BRANZ Appraised
Appraisal No.1063 [2019]

TRICLAD
CLADDING SYSTEMS

Triclad Lapped Weatherboard

Installation Guide and Specification

October 2019

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Contents

1. Product Description

Triclad Weatherboards and accessories are manufactured or supplied by Triclad Holdings Ltd. It is a lightweight cladding system suitable for either direct fix or cavity fix construction methods. Suitable for either stain or paint finishes on residential and light commercial type buildings where domestic construction techniques are used. The system comprises bandsawn plywood weatherboards, timber scriber and boxed corner profiles, and flat and corner soakers.

2. Scope

The Triclad Lapped Weatherboard cladding system is suitable as a direct fixed external wall cladding for buildings within the following scope:

- The scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- With a risk score of 0-6, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- Situated in NZS3604 Wind Zones up to and including Very high.

The Triclad Lapped Weatherboard cladding system is suitable as a cavity-based external wall cladding for buildings within the following scope:

- The scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- With a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- Situated in NZS3604 Wind Zones up to and including Extra high.

Triclad Lapped Weatherboard cladding system must only be installed horizontally on vertical surfaces.

The Triclad Lapped Weatherboard Cladding System is suitable for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. (The detailing of the Triclad Lapped Weatherboard Cladding System relies on the joinery meeting the requirements of NZS 4211 for the relevant Wind Zone.)

This Triclad Weatherboard™ Installation Guide and Specification contains information, limitations, cautions and advice that at the time of publication was deemed correct. However, to the maximum extent permitted by law Triclad Holdings assumes no legal liability in relation to this information.

3. Performance

Triclad Weatherboards, when installed as detailed in this specification and drawings and maintained as specified, will meet the following requirements of the New Zealand Building Code (NZBC)

- B1 Structure
- B2 Durability
- E2 External Moisture
- F2 Hazardous Building Materials

Triclad Weatherboards™ are BRANZ Appraised -1062 (2020) as an external wall cladding.

4. Detail

Triclad Weatherboard Board details are provided in the details section of this document. The CAD files are available on the Triclad website at - www.triclad.co.nz

5. Limitations

- Triclad Weatherboards must be installed by a Licensed Building Practitioner with relevant license class using accepted trade practices.
- This document is not exhaustive in its scope. Responsibility for design lies with the specifier or responsible party for the project to ensure the final design meets the requirements of the intended application and the NZBC.
- For designs outside the scope of this technical specification, specific design must be undertaken by the designer to the requirements of NZBC.

6. Product Range and sizes

- All products within the range are available with either un-primed, back-primed, or primed all surfaces.
- A first finishing coat option is also available.

Triclad Weatherboards Product Range and Accessories			
Component	Thickness mm	Width mm	Length mm
Weatherboard	12.5	145, 190, 230	2440, 4800
Weatherboard	17.5	145, 190, 230, 260, 295	2440, 4800
Scriber	19	40	Random
Fascia	17.5	190, 230, 260, 295	2440, 4800
Boxed Corner Battens	19	90, 65	Random
Cavity Batten	19	45	5200
Internal Corner Bead	32	32	5500

7. Product specifications and certifications

Triclad Weatherboards:

- Are made from a variant of 2440mm x 1198mm 12.5mm or 17.5mm un-grooved plywood manufactured in Greymouth by International Panel and Lumber (IPL) – www.iplplywood.co.nz
- Have two 6mm weather grooves on the back face
- Have a bandsawn finish
- Are factory finger jointed to create the lengths above 2440mm
- Are appraised by BRANZ as meeting the NZBC as an exterior cladding
- Are H3.1 LOSP treated in accordance with AS/NZS 1604.3
- Are produced from plywood manufactured to AS/NZS 2269:2012 and audited by the Plywood Association of Australia (PAA).
- Plywood is environmentally sustainable produced from renewable New Zealand plantation-grown Pinus Radiata and is Forestry Stewardship Council (FSC) certified.
- Corner battens are H3.1 LOSP treated, have a band-sawn finish on all visible sides with two weather grooves
- Fascia has a bandsawn face with nominal 10mm grooves for soffit material

8. Factory Primed Triclad Weatherboards variants and components

The Triclad Weatherboards and other components are available in different priming configurations and type depending upon the final finish required:

Weatherboard and Fascia		
Final Finish	Sides pre-primed	Primer Used
Paint	Edges, back and face	Paint Plus – Quick Prep General Purpose Acrylic Undercoat
Timbakote	Edges, back and face	Timbakote Rustic Basecoat Opaque Acrylic Coating.
Stain	Back	Paint Plus – Quick Prep General Purpose Acrylic Undercoat.

Boxed Corner and Scriber		
Final Finish	Sides Coated	Primer Used
Paint	Edges, back and face	1. Paint Plus – Quick Prep General Purpose Acrylic Undercoat, or 2. PPG acrylic oil based 839 Enduraprime.
Timbakote	Edges, back and face	Timbakote Rustic Basecoat Opaque Acrylic Coating.
Stain	Back	Paint Plus – Quick Prep General Purpose Acrylic Undercoat.

Primer Descriptions	
Primer Type	**Primer Description**
Paint Plus – Quick Prep General Purpose Acrylic Undercoat.	Manufactured in a carbon neutral certified facility – ISO 14064-1. VOC 2 gms per litre EC07-09. Ecolabel certified – Environmental Choice License number 070301. www.paintplus.co.nz
Timbakote Rustic Basecoat Opaque Acrylic Coating	Timbakote is environmentally friendly, and approved by Environmental Choice N Z. www.timbakote.co.nz
PPG acrylic oil based 839 Enduraprime.	ALKYD wood primer. Ready to use industrial spray primer for continuous timber boards or LOSP treated boards.

9. Timber Treatment

All timber components of the Triclad Weatherboard range are treated with Vascol Azure, a Light Organic Solvent Preservative (LOSP) to AS/NZS 1604.3 H3.1 standard making it suitable for use above ground and providing protection against fungal decay and attack from borer and termites.

The treatment to the weatherboard and fascia is an envelope preservative treatment. Where these are cut for installation the cut edges must be retreated with a suitable brush or spray on timber preservative, such as Enseal or Holdfast Metalex Clear, in accordance with the treatment manufacturer's product technical literature. When retreating it is important to ensure no residual solvent is left on the surface and should be left to flash off in a well ventilated area if any of the components appear greasy.

The treatment to the corner battens is fully penetrating so cut ends are not required to be retreated, but in the case of pre-primed batten must be re-primed.

10. Cladding Fixings

Nail lengths are designed to achieve a minimum penetration of 35mm into framing.

Direct Fix				
Description Profile	**Thickness (mm)**	**Minimum Nail Size**	**Min Framing penetration**	**Fixing Pattern**
Triclad Weatherboard	12.5mm	60mm x 2.8mm, FH[2]	35mm	10mm above top of lower board
Triclad Weatherboard	17.5mm	70mm x 3.15mm, FH[2]	35mm	10mm above top of lower board

Cavity Fix				
Description Profile	**Thickness (mm)**	**Minimum Nail Size On 20mm Cavity(mm)[1]**	**Min Framing penetration**	**Fixing Pattern**
Triclad Weatherboard	12.5mm	90mm x 3.55mm, FH[2]	35mm	10mm above top of lower board
Triclad Weatherboard	17.5mm	90mm x 3.55mm, FH[2]	35mm	10mm above top of lower board

Notes:

1. Nail lengths are designed for minimum penetration of framing. If thickness of cavity battens, cladding or underlay is varied, length shall be adjusted accordingly.
2. Stainless steel nails where used, shall have annular grooves to provide similar withdrawal resistance to hot-dip galvanised nails.

Legend: FH = Flathead

Nail Fixing material for Triclad Weatherboards in accordance with Table 4.3 of NZS3604 are as follows

- Zone B- Galvanized Steel or Stainless Steel or Silicon Bronze.

- Zone C- Galvanized Steel or Stainless Steel or Silicon Bronze.
- Zone D- Stainless Steel or Silicon Bronze. Zone D includes all offshore islands, the area within 500m of the coastline of New Zealand.

As per Section 4.2.4 of NZS3604 'Microclimatic Considerations'. Significant acceleration of the corrosion rate of structural fasteners and fixings beyond what could be expected from the geographical location can occur in the following circumstances and require a Specified Engineered Design.

- Industrial contamination and corrosive atmospheres
- Contamination from agricultural chemicals or fertilizers; and
- Geothermal hot spots. Hot spots are defined as being within 50m of a bore, mud pool, steam vent or other source.

11. Design Considerations

a. Compliance

When installed in accordance with this literature Triclad Weatherboards shall comply with the following clauses of NZBC

1. B1 Structure
2. B2 Durability
3. E2 External Moisture
4. F2 Hazardous Building Material

b. Responsibility

5. The specifiers or other parties responsible for the project must ensure that the information and details in this specification are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this technical specification.
6. For designs outside the scope of this technical specification, specific design must be undertaken by the Architect or designer.
7. Triclad Weatherboard must be installed by a Licensed Building Practitioner or qualified tradesman.

c. Clearance

The base of the Triclad weatherboard system shall be detailed in accordance with E2/AS1 and shall finish a minimum of:

8. 100 mm above a paved surface, or
9. 175 mm above finished unpaved surface,
10. 50mm below finished floor level

At balcony, deck or low pitch roof/wall junctions, the bottom edge of Triclad weatherboards must be kept clear of any adjacent surface, or above the top surface of any adjacent roof flashing by a minimum of 35 mm.

The maximum distance from the bottom of the board to the fixing should not be greater than 75mm.

d. Moisture Management

Any penetrations, openings, junctions, connections, window sills, heads and jambs must incorporate suitable flashing material incorporated into them. Any cut ends or sections of Triclad Weatherboards and components must be treated with a suitable timber preservative treatment such as Enseal or Metalex.

e. Wind Loading

Triclad Weatherboards are suitable for use in NZS 3604 Wind Zones up to and including 'Extra High'. Installation in Extra High wind zones must be over a drained cavity and incorporate a rigid underlay.

f. Other Cladding Junctions

Where the system abuts other cladding systems, designers must detail the junction to meet their own requirements and the performance requirements of the NZBC

g. Interstorey Junctions

Inter-storey drained joints must be provided to limit continuous cavities to the lesser of 2-storeys or 7 meters in height, in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.9.4 (b).

12. Health and Safety

11. When cutting or machining Triclad Weatherboards suitable eye protection and a P1 or P2 replaceable filter or disposable respirator should be worn.
12. Safety glasses must be worn when cutting Triclad Weatherboard products. When sawing, routing, planing, drilling etc. a class P1 or P2 replaceable filter or disposable face piece respirator should be worn. Wear work gloves to avoid skin irritation and the risk of splinters. Wash hands with mild soap and water after handling panels.

13. Storage and Handling

13. Triclad Weatherboards must be unwrapped of their delivery covering and stored in a dry and well ventilated environment.
14. Triclad Weatherboards must be stacked clear of the ground on bearers situated immediately under any board join and then spaced every 800mm or regularly enough so that there is no flex in the board.
15. If pre-primed or painted Triclad weatherboards™ must be restacked and filleted, taking care not to scrape each board over the other to prevent scratch marks*, to allow the paint/primer to dry further and to prevent sticking if it is to be stored for a long period.
16. When lifting or transporting weatherboards on site by hand they must be carried on their edge so as to not apply undue pressure to the factory tongue and groove join.

*Note: The factory applied primer, or first finishing coat is likely to be scratched during transportation or site handling. This will be rectified by the application of the additional topcoats on site.

14. Framing

a. Compliance

Wall framing must comply with:

- NZBC B1 – Structure or a Specific Engineering Design
- NZBC B2 – Durability: B2/AS1 Clause 3.2 Timber and Wood Based Building Products (NZS 3602)

b. Construction

- Studs must not exceed 600mm centres
- Nogs must be provided at maximum 800mm centers
- On internal corners double studs are required.
- On external corners additional packing may be needed
- All joints must be supported by framing

c. Dimension

Studs must be a minimum of 45mm wide to ensure adequate fixing for board joints

15. Cavity Construction Method

- Cavity battens shall be fixed to each stud over the wall underlay by the cladding fixings
  - If studs are at 600mm centers cavity battens shall be fixed to each stud, and midway between each stud fixed to the top and bottom plate and the nogs (i.e. cavity battens shall be at 300mm centers)
  - If studs are at 400mm centers cavity battens may be fixed onto studs only.

Note: Weatherboard fixings are only required at framing spacings, not to intermediate battens

- A horizontal batten shall be fixed to the top of the wall cavity to close off the cavity from the roof space.
- Horizontal battens (cavity spacers) used to support the bottom sheet edge or to provide intermediate support above window openings must be fixed with a 5-degree minimum slope and an air gap at either side of 50mm minimum to allow water drainage to the outside.
- Vermin-proofing shall be provided above window and door heads and at the base of the drained cavity. E2/AS1 currently provides an appropriate specification for cavity closers.
- Cavity battens shall be nominal 20 mm thickness (between limits of 18 mm and 25 mm in thickness), and be a minimum 45 mm wide,
- If timber, comply with B2/AS1,
- Triclad Weatherboards Board must not be fixed to these cavity battens where there is no framing behind them.

16. Wall Underlay

A wall underlay compliant with E2/AS1 table 23 must be installed over framing in accordance with E2/AS1 and manufacturers requirements.

a. Rigid Wall Underlays

Rigid wall underlays, in association with drained cavities are required in Extra High wind zones. Rigid underlays are also required to external walls of attached garages that are unlined and unlined gable ends – see E2/AS1 9.1.4. Rigid wall underlays shall be selected in accordance with E2/AS1 Table 23 and shall be fixed in accordance with the manufacturer's installation instructions.

17. Flashings

All Flashings shall comply with the relevant provisions of NZBC E2/AS1. Ensure that materials used for flashings are compatible with surrounding materials and exposure zone in accordance with NZBC E2/AS1: Tables 20, 21 and 22.

18. Triclad Weatherboard Setout

- Horizontal laps must be a minimum of 32mm. That is, the board above must overlap the board below by a minimum of 32mm.
- Boards must be staggered so that board joints are not located above one another.
- All joints in Triclad weatherboards must be made over solid support – either cavity batten fixed to studs in the case of a cavity installation, or over studs or vertical blocking within the wall frame in direct fixed installations. In both instances, the nail fixing locations relative to the joint necessitate the support of double studs. All end joints shall be overflashed with a flat soaker and have a 3mm gap between boards.

19. Cut Ends

The treatment to the Triclad Weatherboards™ is an envelope preservative treatment. Where these are cut for installation the cut edges must be retreated with a suitable brush or spray on timber preservative, such as Enseal or Holdfast Metalex Clear, in accordance with the manufacturer's product technical literature. When retreating it is important to ensure no residual solvent is left on the surface and should be left to flash off in a well ventilated area if any of the components appear greasy.

20. Sealants

All sealants must comply with the NZBC and application is to be as per the manufacturer's instructions.

21. Durability

The NZ Building Code clause B2 requires claddings which do not provide bracing, achieve a minimum structural durability level of 15 years. Triclad Weatherboards meet this requirement when installed in accordance with the instructions contained herein and when coated with stains or paints to manufacturer's specifications, irrespective of the colour, and maintained as per the coating manufacturers recommendations.

The use of darker colours and failure to adequately maintain the surface will increase the risk of movement and possible face checking. This will not have any detrimental impact on the structure or durability of the Triclad Weatherboards™ and will be aesthetic only.

Coatings must be regularly maintained (refer to S24), and any sign of degradation should be repaired immediately as per the coating manufacturers recommendations.

22. Coating Selection

Coating selection is the responsibility of the building owner and their advisors. It is important that advice and the directions of the coating manufacturer are followed.

a. Penetrating Stains

Penetrating stains offer less protection from weathering than film forming paints and stains and will require much more rigorous maintenance and more frequent recoating.

b. Paints and Film Forming Stains

Film forming coatings provide the best form of protection and require the least maintenance, with the best possible provided by lighter colours with light reflectance value (LRV) of greater than 40%. Darker colours with an LRV of less than 40% can be used, however, they will require increased maintenance and will require recoating earlier than the lighter colours.

23. Coating Application

The finished cladding system must have the final coating applied within eight weeks of installation.

a. For Un-primed Triclad Weatherboards

On-site coating will be required to achieve serviceable life span. All coating is to be carried out according to the coating manufacturer's instructions in a well-ventilated area. Refer to the coating/primer supplier for all matters relating to health and safety. All relevant sections of standard AS/NZS 2311:2009 (Guide to the painting of buildings) shall be adhered to.

i. Stain finishes

- Ensure the board to be coated is clean and free from dust. Remove dirt thoroughly by wiping clean before applying stain
- All sides and edges must be coated prior to installation. This can be done with either:
  - at least one coat of the chosen stain or
  - the back of each board coated with a suitable primer and one coat of stain on the edges and face
- All cut, notched, and/or raw plywood-exposed areas must be treated with Enseal or Metalex prior to staining. Refer section 19.
- Once installed a second coat of stain must be applied
- It is good practice to inspect the cladding after an initial 3-6 months for face checking. If/once this has occurred a further finishing coat should be applied.
- Refer Maintenance section 24

ii. Paint finishes

- Ensure the board to be coated is clean and free from dust. Remove dirt thoroughly by wiping clean before applying finishing coats
- Ensure all surfaces (including the back) is coated with an appropriate primer
- All cut notched and/or raw timber-exposed areas must be treated with Enseal or Metalex prior to priming and painting. Refer section 19.
- The primer coat and first finishing coat must be applied before installation

- Once installed a second finishing coat must be applied (or more if recommended by the paint manufacturer).
- It is good practice to inspect the cladding after an initial 3 -6 months for facechecking. If/once this has occurred a further finishing coat should be applied.
- Refer Maintenance Section 29.2.

b. For Primed Triclad Weatherboards

Factory primed Triclad Weatherboards are ready for the final paint coating systems. To ensure best performance the following painting guidelines are required for finishing Triclad Weatherboards

- Ensure that primed board is free from any dirt, oil or any other surface contaminants. Remove dirt thoroughly by wiping clean before applying finishing coats
- If the primer becomes chalky or loose, lightly sand these areas as required and re-prime with a quality primer.
- All cut notched and/or raw timber-exposed areas must be treated with Enseal or Metalex prior to priming and painting. Refer section 19.
- Apply the first finishing coat prior to installation
- Once installed a second finishing coat must be applied (or more if recommended by paint manufacturer).
- It is good practice to inspect the cladding after an initial 3-6 months for face checking. If/once this has occurred a further finishing coat should be applied.
- Refer maintenance section 24

c. For Back Primed Triclad Weatherboards

Factory supplied back primed Triclad Weatherboards are suitable for stain finishes and should be regarded as per section 22 for all sides and edges.

d. For Factory Coated Triclad Weatherboards

Factory coated Triclad Weatherboards have had one coat of the primer and the finish coat applied and are ready for installation and the final finish coats to be applied on site.

- Ensure that the finishing coated weatherboards are free from any dirt, oil or any other surface contaminants. Remove dirt thoroughly by wiping clean before applying finishing coats
- Treat any cut ends prior to installation with Enseal Clear or Metalex and re-prime and apply first finishing coat or first stain coat to ensure a complete seal.
- Once fixed a second finishing coat must be applied (or more if recommended by paint manufacturer).
- It is good practice to inspect the cladding after an initial 3 -6 months for face checking. If/once this has occurred a further finishing coat should be applied.
- Refer maintenance section 24

Note: It is possible that due to the freighting process and on-site handling and fixing, the first finish coat will become worn in patches. This is normal and will be rectified by the application of the second and any subsequent finish coats.

24. Maintenance

a. Stain finished boards

What to expect

- The wood will begin to naturally silver and pigment will fade or wear away after about 24 months of exposure to the weather if it is not re-coated
- Cladding on north facing or heavy weather- exposed aspects will fade and age quicker than cladding located in other areas
- Some movement of timber as it expands, and contracts can be expected
- Possible minor surface cracking (face checking) will likely occur
- Possible ‘fiber pull’ splitting at the lamination glue lines could happen

- The surface may appear blotchy or dirty, this may be due to mould growth which can occur, especially in humid or wet environments.

Minimum required maintenance:

- Annually clean cladding with mild detergent and a soft brush, then rinse with water. Note: High pressure water blasting is prohibited as damage to board and batten surfaces can occur.
- Every two years apply 1 or 2 coats of penetrating stain according to coating manufacturer's recommendation as colour starts to fade.
- Check all Triclad Weatherboards, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the cladding system.

b. Paint finished Boards

What to Expect

- Paint finishes in north facing, or heavy weather-exposed areas may age quicker than those located in other areas
- Some movement of timber as it expands, and contracts can be expected
- Possible minor surface cracking (face checking) will likely occur

Minimum maintenance

- Annually clean cladding with mild detergent and a soft brush, then rinse with water. Note: High pressure water blasting is prohibited as damage to board and batten surfaces can occur.
- A maintenance program is required at least every two summers as follows:
  - Sand back areas where flaking or cracking is occurring putty, and sand as appropriate - then spot prime
  - and apply two coats of exterior paint as required.
  - Check all Triclad Weatherboard junctions, flashings, mouldings and replace or remediate parts as required to maintain weather tightness of the cladding system.
  - Recoat the Triclad Weatherboards with exterior paint as required by the coating manufacturer's recommendations (typically between 5 to 10 years).

25. Environment

a. Plywood

The plywood used to manufacture Triclad Weatherboards is environmentally sustainable produced from renewable New Zealand plantation-grown Pinus Radiata and is Forestry Stewardship Council (FSC) certified.

b. Undercoat/Primers

Timbakote Rustic Basecoat Opaque Acrylic Coating is environmentally friendly, and approved by Environmental Choice N Z.

Paint Plus Quick Prep General Purpose Acrylic Undercoat is manufactured in a carbon neutral certified facility – ISO 14064-1. VOC 2 gms per litre EC07-09. Ecolabel certified – Environmental Choice License number 070301.

26. Drawing Directory

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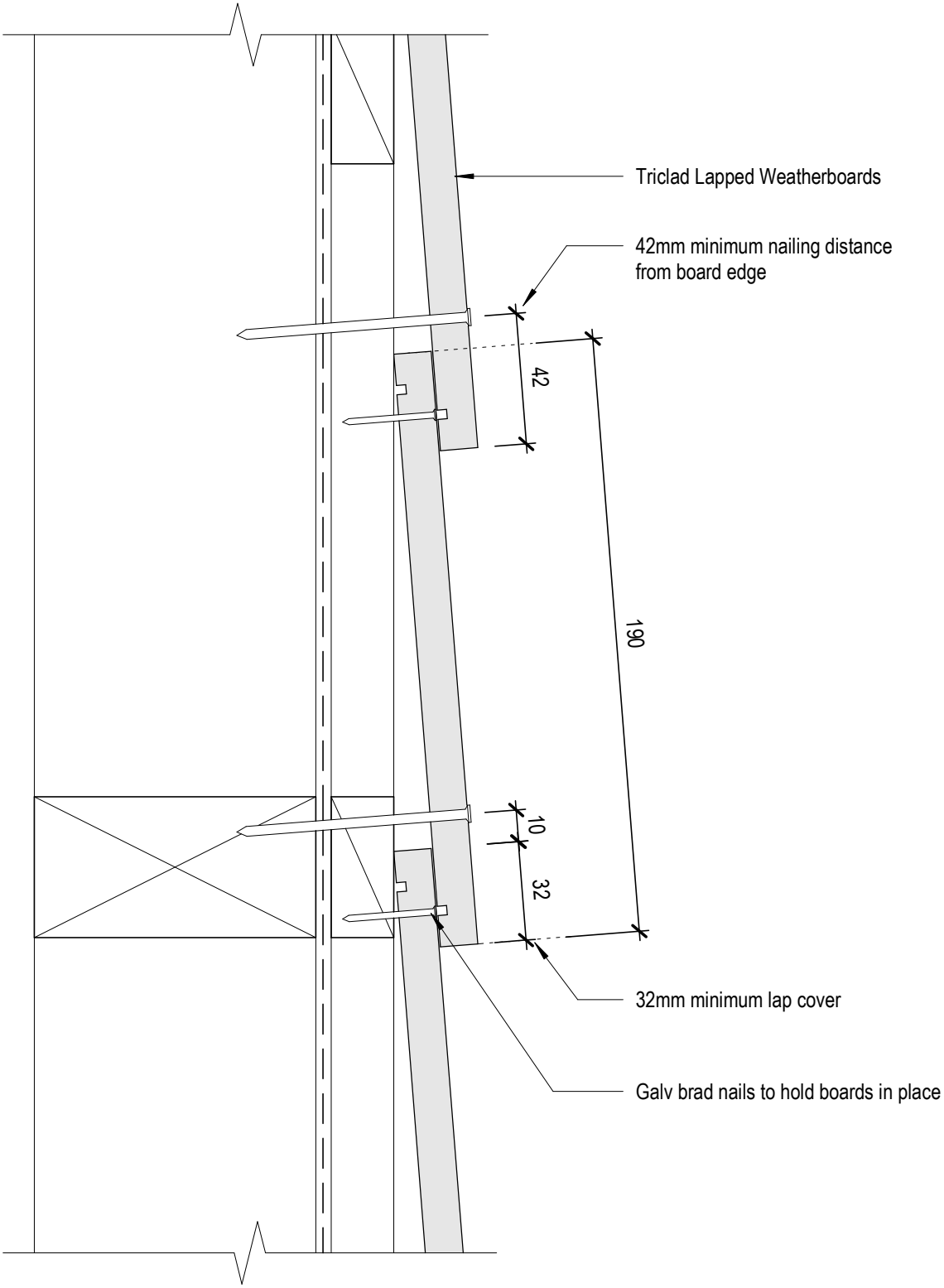

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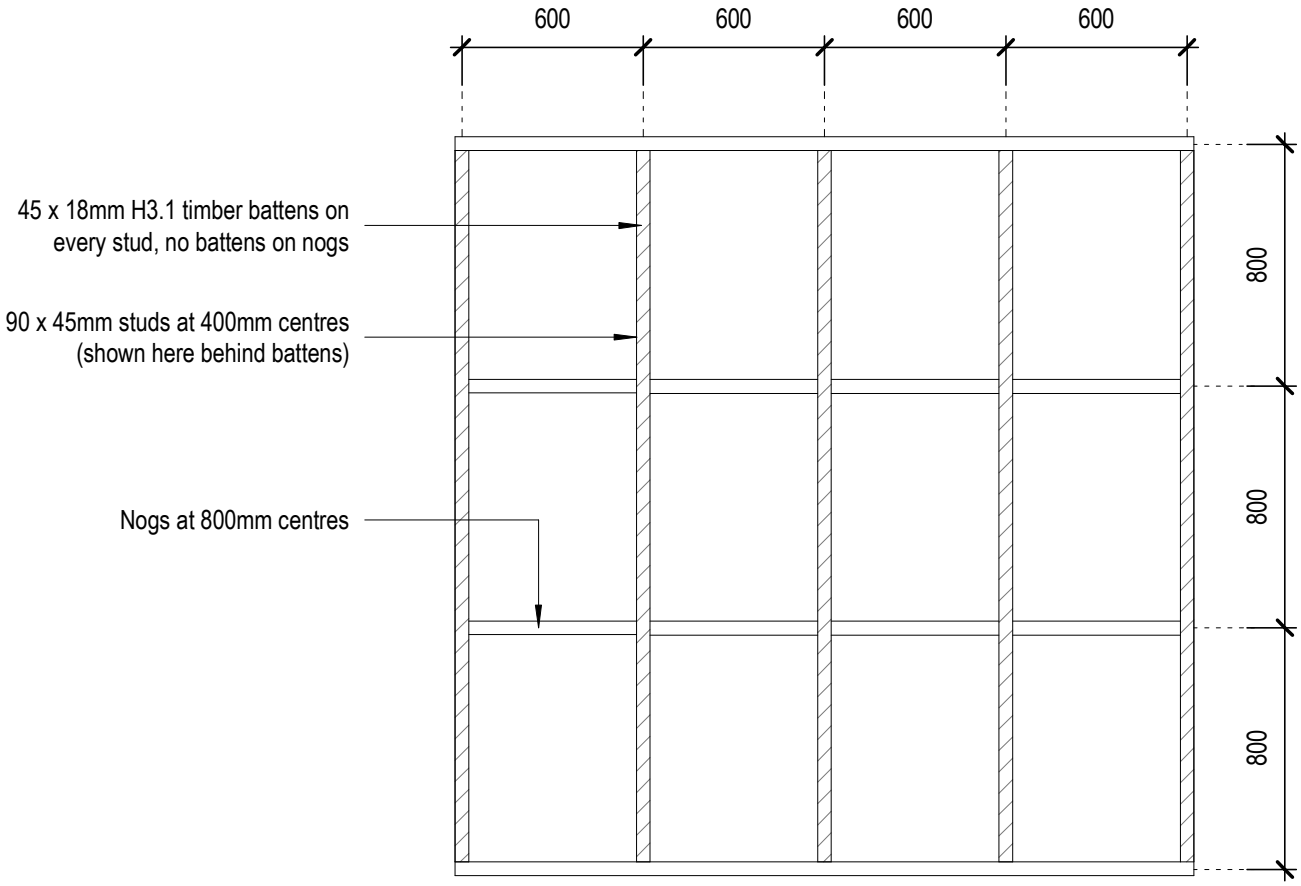
Cavity Fix
Nailing Setout Detail

1 : 2 @ A4	Sept 2019	Fig 1
Scale	Date	Dwg



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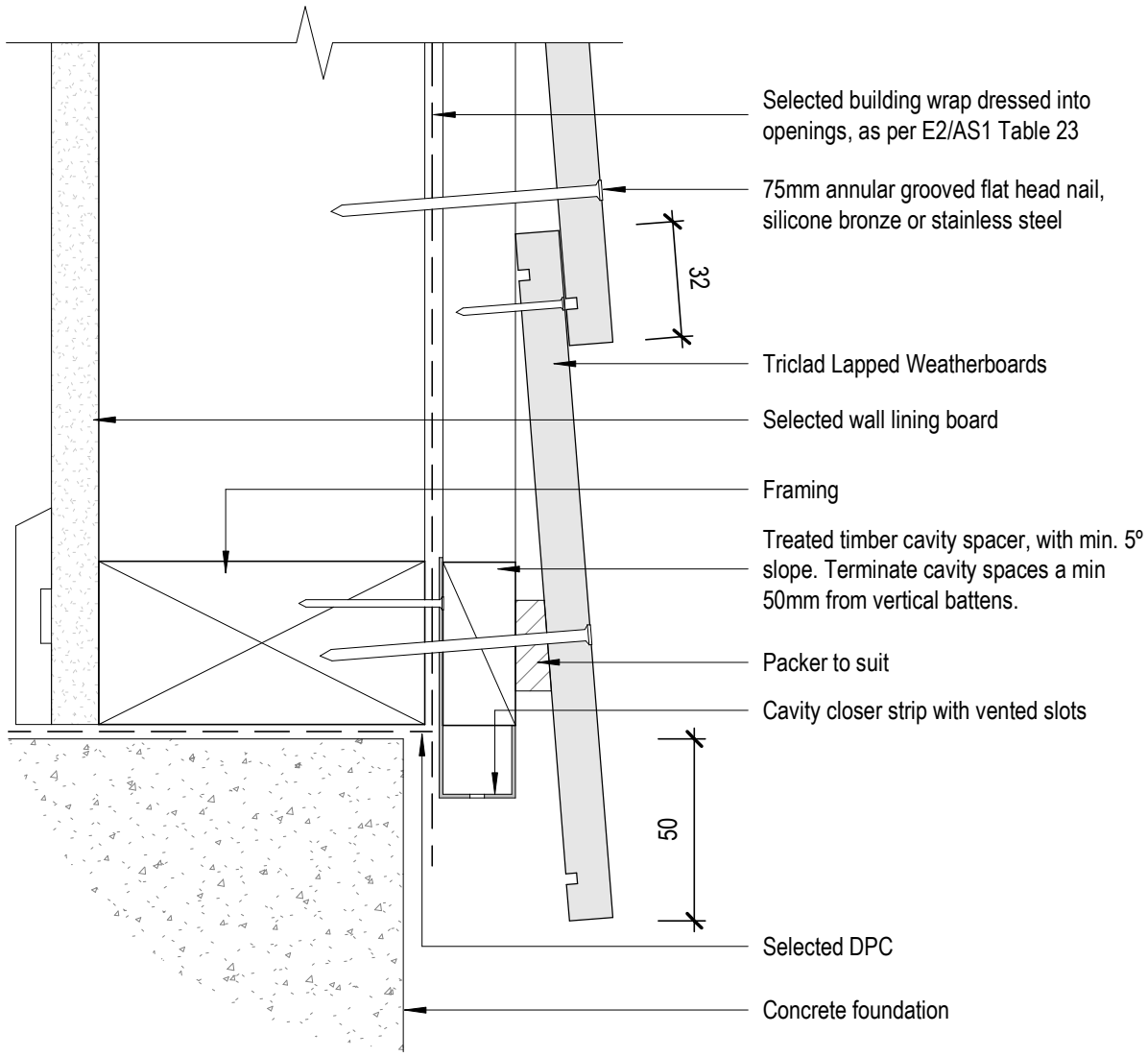
Cavity Fix Framing/Batten Setout

1 : 25 @ A4	Sept 2019	Fig 2
Scale	Date	Dwg



NOTE:
Ground clearances to bottom of cladding as per NZS3604:2011

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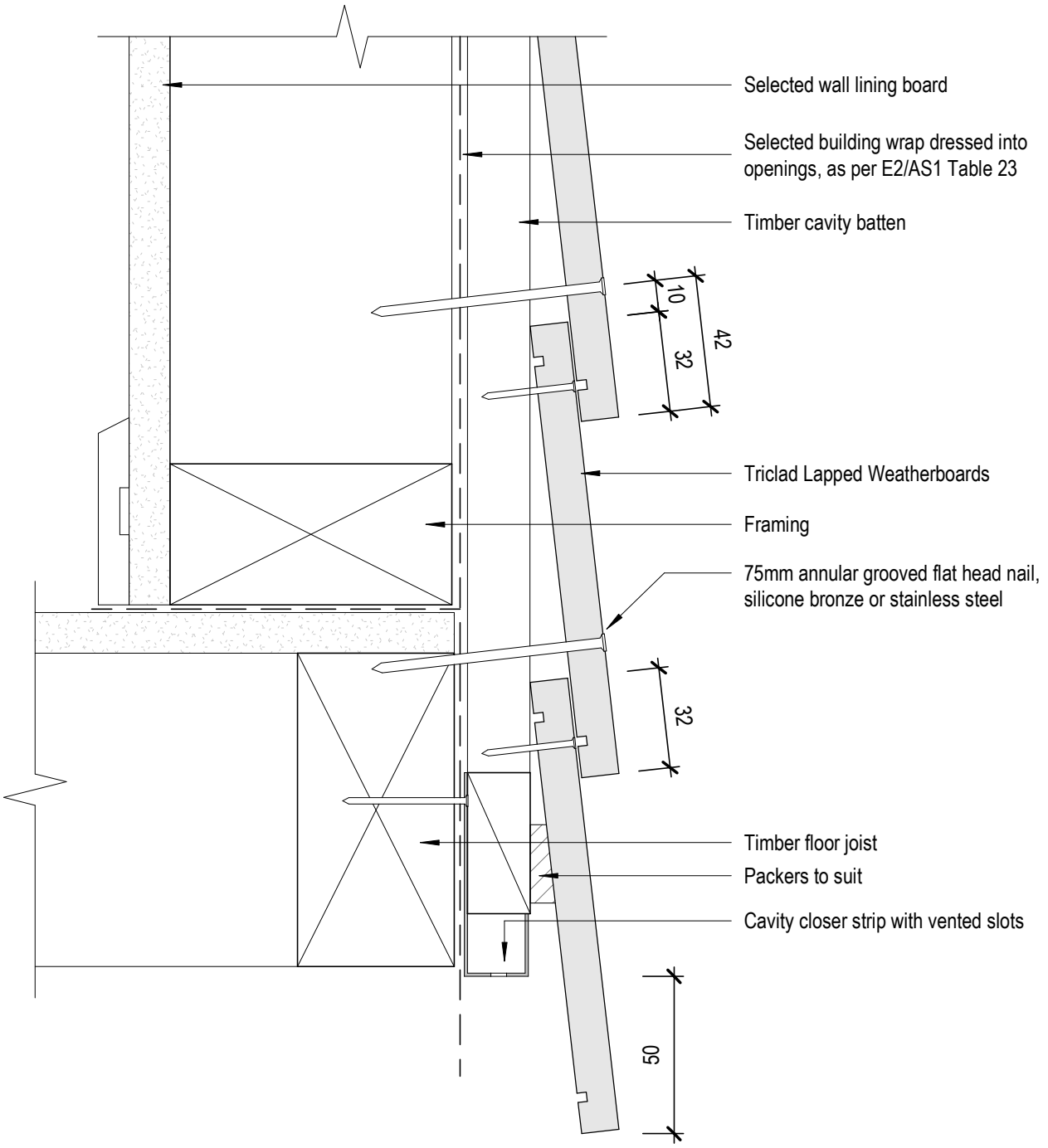
Cavity Fix
Base Detail-Concrete Floor

1 : 2 @ A4	Sept 2019	Fig 3
Scale	Date	Dwg



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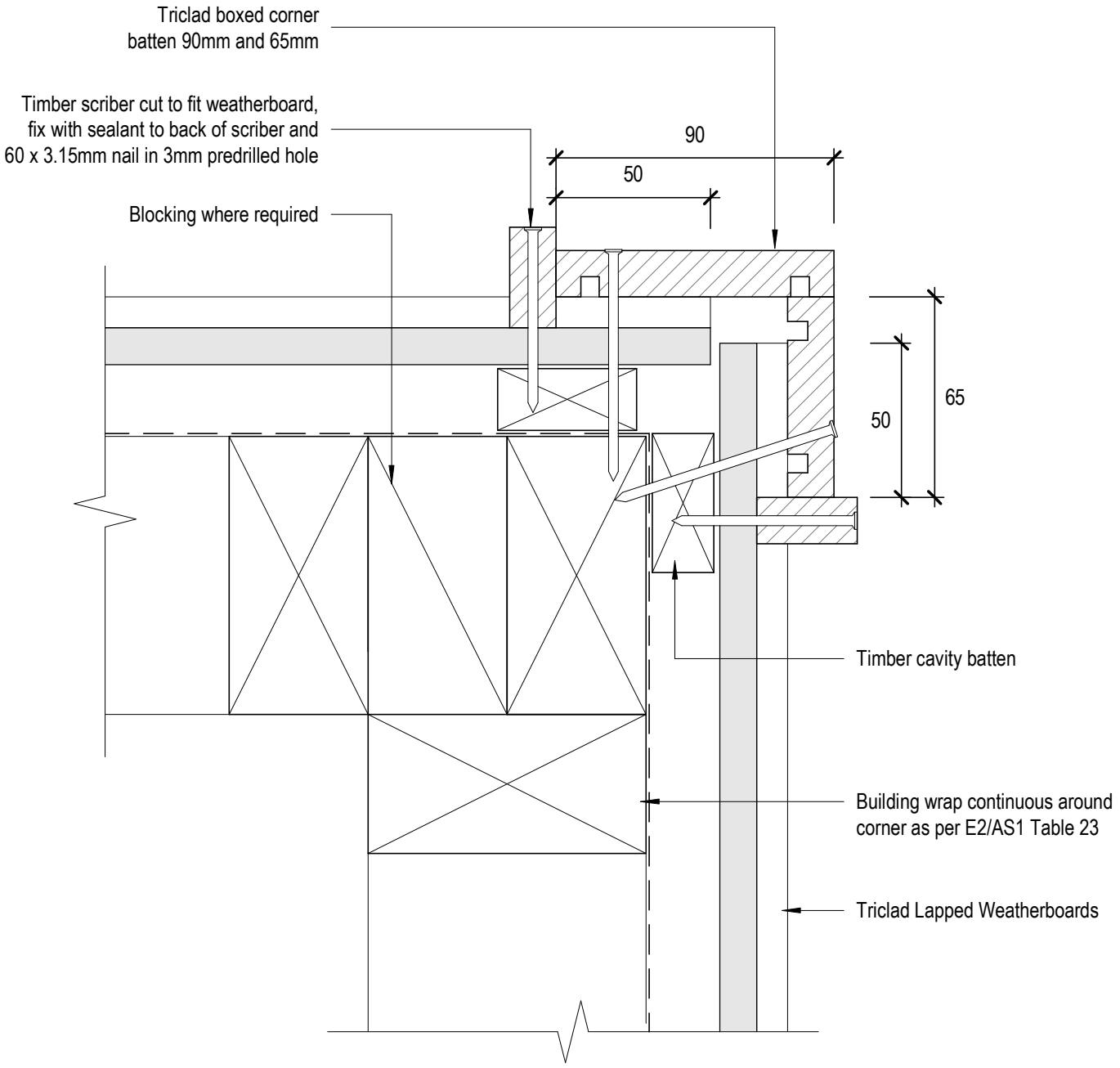
Cavity Fix
Base Detail-Timber Floor

1 : 2 @ A4	Sept 2019	Fig 4
Scale	Date	Dwg



NOTE:
Box corner trim must not be continuous over solid floor joists.

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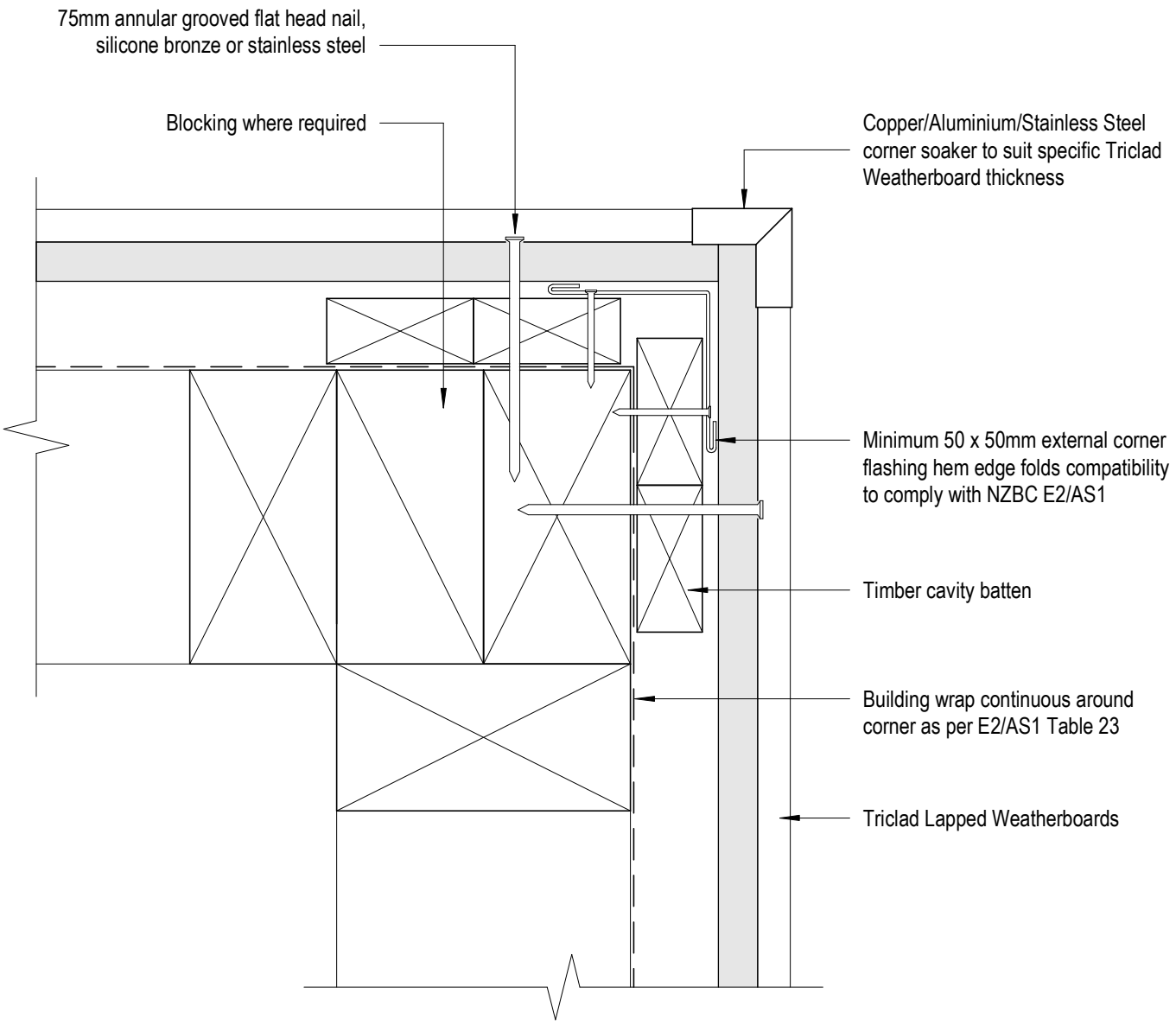
Cavity Fix
External Corner-Boxed

1 : 2 @ A4	Sept 2019	Fig 5
Scale	Date	Dwg



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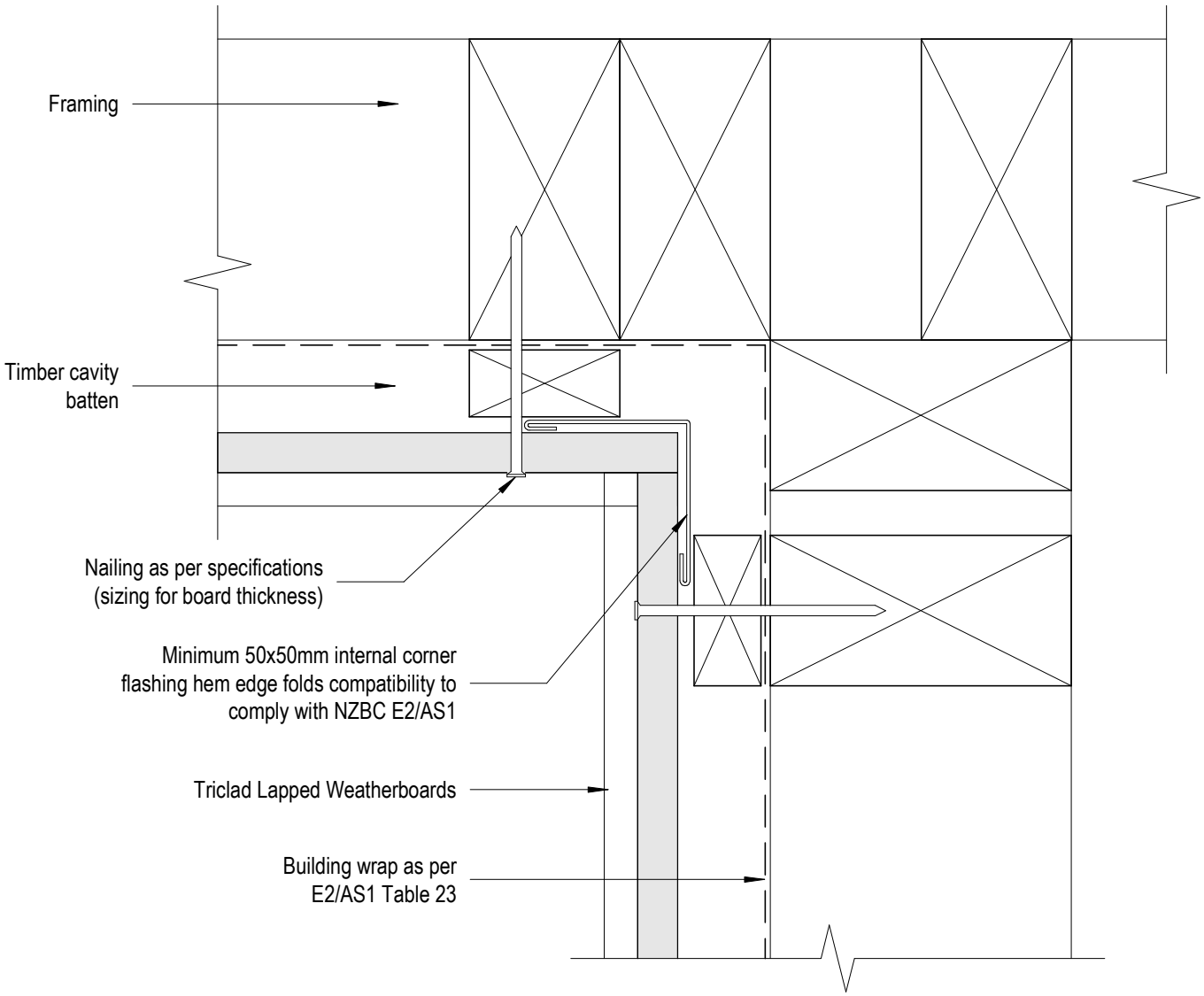
Cavity Fix
External Corner-Soaker

1 : 2 @ A4	Sept 2019	Fig 6
Scale	Date	Dwg



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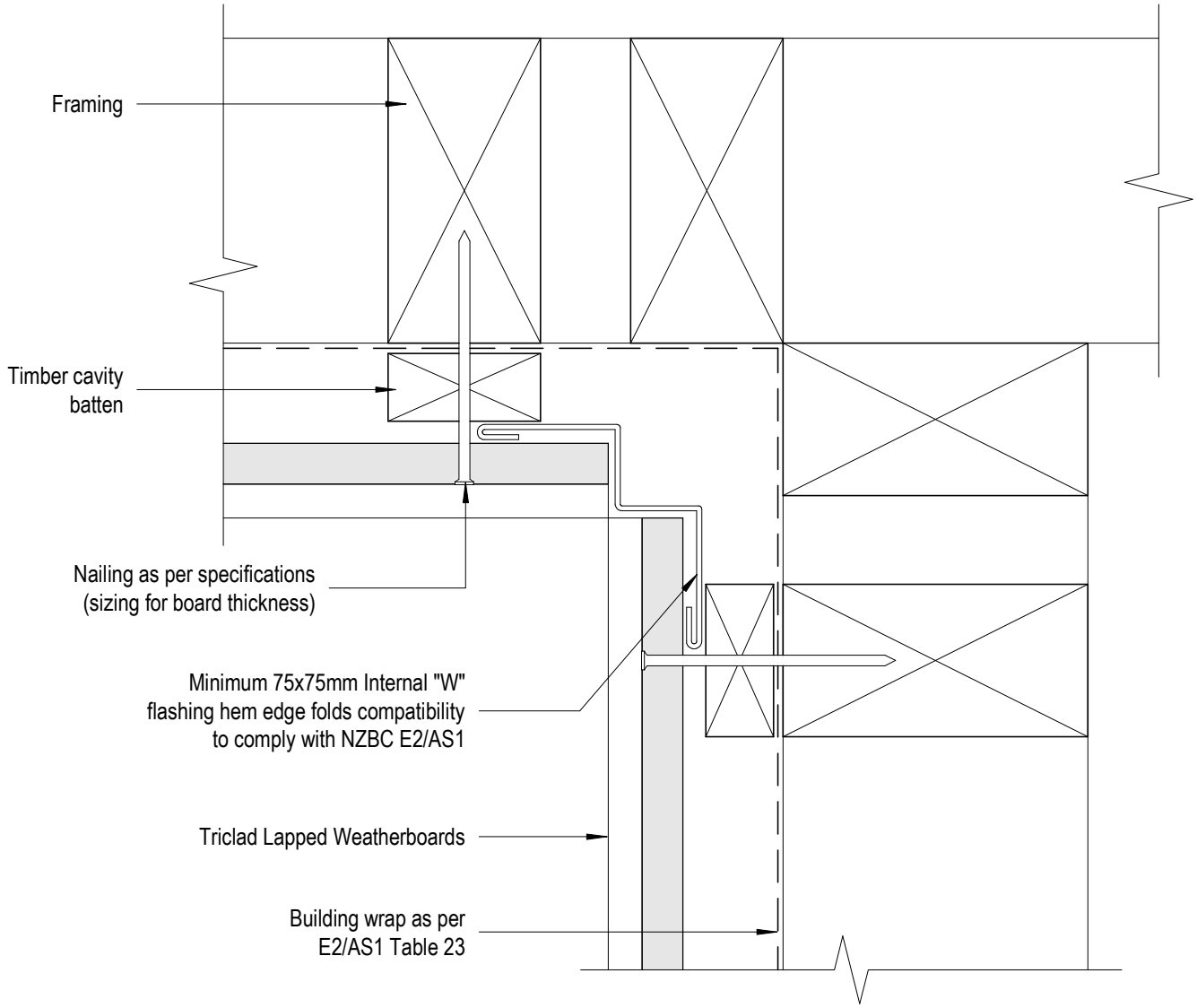
Cavity Fix
Internal Corner-Option 1

1 : 2 @ A4	Sept 2019	Fig 7
Scale	Date	Dwg



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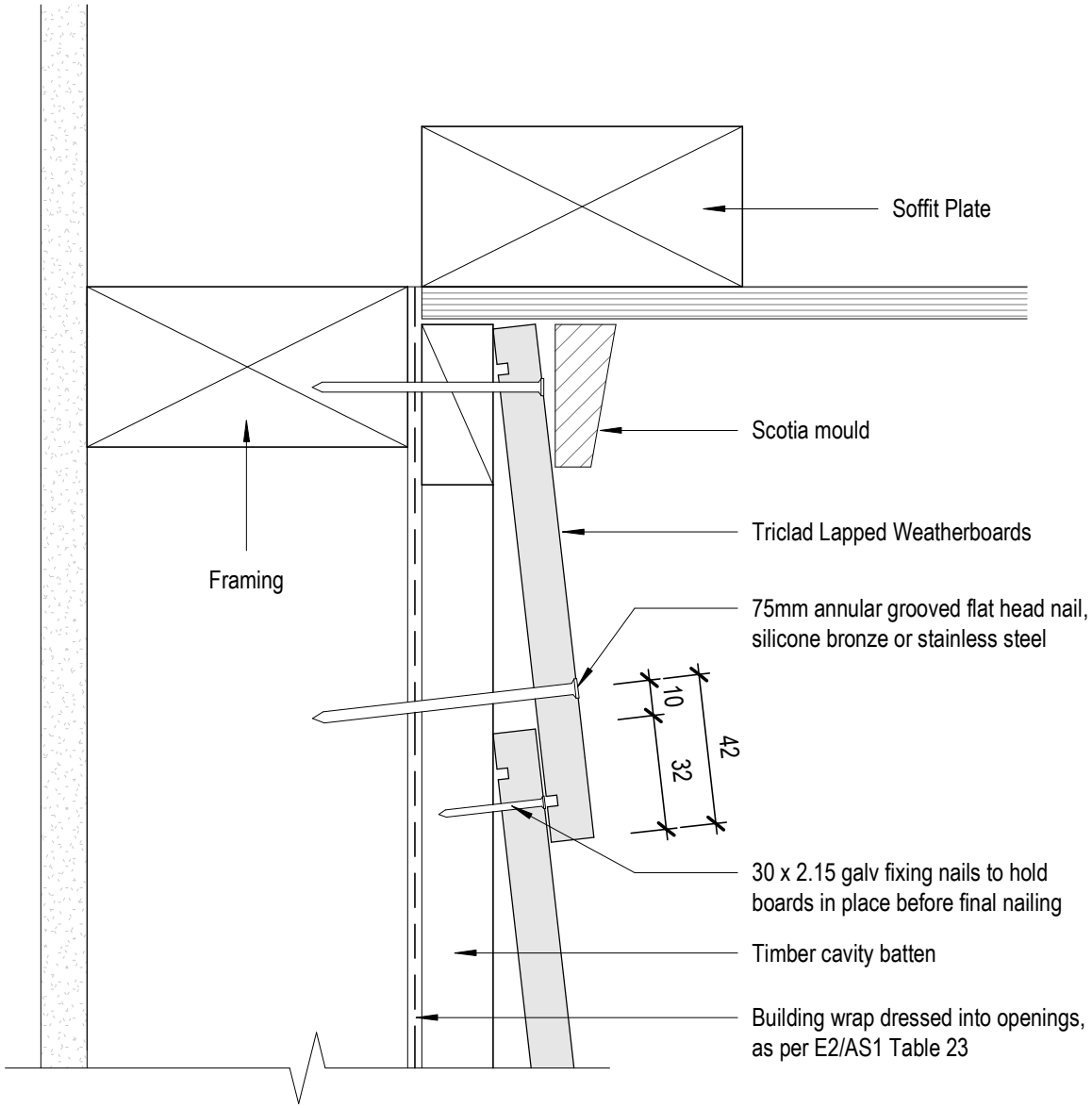
Cavity Fix
Internal Corner-Option 2

1 : 2 @ A4	Sept 2019	Fig 8
Scale	Date	Dwg



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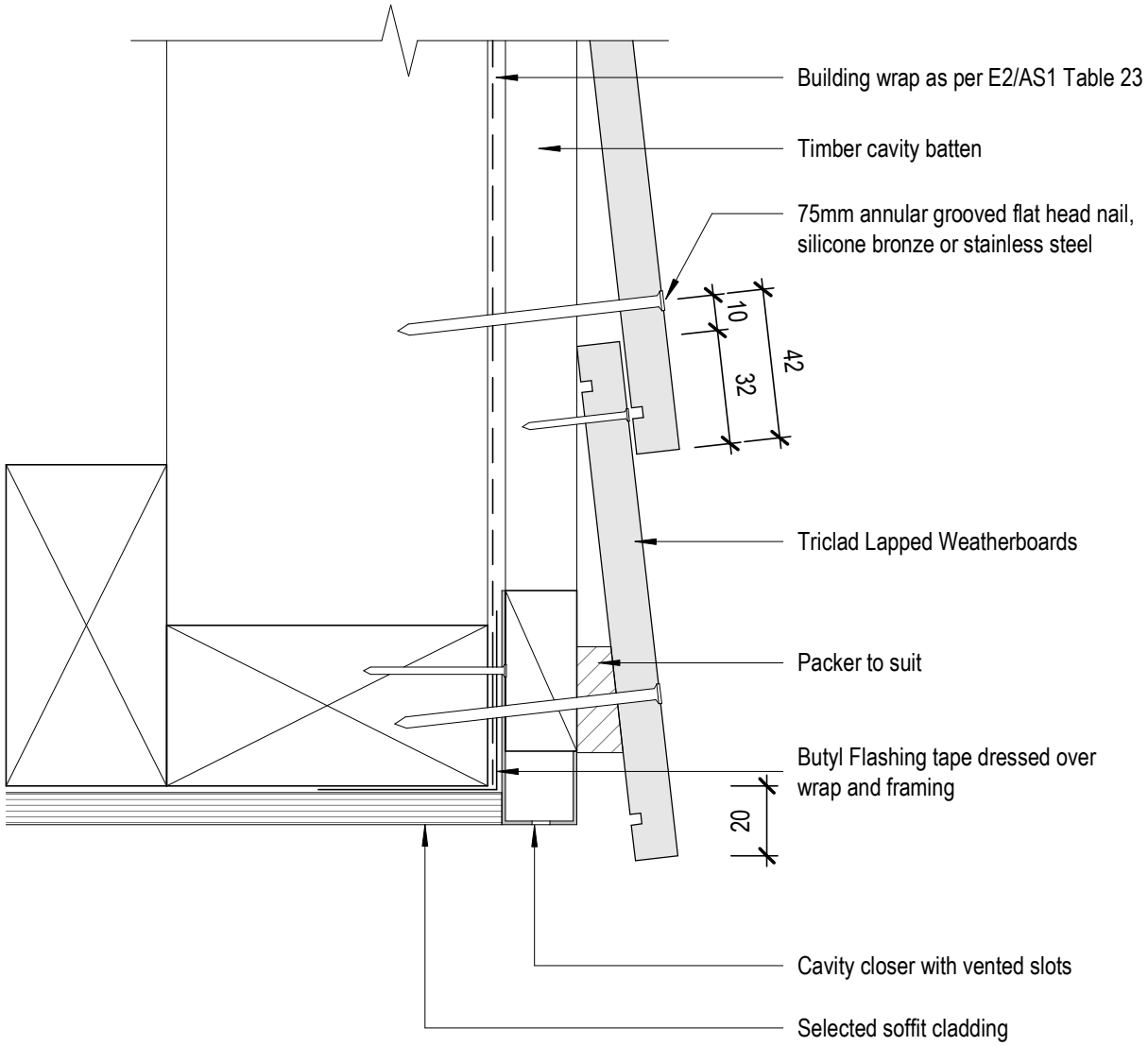
Cavity Fix Soffit Detail

1 : 2 @ A4	Sept 2019	Fig 9
Scale	Date	Dwg



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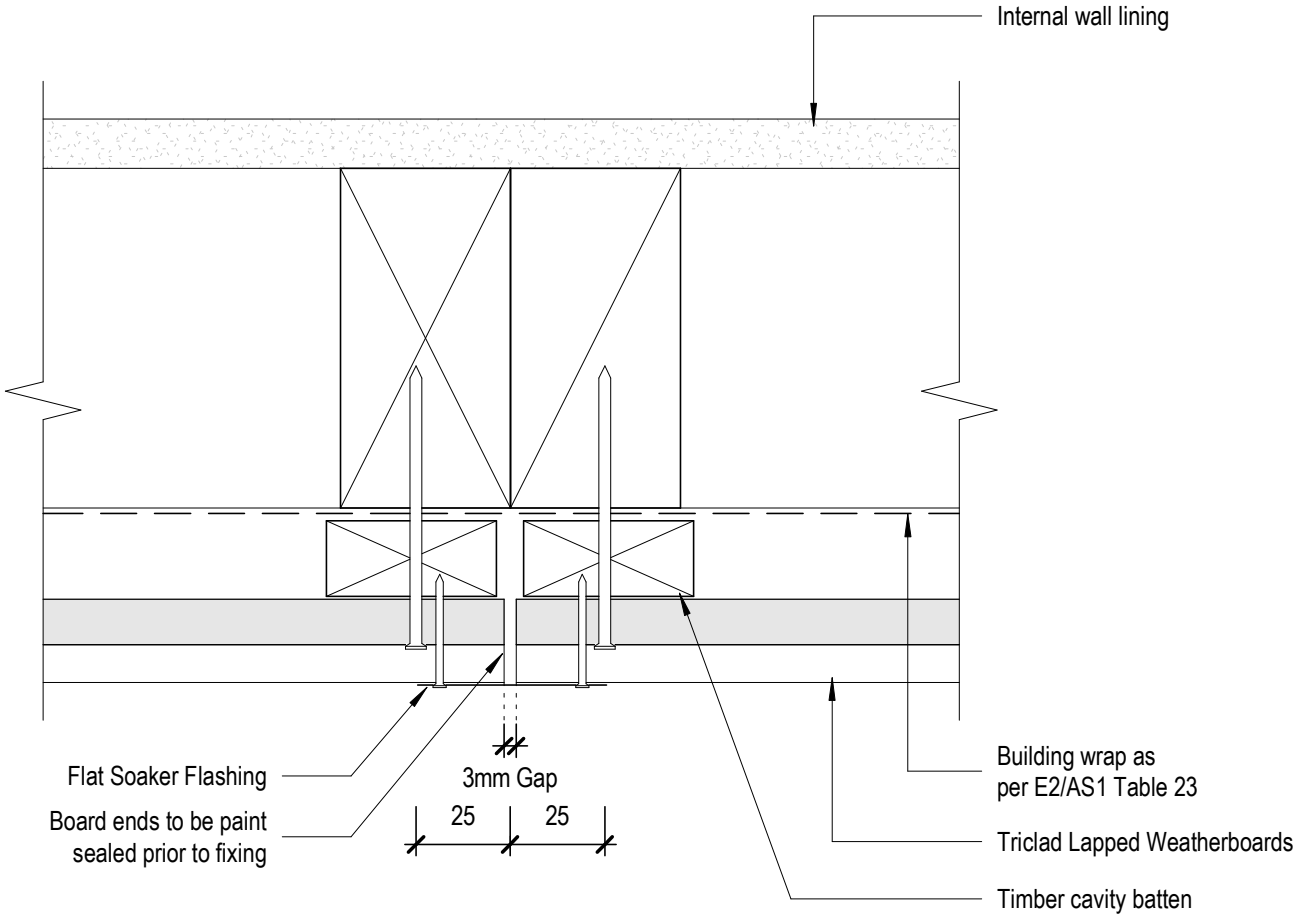
Cavity Fix Soffit/Beam Detail

1 : 2 @ A4	Sept 2019	Fig 10
Scale	Date	Dwg



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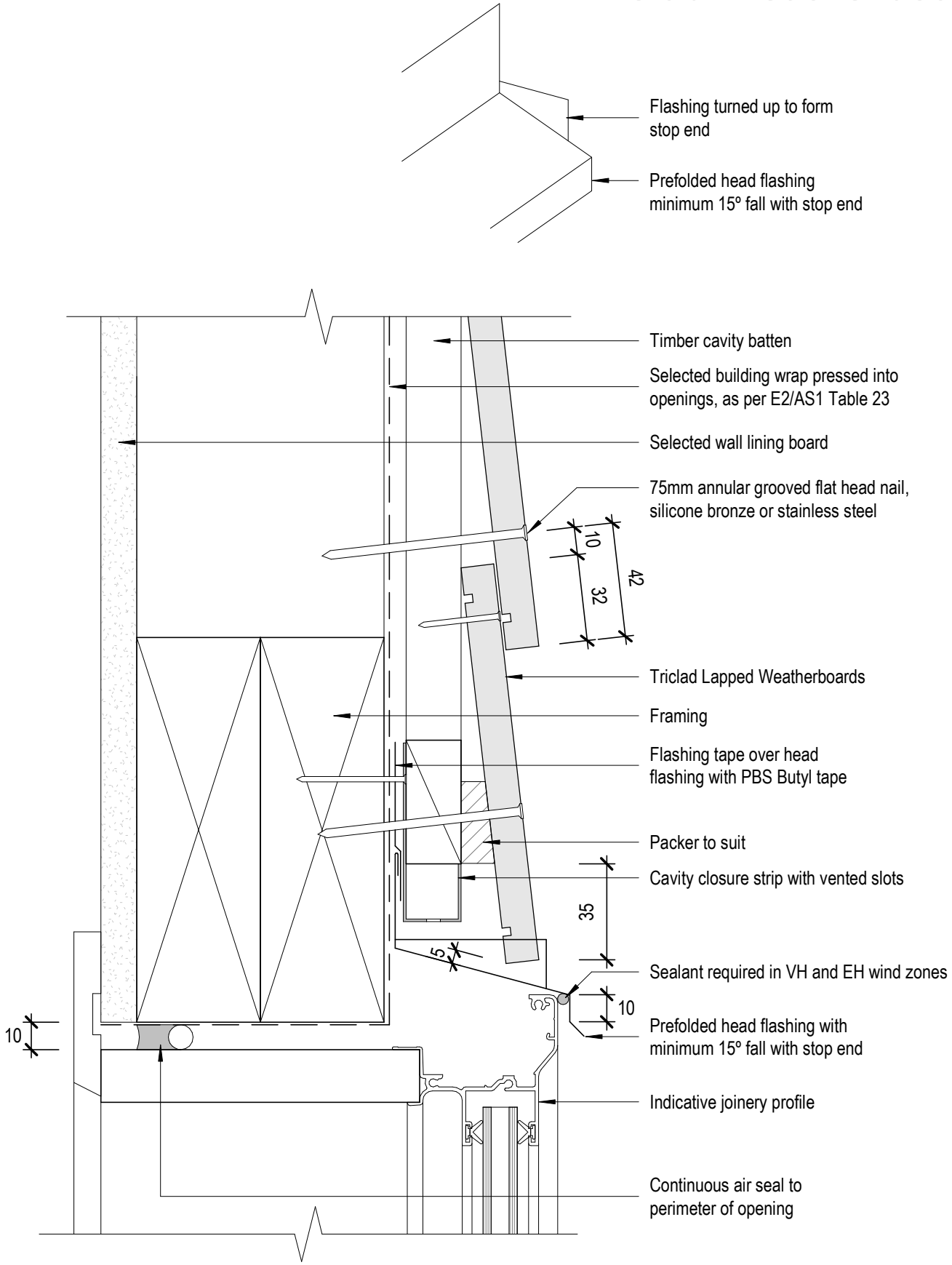
Cavity Fix
Board Joint Detail

1 : 2 @ A4	Sept 2019	Fig 11
Scale	Date	Dwg



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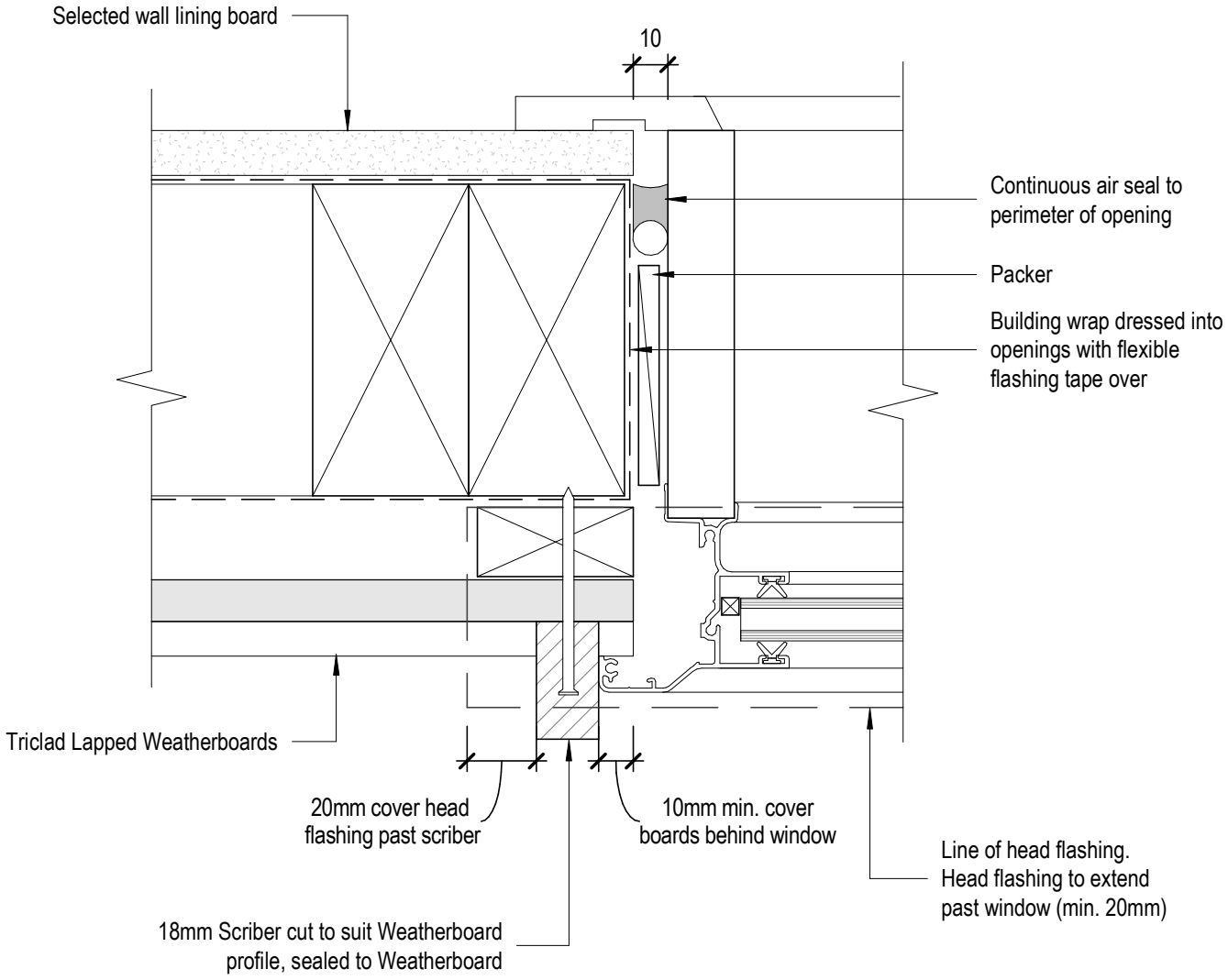
Cavity Fix
Window Head Detail-Aluminium

1 : 2 @ A4	Sept 2019	Fig 12
Scale	Date	Dwg



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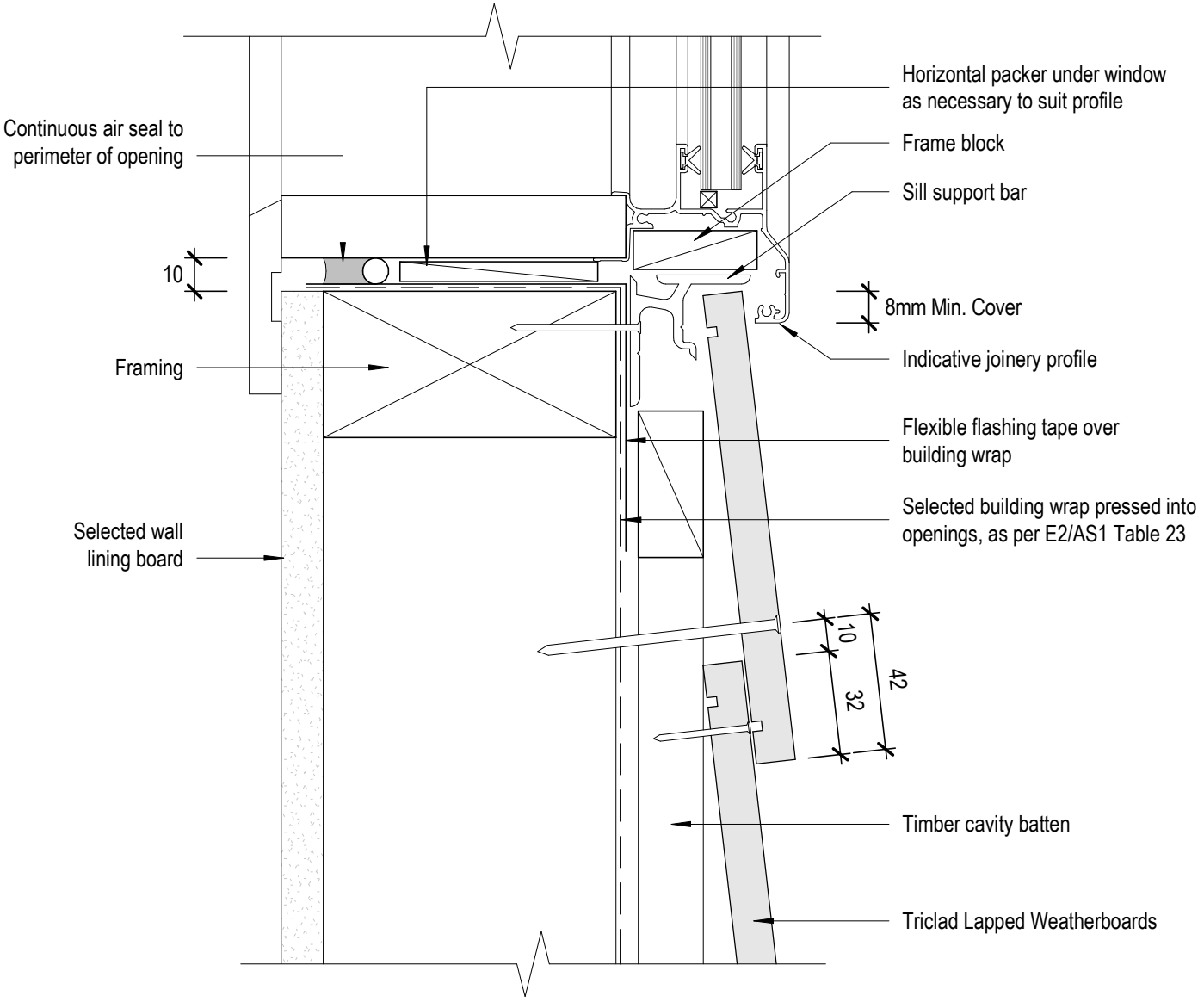
Cavity Fix
Window Jamb Detail-Aluminium

1 : 2 @ A4	Sept 2019	Fig 13
Scale	Date	Dwg



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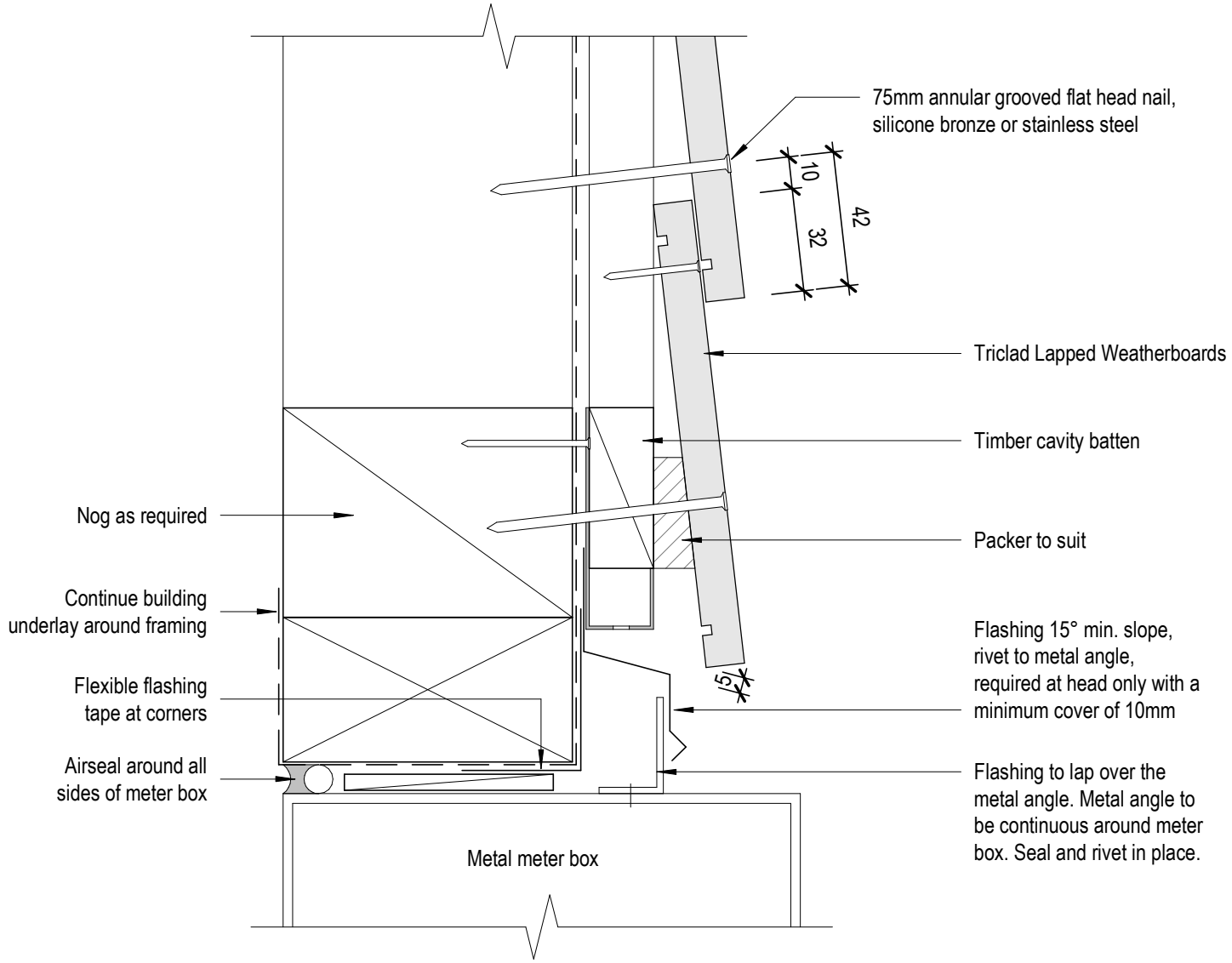
Cavity Fix
Window Sill Detail-Aluminium

1 : 2 @ A4	Sept 2019	Fig 14
Scale	Date	Dwg



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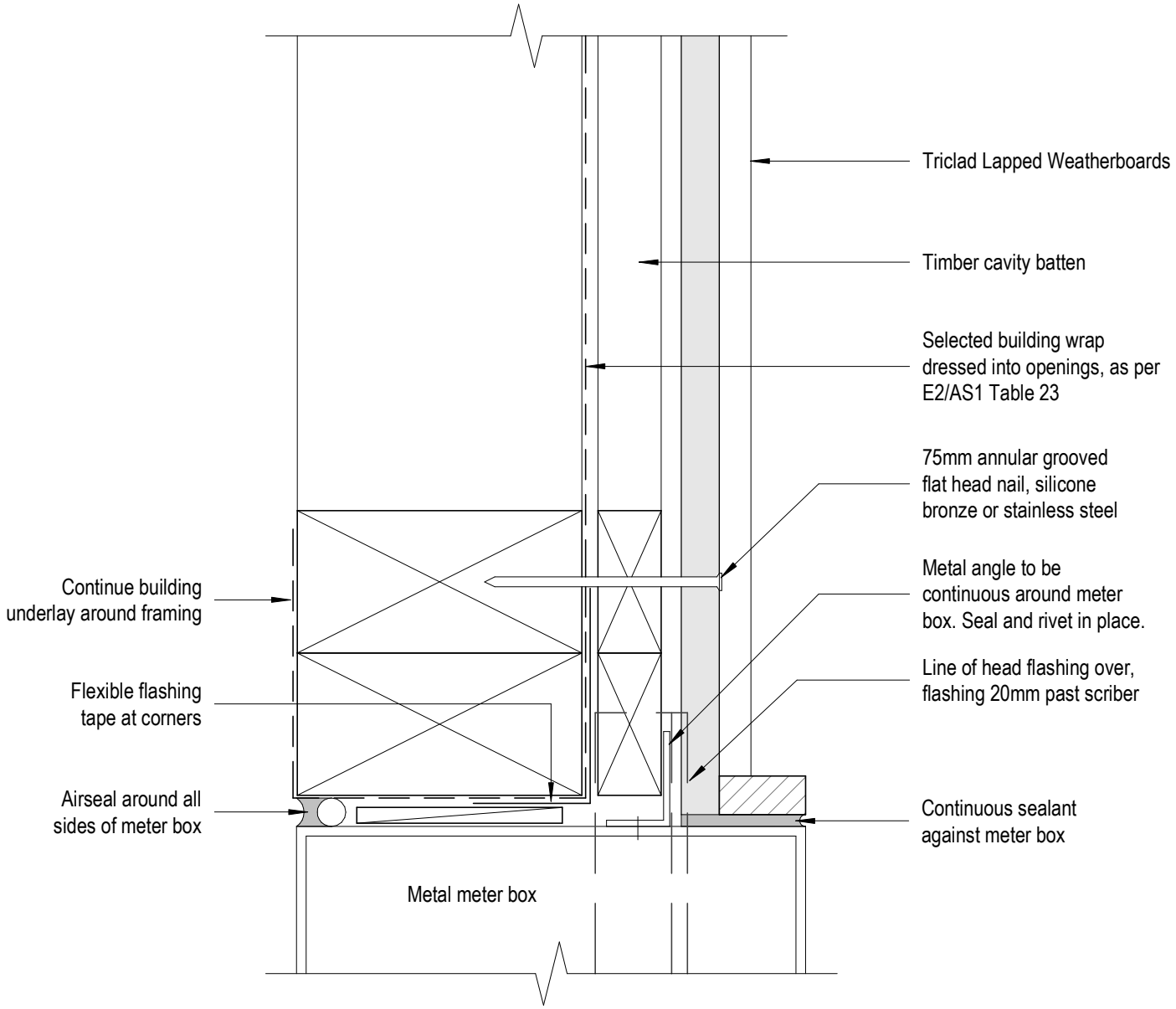
Cavity Fix
Meter Box Head

1 : 2 @ A4	Sept 2019	Fig 15
Scale	Date	Dwg



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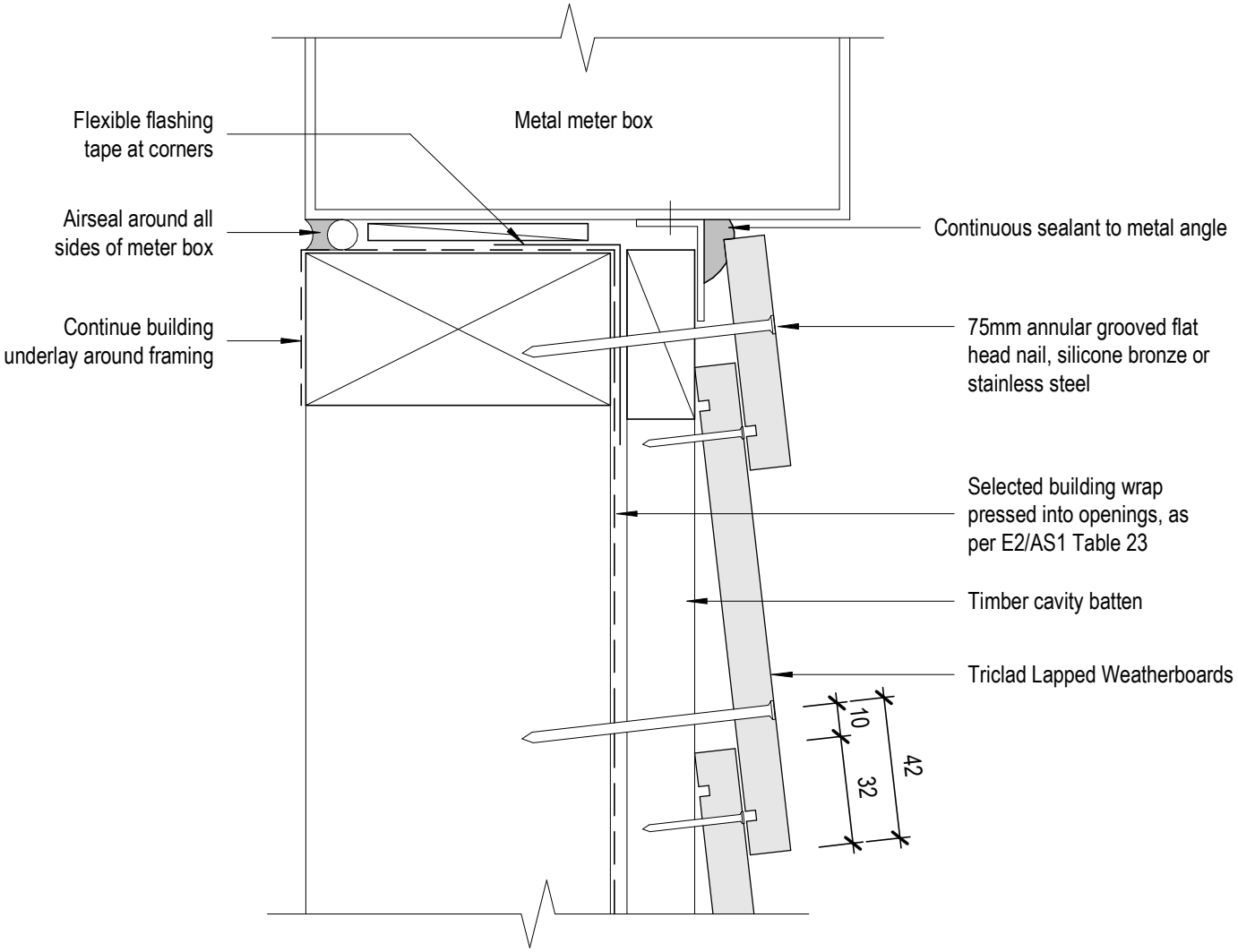
Cavity Fix
Meter Box Jamb

1 : 2 @ A4	Sept 2019	Fig 16
Scale	Date	Dwg



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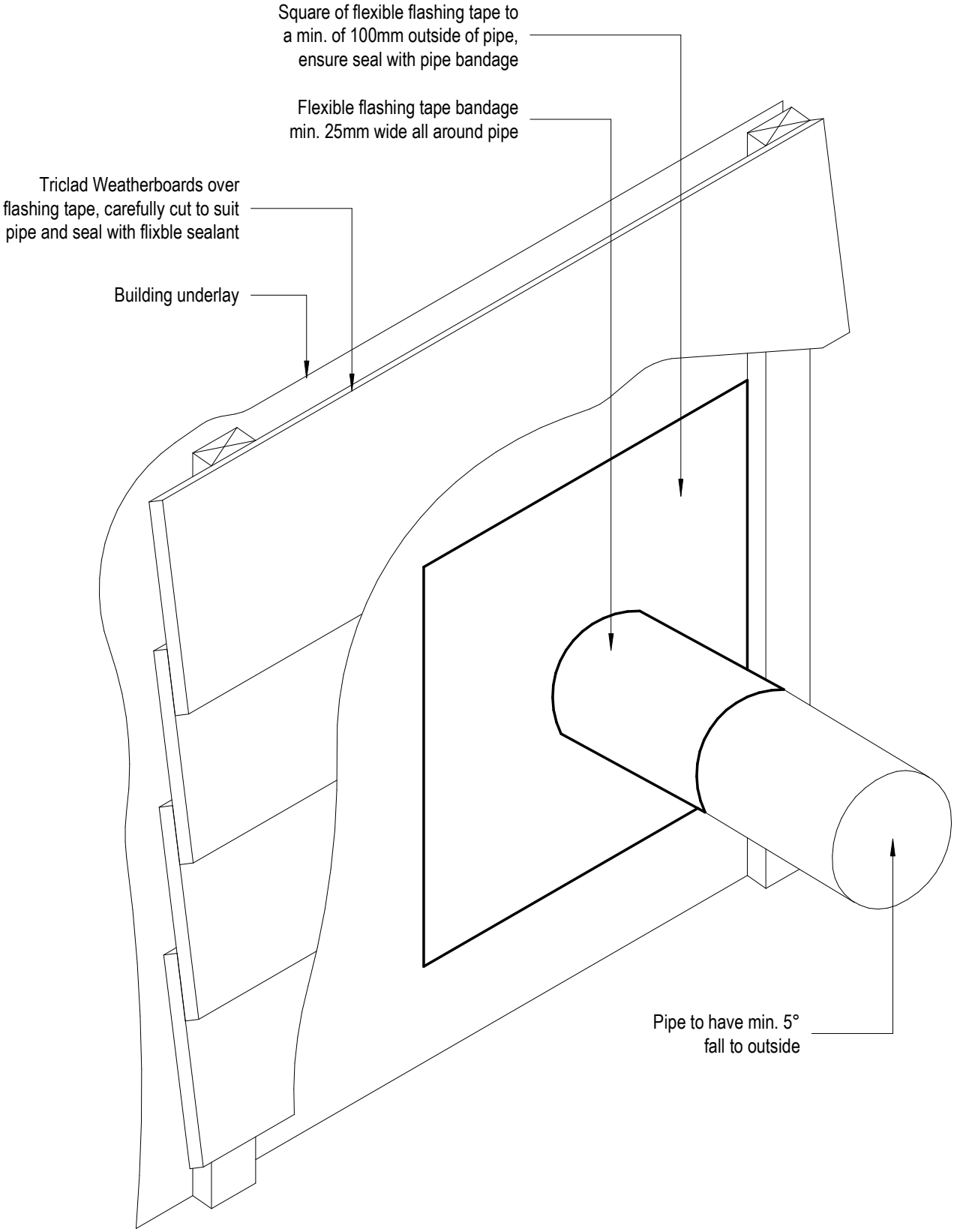
Cavity Fix
Meter Box Sill

1 : 2 @ A4	Sept 2019	Fig 17
Scale	Date	Dwg



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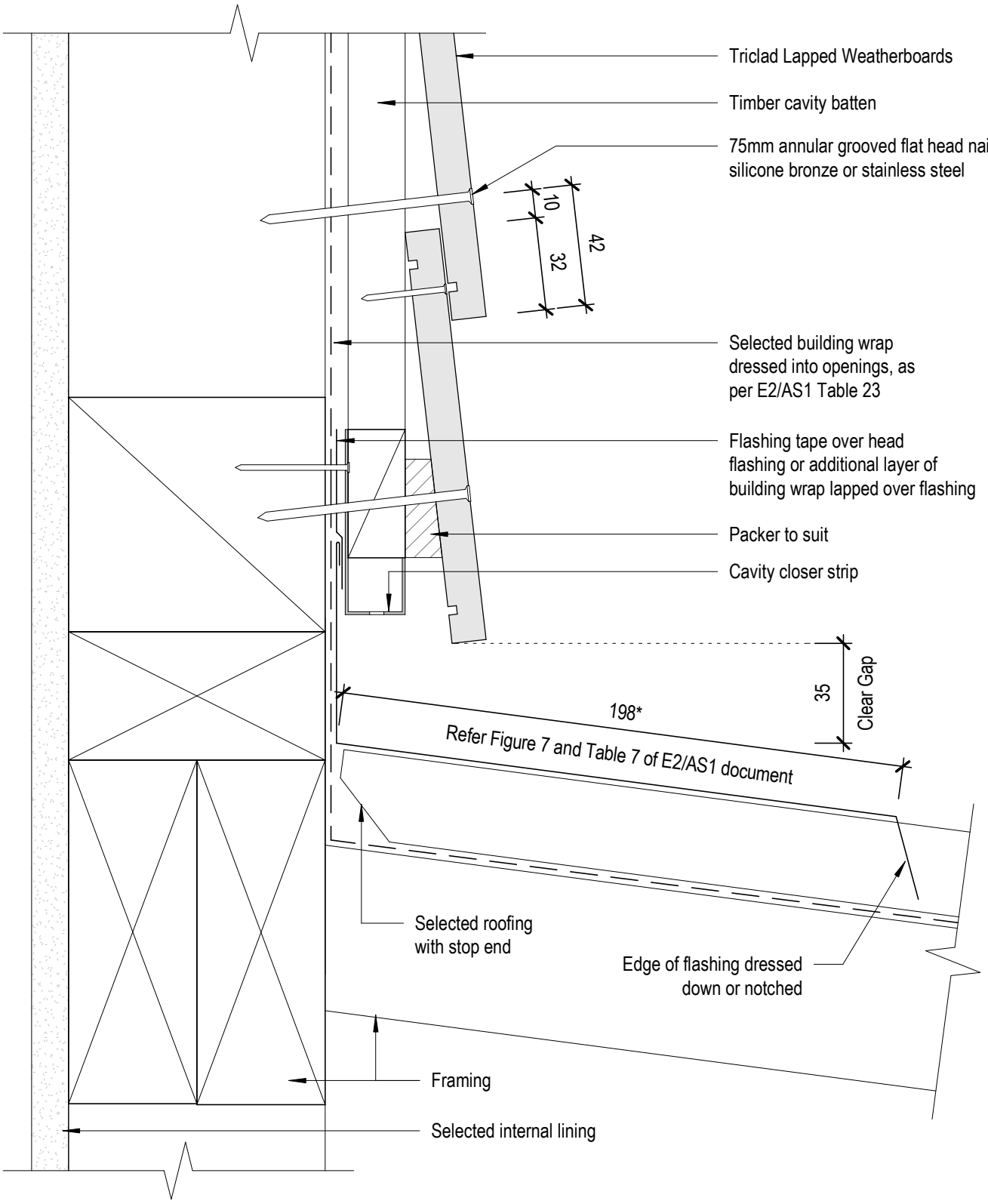
Cavity Fix Penetration Detail

1 : 5 @ A4	Sept 2019	Fig 18
Scale	Date	Dwg



* When 50 year durability for flashing is required refer to Tabel 20 NZBC E2/AS1 document.

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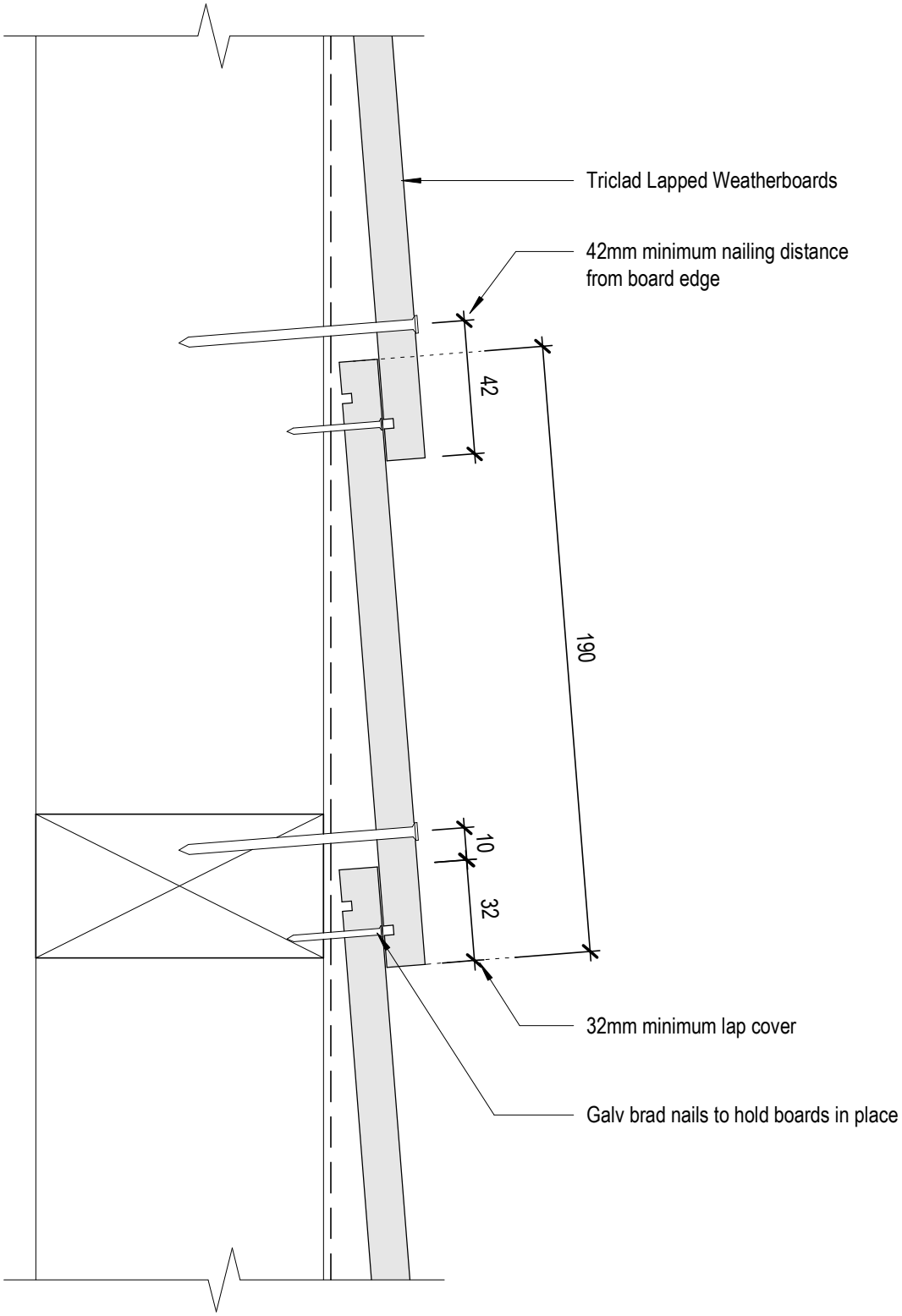
Cavity Fix Roof/Wall Detail

1 : 2 @ A4	Sept 2019	Fig 19
Scale	Date	Dwg



Direct Fix
Nailing Setout Detail

1 : 2 @ A4	Sept 2019	Fig 20
Scale	Date	Dwg

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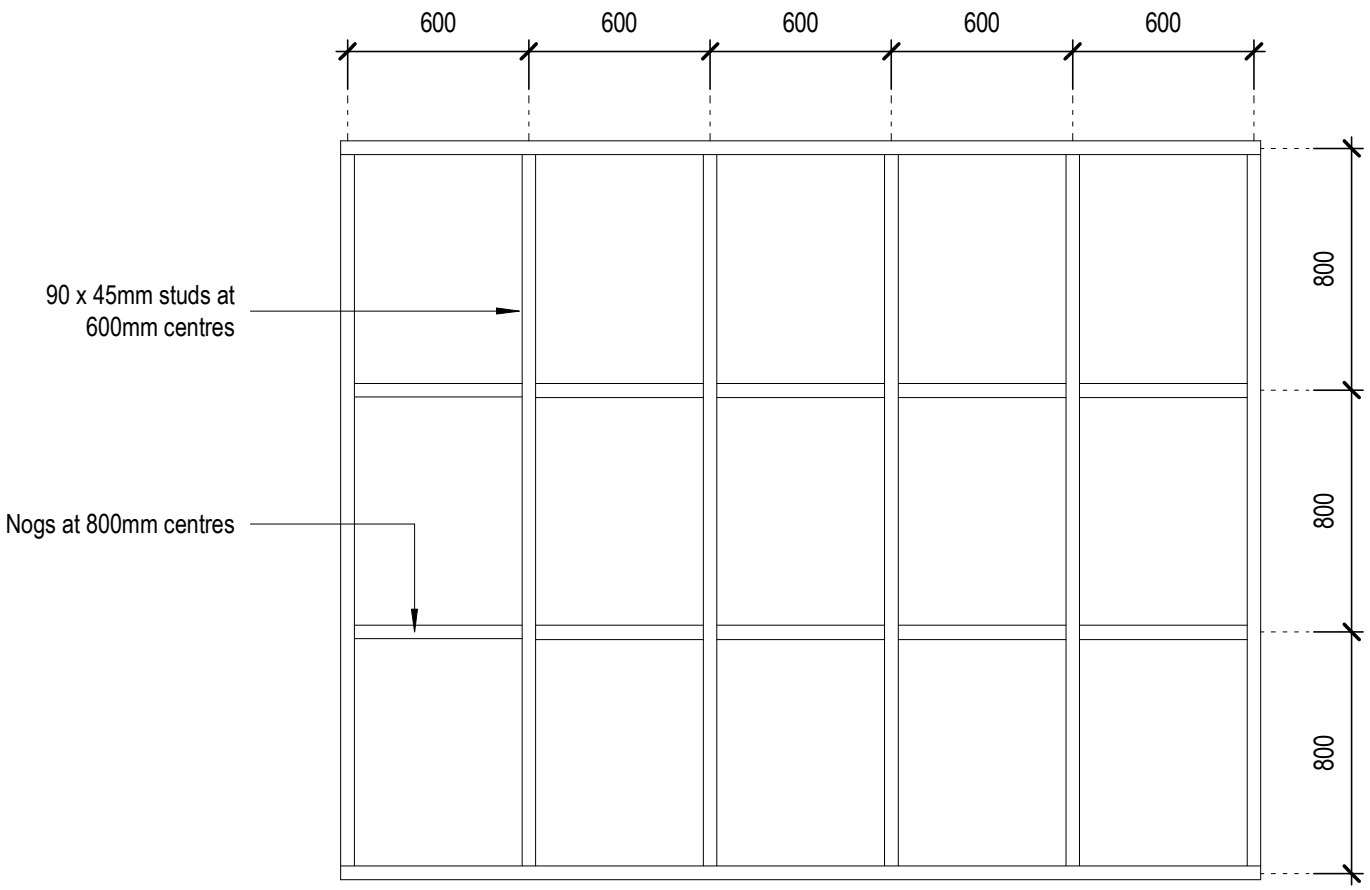

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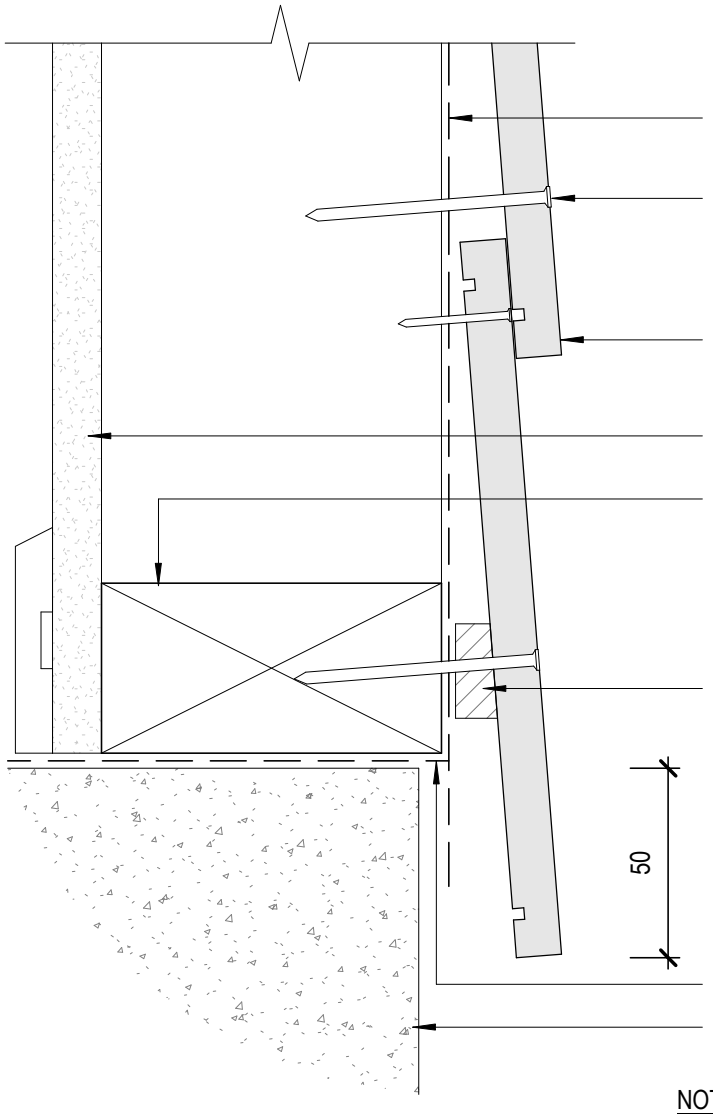
Direct Fix
Framing/Batten Setout

1 : 25 @ A4	Sept 2019	Fig 21
Scale	Date	Dwg



NOTE:
Ground clearances to bottom of cladding as per NZS3604:2011

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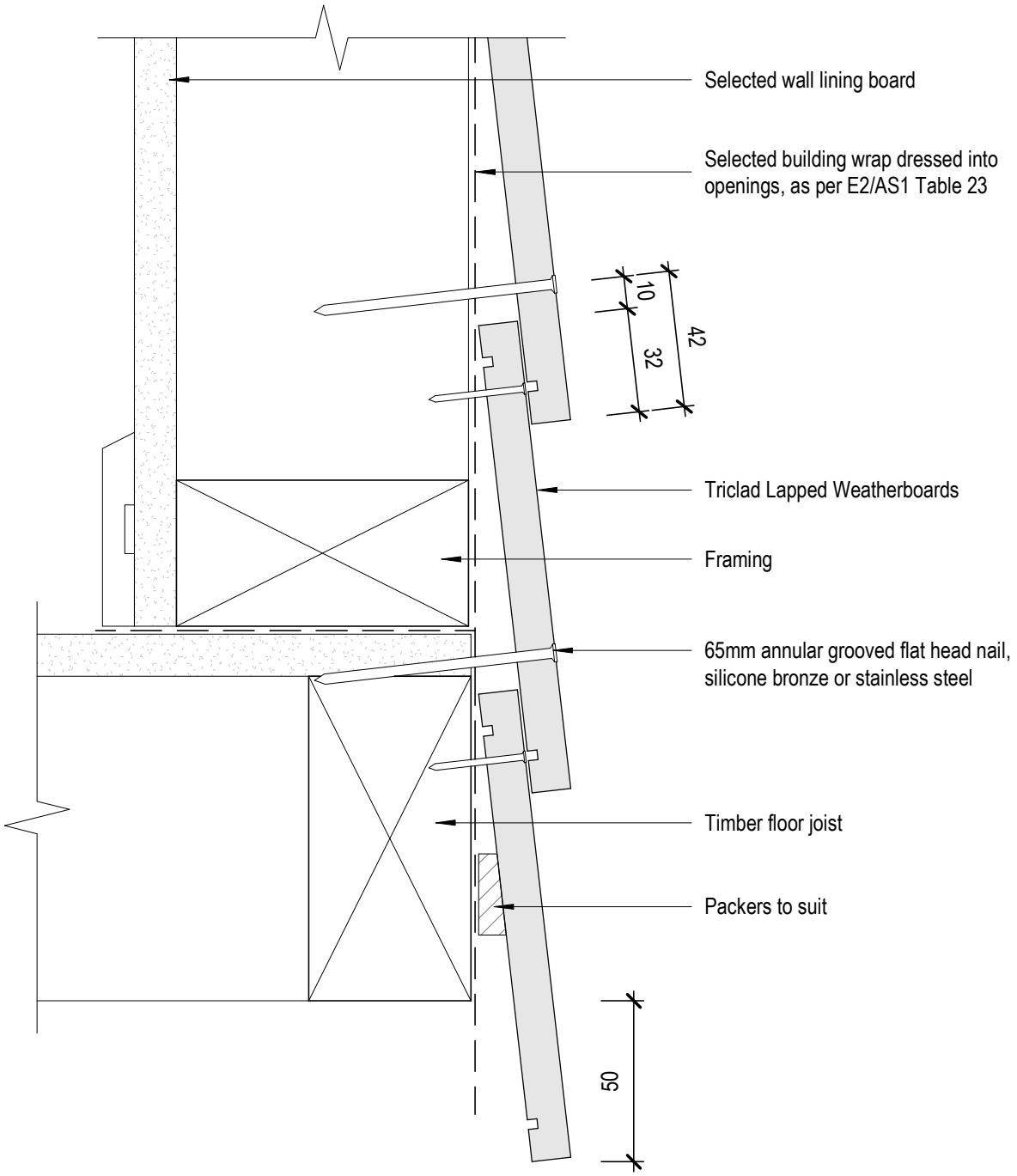
Direct Fix
Base Detail-Concrete Floor

1 : 2 @ A4	Sept 2019	Fig 22
Scale	Date	Dwg



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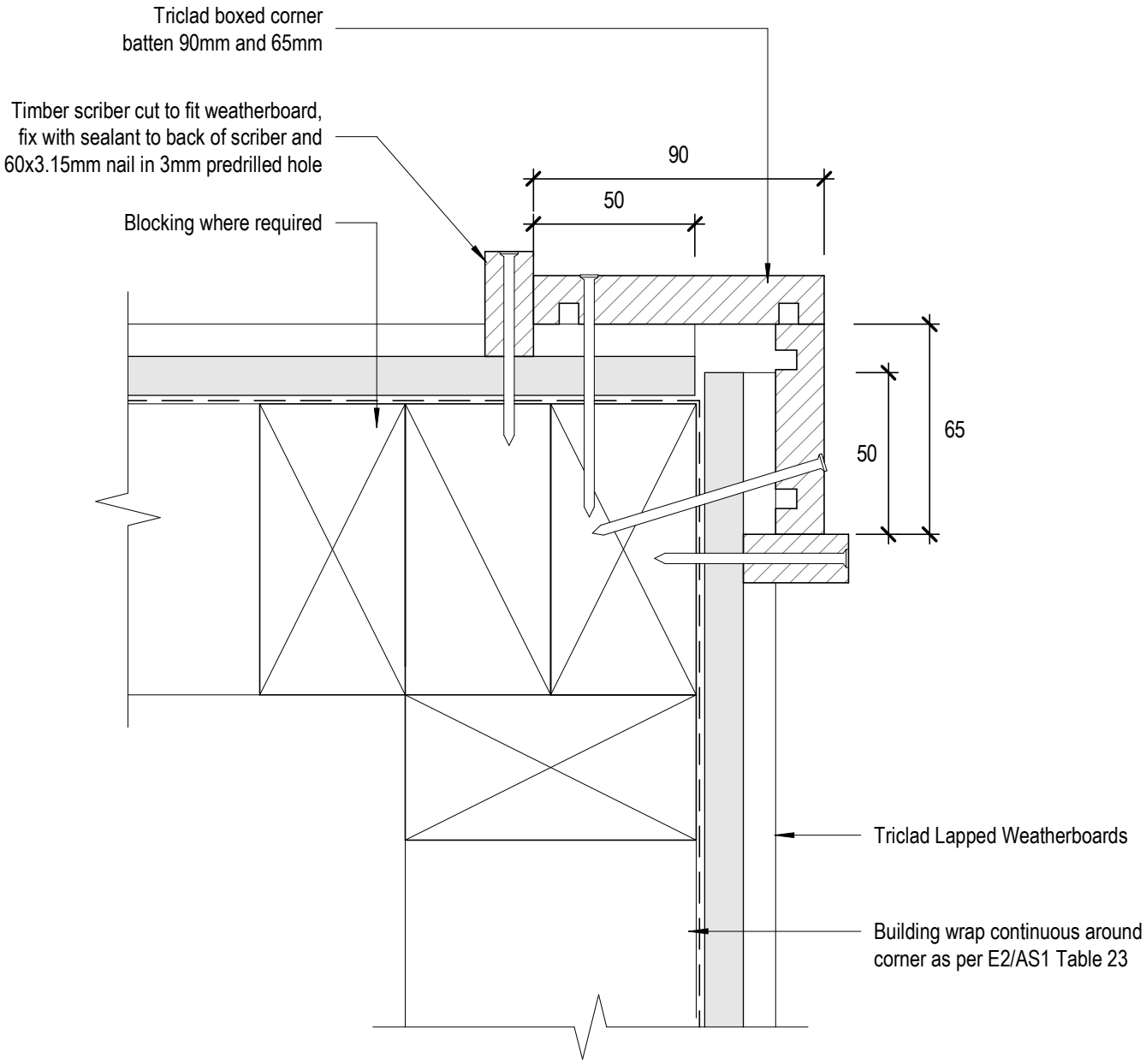
Direct Fix
Base Detail-Timber Floor

1 : 2 @ A4	Sept 2019	Fig 23
Scale	Date	Dwg



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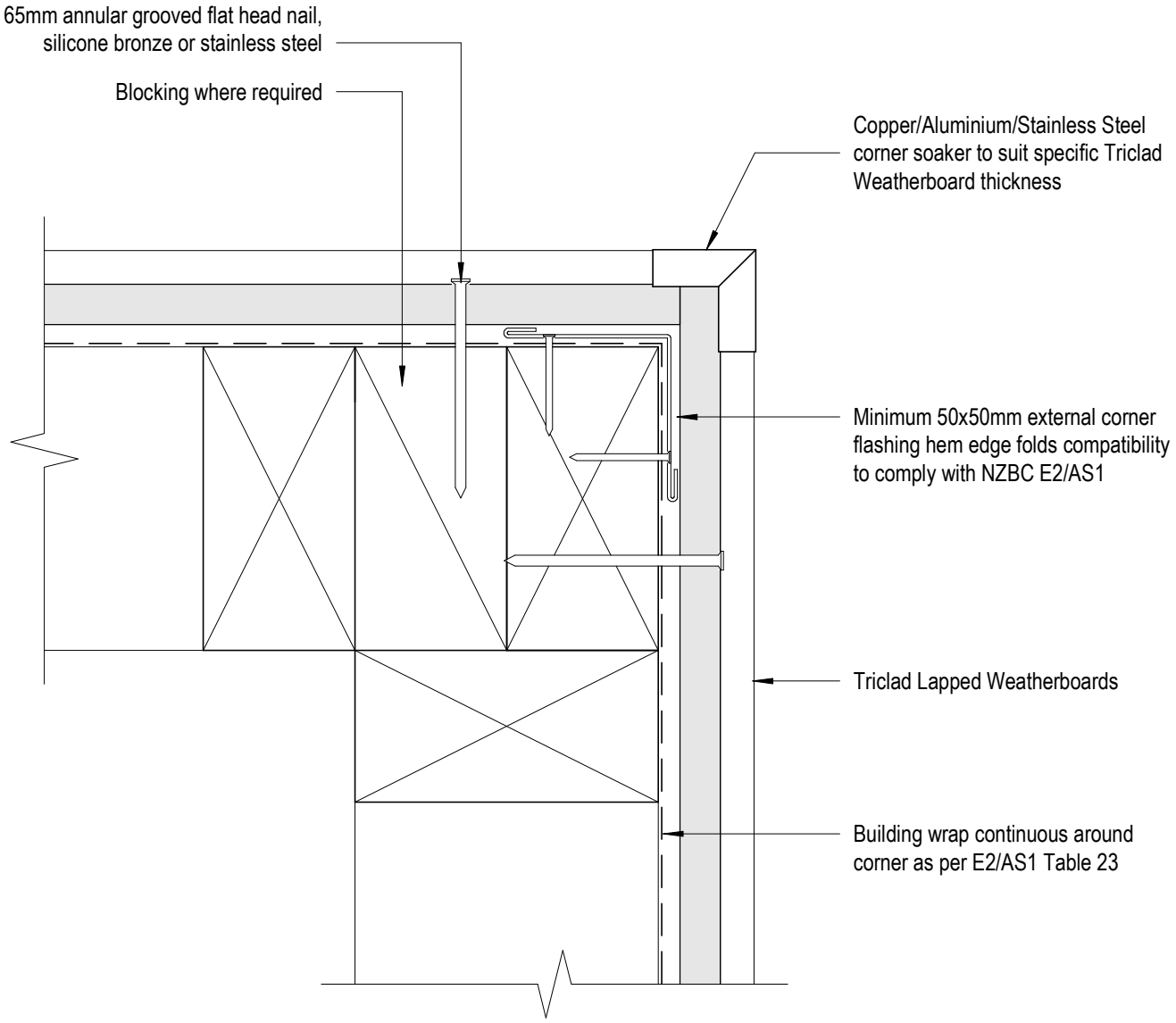
Direct Fix
External Corner-Boxed

1 : 2 @ A4	Sept 2019	Fig 24
Scale	Date	Dwg



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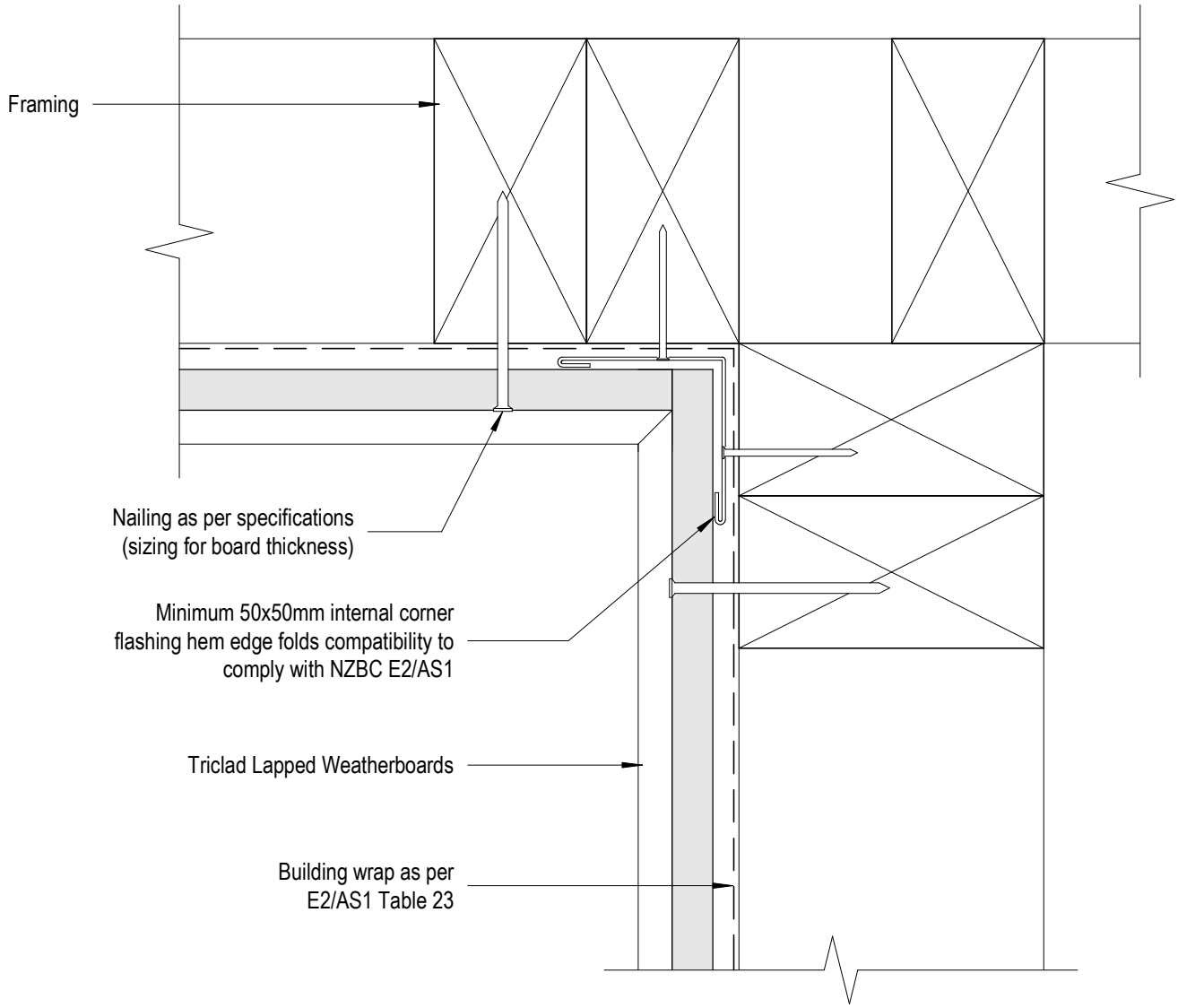
Direct Fix
External Corner-Soaker

1 : 2 @ A4	Sept 2019	Fig 25
Scale	Date	Dwg



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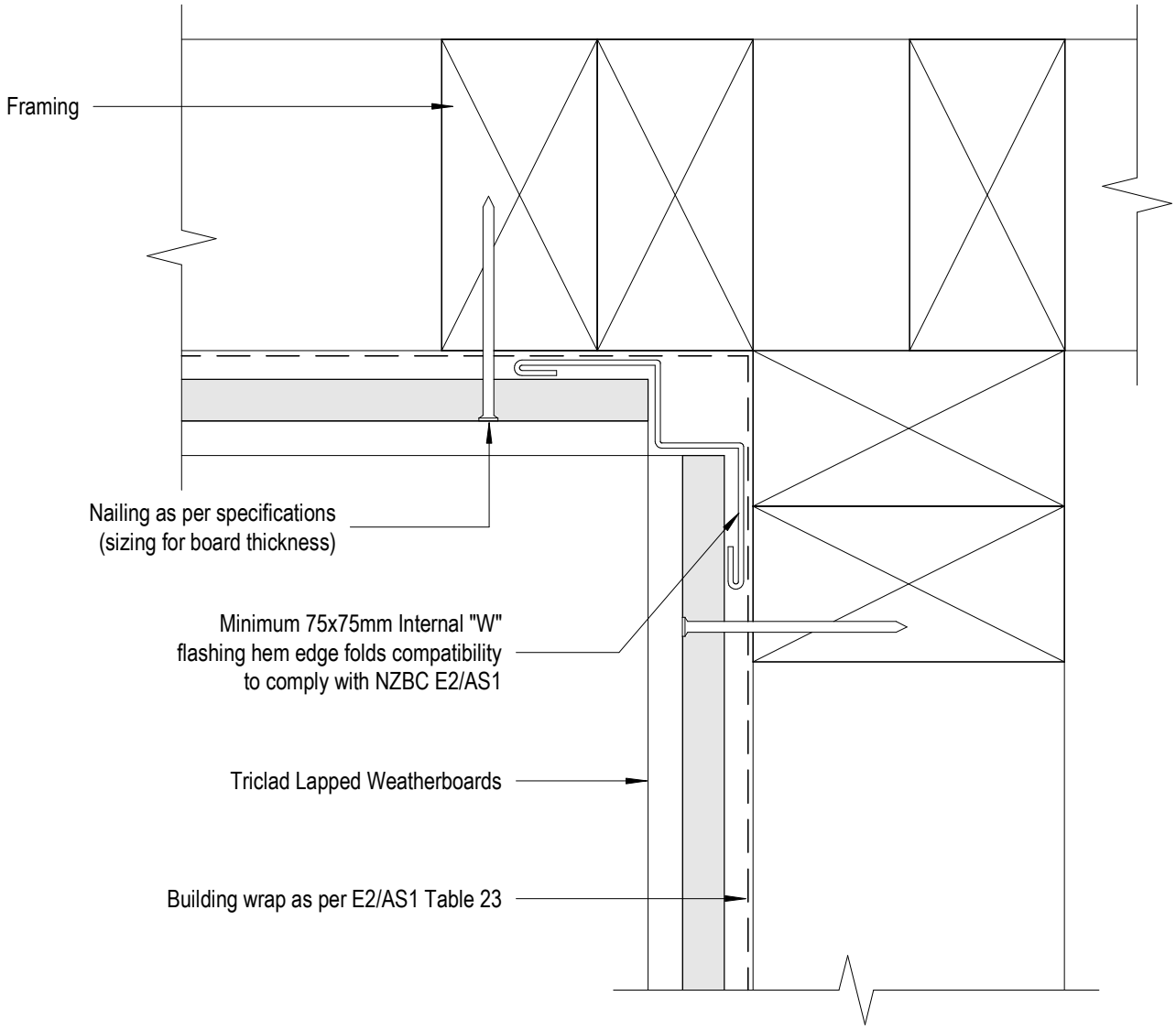
Direct Fix
Internal Corner-Option 1

1 : 2 @ A4	Sept 2019	Fig 26
Scale	Date	Dwg



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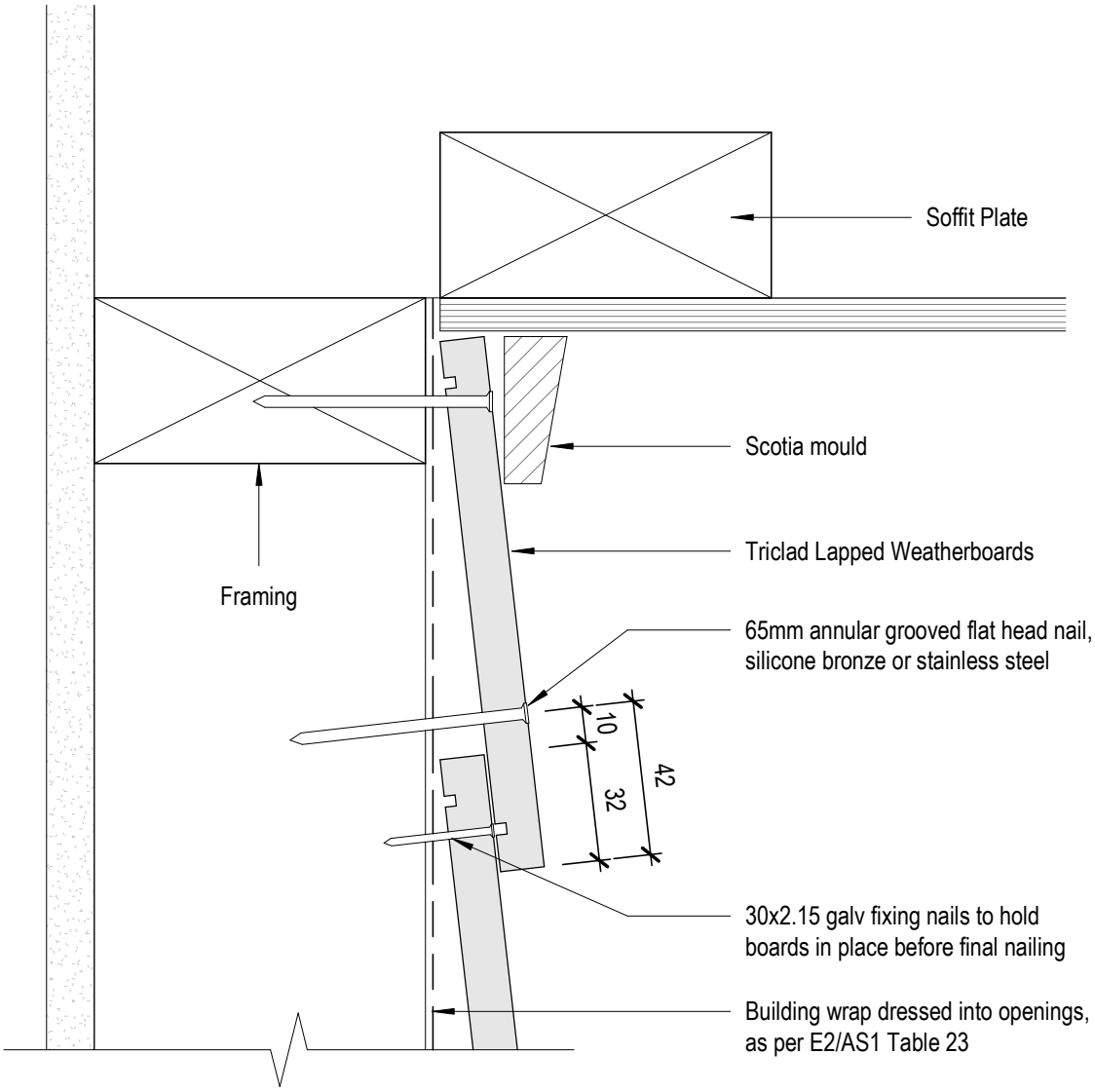
Direct Fix
Internal Corner-Option 2

1 : 2 @ A4	Sept 2019	Fig 27
Scale	Date	Dwg



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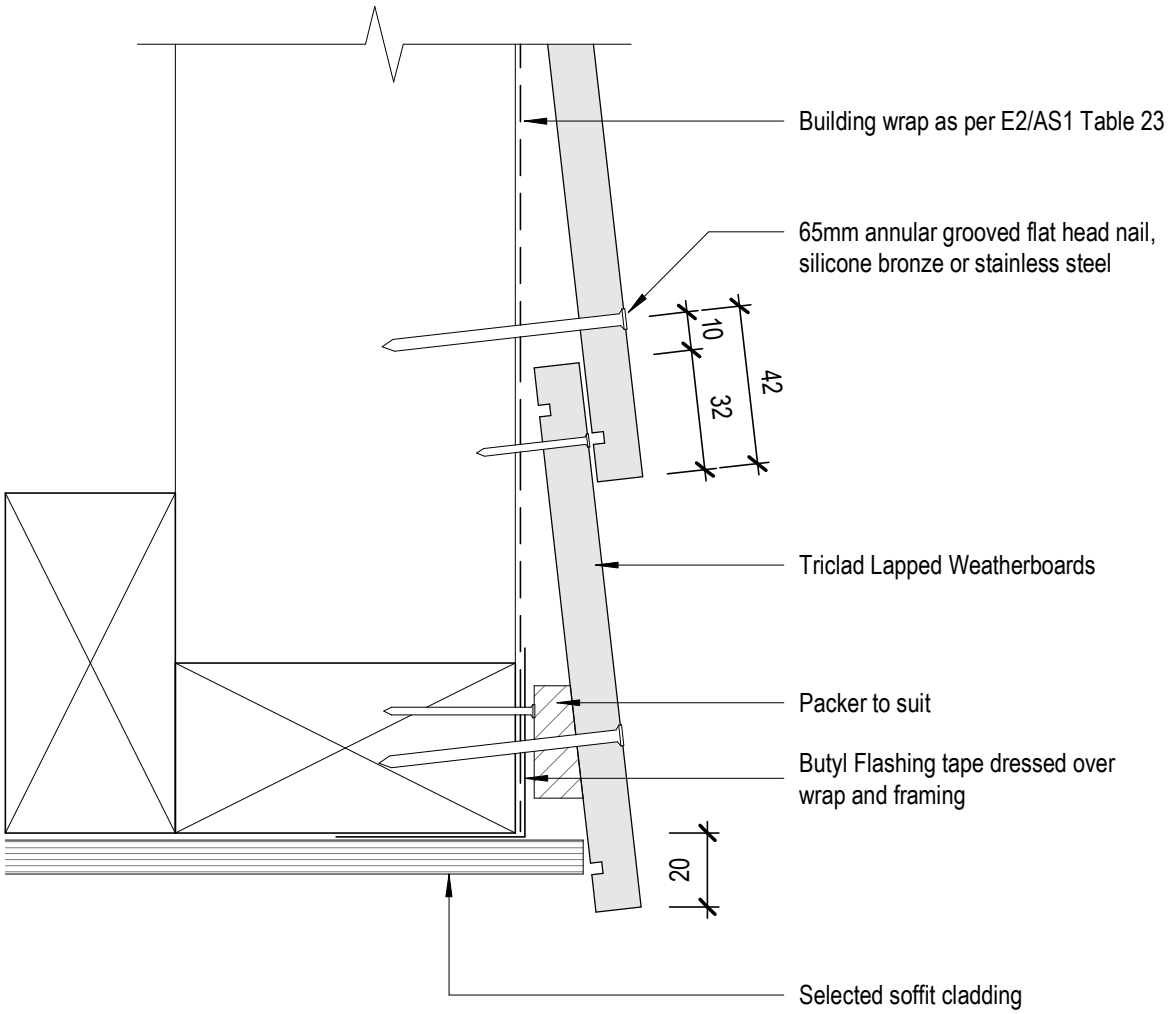
Direct Fix Soffit Detail

1 : 2 @ A4	Sept 2019	Fig 28
Scale	Date	Dwg



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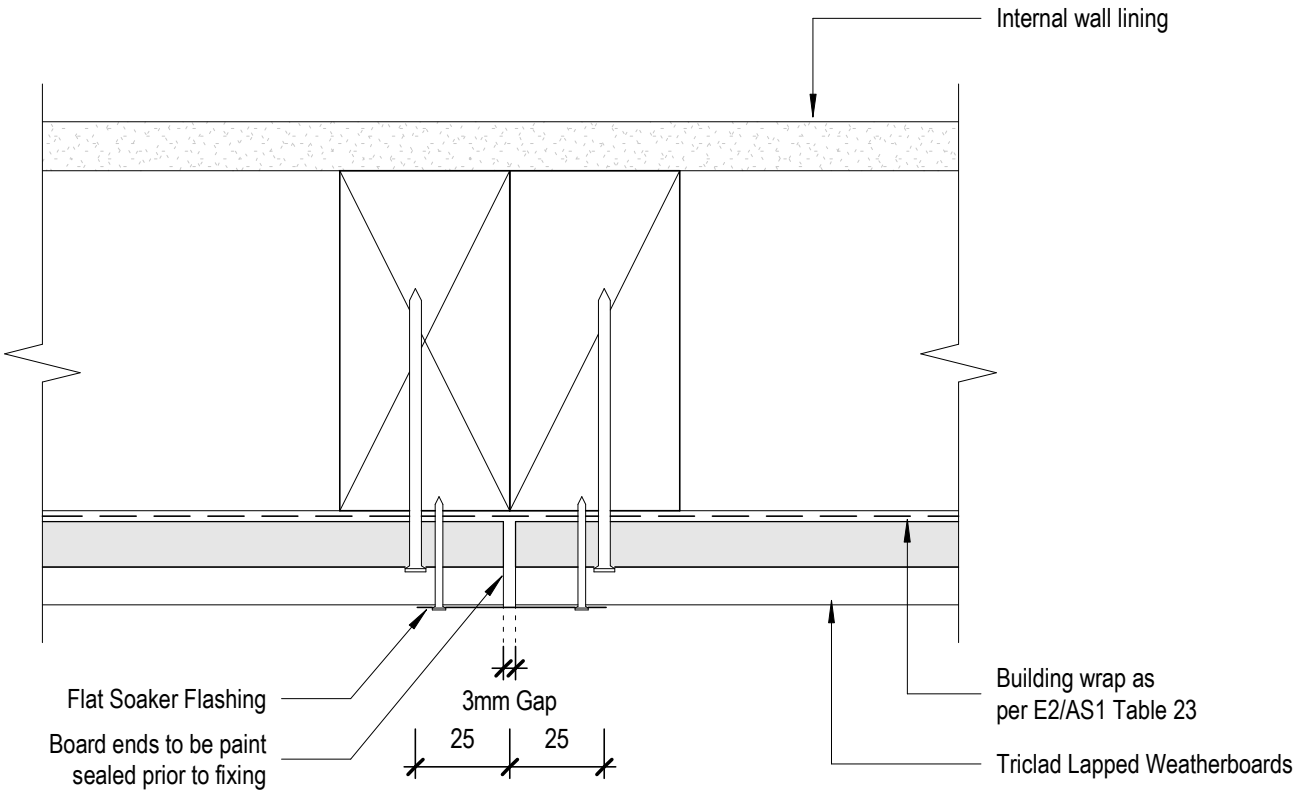
Direct Fix Soffit/Beam Detail

1 : 2 @ A4	Sept 2019	Fig 29
Scale	Date	Dwg



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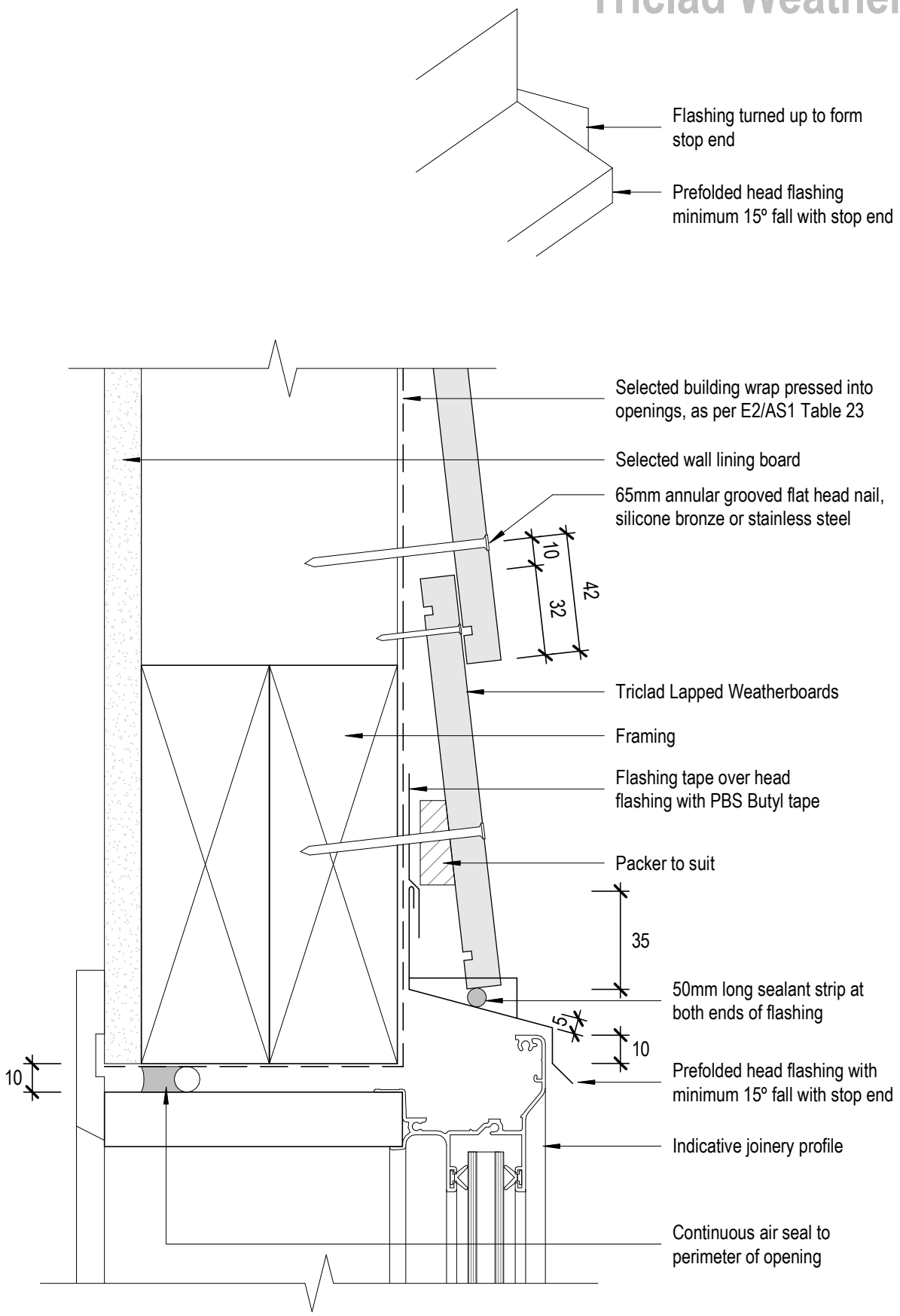
Direct Fix
Board Joint Detail

1 : 2 @ A4	Sept 2019	Fig 30
Scale	Date	Dwg



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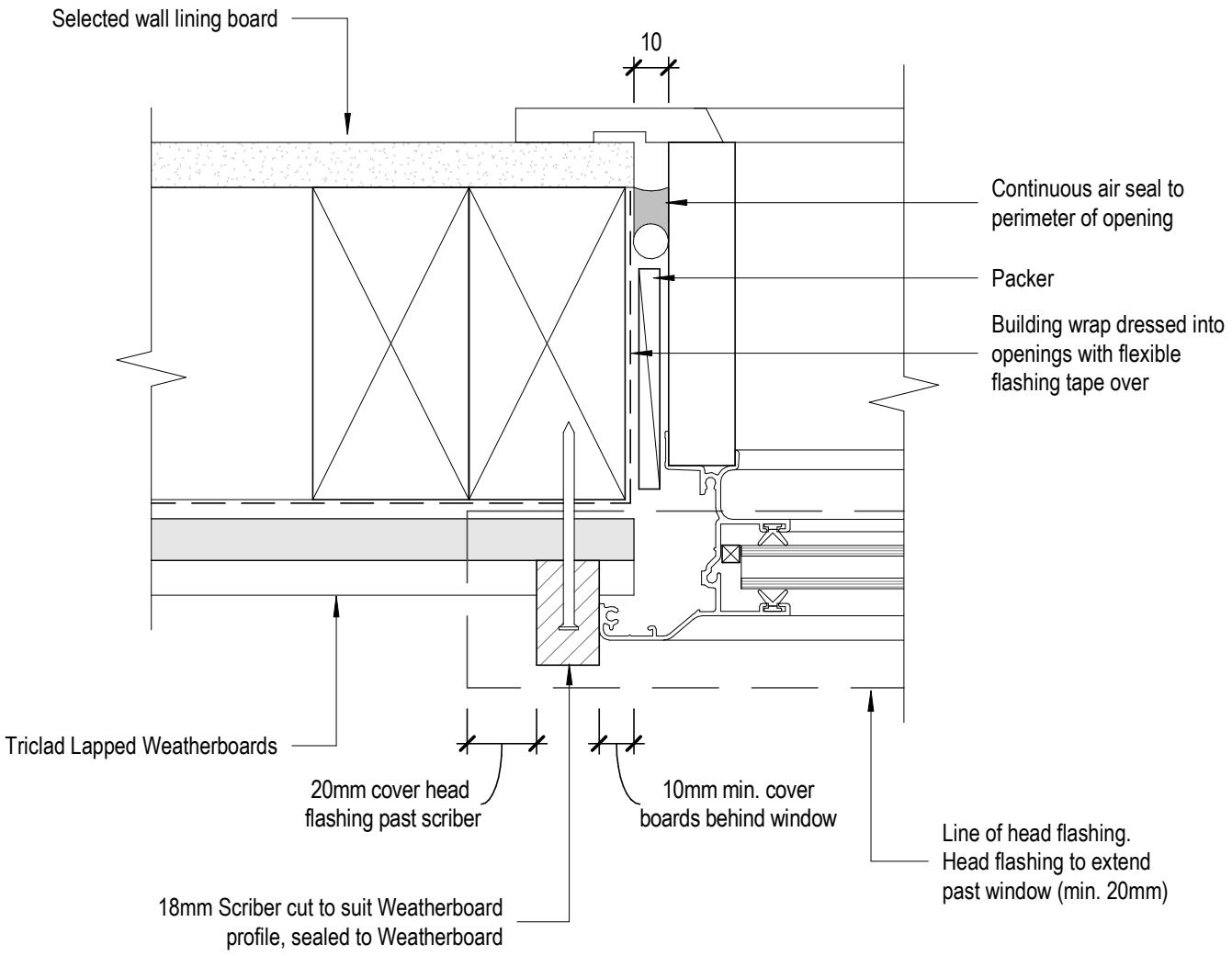
Direct Fix
Window Head Detail-Aluminium

1 : 2 @ A4	Sept 2019	Fig 31
Scale	Date	Dwg



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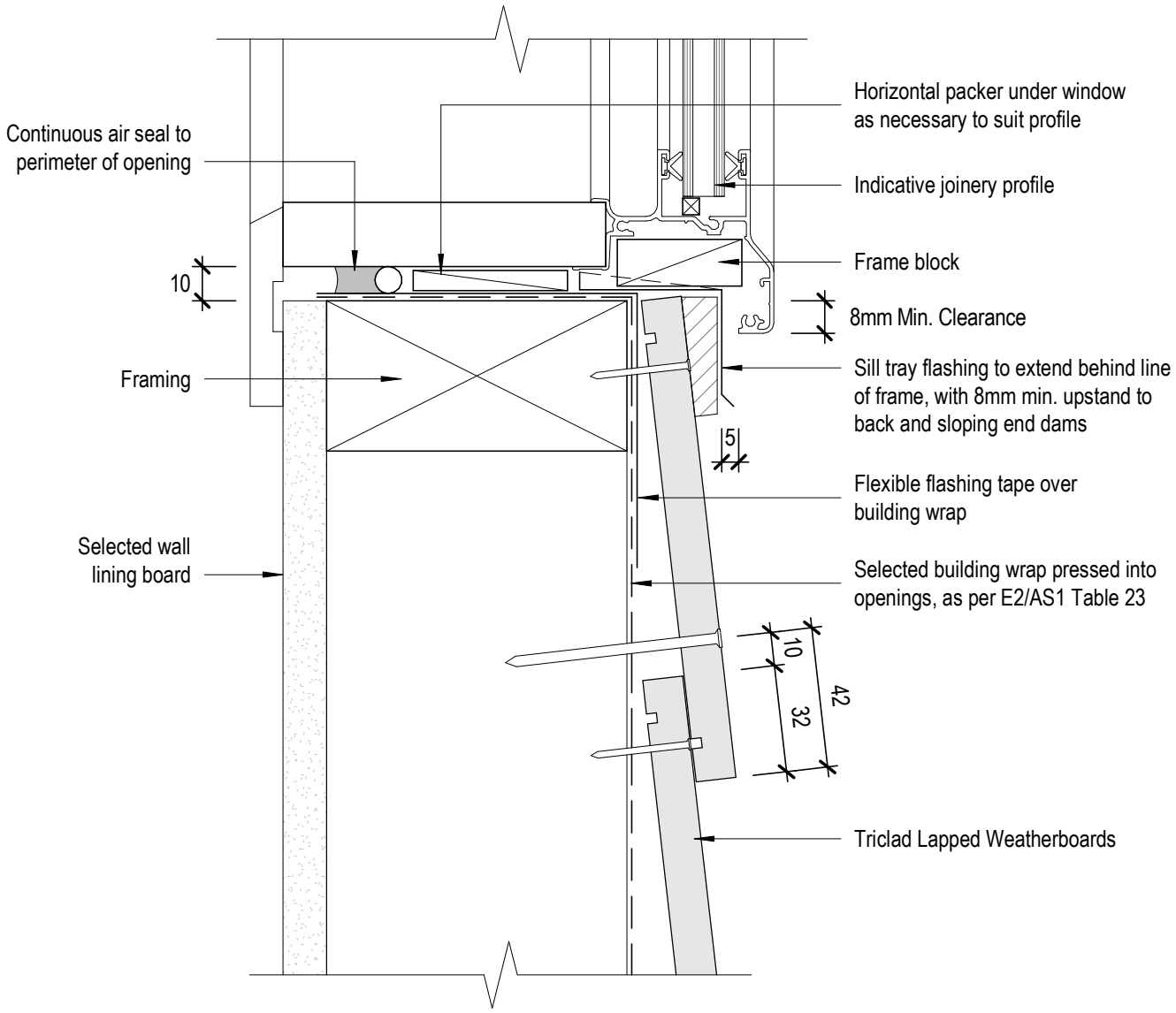
Direct Fix
Window Jamb Detail-Aluminium

1 : 2 @ A4	Sept 2019	Fig 32
Scale	Date	Dwg



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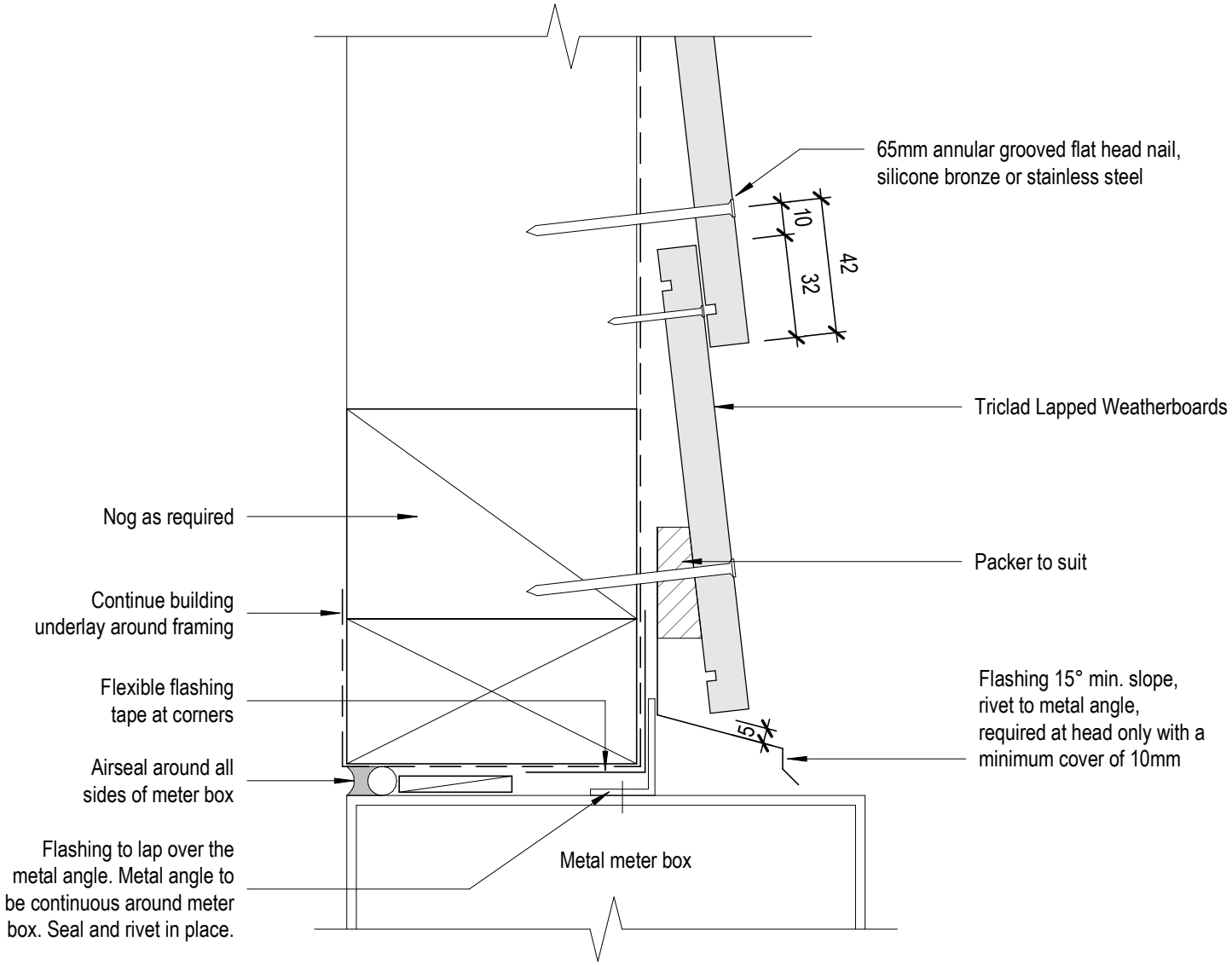
Direct Fix
Window Sill Detail-Aluminium

1 : 2 @ A4	Sept 2019	Fig 33
Scale	Date	Dwg



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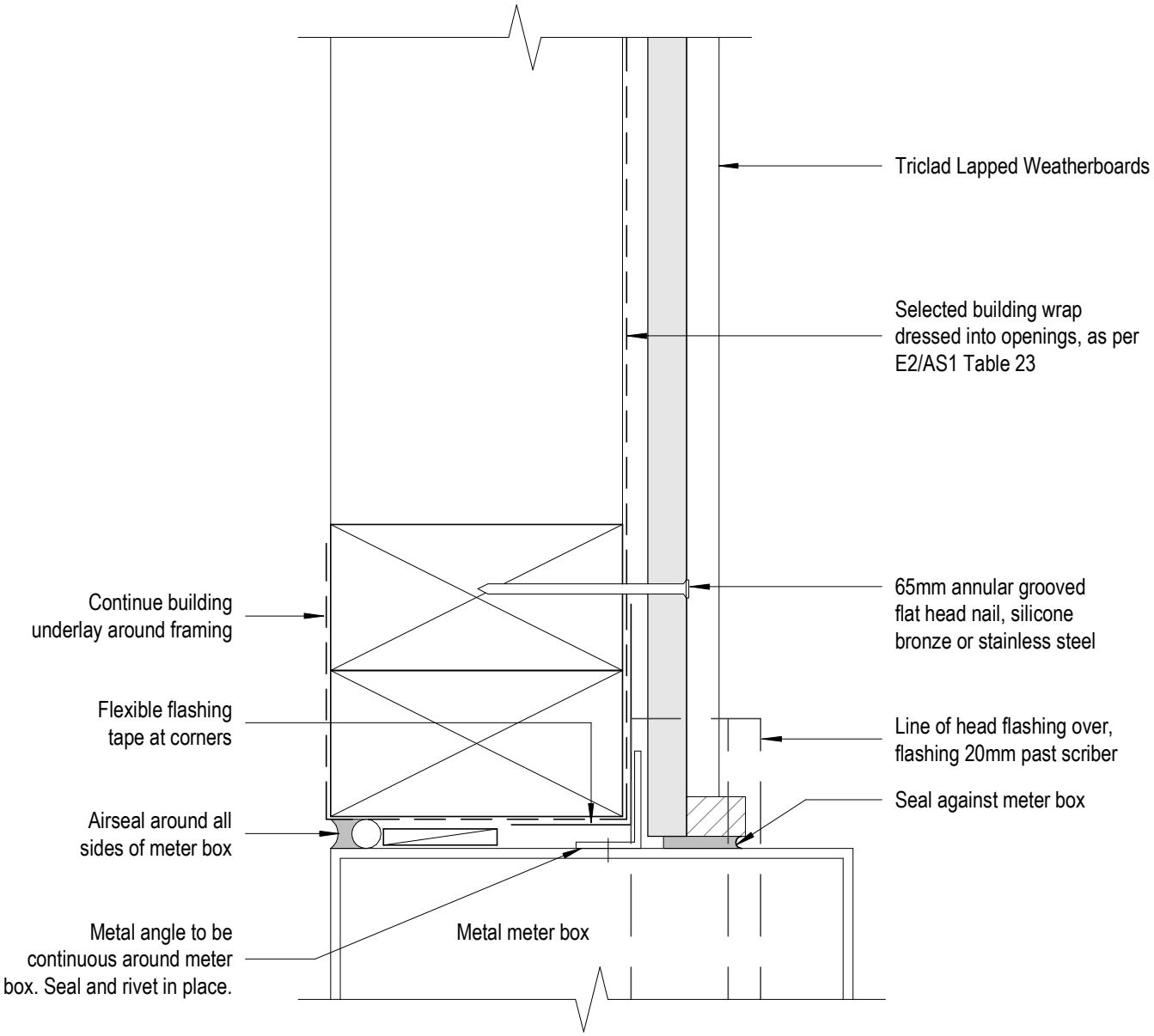
Direct Fix
Meter Box Head

1 : 2 @ A4	Sept 2019	Fig 34
Scale	Date	Dwg



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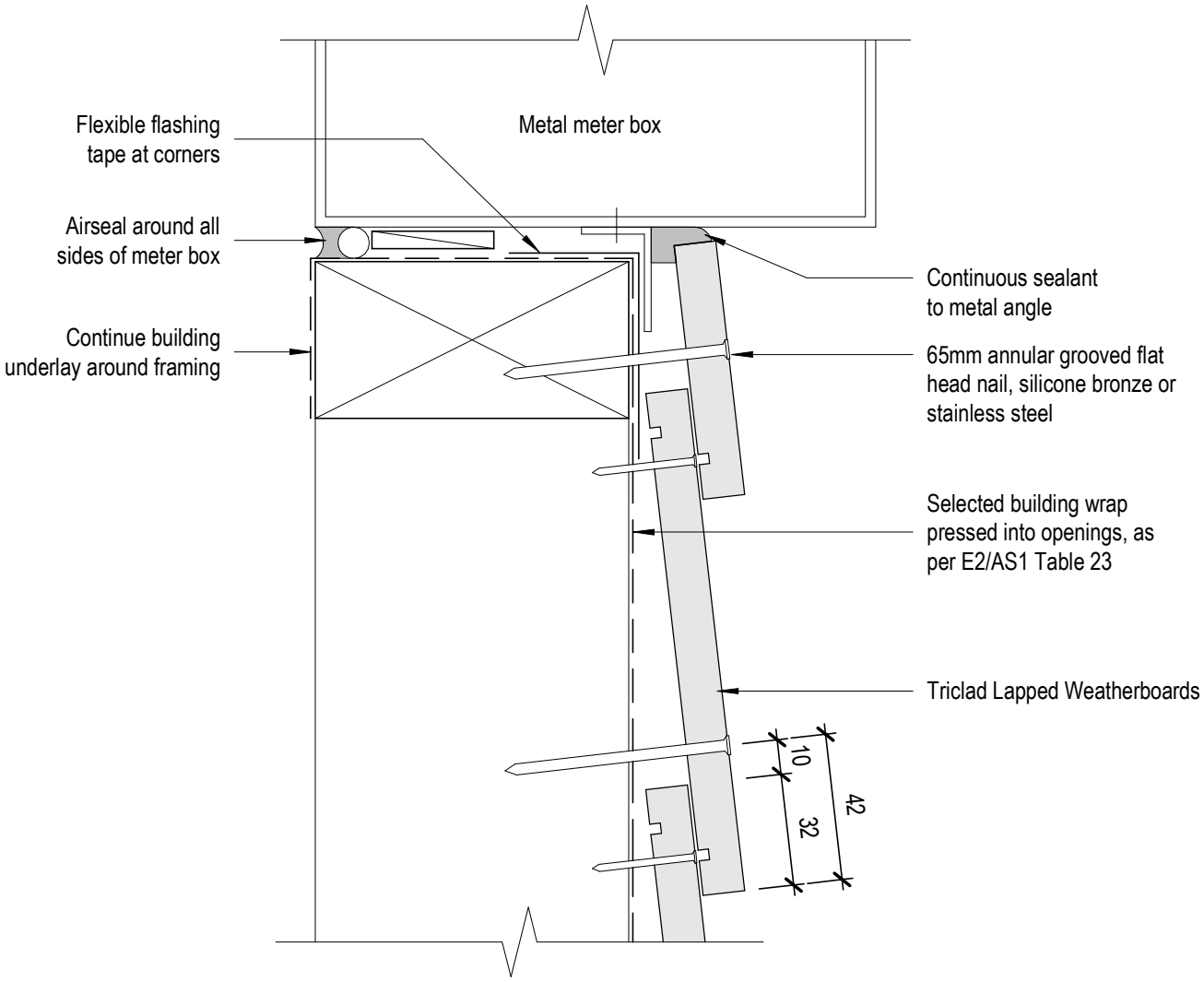
Direct Fix
Meter Box Jamb

1 : 2 @ A4	Sept 2019	Fig 35
Scale	Date	Dwg



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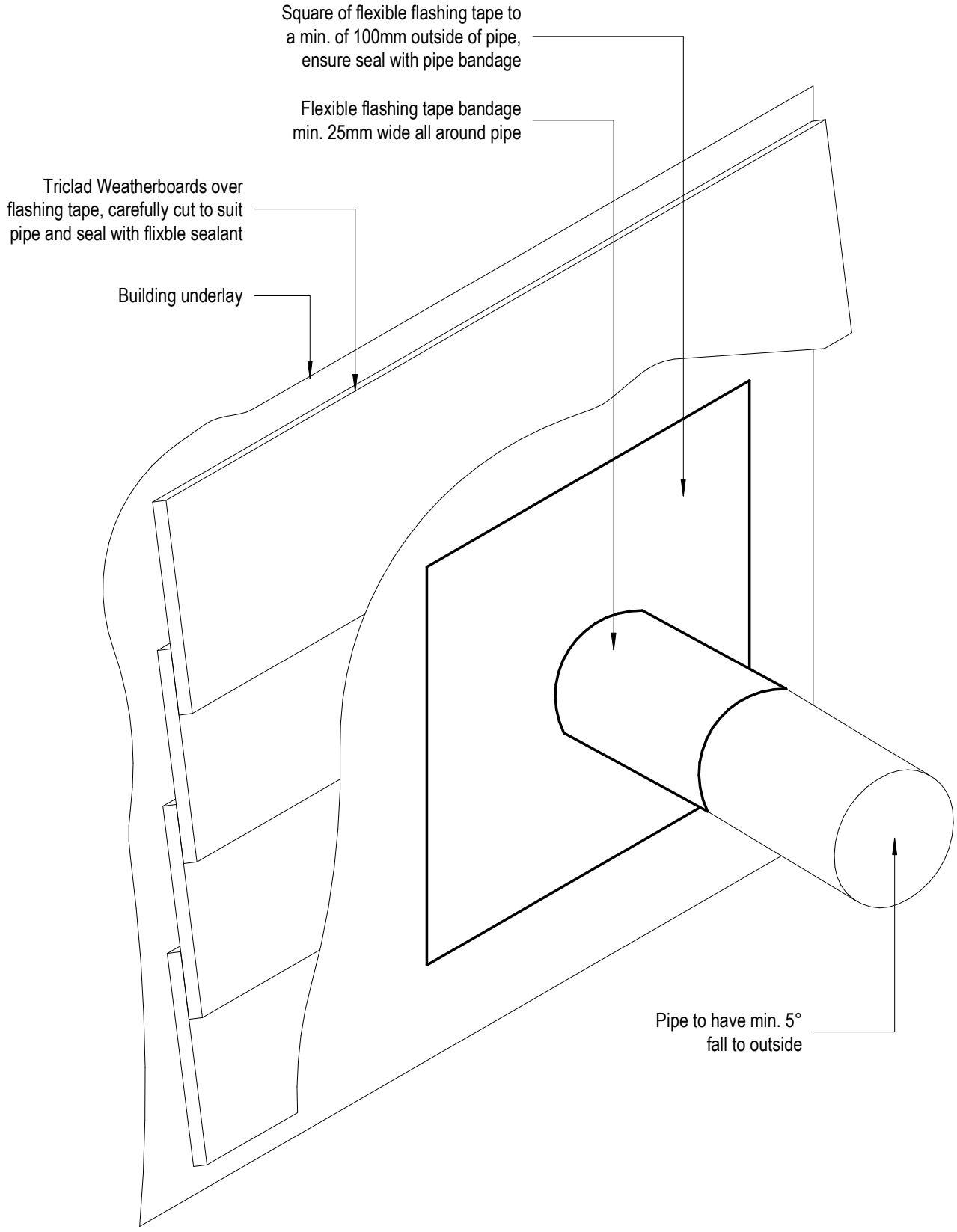
Direct Fix
Meter Box Sill

1 : 2 @ A4	Sept 2019	Fig 36
Scale	Date	Dwg



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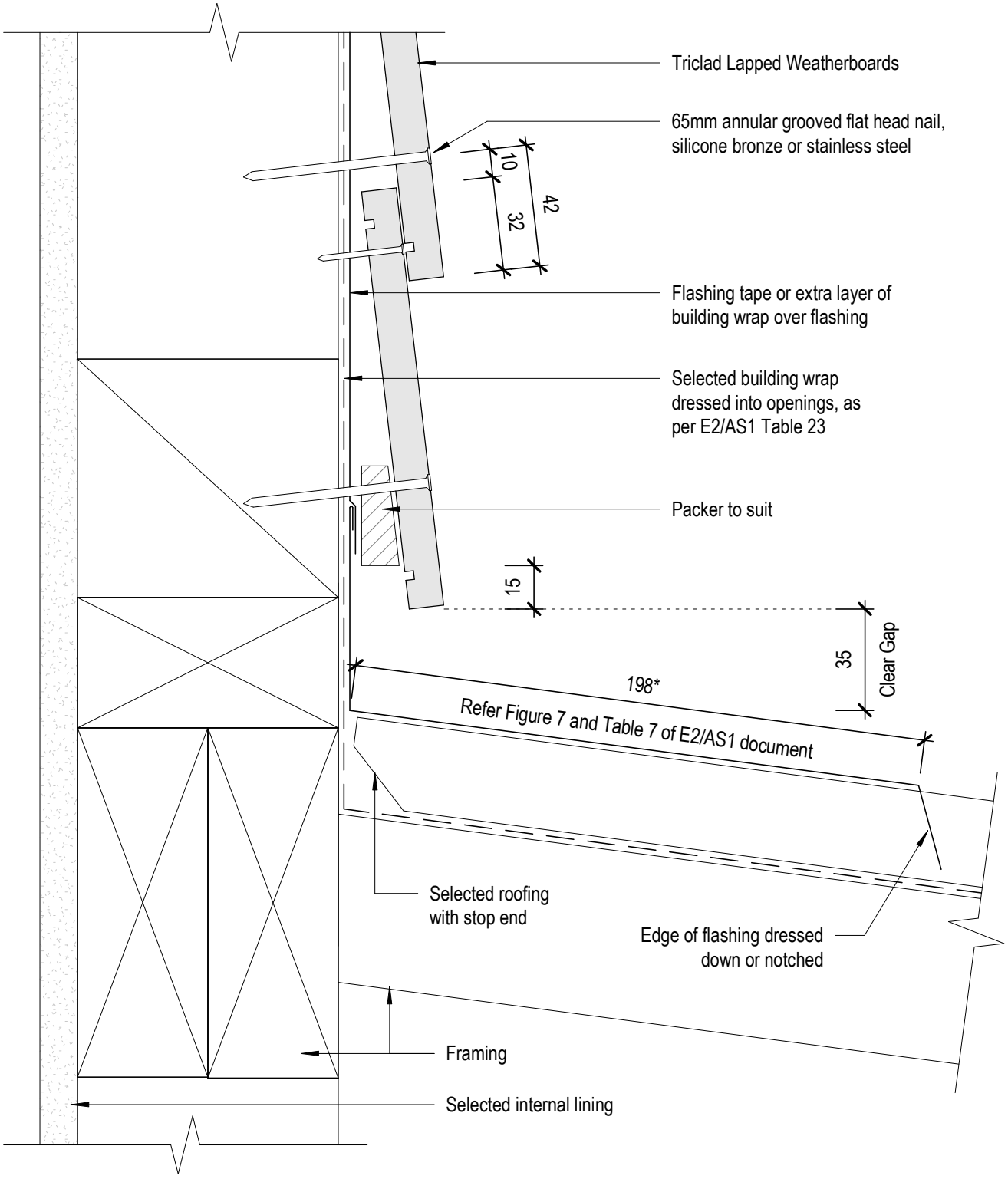
Direct Fix Penetration Detail

1 : 5 @ A4	Sept 2019	Fig 37
Scale	Date	Dwg



* When 50 year durability for flashing is required refer to Tabel 20 NZBC E2/AS1 document.

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Direct Fix Roof/Wall Detail

1 : 2 @ A4	Sept 2019	Fig 38
Scale	Date	Dwg