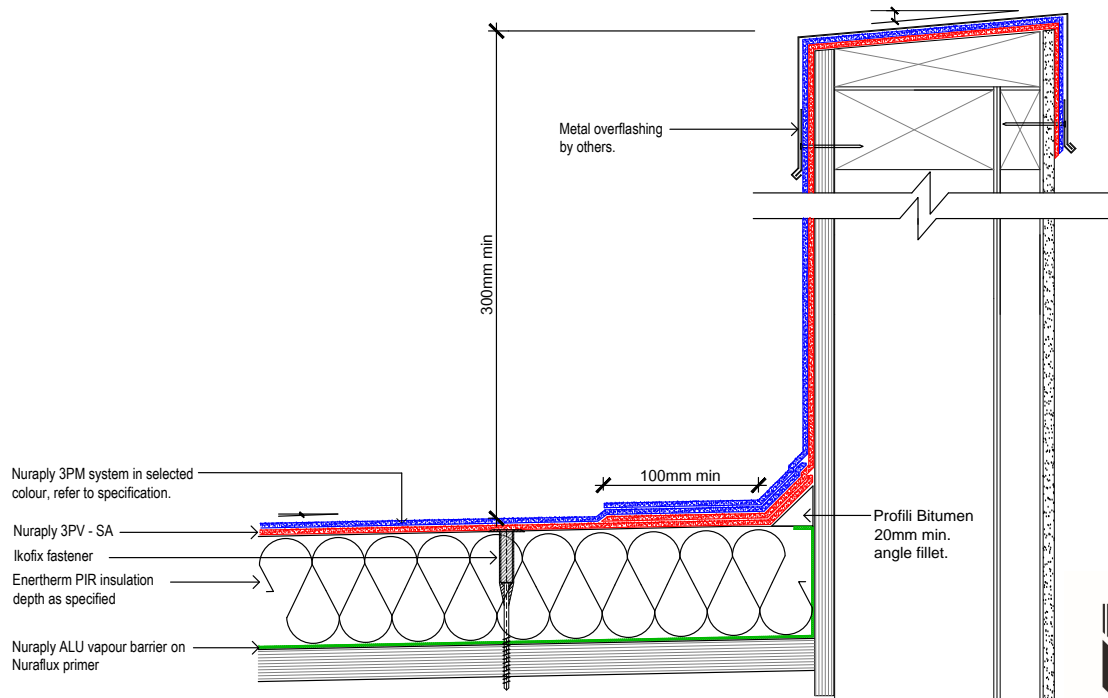


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PRODUCT: <b>NURATHERM ON PLYWOOD</b>			
DESCRIPTION: <b>WARM ROOF - OVERFLOW</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPW.G6</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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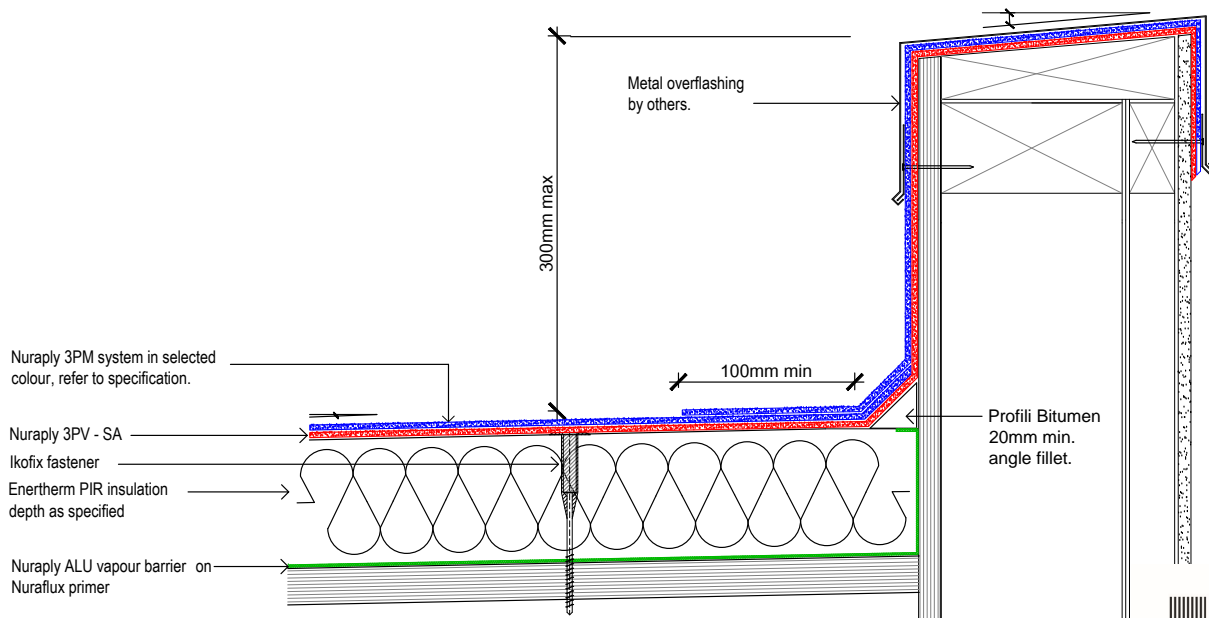


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PRODUCT:	<b>NURATHERM ON PLYWOOD</b>		
DESCRIPTION:	WARM ROOF - HIGH PARAPET		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPW.H5

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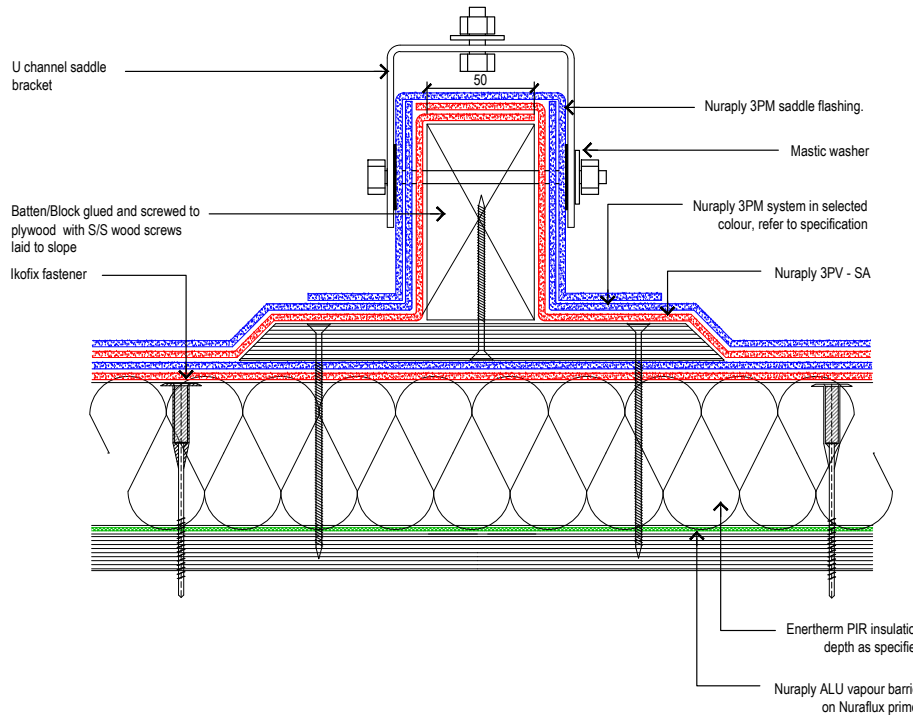


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PRODUCT:	<b>NURATHERM ON PLYWOOD</b>		
DESCRIPTION:	WARM ROOF - LOW PARAPET		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RPPW.H6

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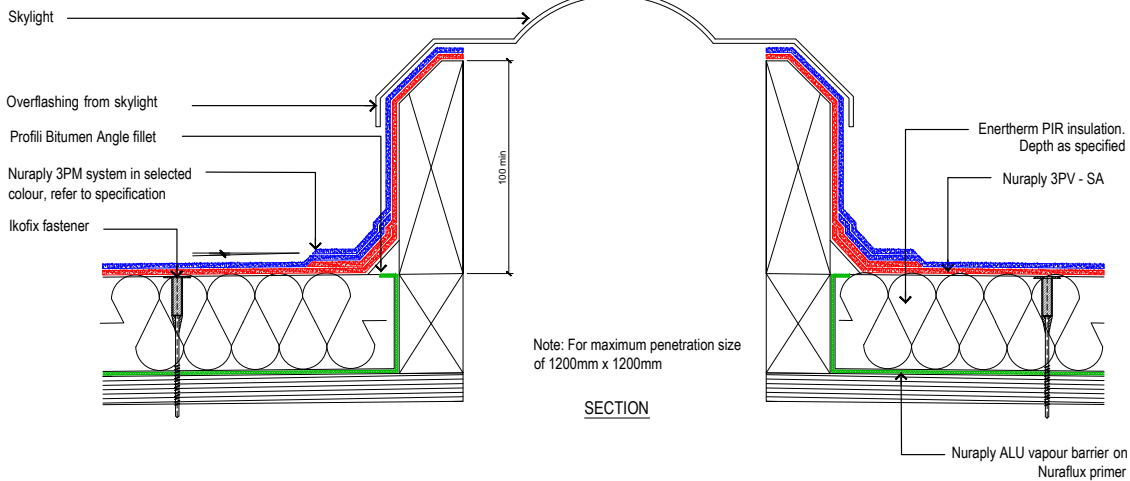


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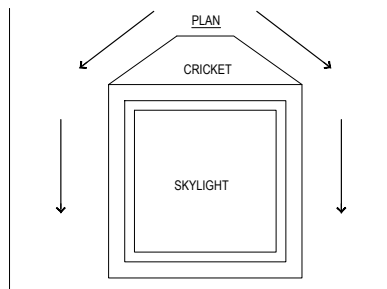
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PRODUCT: <b>NURATHERM ON PLYWOOD</b>			
DESCRIPTION: <b>WARM ROOF - UNIVERSAL MOUNTING BRACKET</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPW.K1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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SECTION

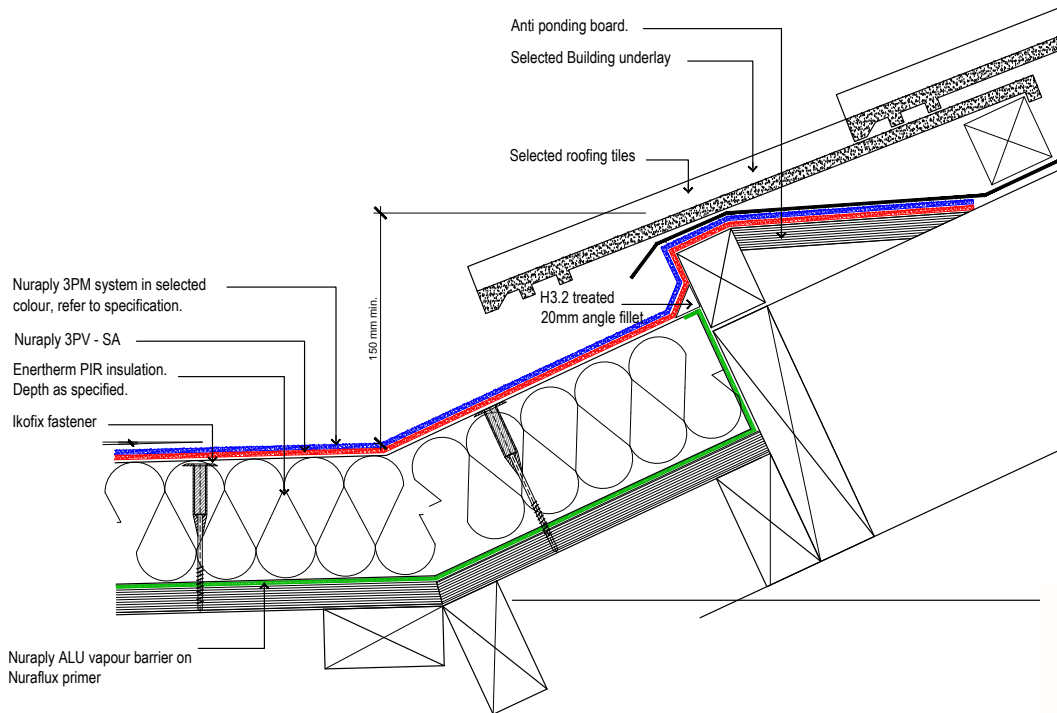


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PRODUCT: <b>NURATHERM ON PLYWOOD</b>			
DESCRIPTION: <b>WARM ROOF - SKYLIGHT</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RPPW.J1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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PRODUCT:

**NURATHERM ON PLYWOOD**

DESCRIPTION:

WARM ROOF - TILE ROOF ONTO MEMBRANE

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

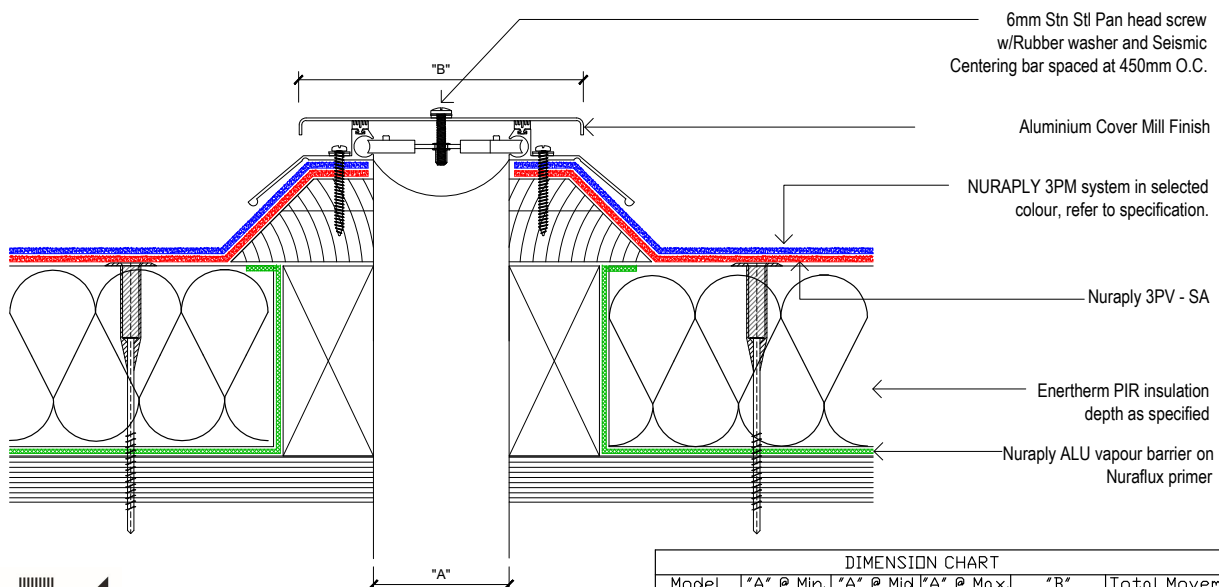
DATE:

MAY 16

DWG No:

RPPW.01

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DIMENSION CHART					
Model	"A" @ Min.	"A" @ Mid	"A" @ Max.	"B"	Total Movement
RFC-200	6	50	75	160	75
RFC-400	6	100	150	110	150
RFC-600	6	150	230	290	230
RFC-800	6	205	305	365	305
RFC-1000	6	255	380	430	380
RFC-1200	6	305	460	500	460
RFC-1800	6	460	685	730	685
RFC-2400	6	610	915	960	915



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PRODUCT:

**NURATHERM ON PLYWOOD**

DESCRIPTION:

WARM ROOF - MAJOR EXPANSION JOINT/WABO ROOF COVER

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

DATE:

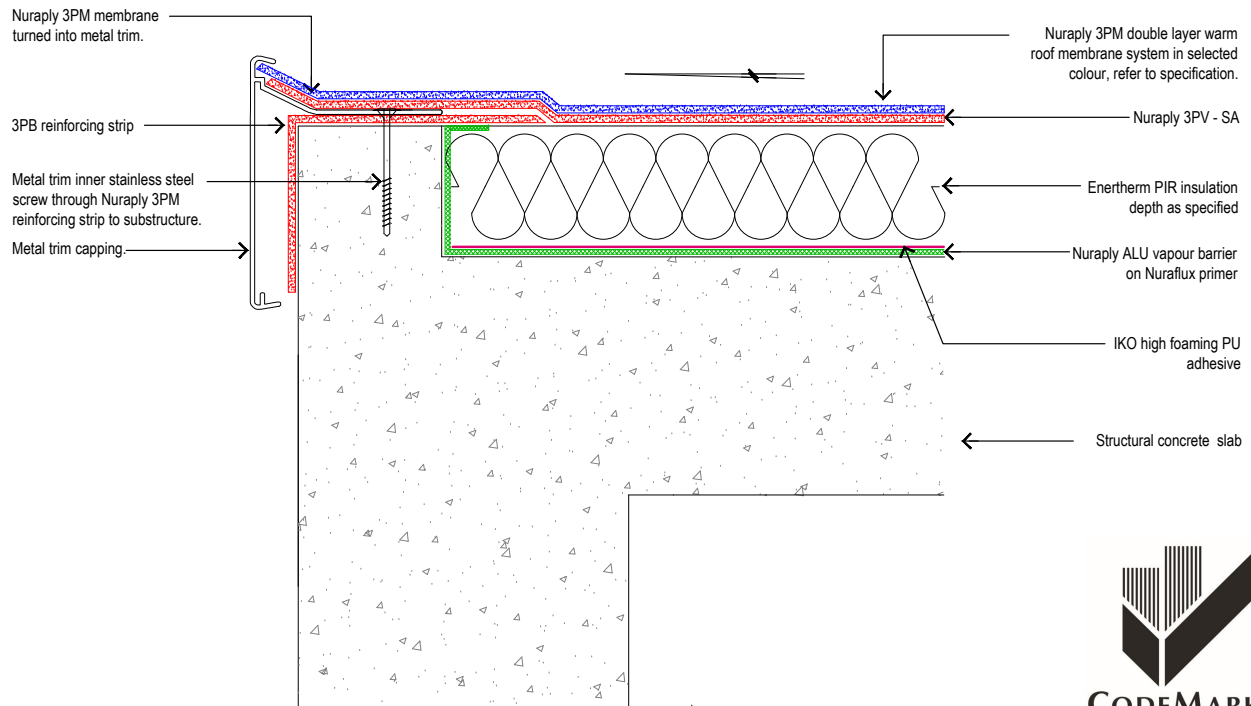
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DWG No:

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PRODUCT:

**NURATHERM ON CONCRETE**

DESCRIPTION:

WARM ROOF - NURATRIM NON DRAINING EDGE DETAIL

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

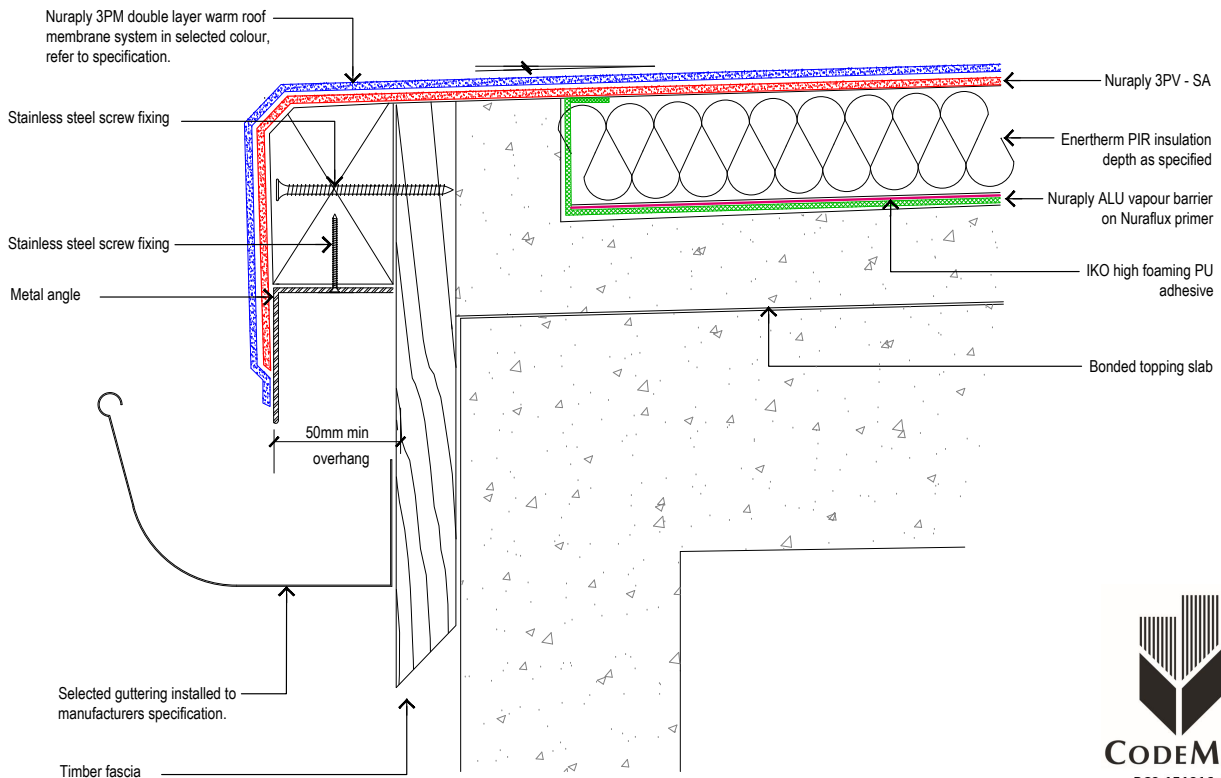
DATE:

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DWG No:

RCPW.B3

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PRODUCT:

**NURATHERM ON CONCRETE**

DESCRIPTION:

WARM ROOF - METAL ANGLE EDGE

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

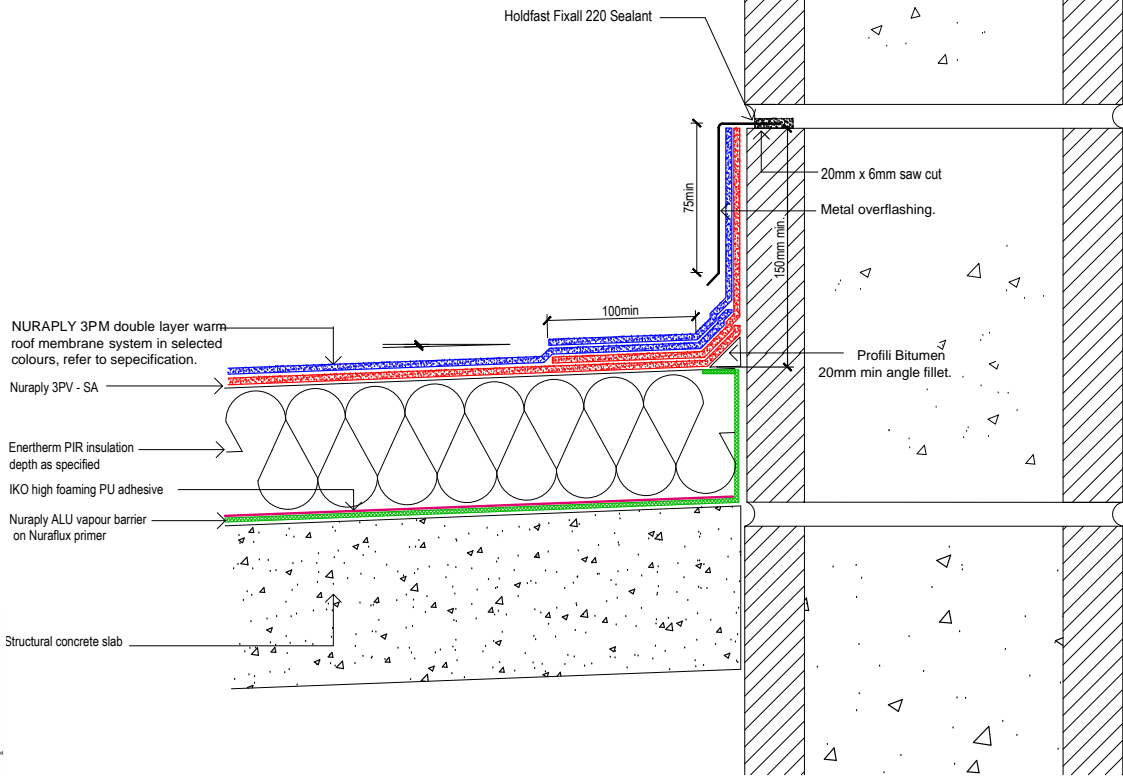
DATE:

MAY 16

DWG No:

RCPW.A2

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PRODUCT:

**NURATHERM ON CONCRETE**

DESCRIPTION:

WARM ROOF - NURAPLY 3P UPSTAND CHASE DETAIL

SCALE:

NTS

PREVIOUS DWG No: New

DWG No:

RCPW.C2

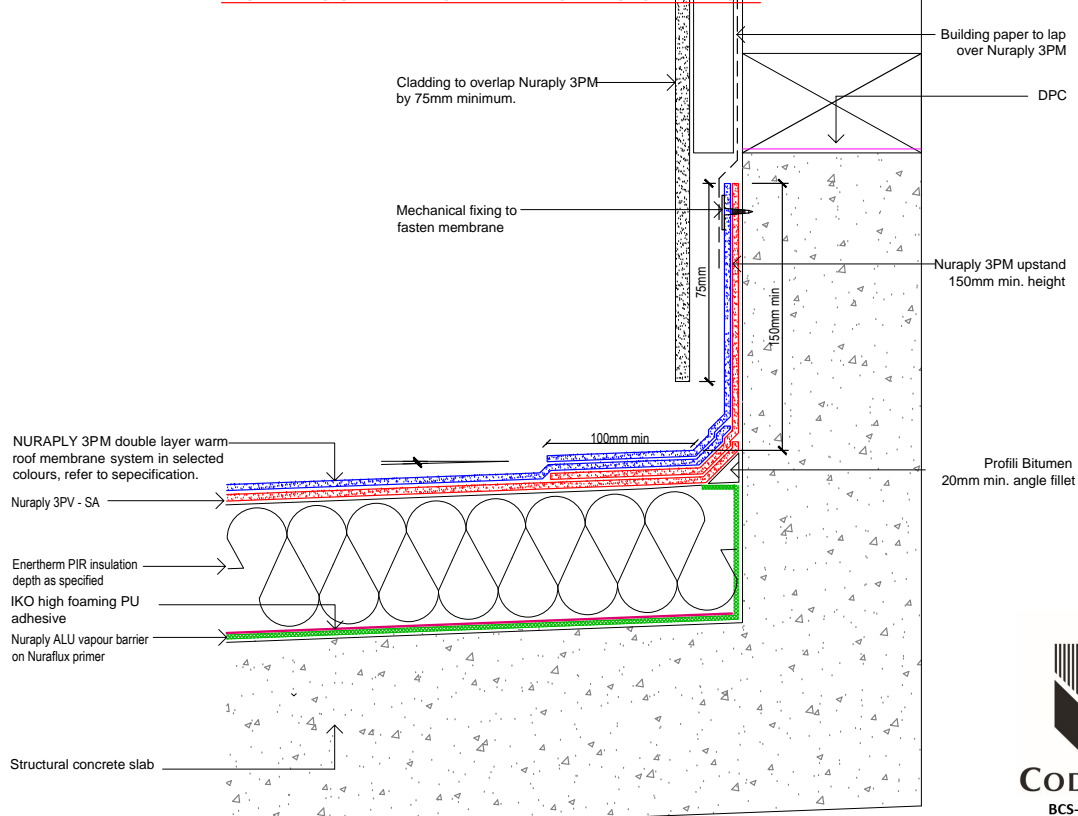
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PRODUCT:

**NURATHERM ON CONCRETE**

DESCRIPTION:

WARM ROOF - NURAPLY 3P UPSTAND BEHIND CLADDING DETAIL

SCALE:

NTS

PREVIOUS DWG No: New

DWG No:

RCPW.C1

REVISION:

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DATE:

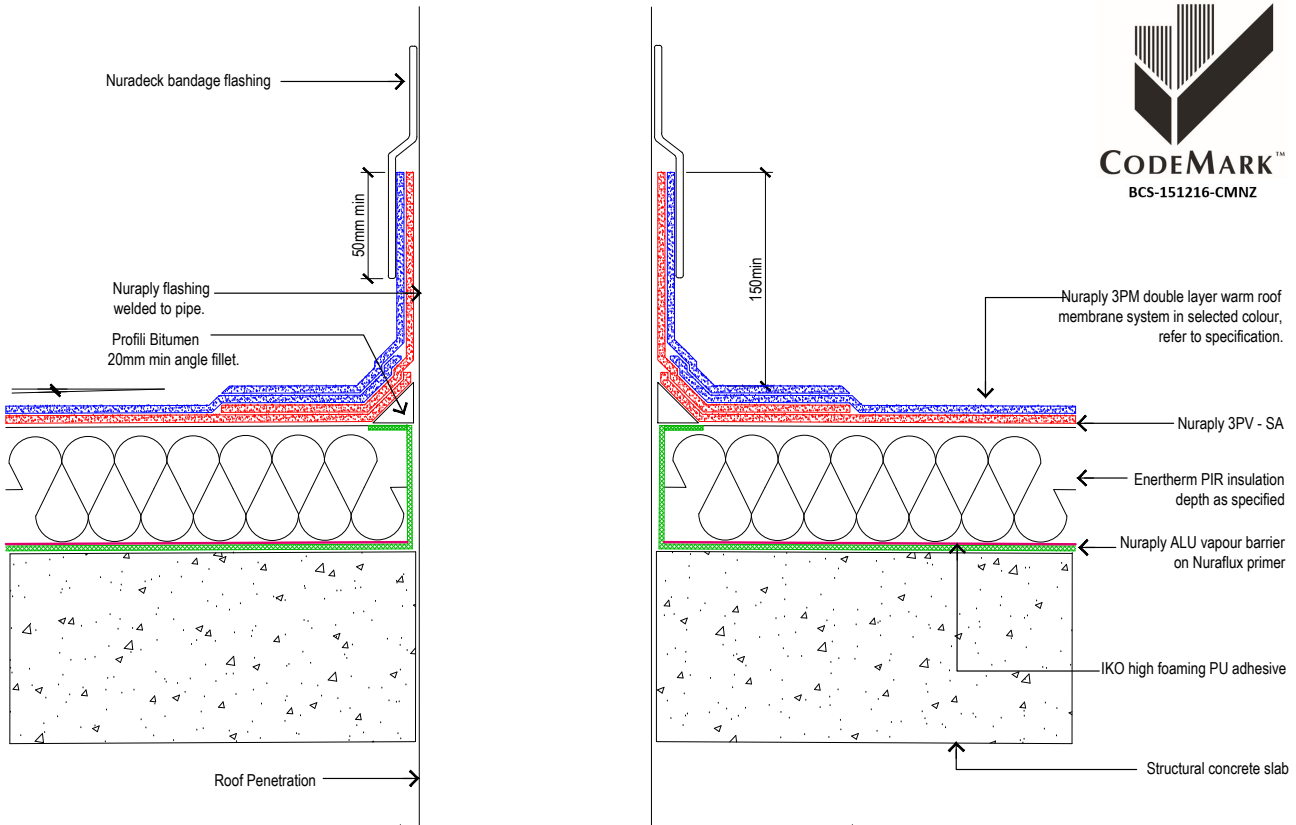
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PRODUCT:

**NURATHERM ON CONCRETE**

DESCRIPTION:

WARM ROOF - ROOF PENETRATION WITH INTEGRAL FLASHING

SCALE:

NTS

PREVIOUS DWG No: New

DWG No:

RCPW.D2

REVISION:

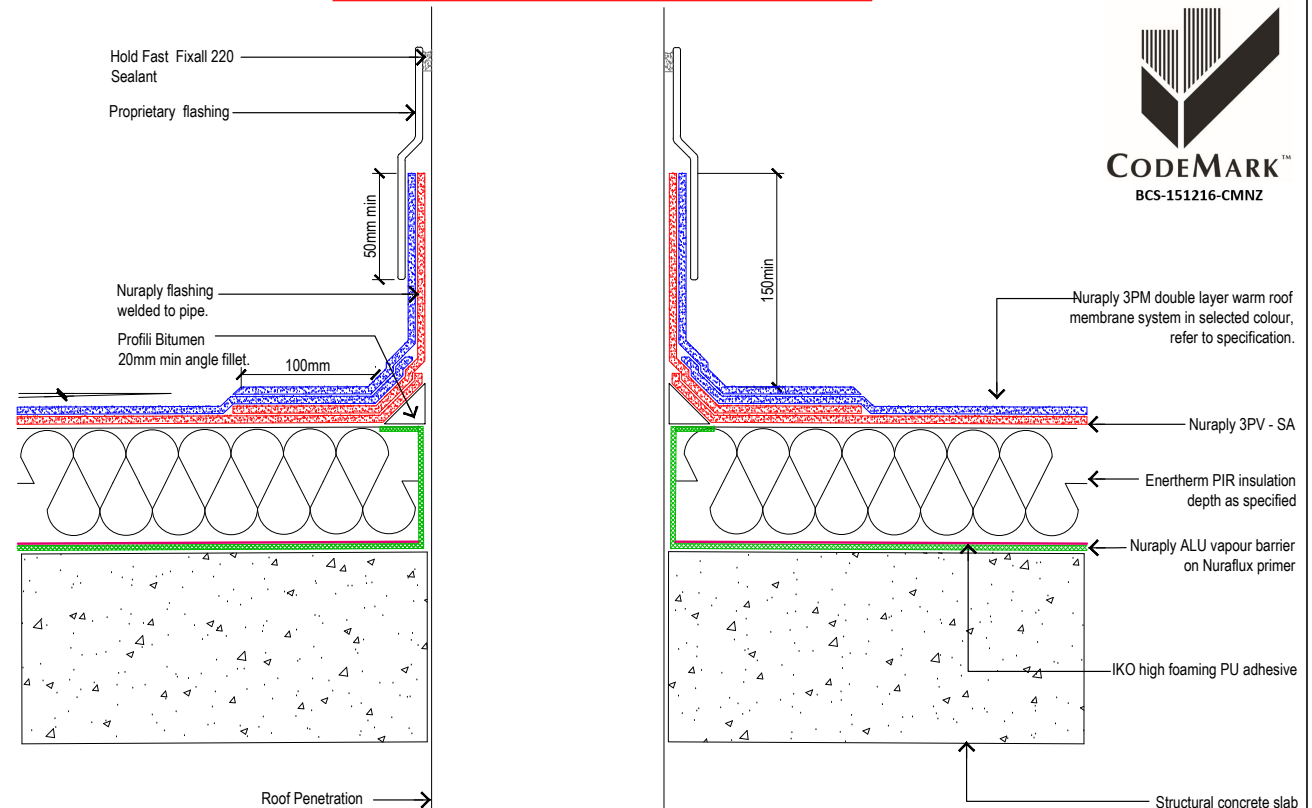
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PRODUCT:

**NURATHERM ON CONCRETE**

DESCRIPTION:

WARM ROOF - ROOF PENETRATION WITH INTEGRAL FLASHING

SCALE:

NTS

PREVIOUS DWG No: New

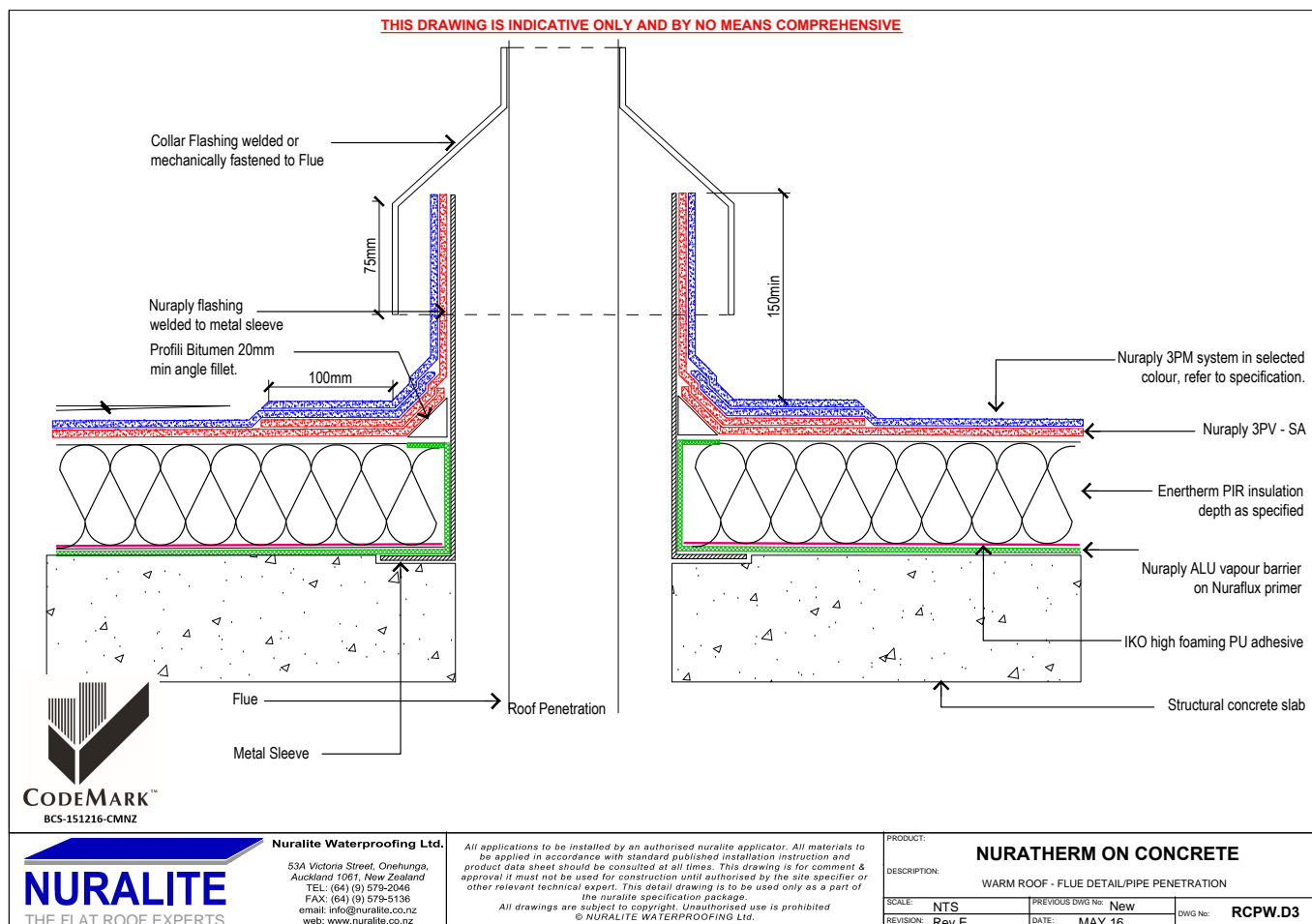
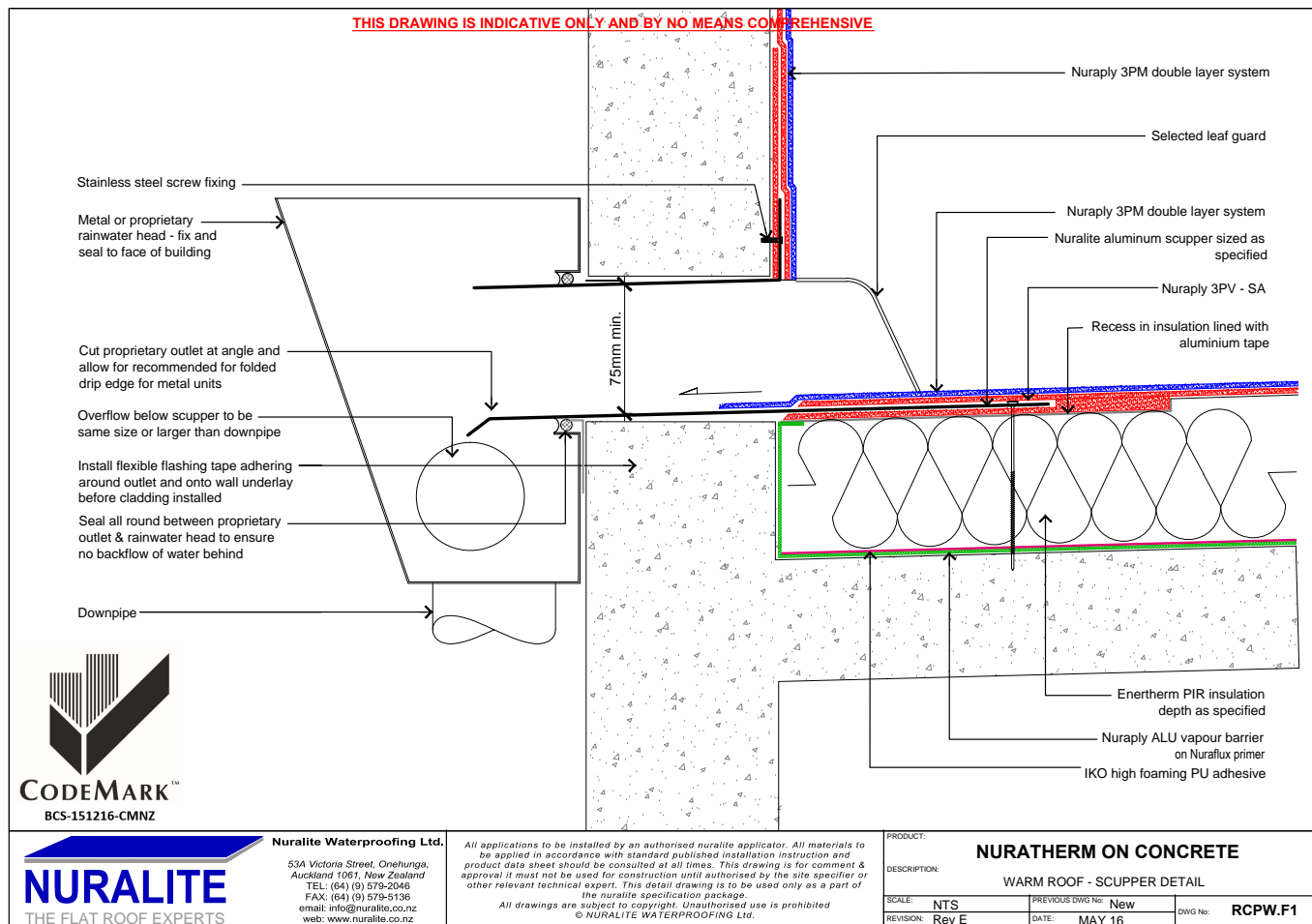
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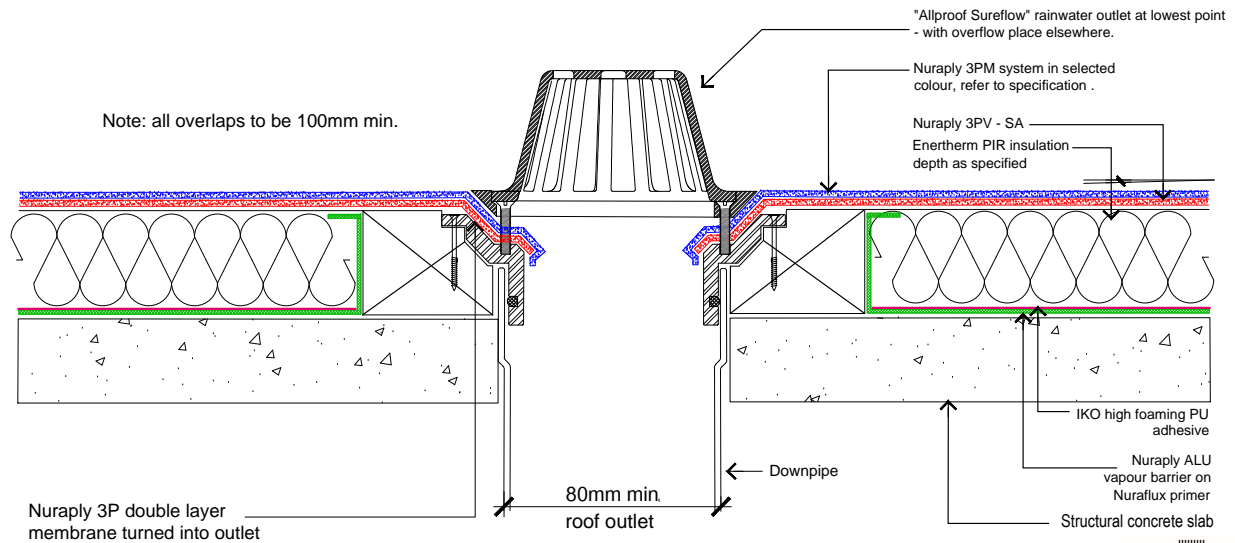
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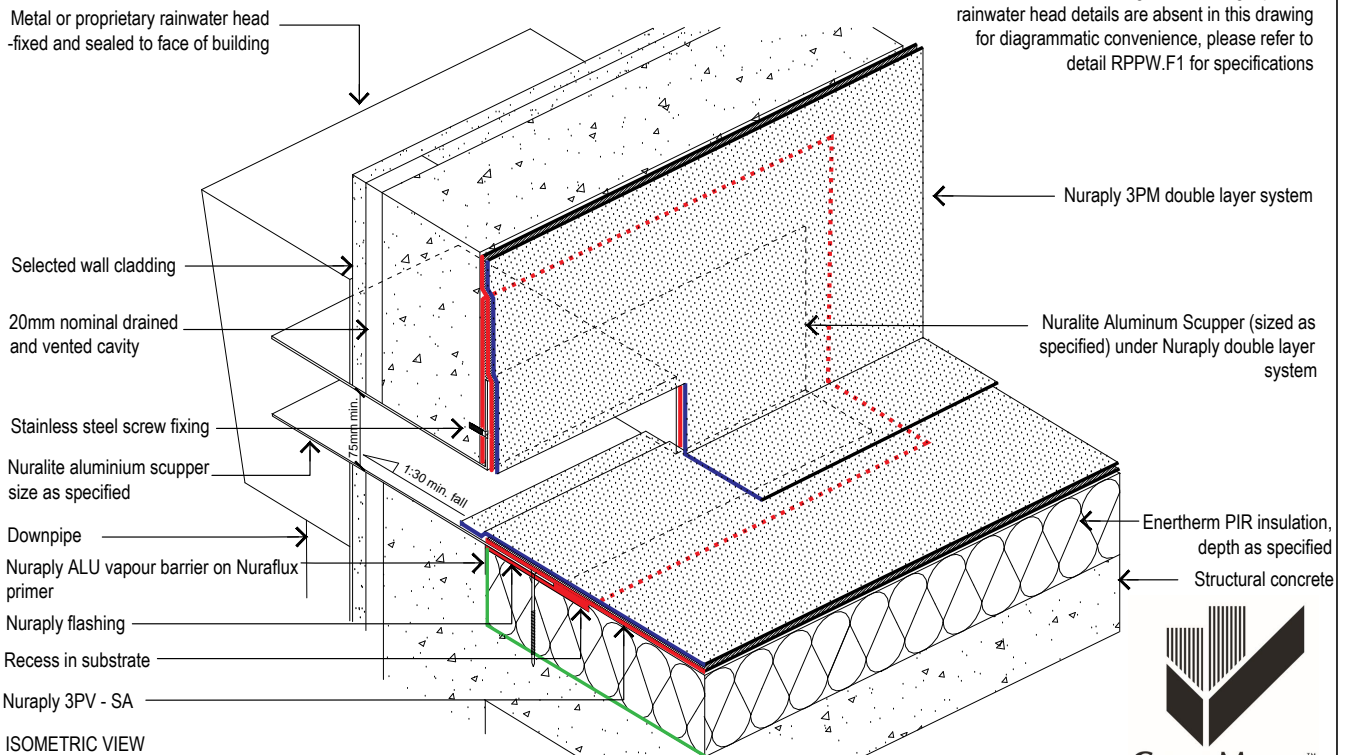
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PRODUCT: <b>NURATHERM ON CONCRETE</b>			
DESCRIPTION: <b>WARM ROOF - LARGE ALLPROOF RAINWATER OUTLET</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RCPW.G1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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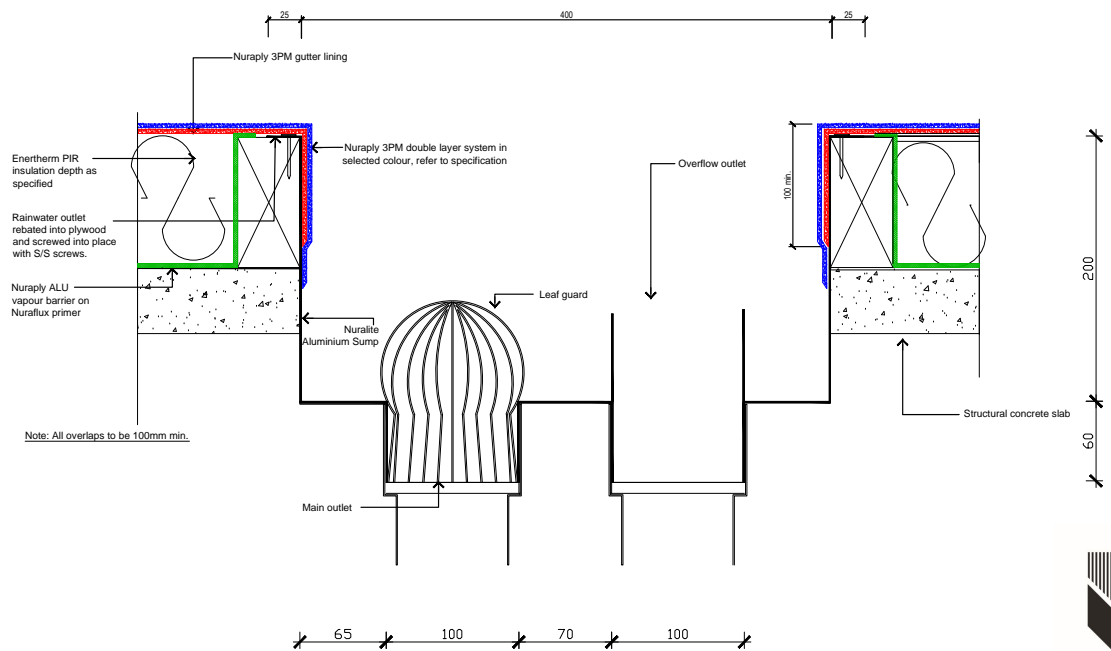
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PRODUCT: <b>NURATHERM ON PLYWOOD</b>			
DESCRIPTION: <b>WARM ROOF - SCUPPER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>RCPW.F1 iso</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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PRODUCT:

**NURATHERM ON CONCRETE**

DESCRIPTION:

**SQUARE SUMP DETAIL**

SCALE: NTS

REVISION: Rev E

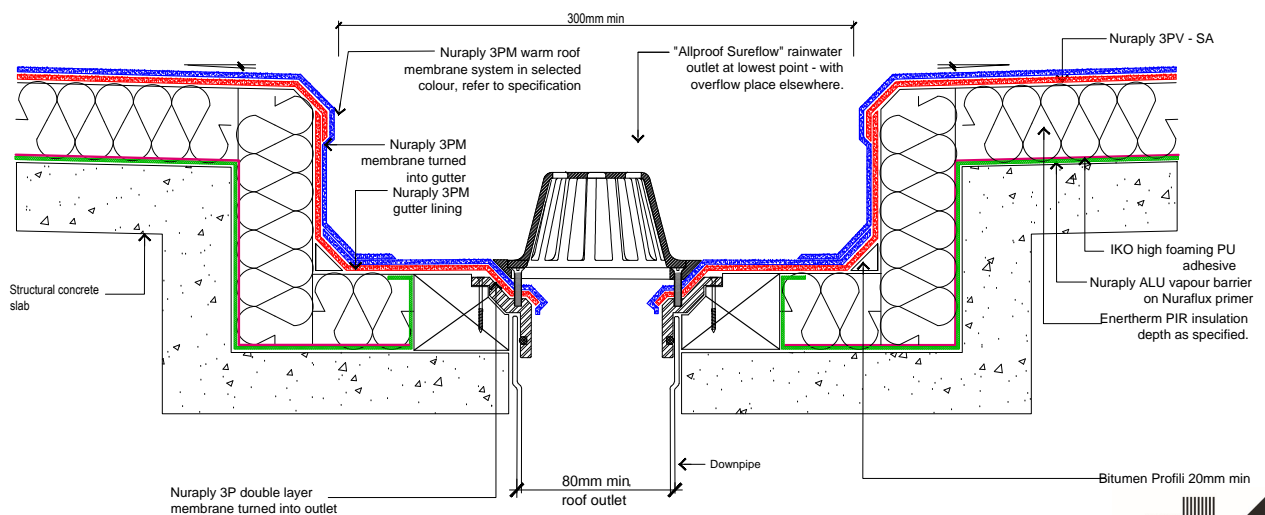
PREVIOUS DWG No: New

DATE: MAY 16

DWG No:

**RCPW.G5**

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PRODUCT:

**NURATHERM ON CONCRETE SLAB**

DESCRIPTION:

**WARM ROOF - RAINWATER OUTLET IN BOX GUTTER DETAIL**

SCALE: NTS

REVISION: Rev E

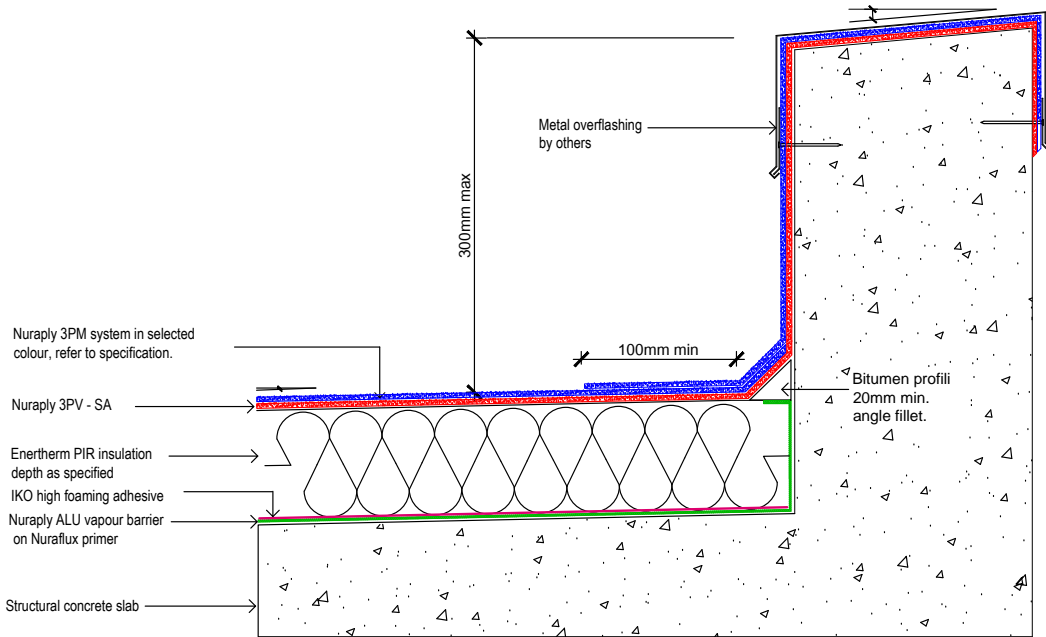
PREVIOUS DWG No: New

DATE: MAY 16

DWG No:

**RCPW.G3**

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PRODUCT:

**NURATHERM ON CONCRETE**

WARM ROOF - SHORT PARAPET

DESCRIPTION:

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

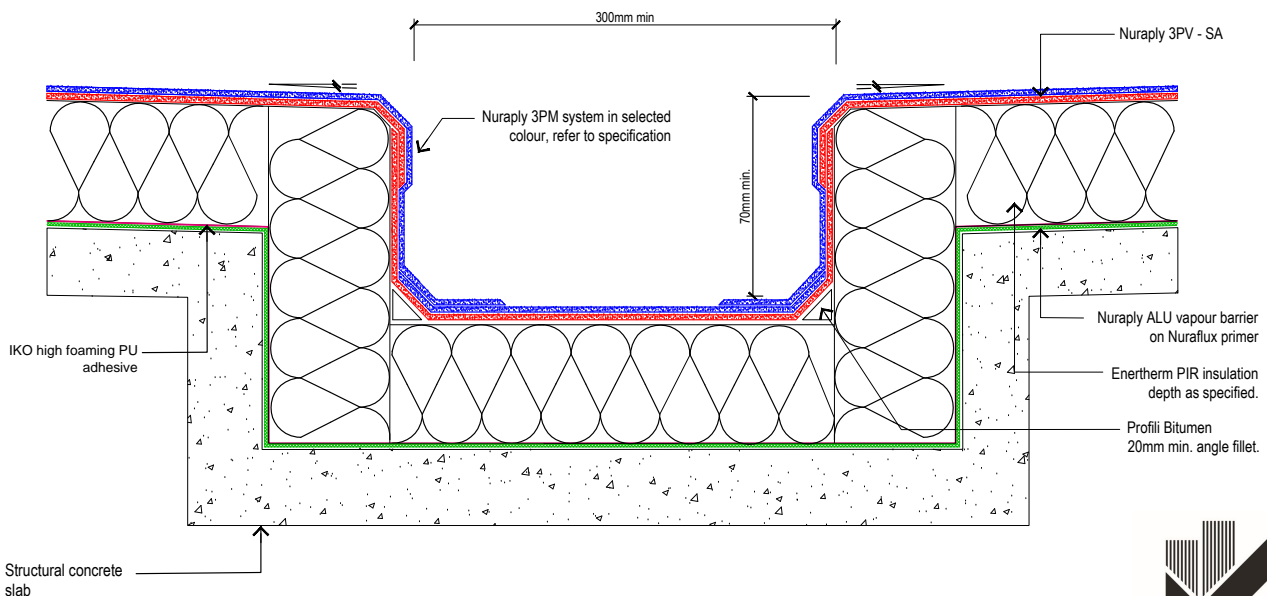
DATE:

MAY 16

DWG No:

RCPW.H5

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PRODUCT:

**NURATHERM ON CONCRETE**

DESCRIPTION:

WARM ROOF - INTERNAL BOX GUTTER DETAIL

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

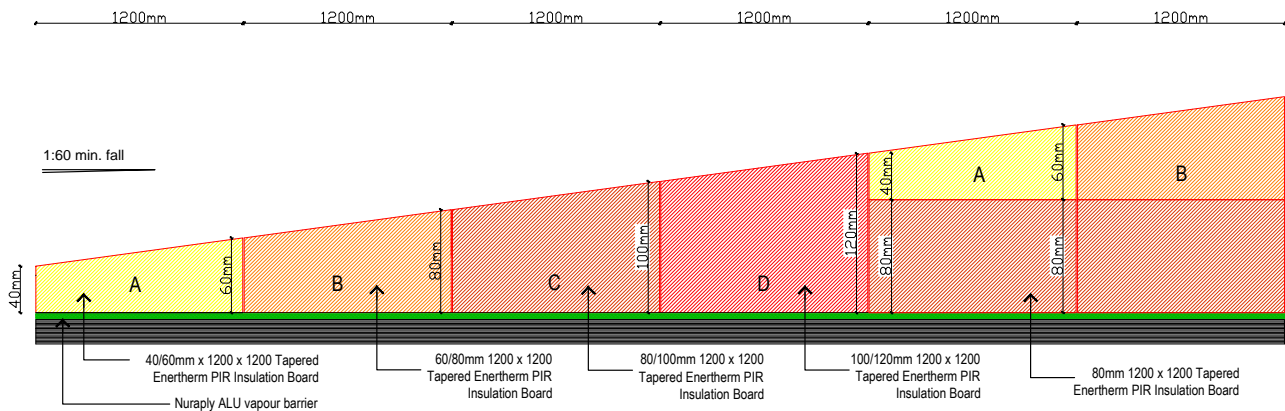
DATE:

MAY 16

DWG No:

RCPW.H1

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PRODUCT:	<b>1:60 SLOPING BOARD DETAIL</b>		
DESCRIPTION:			
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev A	DATE:	JUNE 11
		DWG No:	-

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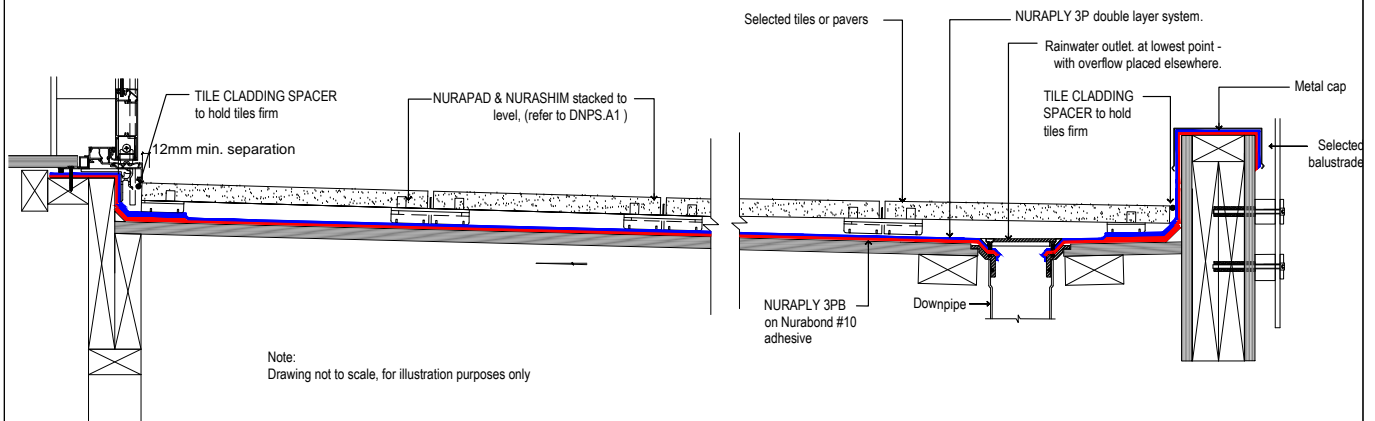
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PRODUCT:	<b>NURATHERM ON CONCRETE</b>		
DESCRIPTION:	<b>WARM ROOF - HIGH PARAPET DETAIL</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	RCPW.H6



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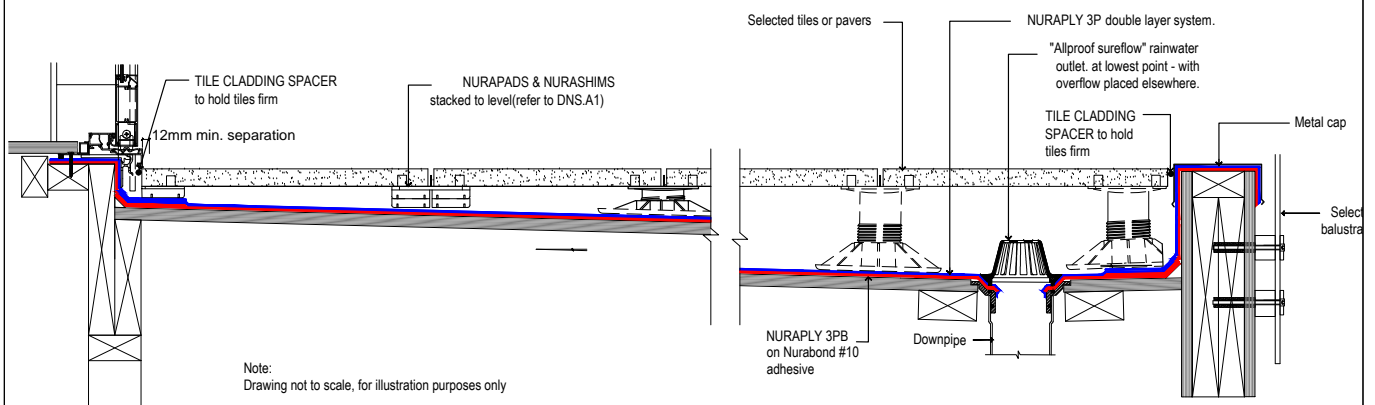
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PRODUCT: <b>NURAPAD &amp; NURASHIM</b>			
DESCRIPTION: <b>PAVERS - OVERVIEW</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DNS.B2</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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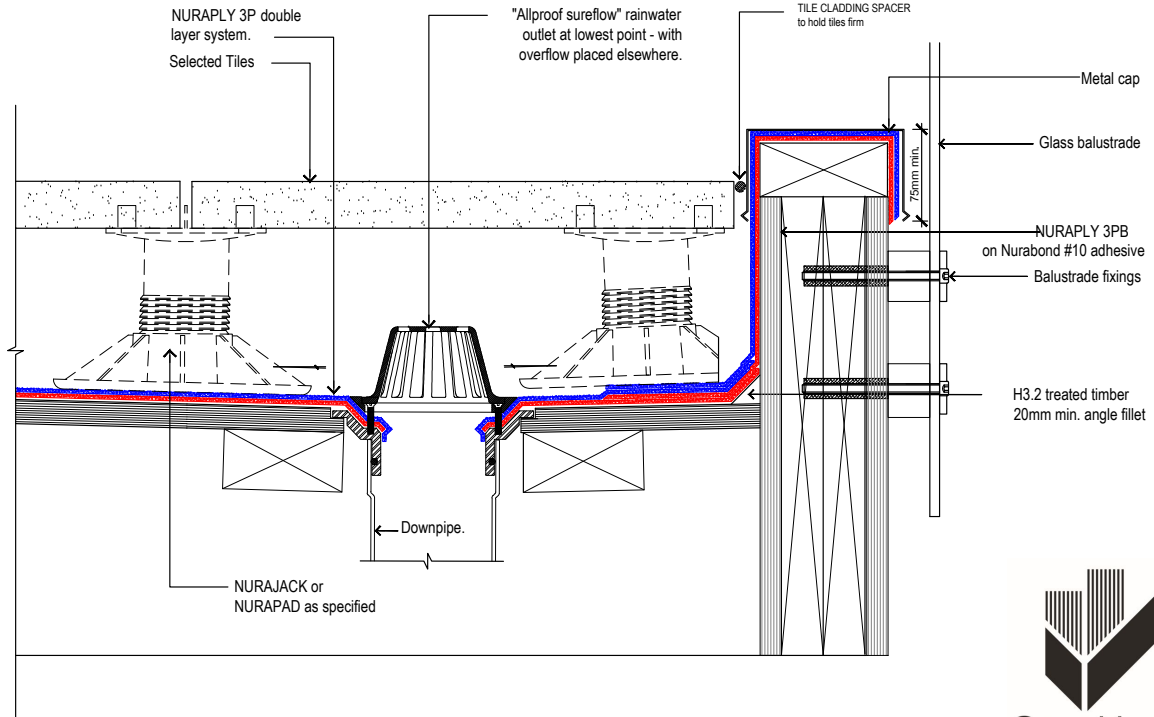
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PRODUCT: <b>NURAJACK/NURAPAD &amp; NURASHIM</b>			
DESCRIPTION: <b>PAVERS - OVERVIEW</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DNS.B1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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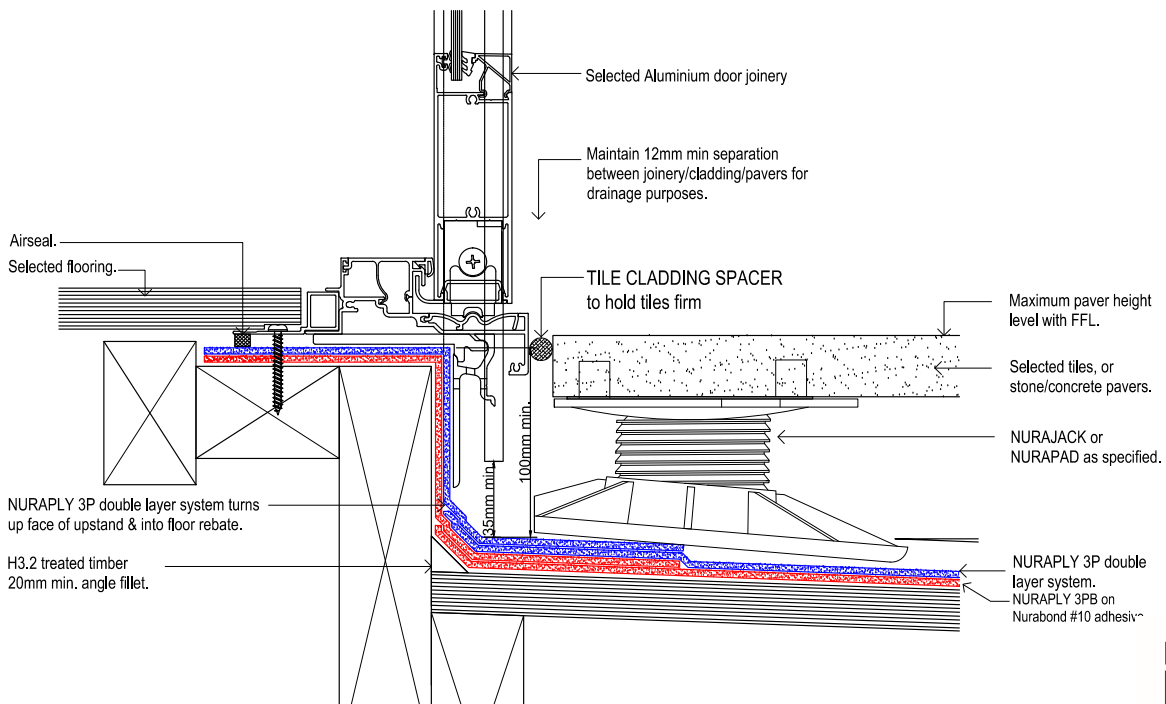


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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	PAVERS - FRAMELESS BALUSTRADE		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPP.B1

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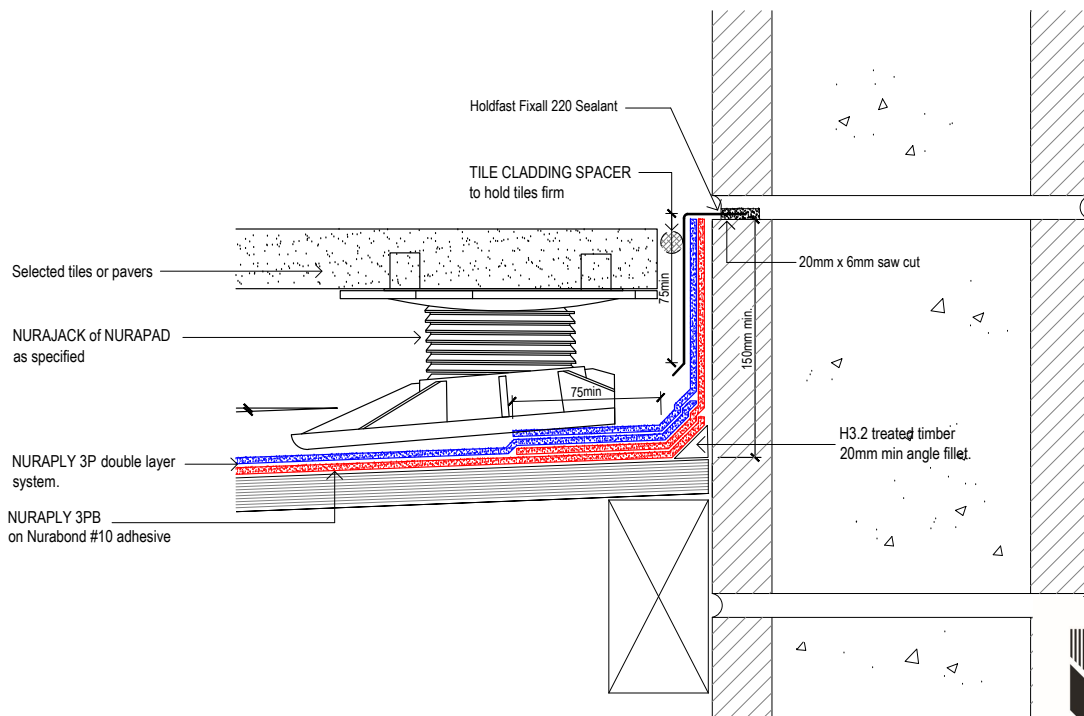
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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	PAVERS - ALUMINIUM DOOR DECK THRESHOLD		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPP.A1



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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

PAVERS - UPSTAND INTO CHASE

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

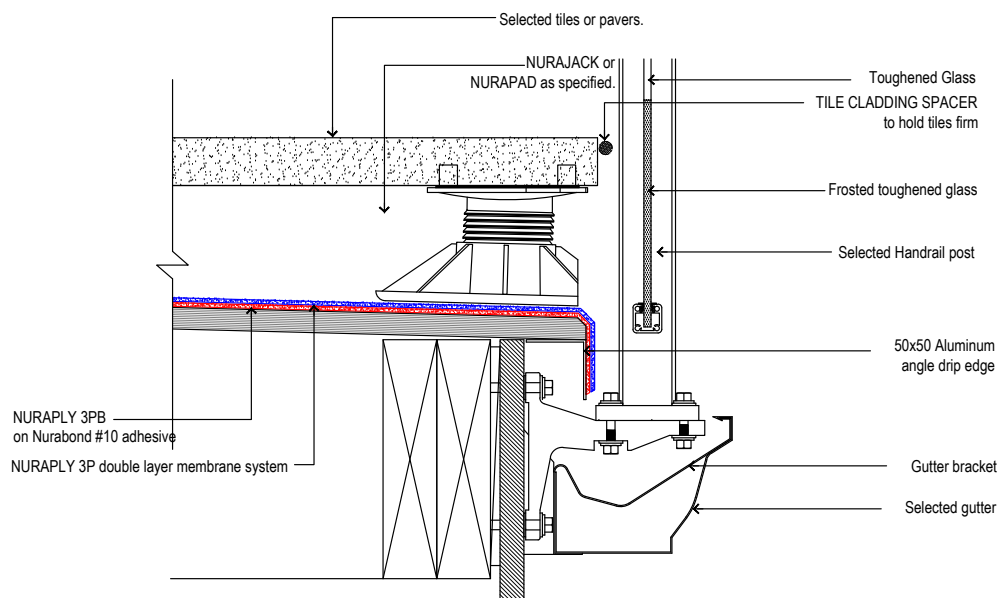
DATE:

MAY 16

DWG No:

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

PAVERS - BALUSTRADE

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

DATE:

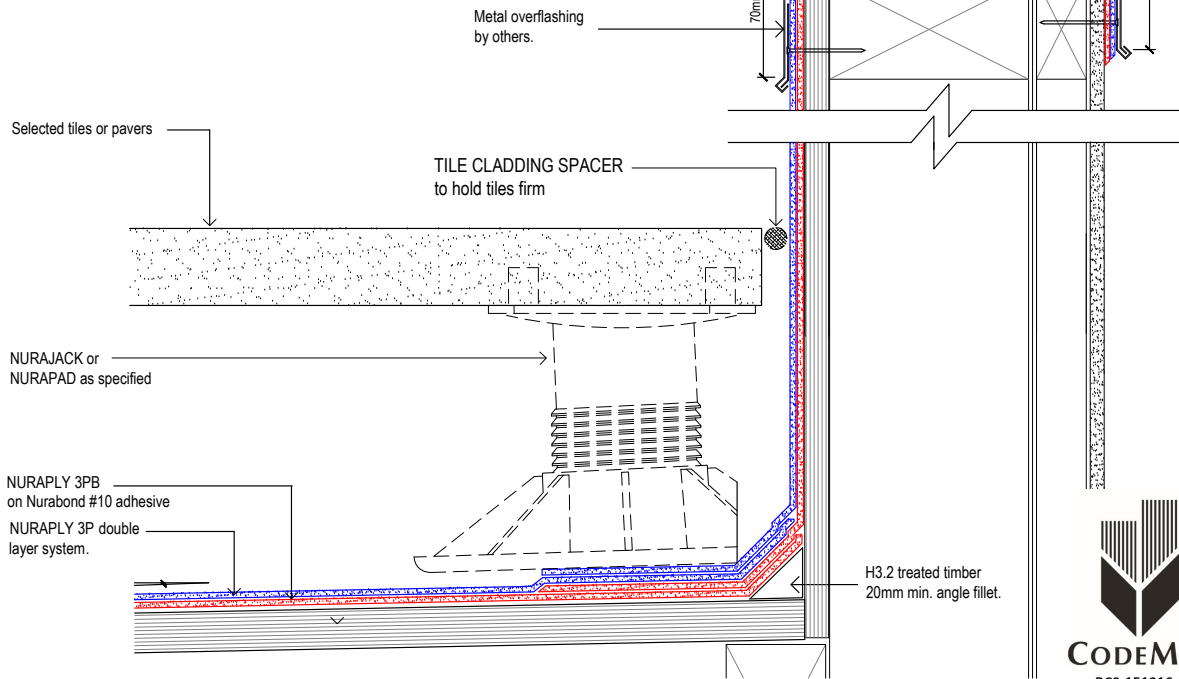
MAY 16

DWG No:

DPPP.B2

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Note:  
No min. parapet height required provided  
membrane fully encapsulates the parapet.

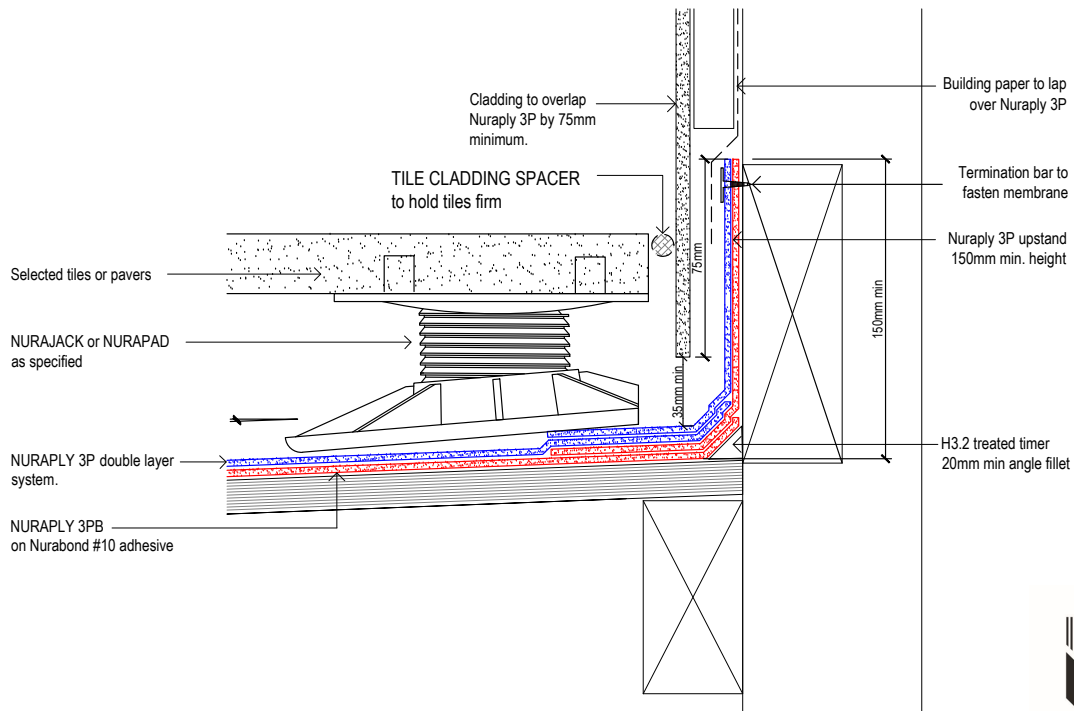


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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	<b>PAVERS - PARAPET</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPP.D1

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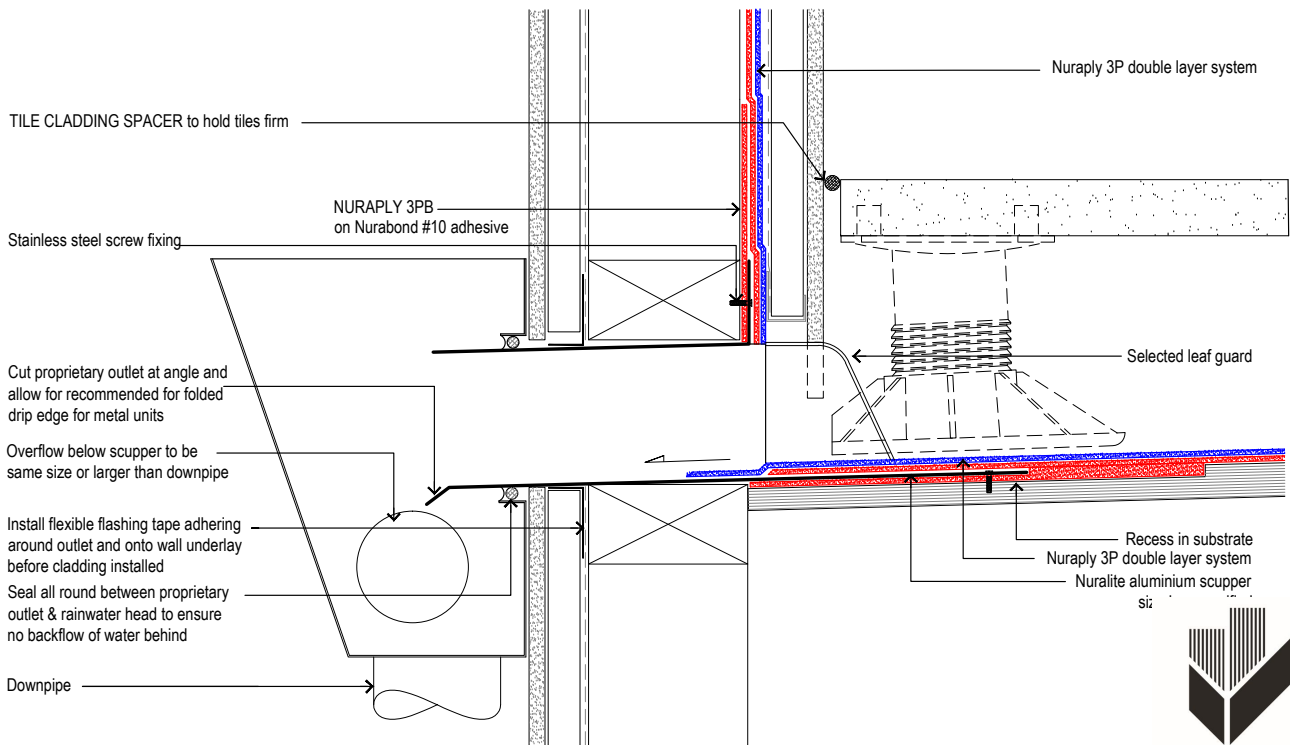


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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	<b>PAVERS - UPSTAND BEHIND CLADDING</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPP.C2

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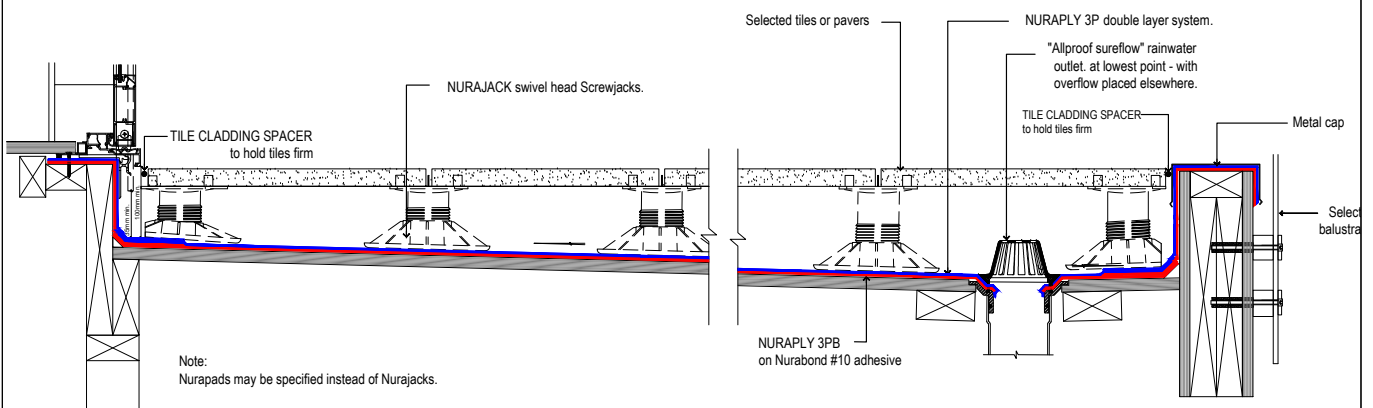


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PRODUCT: <b>NURAPLY 3P &amp; NURAJACK</b>			
DESCRIPTION: <b>PAVERS - SCUPPER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DPPP.F1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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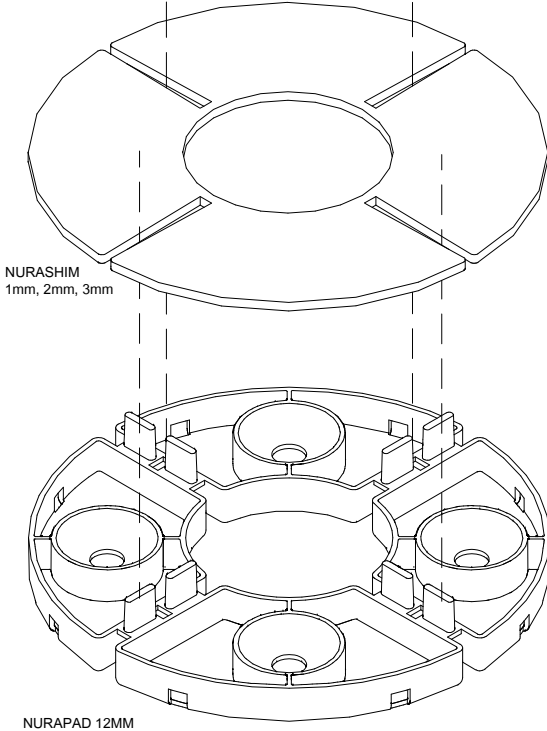
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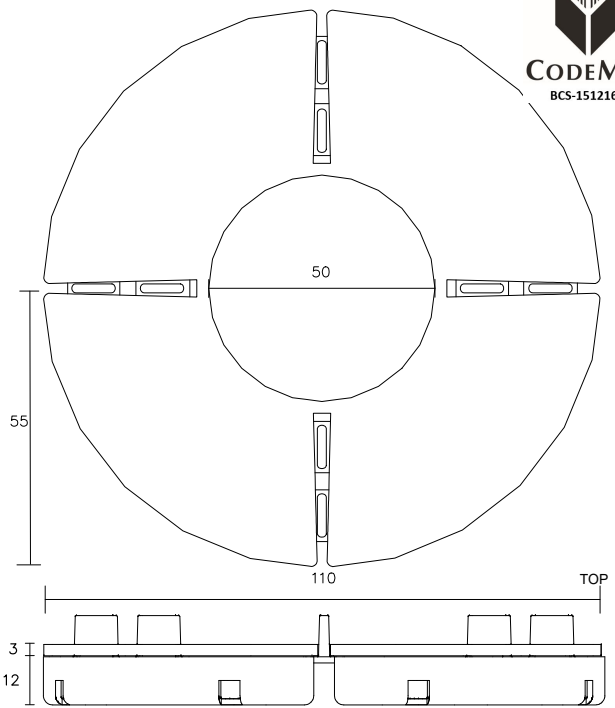
PRODUCT: <b>NURAPLY 3P &amp; NURAJACK</b>			
DESCRIPTION: <b>PAVERS - OVERVIEW</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DPPP.E1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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PRODUCT:

NURAPAD & NURASHIM

DESCRIPTION:

STACKED NURAPAD AND NURASHIM DETAIL

SCALE:

NTS

PREVIOUS DWG No: New

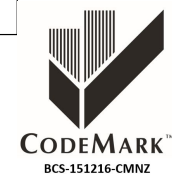
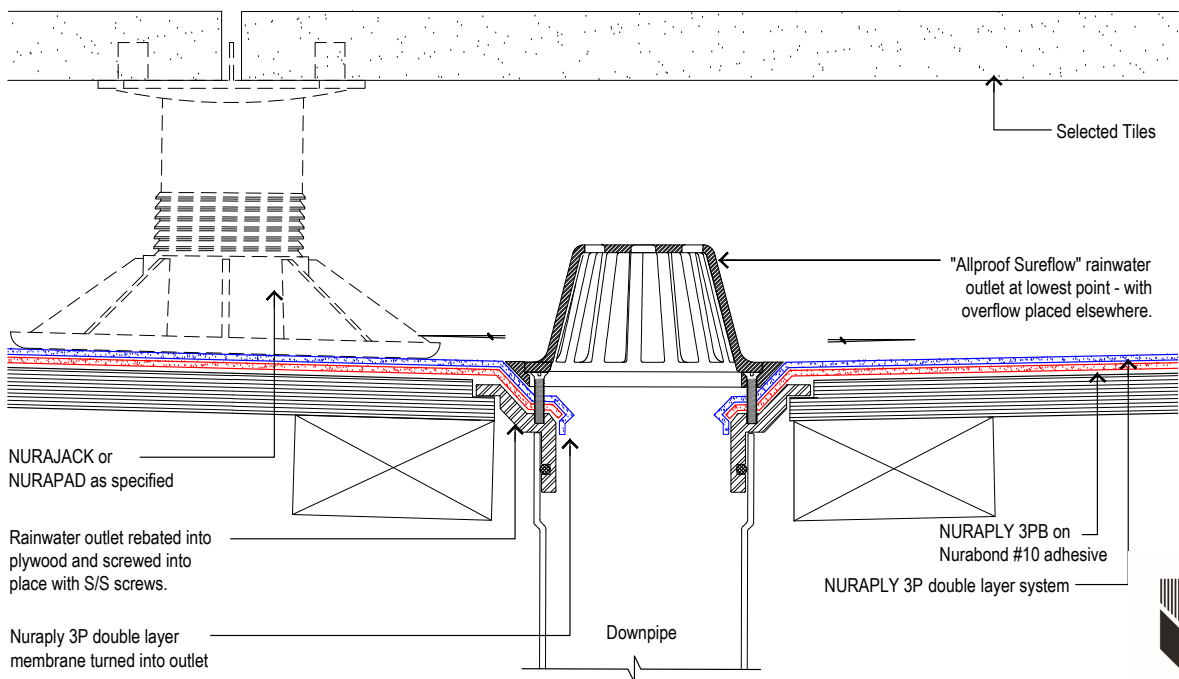
REVISION:

Rev E

DATE: MAY 16

DWG No: DNS.A1

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PRODUCT:

NURAPLY 3P & NURAJACK

DESCRIPTION:

PAVERS - SMALL RAINWATER OUTLET

SCALE:

NTS

PREVIOUS DWG No: New

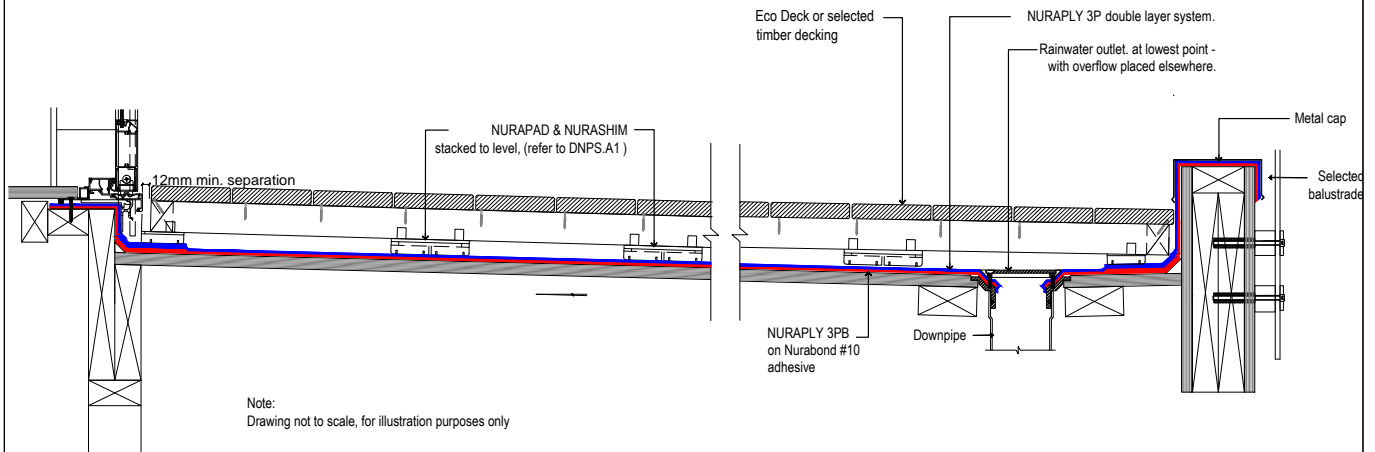
REVISION:

Rev E

DATE: MAY 16

DWG No: DPPP.G1

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**PRODUCT:**

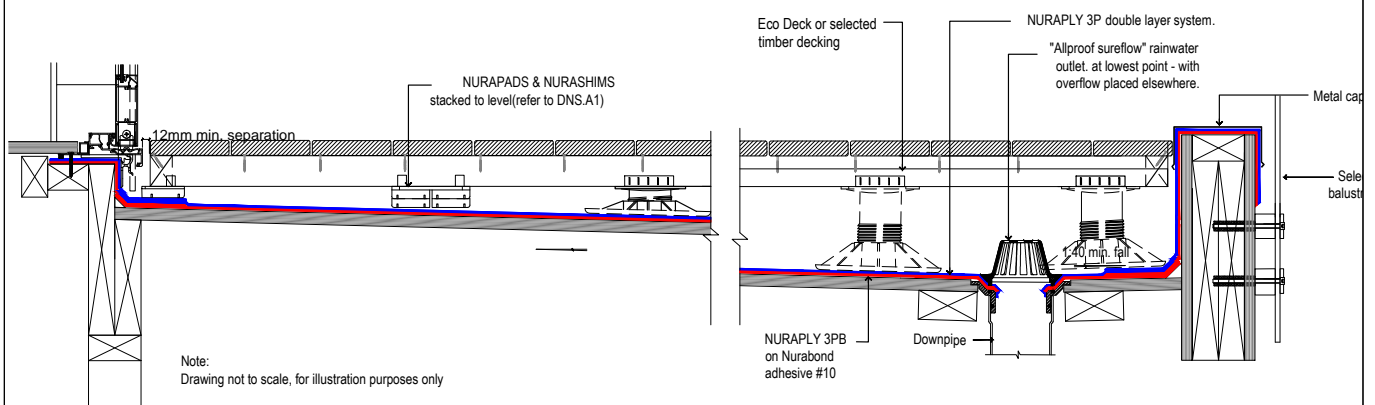
**NURAPAD & NURASHIM**

**DESCRIPTION:**

**TIMBER - OVERVIEW**

SCALE: NTS	PREVIOUS DWG No: New	DWG No: DNS.B4
REVISION: Rev E	DATE: MAY 16	

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**PRODUCT:**

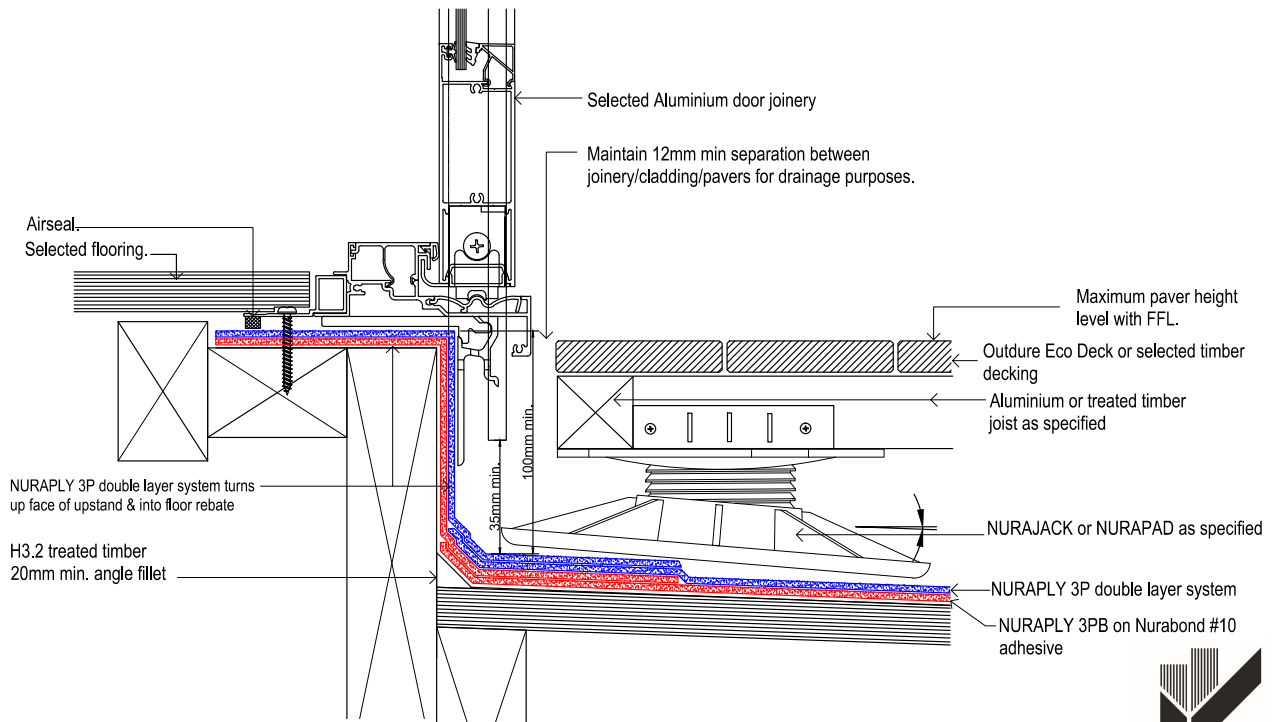
**NURAJACK/NURAPAD & NURASHIM**

**DESCRIPTION:**

**TIMBER - OVERVIEW**

SCALE: NTS	PREVIOUS DWG No: New	DWG No: DNS.B3
REVISION: Rev E	DATE: MAY 16	

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PRODUCT:

**NURAPLY 3P**

DESCRIPTION:

**TIMBER DECKING- ALUMINIUM DOOR DECK THRESHOLD**

SCALE:

NTS

REVISION:

REV E

PREVIOUS DWG No:

New

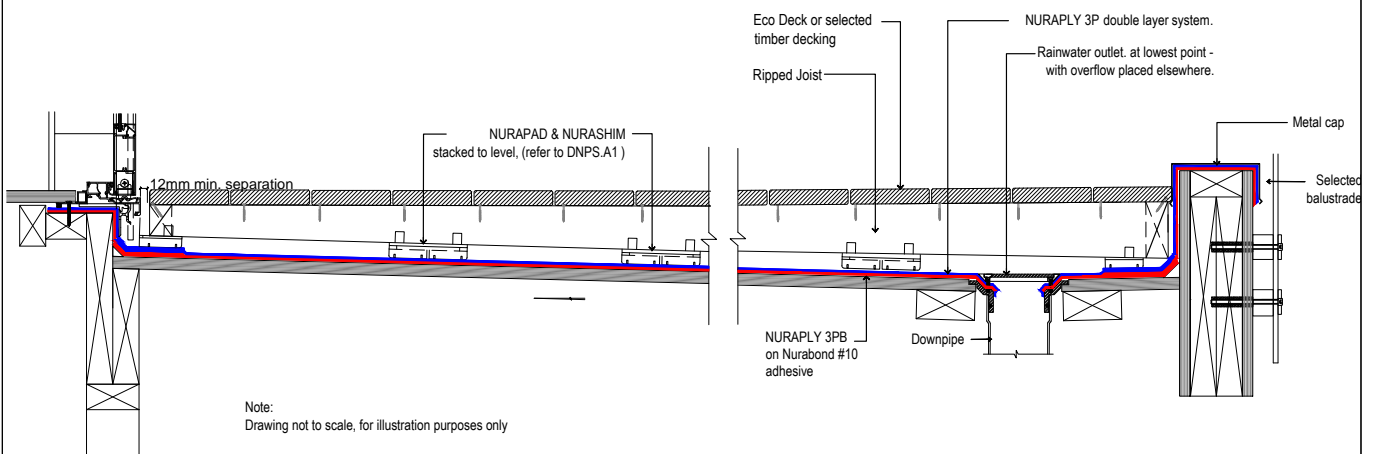
DATE:

MAY 16

DWG No:

DPPT.A1

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PRODUCT:

**NURAPAD & NURASHIM**

DESCRIPTION:

**TIMBER - OVERVIEW**

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

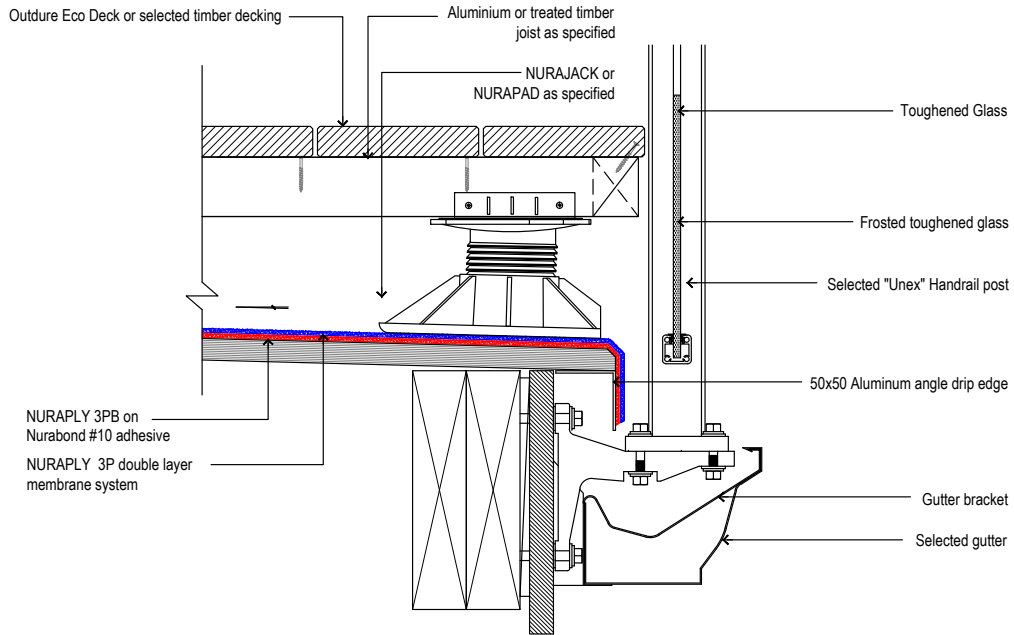
DATE:

MAY 16

DWG No:

DNS.B4

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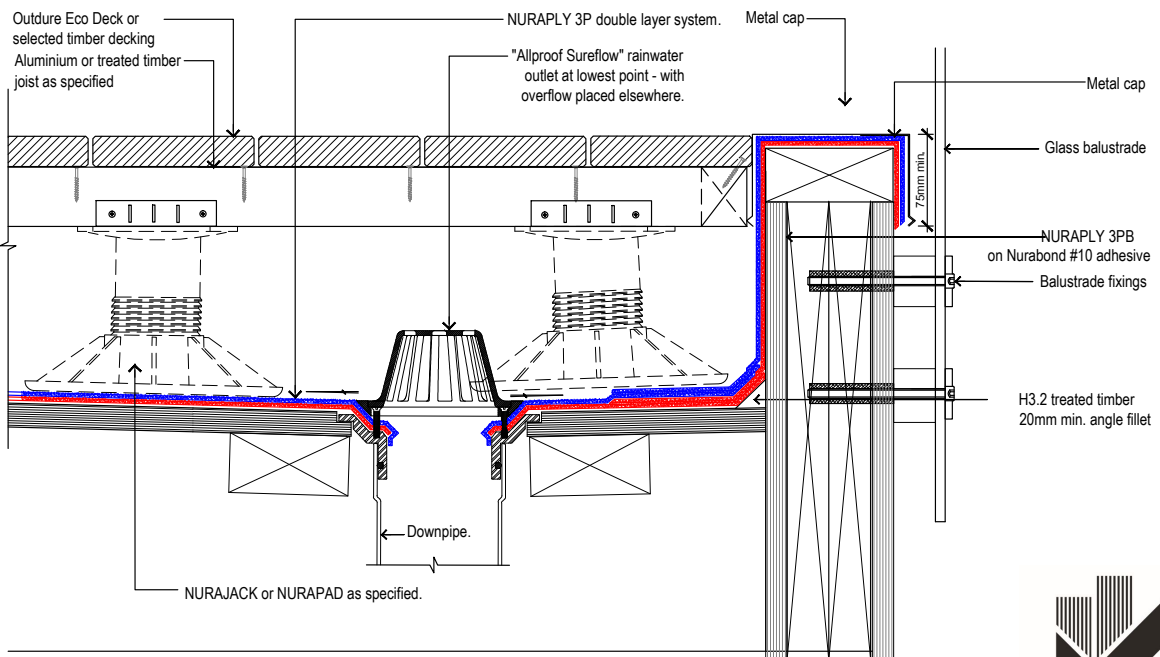


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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	<b>TIMBER DECKING- UNEX BRACKET BALUSTRADE</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPT.B2

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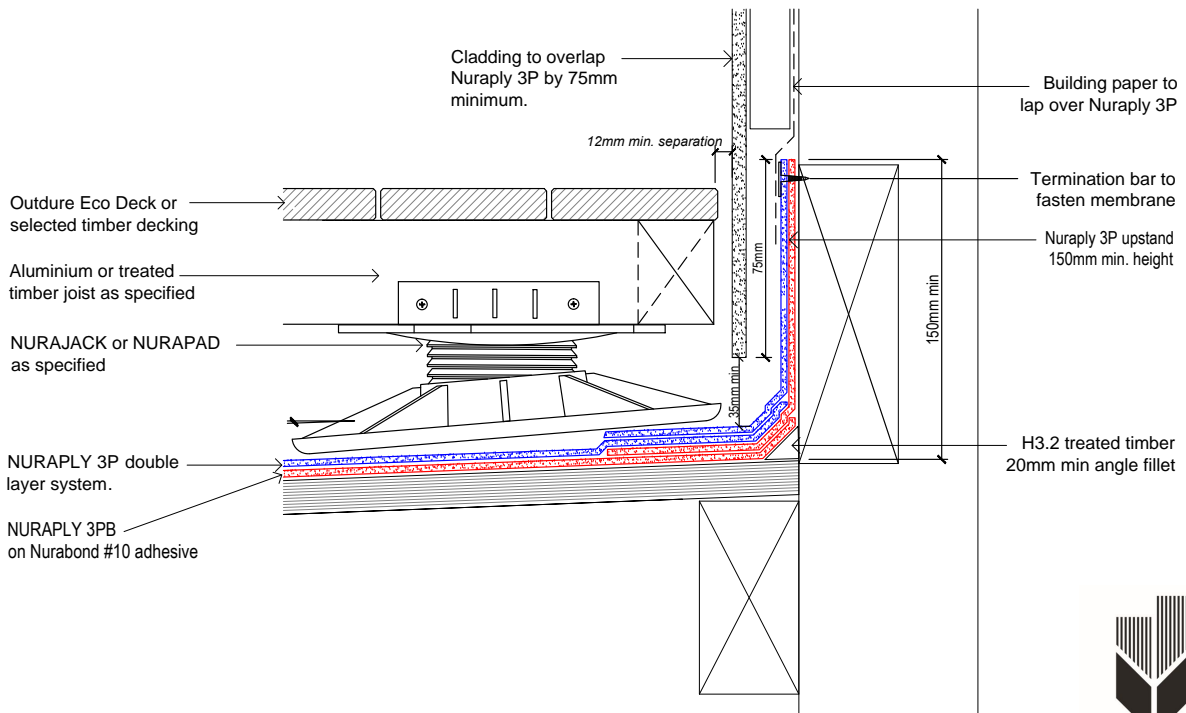
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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	<b>TIMBER DECKING- FRAMELESS BALUSTRADE</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPT.B1



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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

TIMBER DECKING- UPSTAND BEHIND CLADDING

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

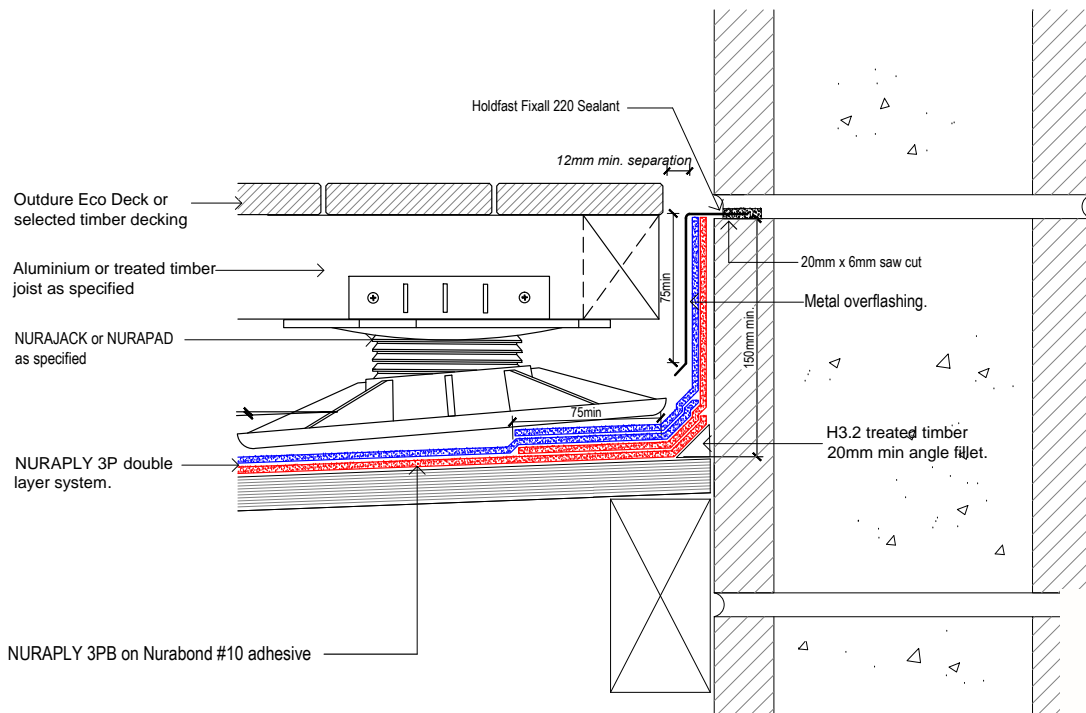
Rev E

DATE: MAY 16

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

TIMBER DECKING- UPSTAND INTO CHASE

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

Rev E

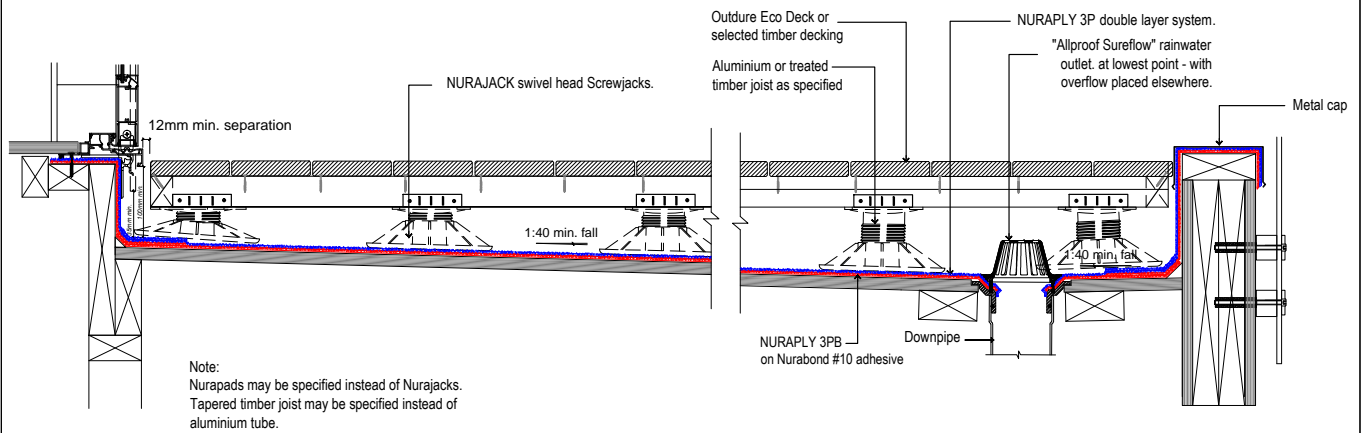
DATE: MAY 16

DWG No:

DPPT.C1



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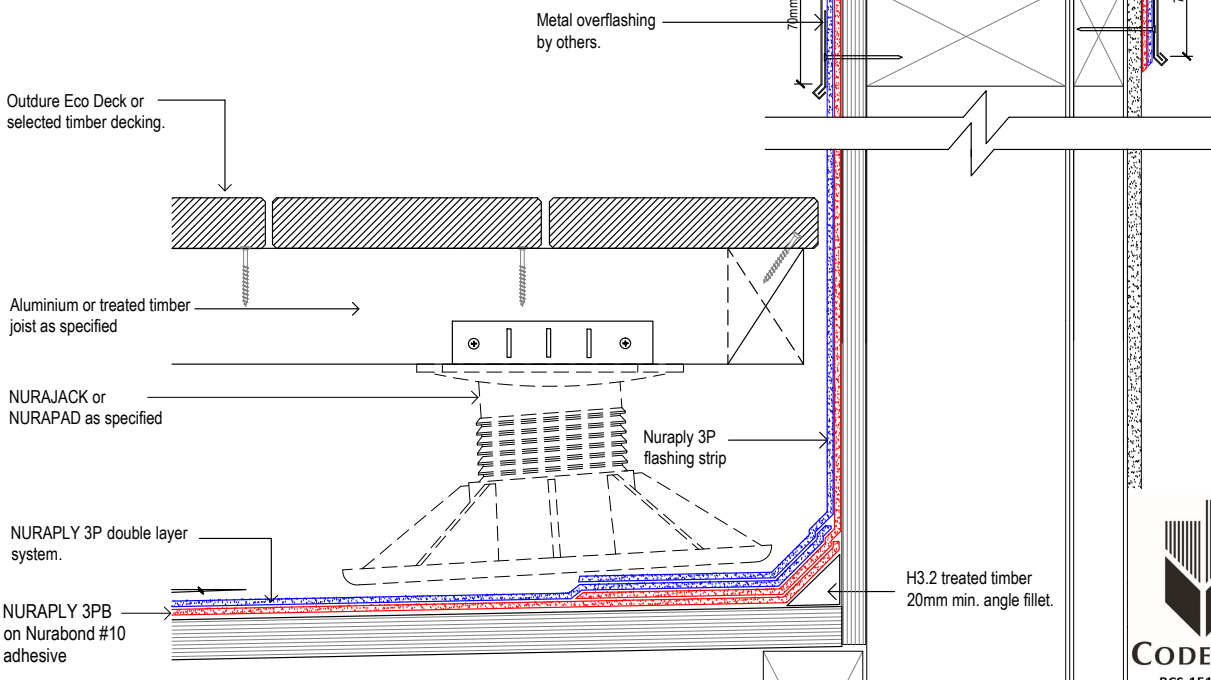
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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	<b>TIMBER DECKING- OVERVIEW</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPT.E1

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Note:  
No min. parapet height required provided membrane fully encapsulates the parapet.



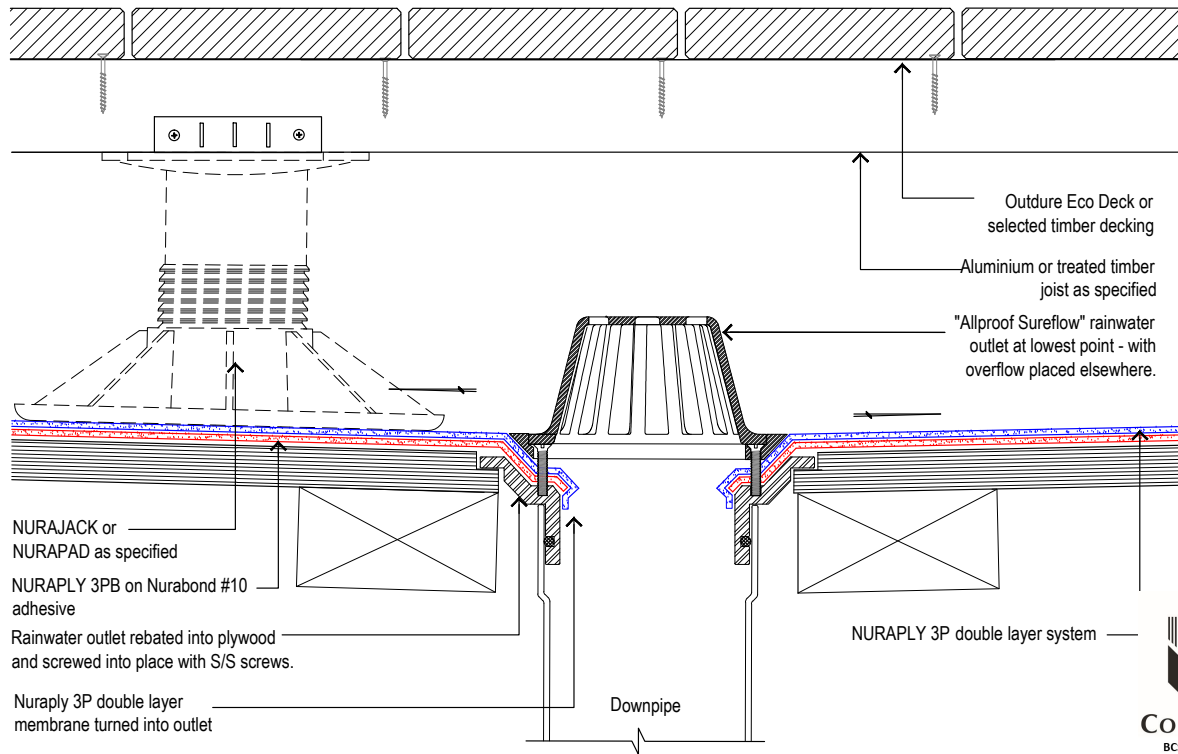
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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	<b>TIMBER DECKING- PARAPET</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPT.D1

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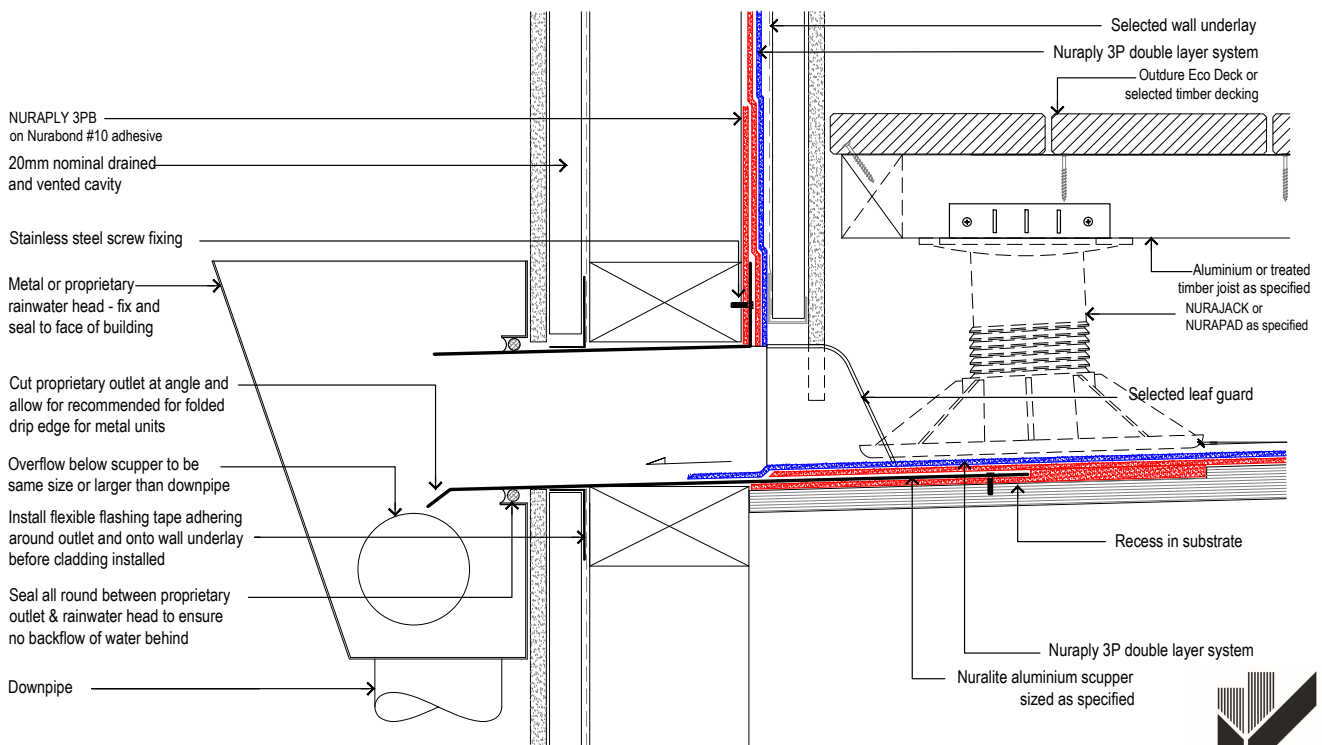


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PRODUCT: <b>NURAPLY 3P &amp; NURAJACK</b>			
DESCRIPTION: <b>TIMBER DECKING- SMALL RAINWATER OUTLET</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DPPT.G1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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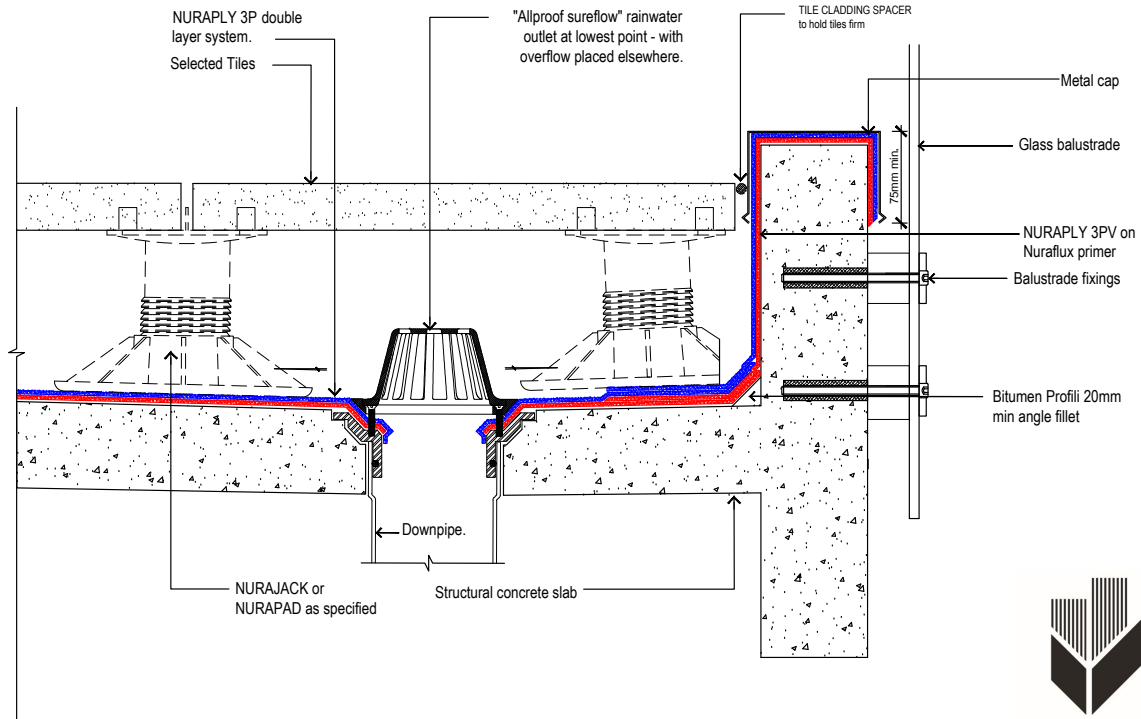


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PRODUCT: <b>NURAPLY 3P &amp; NURAJACK</b>			
DESCRIPTION: <b>TIMBER DECKING- SCUPPER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DPPT.F1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

PAVERS - FRAMELESS BALUSTRADE

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

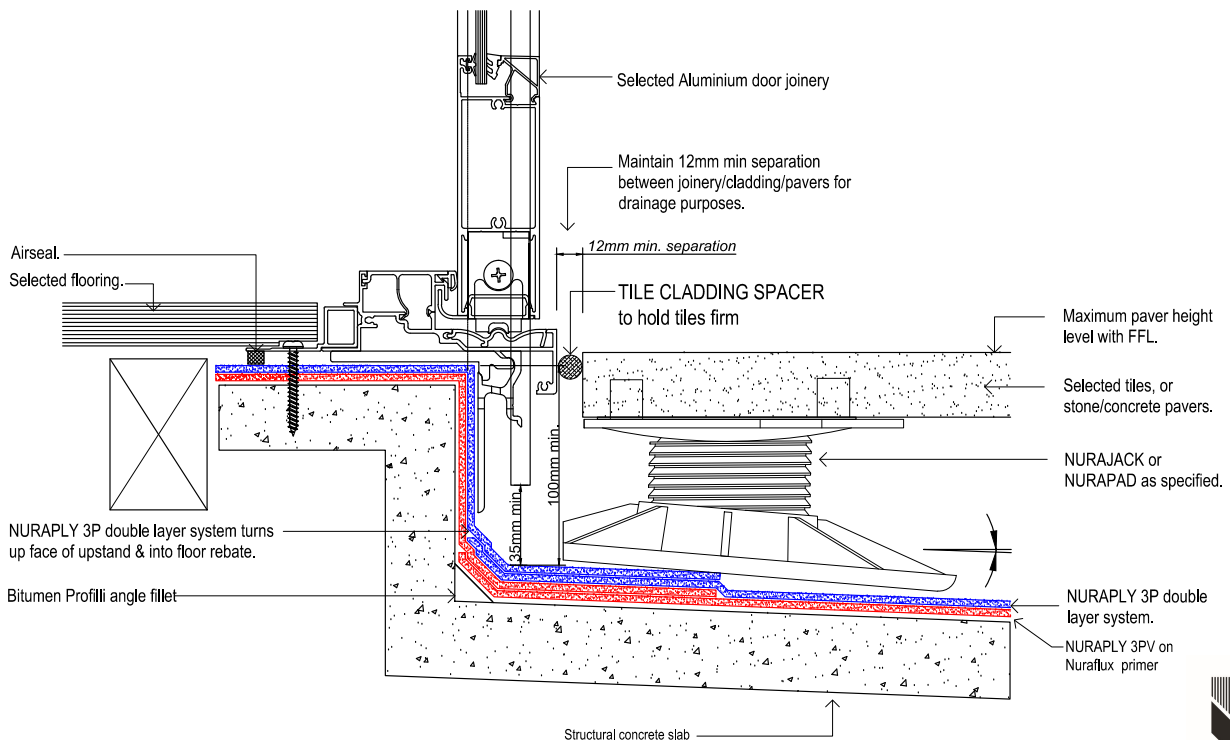
DATE:

MAY 16

DWG No:

DCPP.B1

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

PAVERS - ALUMINIUM DOOR DECK THRESHOLD

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

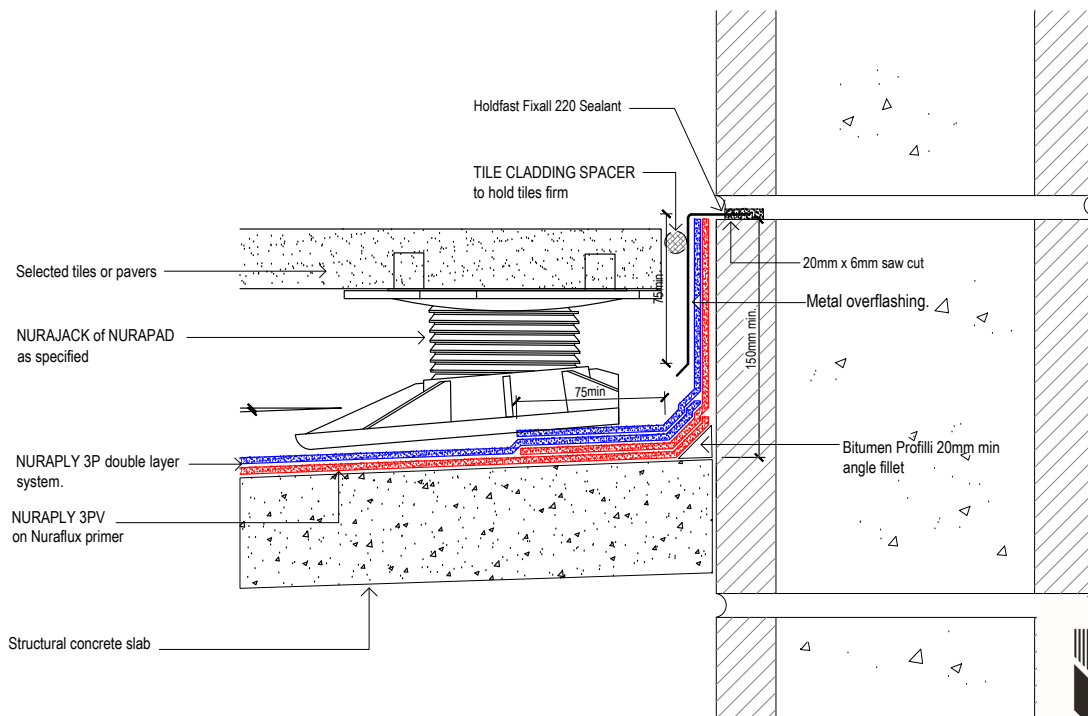
DATE:

MAY 16

DWG No:

DCPP.A1

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

PAVERS - UPSTAND INTO CHASE

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

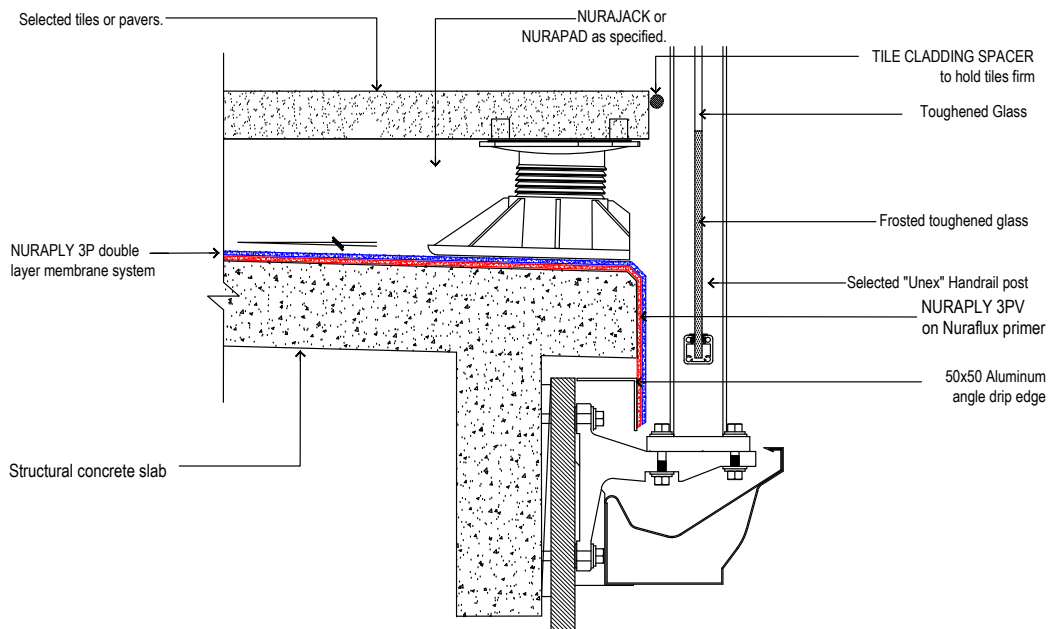
DATE:

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DWG No:

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

PAVERS - UNEX BRACK BALUSTRADE

SCALE:

NTS

REVISION:

Rev E

PREVIOUS DWG No:

New

DATE:

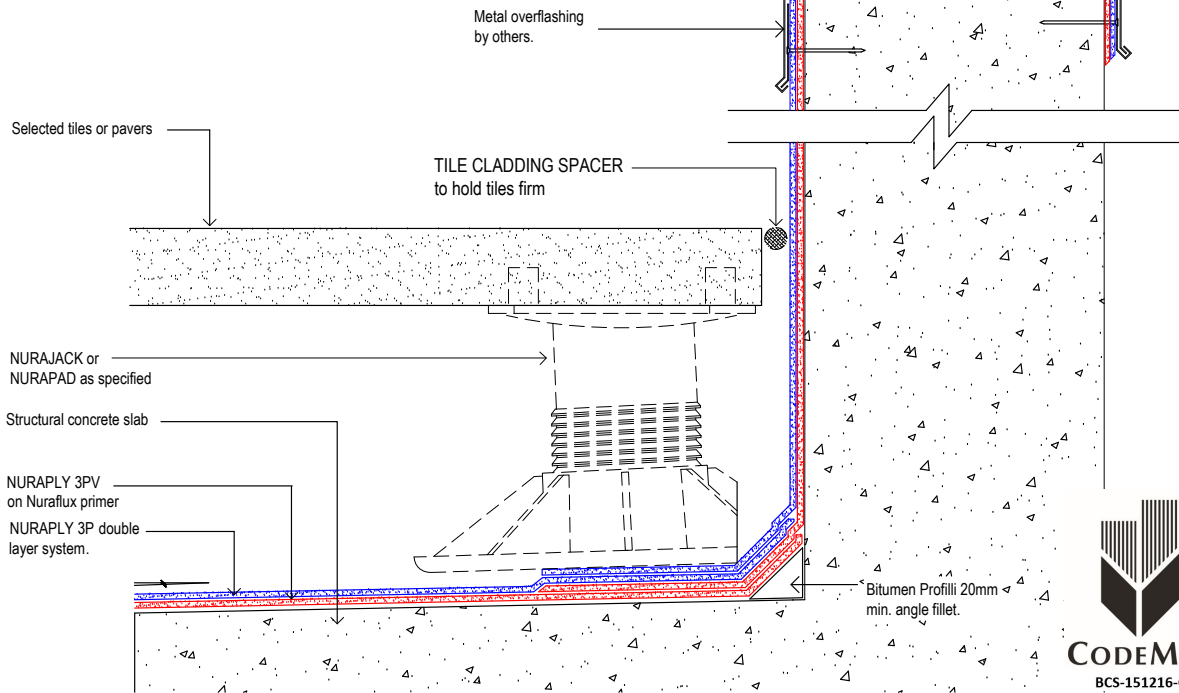
MAY 16

DWG No:

DCPP.B2

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Note:  
No min. parapet height required provided  
membrane fully encapsulates the parapet.



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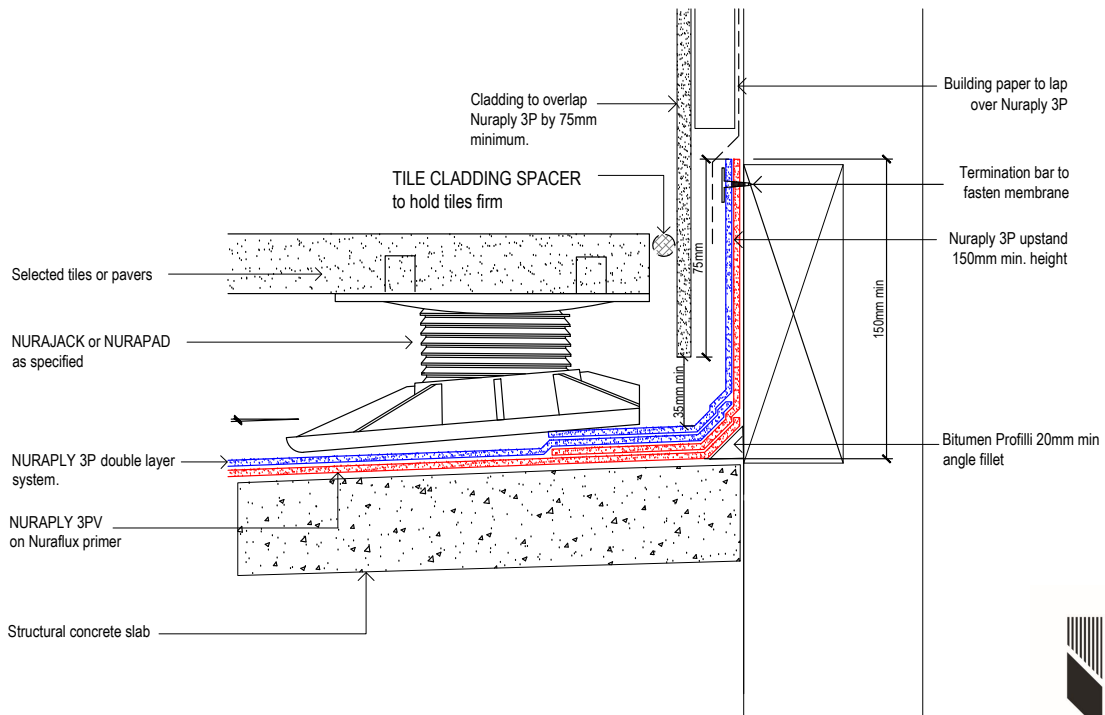
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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	PAVERS - PARAPET		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DCPP.D1

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BCS-151216-CMNZ

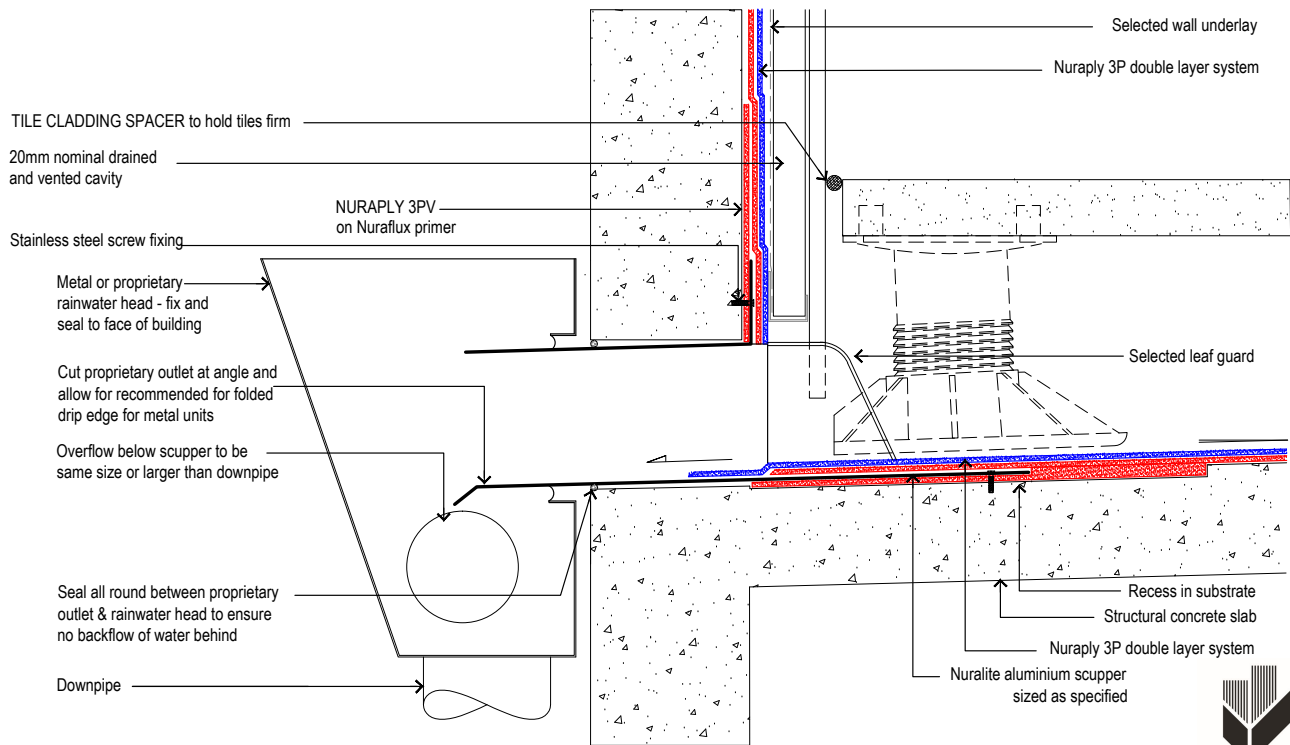
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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	PAVERS - UPSTAND BEHIND CLADDING		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPP.C2

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

PAVERS - SCUPPER

SCALE: NTS

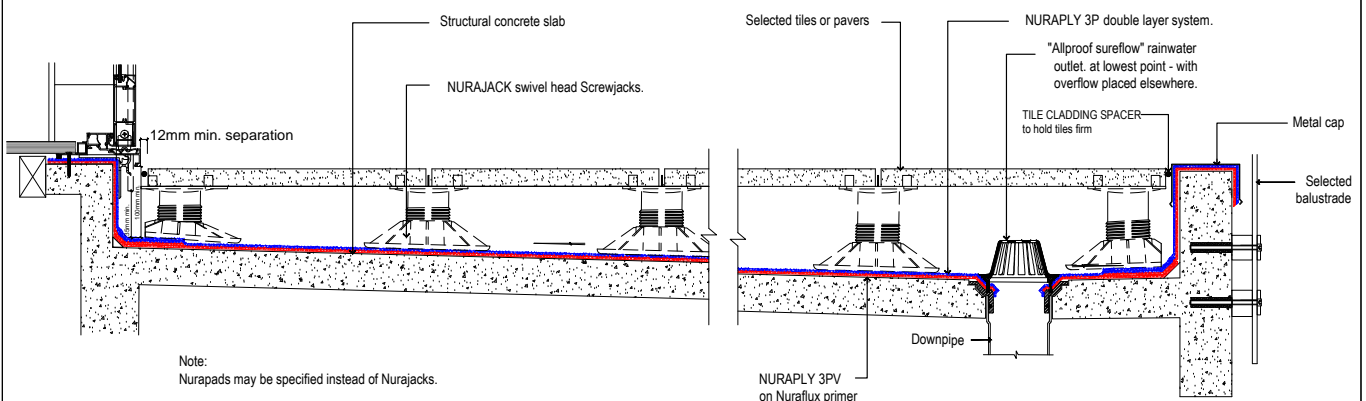
PREVIOUS DWG No: New

REVISION: Rev E

DATE: MAY 16

DWG No: DCPP.F1

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Note:  
Nurapads may be specified instead of Nurajacks.



**Nuralite Waterproofing Ltd.**

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

PAVERS - OVERVIEW

SCALE: NTS

PREVIOUS DWG No: New

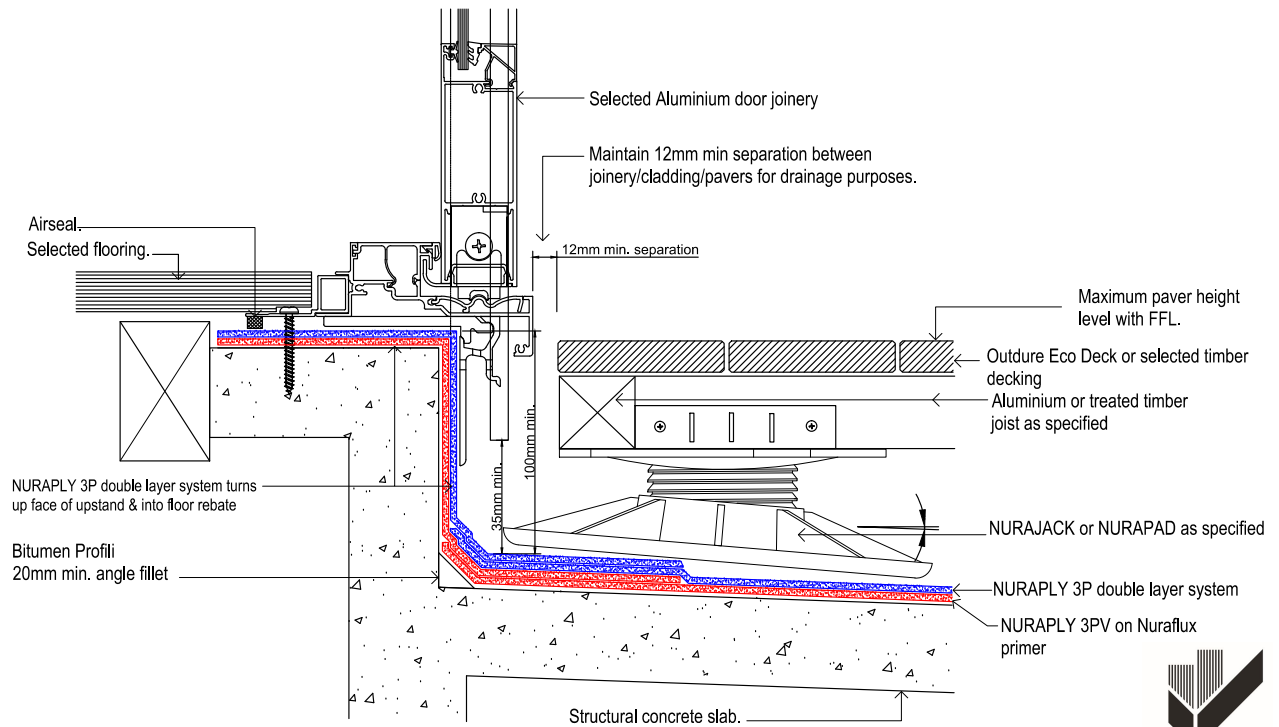
REVISION: Rev E

DATE: MAY 16

DWG No: DCPP.E1



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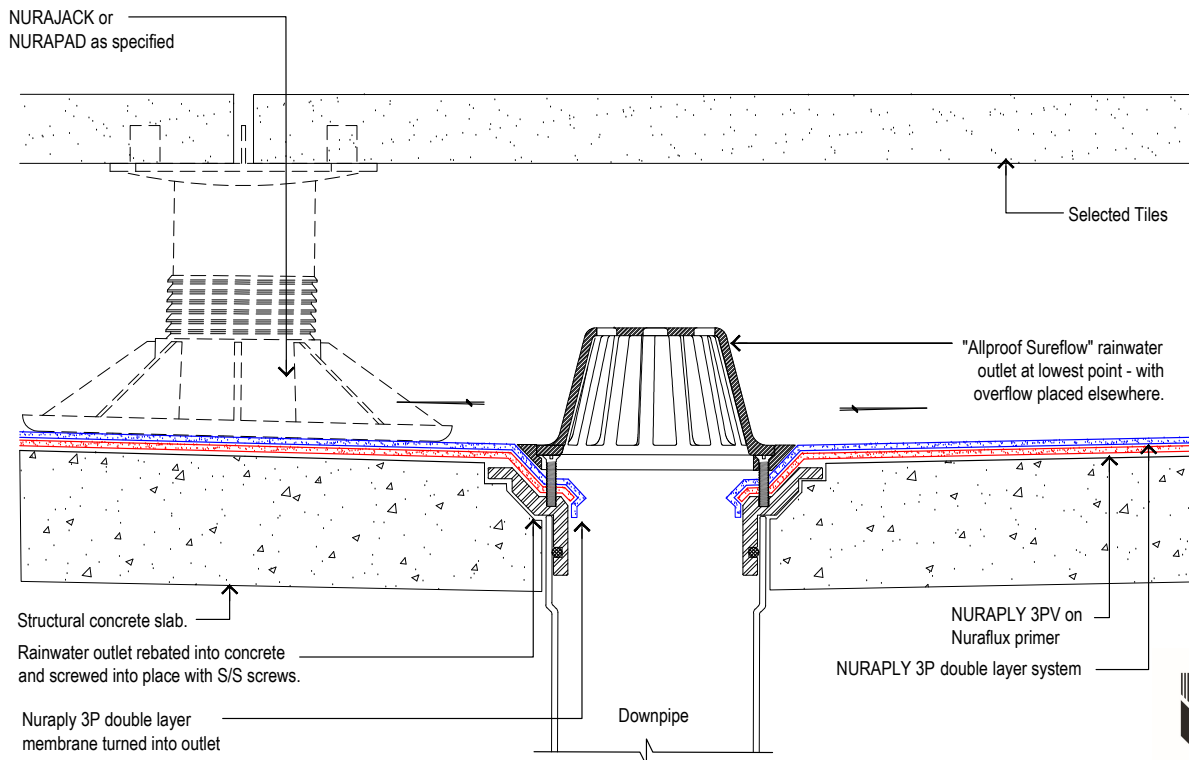


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PRODUCT: <b>NURAPLY 3P</b>			
DESCRIPTION: <b>TIMBER DECKING- ALUMINIUM DOOR DECK THRESHOLD</b>			
SCALE: NTS	PREVIOUS DWS No: New	DWG No: <b>DCPT.A1</b>	
REVISION: REV E	DATE: MAY 16		

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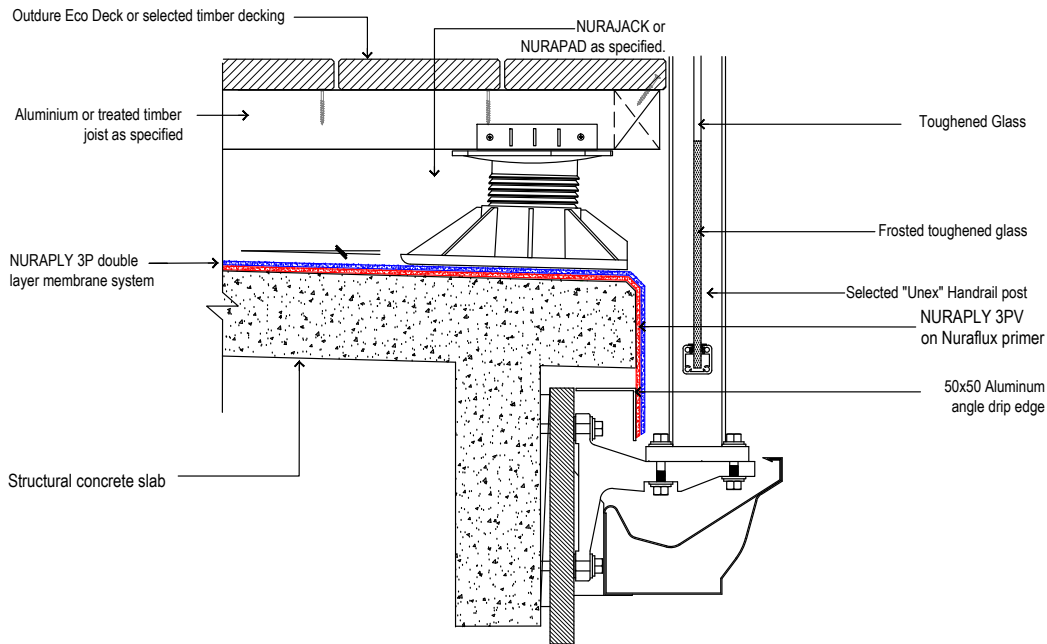
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PRODUCT: <b>NURAPLY 3P &amp; NURAJACK</b>			
DESCRIPTION: <b>PAVERS - SMALL RAINWATER OUTLET</b>			
SCALE: NTS	PREVIOUS DWS No: New	DWG No: <b>DCPP.G1</b>	
REVISION: Rev E	DATE: MAY 16		



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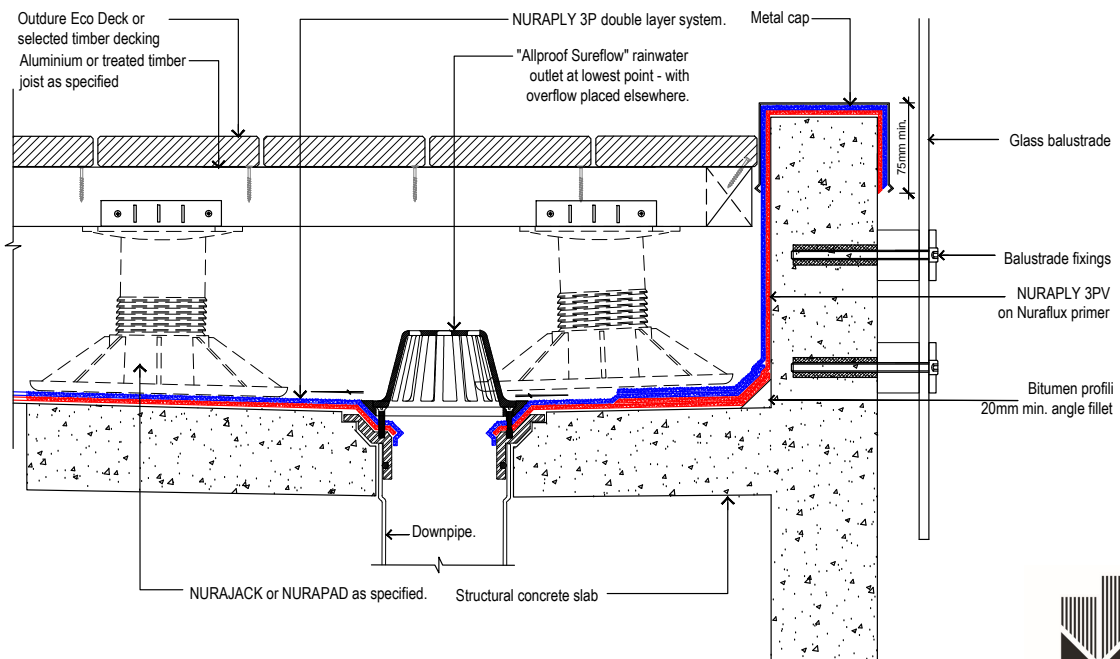


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PRODUCT: <b>NURAPLY 3P &amp; NURAJACK</b>			
DESCRIPTION: <b>TIMBER DECKING - UNEX BRACK BALUSTRADE</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DCPT.B2</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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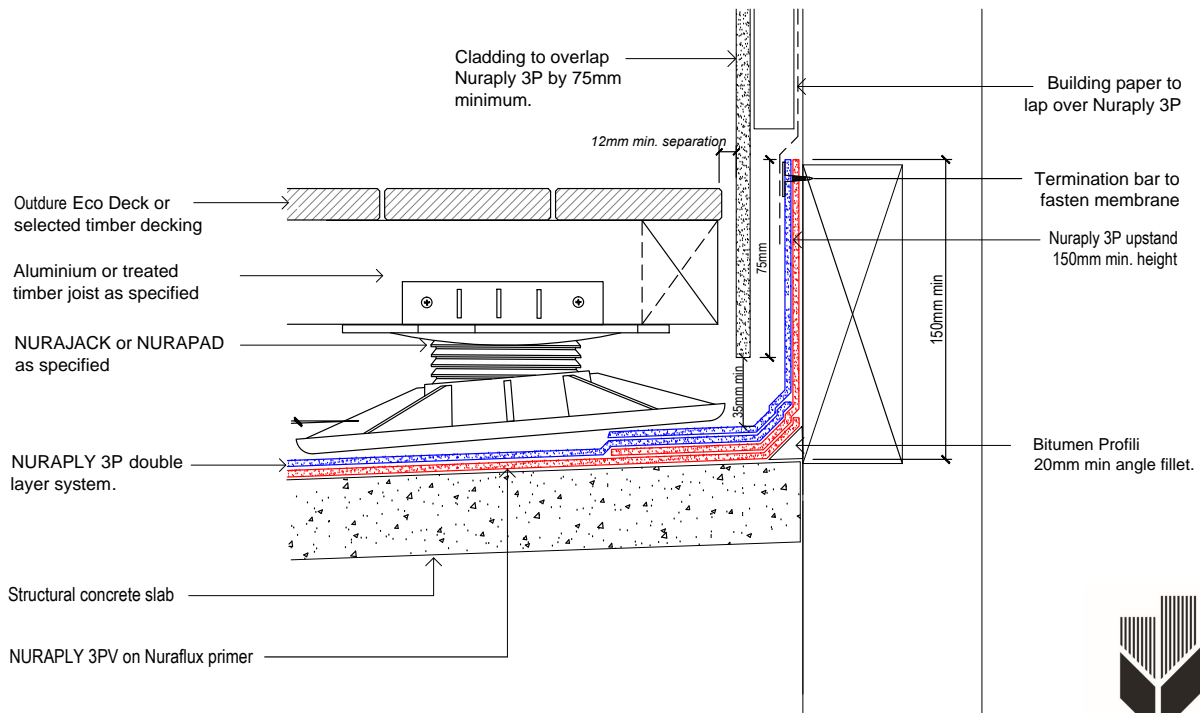


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PRODUCT: <b>NURAPLY 3P &amp; NURAJACK</b>			
DESCRIPTION: <b>TIMBER DECKING - FRAMELESS BALUSTRADE</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DPPT.B1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

TIMBER DECKING- UPSTAND BEHIND CLADDING

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

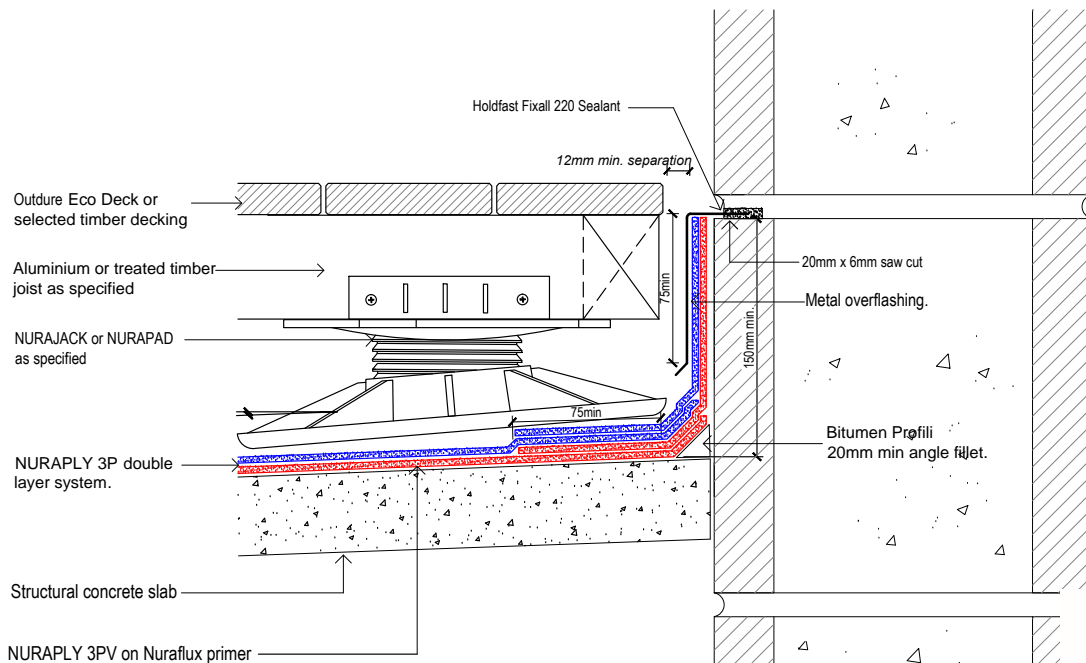
Rev E

DATE: MAY 16

DWG No:

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PRODUCT:

**NURAPLY 3P & NURAJACK**

DESCRIPTION:

TIMBER DECKING- UPSTAND INTO CHASE

SCALE:

NTS

PREVIOUS DWG No: New

REVISION:

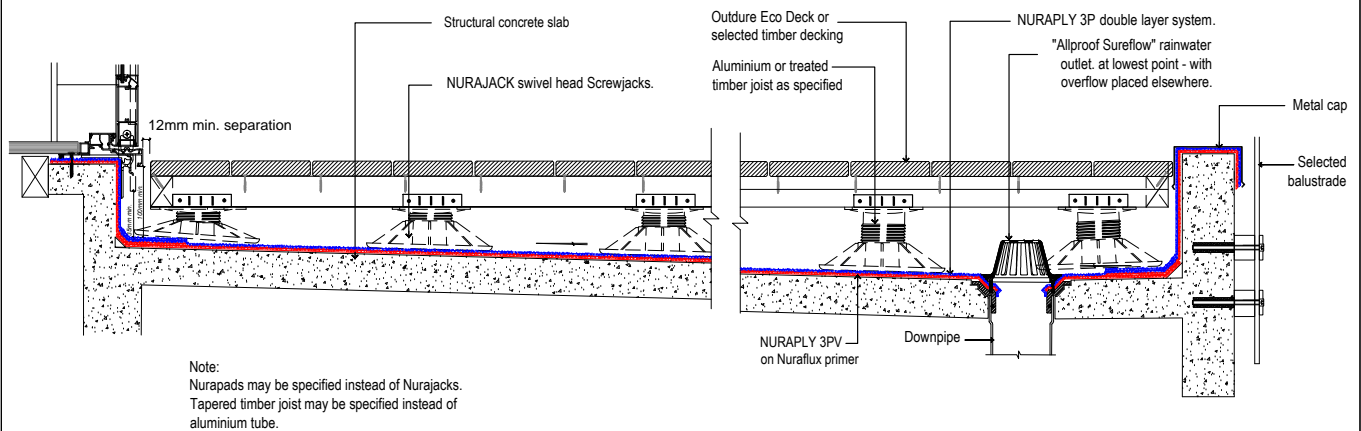
Rev E

DATE: MAY 16

DWG No:

DCPT.C1

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**NURALITE**  
THE FLAT ROOF EXPERTS

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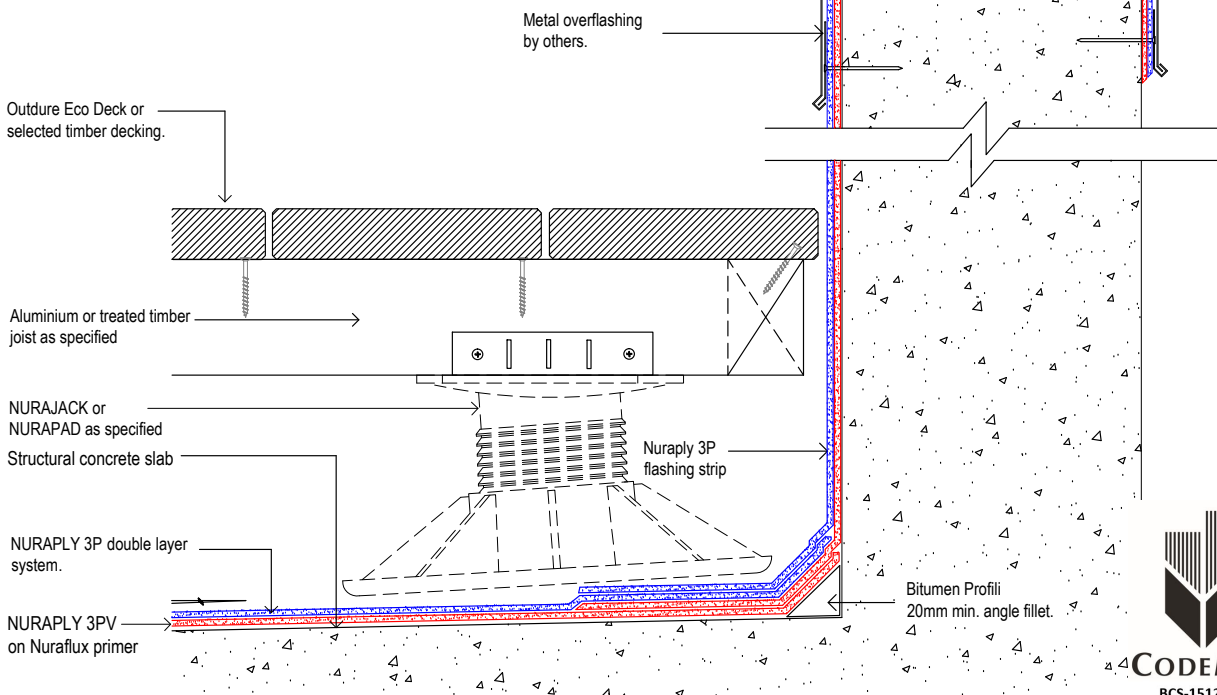
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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	<b>TIMBER DECKING- OVERVIEW</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DCPT.E1

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Note:  
No min. parapet height required provided membrane fully encapsulates the parapet.



**NURALITE**  
THE FLAT ROOF EXPERTS

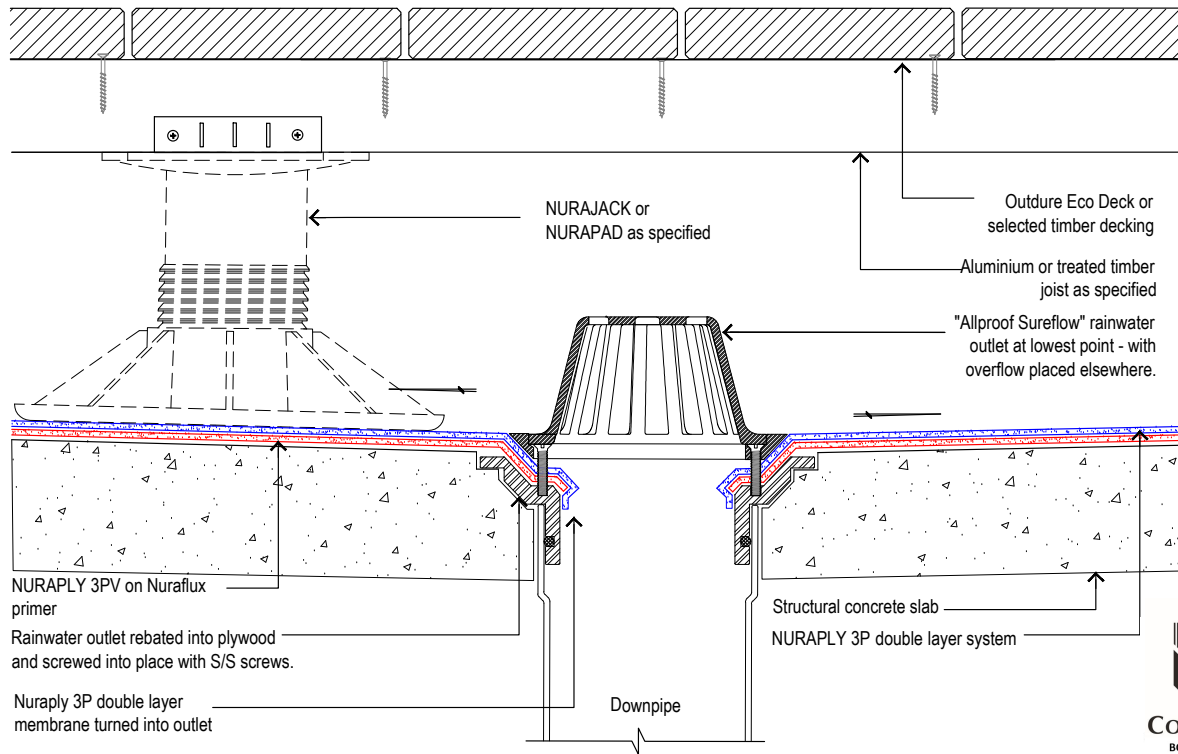
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PRODUCT:	<b>NURAPLY 3P &amp; NURAJACK</b>		
DESCRIPTION:	<b>TIMBER DECKING- PARAPET</b>		
SCALE:	NTS	PREVIOUS DWG No:	New
REVISION:	Rev E	DATE:	MAY 16
		DWG No:	DPPT.D1

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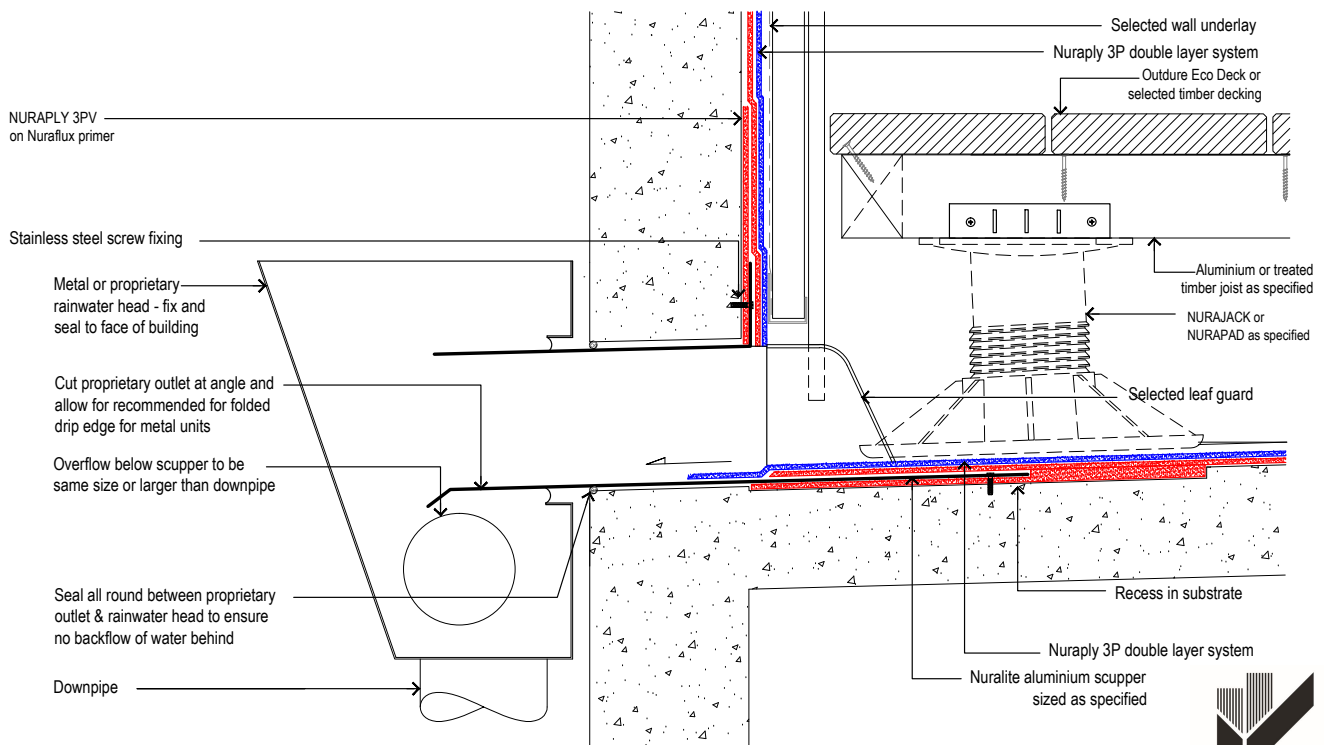


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PRODUCT: <b>NURAPLY 3P &amp; NURAJACK</b>			
DESCRIPTION: <b>TIMBER DECKING- SMALL RAINWATER OUTLET</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DCPT.G1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		

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PRODUCT: <b>NURAPLY 3P &amp; NURAJACK</b>			
DESCRIPTION: <b>TIMBER DECKING- SCUPPER</b>			
SCALE: <b>NTS</b>	PREVIOUS DWG No: <b>New</b>	DWG No: <b>DCPT.F1</b>	
REVISION: <b>Rev E</b>	DATE: <b>MAY 16</b>		