



**S A EAT ER OAR A G INSTALLATION,
STORAGE & MAINTENANCE GUIDE**



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1. Scope as per Clauses 1.0 and 9.4 E2/AS1
2. LMAV001 Profile weatherboard directly matches the NZS3617 profile Fig 5 except for the thickness that is increased from 19mm to 22mm and width increased to 139mm from 135mm. This variation is comparable to the standard profile except for the increased width and thickness, as this is proposed for increased stability with these hardwoods.
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LMA SHIPLAP HARDWOOD CLADDING DRAWING INDEX

Product	Sheet No.	Sheet Name	Issue Date
LMA	VER_00	Shiplap Hardwood Cladding Profile	03/2021
LMA	VER_01	Window Head Detail_Aluminium Joinery	03/2021
LMA	VER_02	3D Window Head Detail_Aluminium Joinery	03/2021
LMA	VER_03	Window Sill Detail_Aluminium Joinery	03/2021
LMA	VER_04	3D Window Sill Detail, Aluminium Joinery	03/2021
LMA	VER_05	Window Jamb Detail_Aluminium Joinery	03/2021
LMA	VER_06	3D Window Jamb Detail_Aluminium Joinery	03/2021
LMA	VER_07	Door Head Detail_Aluminium Joinery	03/2021
LMA	VER_08	Door Sill Detail_Aluminium Joinery	03/2021
LMA	VER_09	Door Jamb Detail_Aluminium Joinery	03/2021
LMA	VER_10	Internal corner_Mould	03/2021
LMA	VER_11	Internal Corner 01	10/03/2023
LMA	VER_12	External corner_Sealant	03/2021
LMA	VER_13	External corner_Corner flashing	03/2021
LMA	VER_14	External corner_Cover batten	03/2021
LMA	VER_15	External Corner_Mould	03/2021
LMA	VER_16	External corner 01	10/03/2023
LMA	VER_17	External corner 02	10/03/2023
LMA	VER_18	Inter-Storey Joint 01	10/04/2023
LMA	VER_19	Soffit Detail_Sloping 01	10/04/2023
LMA	VER_20	Enclosed Deck Balustrade to Wall Junction	03/2021
LMA	VER_21	Parapet Detail	03/2021
LMA	VER_22	Vertical cavity at enclosed deck	03/2021
LMA	VER_23	Drained Inter-Storey Joint	03/2021
LMA	VER_24	Base of Wall_Concrete	03/2021
LMA	VER_25	Scarf Join Stain Finish	03/2021
LMA	VER_26	Roof/Wall Junction apron flashing detail	03/2021
LMA	VER_27	Soffit Detail_Overhang	03/2021
LMA	VER_28	Eaves Detail_No Overhang	03/2021
LMA	VER_29	Meter Box Detail	03/2021
LMA	VER_30	General Nail fixing detail_Stain finish	10/03/23
LMA	VER_31	General Screw fixing detail_Paint finish Pipe	10/03/23
LMA	VER_32	Penetration Plan Detail	10/04/23
LMA	VER_33	Pipe Penetration Detail	10/04/23
LMA	VER_34	Battens Set Out	10/04/23



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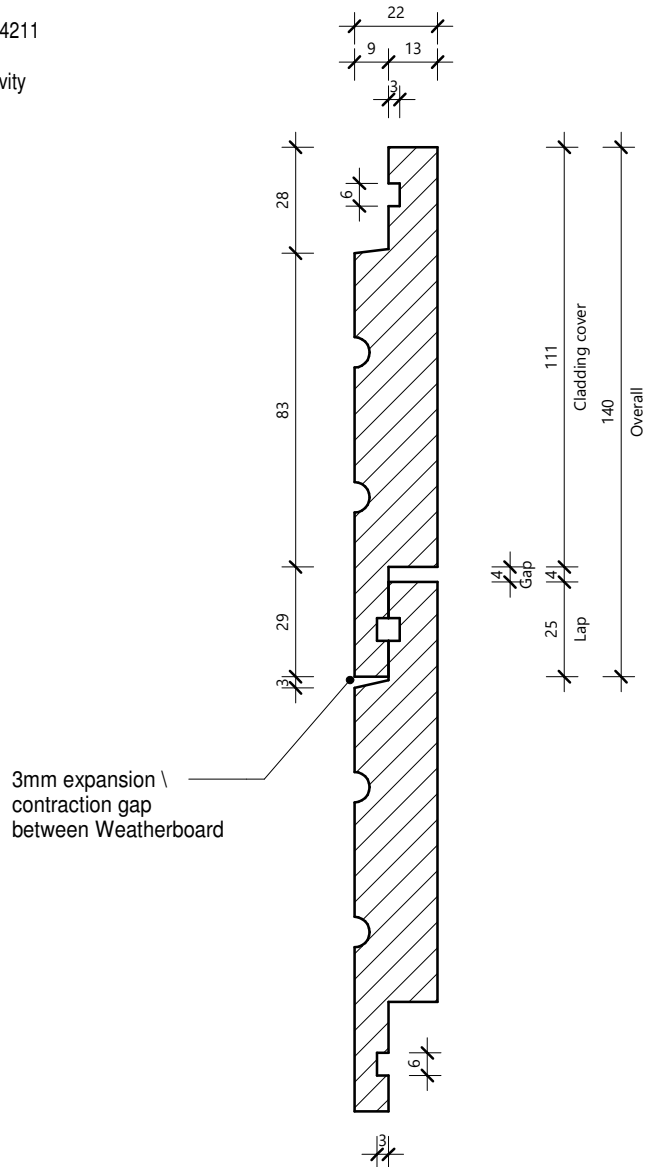
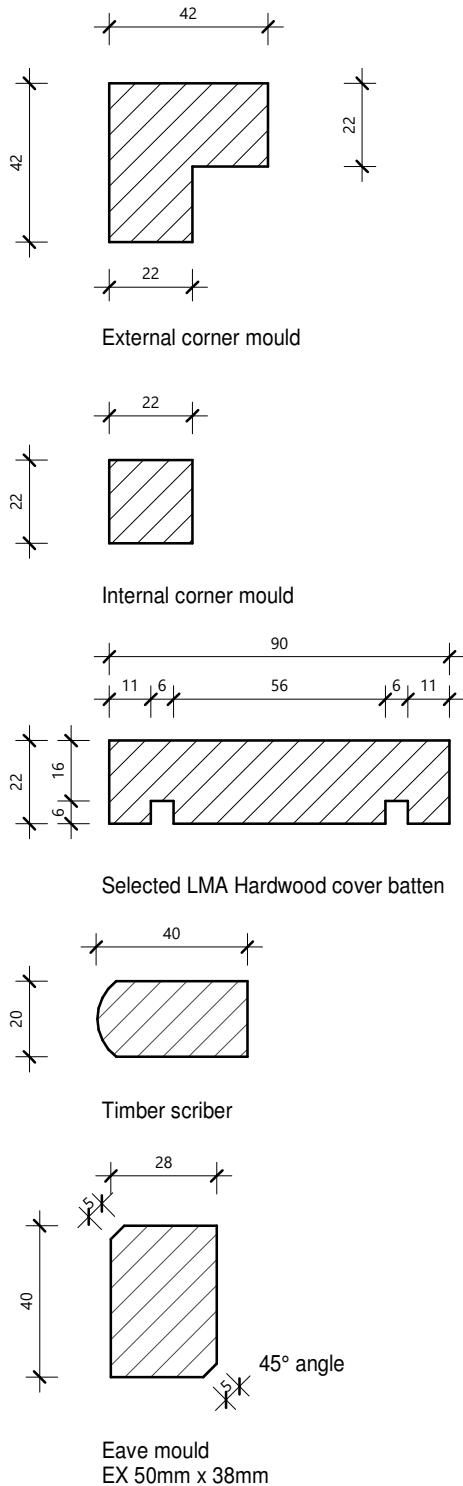
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Cover sheet

• SCALE: @ A4

• DATE: 09/06/2021

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Wurth ASSY plus A2 decking screw
or as per E2/AS1 - Table 24:
30mm Min Penetration into stud

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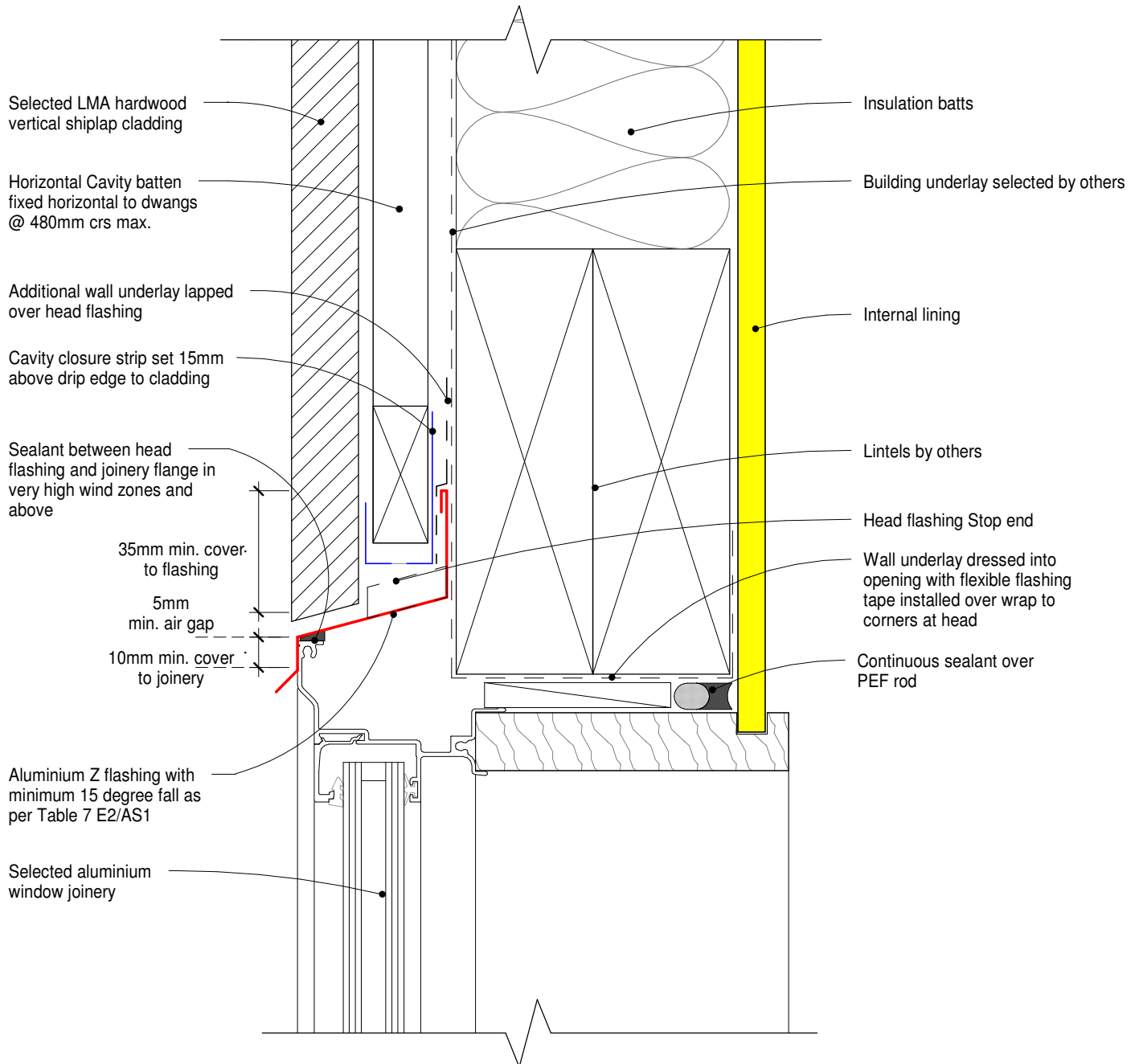
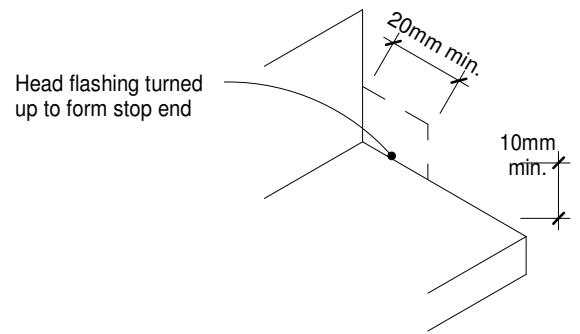
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Shiplap Hardwood Cladding Profile

• SCALE: 1 : 2@ A4

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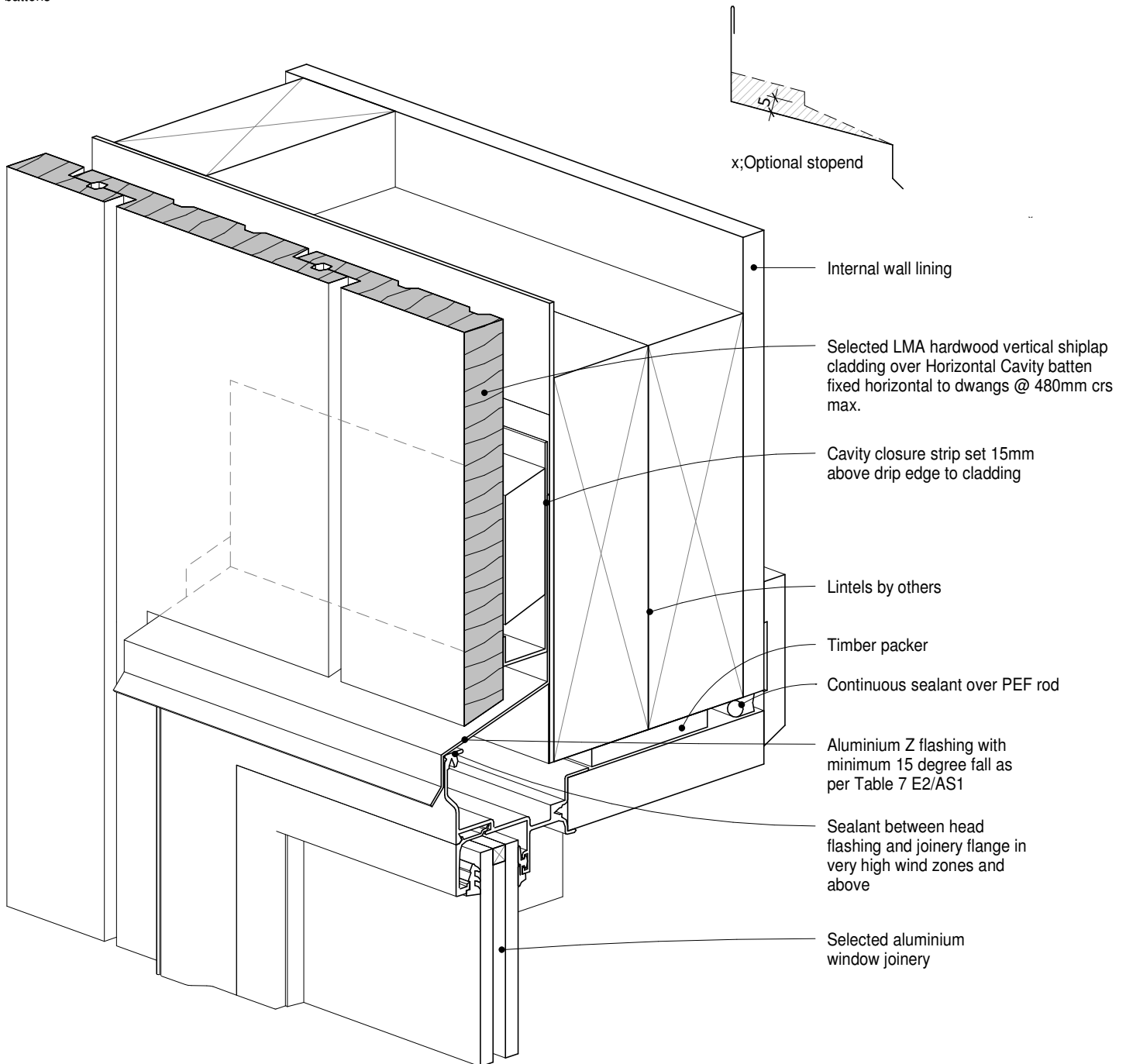


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• TITLE: LMA Vertical Shi lap Hardwood Cladding	
• DRAWING: Window Head Detail_Aluminium Joinery	
• SCALE: 1 : 2@ A4	• DATE: 09/06/2021

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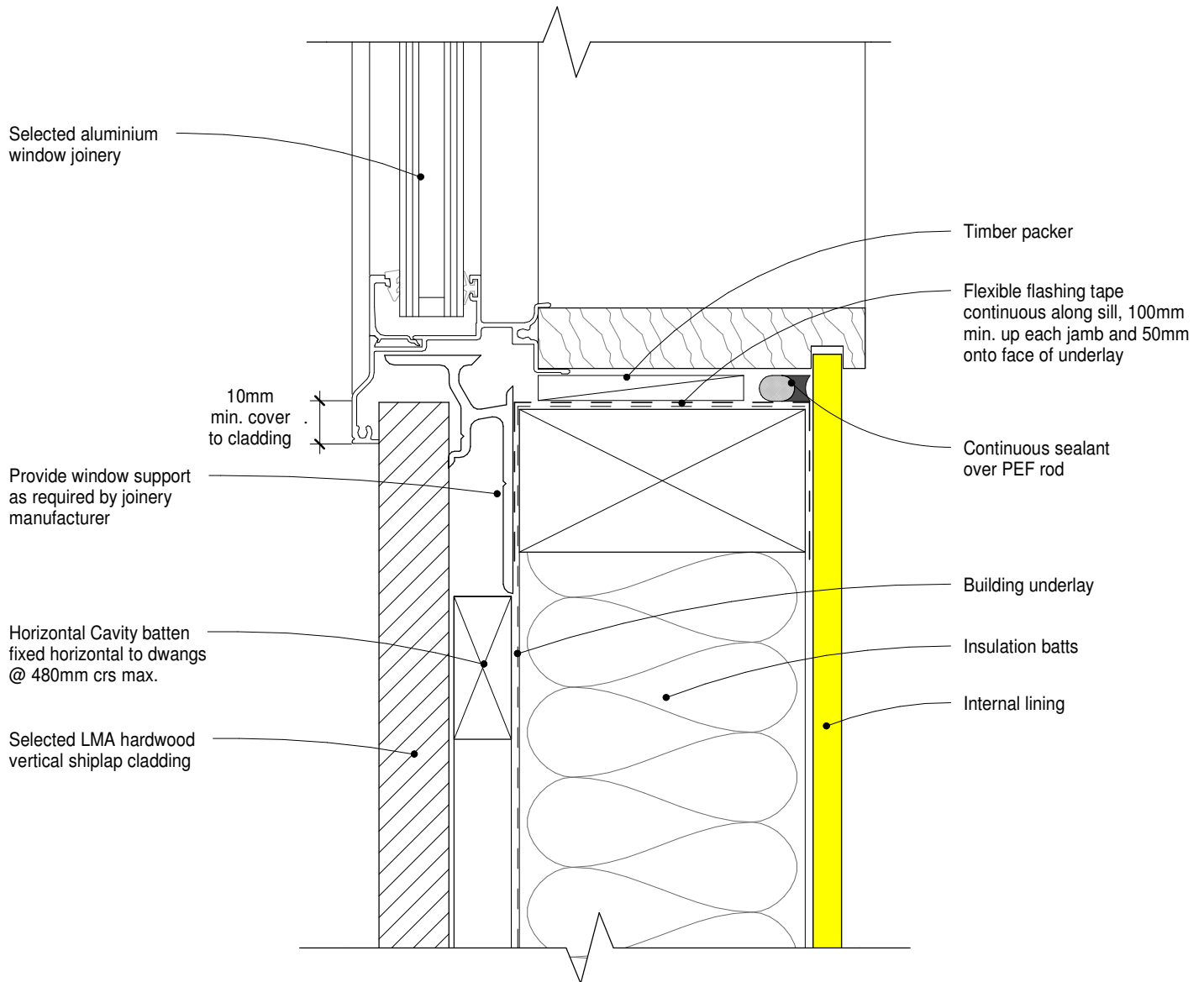
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: 3D Window Head Detail_Aluminium Joinery

• SCALE: 1 : 5@ A4

• DATE: 09/06/2021

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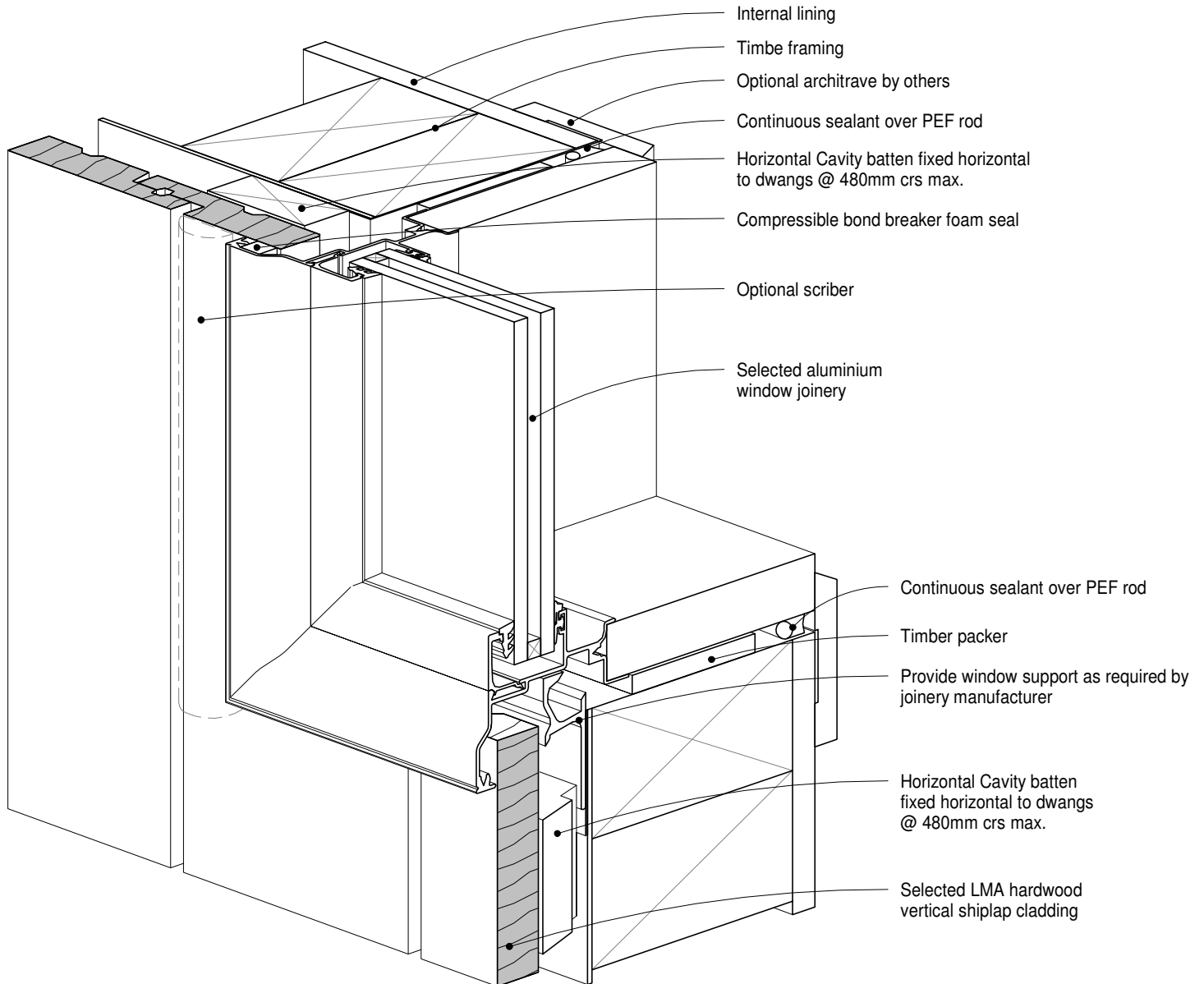
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Window Sill Detail_Aluminium Joinery

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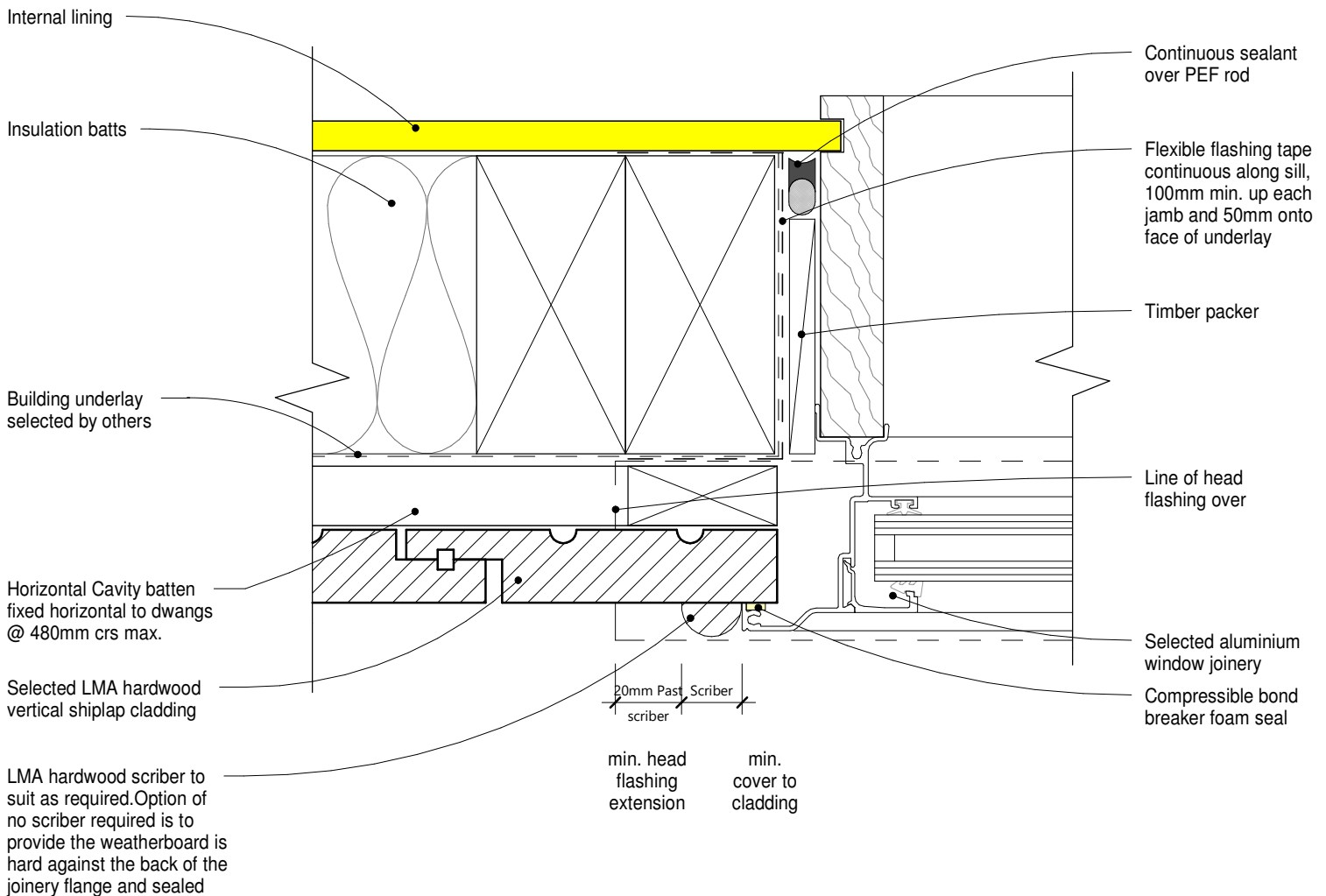


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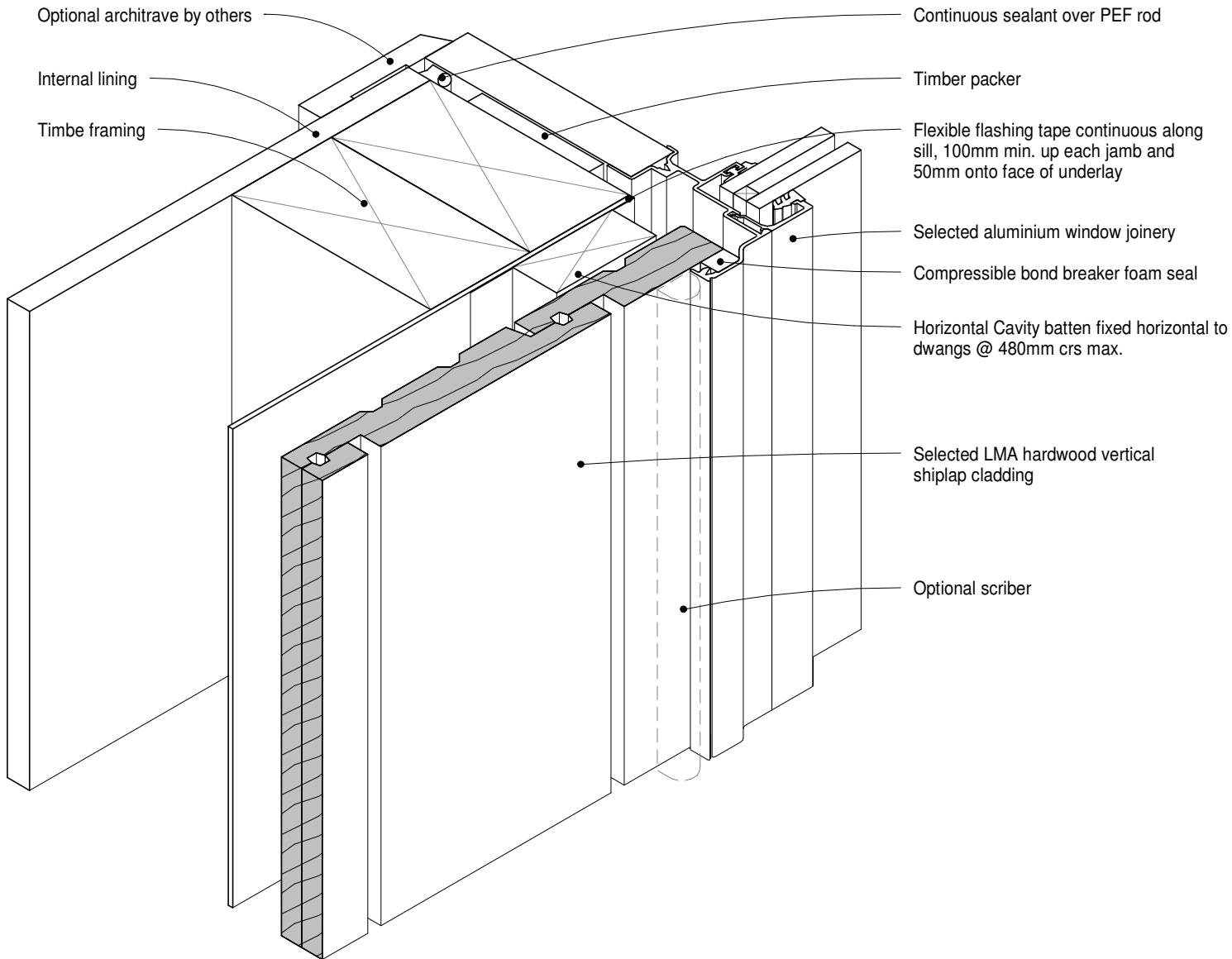


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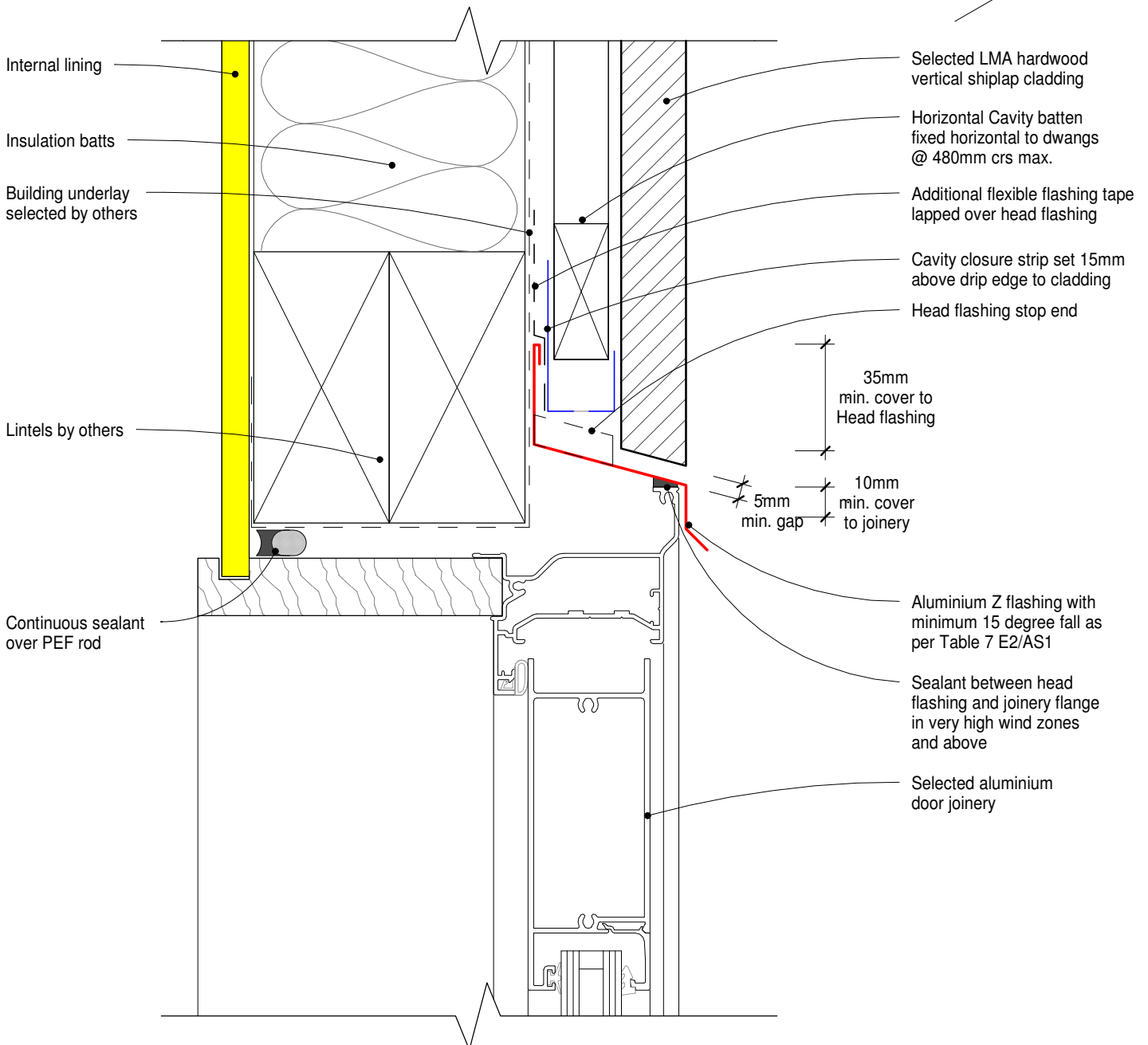
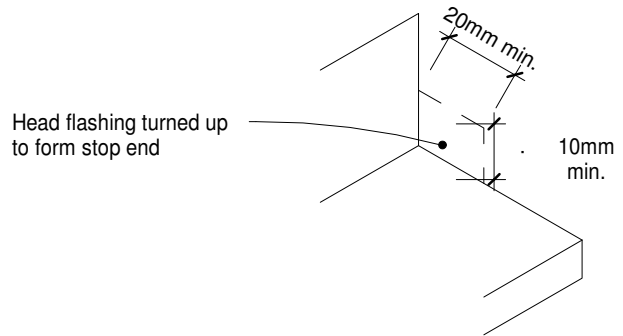
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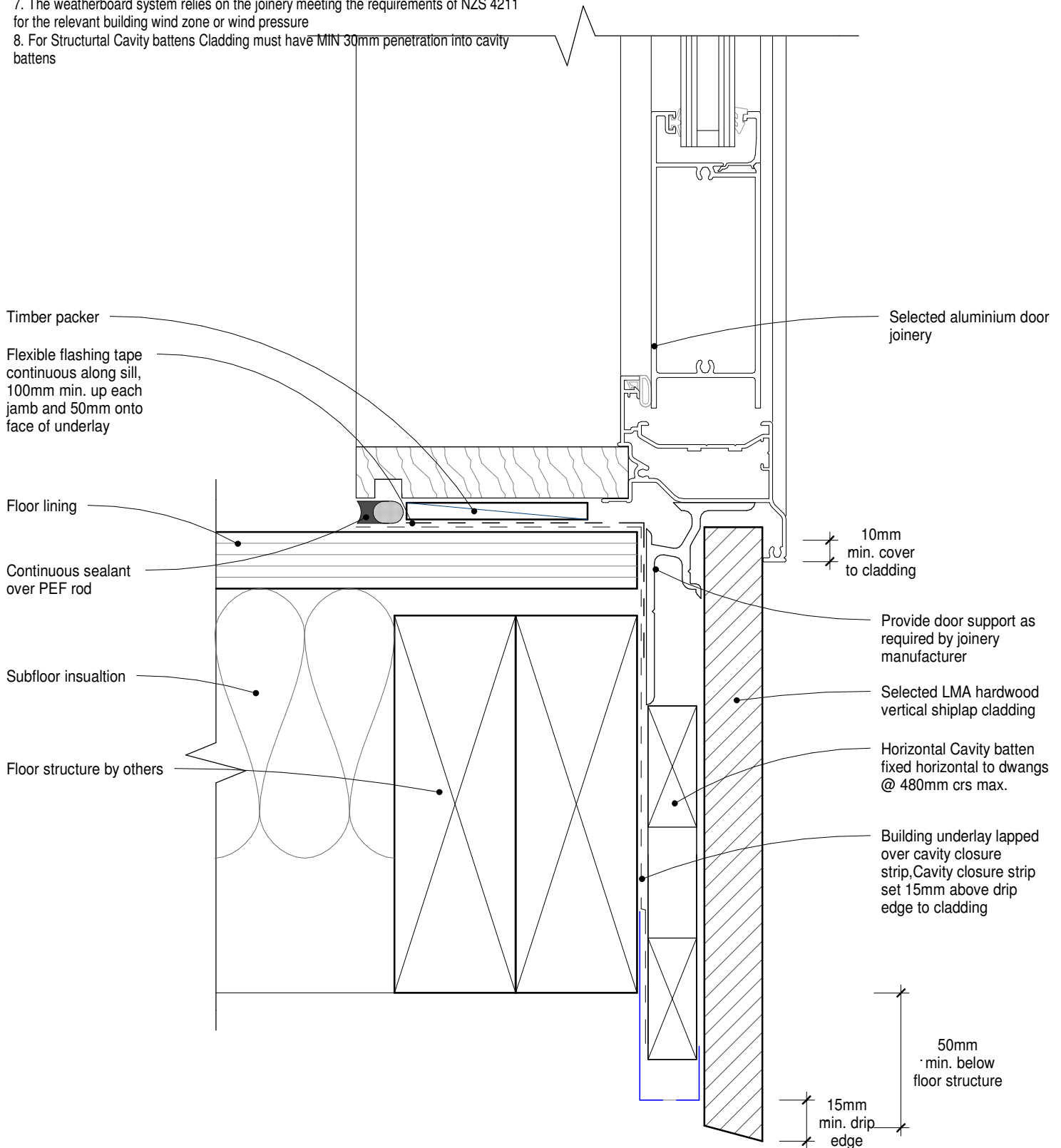
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Door Head Detail_Aluminium Joinery

• SCALE: 1 : 2 @ A4

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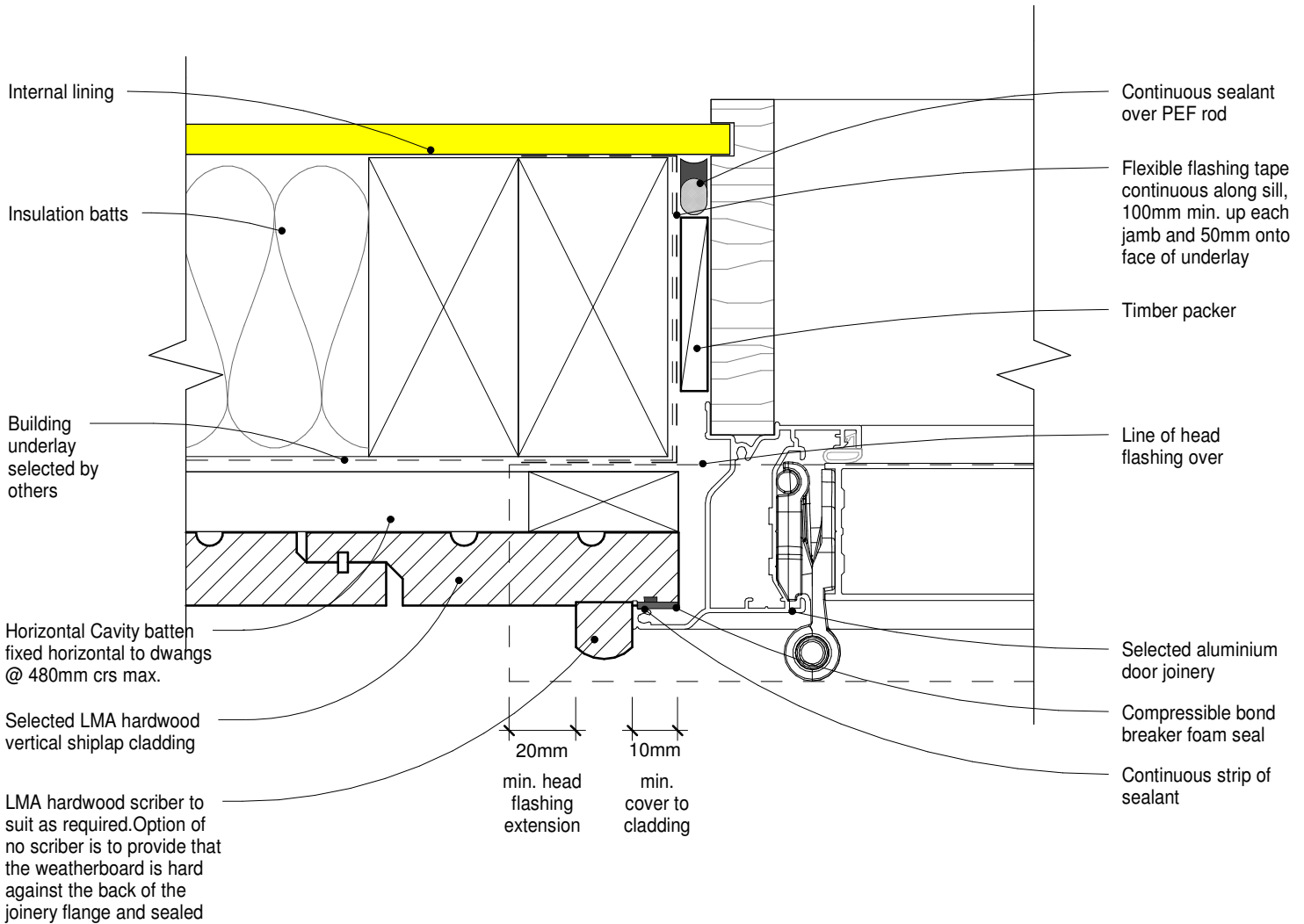
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• DRAWING: Door Sill Detail_Aluminium Joinery

• SCALE: 1 : 2@ A4

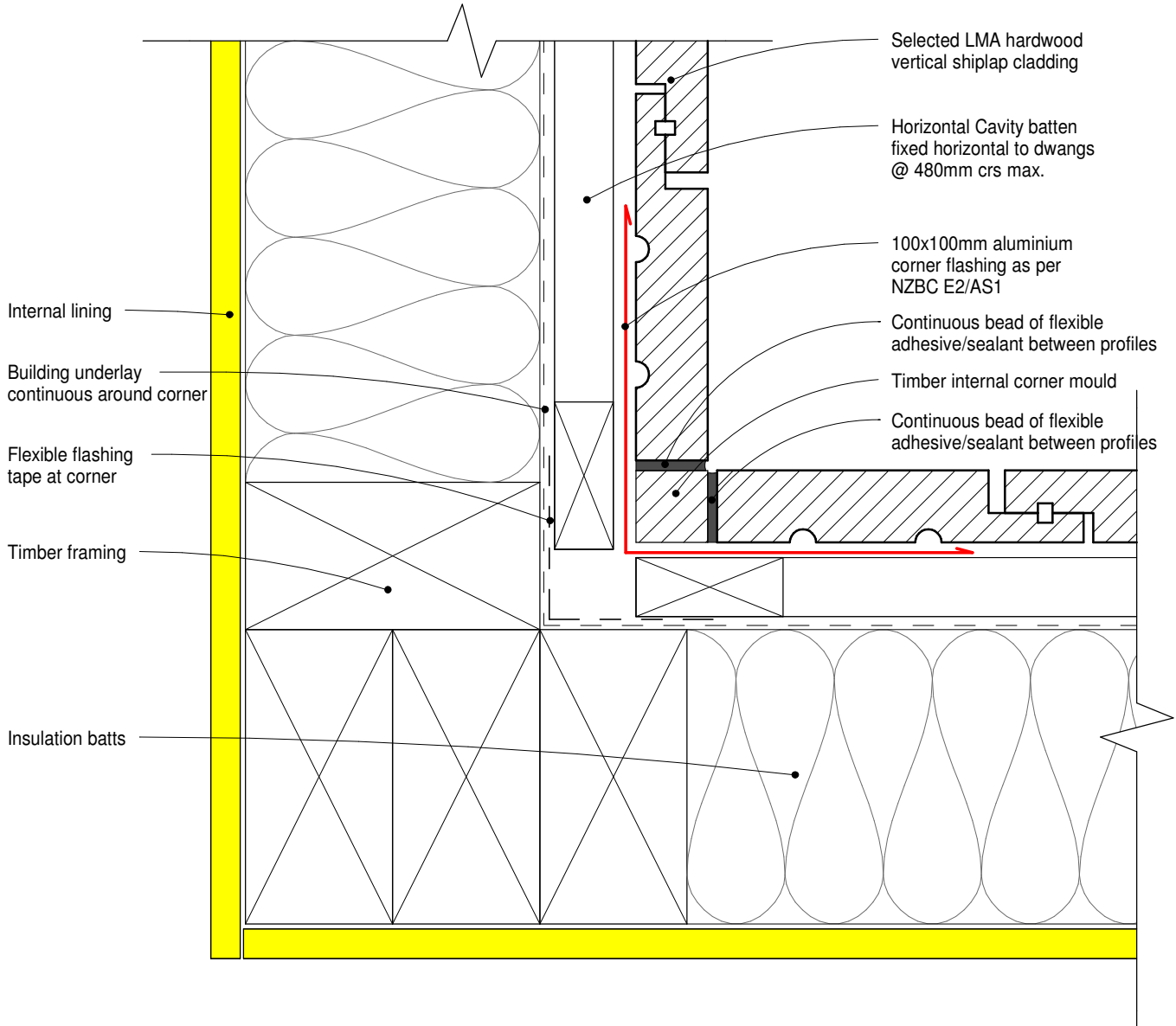
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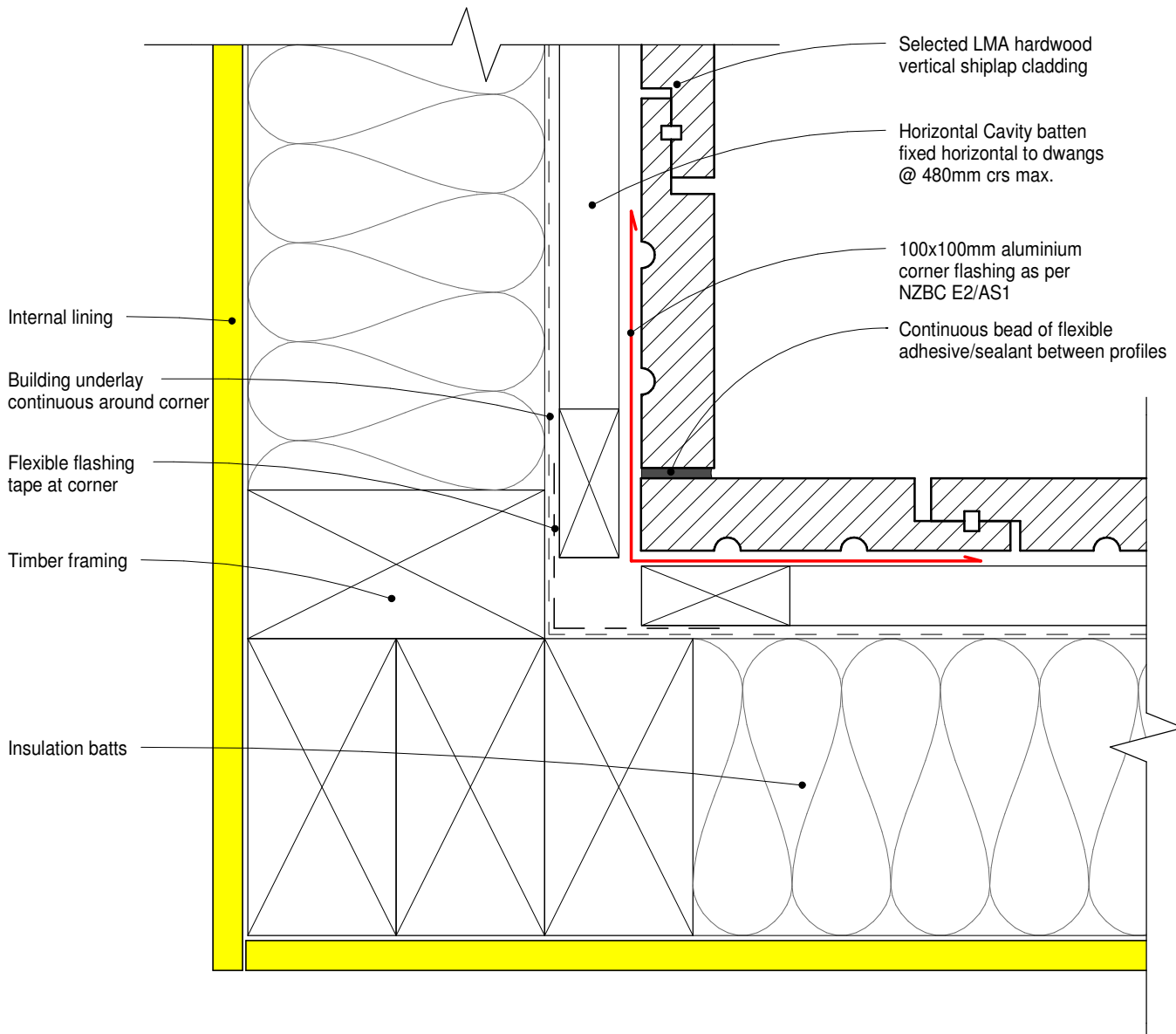
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Internal corner_Mould

• SCALE: 1 : 2@ A4

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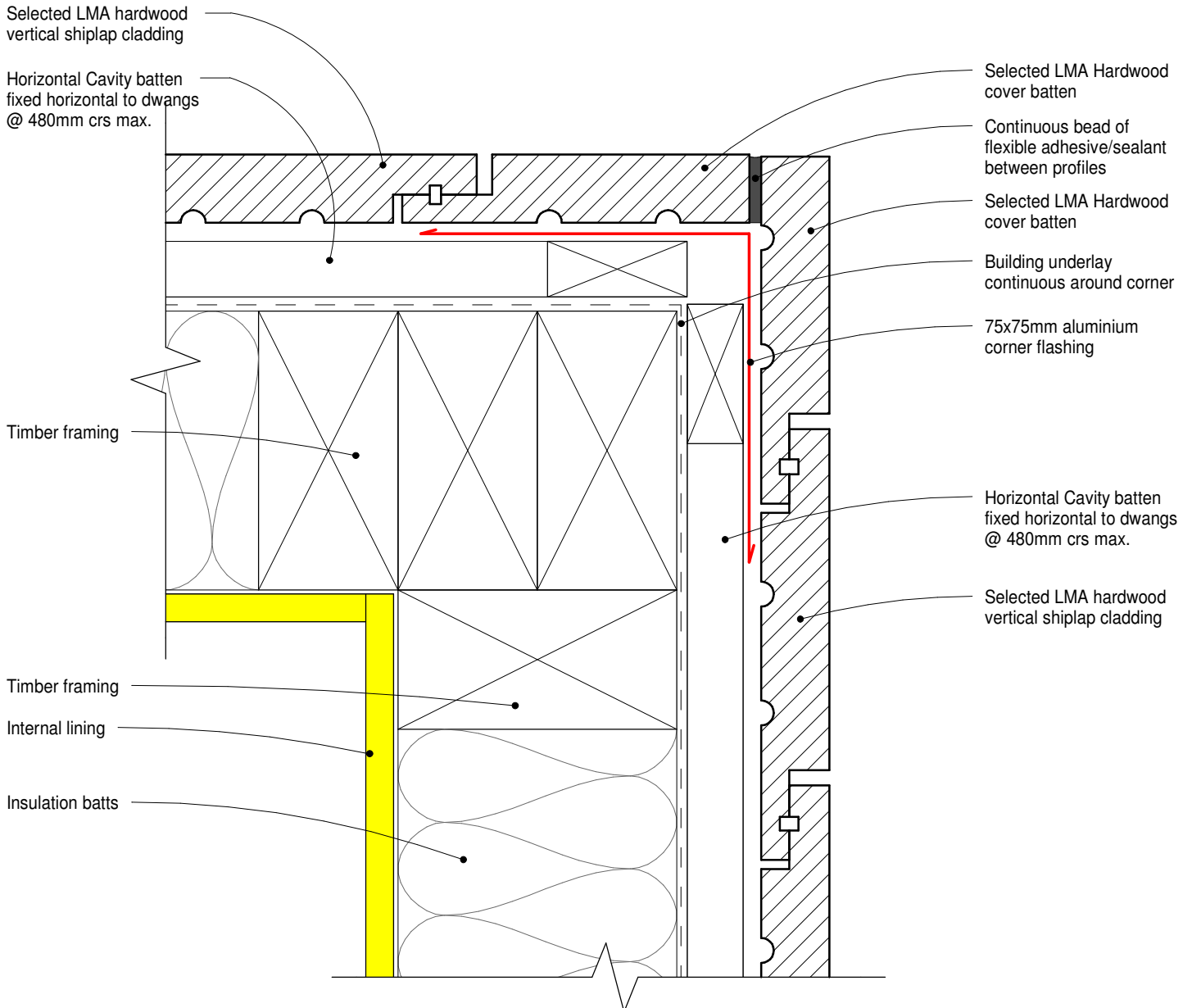
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• DRAWING: Internal Corner_01

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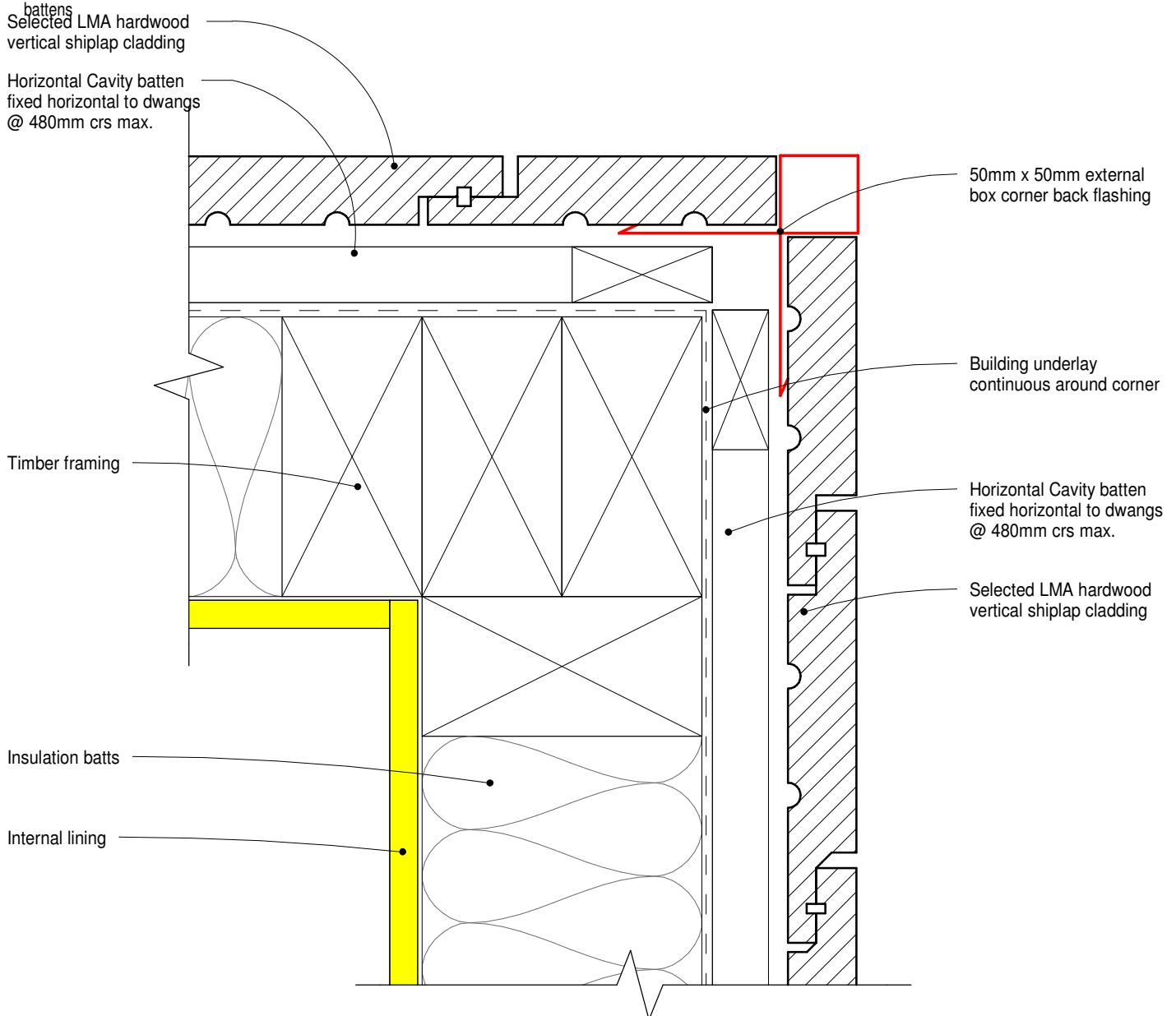
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: External corner_Seamant

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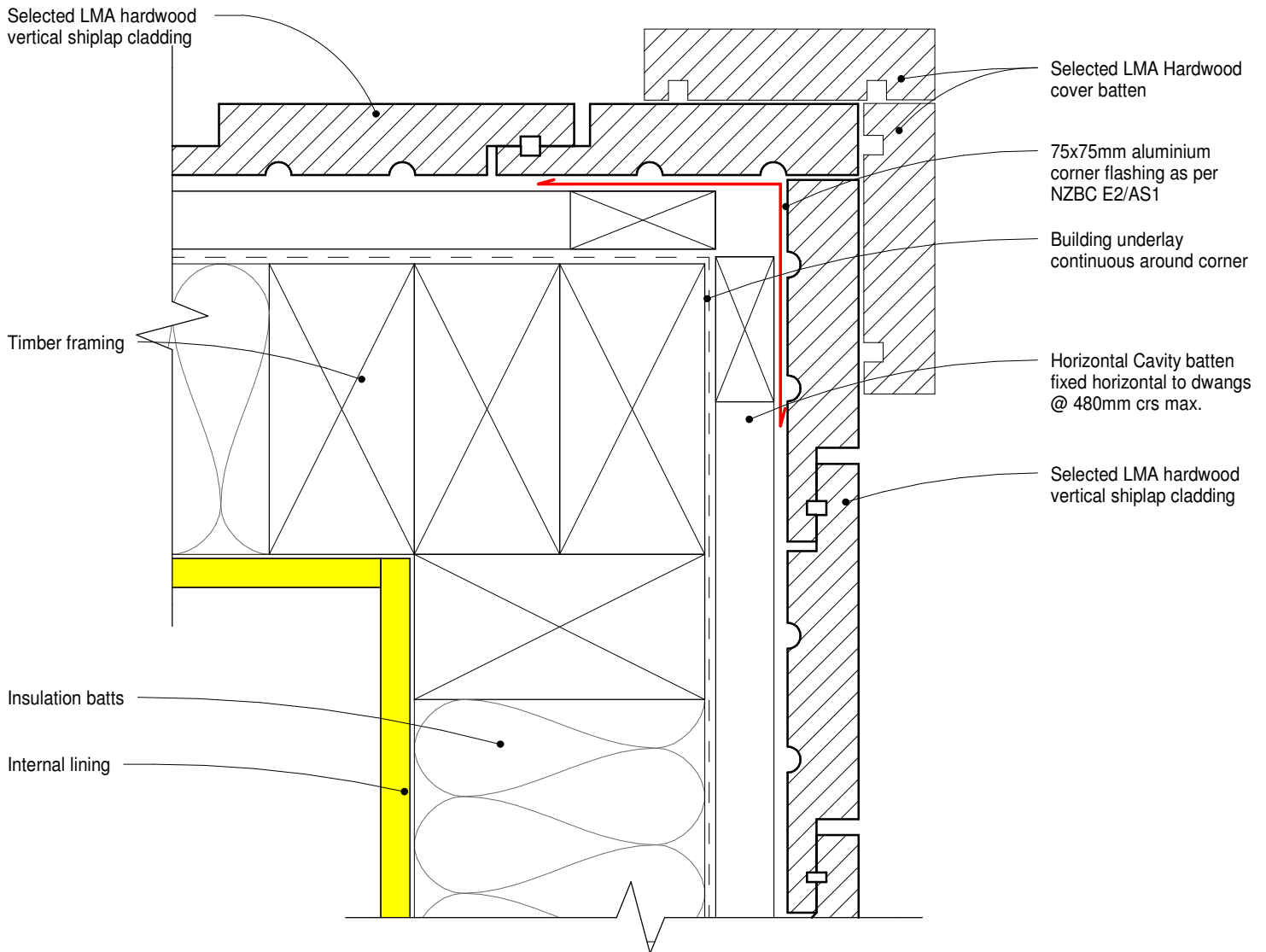
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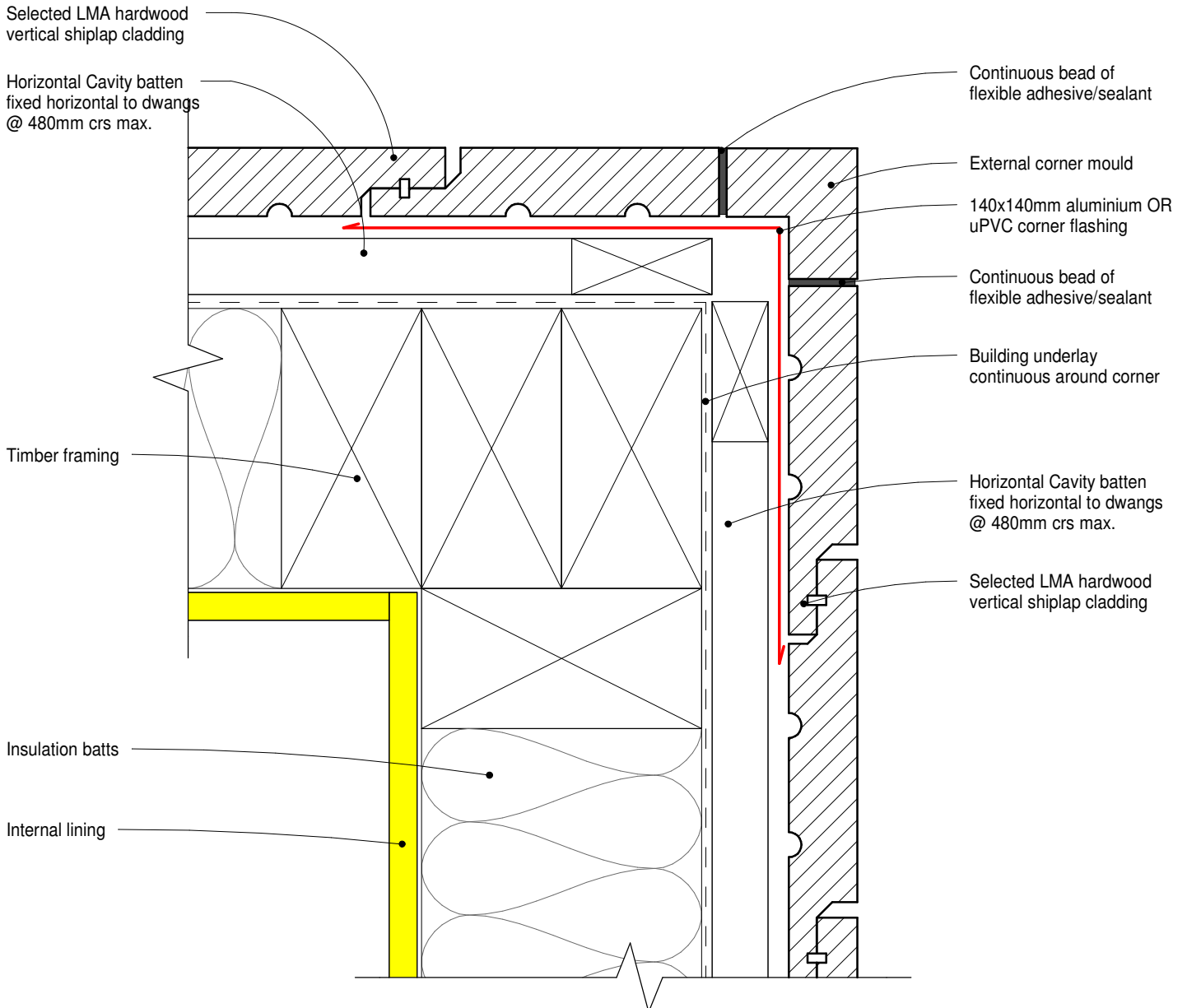
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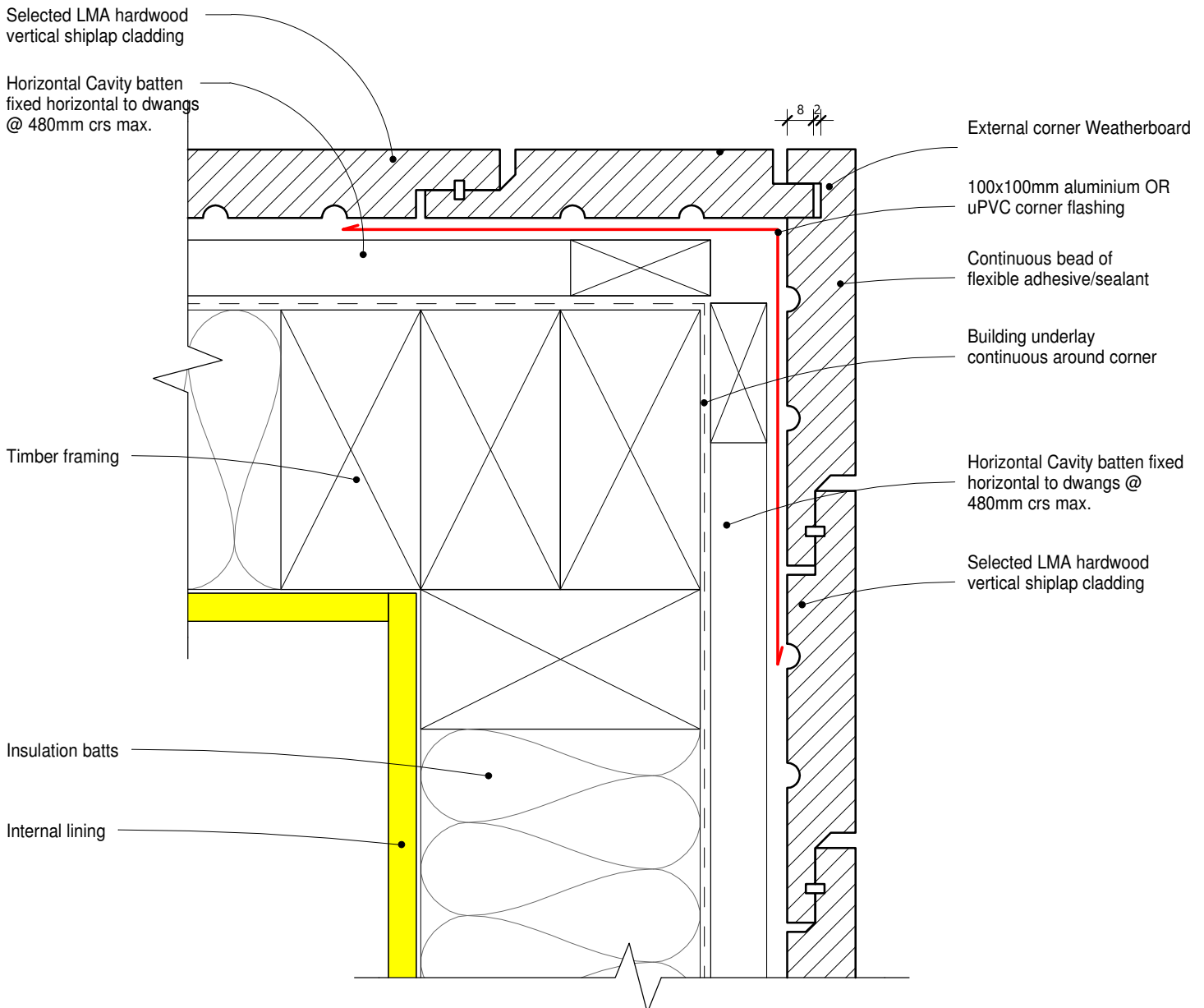
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5. Flashing as per Clause 4.0 E2/AS1
6. Rigid and flexible underlay as per Table 23 and Clauses 9.1.5 to 9.1.7 E2/AS1 or proprietary approved alternative
7. The weatherboard system relies on the joinery meeting the requirements of NZS 4211 for the relevant building wind zone or wind pressure
8. For Structural Cavity battens Cladding must have MIN 30mm penetration into cavity battens



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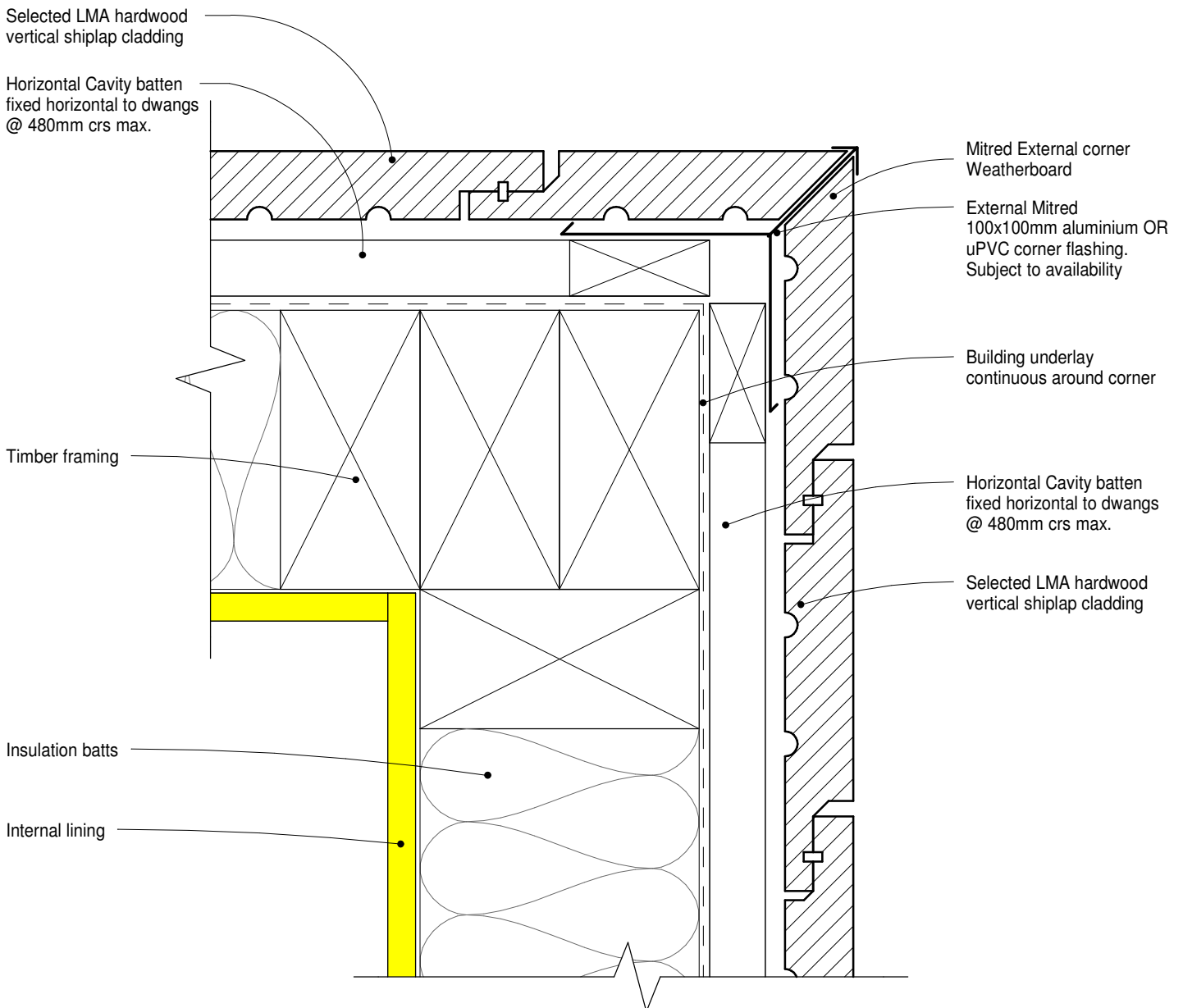
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: External corner_01

• SCALE: 1 : 2@ A4

• DATE: 09/06/2021

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
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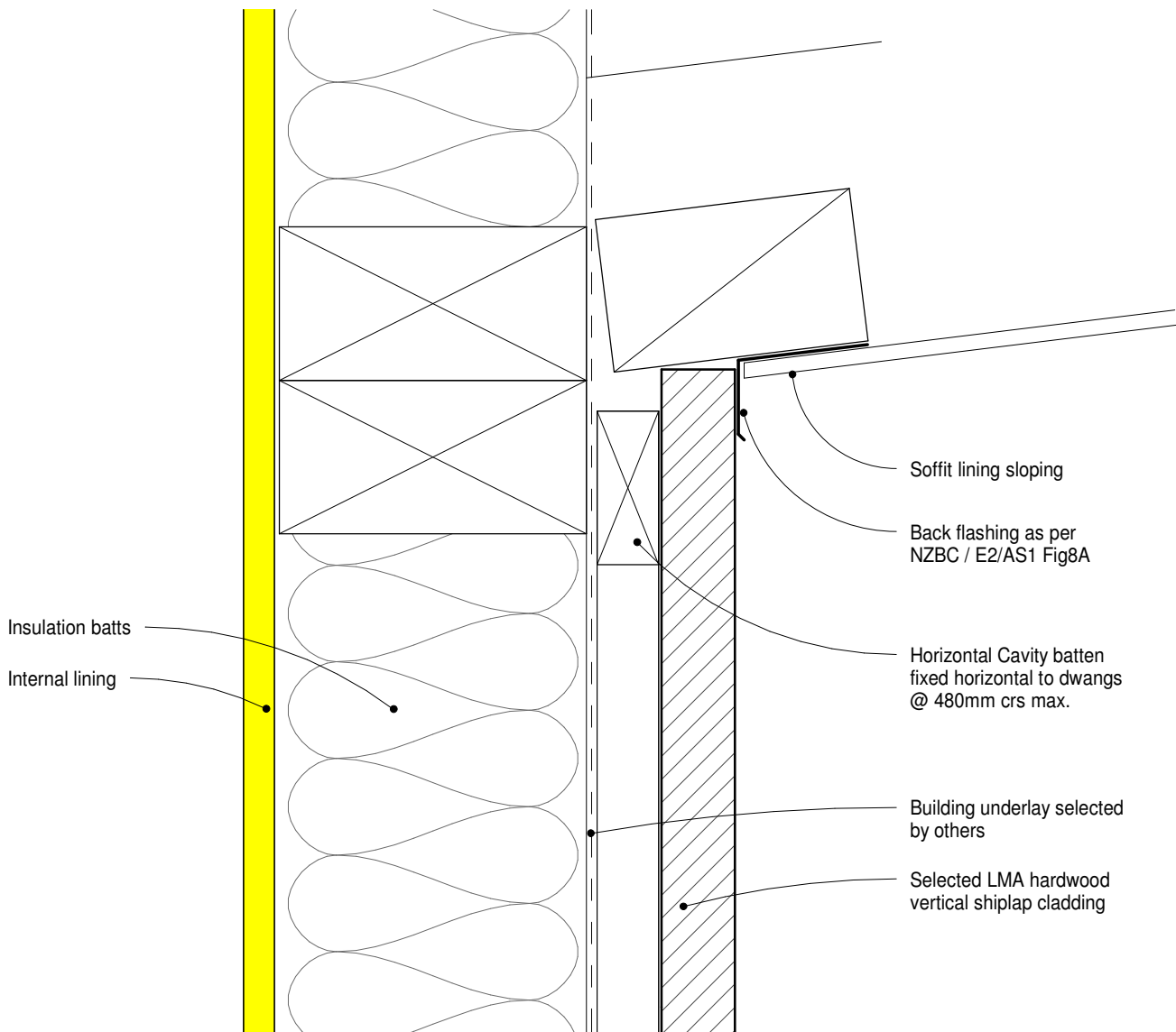
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: External corner 02

• SCALE: 1 : 2@ A4

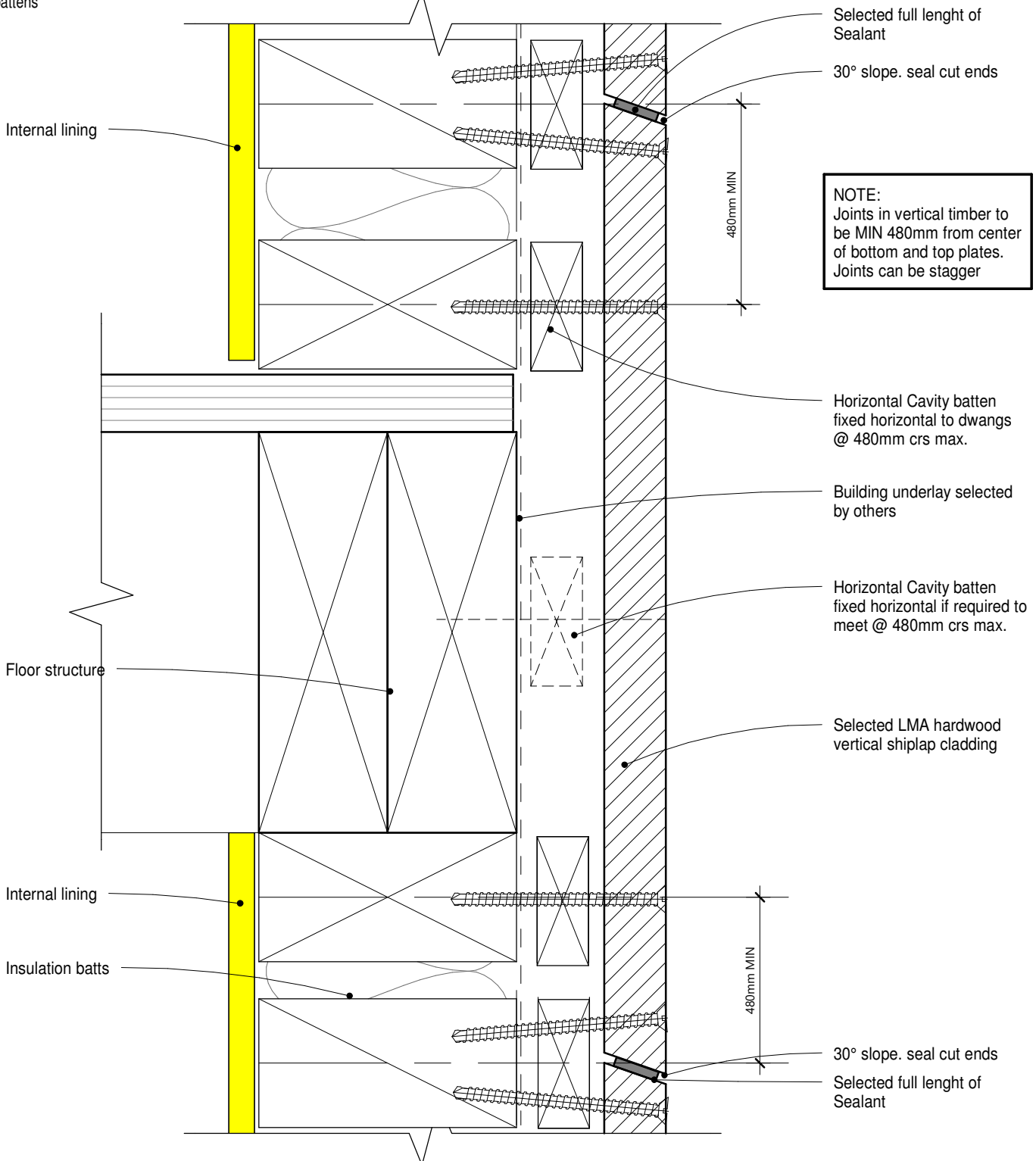
• DATE: 09/06/2021

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2. LMAV001 Profile weatherboard directly matches the NZS3617 profile Fig 5 except for the thickness that is increased from 19mm to 22mm and width increased to 139mm from 135mm. This variation is comparable to the standard profile except for the increased width and thickness, as this is proposed for increased stability with these hardwoods.
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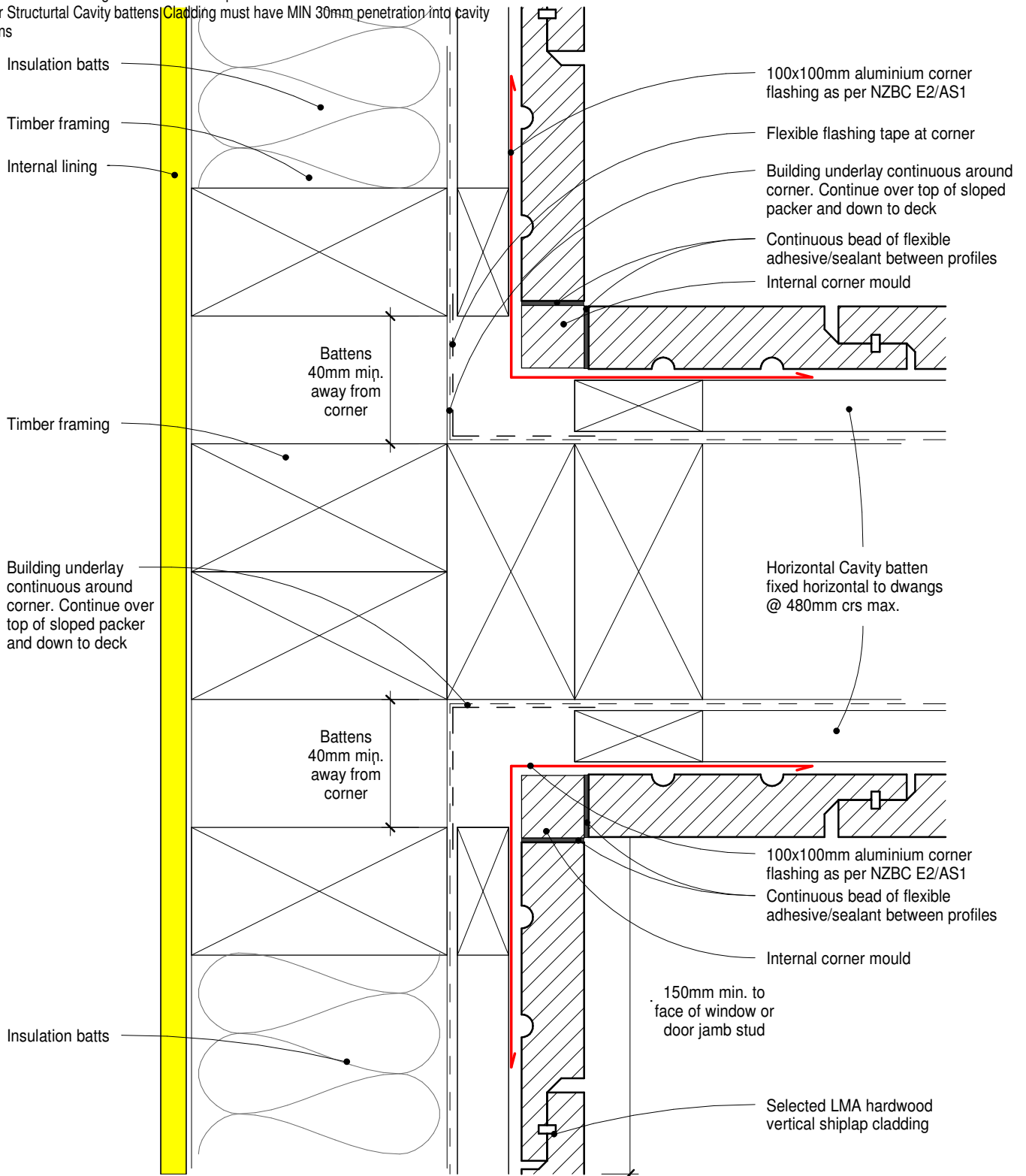
NOTE:
Joints in vertical timber to be MIN 480mm from center of bottom and top plates. Joints can be stagger

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• TITLE: LMA Vertical Shiplap Hardwood Cladding	
• DRAWING: Inter-Storey Joint 01	
• SCALE: 1 : 2@ A4	• DATE: 09/06/2021

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
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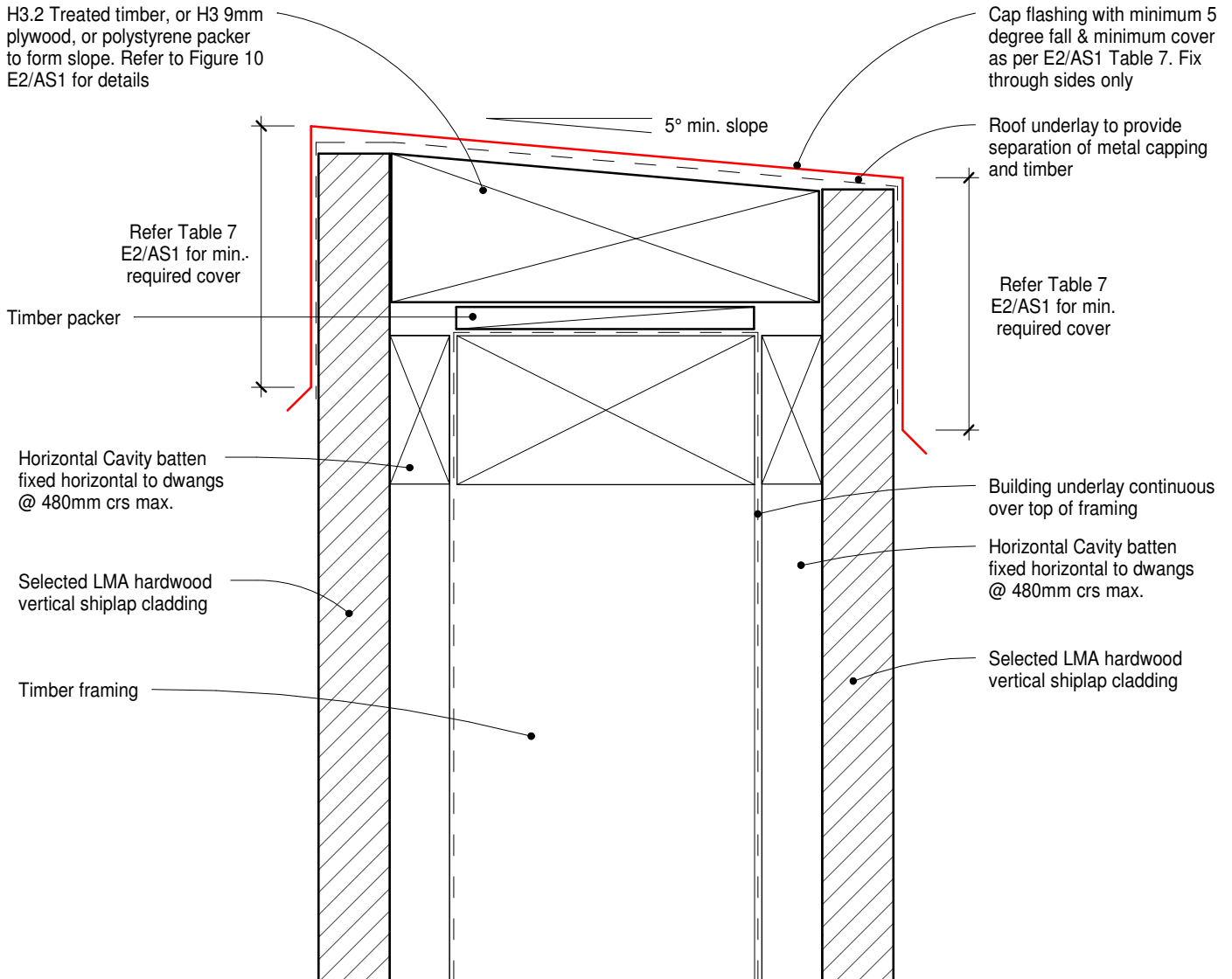
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Enclosed Deck Balustrade to Wall Junction

• SCALE: 1 : 2@ A4

• DATE: 09/06/2021

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
2. LMAV001 Profile weatherboard directly matches the NZS3617 profile Fig 5 except for the thickness that is increased from 19mm to 22mm and width increased to 139mm from 135mm. This variation is comparable to the standard profile except for the increased width and thickness, as this is proposed for increased stability with these hardwoods.
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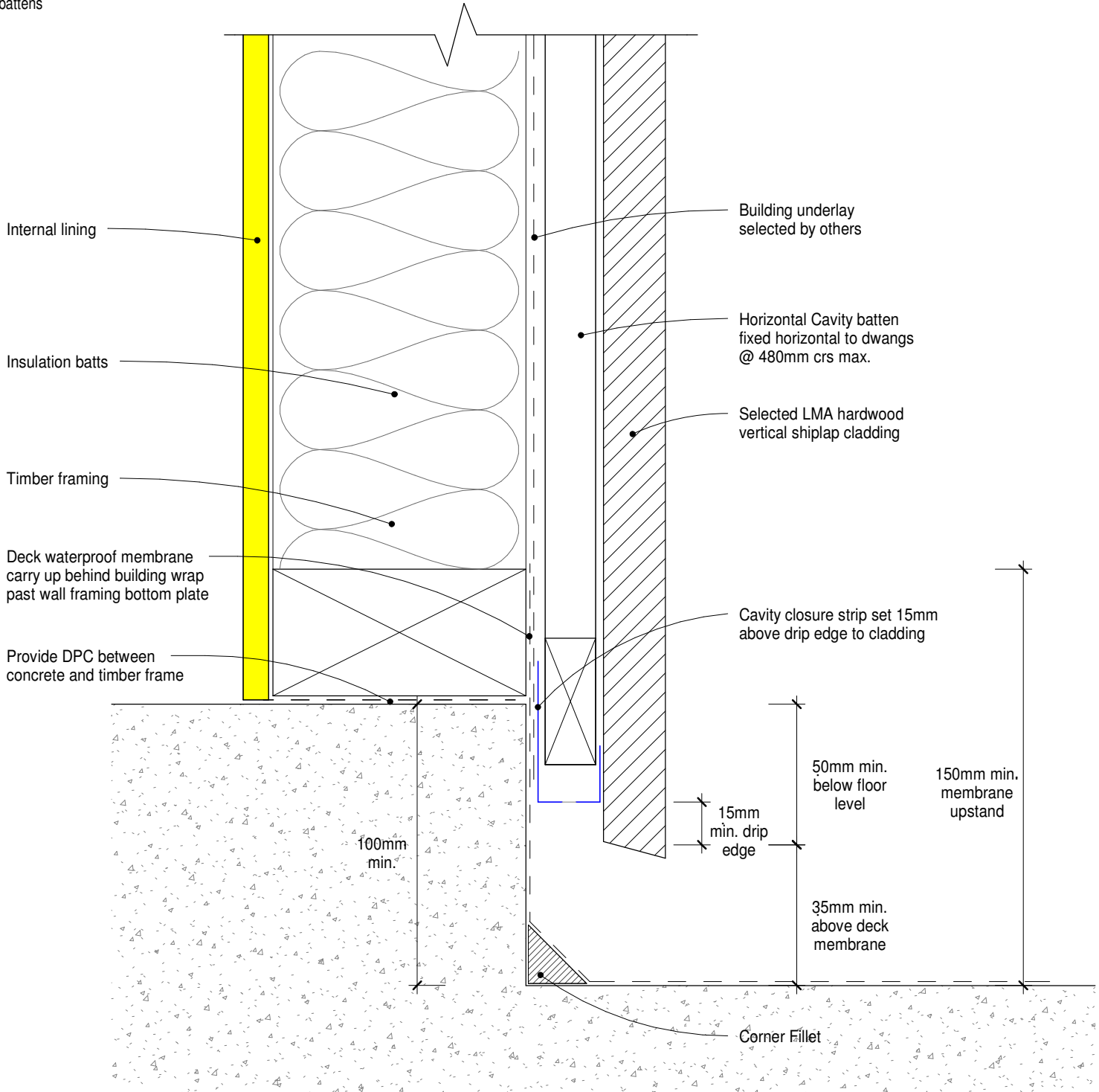
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Parapet Detail

• SCALE: 1 : 2@ A4

• DATE: 09/06/2021

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
2. LMAV001 Profile weatherboard directly matches the NZS3617 profile Fig 5 except for the thickness that is increased from 19mm to 22mm and width increased to 139mm from 135mm. This variation is comparable to the standard profile except for the increased width and thickness, as this is proposed for increased stability with these hardwoods.
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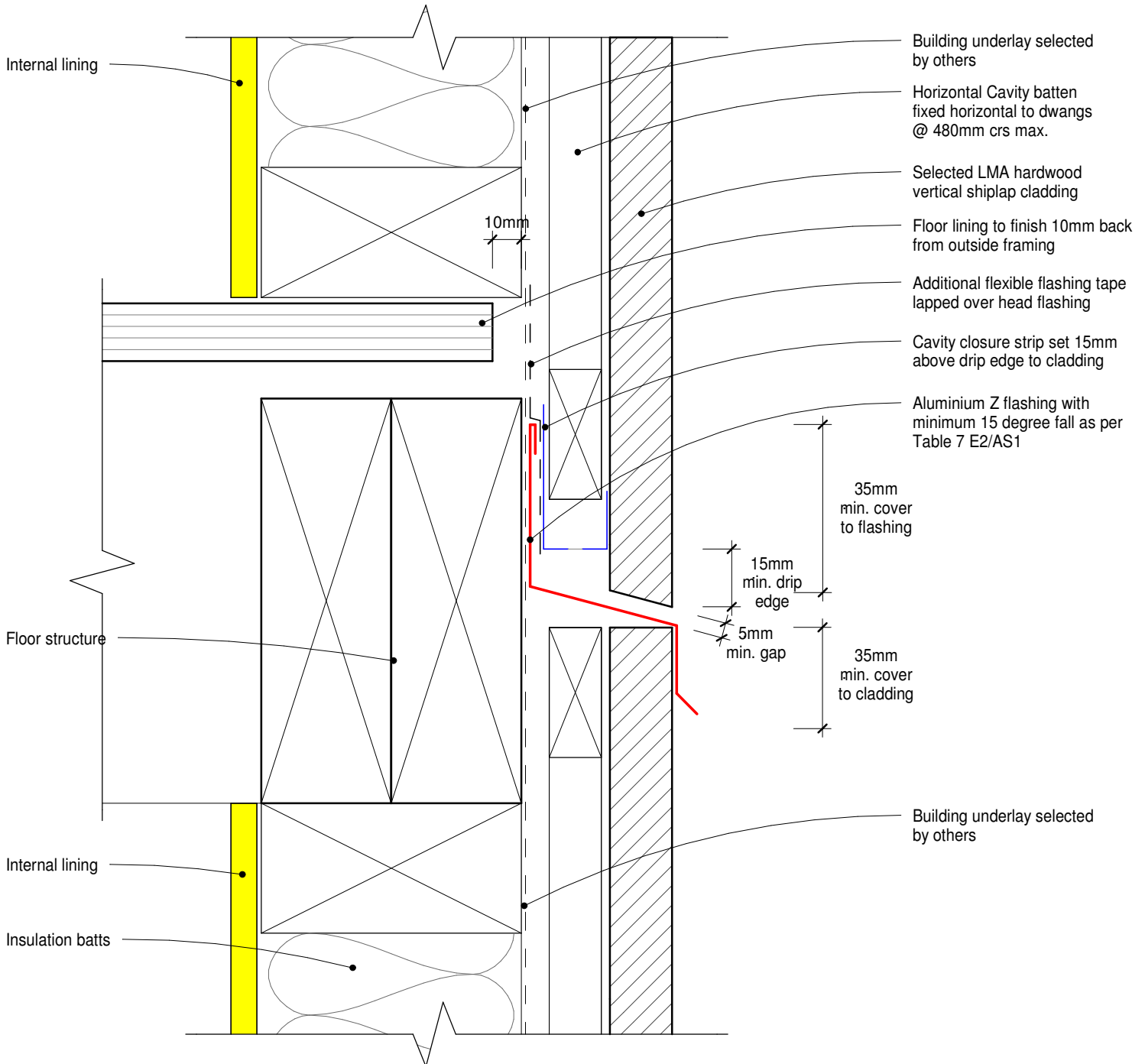
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Vertical cavity at enclosed deck

• SCALE: 1 : 2@ A4

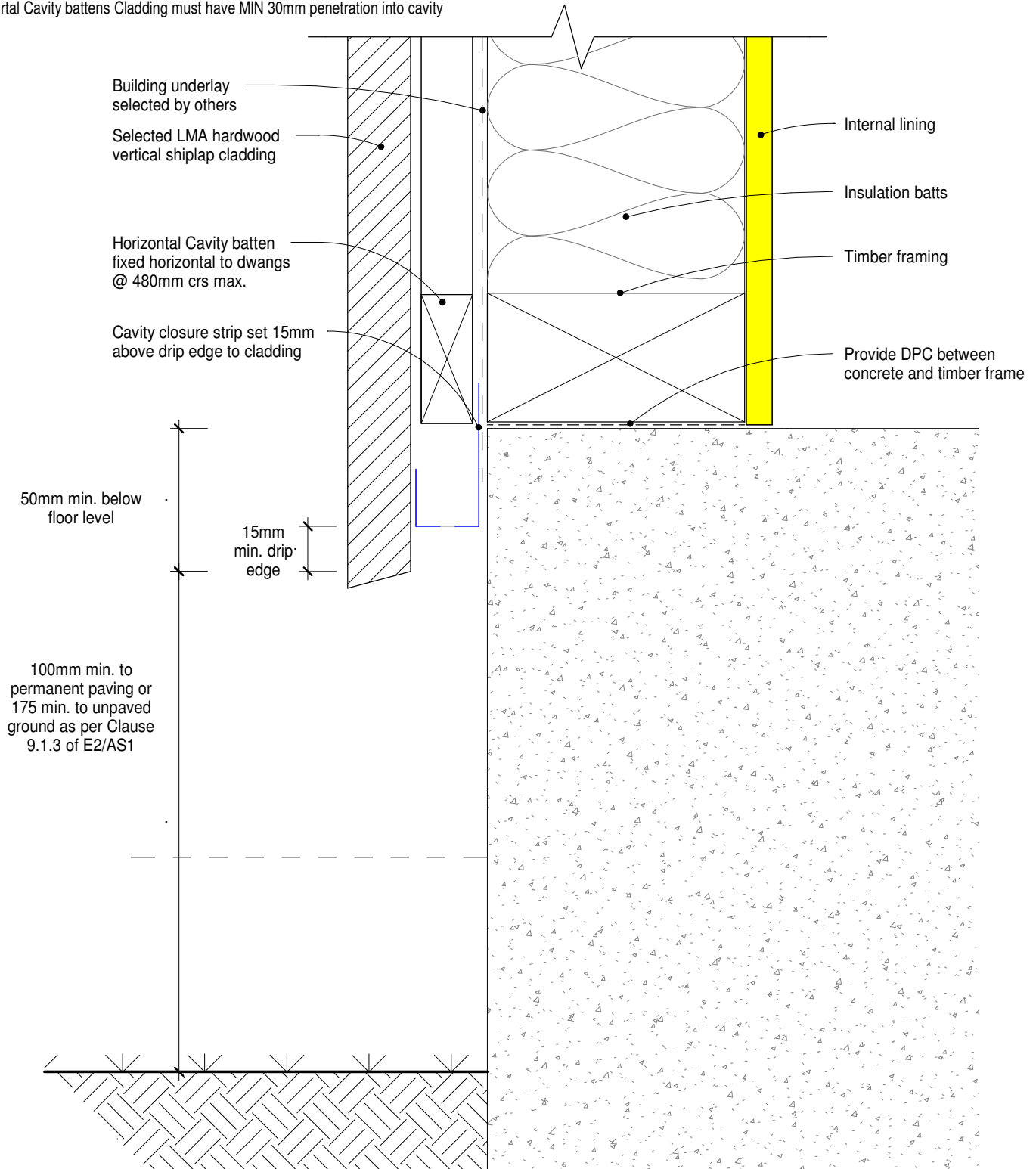
• DATE: 09/06/2021

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
2. LMAV001 Profile weatherboard directly matches the NZS3617 profile Fig 5 except for the thickness that is increased from 19mm to 22mm and width increased to 139mm from 135mm. This variation is comparable to the standard profile except for the increased width and thickness, as this is proposed for increased stability with these hardwoods.
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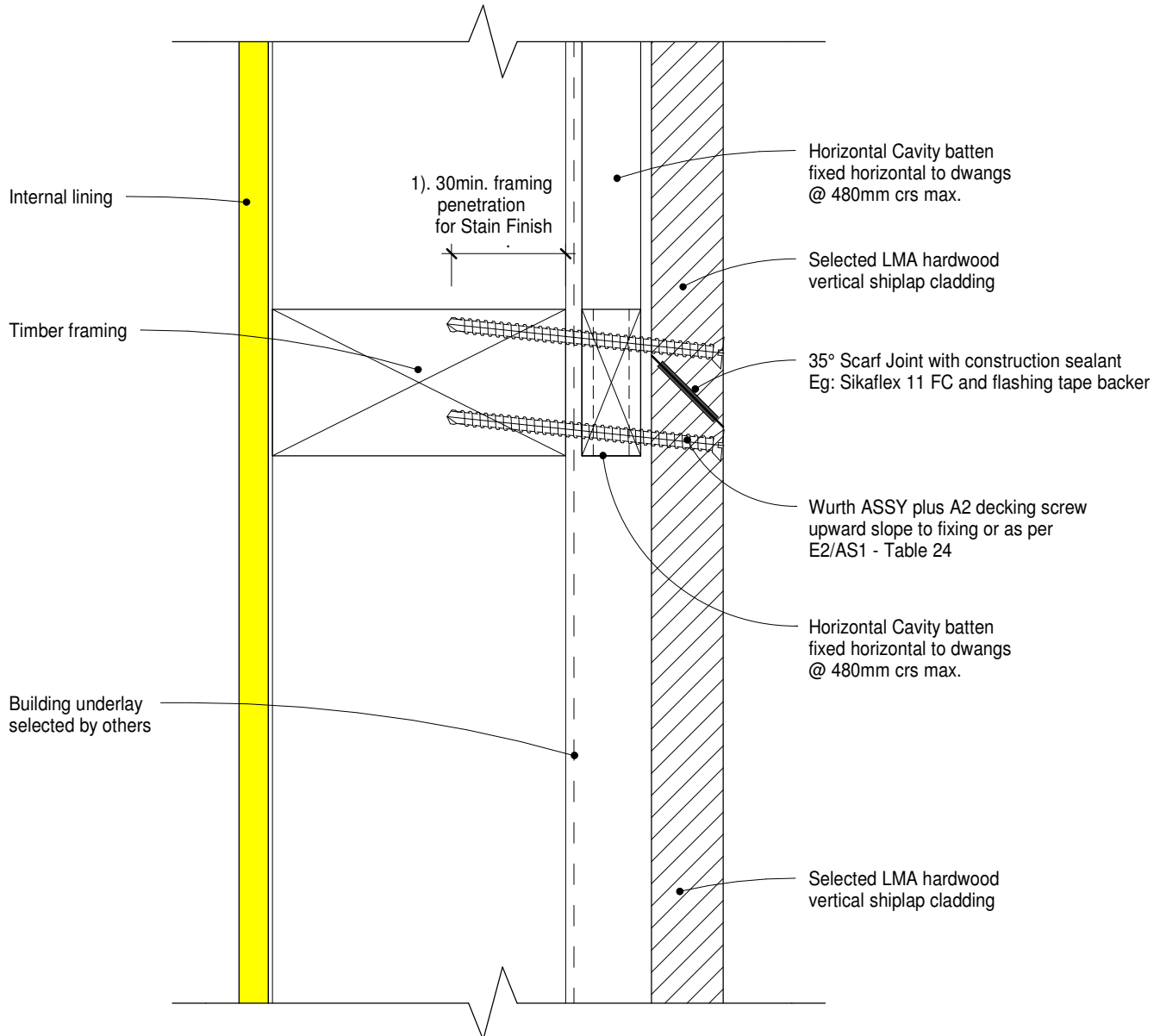
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NOTE:

Cut ends of scarf joint must be double coated with oil or stain.

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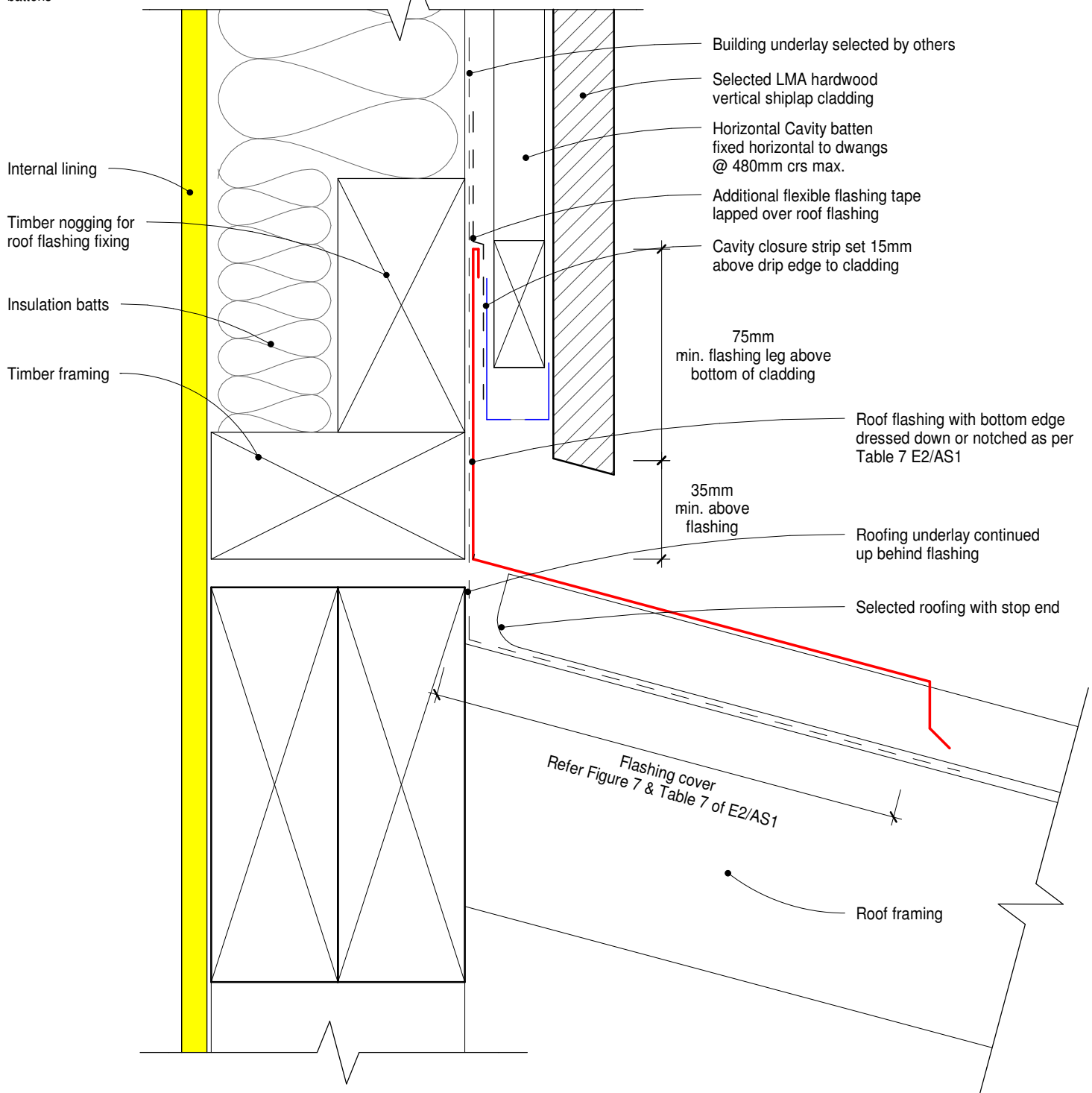
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Scarf Join Stain Finish

• SCALE: 1 : 2@ A4

• DATE: 09/06/2021

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
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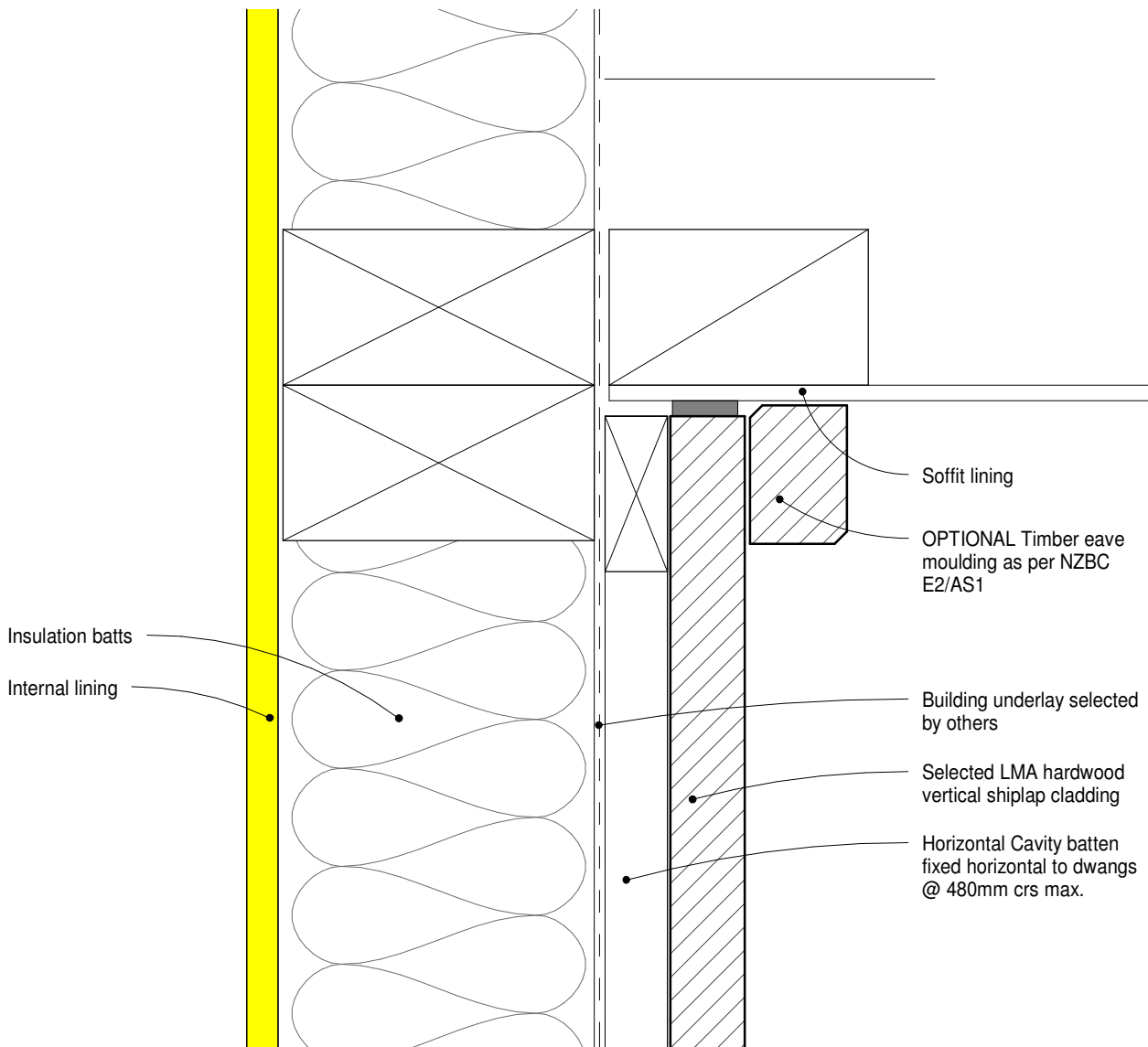


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• TITLE: LMA Vertical Shiplap Hardwood Cladding	
• DRAWING: Roof/Wall Junction apron flashing detail	
• SCALE: 1 : 2@ A4	• DATE: 09/06/2021

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
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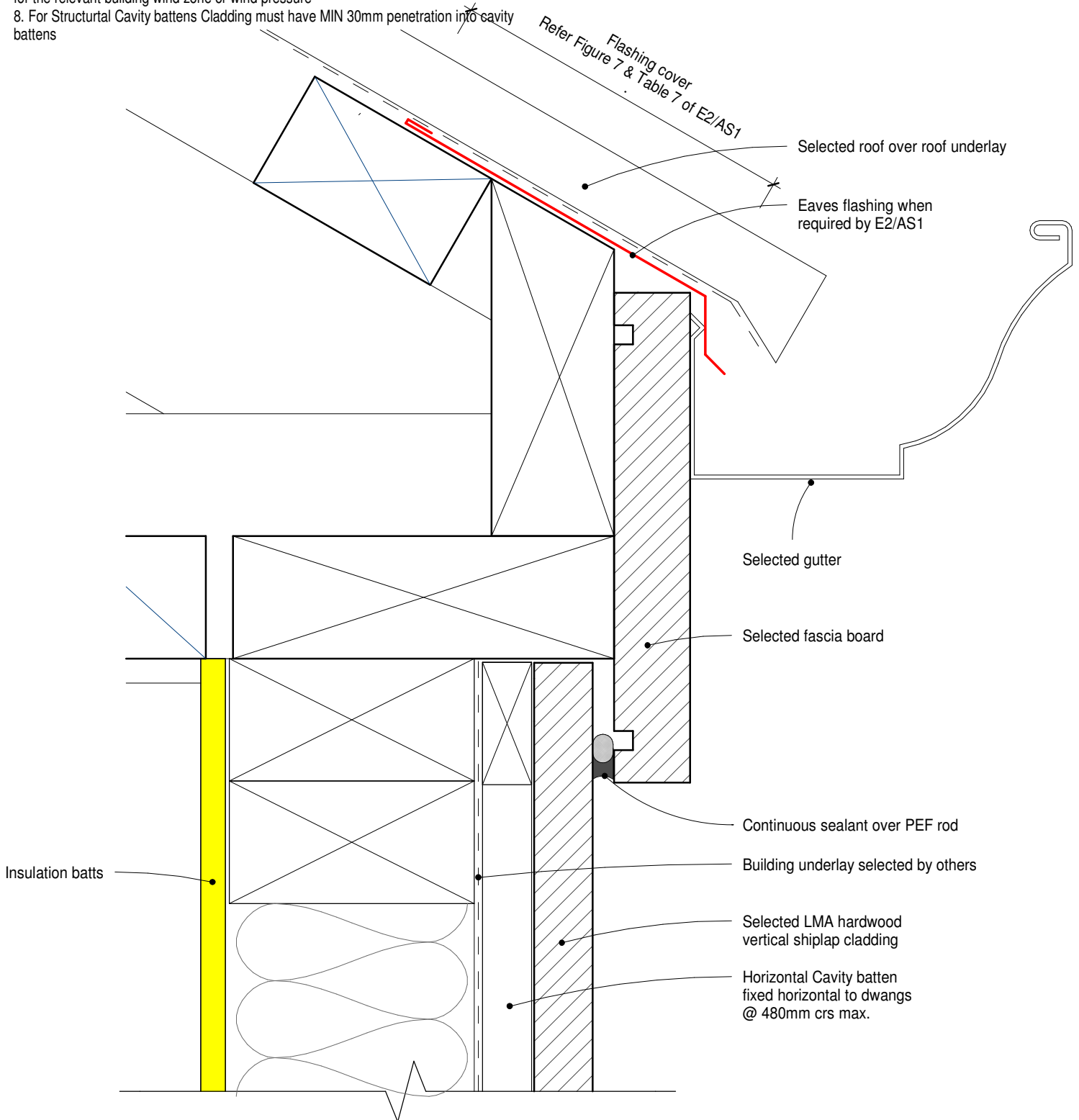
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Soffit Detail_Overhang

• SCALE: 1 : 2@ A4

• DATE: 09/06/2021

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
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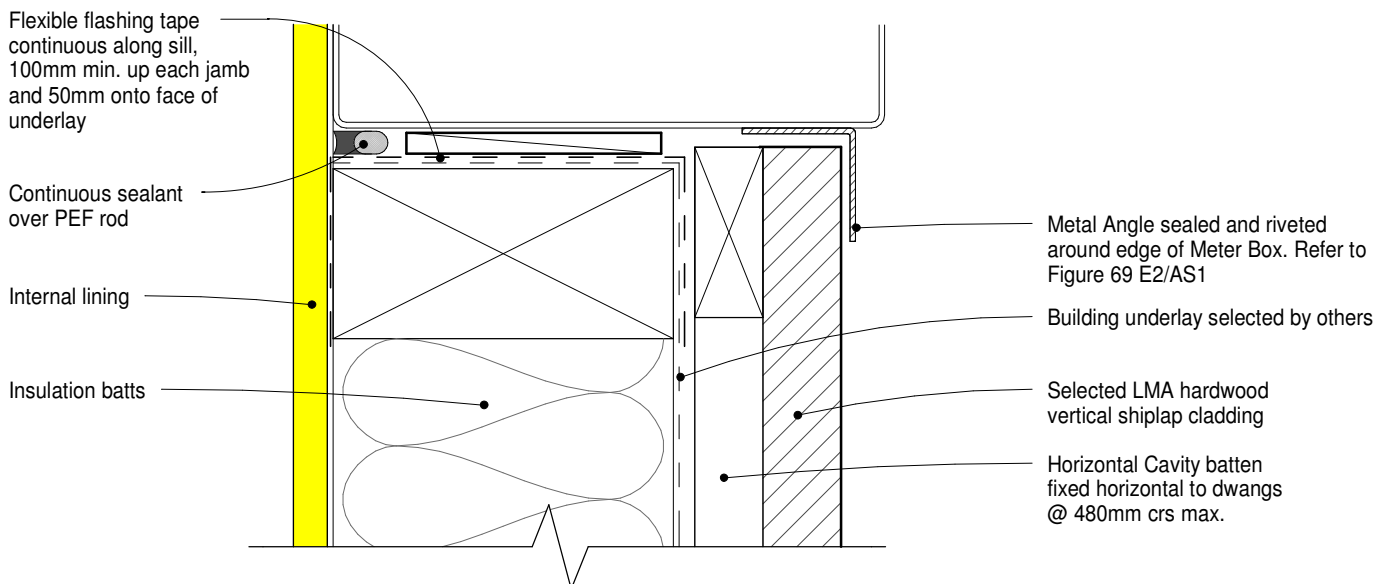
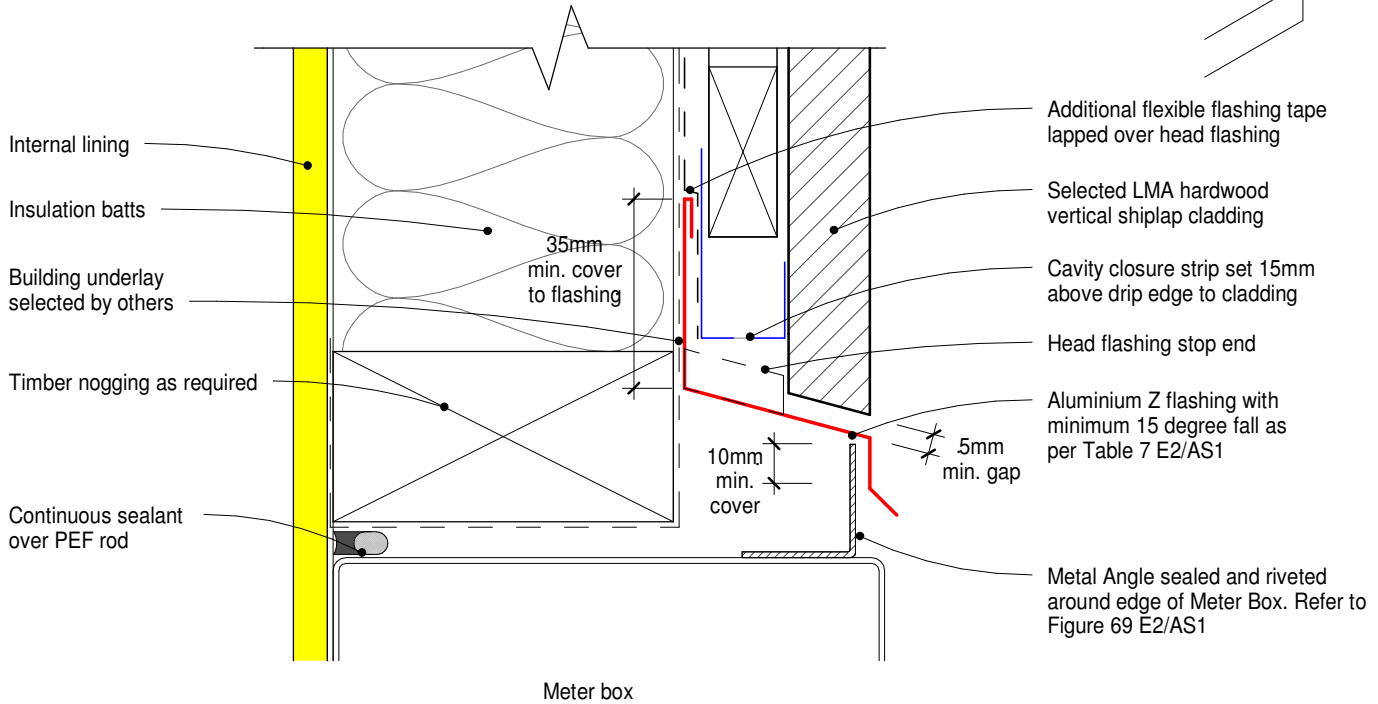
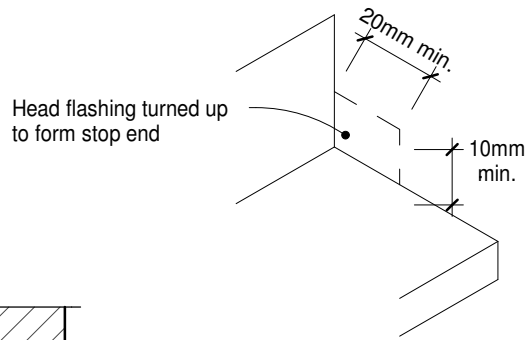
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Eaves Detail_No Overhang

• SCALE: 1 : 2@ A4

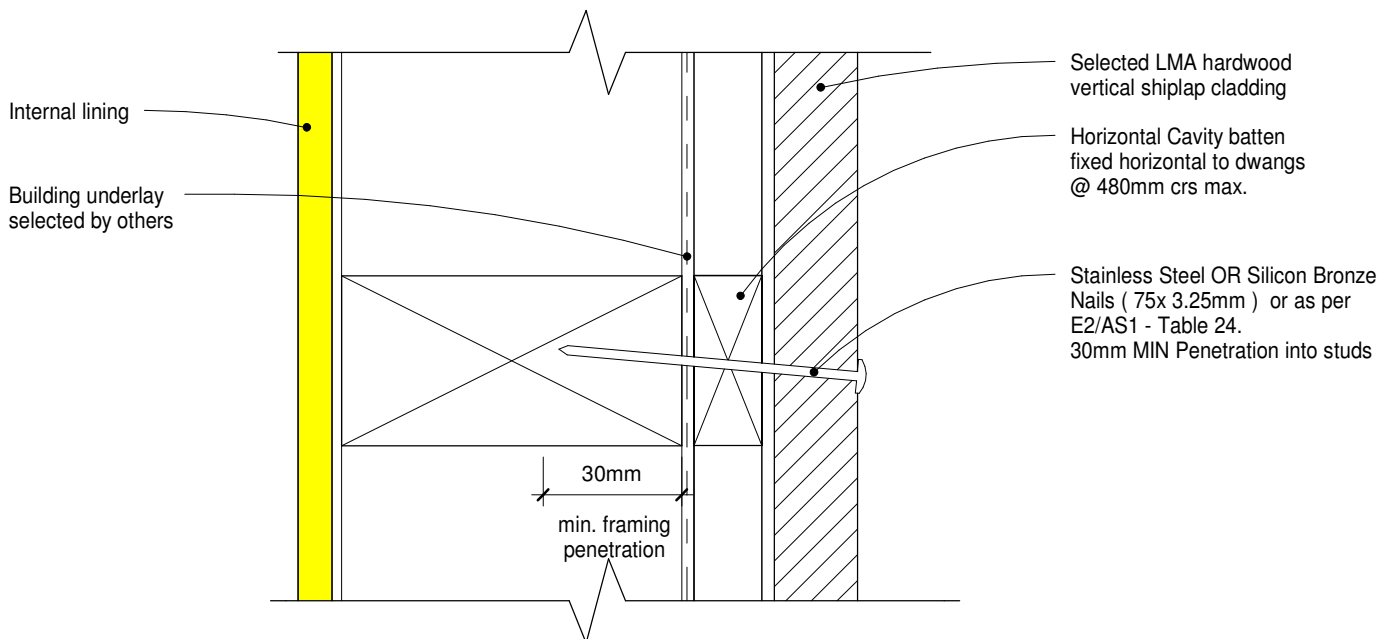
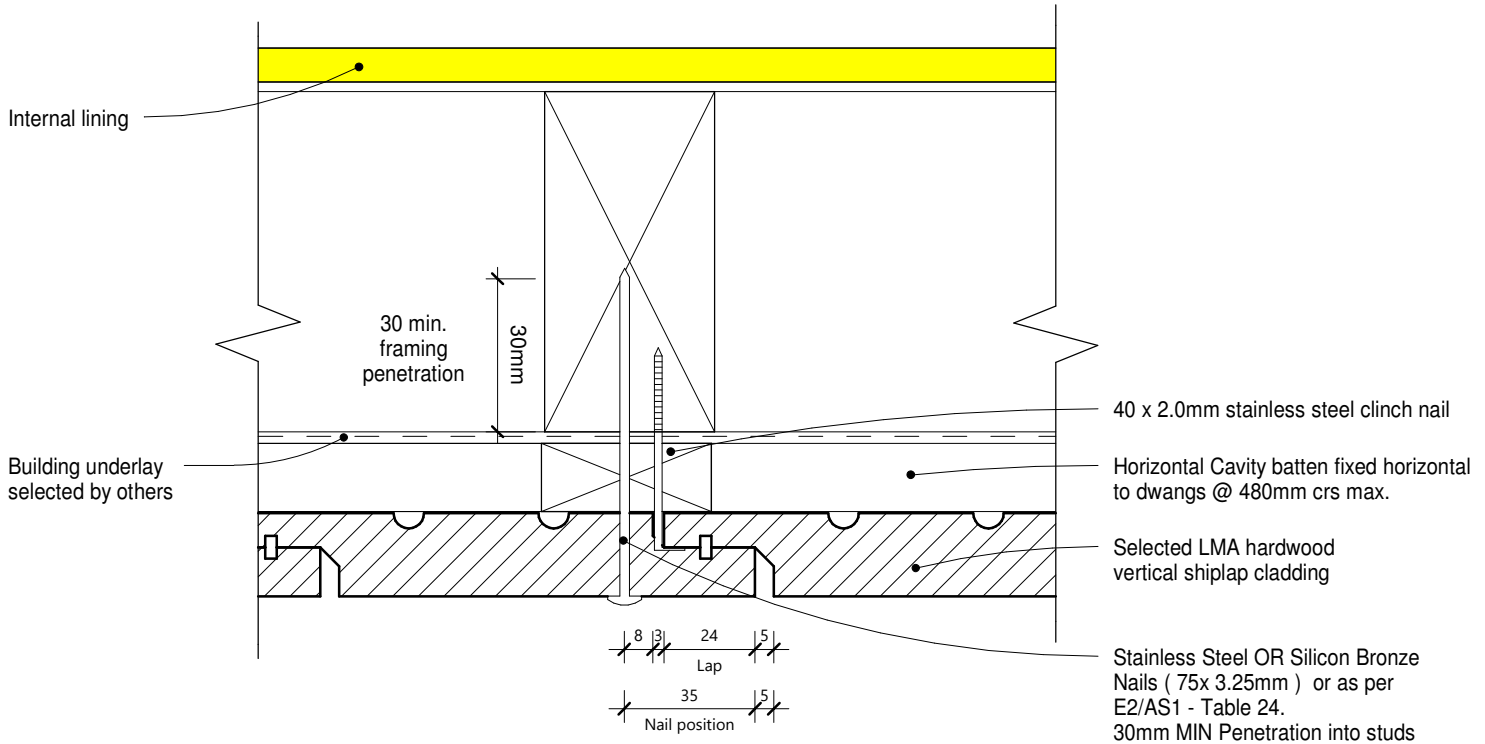
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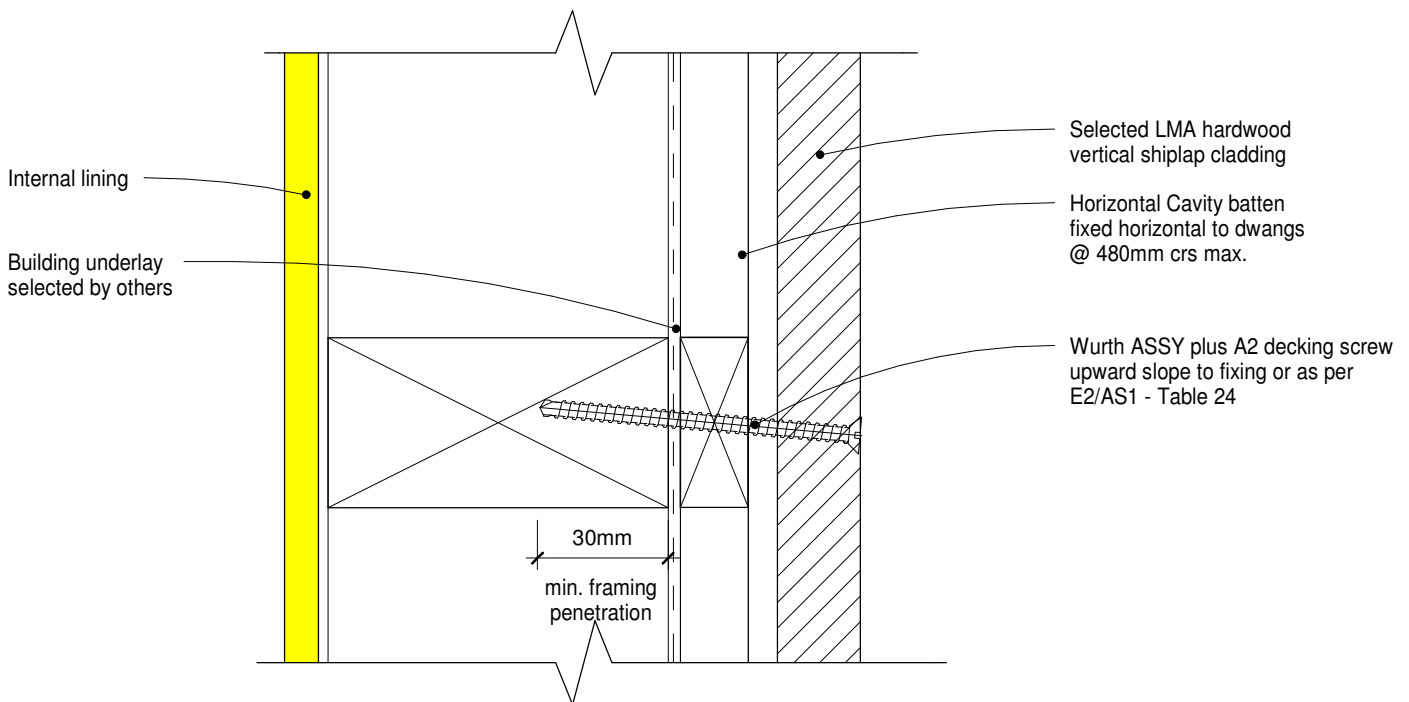
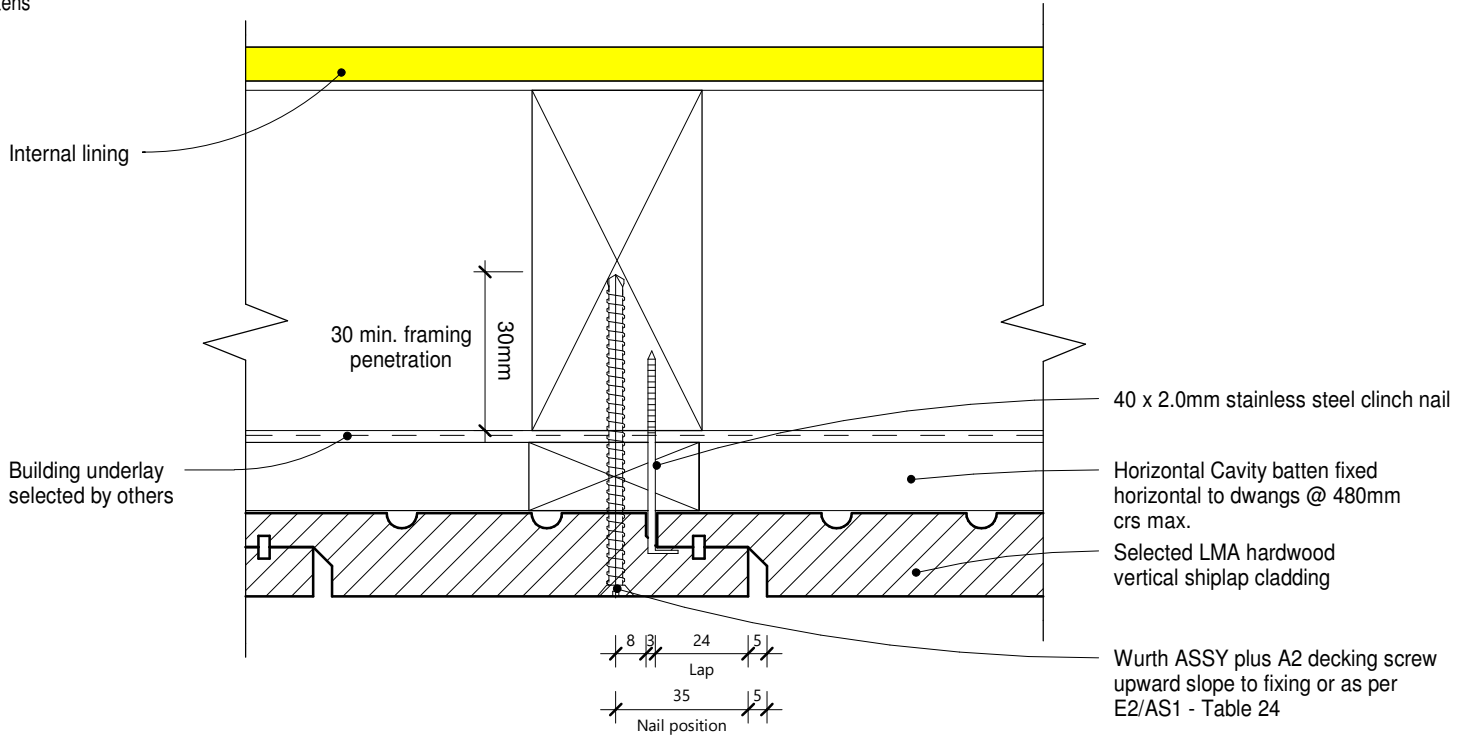


NOTE:
Jamb detail similar to sill

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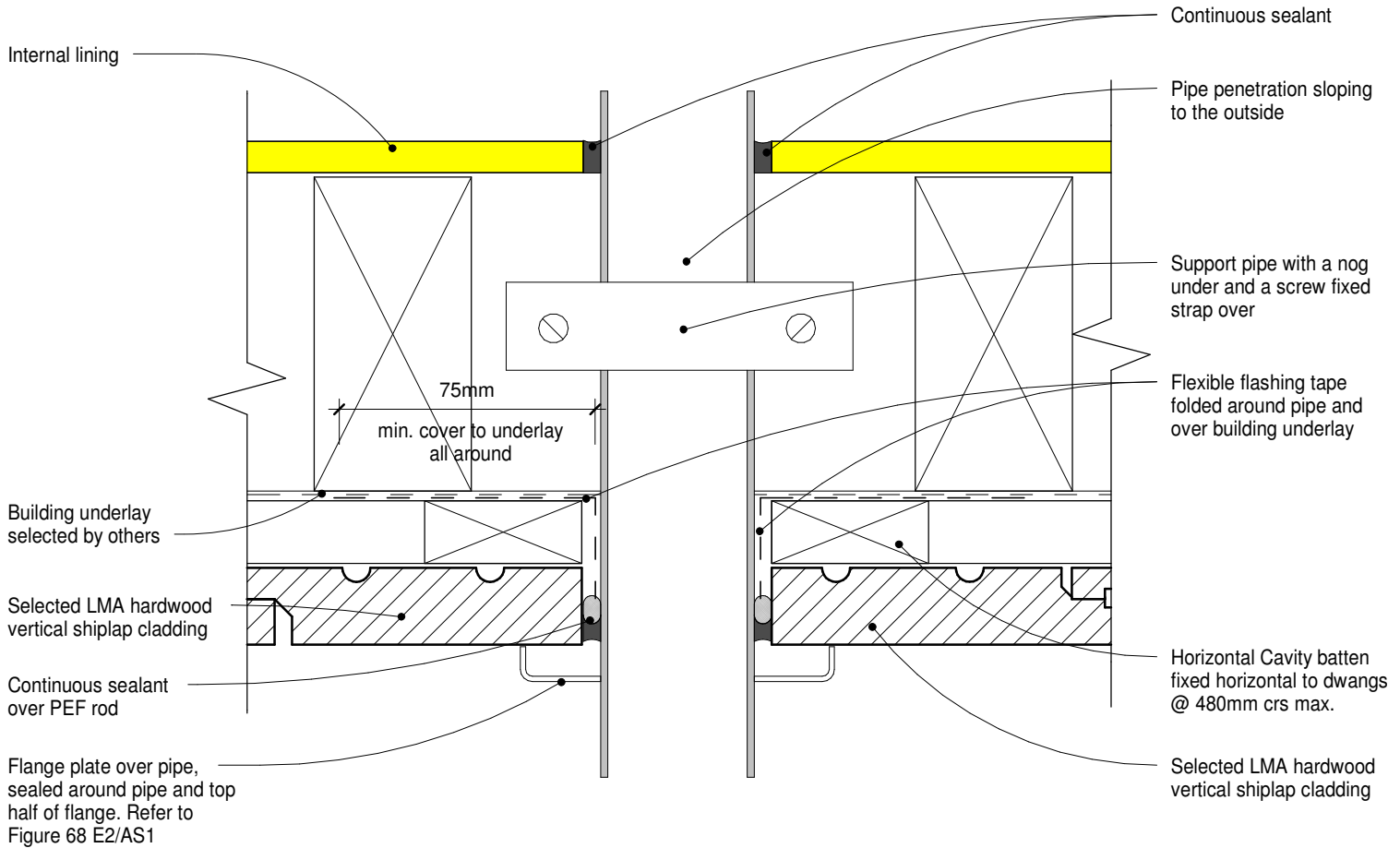
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: General Screw fixing detail_Paint finish

• SCALE: 1 : 2@ A4

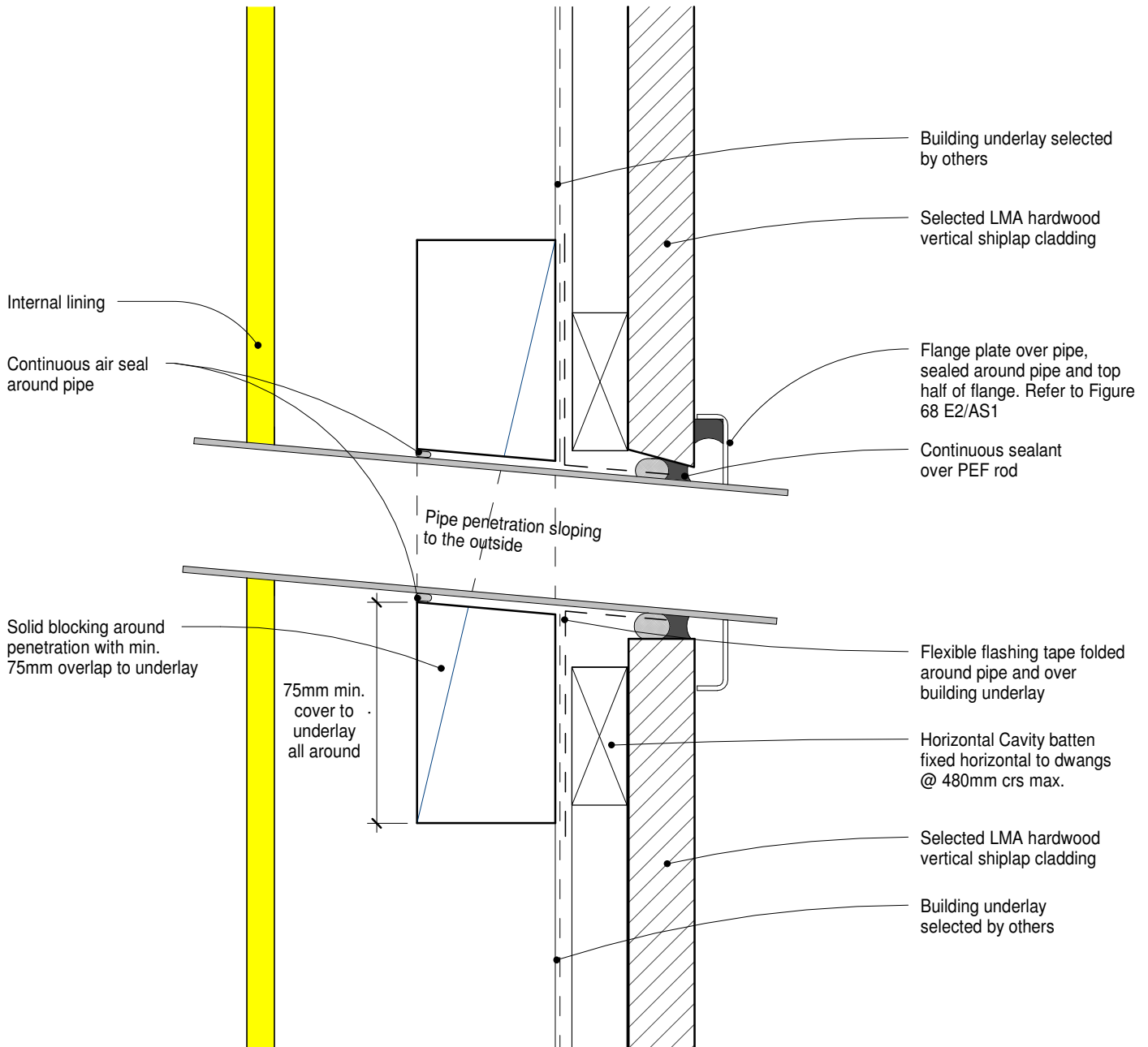
• DATE: 09/06/2021

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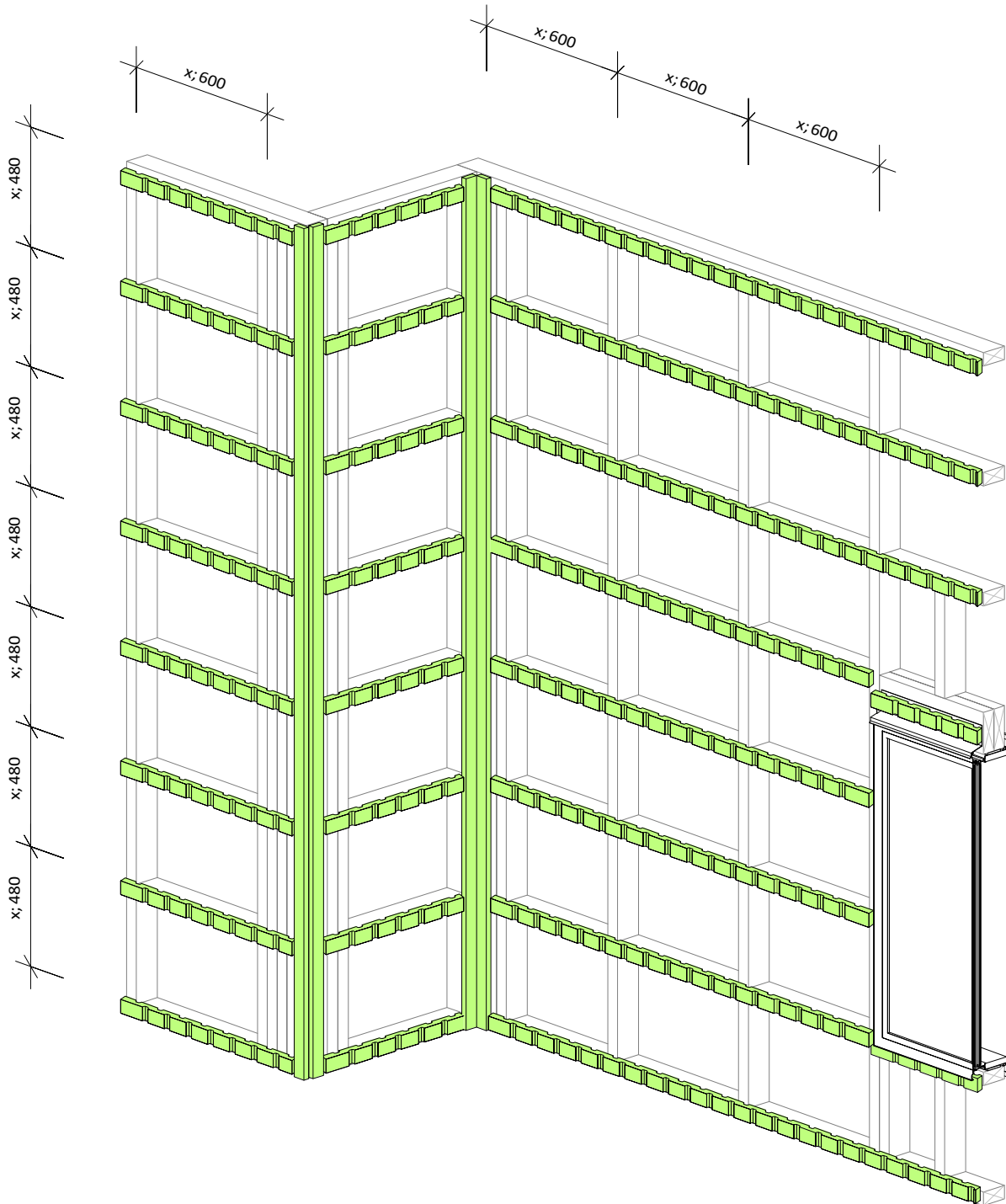
• TITLE: LMA Vertical Shiplap Hardwood Cladding

• DRAWING: Pipe Penetration Detail

• SCALE: 1 : 2@ A4

• DATE: 09/06/2021

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Material Storage:

The cladding will be supplied with weatherproof wrap, we recommend this is inspected for damage during transportation and any damage repaired. Packs should be stored on packers to maintain at least 150mm ground clearance, be supported on dry and clean timber bearers at maximum 900 mm centres and stored on a level surface. Once the packing straps are removed the pack should be stropped tight to maintain pack integrity especially if it is to sit for an extended period of time.

The weatherboards must be kept dry at all times either by storing within an enclosed building or when stored externally an additional secondary cover to the plastic wrapping is required. Care must be taken to avoid damage to edges, ends and the weatherboard surfaces.

Moisture Content In Timber

To meet New Zealand MPI / Customs standards, LMA Timbers Australian Hardwood must present at between 9 and 14% moisture content – this is confirmed through kiln dried certification upon custom clearance.

Throughout New Zealand, we have a variance in our EMC (Equilibrium Moisture Content). Timber is affected by this as it is the relative humidity of the air and air temperature it is in contact with causing it to shrink or expand until it finds its equilibrium.

With this in mind, we highly recommend that in order for the timber to acclimatise to its environment and to help ensure minimal movement once installed that it is stored on the actual building site for a number of weeks and filleted (6mm minimum gap between cladding boards) allowing air to freely flow between the boards.

Please ensure to keep the pack stropped tight once filleted to maintain the timbers integrity, especially if it is going to sit for an extended period of time.

Substrate prep (Refer Selected LMA Hardwood Cladding Detailing)

LMA recommends our hardwood cladding is used over a E2 compliant drained and vented cavity system. Timber castellated horizontal cavity battens at 480mm max vertical spacing are recommended. Either 20mm battens fully supported by structural blocking or 40mm+ structural cavity battens are acceptable.

Installation:

Our preferred fixing is the Würth 70mm x 5.5mm Assy Plus Stainless Steel Self Drilling Decking Screw. 75mm x 3.25mm rose head annular groove S/S or Silica Bronze nails can also be used.. Pre-drilling is advised for both screw and nail options but is a must when closer than 100mm from the end of a board. Refer drawings on pages 27 and 28 of LMA Timber Vertical Shiplap Detailing Documentation. Screws and nails must penetrate a minimum of 30mm into the stud or structural cavity batten.

Placement of fixing is 35-40mm in from lap edge through the full thickness of the board as per our detailing refers.

Clinch nails must be used under the lap to maintain a 2mm expansion gap at the rear face at all times.

Timber Oiling of Laps, Weather Groove and Back

All 4 sides of the timber including lap joints and ends **must be sealed with oil**, this includes the board lap and weather groove.

LMA timber recommends using Dulux's Intergrain Natures Oil - Natural (tint colour). We have a nationwide deal with Dulux so that you receive up to 20% discount on the recommended retail price. Please use our cash trade account number when purchasing - LMA Timber 139658.

Joining of boards:

Bottom edges should be cut with an angle of 15deg+ away from the building to create a drip edge **and must be sealed**.

All board joints should be spliced horizontally with a cut angle of 30deg+ with the splice draining to the exterior face and **both cut ends sealed**. An unsupported board overhang of no more than 70mm is recommended. Please refer to page 22 of our Vertical Shiplap Detailing document - Drawing - Scarf Join Stain Finish.

All boards must be fully fixed off within a reasonable time frame to avoid any movement due to moisture exposure and thermal stresses.

Maintenance:

Building owners are responsible for the maintenance of LMA Timbers Hardwood Cladding Systems. Annual inspections must be made to ensure that all aspects of the cladding system, including flashings remain in a weatherproof condition. Any damaged areas or areas showing signs of deterioration which would allow water ingress, must be repaired immediately. Sealant, coatings, flashings or the weatherboards must be repaired in accordance with the relevant manufacturer's instructions.

Annual Timber Cleaning

Regular cleaning (at least annually) of the surface finish with water and a mild detergent is recommended to remove grime, dirt and organic growth (such as mould) to maximise the life and appearance of the cladding.

Re-coating of Oil / Stain

Our Australian Hardwood cladding is a class 1 (majority) or class 2 timber (Silvertop Ash / Fijian Mahogany) as per AS 5604-2005 Timber—natural durability ratings. This means class 1 timber has 40 year plus natural durability and technically does not require further oiling / staining for 15 years as long as our installation and maintenance guidelines are strictly followed.

However, oiling / staining the timber every 2-3 years will increase its durability to in excess of 40 years plus when the oil has a UV stabiliser. It will also help to preserve the original colour of the timber at the time of installation to minimise the silvering off effect due to the strong UV rays we experience in New Zealand.

If no oil / stain is applied over time and the timber has been installed as per the installation guidelines, the timber will naturally silver off without its 15 year durability warranty being compromised.

Health and Safety:

Cutting of LMA Timber cladding must be carried out in well ventilated areas and dust masks, gloves, eye and hearing protection must be worn.