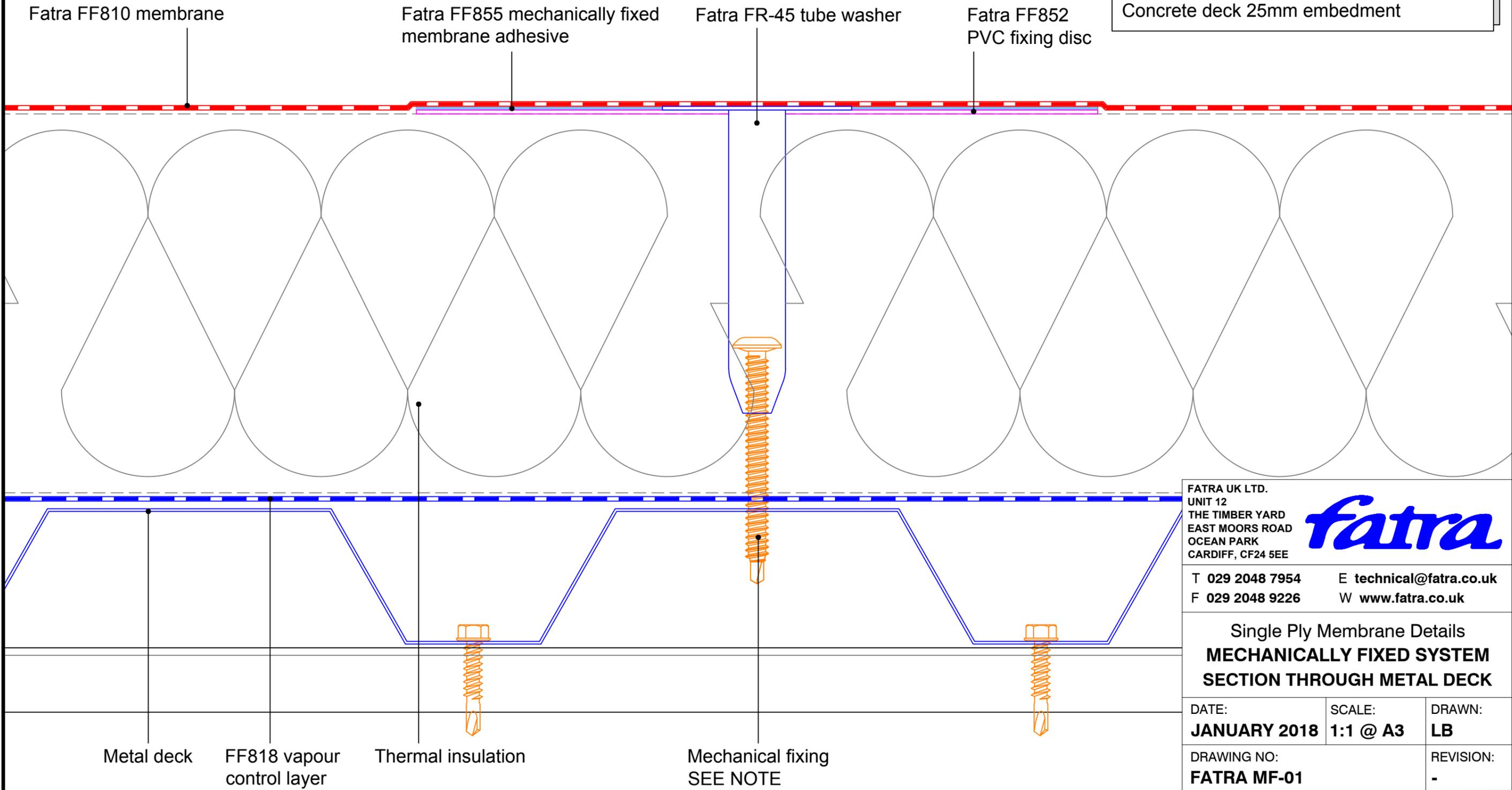


**Single Ply Membrane Details**  
 Mechanically Fixed System  
 Section through metal deck

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SECTION THROUGH METAL DECK**

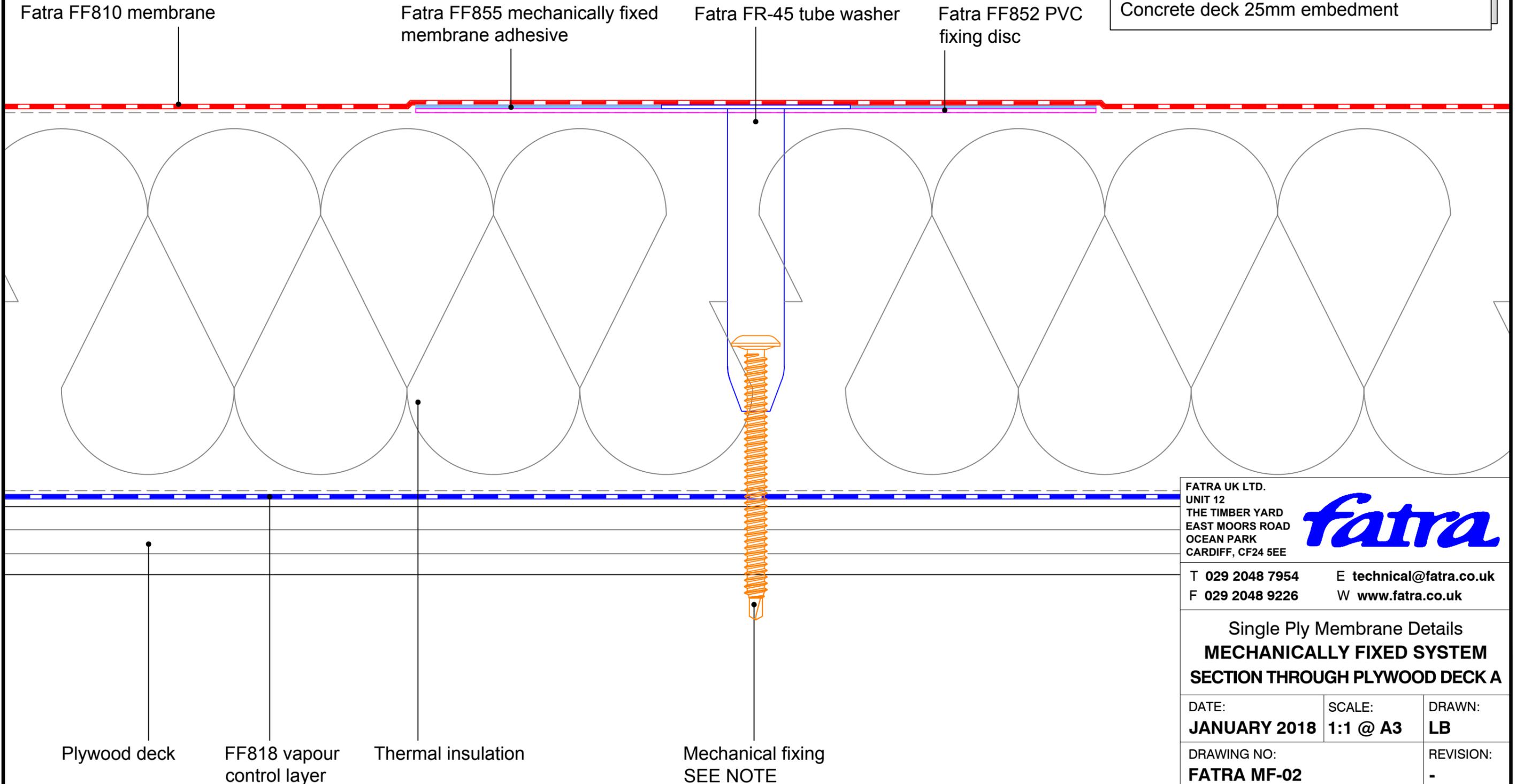
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:1 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-01</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
 Mechanically Fixed System  
 Section through plywood deck - A

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SECTION THROUGH PLYWOOD DECK A**

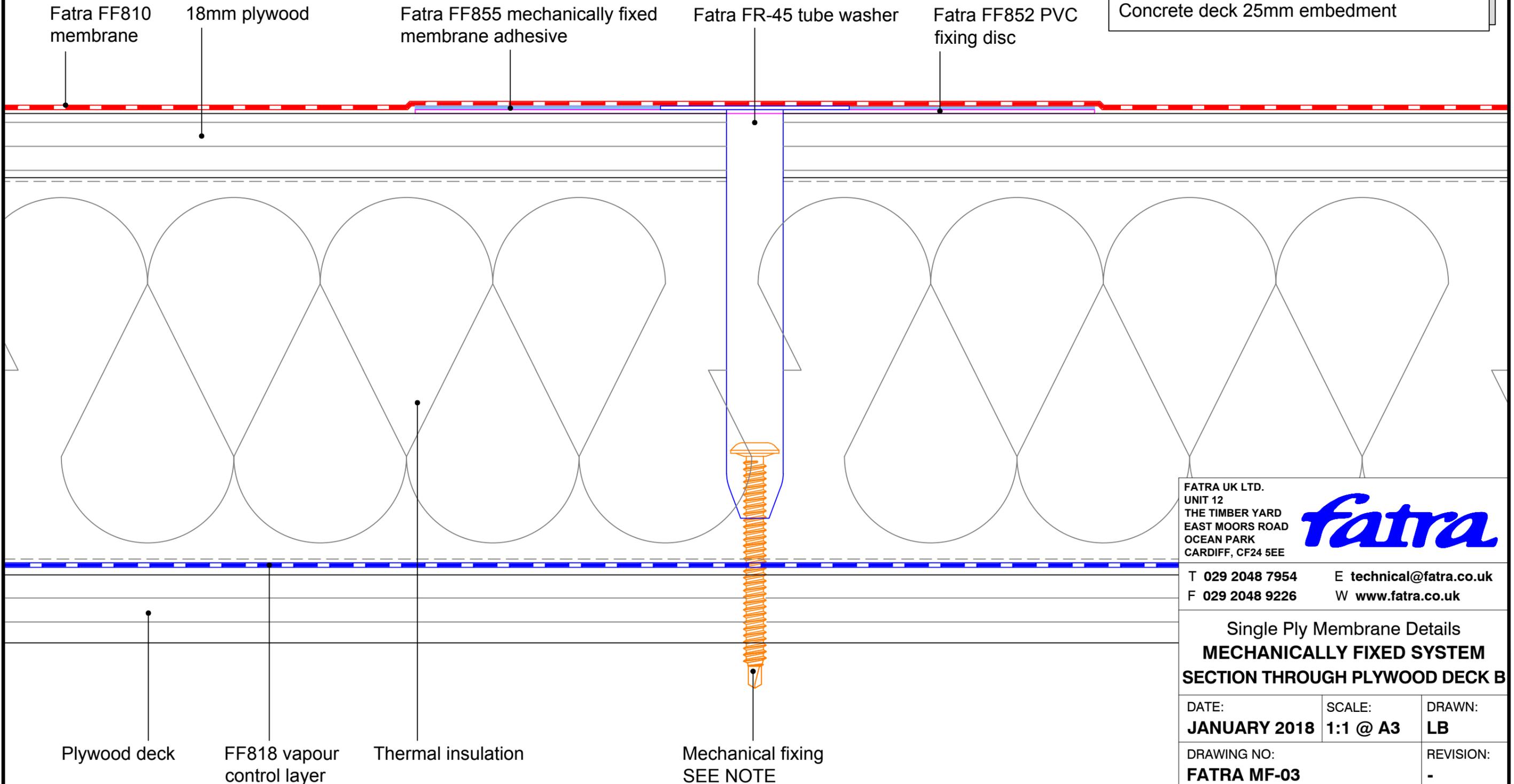
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DRAWING NO: <b>FATRA MF-02</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
 Mechanically Fixed System  
 Section through plywood deck - B

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SECTION THROUGH PLYWOOD DECK B**

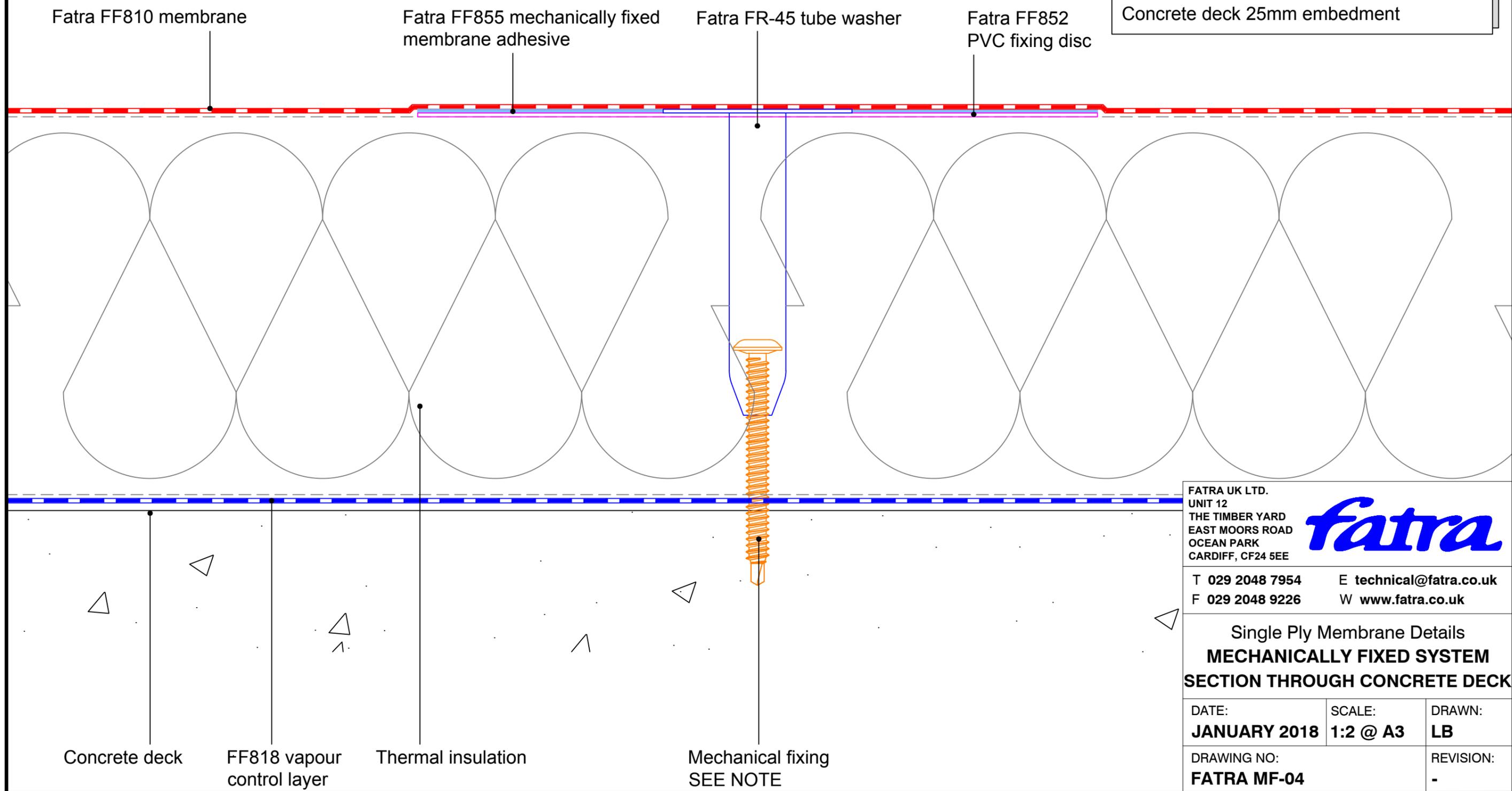
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DRAWING NO: <b>FATRA MF-03</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Section through concrete deck**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SECTION THROUGH CONCRETE DECK**

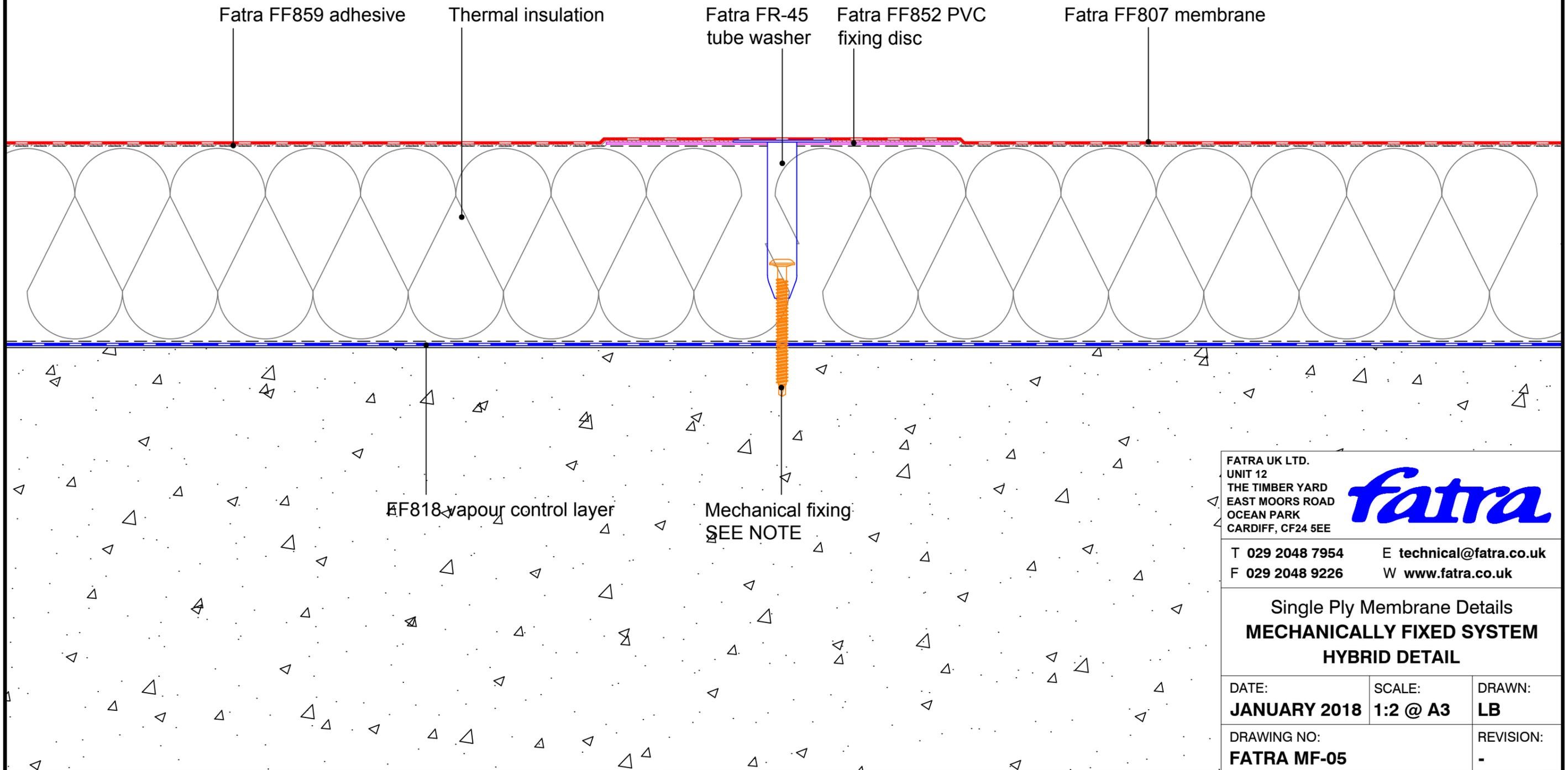
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-04</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically fixed insulation, fully adhered membrane**  
**Hybrid detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**HYBRID DETAIL**

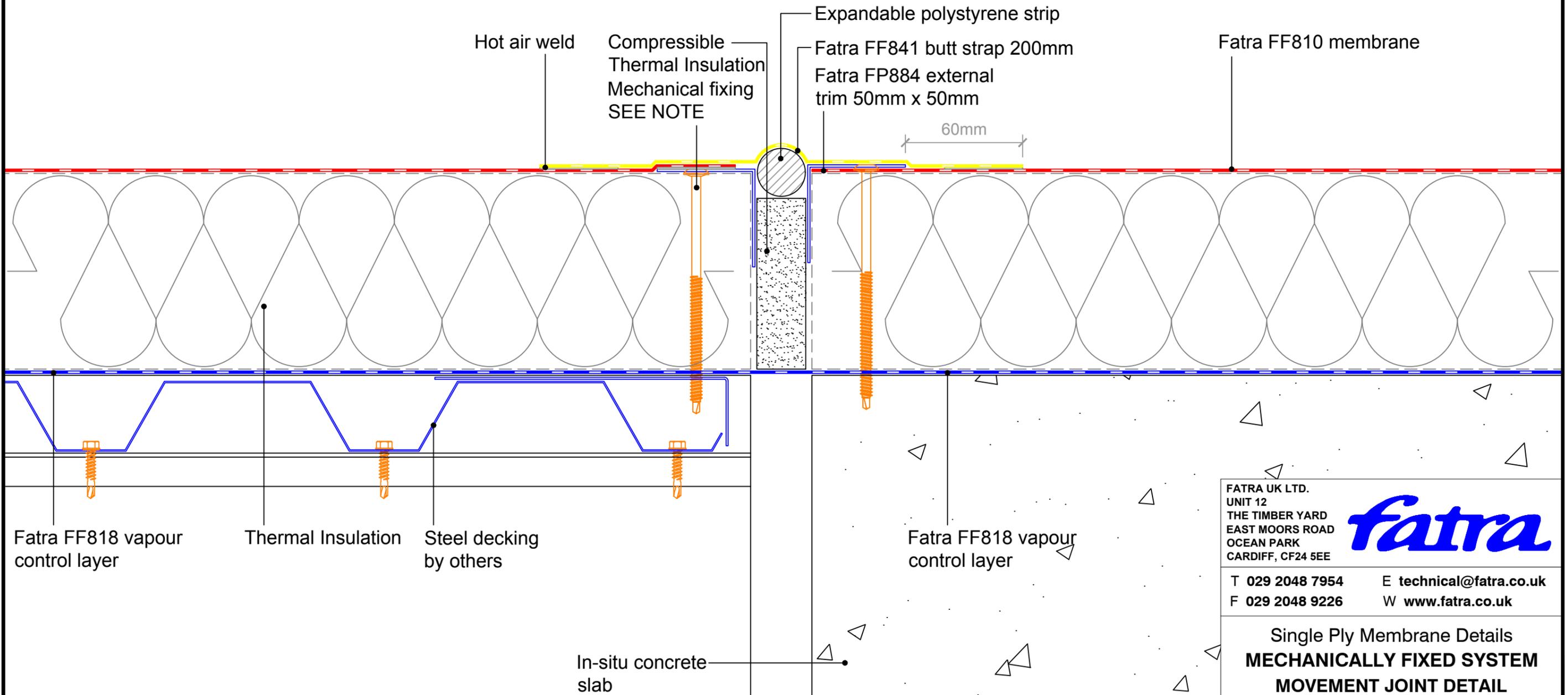
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-05</b>		REVISION: -

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Movement joint detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**MOVEMENT JOINT DETAIL**

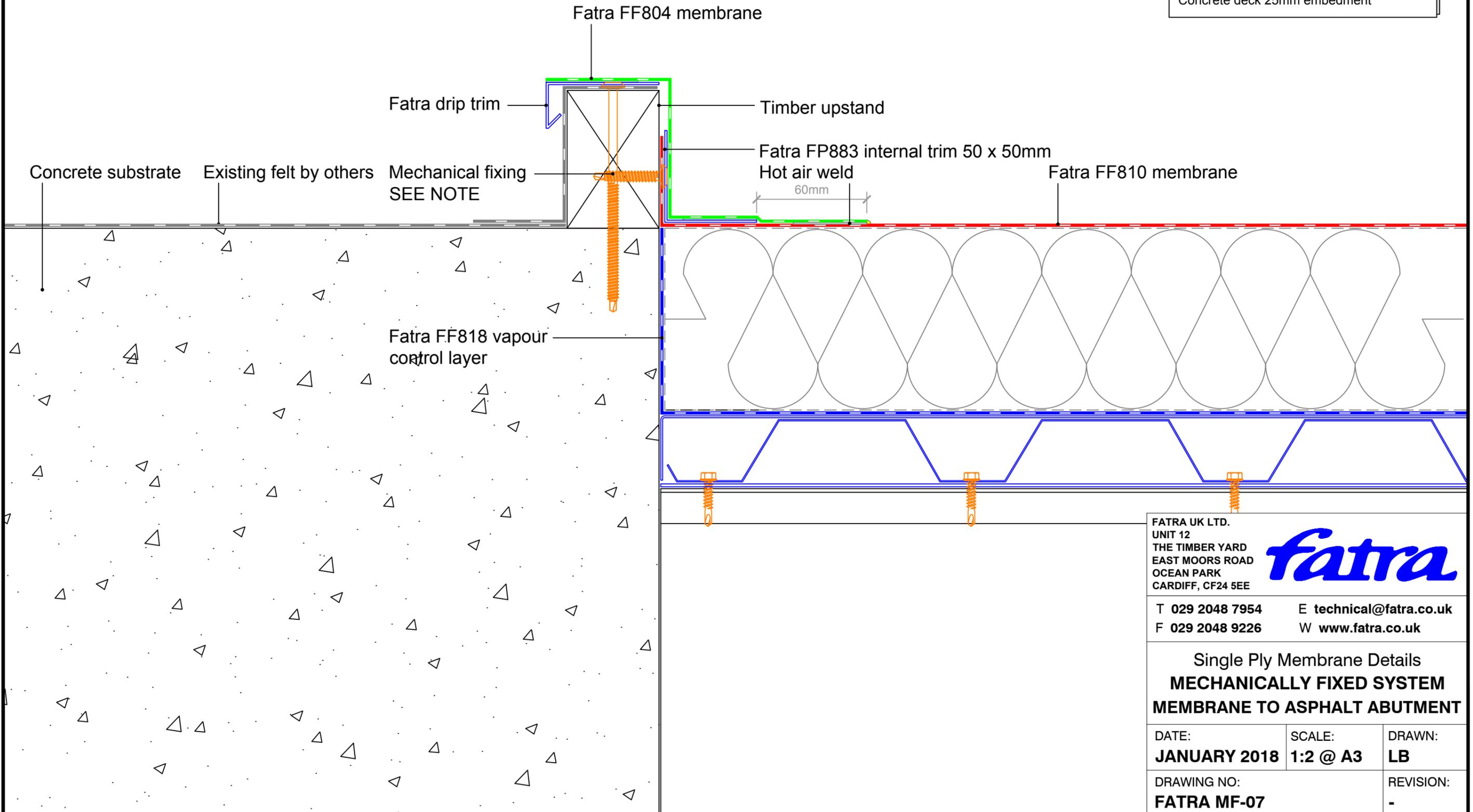
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-06</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Membrane to asphalt abutment**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**MEMBRANE TO ASPHALT ABUTMENT**

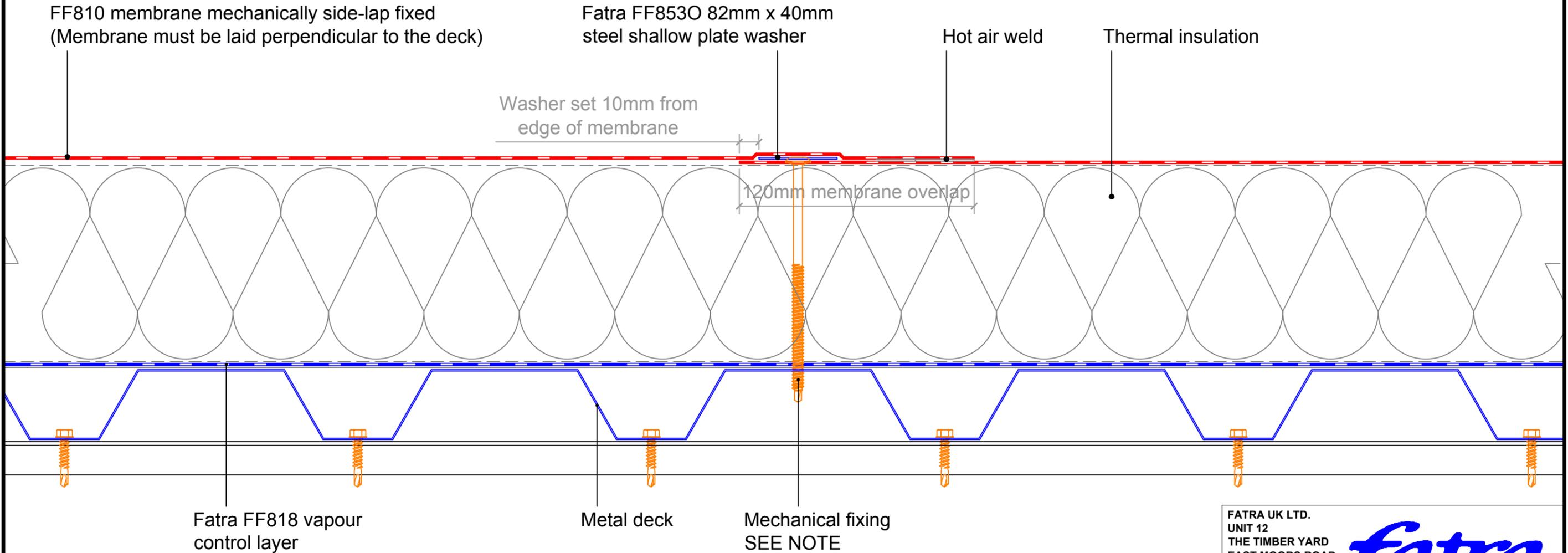
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-07</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Section through side lap fixed**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



**CONSTRUCTION NOTE:-**  
 When side-lap fixing the membrane field area, a row of FF852 fixing discs should also be installed 200mm from the roof perimeter at a maximum spacing of 500mm

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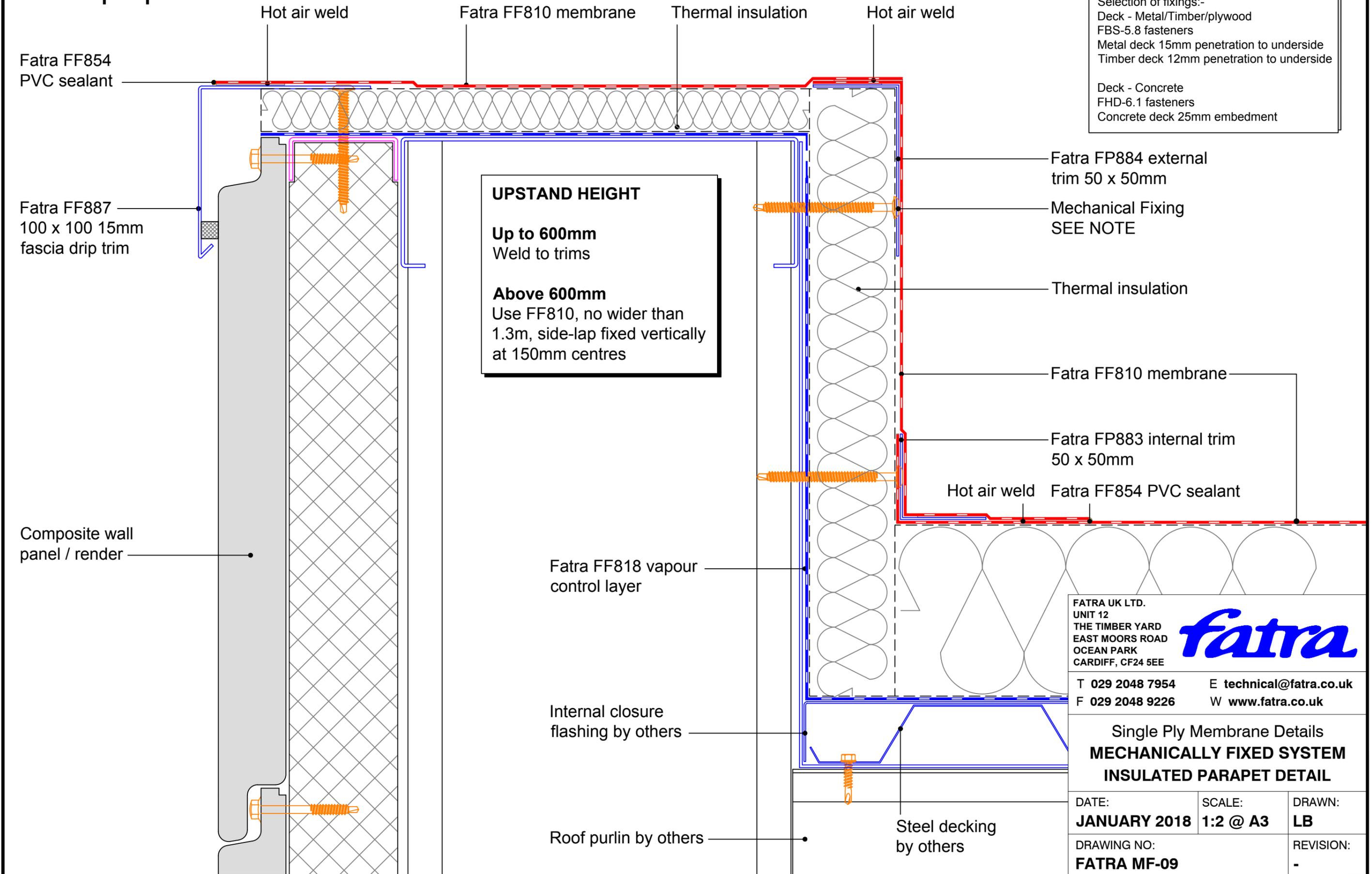
Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SECTION THROUGH SIDE LAP FIXED**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-08</b>		REVISION: <b>-</b>

# Single Ply Membrane Details

Mechanically Fixed System

Insulated parapet detail



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

**UPSTAND HEIGHT**

**Up to 600mm**  
 Weld to trims

**Above 600mm**  
 Use FF810, no wider than 1.3m, side-lap fixed vertically at 150mm centres

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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**INSULATED PARAPET DETAIL**

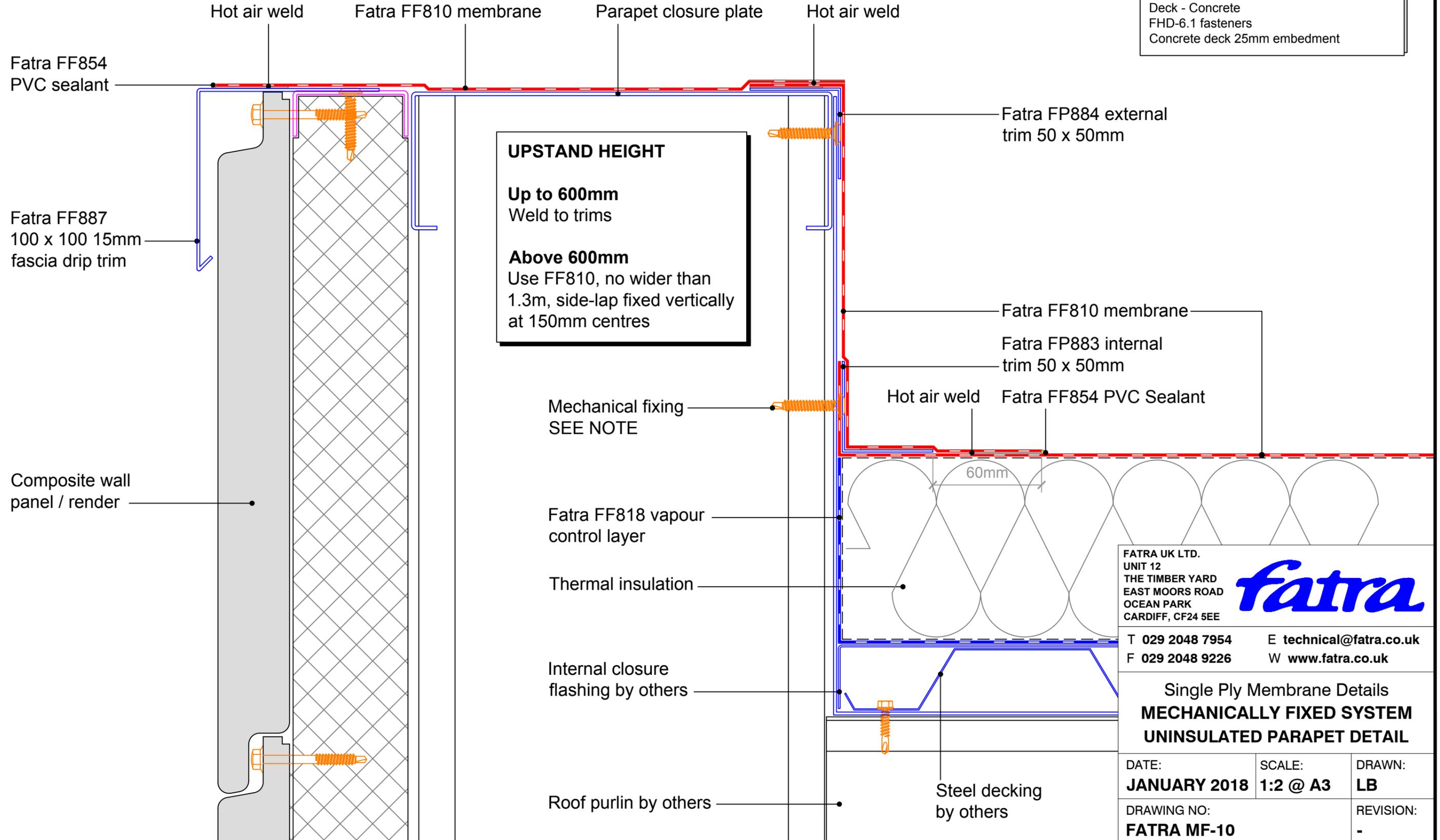
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DRAWING NO: <b>FATRA MF-09</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Un-Insulated parapet detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**UNINSULATED PARAPET DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-10</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Parapet detail with handrail**

Fatra FF854  
PVC sealant  
 Fatra FF887  
100 x 100 15mm  
fascia drip trim

Composite wall  
panel / render

**CONSTRUCTION NOTE:-**

To ensure effective waterproofing, the horizontal section of the handrail should be installed first.

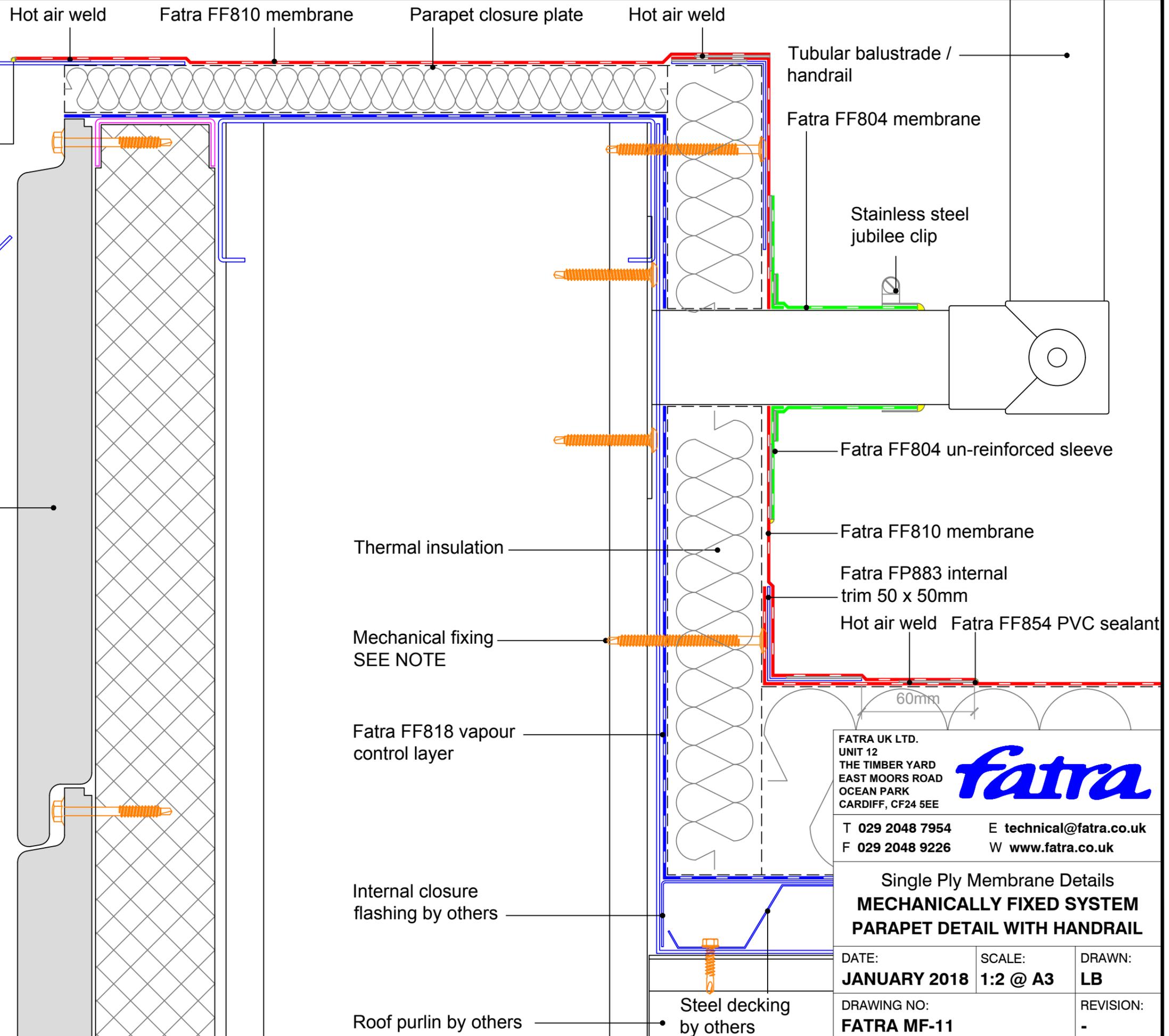
After the membrane sleeve has been dressed around the rail, the bracket and vertical rail can be installed.

**MECHANICAL FIXINGS:-**

Selection of fixings:-

Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



Thermal insulation

Mechanical fixing  
SEE NOTE

Fatra FF818 vapour  
control layer

Internal closure  
flashing by others

Roof purlin by others

Tubular balustrade /  
handrail

Fatra FF804 membrane

Stainless steel  
jubilee clip

Fatra FF804 un-reinforced sleeve

Fatra FF810 membrane

Fatra FP883 internal  
trim 50 x 50mm

Hot air weld Fatra FF854 PVC sealant

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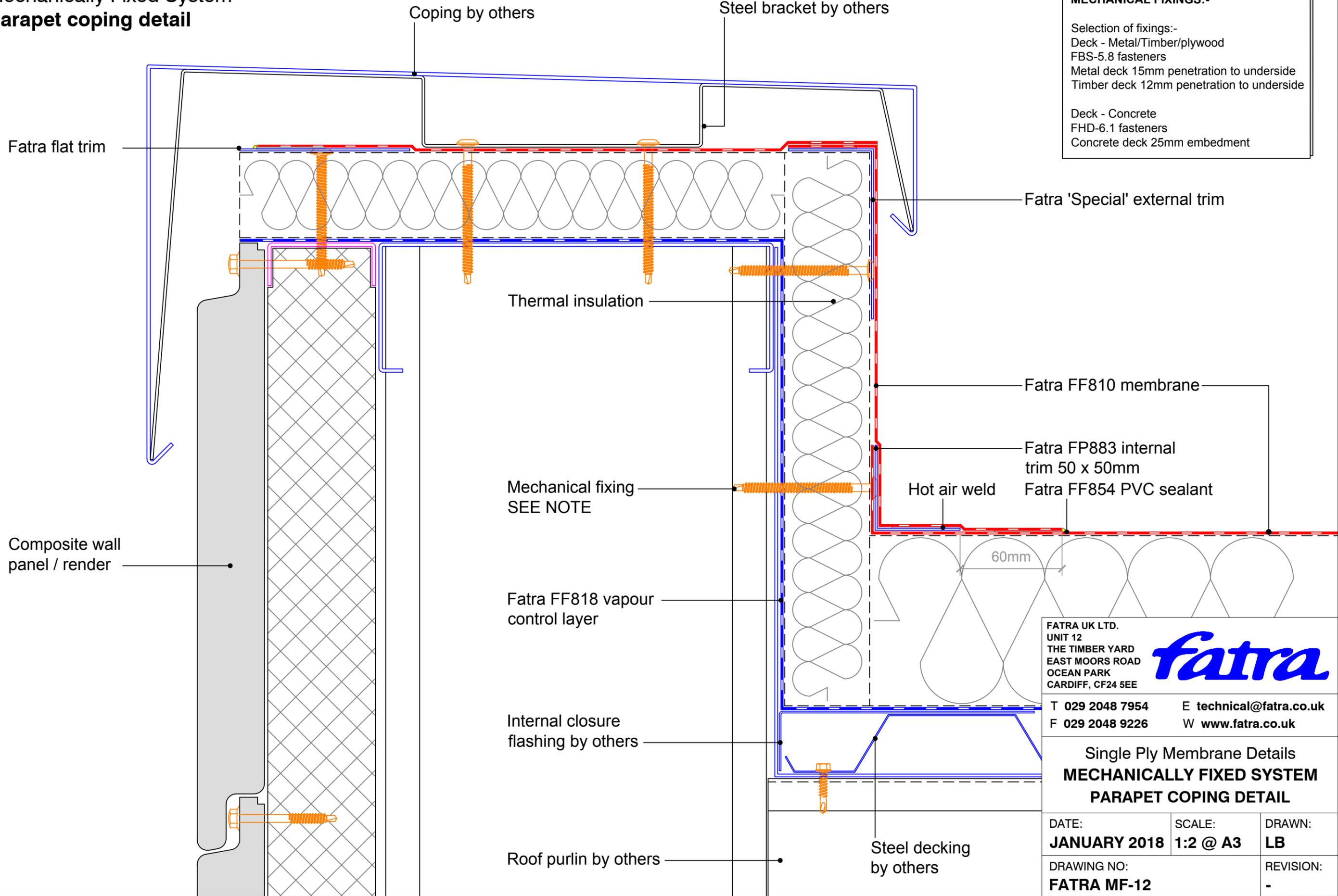
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**PARAPET DETAIL WITH HANDRAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
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DRAWING NO: <b>FATRA MF-11</b>	REVISION: <b>-</b>
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**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Parapet coping detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**PARAPET COPING DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-12</b>		REVISION: <b>-</b>

# Single Ply Membrane Details

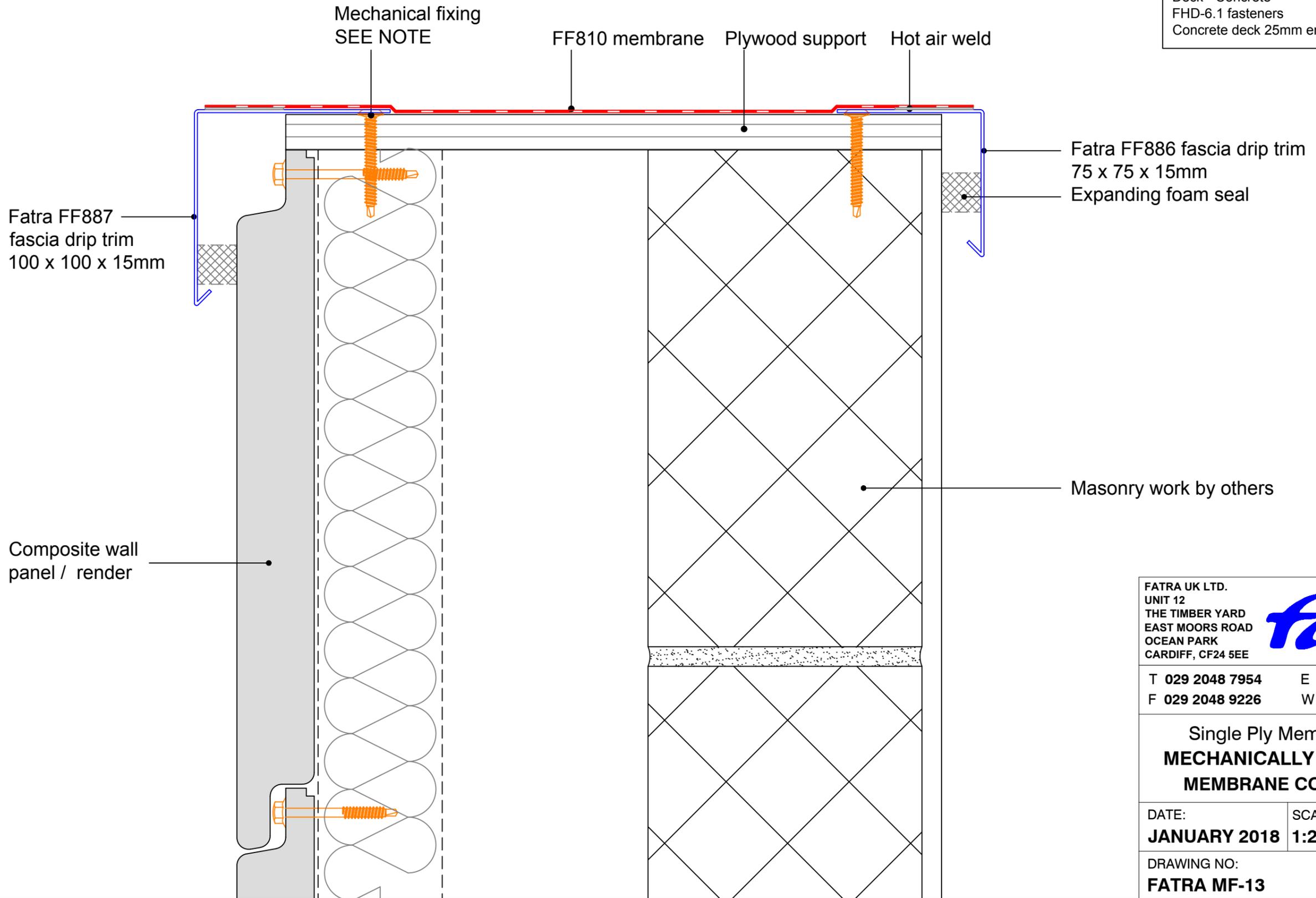
Mechanically Fixed system

## Membrane coping detail

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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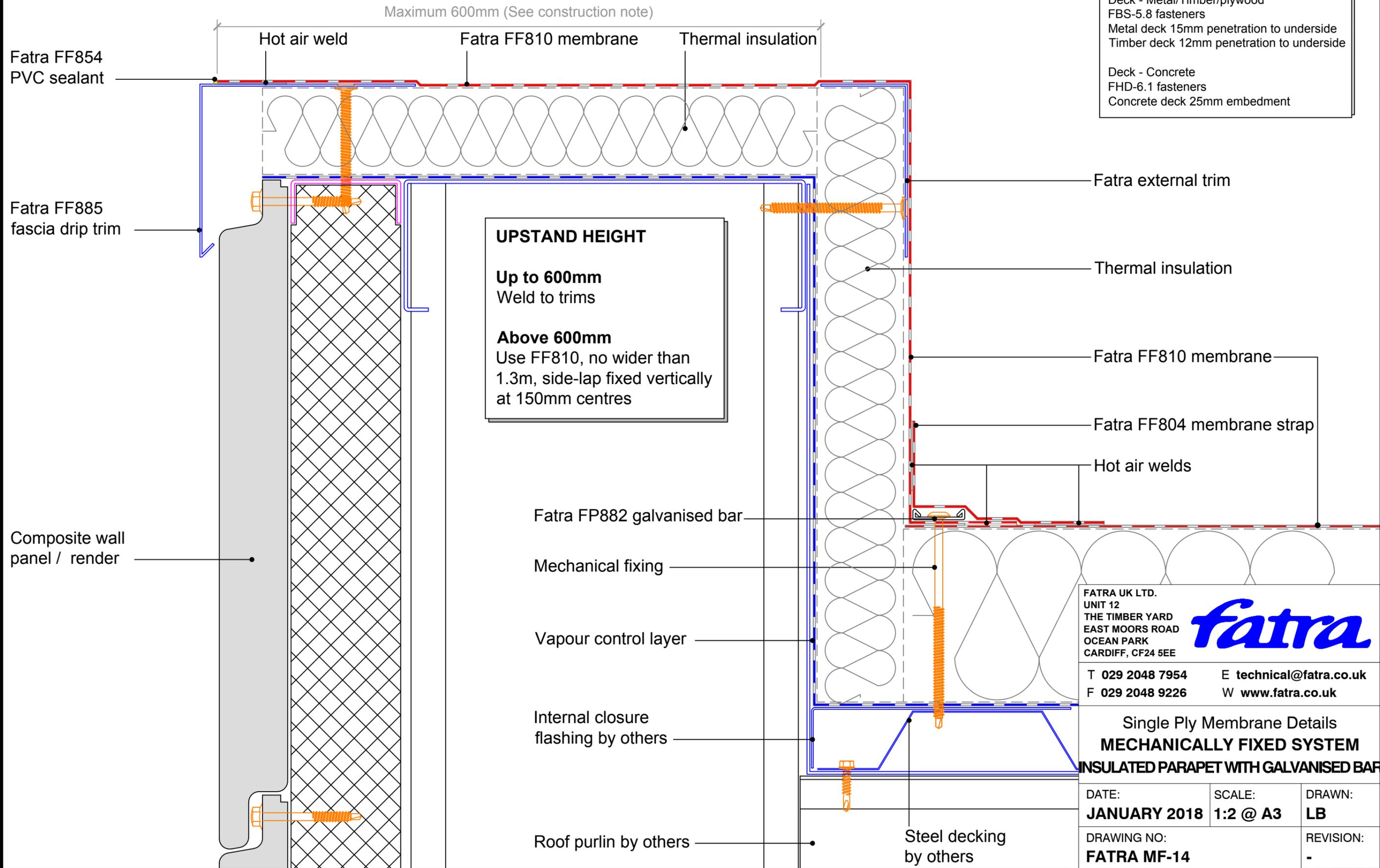
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**MEMBRANE COPING DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
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DRAWING NO: <b>FATRA MF-13</b>	REVISION: -
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**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Insulated parapet with galvanised bar**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

**UPSTAND HEIGHT**

**Up to 600mm**  
 Weld to trims

**Above 600mm**  
 Use FF810, no wider than 1.3m, side-lap fixed vertically at 150mm centres

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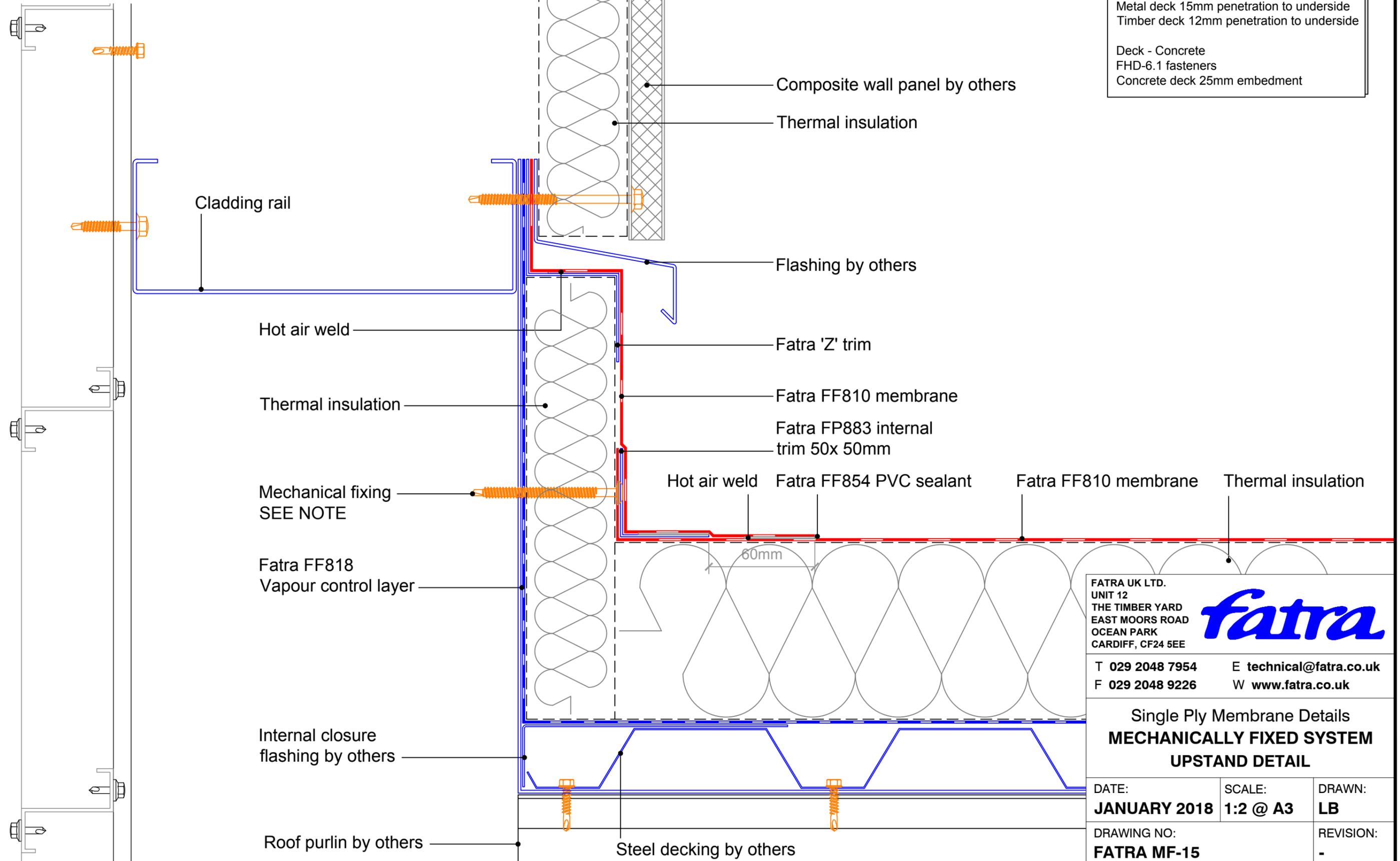
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**INSULATED PARAPET WITH GALVANISED BAR**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-14</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Upstand detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**UPSTAND DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-15</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Chase trim detail**

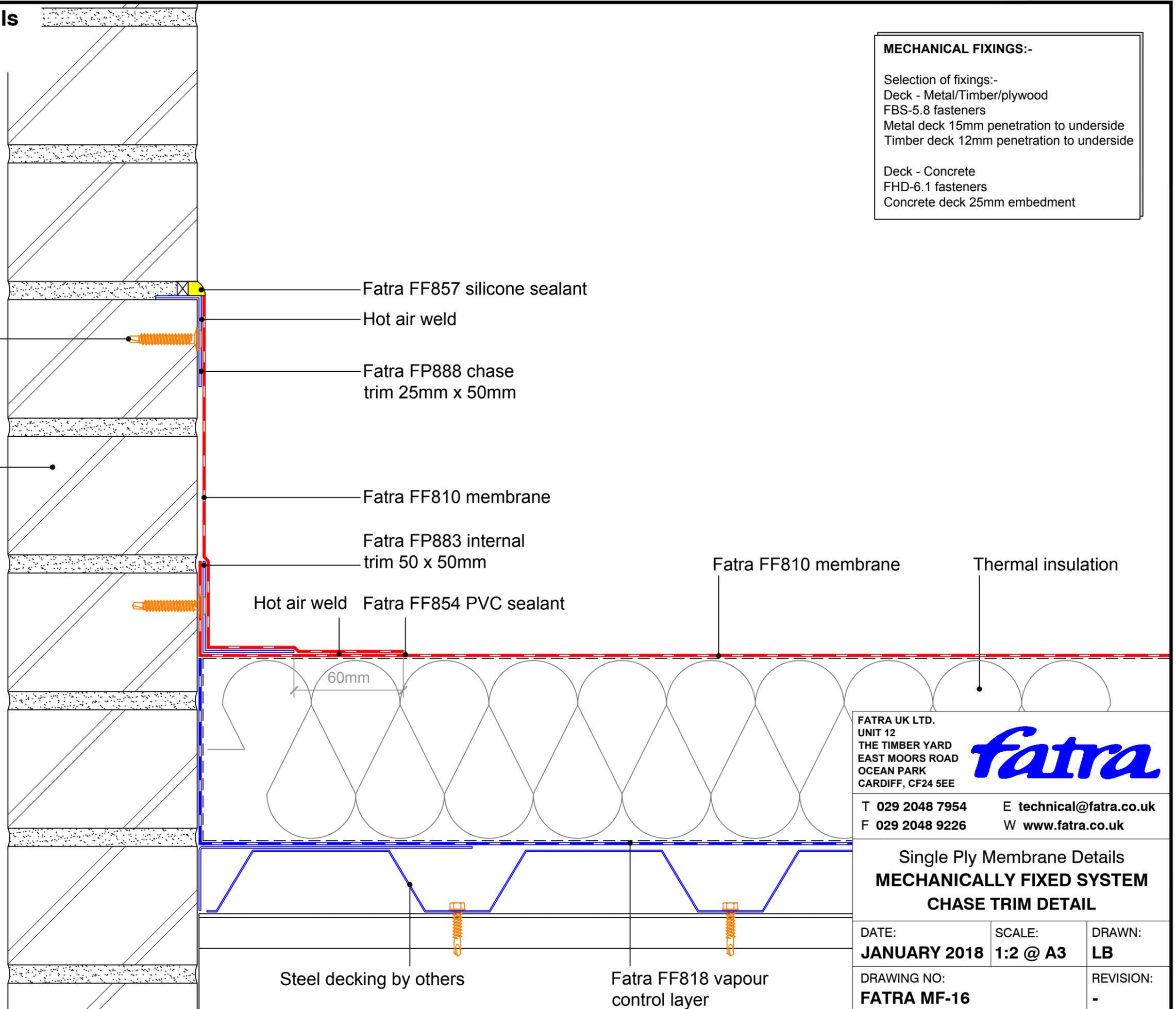
**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

Mechanical fixing  
 SEE NOTE

Brickwork upstand



Fatra FF857 silicone sealant

Hot air weld

Fatra FP888 chase trim 25mm x 50mm

Fatra FF810 membrane

Fatra FP883 internal trim 50 x 50mm

Fatra FF810 membrane

Thermal insulation

Hot air weld Fatra FF854 PVC sealant

60mm

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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**CHASE TRIM DETAIL**

DATE:  
**JANUARY 2018**

SCALE:  
**1:2 @ A3**

DRAWN:  
**LB**

DRAWING NO:  
**FATRA MF-16**

REVISION:  
 -

Steel decking by others

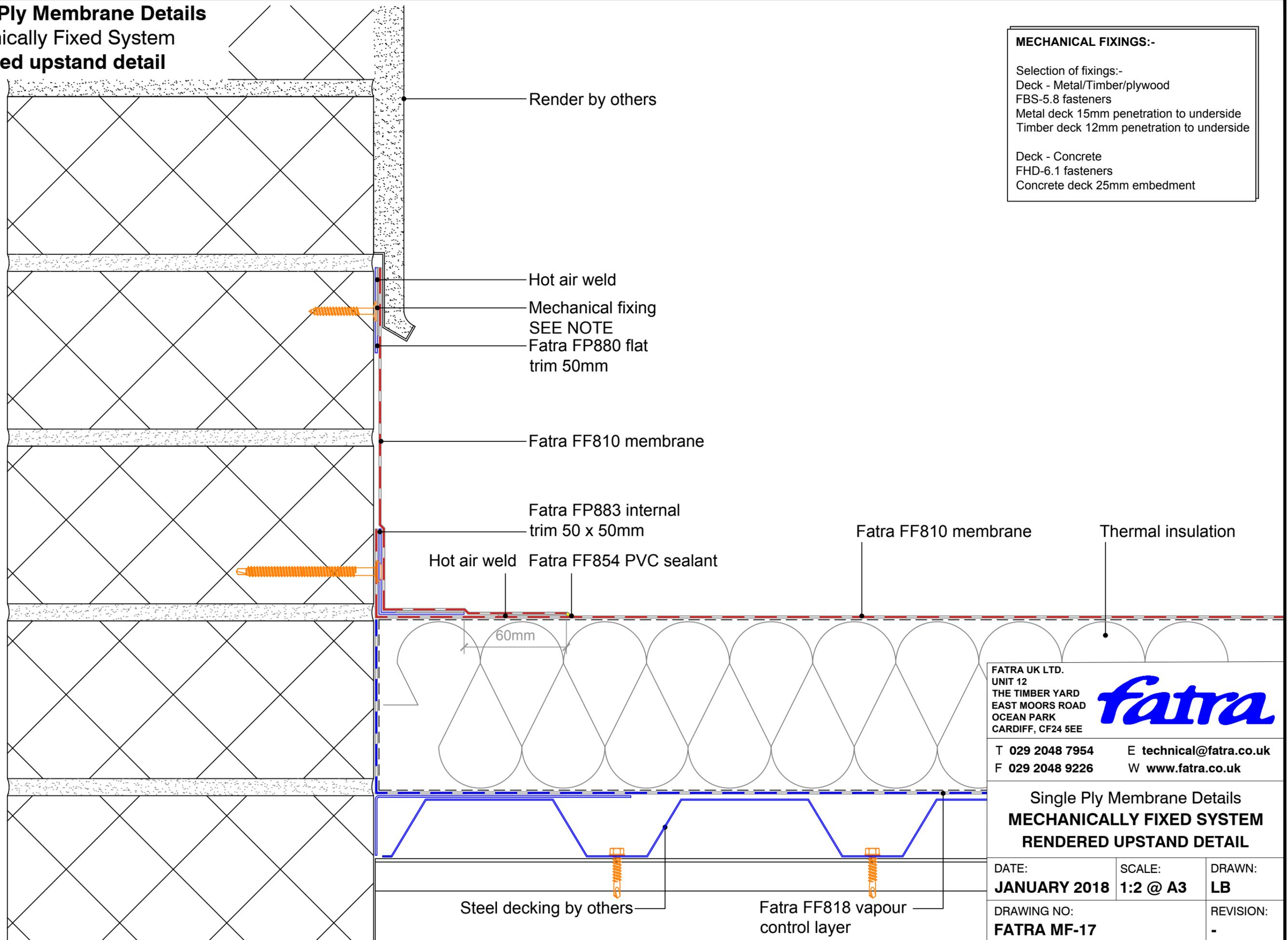
Fatra FF818 vapour control layer

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Rendered upstand detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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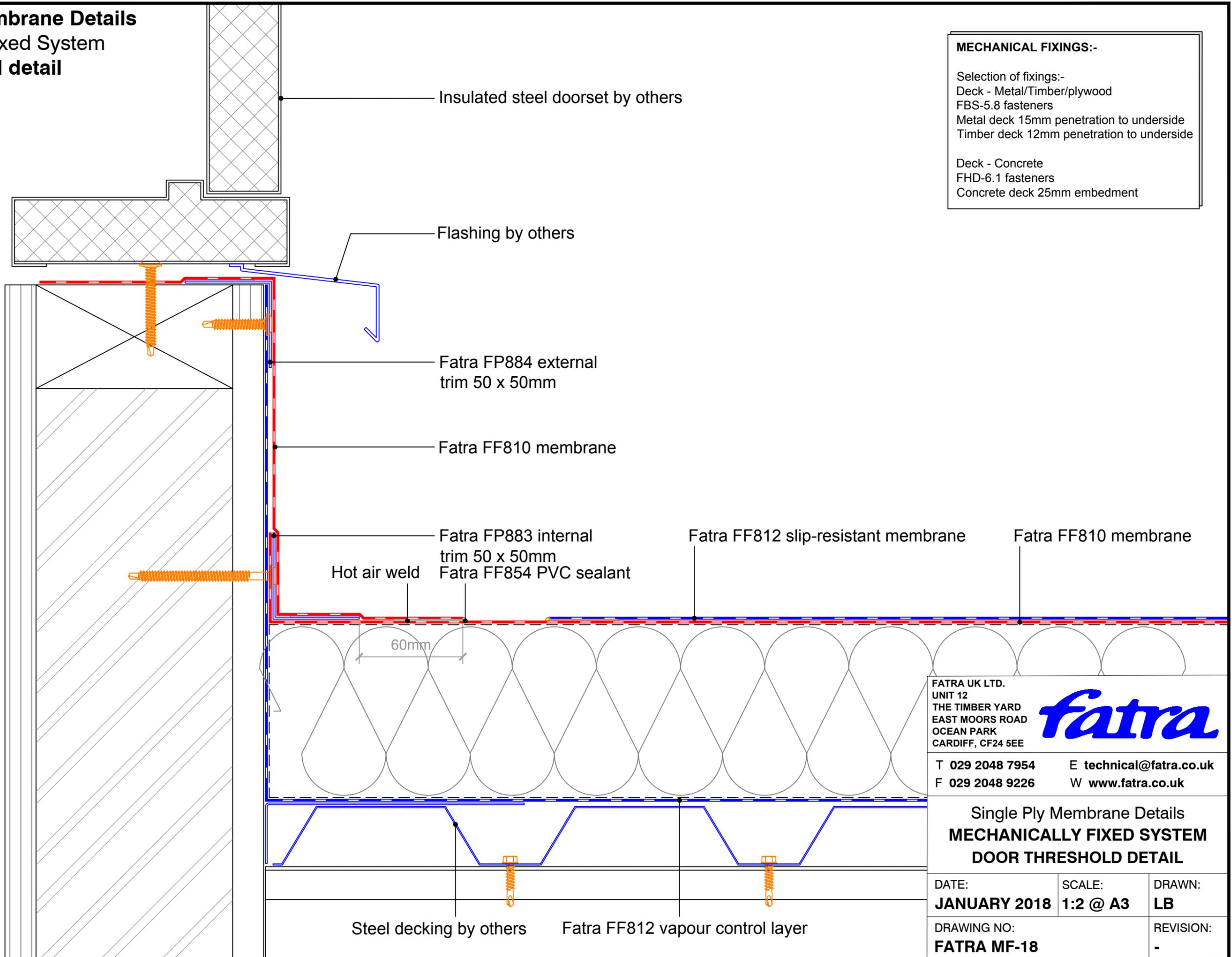


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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**RENDERED UPSTAND DETAIL**

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DRAWING NO: <b>FATRA MF-17</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Door threshold detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**DOOR THRESHOLD DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-18</b>		REVISION: -

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Step / change of height detail**

**UPSTAND HEIGHT**

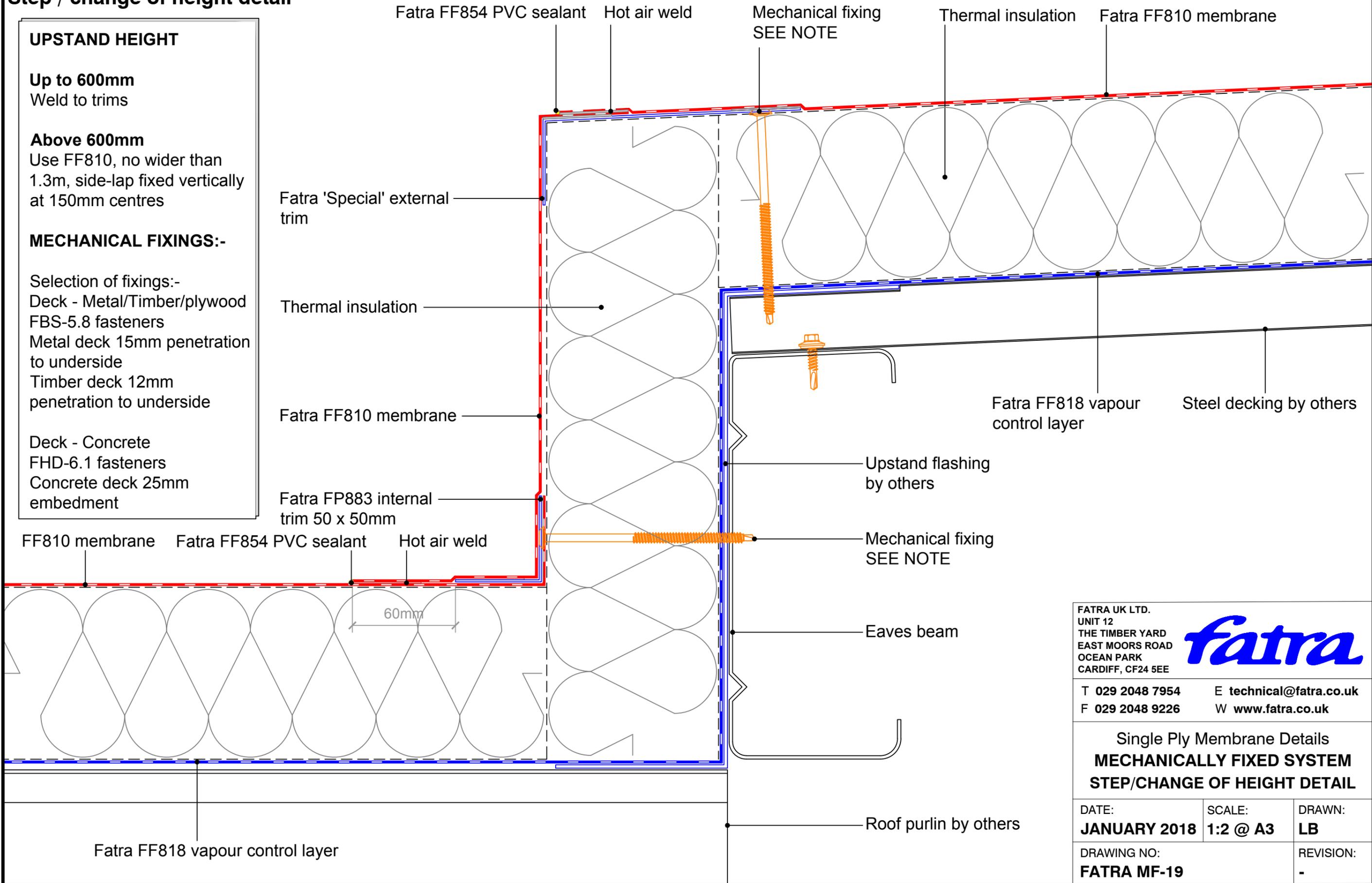
**Up to 600mm**  
Weld to trims

**Above 600mm**  
Use FF810, no wider than 1.3m, side-lap fixed vertically at 150mm centres

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
Deck - Metal/Timber/plywood  
FBS-5.8 fasteners  
Metal deck 15mm penetration to underside  
Timber deck 12mm penetration to underside

Deck - Concrete  
FHD-6.1 fasteners  
Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**STEP/CHANGE OF HEIGHT DETAIL**

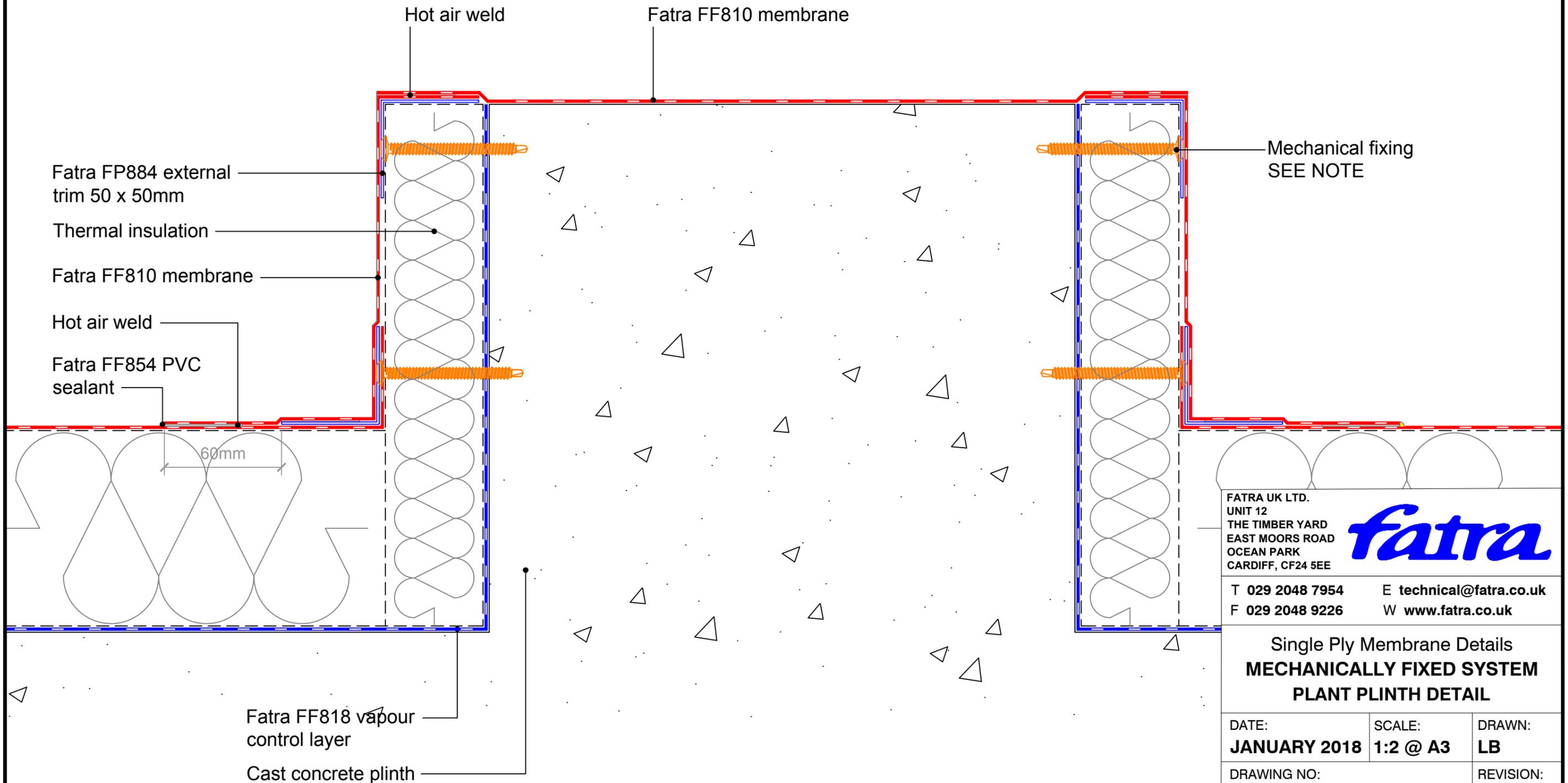
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-19</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Plant plinth detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**PLANT PLINTH DETAIL**

DATE:  
**JANUARY 2018**

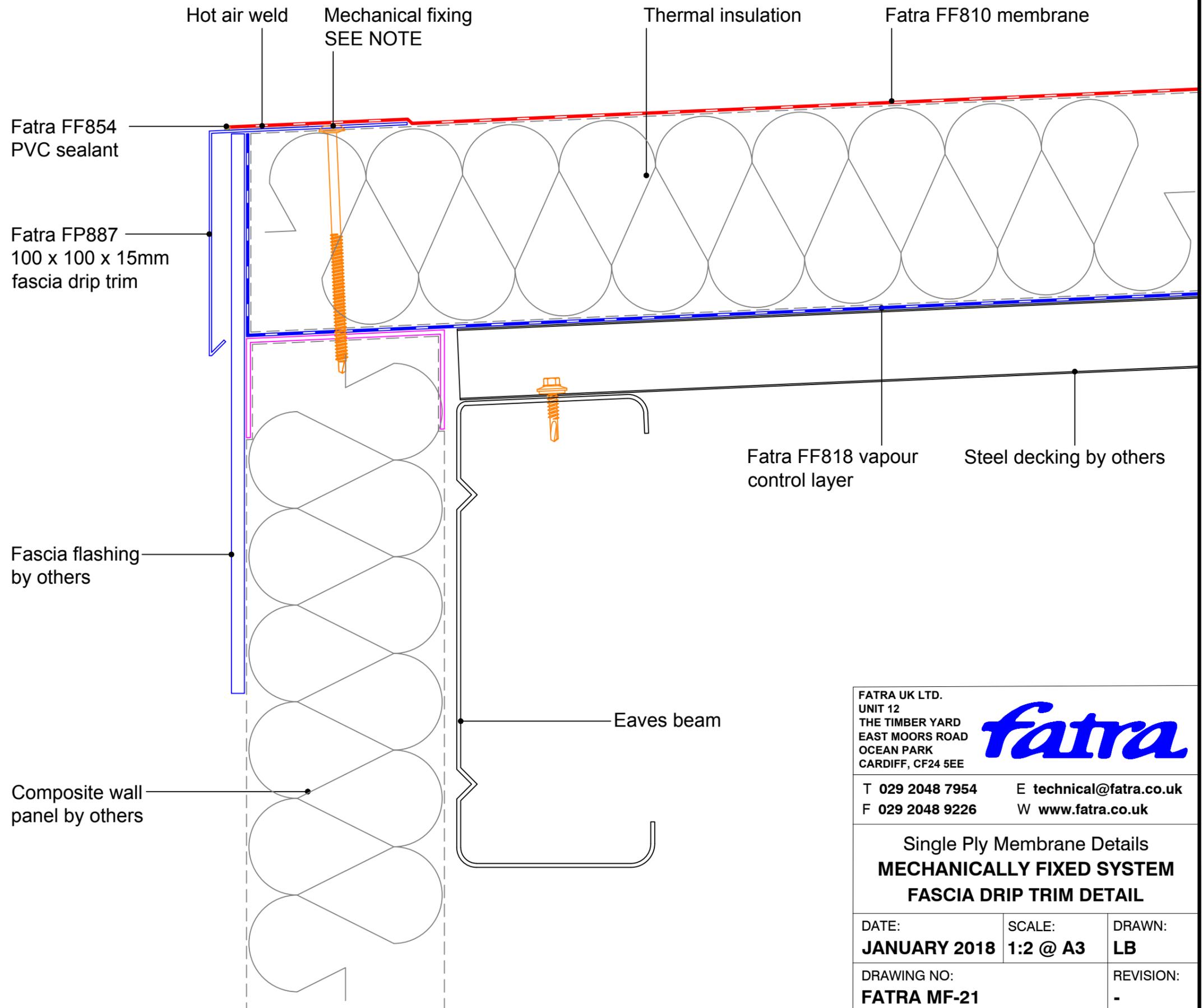
SCALE:  
**1:2 @ A3**

DRAWN:  
**LB**

DRAWING NO:  
**FATRA MF-20**

REVISION:  
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**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Fascia drip trim detail**



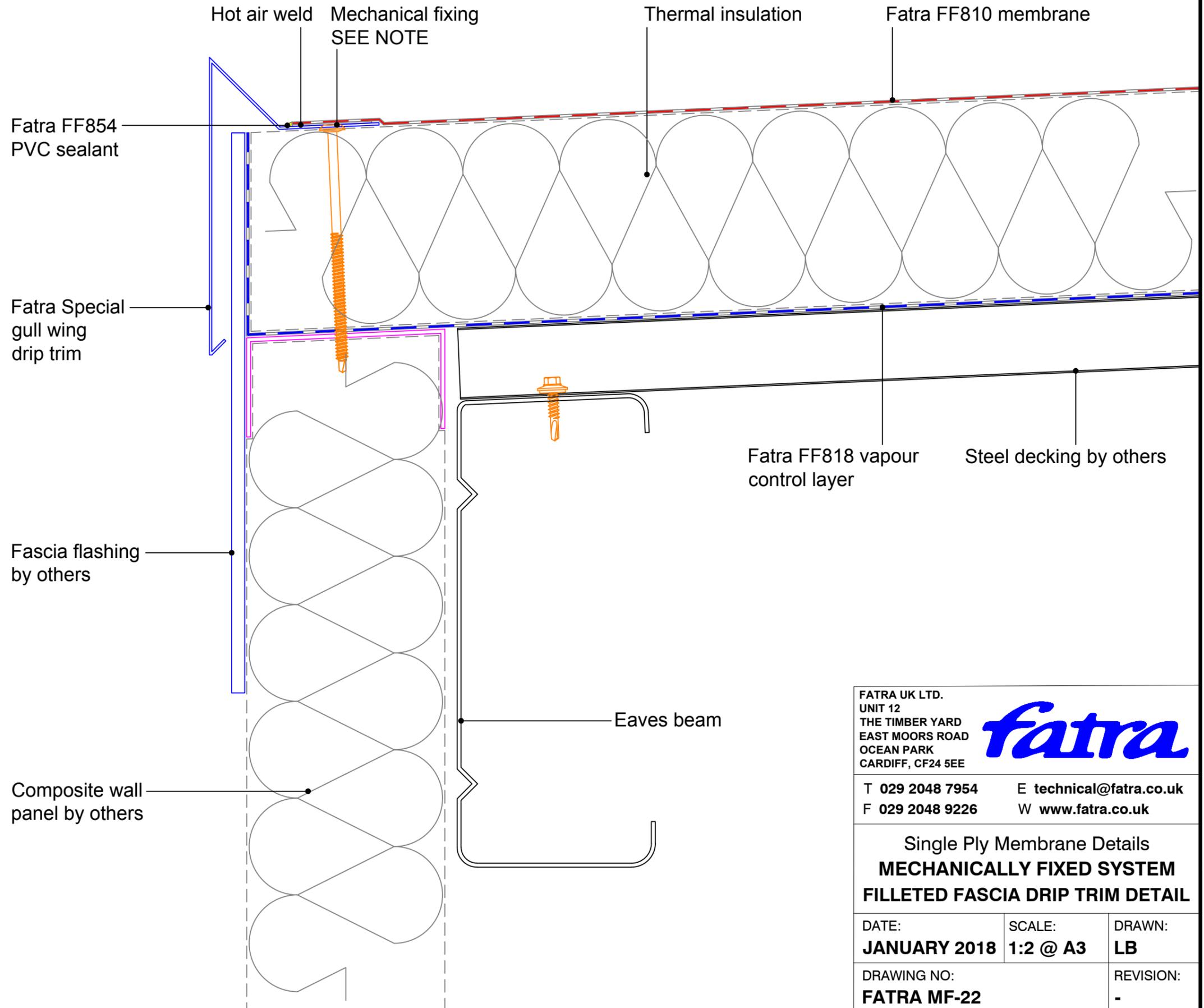
**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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Single Ply Membrane Details <b>MECHANICALLY FIXED SYSTEM</b> <b>FASCIA DRIP TRIM DETAIL</b>		
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-21</b>		REVISION: -

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Filleted fascia drip trim detail**



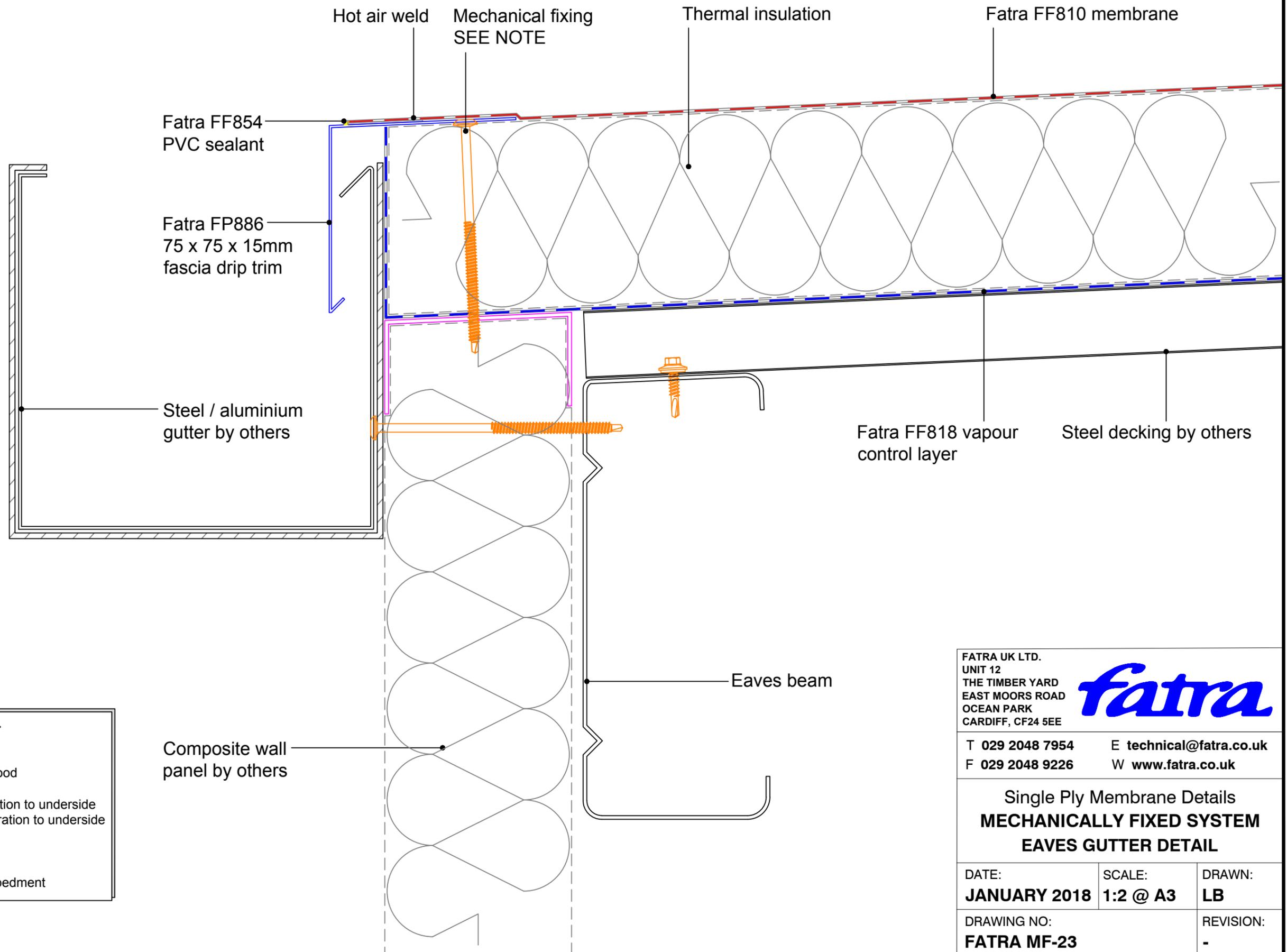
**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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Single Ply Membrane Details <b>MECHANICALLY FIXED SYSTEM</b> <b>FILLETED FASCIA DRIP TRIM DETAIL</b>		
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-22</b>		REVISION: -

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Eaves gutter detail**



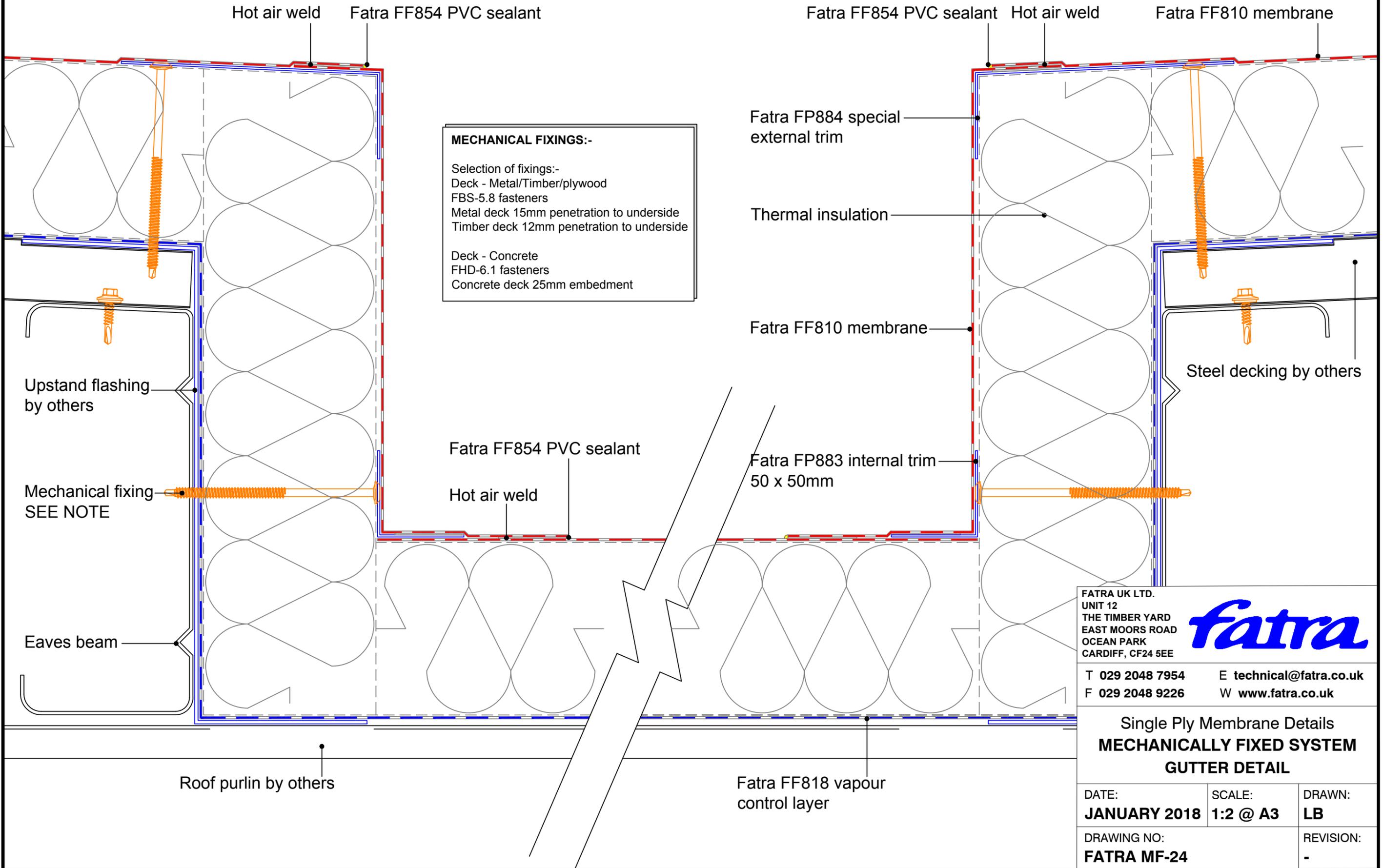
**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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Single Ply Membrane Details <b>MECHANICALLY FIXED SYSTEM</b> <b>EAVES GUTTER DETAIL</b>		
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-23</b>		REVISION: -

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Gutter detail**



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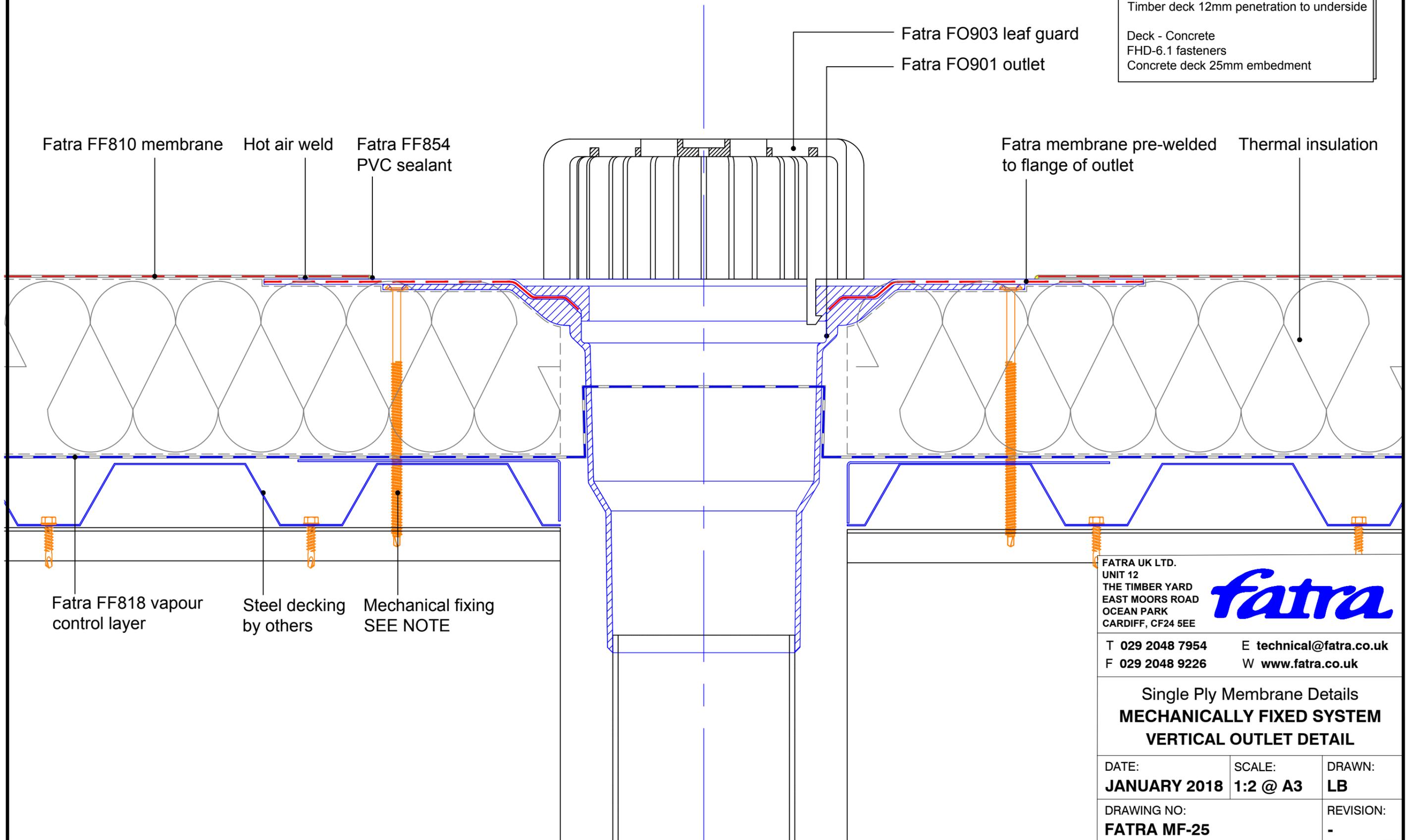
Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**GUTTER DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-24</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Vertical outlet detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside  
  
 Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**VERTICAL OUTLET DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-25</b>		REVISION: <b>-</b>

# Single Ply Membrane Details

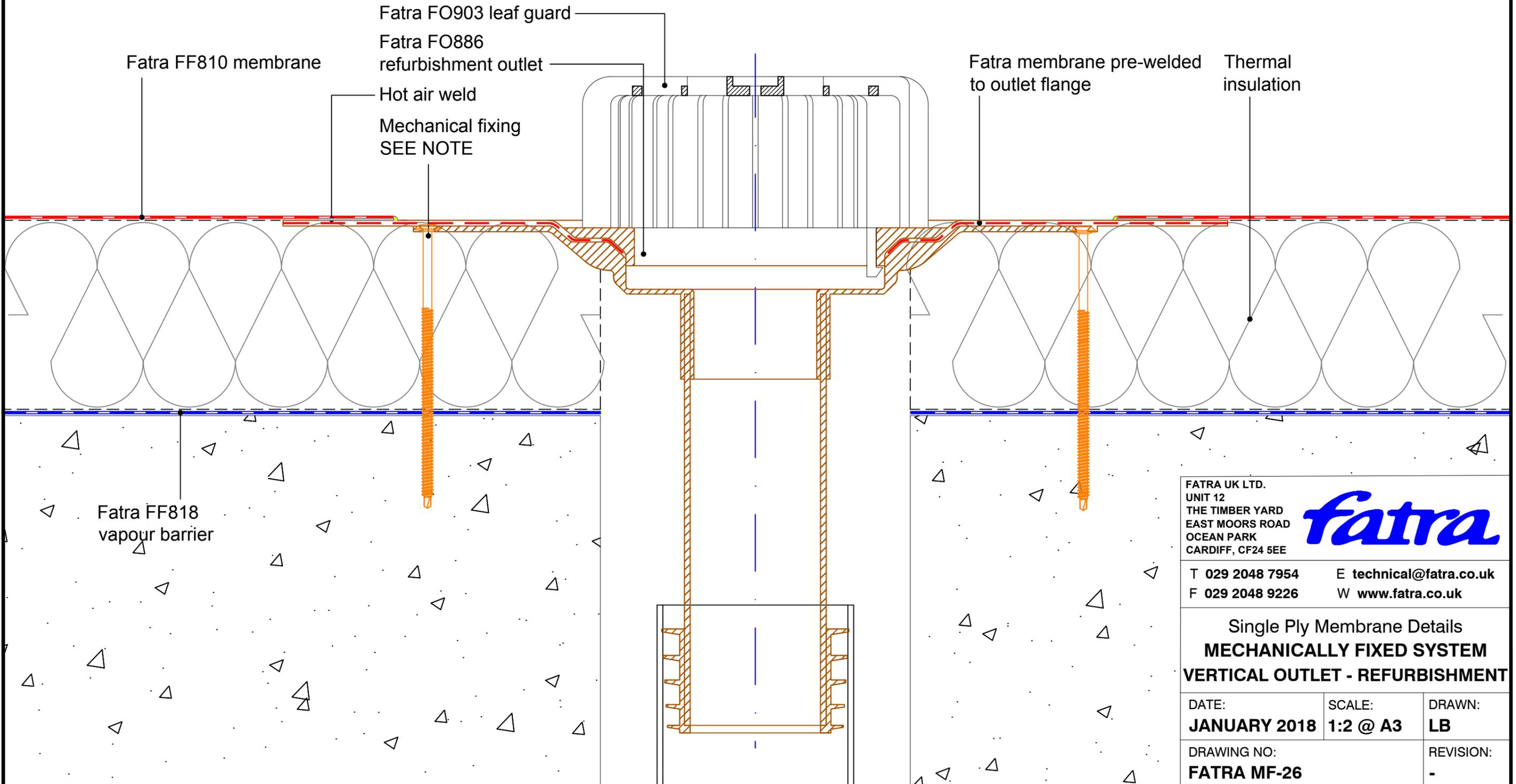
Fully adhered system

## Vertical outlet detail - Refurbishment

### MECHANICAL FIXINGS:-

Selection of fixings:-  
Deck - Metal/Timber/plywood  
FBS-5.8 fasteners  
Metal deck 15mm penetration to underside  
Timber deck 12mm penetration to underside

Deck - Concrete  
FHD-6.1 fasteners  
Concrete deck 25mm embedment



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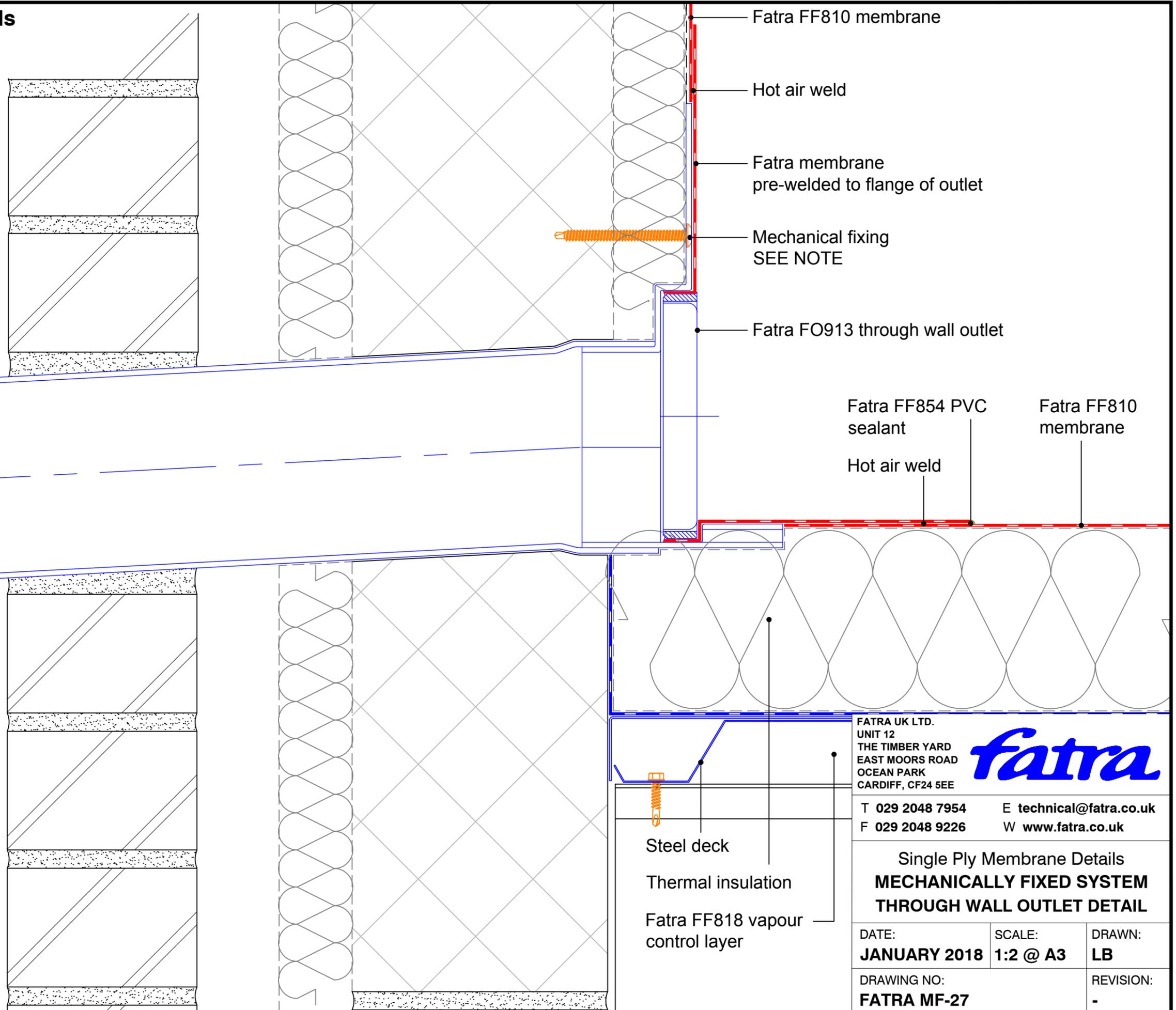
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**VERTICAL OUTLET - REFURBISHMENT**

DATE: **JANUARY 2018** SCALE: **1:2 @ A3** DRAWN: **LB**

DRAWING NO: **FATRA MF-26** REVISION: **-**

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Through wall outlet detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

**CONSTRUCTION NOTE:-**

Horizontal outlets require the deck/insulation to be recessed for a flush finish

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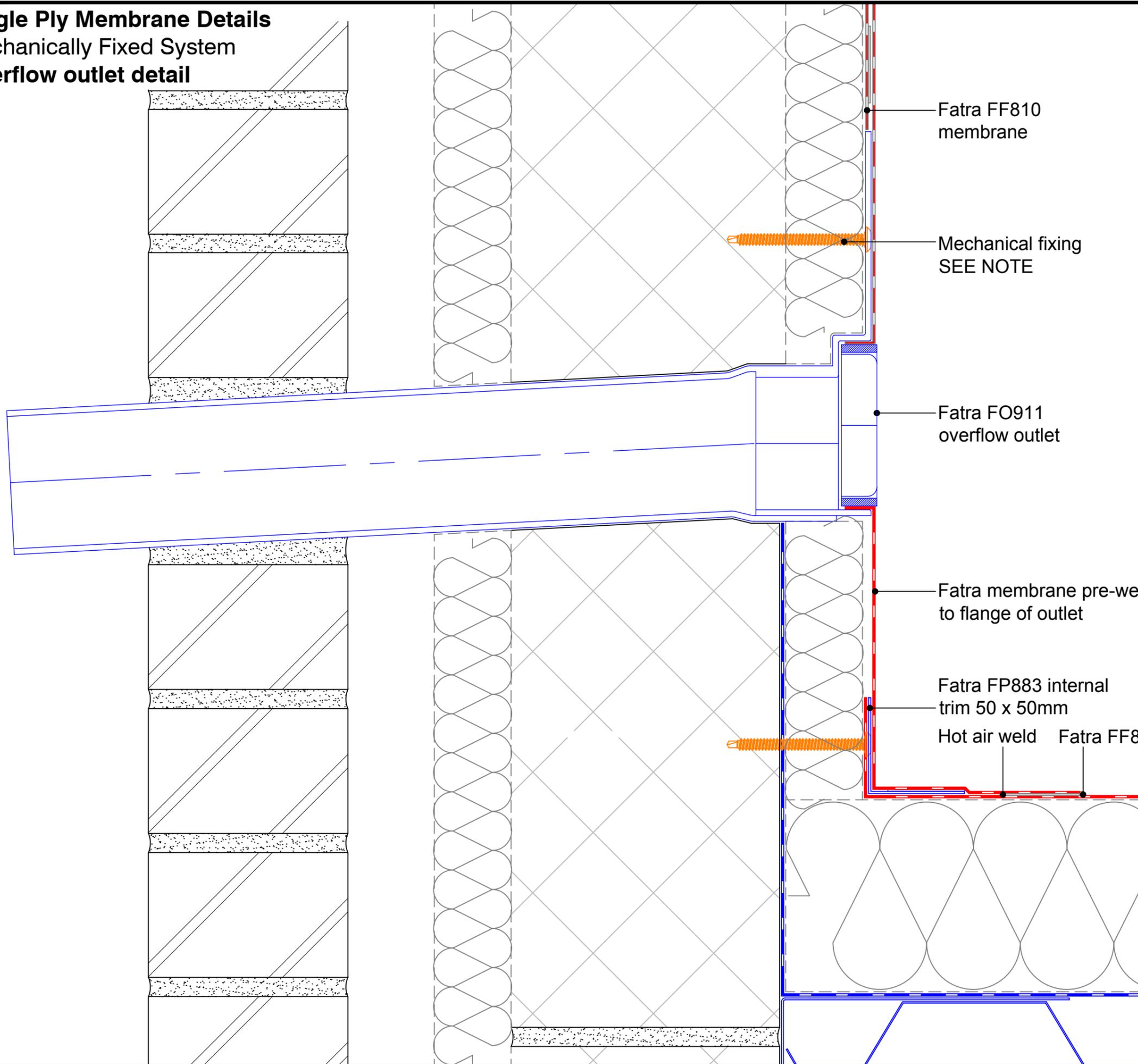


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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**THROUGH WALL OUTLET DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-27</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Overflow outlet detail**



**MECHANICAL FIXINGS:-**

- Selection of fixings:-
- Deck - Metal/Timber/plywood  
FBS-5.8 fasteners
- Metal deck 15mm penetration to underside
- Timber deck 12mm penetration to underside
  
- Deck - Concrete
- FHD-6.1 fasteners
- Concrete deck 25mm embedment

Fatra FF810  
 membrane

Mechanical fixing  
 SEE NOTE

Fatra FO911  
 overflow outlet

Fatra membrane pre-welded  
 to flange of outlet

Fatra FP883 internal  
 trim 50 x 50mm

Hot air weld    Fatra FF854 PVC sealant

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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**OVERFLOW OUTLET DETAIL**

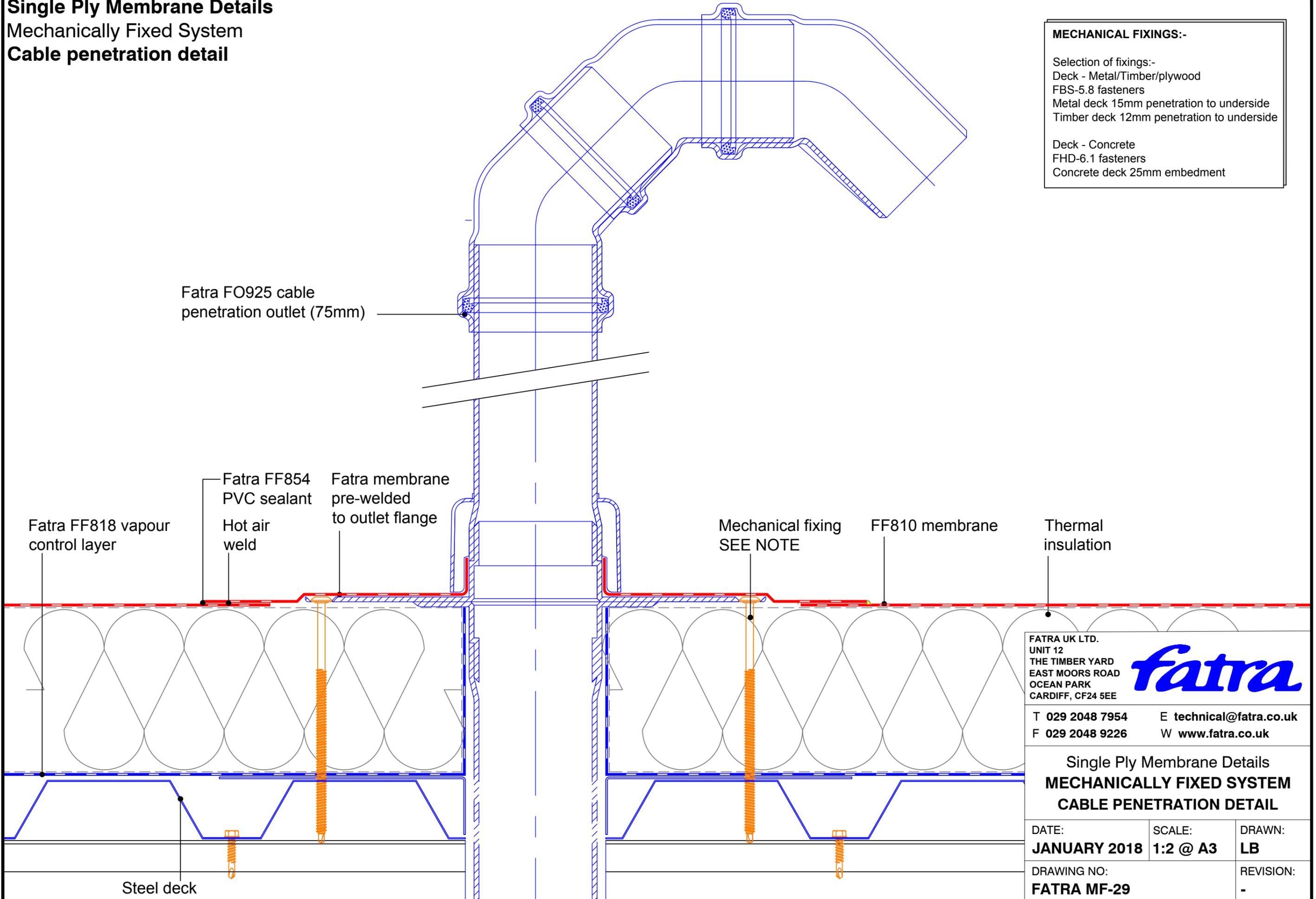
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DRAWING NO: <b>FATRA MF-28</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Cable penetration detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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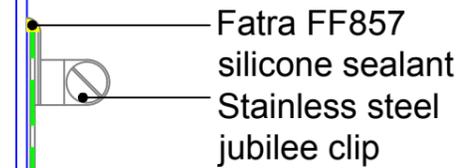
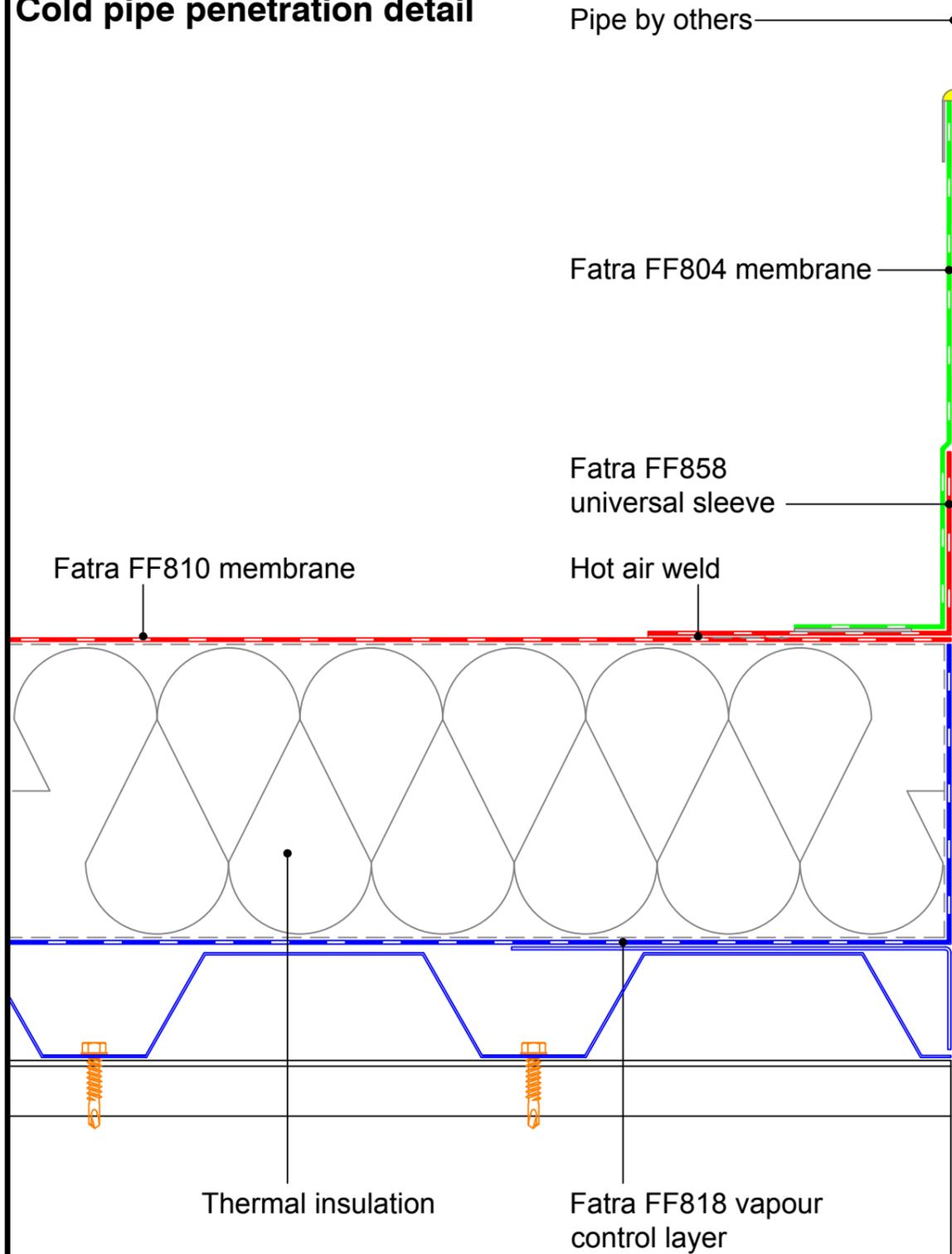


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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**CABLE PENETRATION DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-29</b>		REVISION: <b>-</b>

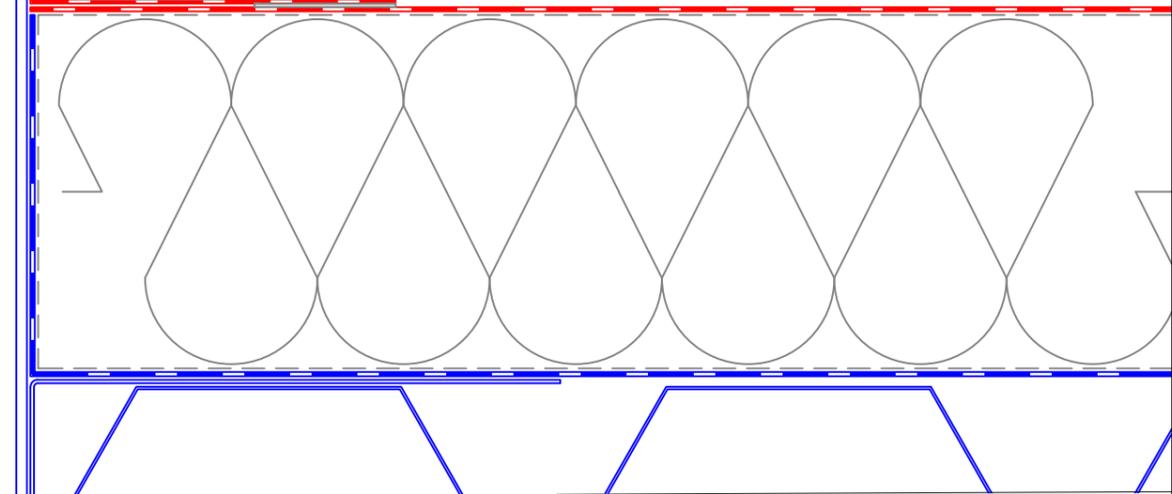
**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Cold pipe penetration detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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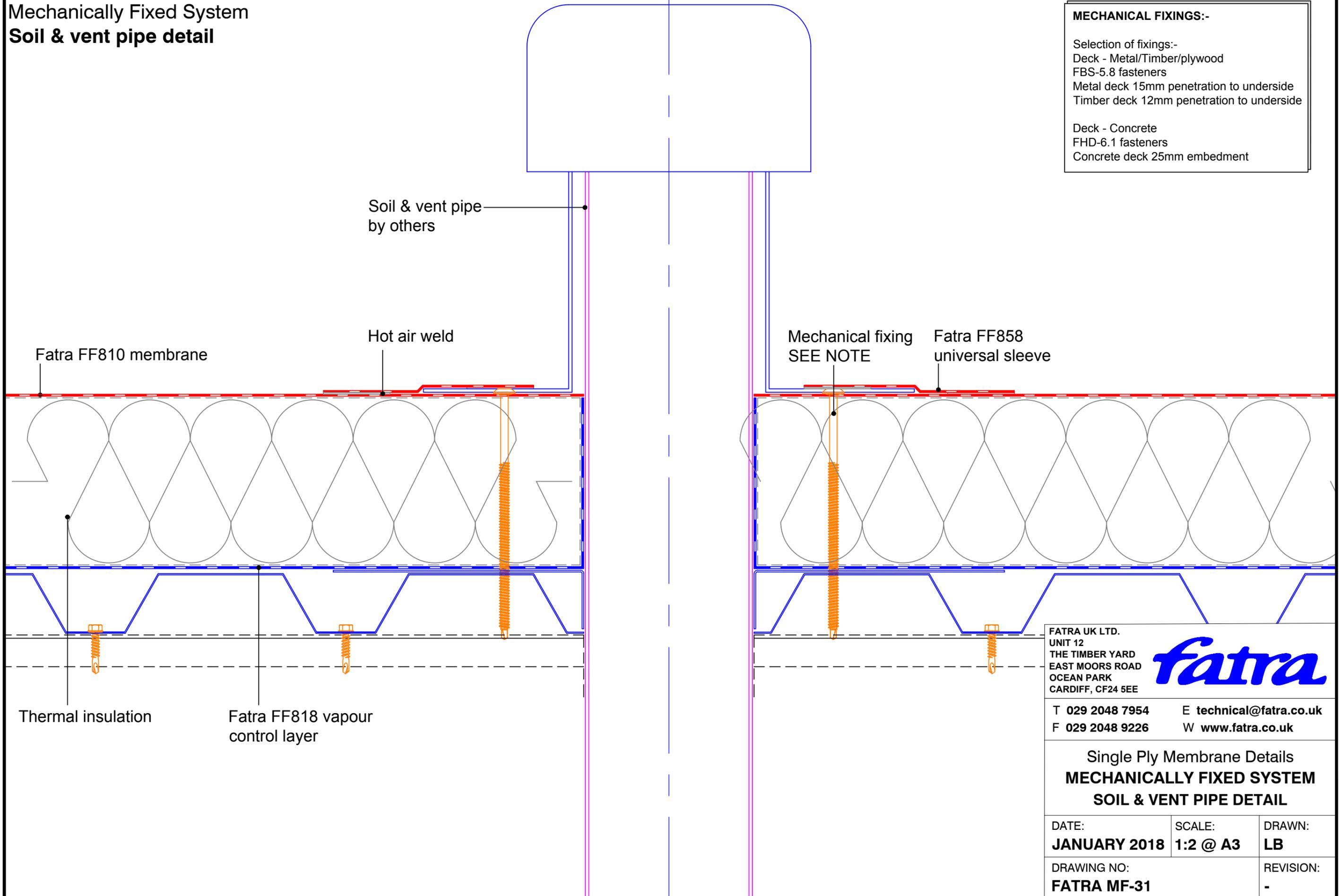
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**COLD PIPE PENETRATION DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-30</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Soil & vent pipe detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

Soil & vent pipe  
by others

Fatra FF810 membrane

Hot air weld

Mechanical fixing  
SEE NOTE

Fatra FF858  
universal sleeve

Thermal insulation

Fatra FF818 vapour  
control layer

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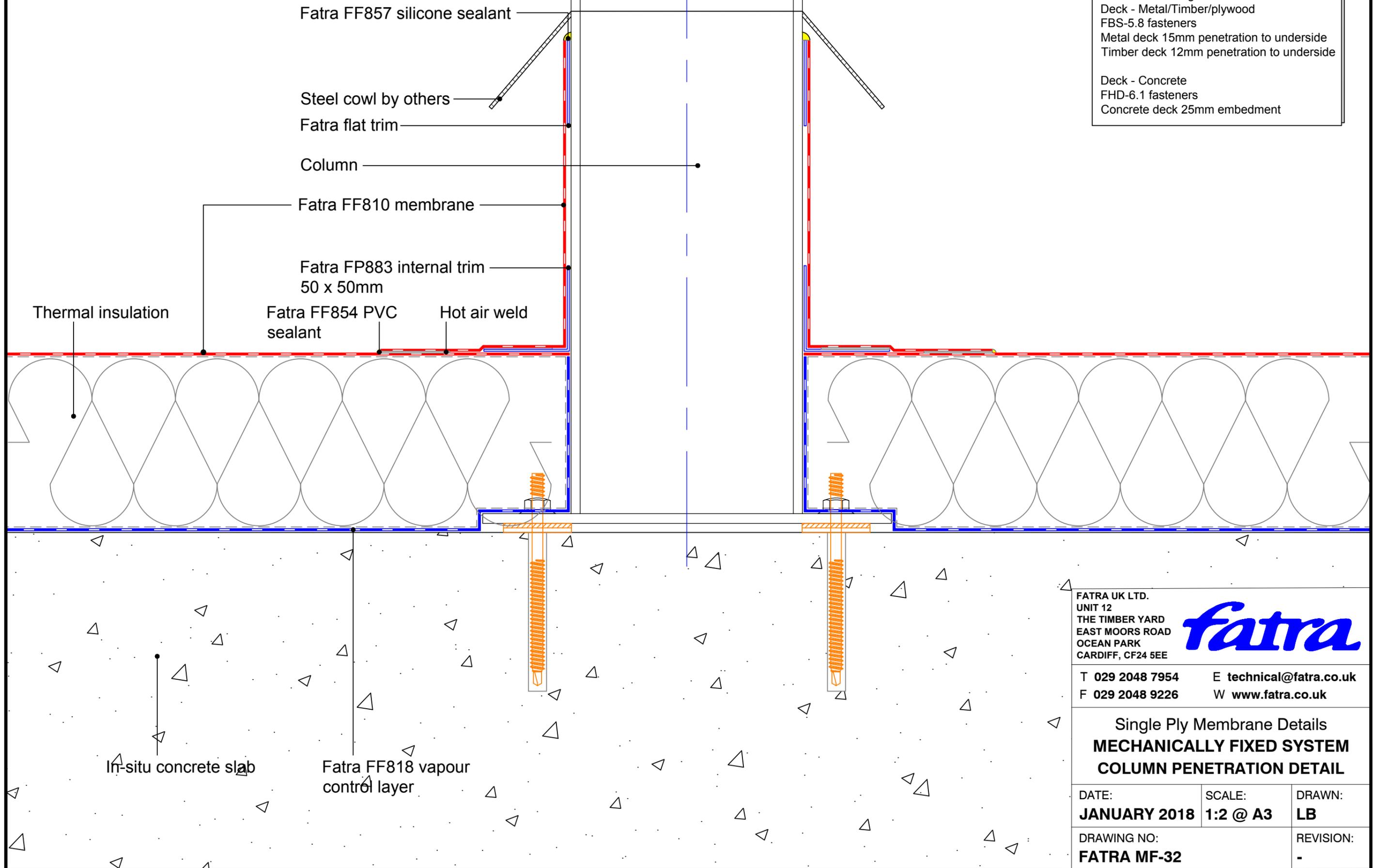


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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SOIL & VENT PIPE DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-31</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Column penetration detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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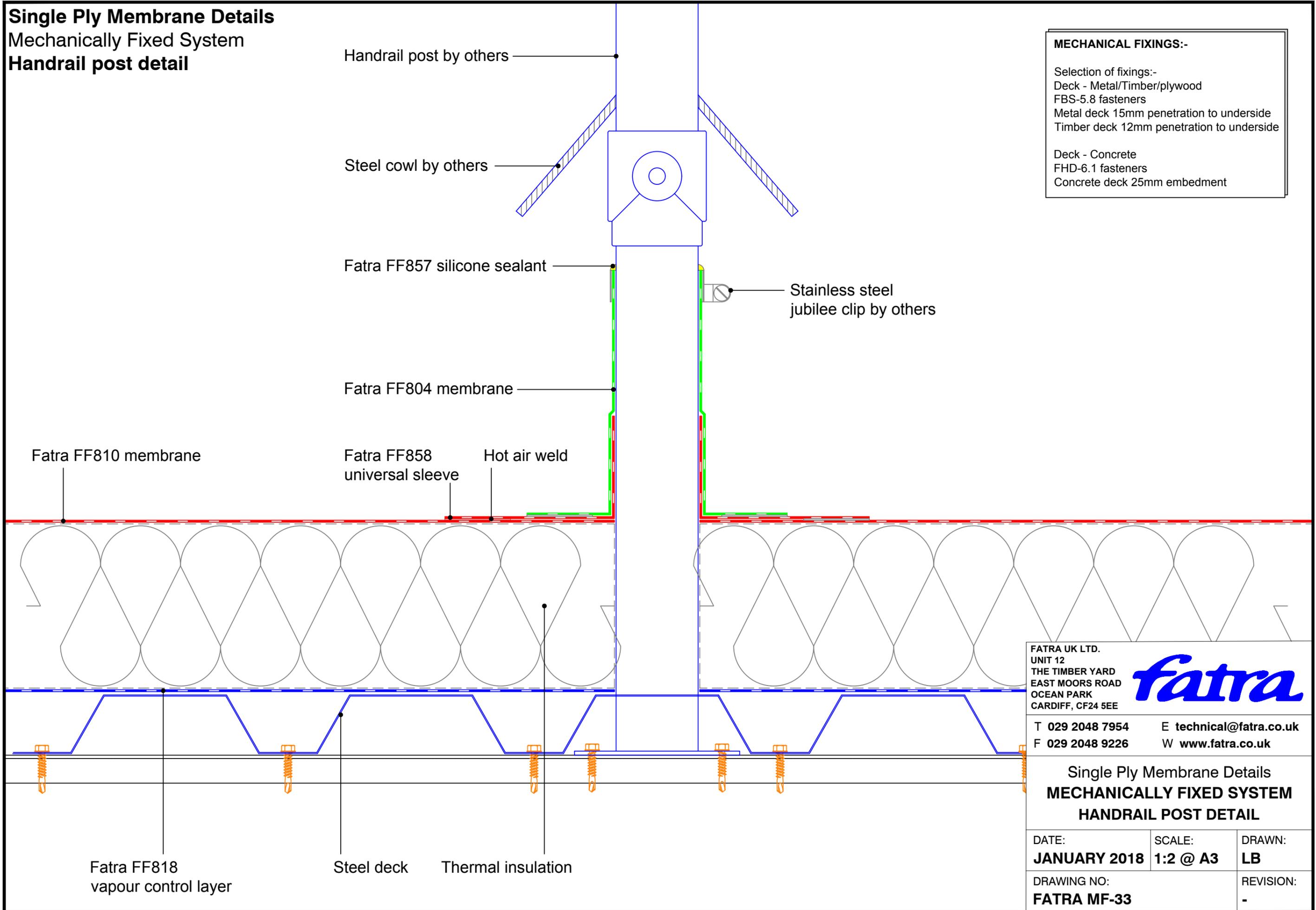
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**COLUMN PENETRATION DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-32</b>		REVISION: -

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Handrail post detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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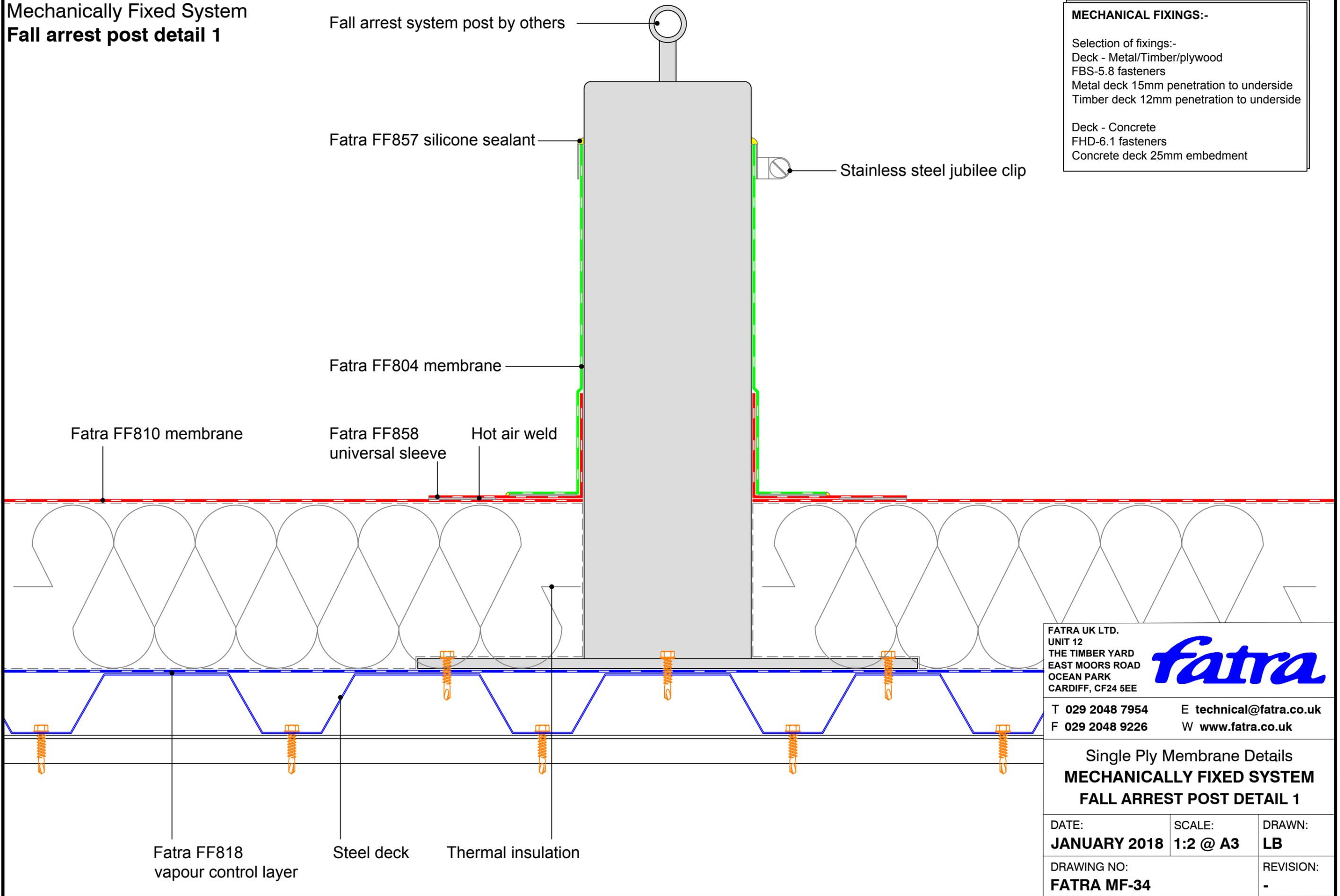
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**HANDRAIL POST DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-33</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Fall arrest post detail 1**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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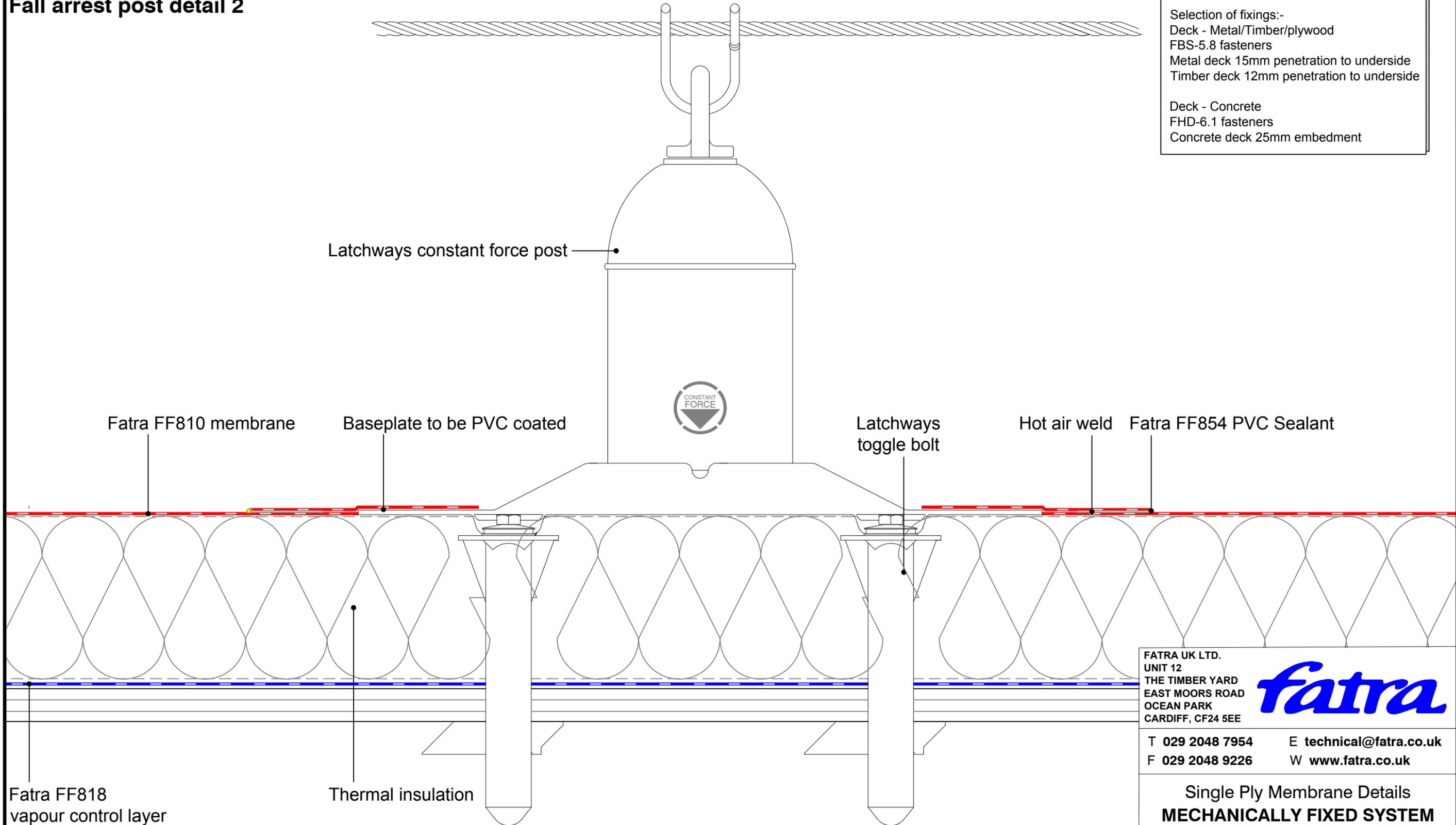
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**FALL ARREST POST DETAIL 1**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-34</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Fall arrest post detail 2**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**FALL ARREST POST DETAIL 2**

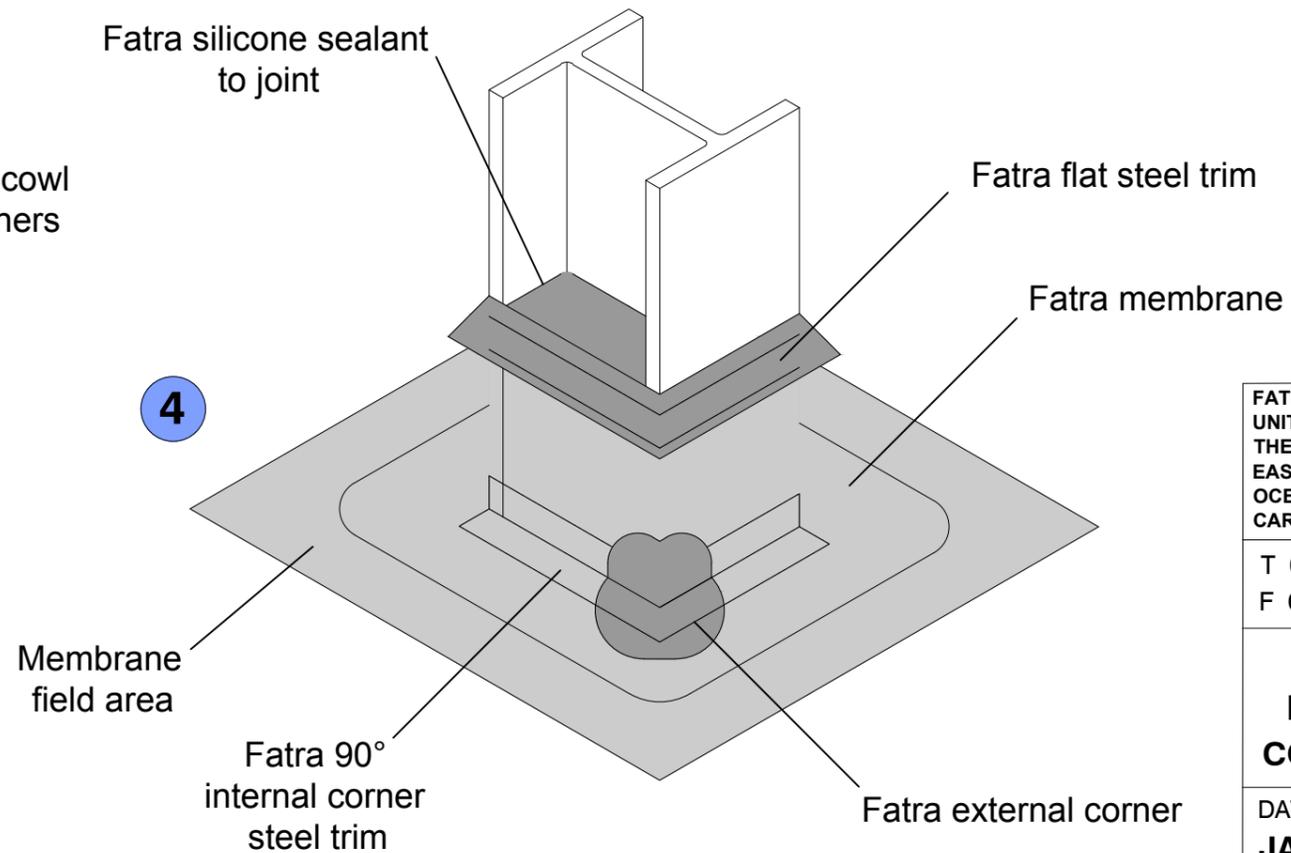
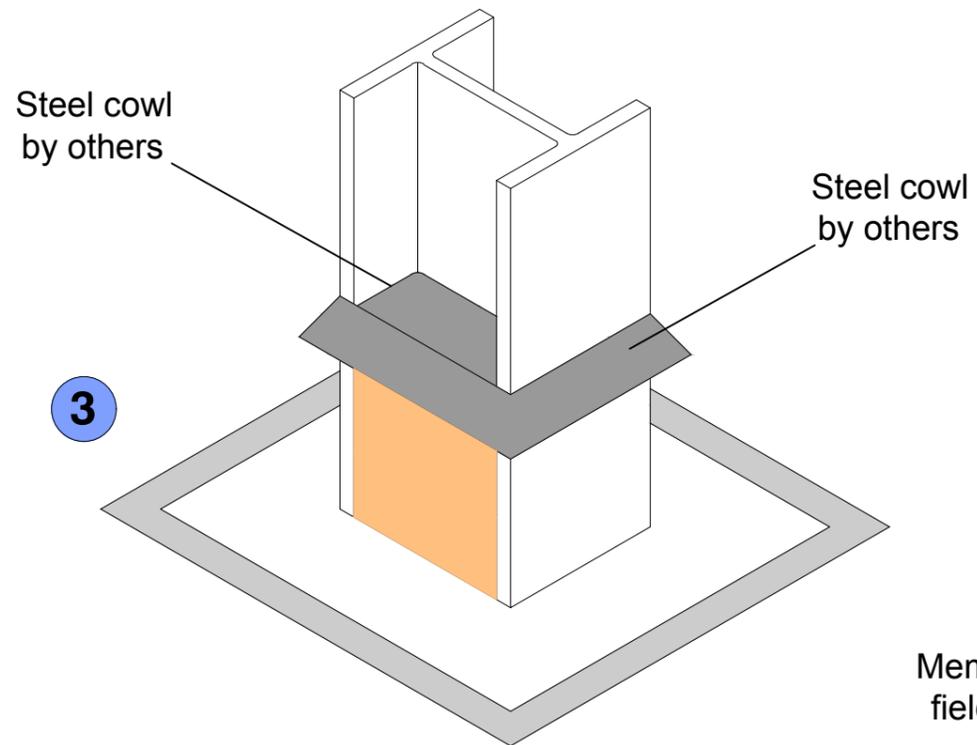
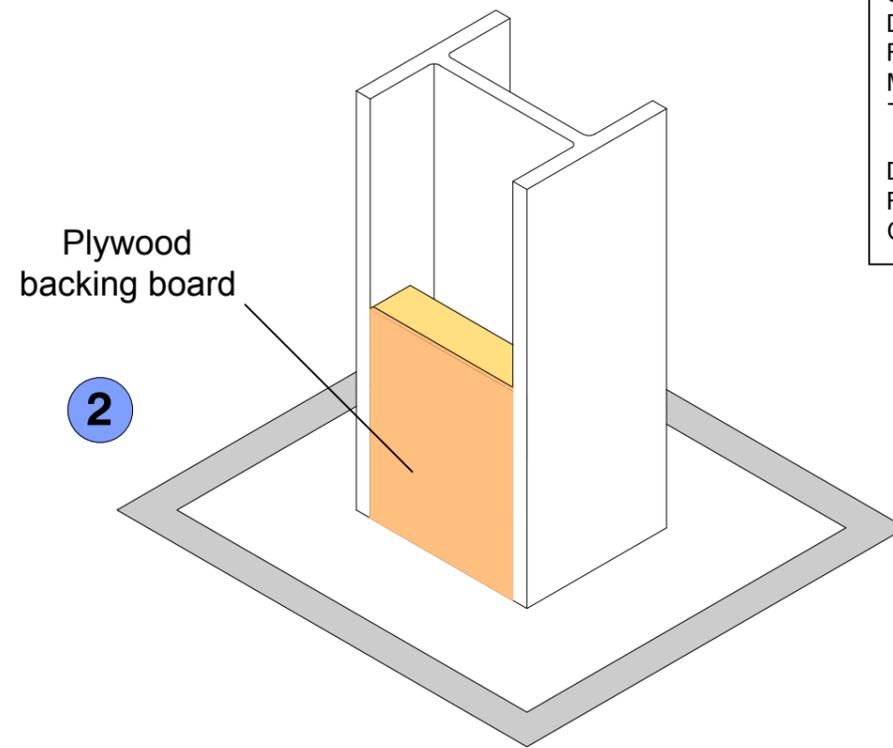
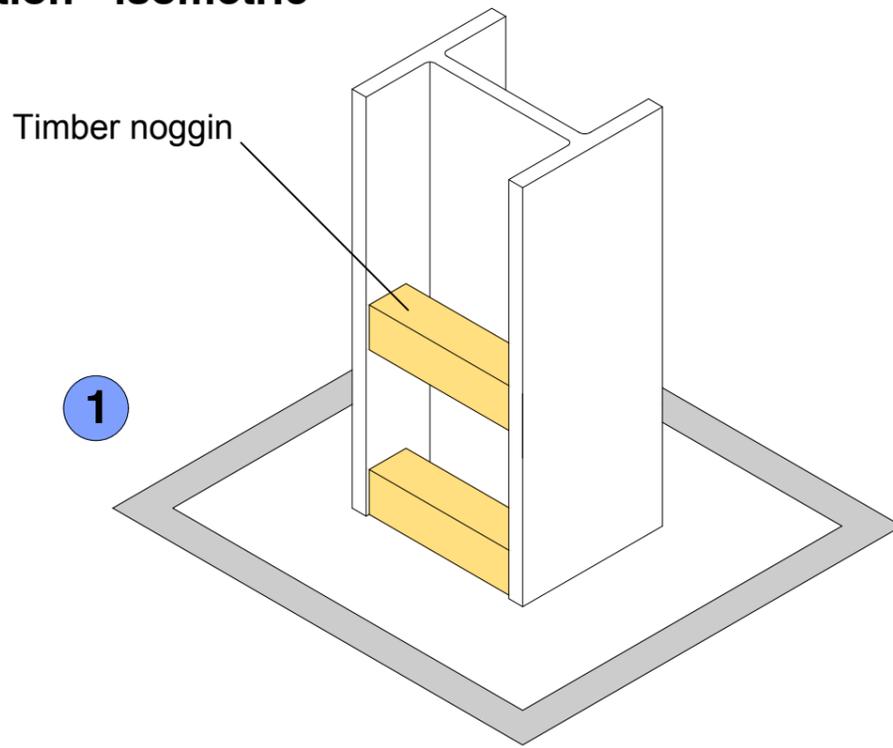
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-35</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Column penetration - isometric**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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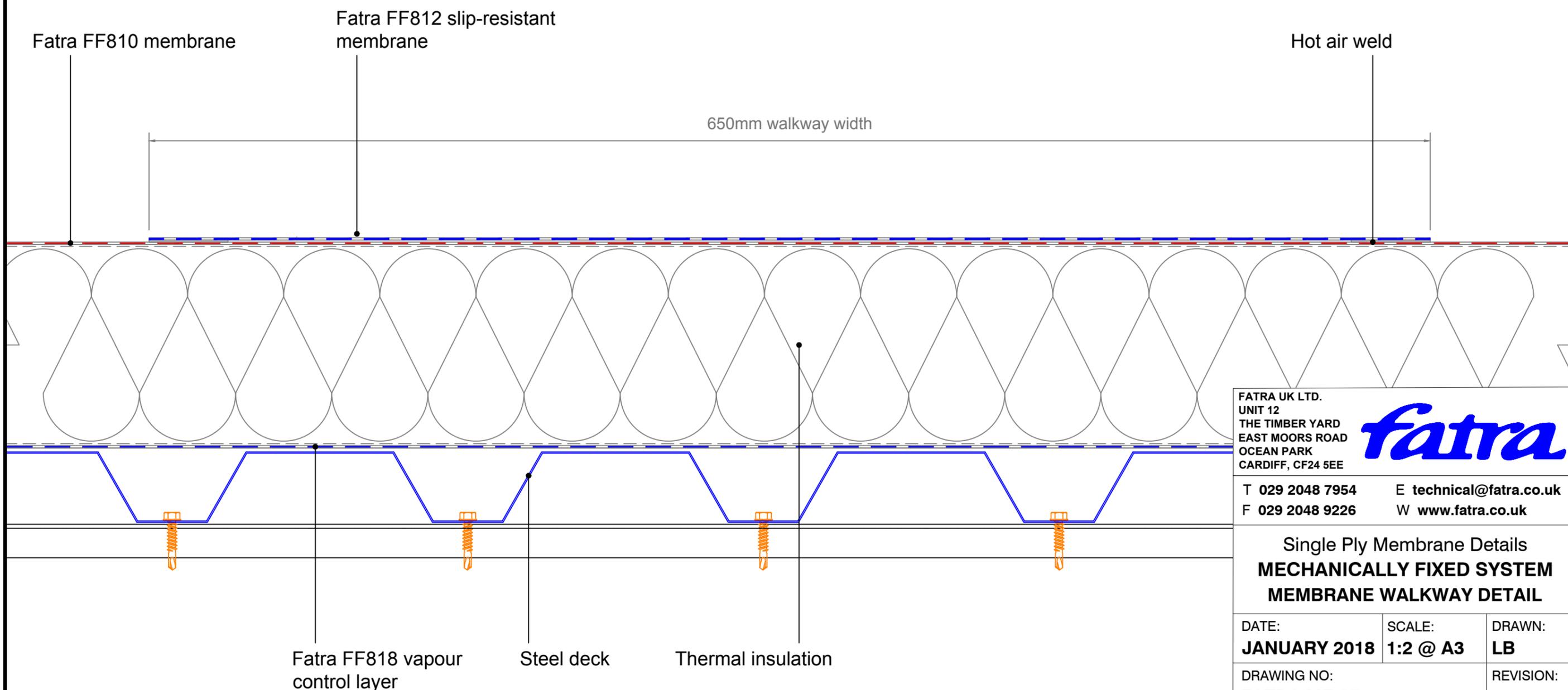
Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**COLUMN PENETRATION ISOMETRIC**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-36</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Membrane walkway detail**

**Construction Note**

Galvanised steel walkway plate is only required when using mineral fibre Thermal Insulation boards.  
 PIR / dense foam boards do not require the extra protection unless specified.



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**MEMBRANE WALKWAY DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
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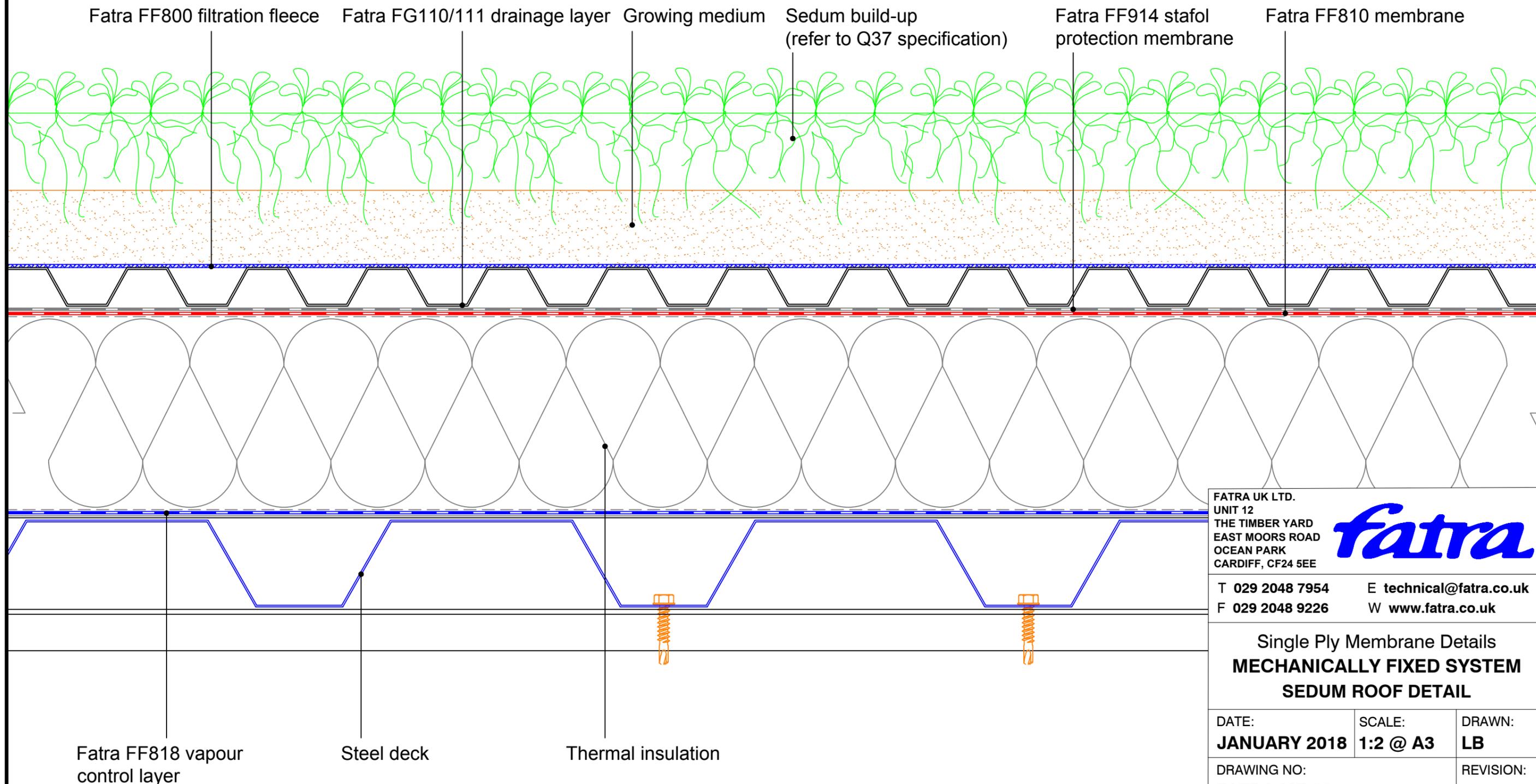
DRAWING NO: <b>FATRA MF-37</b>	REVISION: -
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**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Sedum roof detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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 W www.fatra.co.uk

Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SEDUM ROOF DETAIL**

DATE:  
**JANUARY 2018**

SCALE:  
**1:2 @ A3**

DRAWN:  
**LB**

DRAWING NO:  
**FATRA MF-38**

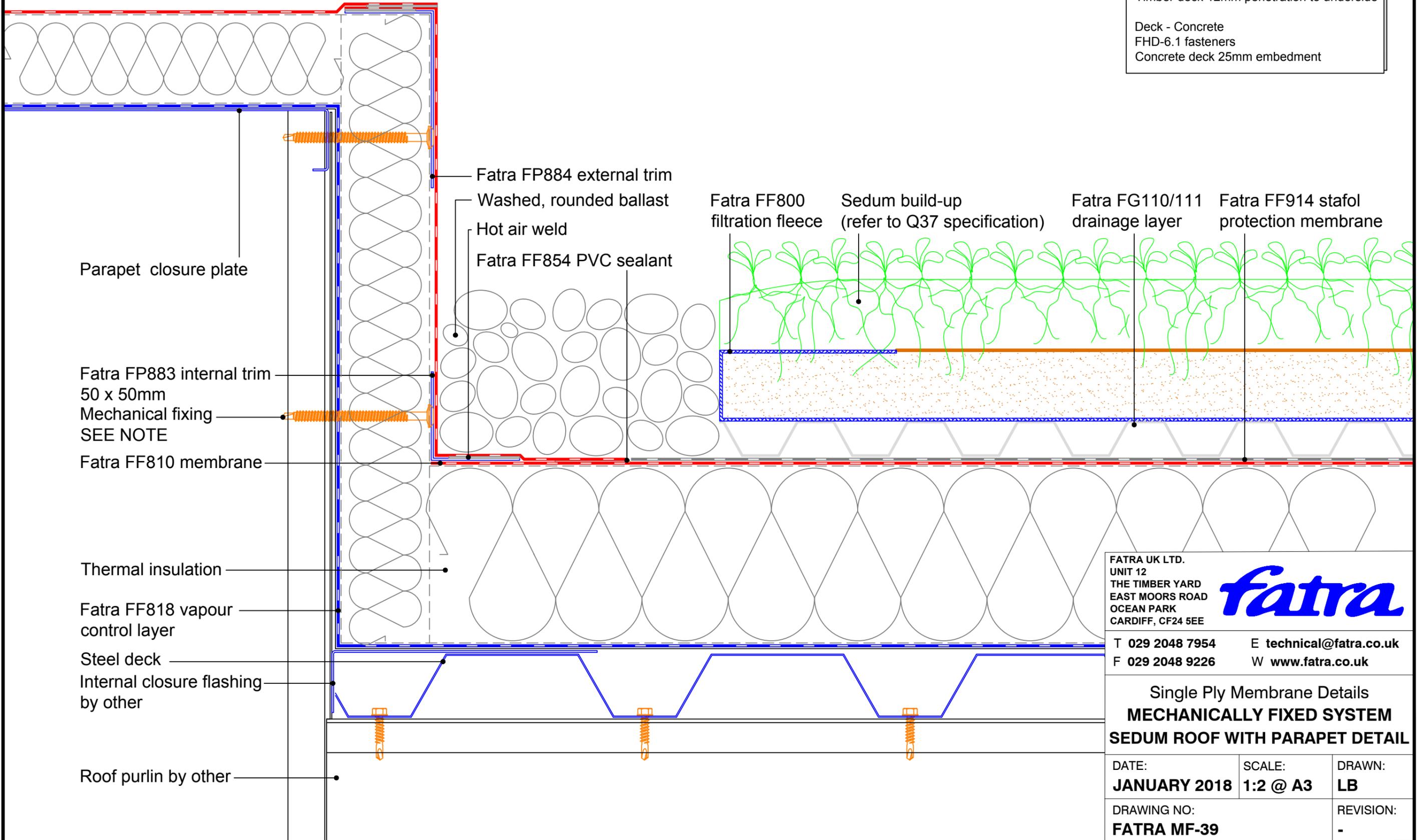
REVISION:  
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**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Sedum roof with parapet detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SEDUM ROOF WITH PARAPET DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-39</b>		REVISION: <b>-</b>

# Single Ply Membrane Details

## Mechanically Fixed System

### Sedum roof with paving slabs detail

#### MECHANICAL FIXINGS:-

Selection of fixings:-

Deck - Metal/Timber/plywood

FBS-5.8 fasteners

Metal deck 15mm penetration to underside

Timber deck 12mm penetration to underside

Deck - Concrete

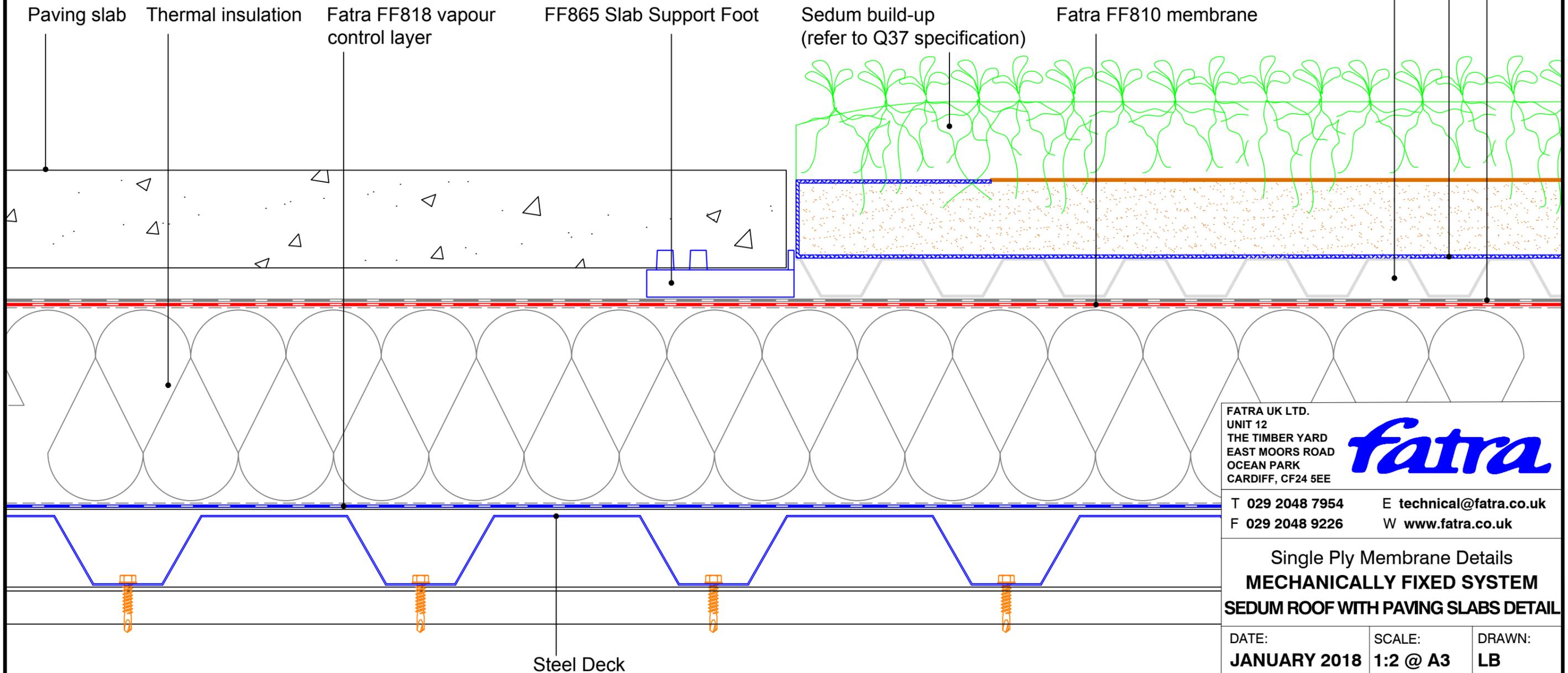
FHD-6.1 fasteners

Concrete deck 25mm embedment

Fatra FF914 stafol  
protection membrane

Fatra FF800 filtration fleece

Fatra FG110/111  
drainage layer



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SEDUM ROOF WITH PAVING SLABS DETAIL**

DATE:  
**JANUARY 2018**

SCALE:  
**1:2 @ A3**

DRAWN:  
**LB**

DRAWING NO:  
**FATRA MF-40**

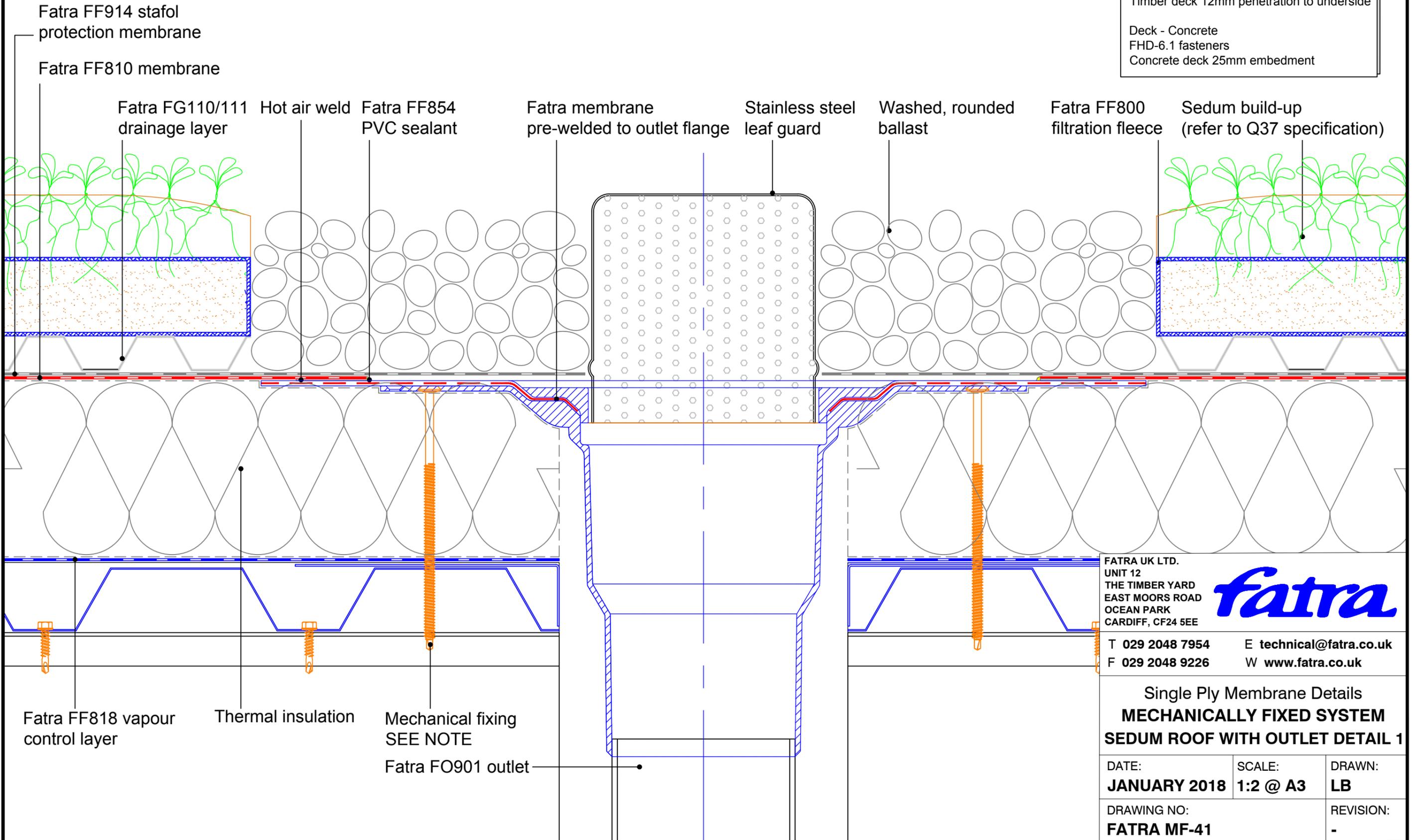
REVISION:  
**-**

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Sedum roof with outlet detail 1**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SEDUM ROOF WITH OUTLET DETAIL 1**

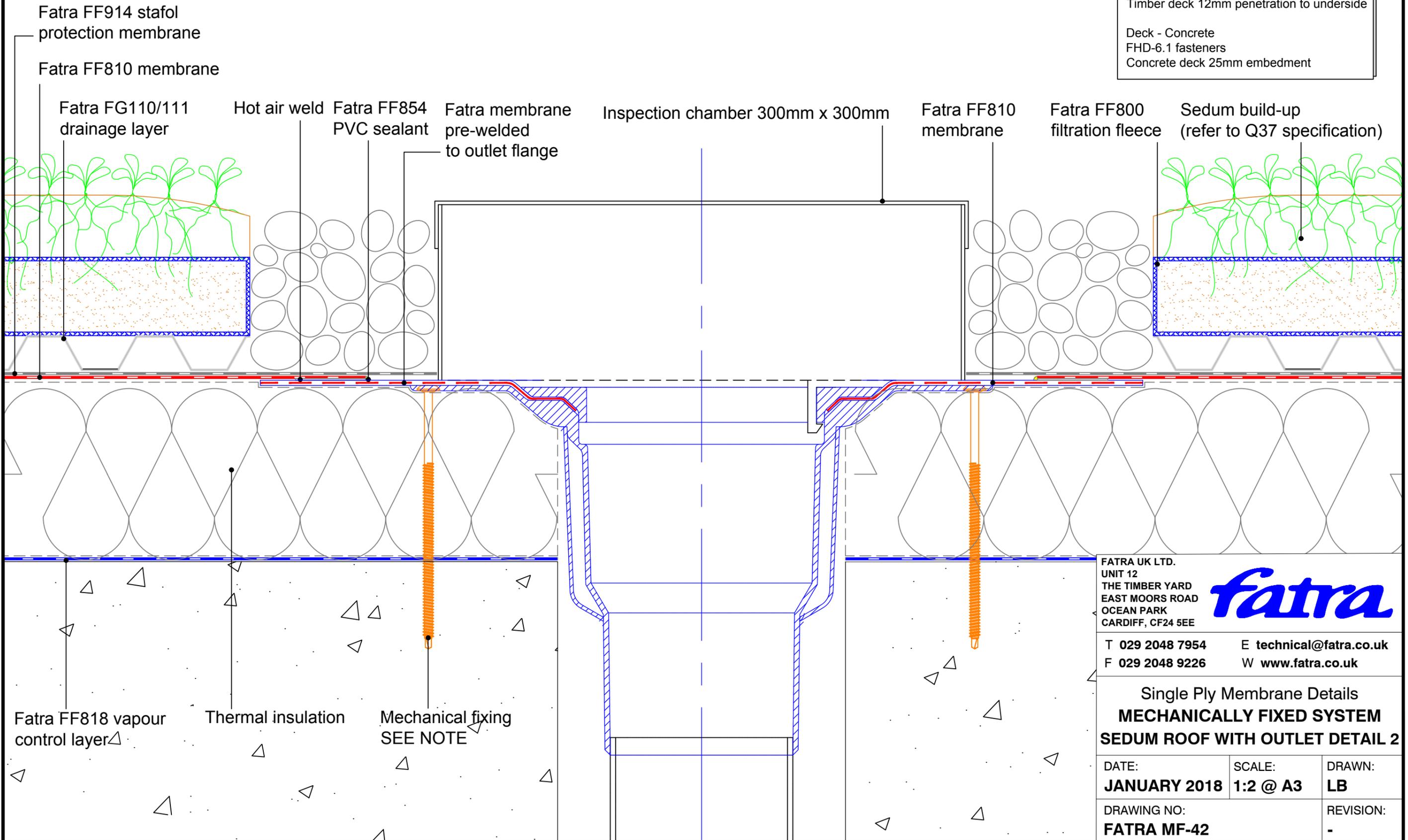
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DRAWING NO: <b>FATRA MF-41</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Sedum roof with outlet detail 2**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SEDUM ROOF WITH OUTLET DETAIL 2**

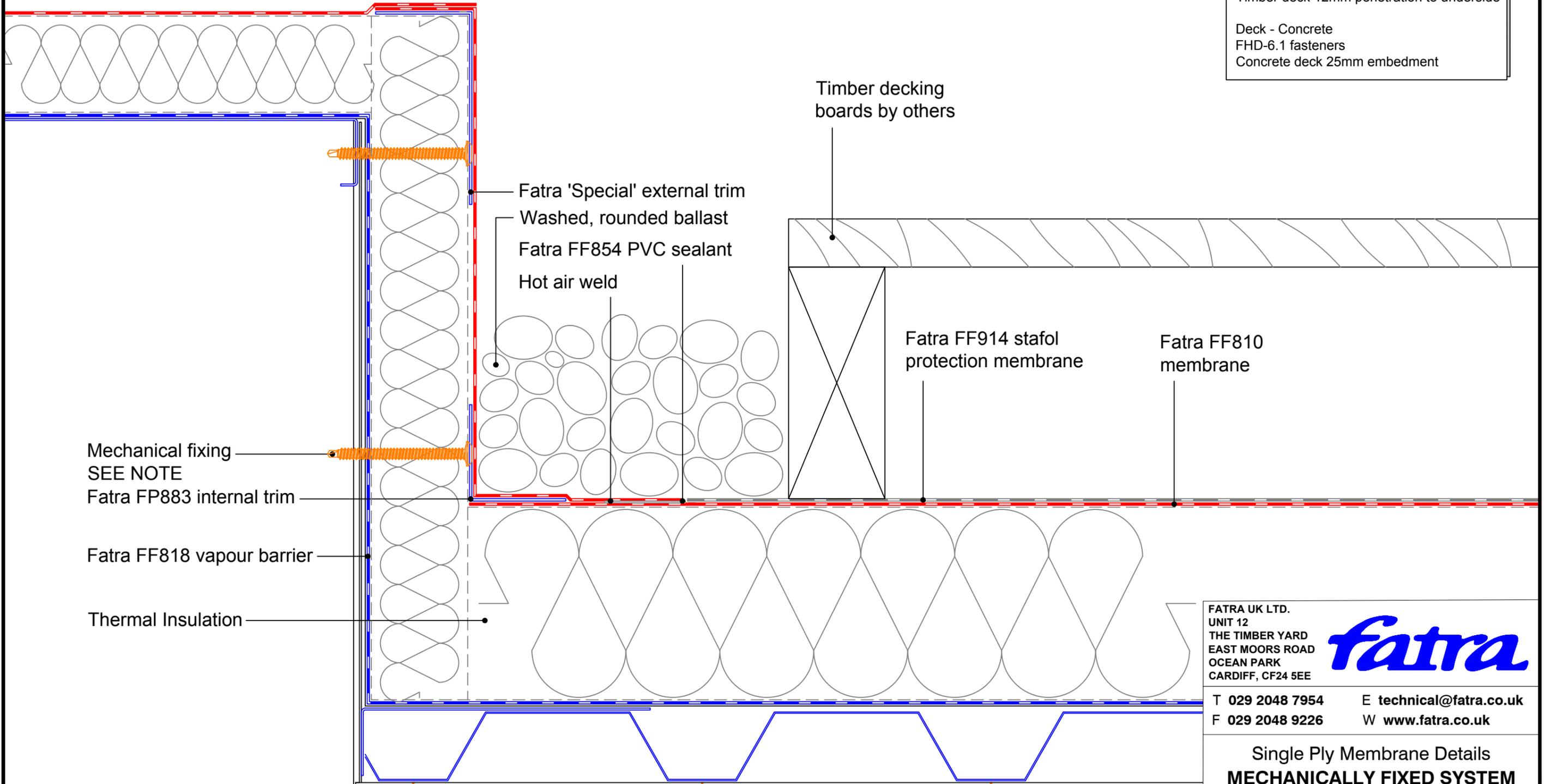
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DRAWING NO: <b>FATRA MF-42</b>		REVISION: -

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Roof parapet with timber decking detail**

**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment



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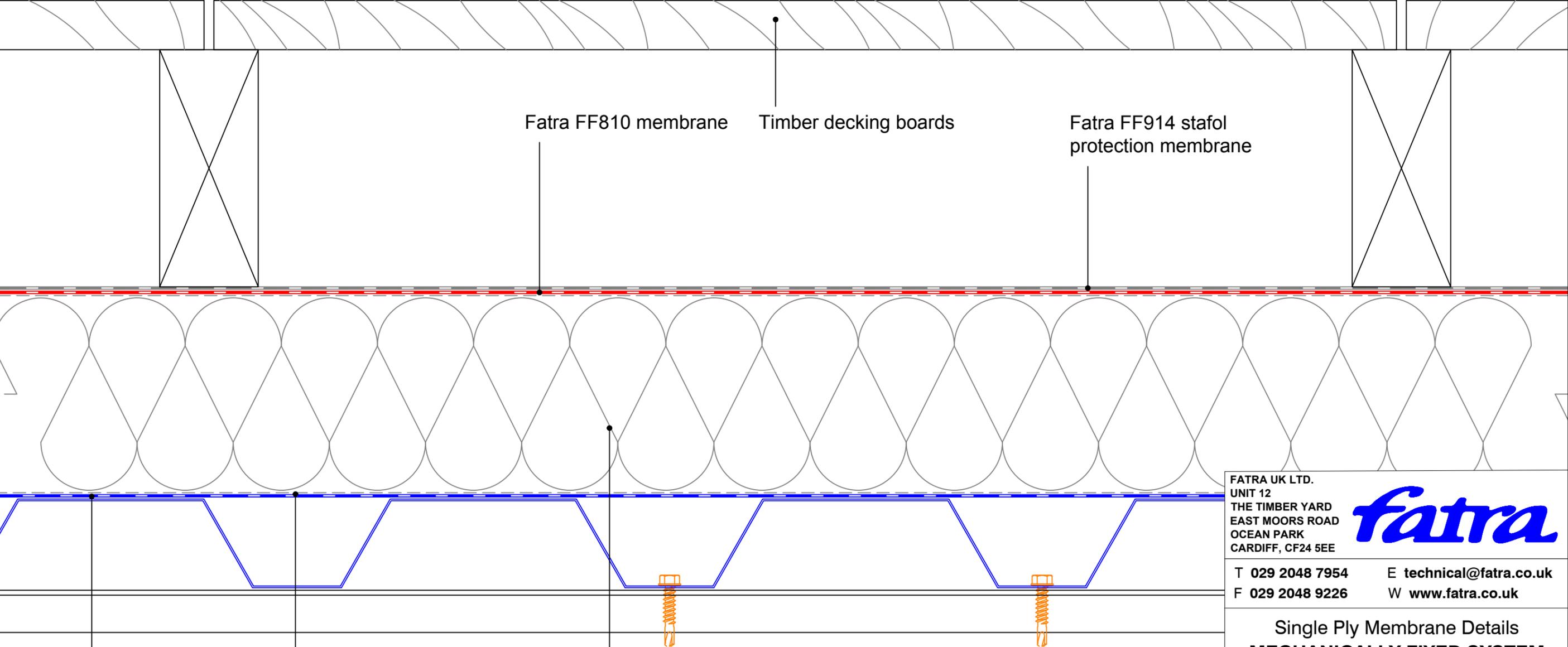


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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**ROOF PARAPET WITH TIMBER DECKING**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-43</b>		REVISION: <b>-</b>

**Single Ply Membrane Details**  
 Mechanically Fixed System  
 Roof section with timber decking



Fatra FF810 membrane

Timber decking boards

Fatra FF914 stafol protection membrane

Thermal Insulation

Fatra FF867 insulation adhesive

Fatra FF818 vapour barrier

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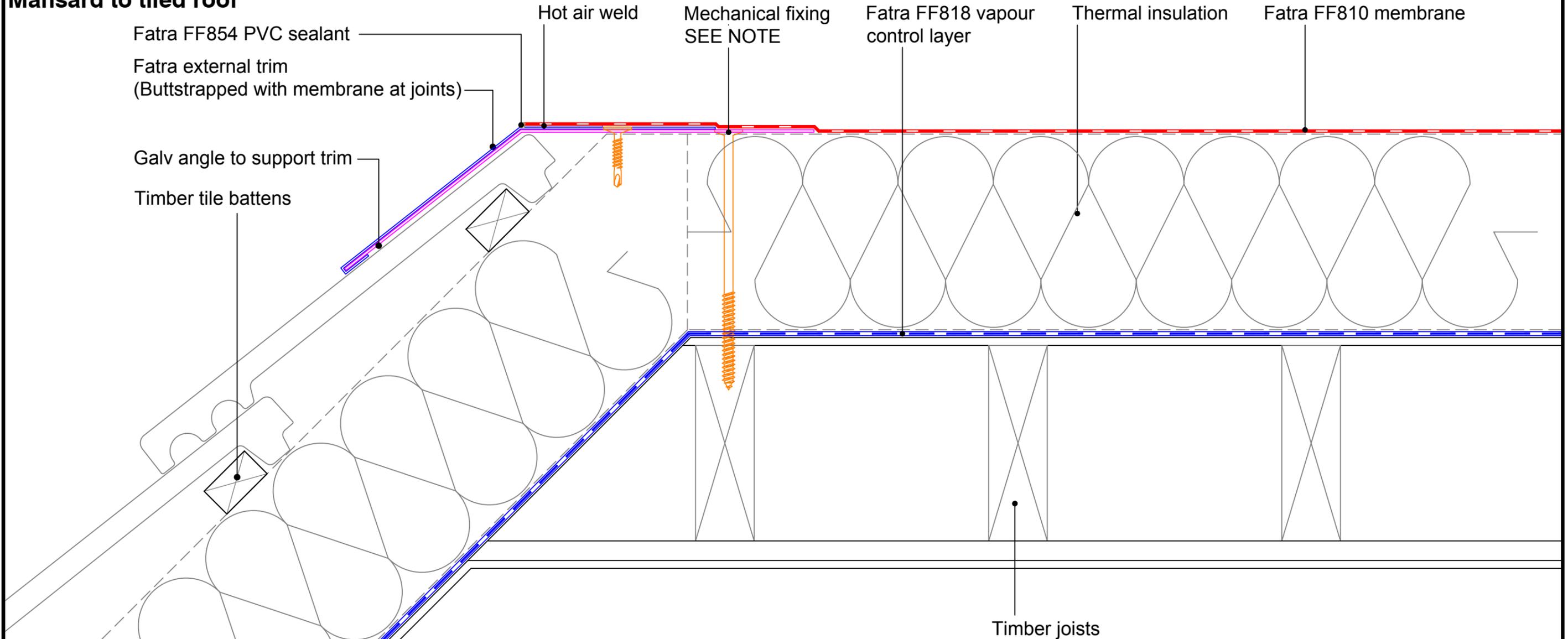
Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**ROOF SECTION WITH TIMBER DECKING**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-44</b>		REVISION: <b>-</b>

# Single Ply Membrane Details

## Mechanically Fixed System

### Mansard to tiled roof



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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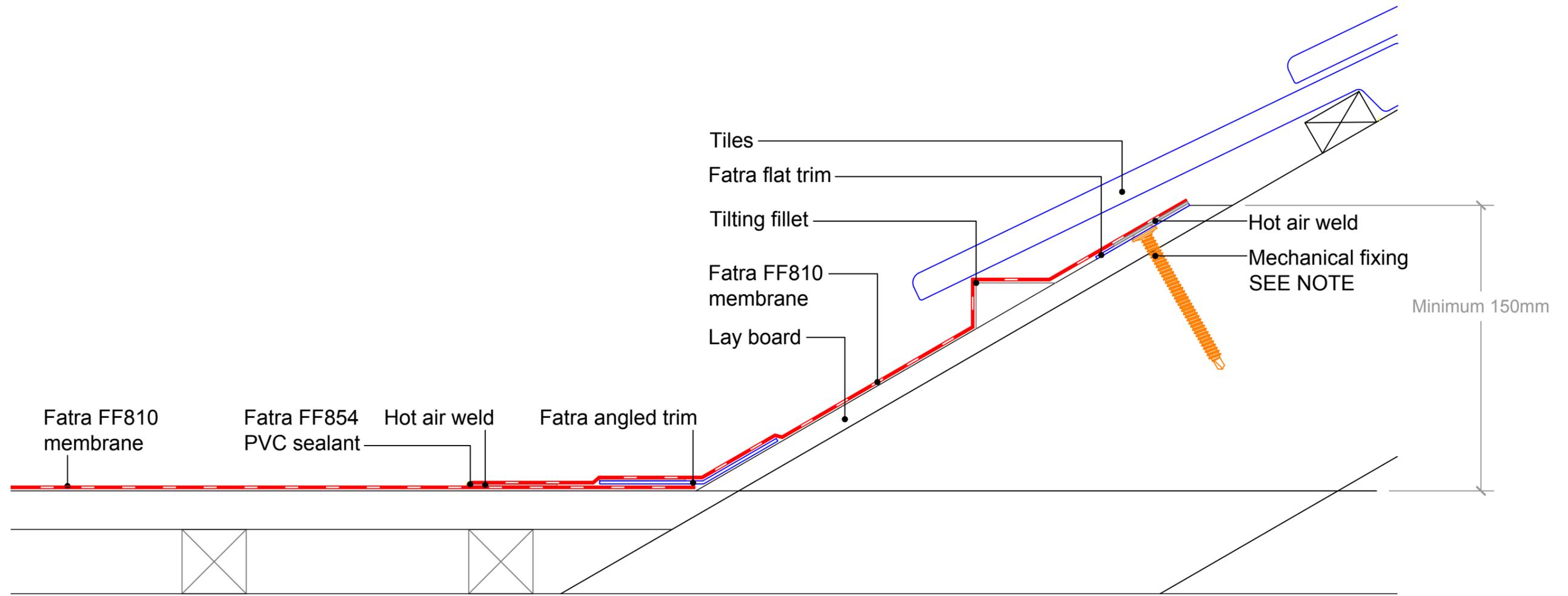
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**MANSARD TO TILED ROOF**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
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DRAWING NO: <b>FATRA MF-45</b>	REVISION: <b>-</b>
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**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Upstand to pitched tiles**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**UPSTAND TO PITCHED TILES**

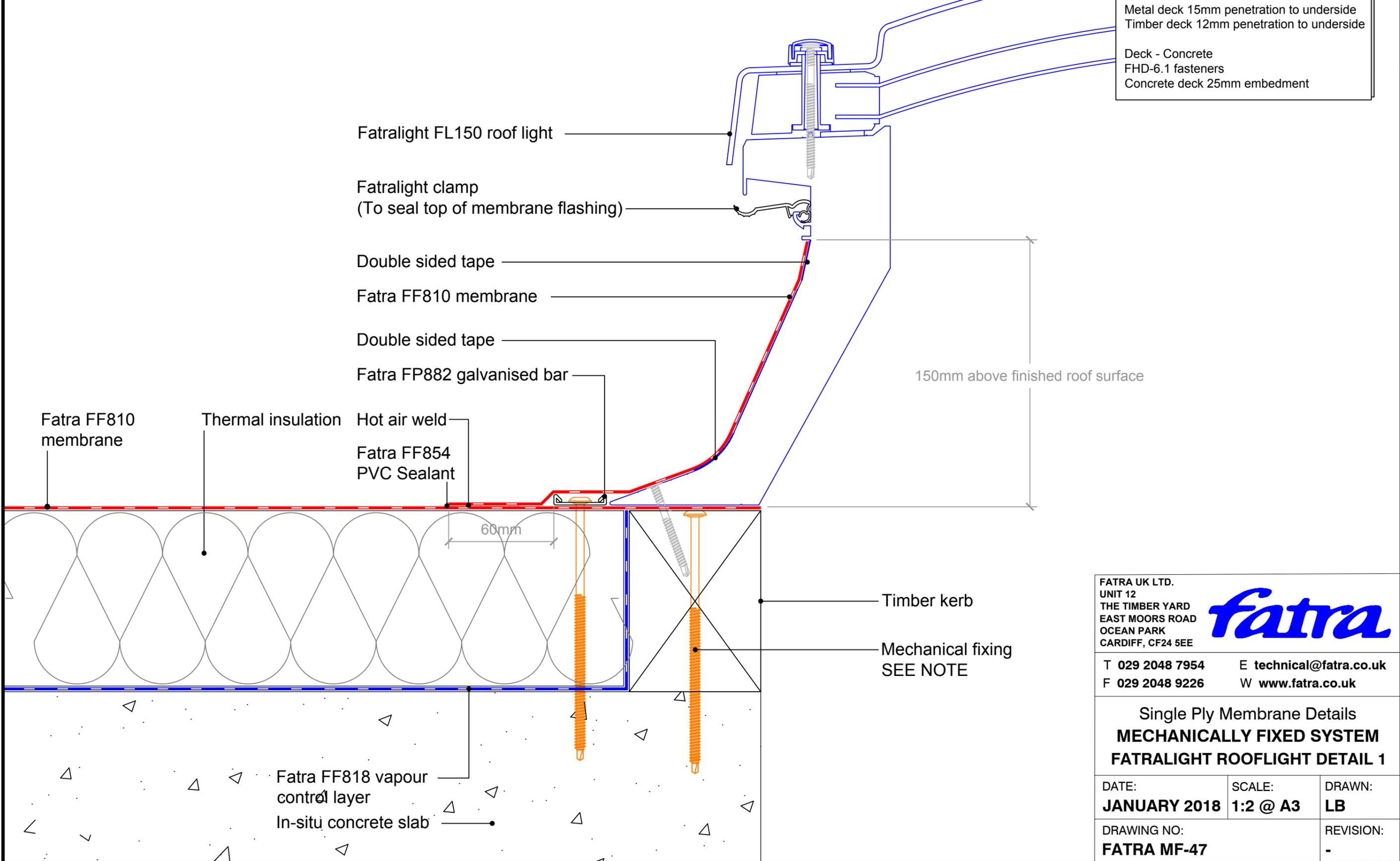
DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-46</b>		REVISION: -

# Single Ply Membrane Details

Mechanically Fixed System

## Fatralight rooflight detail 1

(150mm high kerb)



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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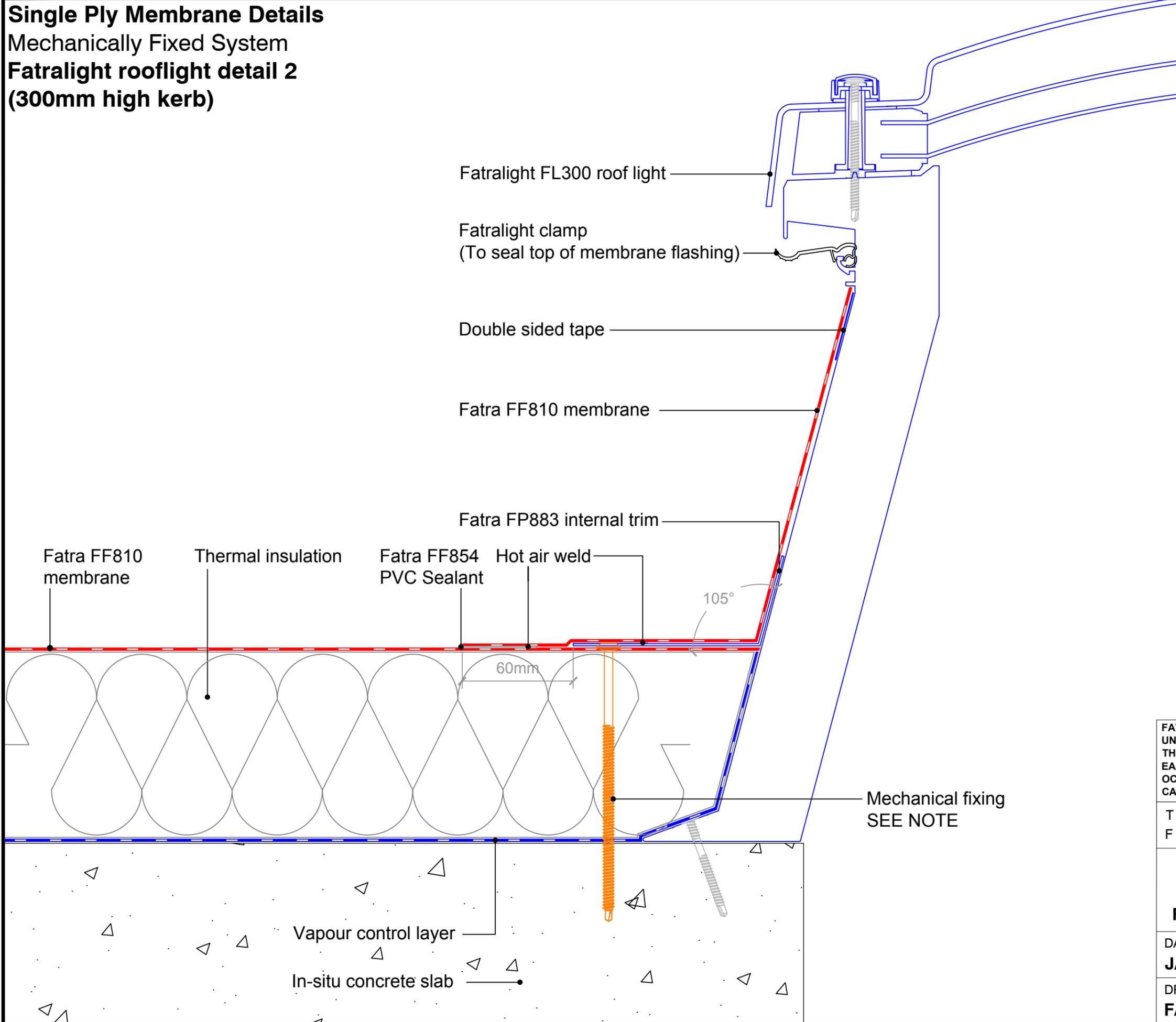
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**FATRALIGHT ROOFLIGHT DETAIL 1**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
DRAWING NO: <b>FATRA MF-47</b>		REVISION: -

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Fatralight rooflight detail 2**  
**(300mm high kerb)**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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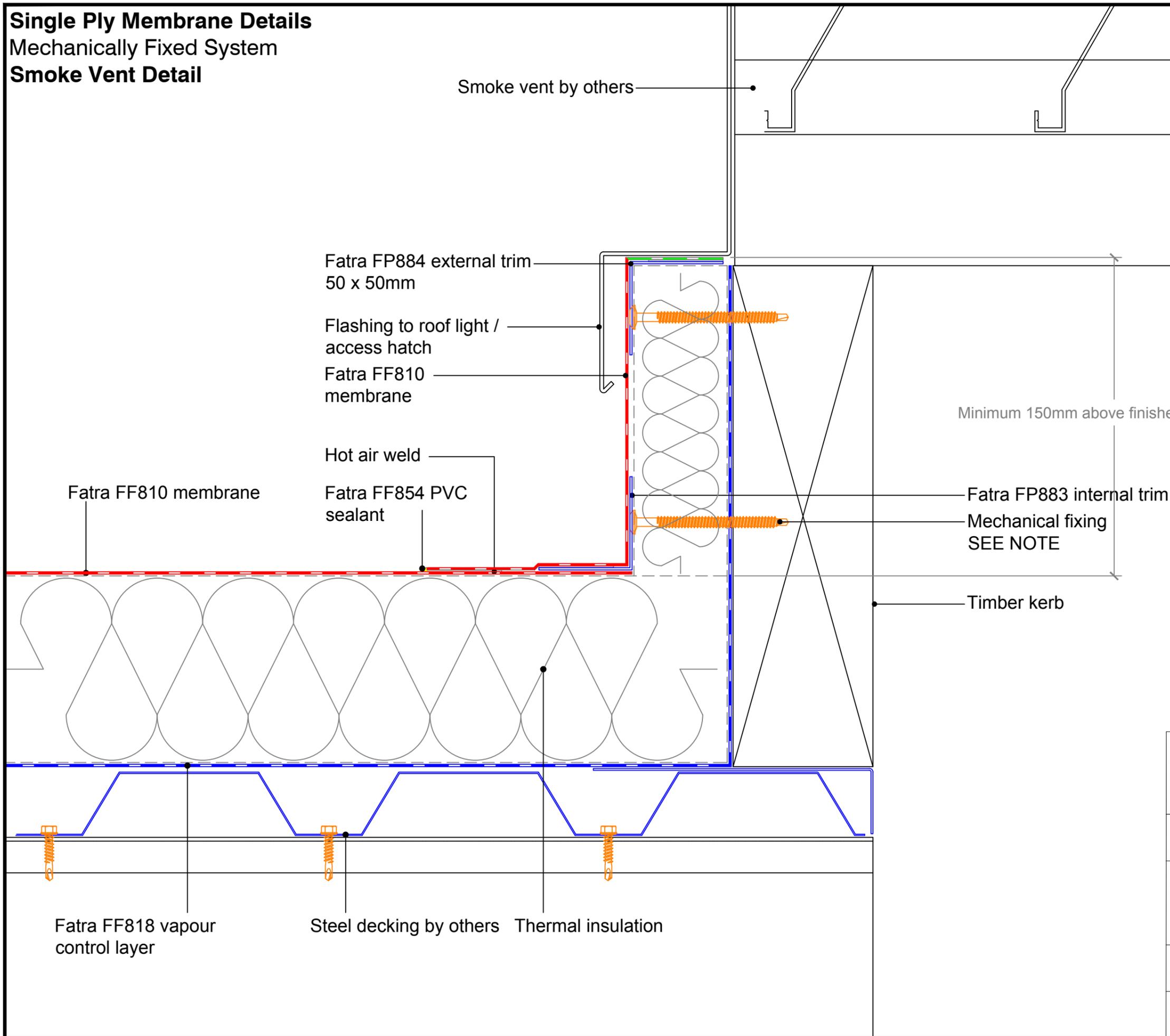
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**FATRALIGHT ROOFLIGHT DETAIL 2**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
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DRAWING NO: <b>FATRA MF-48</b>	REVISION: -
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**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Smoke Vent Detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

Minimum 150mm above finished roof surface

Fatra FP883 internal trim  
 Mechanical fixing  
 SEE NOTE

Timber kerb

Fatra FF810 membrane

Fatra FF854 PVC sealant

Hot air weld

Fatra FF810 membrane

Flashing to roof light /  
 access hatch

Fatra FP884 external trim  
 50 x 50mm

Fatra FF818 vapour  
 control layer

Steel decking by others Thermal insulation

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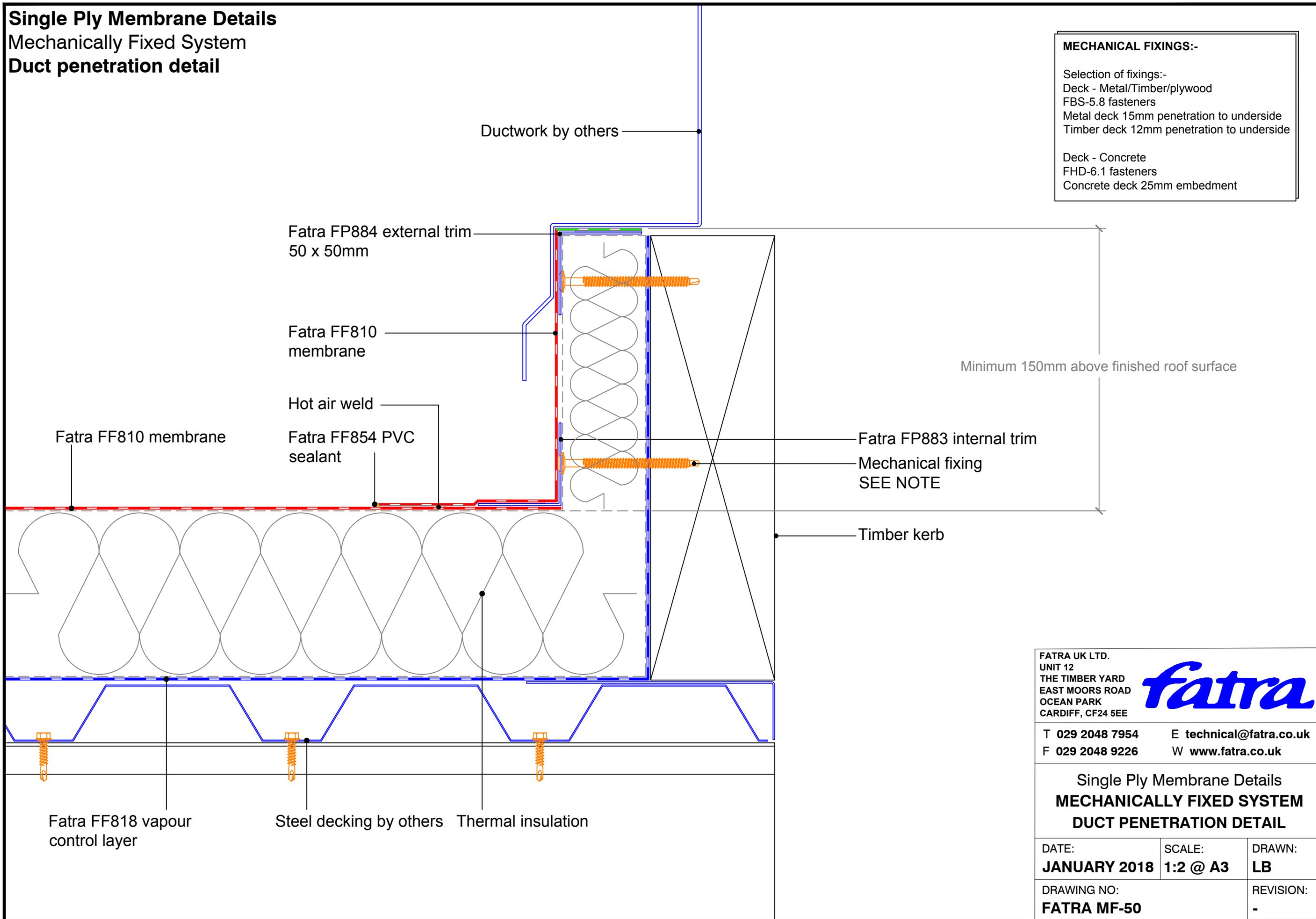
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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**SMOKE VENT DETAIL**

DATE: **JANUARY 2018** SCALE: **1:2 @ A3** DRAWN: **LB**

DRAWING NO: **FATRA MF-49** REVISION: **-**

**Single Ply Membrane Details**  
**Mechanically Fixed System**  
**Duct penetration detail**



**MECHANICAL FIXINGS:-**

Selection of fixings:-  
 Deck - Metal/Timber/plywood  
 FBS-5.8 fasteners  
 Metal deck 15mm penetration to underside  
 Timber deck 12mm penetration to underside

Deck - Concrete  
 FHD-6.1 fasteners  
 Concrete deck 25mm embedment

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Single Ply Membrane Details  
**MECHANICALLY FIXED SYSTEM**  
**DUCT PENETRATION DETAIL**

DATE: <b>JANUARY 2018</b>	SCALE: <b>1:2 @ A3</b>	DRAWN: <b>LB</b>
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DRAWING NO: <b>FATRA MF-50</b>	REVISION: <b>-</b>
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