

EnduroClad™ – Board & Batten

Installation Details and Specifications for Direct Fix and Cavity Construction

December 2023





Table of Contents

1.	Product Description	3
2.	Performance.....	3
3.	Detail.....	4
4.	Limitations.....	4
5.	Product Range and sizes	4
6.	Product specifications and certifications	4
7.	Factory primed EnduroClad™ board, battens and components.....	5
8.	Timber Treatment	5
9.	Cladding Fixing	6
10.	Design Considerations	7
a.	Compliance.....	7
b.	Responsibility	7
c.	Ground level Clearances	7
d.	Moisture Management.....	7
e.	Wind Loading	7
f.	Other Cladding Junctions	7
g.	Interstory Junctions	7
11.	Health and Safety	8
12.	Storage and Handling.....	8
13.	Framing	8
a.	Compliance.....	8
b.	Construction.....	8
c.	Dimension	8
14.	Cavity Construction	8
15.	Wall Underlay.....	9
a.	Rigid Wall Underlays	9



16. Flashings.....	9
17. EnduroClad™ Joins.....	9
a. Vertical Join.....	9
b. Horizontal Join.....	9
18. Cover Battens	9
19. Cut Ends	9
20. Sealants.....	9
21. Durability	10
22. Coatings.....	10
23. Coating Application	10
a. For Un-primed Board and Batten	10
b. For Primed Board and Battens.....	10
c. For Factory Finishing Coated Board and Battens.....	11
24. Maintenance	11
25. Environment.....	11
a. Plywood	11
b. Undercoat/Primers.....	12
26. Drawing Directory	13

1. Product Description

The Triclad EnduroClad™ Board and Batten cladding system is a cavity or direct fixed plywood sheet wall cladding. It is designed to be used as an external cladding system for residential and light commercial type buildings where domestic construction techniques are used.

The Triclad EnduroClad™ Board and Batten cladding system consists of Triclad EnduroClad™ Boards – H3.1 treated plywood sheets with a bandsawn textured exterior surface, overlaid with H3.1 treated vertical timber battens at the joints and spaced throughout to simulate the look of traditional board and batten weatherboards. The Triclad EnduroClad™ Board and Batten system can be installed as a direct fixed cladding system (subject to NZBC risk score), or over cavity battens to form a drained and vented cavity. Triclad EnduroClad™ is available in three finish variants: un-primed, pre-primed, or primed with a first top coat.

Scope

- The Triclad EnduroClad™ Board and Batten cladding system has been Appraised 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 EnduroClad™ Board and Batten cladding system has also been Appraised 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 EnduroClad™ Board and Batten cladding system must only be installed vertically on vertical surfaces.
- The Triclad EnduroClad™ Board and Batten cladding system is appraised for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. (The Appraisal of Triclad EnduroClad™ Board and Batten cladding system relies on the joinery meeting the requirements of NZS 4211 for the relevant Wind Zone.)
- Triclad EnduroClad™ Board and Batten has been appraised for a three coat acrylic paint finish only

This EnduroClad™ 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.

2. Performance

EnduroClad™ Board & Batten 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

EnduroClad™ is BRANZ Appraised – 1063 (2019) as an external wall cladding.

3. Detail

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

4. Limitations

- EnduroClad™ Board and Batten 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.

5. Product Range and sizes

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

EnduroClad™ Product Range and Sizes			
Component	Thickness mm	Length mm	Width mm
Board	12.5	2440, 2745, 3000, 3300, 3600, 3900, 4200, 4500, 4800, 5100, 5400, 5700, 6000, 6300, 6600, 6900, 7200	1198
		(Special sizes subject to volume available on request)	
Batten*	19	Random	40, 65, 90
	45	Random	45
Complementary Products			
Fascia	17.5	4800, 2400	190, 230, 260, 295
Internal Corner Batten	32	5500	32
Cavity Batten	19	5200	45
*Boxed corner Batten	Boxed corners can be formed using a combination of the 65mm and 90mm cover batten as above		

6. Product specifications and certifications

Enduroclad™ Boards and Fascia:

- Are made from a variant of bandsawn 2440mm x 1198mm 12.5mm un-grooved AlpineClad plywood manufactured in Greymouth by International Panel and Lumber (IPL) – www.iplplywood.co.nz,
- Are factory finger jointed to create the lengths above 2440mm,
- Have been assessed by BRANZ as meeting the NZBC as an exterior cladding,
- Are H3.1 LOSP treated in accordance with AS/NZS 1604.3,
- Are produced 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,
- Fascia has a bandsawn face with grooves for soffit material.

Enduroclad™ Battens

- Are made from solid pine,
- Are H3.1 LOSP treated,
- Have a band-sawn finish on the face and two sides,
- Have two weather grooves on the back.

7. Factory primed EnduroClad™ board, battens, and components

The EnduroClad™ board, battens and other components are available in different priming configurations and type depending upon the final finish required:

Board Finish Required	Sides pre-primed	Primer Type
Paint finish	Edges, back and face	Paint Plus – Quick Prep General Purpose Acrylic Undercoat.
Timbakote Finish	Edges, back and face	Timbakote Rustic Basecoat Opaque Acrylic Coating.
Batten Finish Required	Sides Coated	Primer
Paint finish	Edges, back and face	1. Paint Plus – Quick Prep General Purpose Acrylic Undercoat. or 2. PPG acrylic oil based 839 Enduraprime.
Timbakote Finish	Edges, back and face	Timbakote Rustic Basecoat Opaque Acrylic Coating.

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.

8. Timber Treatment

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

The treatment to the EnduroClad™ boards and the Fascia product 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 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 feel greasy to touch.

The treatment to the battens is fully penetrating so cut ends are not required to be retreated.

9. Cladding Fixing

- All Enduroclad™ panels longer than 2440mm must be installed so that **the tongue of the factory manufactured join is facing upwards**. All EnduroClad™ board fixings must be fixed into the framing if direct fixed or through the cavity battens into framing if on cavity construction, penetrating the framing by a minimum of 30mm
- Drive nails flush with the board. **Do not over drive**.

Joint	Length (mm) x diameter (mm) and type	Minimum Framing Penetration	Fixing Pattern
Direct Fix			
Enduroclad to Stud	50 x 2.8FH nail	30 mm	150 mm centres around perimeter 300 mm centres in middle
Cover Batten over stud	65 x 3.2 RH annular grooved nail	30 mm	300 mm centres in middle of batten
Cover Batten not over stud	65 x 3.2 RH annular grooved nail	30 mm	to each max 600 center nog
Over Cavity			
Enduroclad to Stud	60 x 2.8 FH nail	30 mm	150 mm centres around perimeter 300 mm centres in middle
Cover Batten over stud	60 x 2.8 JH nail	To cavity batten	300 mm centres in middle of batten
Cover Batten not over stud	65 x 3.2 JH nail	10 mm into nog	To either intermediate cavity battens or 5° sloping cavity spacer at each max 600 center nog
Notes: <ul style="list-style-type: none"> • Nail lengths are designed for minimum penetration of framing. If thickness of cavity battens, cladding or underlay is varied, nail length shall be adjusted accordingly. • Stainless steel nails where used, shall have annular grooves to provide similar withdrawal resistance to hot-dip galvanised nails. Legend: RH: rose head, JH: jolt head, FH: flat head			

Nail fixing material for EnduroClad™ Board 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 NZ3604 '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.

10. Design Considerations

a. Compliance

When installed in accordance with this literature EnduroClad™ Board and Batten shall comply with the following clauses of the NZBC

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

b. Responsibility

- 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.
- For designs outside the scope of this technical specification, specific design must be undertaken by the Architect or designer.
- EnduroClad™ Board & Batten must be installed by a Licensed Building Practitioner or qualified tradesman.

c. Ground Level Clearances

The base of the EnduroClad™ Board and batten system shall be detailed in accordance with E2/AS1 and shall finish a minimum of:

- 100 mm above a paved surface, or
- 175 mm above finished unpaved surface,
- 50mm below bearer or lowest part of timber floor framing

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

d. Moisture Management

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

Any penetrations, openings, junctions, connections, windowsills, heads and jambs must incorporate suitable flashing material incorporated into them.

Where cladding penetrations are wider than the cavity batten spacing, allowance must be made for airflow between adjacent cavities by leaving a minimum gap of 10 mm between the bottom of the vertical cavity batten and the flashing to the opening.

e. Wind Loading

EnduroClad™ is suitable for use in NZ 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. Interstory 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).

11. Health and Safety

When cutting or machining EnduroClad™ suitable eye protection and a P1 or P2 replaceable filter or disposable respirator should be worn.

12. Storage and Handling

- EnduroClad™ must be unwrapped of its delivery covering and stored in a dry and well ventilated environment.
- Enduroclad™ 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.
- If pre-primed or painted, Enduroclad™ 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 boards sticking to each other while being stored.
- When lifting or transporting sheets on site they must be carried on their edge to prevent pressure being applied to the factory tongue and groove join
- Safety glasses must be worn when cutting EnduroClad™ 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.

*Note: The factory applied primer, or first topcoat is likely to be scratched during transportation or site handling. This will be remedied by the additional topcoats applied on site.

13. 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 (NZS3602)

b. Construction

- Studs must not exceed 600mm centres.
- Nogs must be provided at:
 - maximum 800mm centres where cover battens are to be fixed only over studs.
 - maximum 600 centres where cover battens will be fixed both over studs and between studs.
- On internal corners double studs are required.
- On external corners additional packing may be needed
- All Enduroclad edges must be supported by framing.

c. Dimension

Studs must be a minimum of 45mm wide to ensure adequate fixing for board edges and cover battens.

14. Cavity Construction

- Cavity battens shall be fixed vertically to each stud over the wall underlay by the cladding fixings.
 - If studs are at 600mm, care must be taken to ensure building paper (when used) does not billow into the cavity. One option specified in the Acceptable Solution E2/AS1 is to fix cavity battens midway between the studs at 300mm centers. Fig 2a reflects this option. Other means of achieving this which don't require these additional battens are:
 - 75mm galvanised mesh or wire galvanised in accordance with AS/NZS 4534
 - Polypropylene tape or galvanised wire at 300mm centres fixed horizontally and drawn taut.
 - If studs are at 400mm centres cavity battens may be fixed onto studs only.
- A horizontal batten shall be fixed to the top plate to prevent damp air from getting into the roof space.
- Horizontal battens (cavity spacers) used to support the bottom sheet edge or to provide intermediate support above window openings or to intermediate cover battens (i.e., cover battens not fixed over studs) etc. must be fixed with a 5° 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,
- Cavity Battens shall be a minimum H3.1 LOSP treated in accordance with NZS 3640.
- Cavity Battens if timber, shall comply with B2/AS1,
- EnduroClad™ Board must not be fixed to cavity battens where there is no framing behind them.

15. 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. 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.

16. 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.

17. EnduroClad™ Joins

a. Vertical Join.

Shall be made only over studs and have an expansion gap of 4mm (nominal) and have cover battens fixed over them – refer to Figure 9.

b. Horizontal Join

Shall be made only over supports, and incorporate a 10 mm expansion gap, and be fitted with a flashing as shown in Figure 18.

18. Cover Battens

The Enduroclad Board and Batten System requires that a cover batten is fixed over each join. Because it is a requirement for board joins to be made over a stud then there is adequate fixing.

Where additional decorative cover battens are required, consideration needs to be given when framing is being designed and installed to provide adequate fixing for them. This adequate fixing requires nogs to be at minimum 600 centres with either addition cavity battens or cavity spacers (sloped at 5° with min 50 mm gap to framing at each end) located to suit.

19. Cut Ends

The treatment to the EnduroClad™ boards and the Fascia product 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 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 feel greasy to touch. Once flash off has occurred the cut area must be reprimed and for best practice should have one coat of the top coat applied.

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, to achieve a minimum structural durability level of 15 years. EnduroClad™ meets this requirement when installed in accordance with the instructions contained herein and when coated with paint 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 EnduroClad™ and will be aesthetic only.

Coatings must be regularly maintained (refer to S23), and any sign of degradation should be repaired immediately as per the coating manufacturers recommendations.

22. Coatings

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

Triclad Enduroclad™ Board and Batten system must be finished with a three coat acrylic finishing system.

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.

Triclad Enduroclad™ Board and Batten system is not suitable for a penetrating stain finish. If a stain look is desired an acrylic timber coating system such as Timbakote should be considered.

23. Coating Application

All boards must have their final coating on them within eight weeks of fixing.

a. For Un-primed Board and Batten

On-site coating will be required to achieve the 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.

- 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 Metalex Clear prior to priming and painting.
- The primer coat and first finishing coat must be applied before fixing.
- 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 Board and Battens

Factory primed EnduroClad™ board and batten is ready for the final paint coating systems. To ensure best performance the following painting guidelines are required for finishing pre-primed EnduroClad™ board and batten:

- 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.
- Treat any cut ends prior to installation with Metalex Clear and re-prime to ensure a complete seal.
- 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 facechecking. If/once this has occurred a further finishing coat should be applied.
- Refer maintenance section 24.

c. For Factory Finishing Coated Board and Battens

Factory finishing coated board and batten has already had one coat of the finishing coat applied and is ready for installation and the final finishing coats to be applied on site.

- Ensure that finishing coated board is free from any dirt, oil, or any other surface contaminants. Remove dirt thoroughly by wiping clean before applying final finishing coats.
- Treat any cut ends prior to installation with Enseal Clear or Metalex and re-prime and apply first finishing 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 facechecking. If/once this has occurred a further finishing coat should be applied.
- Refer maintenance section 24.

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

24. Maintenance

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, especially on the North and western faces.

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 rasp with a wire brush to recreate bandsawn effect, spot prime and apply two coats of exterior paint as required.
 - Check all Enduroclad, battens, junctions, flashings, mouldings and replace or remediate parts as required to maintain weather tightness of the cladding system.
 - Recoat the Enduroclad with exterior paint as required by the coating manufacturer's recommendations (typically between 5 to 10 years).
- Ensure minimum ground clearances as set out in 10.c. are maintained at all times during the life of the cladding.

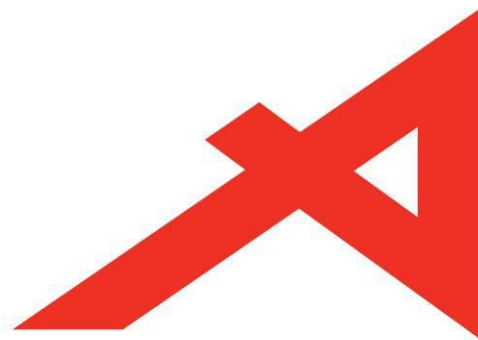
25. Environmental

a. Plywood

The plywood used to manufacture Triclad Enduroclad™ 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 NZ.
- 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.



BRANZ Appraised
Appraisal No.1063 [2019]

26. Drawing Directory

Cavity Fixed

Fig 1: Cavity – Nailing set out

Fig 2a: Cavity – Framing and Batten setout 600mm Stud Centres

Fig 2b: Cavity – Framing and Batten setout 400mm Stud Centres

Fig 3: Cavity – Base Detail – Concrete floor

Fig 4: Cavity – Base Detail – Timber Floor

Fig 5: Cavity – External Boxed Corner detail

Fig 6: Cavity – Internal Corner detail

Fig 7: Cavity – Soffit detail

Fig 8: Cavity – Soffit/Beam detail

Fig 9: Cavity – Board Joint detail

Fig 10: Cavity – Penetration detail

Fig 11: Cavity – Window Head Flashing detail

Fig 12: Cavity – Window Jamb Flashing detail

Fig 13: Cavity – Window Sill Flashing detail

Fig 14: Cavity – Meterbox Head Flashing detail

Fig 15: Cavity – Meterbox Jamb Flashing detail

Fig 16: Cavity – Meterbox Sill Flashing detail

Fig 17: Cavity – Roof/Wall detail

Fig 18: Cavity – Horizontal Join detail

Fig 18a Cavity – Inter – Story Detail – No Join

Direct Fixed

Fig 19: Direct Fix – Nailing set out

Fig 20: Direct Fix – Framing and Batten and sheet setout 600mm Stud Centres

Fig 21: Direct Fix – Base Detail – Concrete floor

Fig 22: Direct Fix – Base Detail – Timber Floor

Fig 23: Direct Fix – External Corner-Boxed detail

Fig 24: Direct Fix – Internal Corner detail

Fig 25: Direct Fix – Soffit detail

Fig 26: Direct Fix – Soffit/Beam detail

Fig 27: Direct Fix – Board Joint detail

Fig 28: Direct Fix – Penetration detail

Fig 29: Direct Fix – Window Head detail

Fig 30: Direct Fix – Window Jamb detail

Fig 31: Direct Fix – Window Sill detail

Fig 32: Direct Fix – Meterbox Head detail

Fig 33: Direct Fix – Meterbox Jamb detail

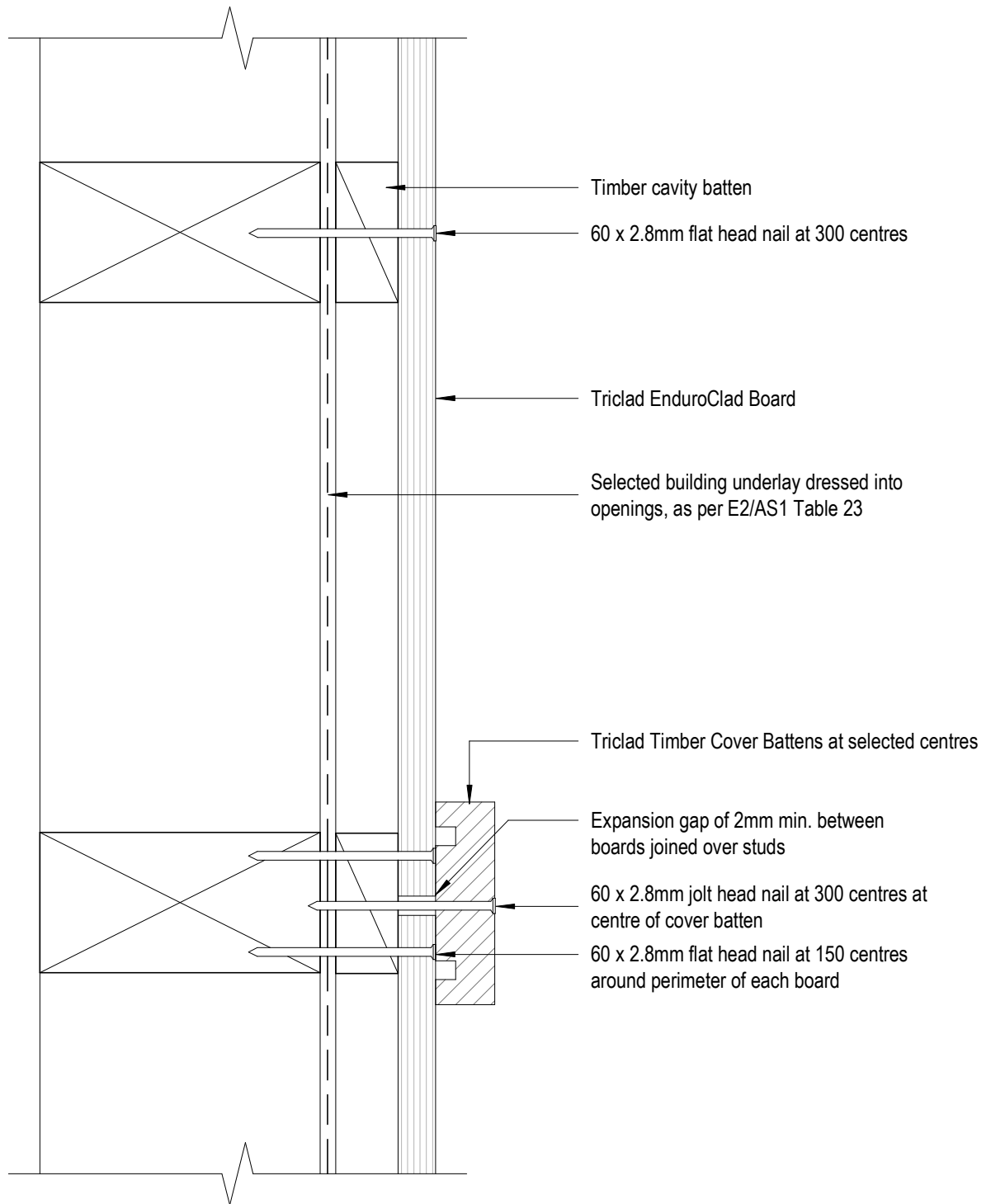
Fig 34: Direct Fix – Meterbox Sill detail

Fig 35: Direct Fix – Roof/Wall detail

Fig 36: Direct Fix – Horizontal Join detail

Fig 36a Direct Fix- Inter – Story Detail – No Join

Triclad EnduroClad



TRICLAD
CLADDING SYSTEMS

8 Quail Place
Hamilton Lake
Hamilton
New Zealand

Cavity Fix Nailing Setout Detail

T. 0800 874 2523

E. sales@triclad.co.nz

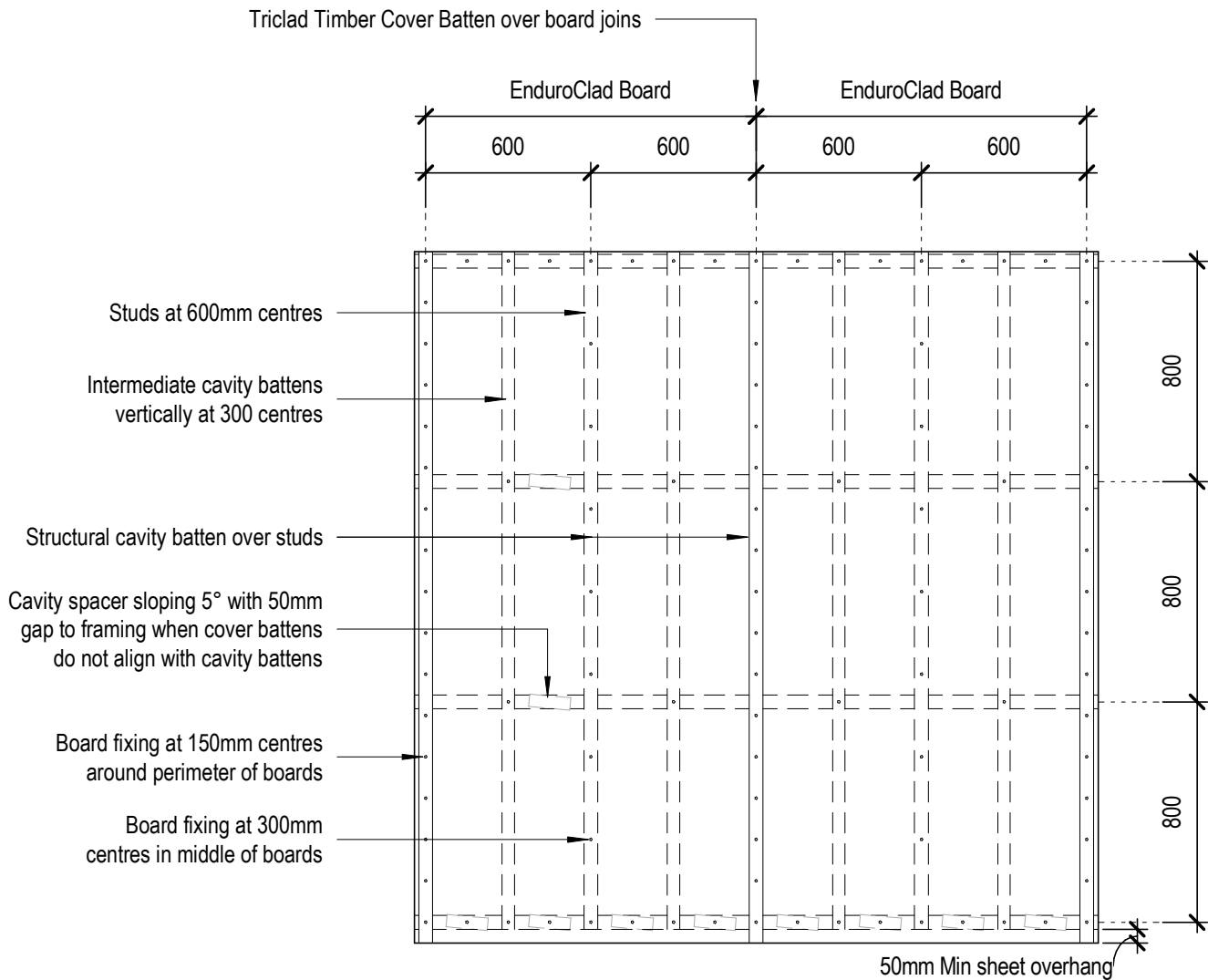
www.triclad.co.nz

1 : 2 @ A4
Scale

Dec 2019
Date

Fig 1
Dwg

Triclad EnduroClad



NOTE:

Where cover battens do not sit over a stud it is recommended that additional noggling is used to provide additional fixing for the decorative cover battens.



TRICLAD
CLADDING SYSTEMS

8 Quail Place
Hamilton Lake
Hamilton
New Zealand

**Cavity Fix
Framing/Batten Setout-600mm**

T. 0800 874 2523

E. sales@triclad.co.nz

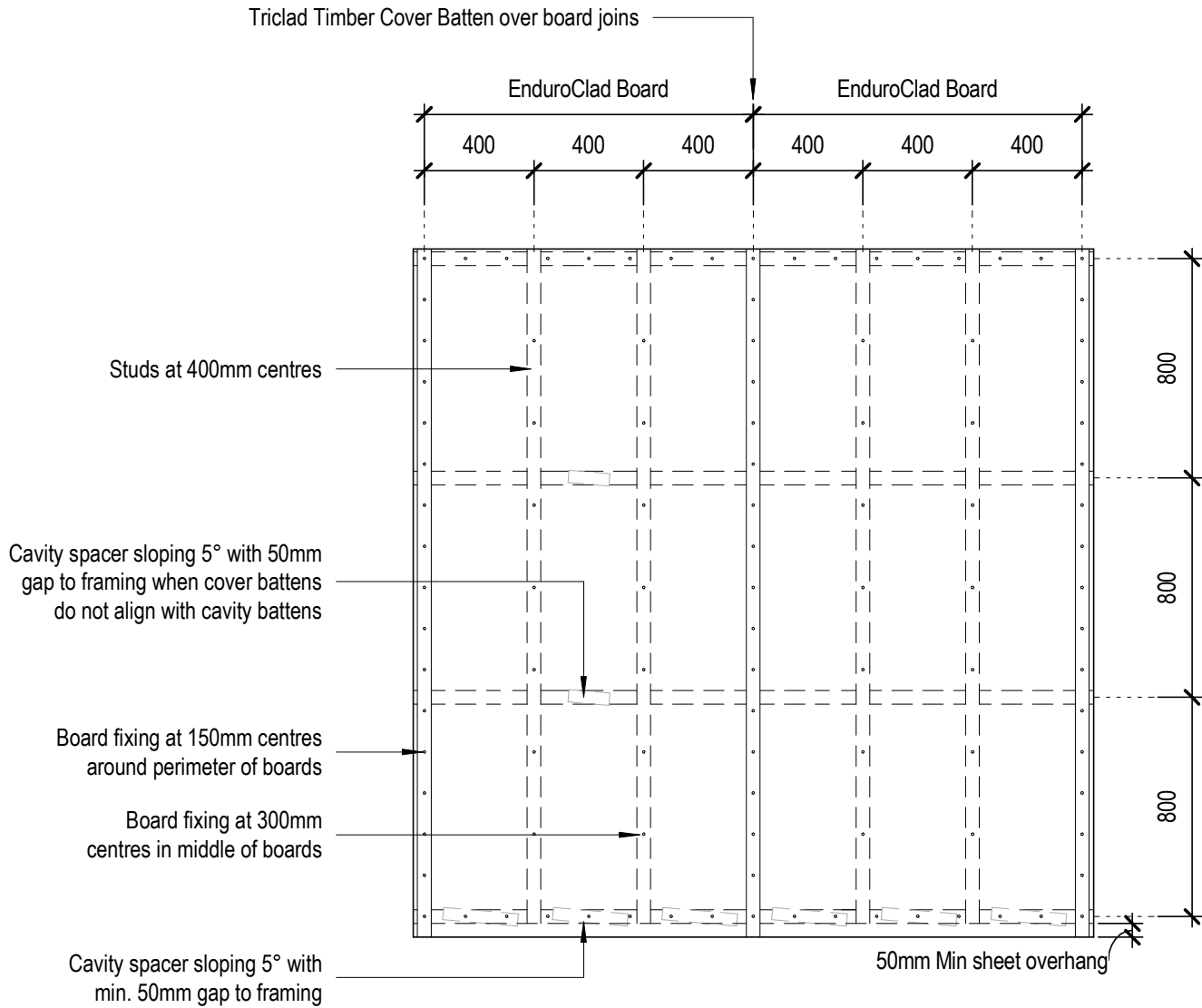
www.triclad.co.nz

1 : 25 @ A4
Scale

Dec 2019
Date

Fig 2a
Dwg

Triclad EnduroClad



NOTE:

Where cover battens do not sit over a stud it is recommended that additional noggings are used to provide additional fixing for the decorative cover battens.



TRICLAD
CLADDING SYSTEMS

8 Quail Place
Hamilton Lake
Hamilton
New Zealand

**Cavity Fix
Framing/Batten Setout-400mm**

T. 0800 874 2523

E. sales@triclad.co.nz

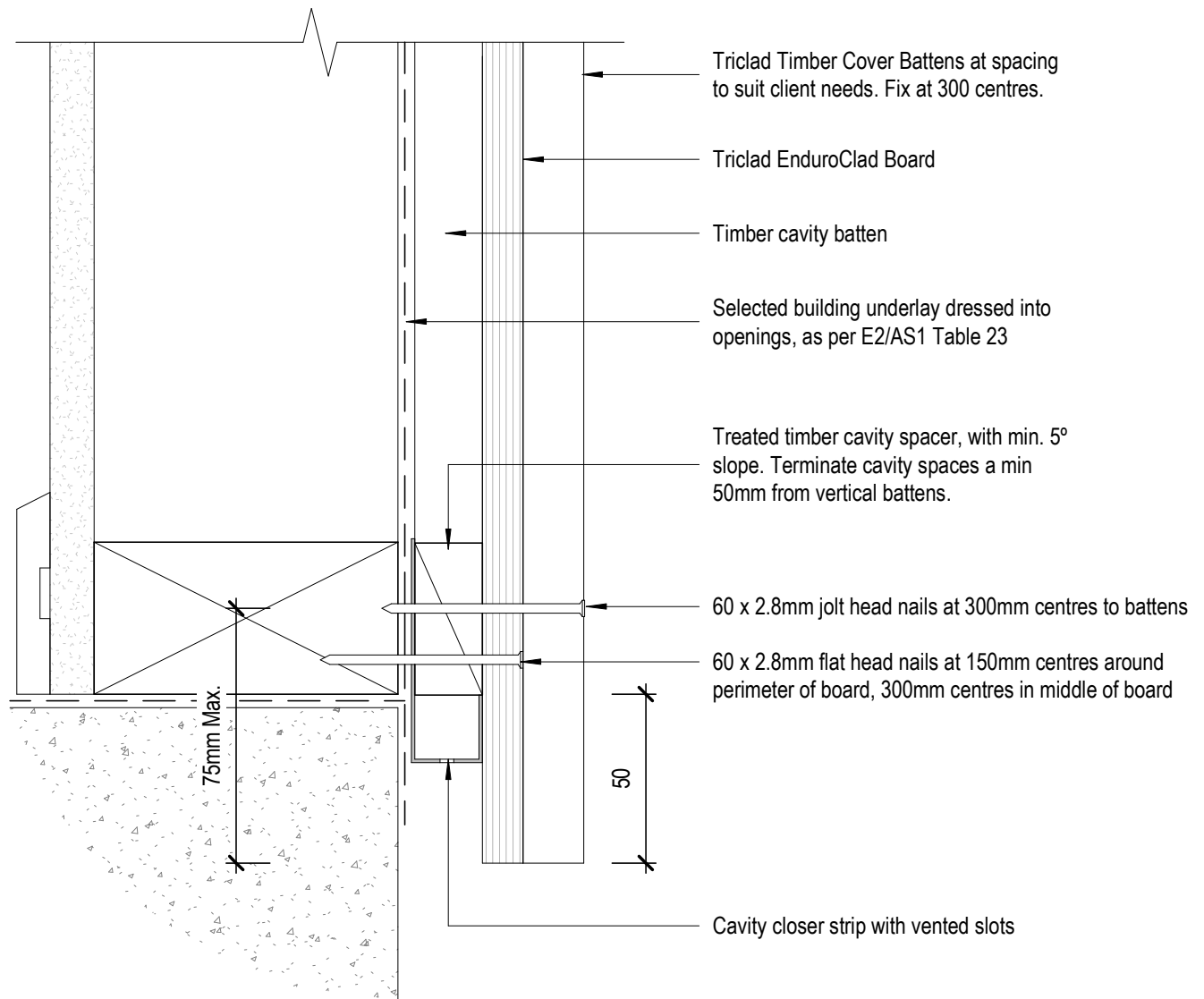
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1 : 25 @ A4
Scale

Dec 2019
Date

Fig 2b
Dwg

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



8 Quail Place
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Cavity Fix Base Detail-Concrete Floor

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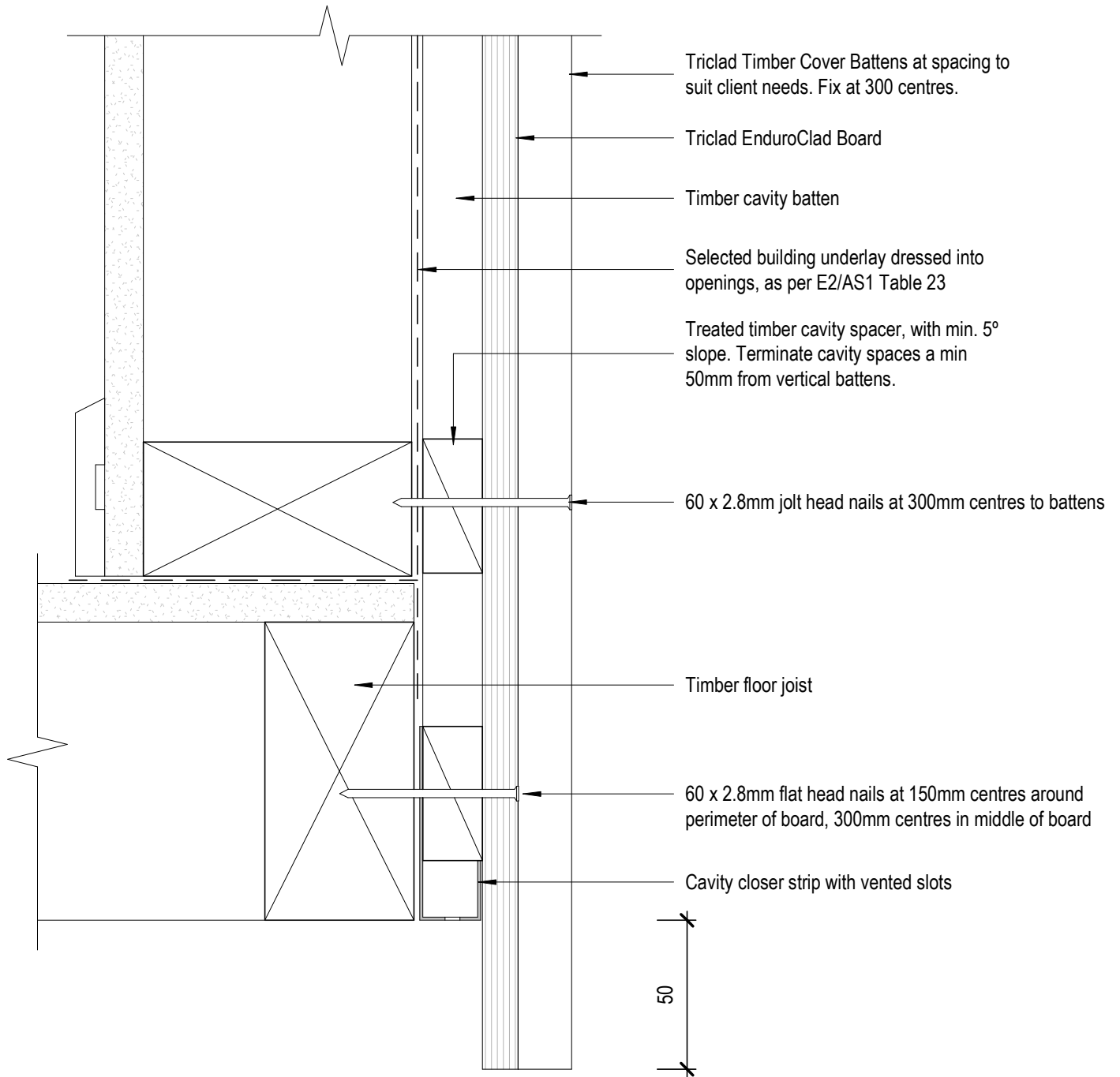
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 3
Dwg

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8 Quail Place
Hamilton Lake
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Cavity Fix Base Detail-Timber Floor

T. 0800 874 2523

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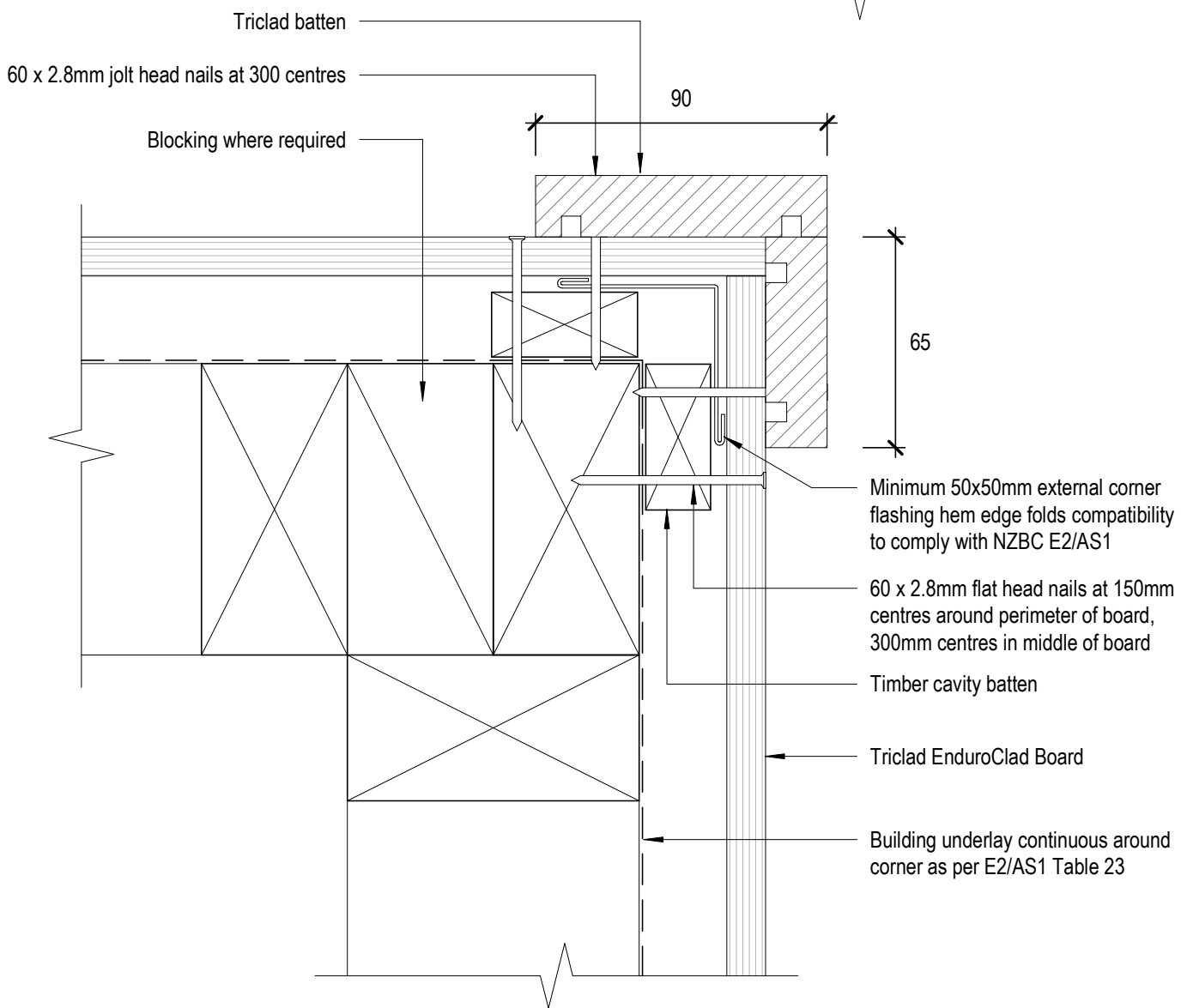
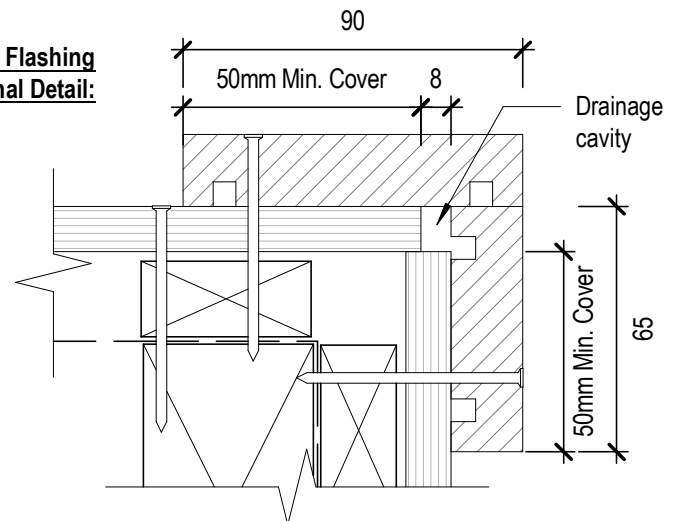
1 : 2 @ A4
Scale

Dec 2019
Date

Fig 4
Dwg

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Non-Corner Flashing Optional Detail:



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Cavity Fix External Corner-Boxed

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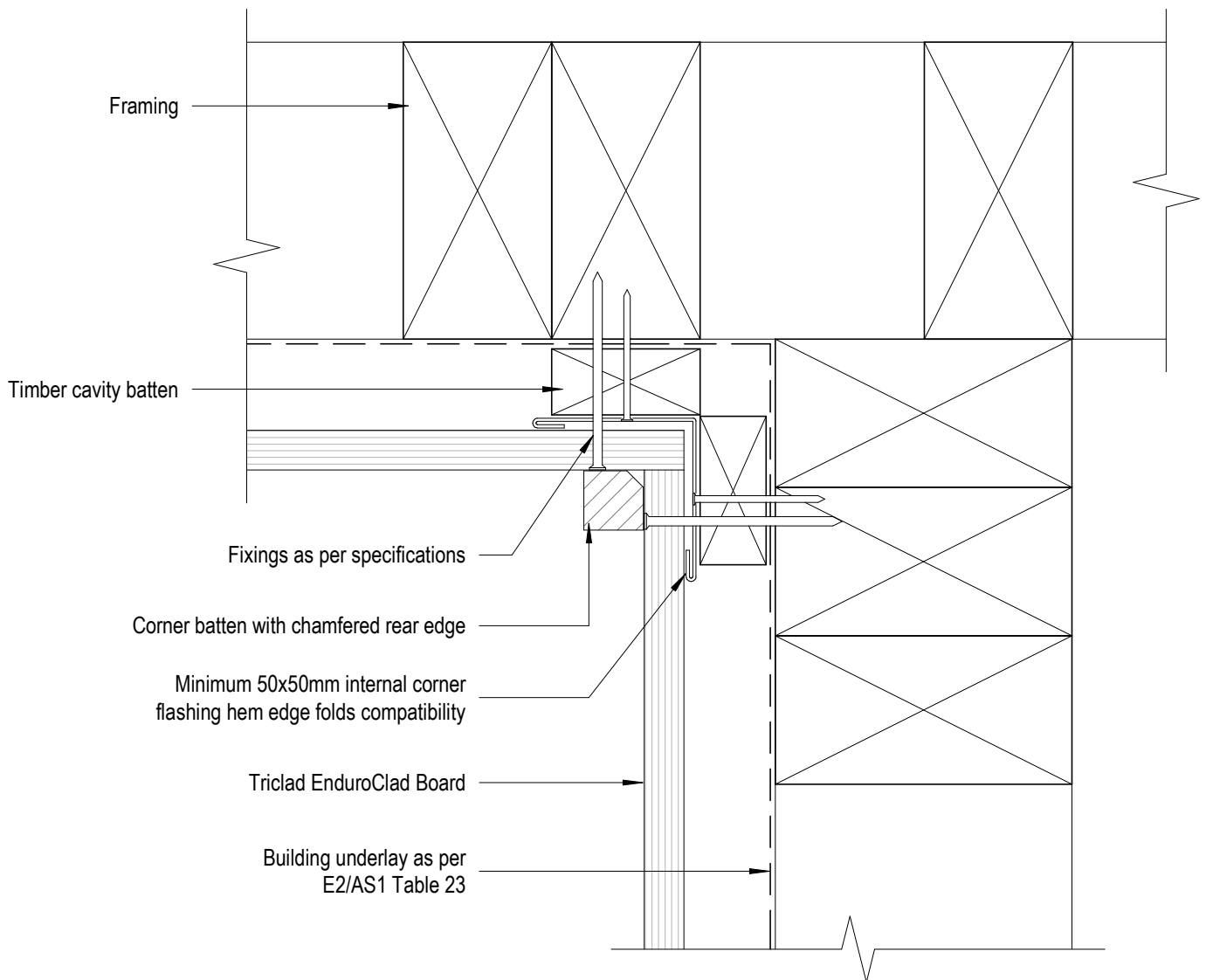
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 5
Dwg

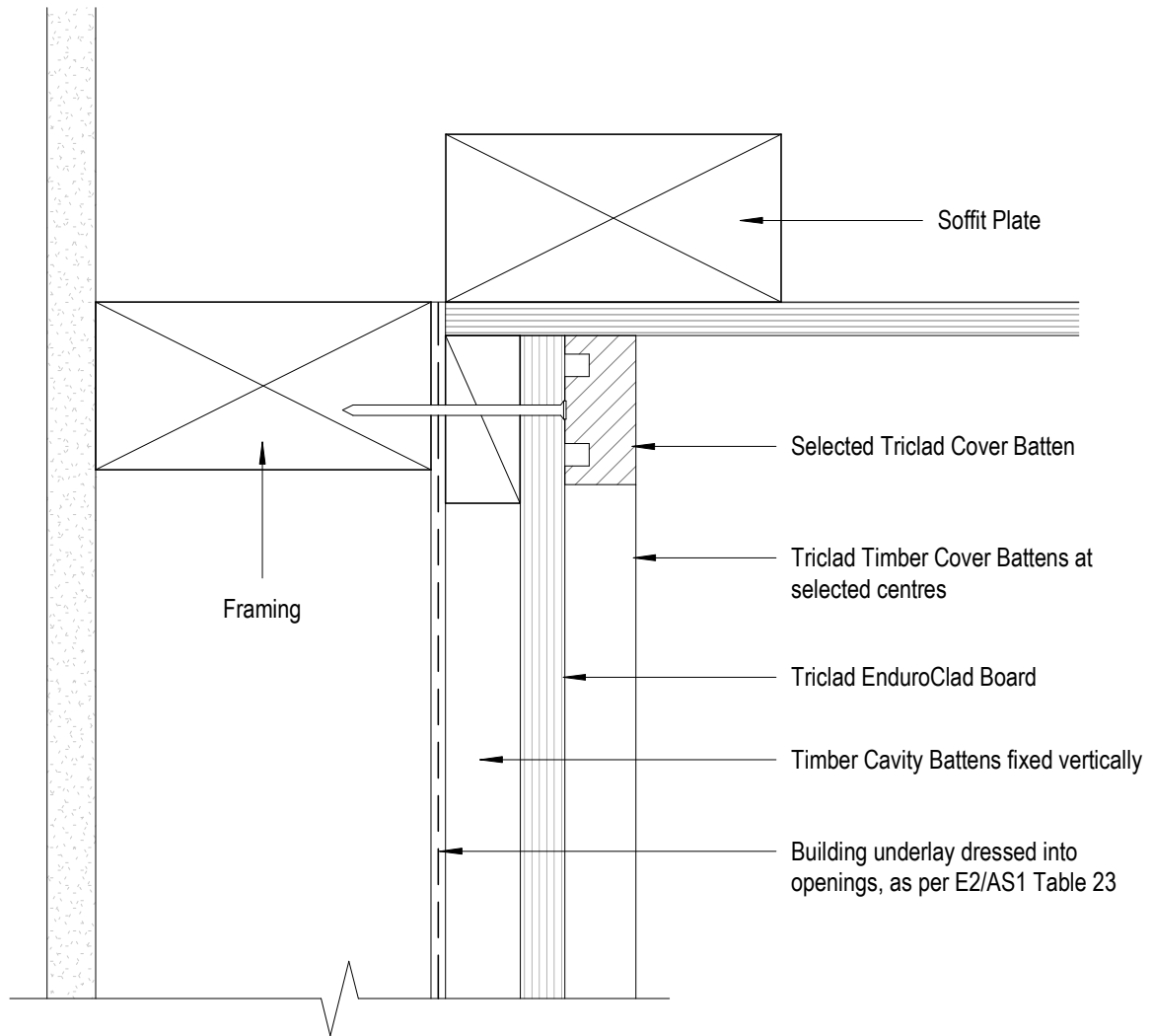


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8 Quail Place
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Cavity Fix Internal Corner

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8 Quail Place
Hamilton Lake
Hamilton
New Zealand

Cavity Fix Soffit Detail

T. 0800 874 2523

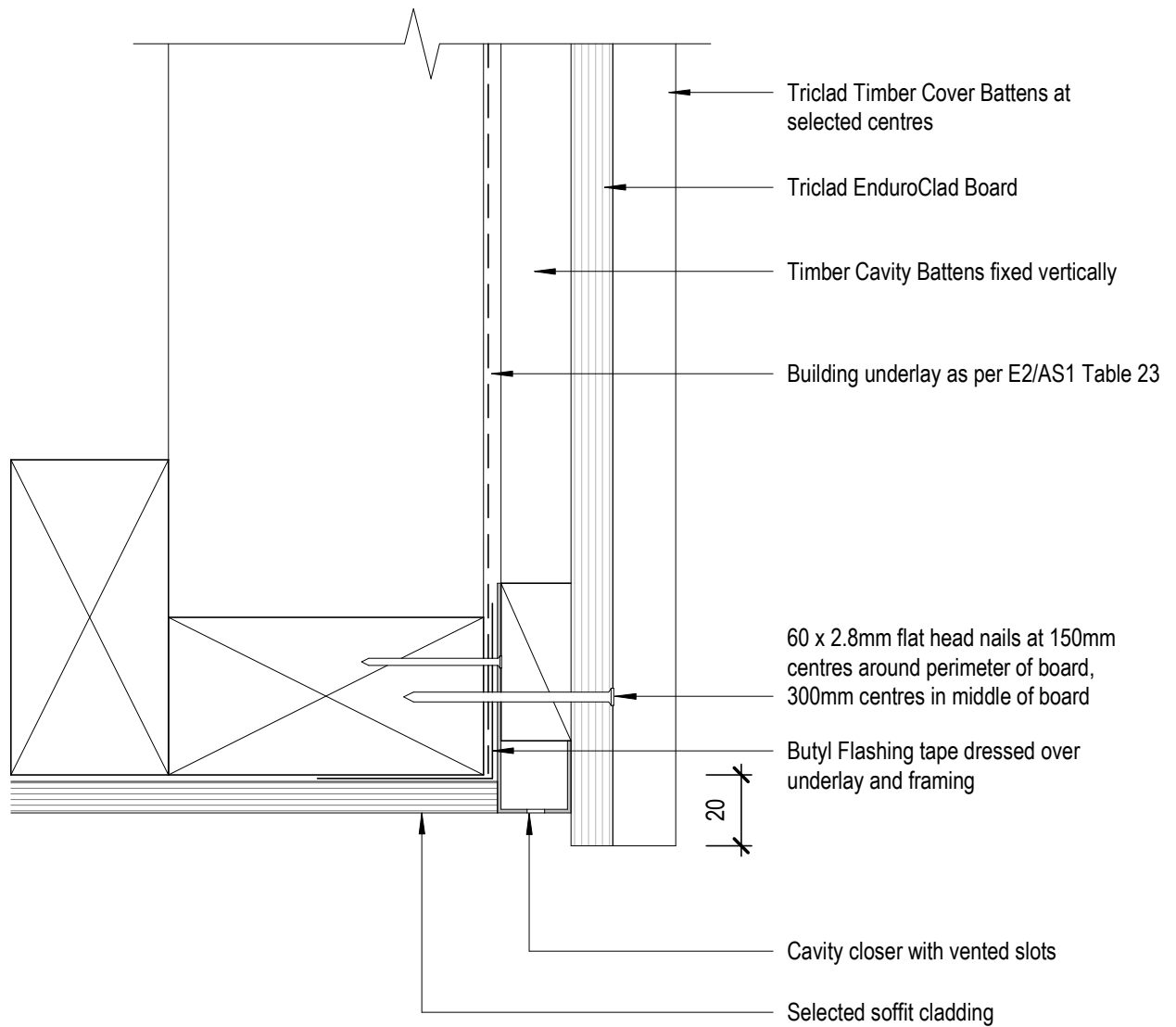
E. sales@triclad.co.nz

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1 : 2 @ A4
Scale

Dec 2019
Date

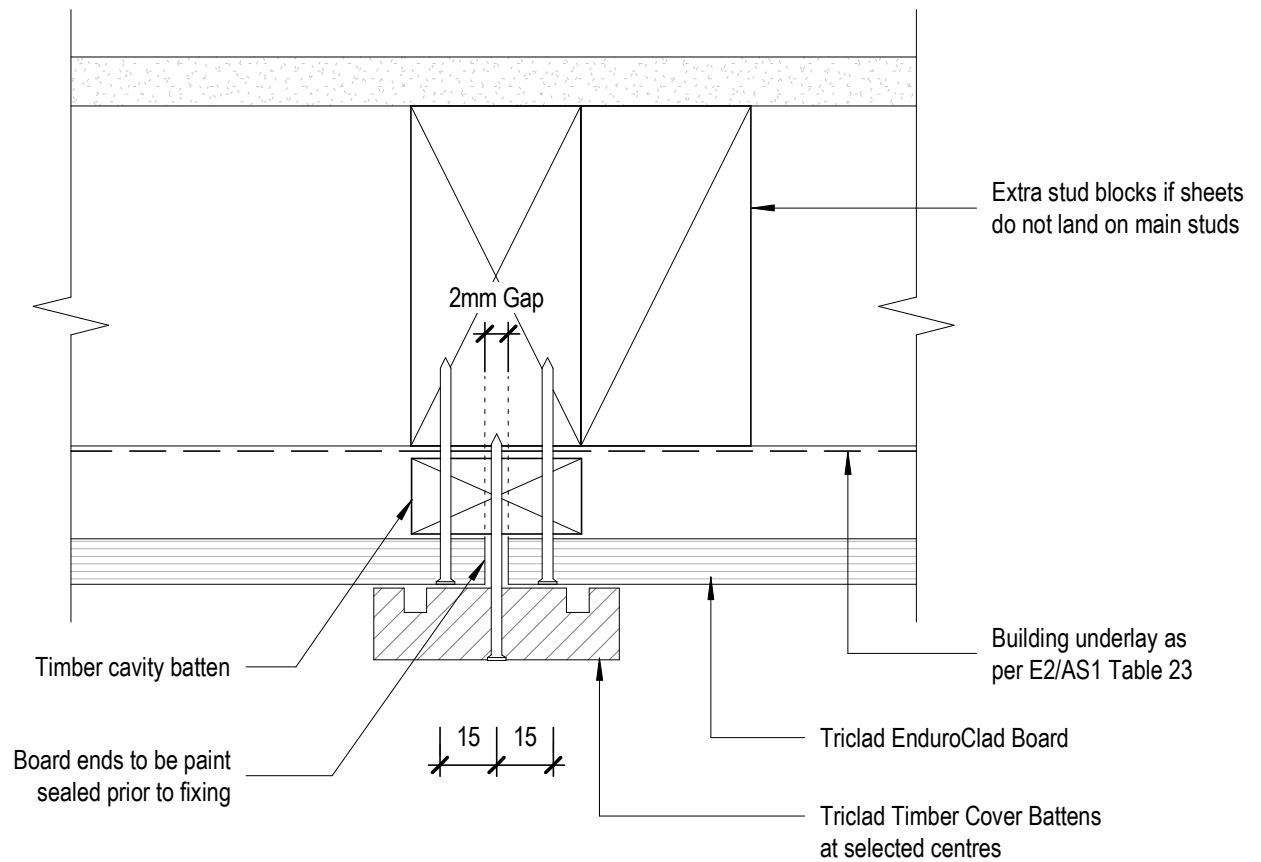
Fig 7
Dwg



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8 Quail Place
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Hamilton
New Zealand

Cavity Fix Soffit/Beam Detail

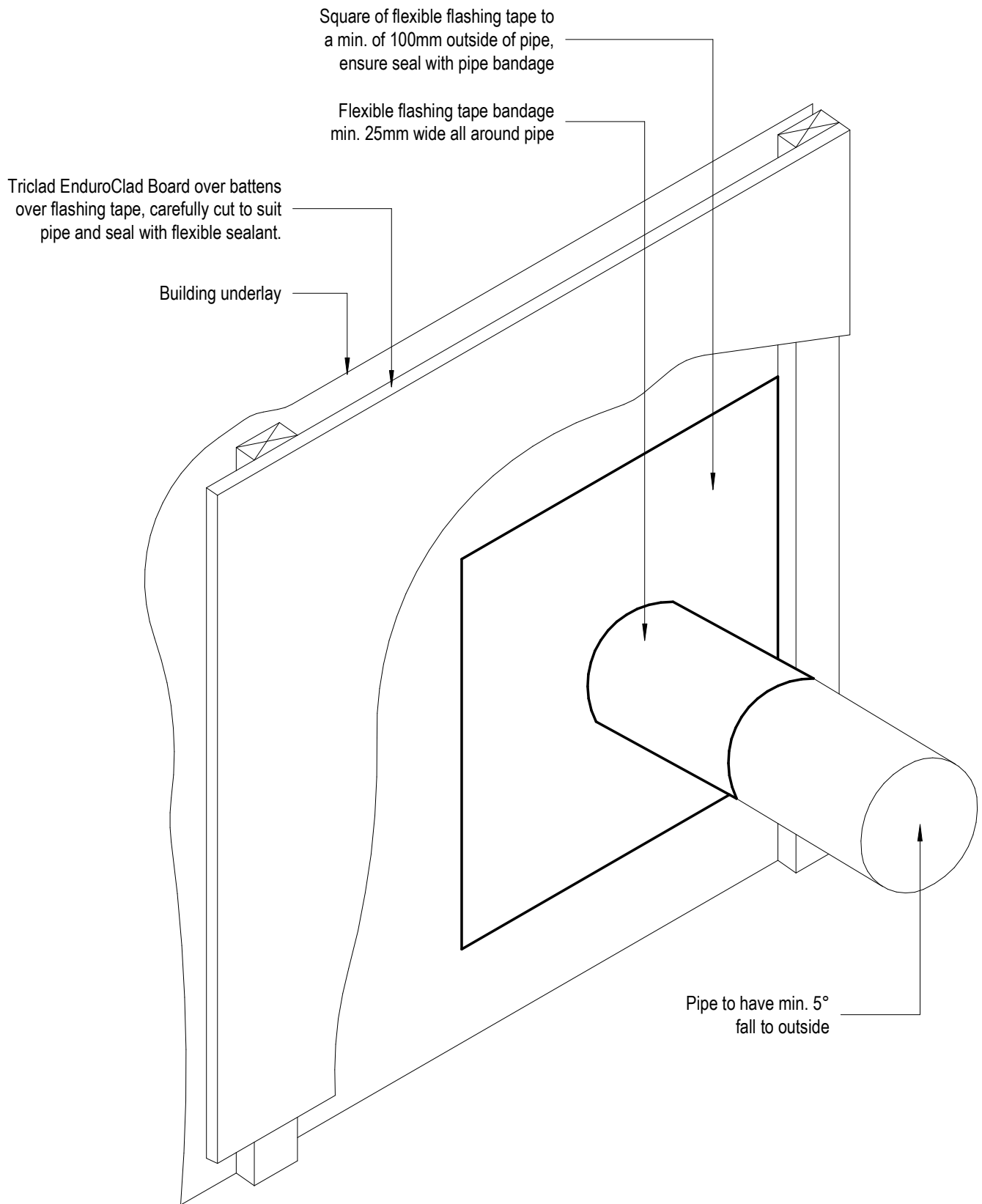


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8 Quail Place
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Cavity Fix Board Joint Detail

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8 Quail Place
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Cavity Fix Penetration Detail

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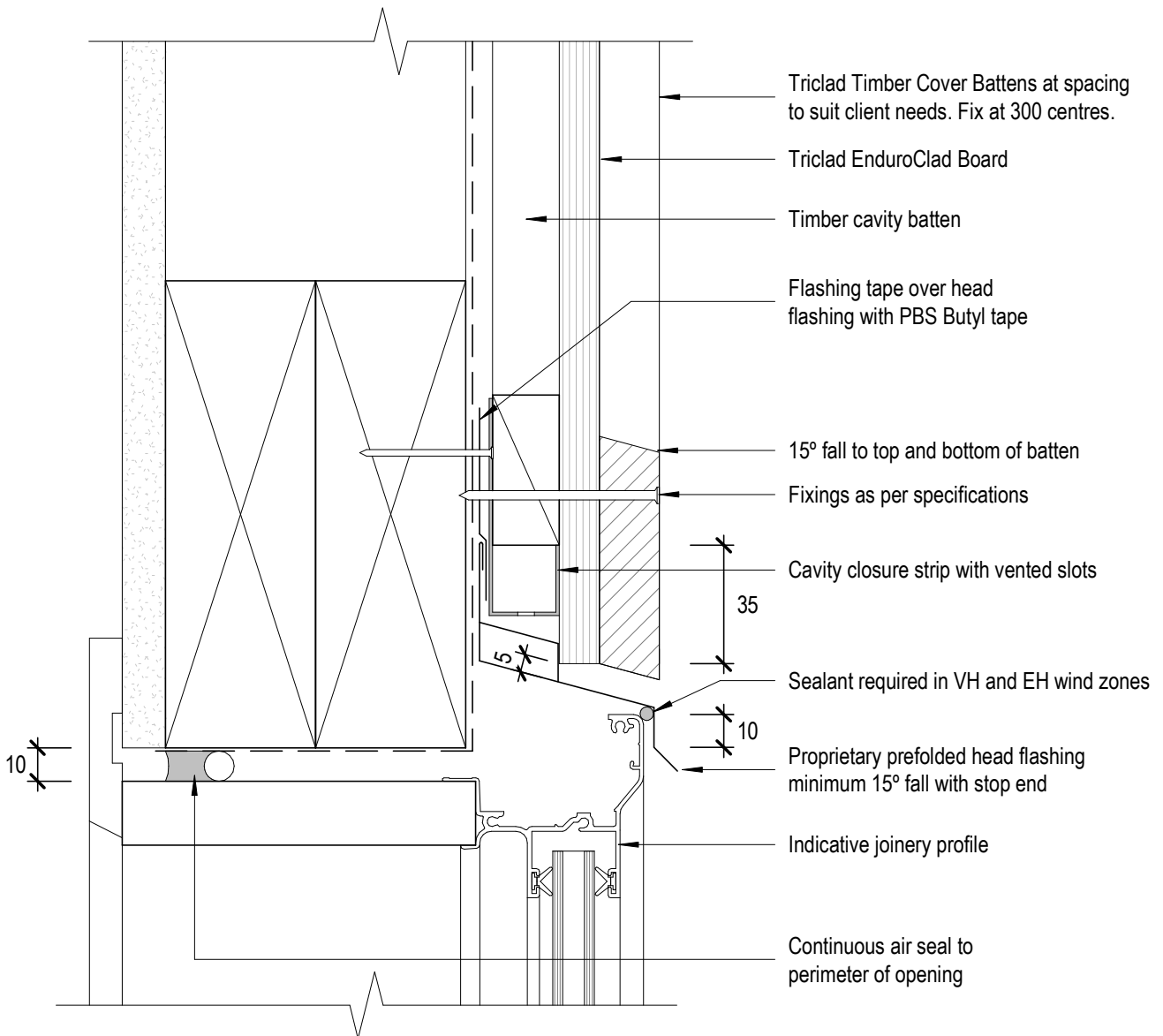
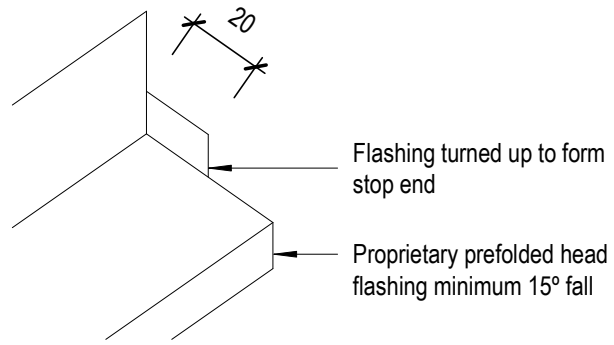
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1 : 5 @ A4
Scale

Dec 2019
Date

Fig 10
Dwg

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8 Quail Place
Hamilton Lake
Hamilton
New Zealand

Cavity Fix Window Head Detail-Aluminium

T. 0800 874 2523

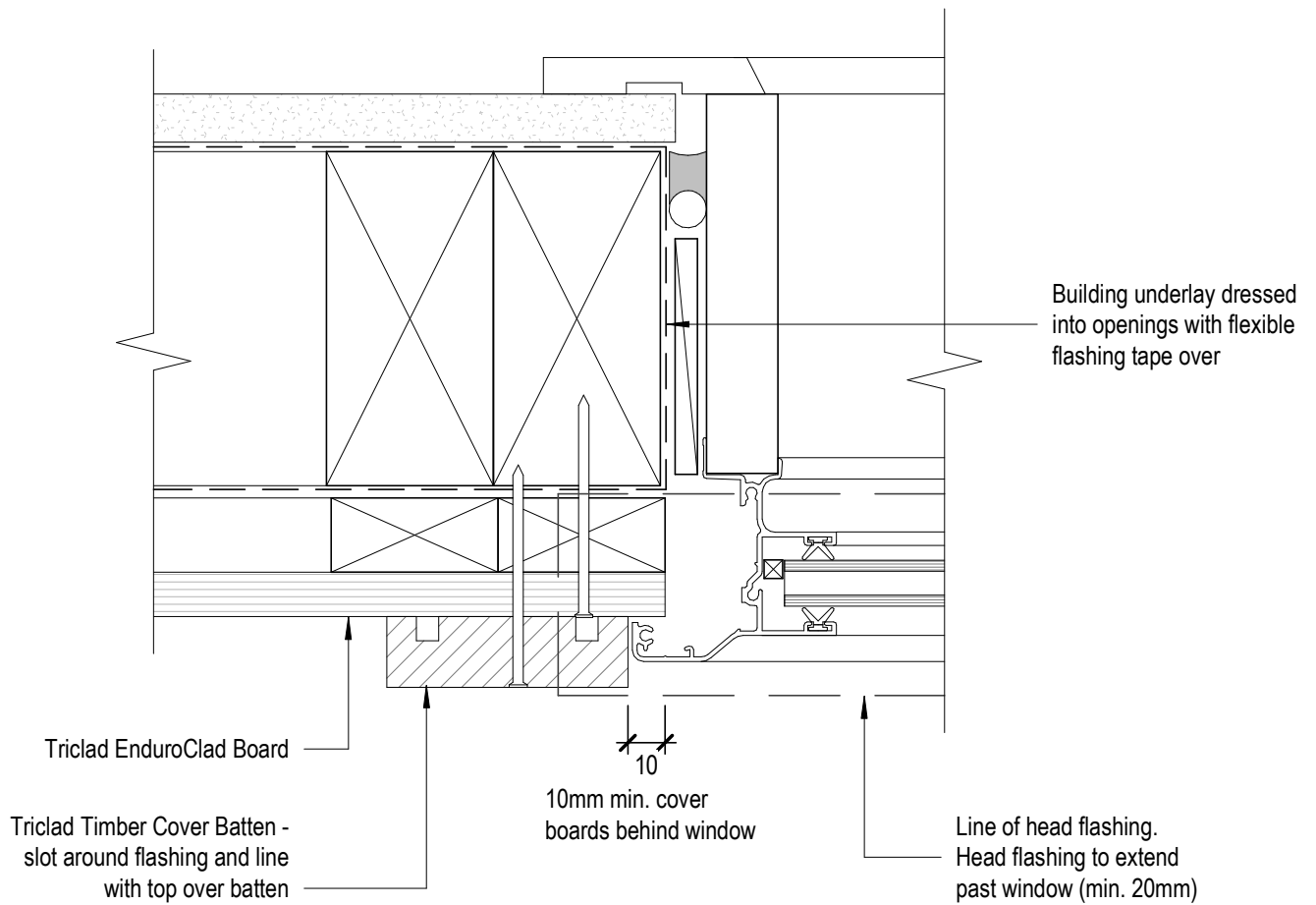
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1 : 2 @ A4
Scale

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Date

Fig 11
Dwg



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8 Quail Place
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Cavity Fix Window Jamb Detail-Aluminium

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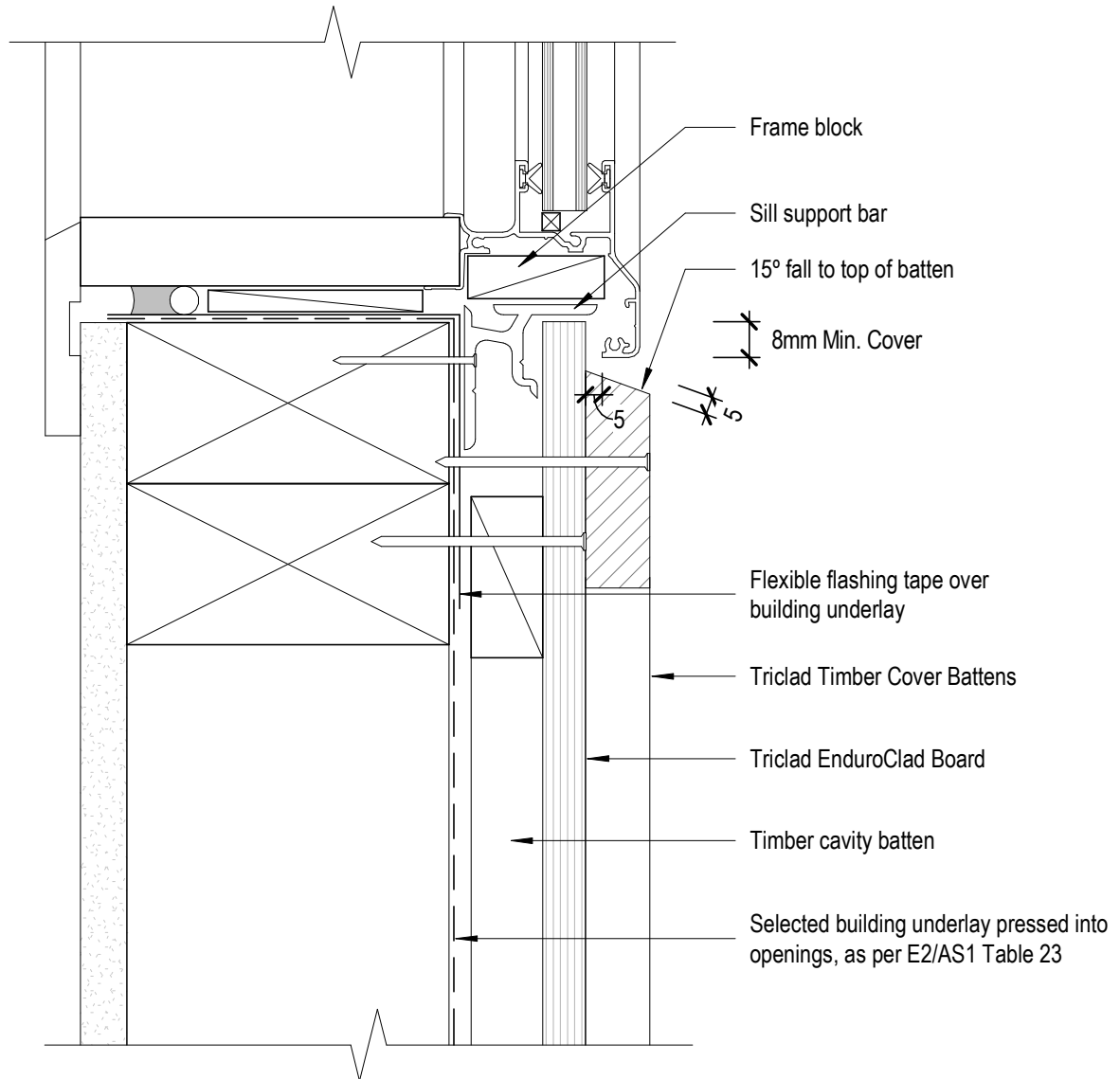
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 12
Dwg

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TRICLAD
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8 Quail Place
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Hamilton
New Zealand

Cavity Fix Window Sill Detail-Aluminium

T. 0800 874 2523

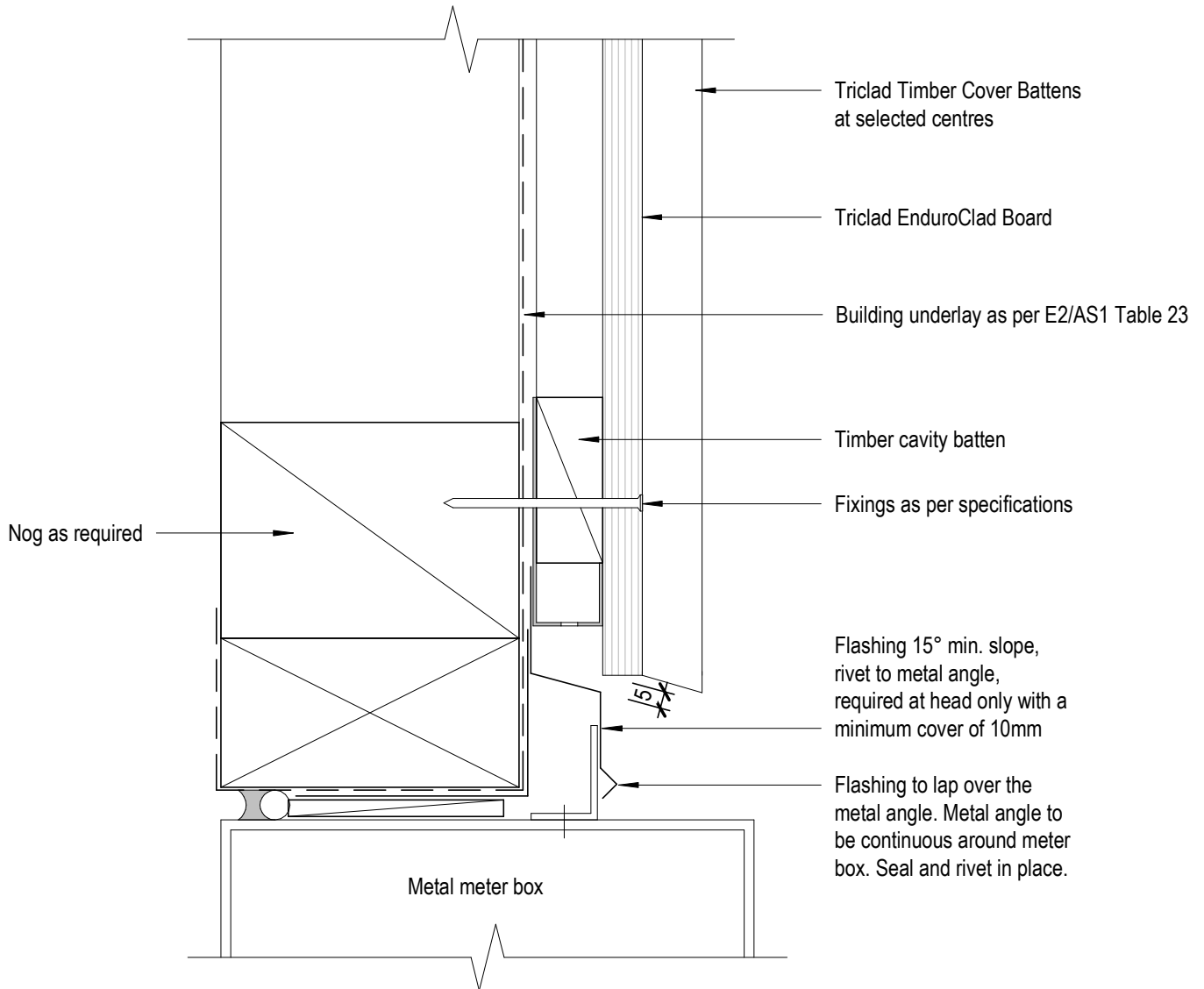
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1 : 2 @ A4
Scale

Dec 2019
Date

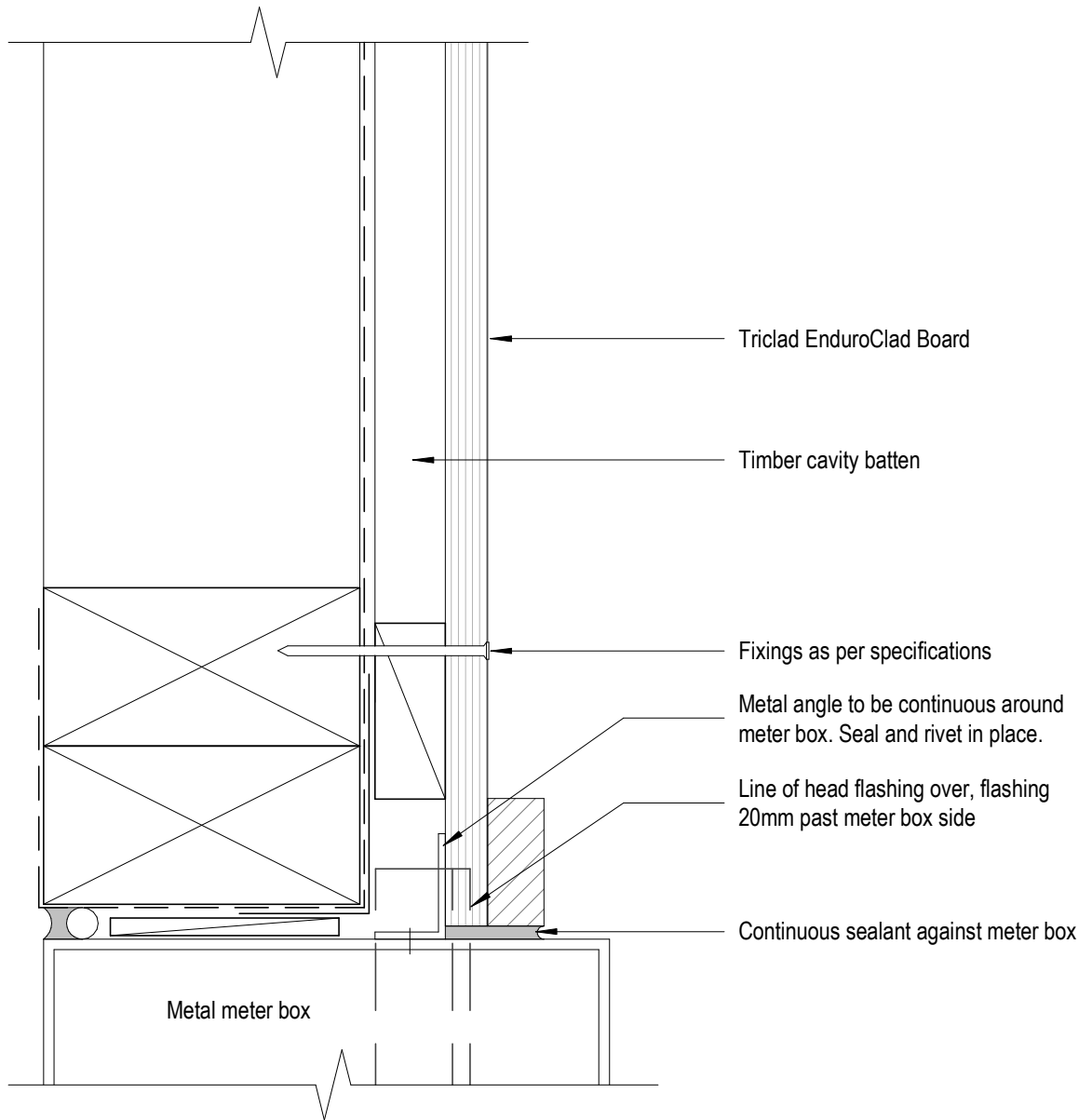
Fig 13
Dwg



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8 Quail Place
Hamilton Lake
Hamilton
New Zealand

Cavity Fix Meter Box Head

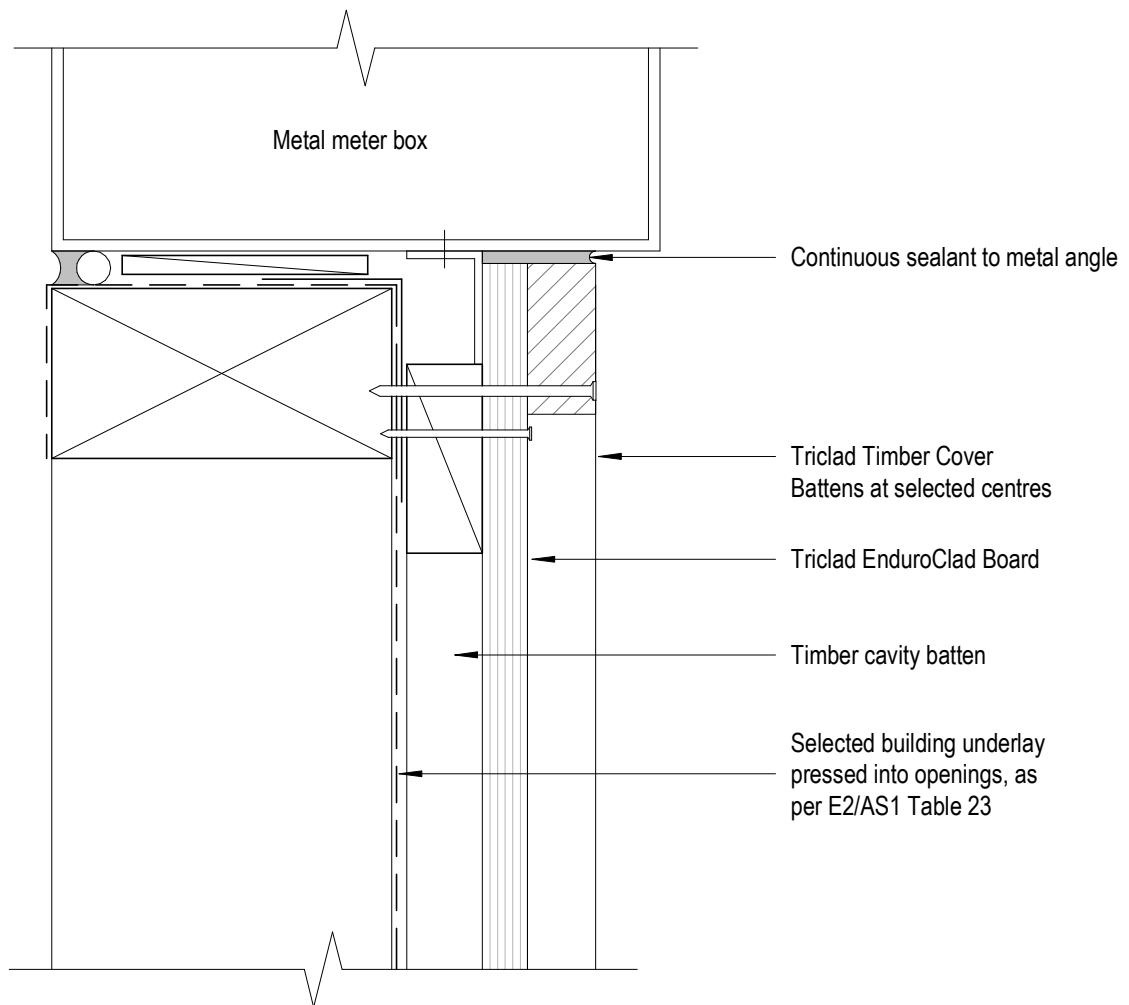


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8 Quail Place
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Hamilton
New Zealand

Cavity Fix Meter Box Jamb

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8 Quail Place
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Cavity Fix Meter Box Sill

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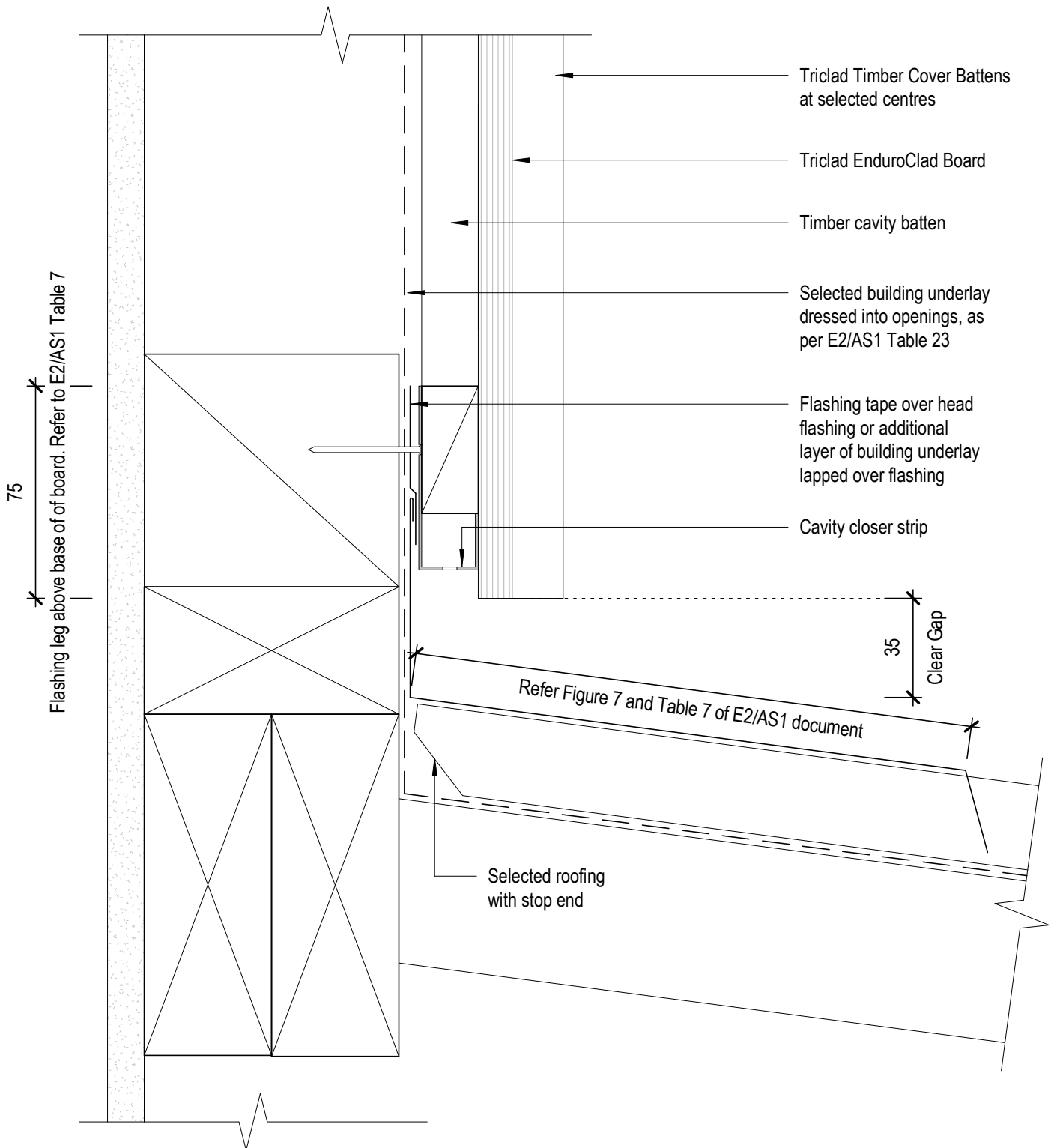
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 16
Dwg

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8 Quail Place
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Cavity Fix Roof/Wall Detail

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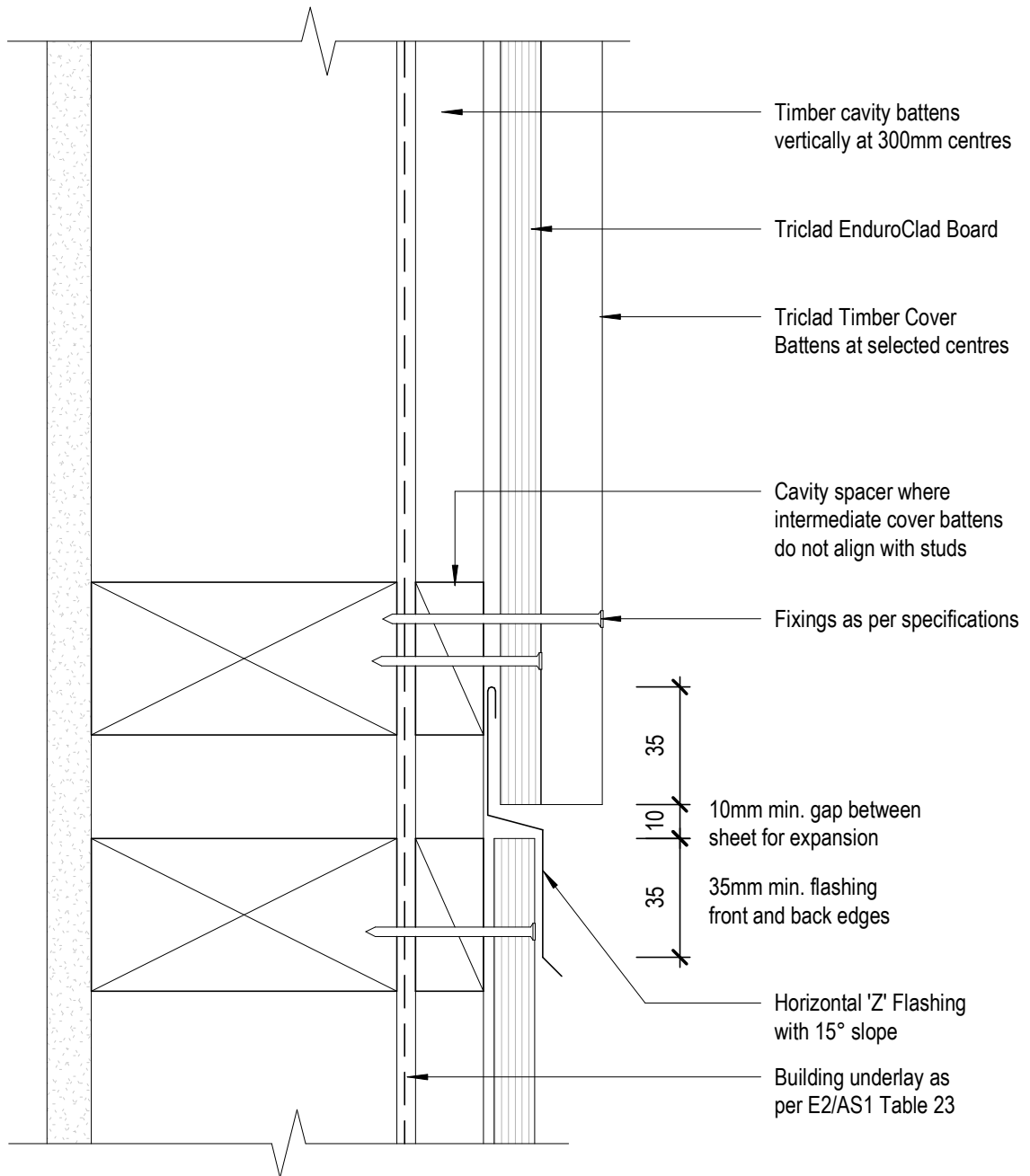
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 17
Dwg

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TRICLAD
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8 Quail Place
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Hamilton
New Zealand

Cavity Fix Horizontal Join Detail

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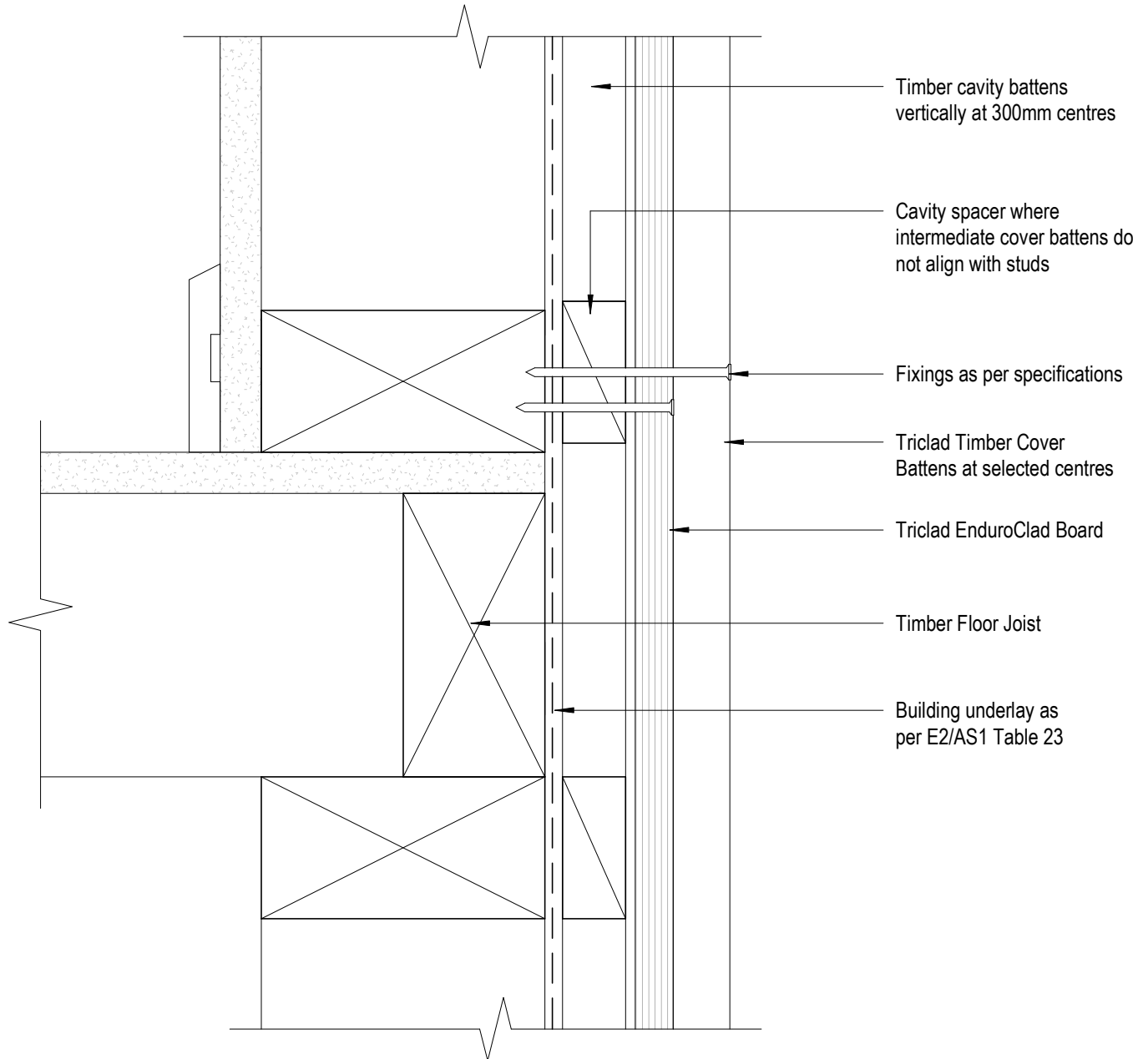
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 18
Dwg



Timber cavity battens vertically at 300mm centres

Cavity spacer where intermediate cover battens do not align with studs

Fixings as per specifications

Triclad Timber Cover Battens at selected centres

Triclad EnduroClad Board

Timber Floor Joist

Building underlay as per E2/AS1 Table 23



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Cavity Fix Inter-Story Detail - No Join

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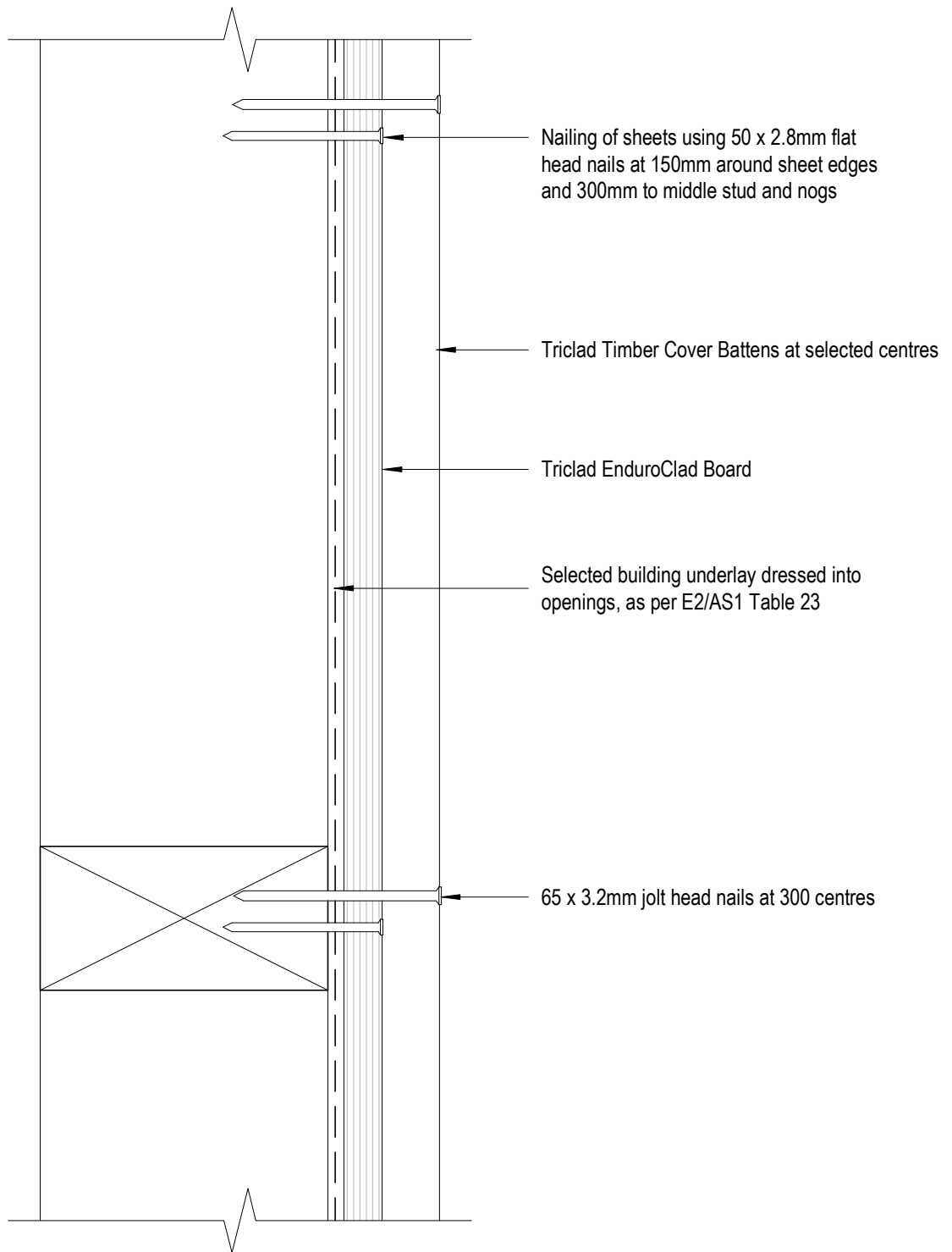
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 18a
Dwg

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TRICLAD
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8 Quail Place
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Direct Fix Nailing Setout

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E. sales@triclad.co.nz

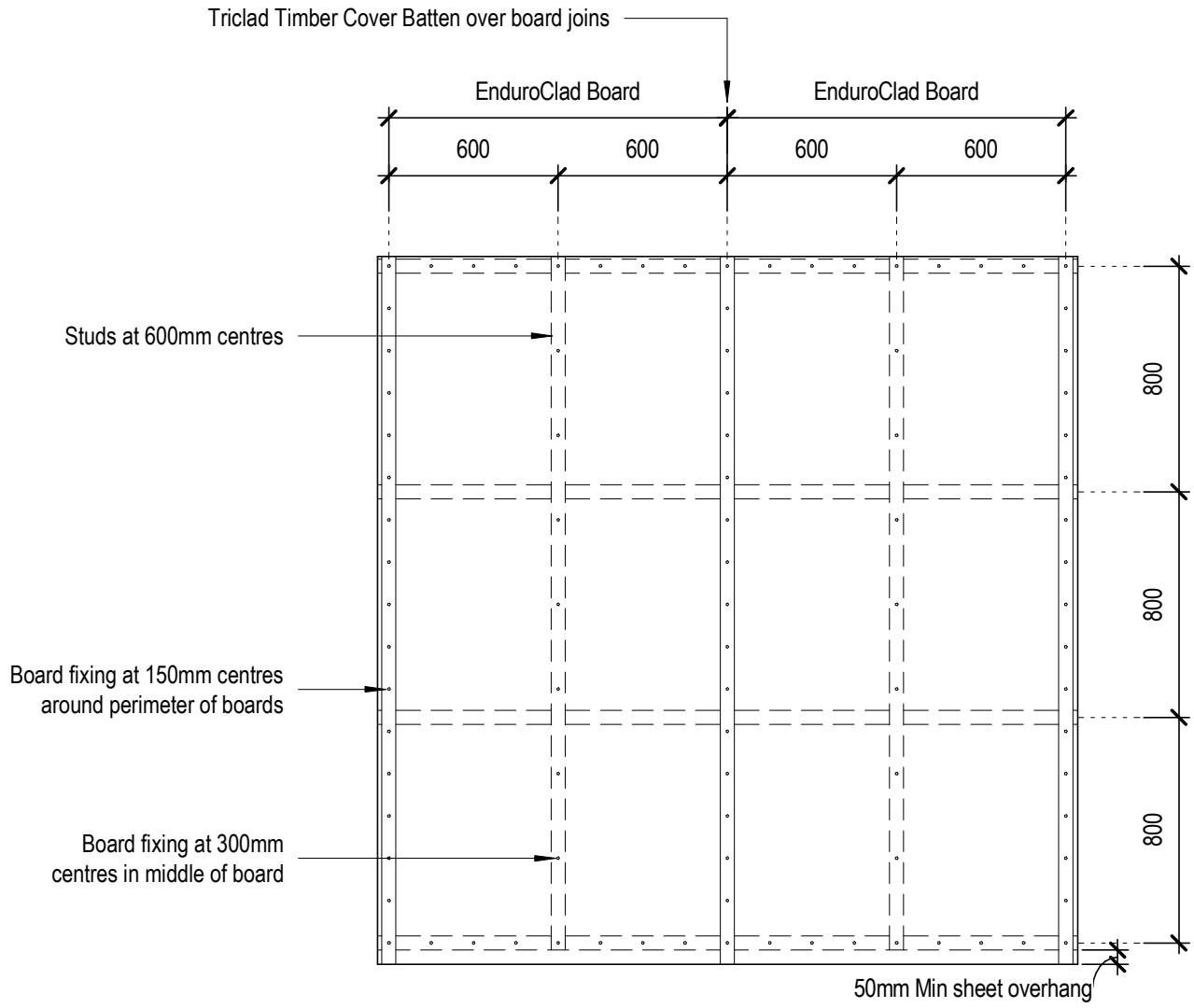
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 19
Dwg

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NOTE:

Where cover battens do not sit over a stud it is recommended that additional noggings are used to provide additional fixing for the decorative cover battens.



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8 Quail Place
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Direct Fix Framing/Batten Setout

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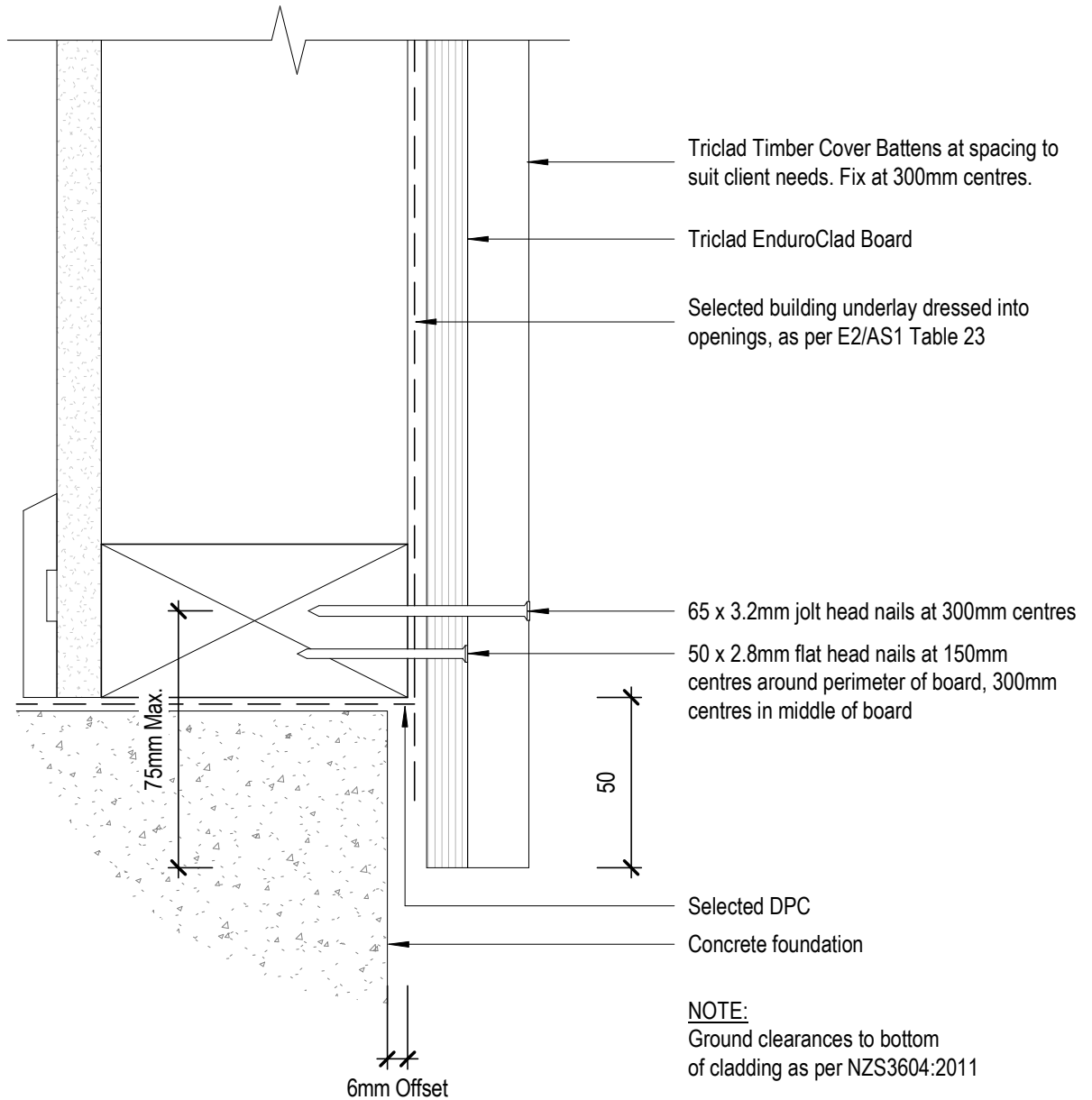
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1 : 25 @ A4
Scale

Dec 2019
Date

Fig 20
Dwg

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8 Quail Place
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Direct Fix Base Detail-Concrete Floor

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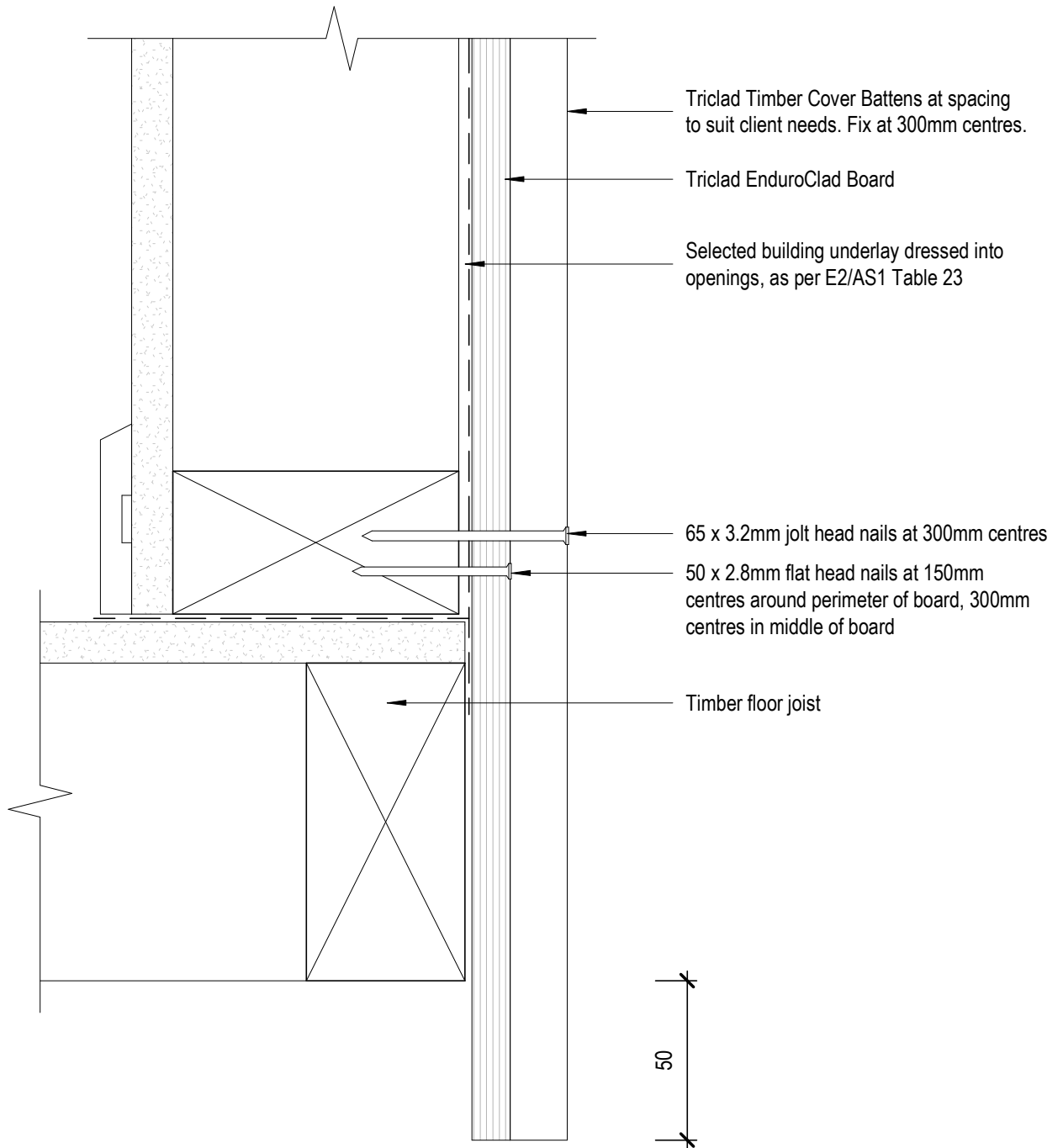
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 21
Dwg

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TRICLAD
CLADDING SYSTEMS

8 Quail Place
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Direct Fix Base Detail-Timber Floor

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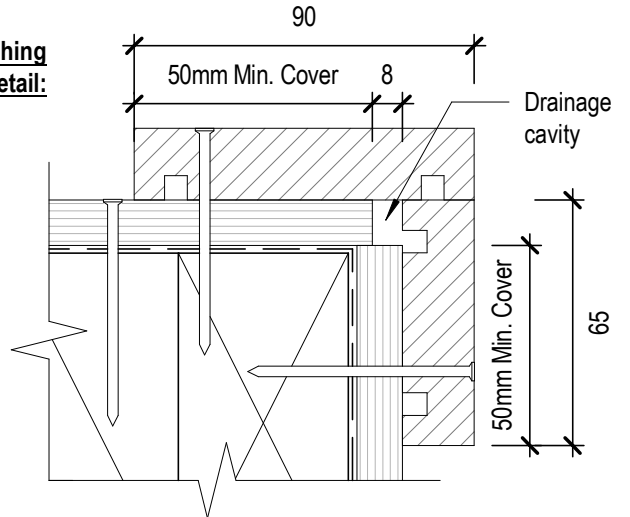
1 : 2 @ A4
Scale

Dec 2019
Date

Fig 22
Dwg

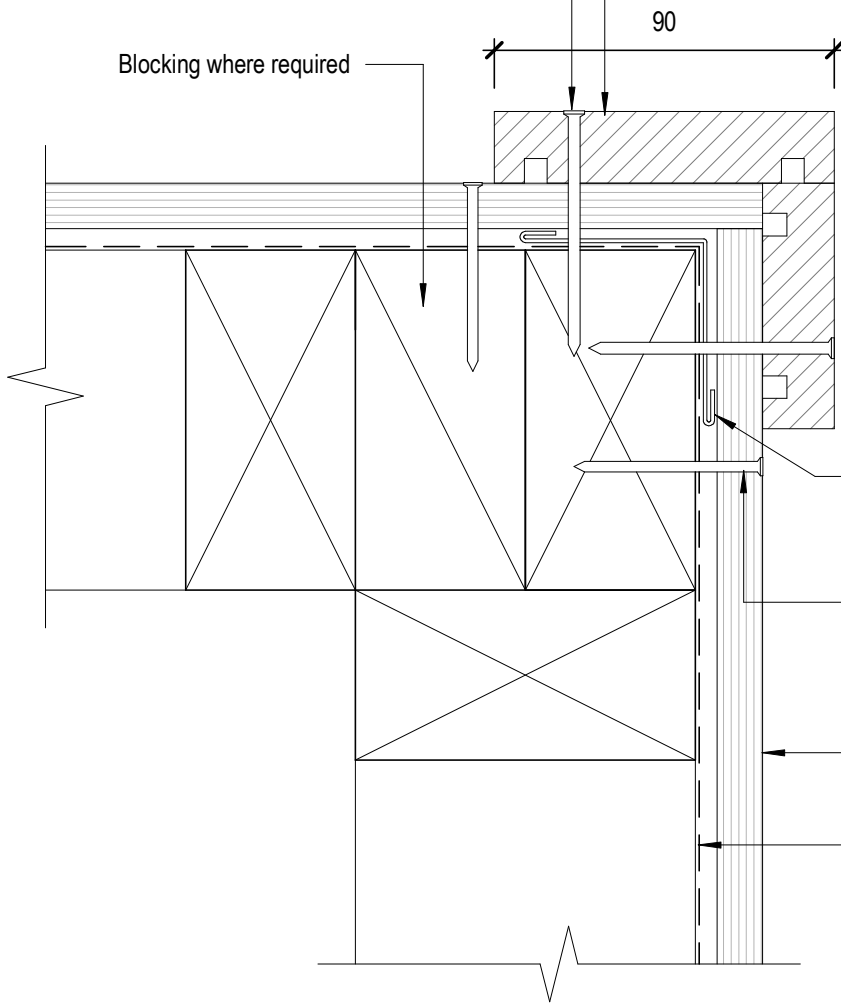
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**Non-Corner Flashing
Optional Detail:**



Timber facing boards, rip to suit cover
65 x 3.2mm jolt head nails at 300 centres

Blocking where required



Minimum 50x50mm external corner flashing hem edge folds compatibility to comply with NZBC E2/AS1

50 x 2.8mm flat head nails at 150mm centres around perimeter of board, 300mm centres in middle of board

Triclad EnduroClad Board

Building underlay continuous around corner as per E2/AS1 Table 23



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Direct Fix External Corner-Boxed

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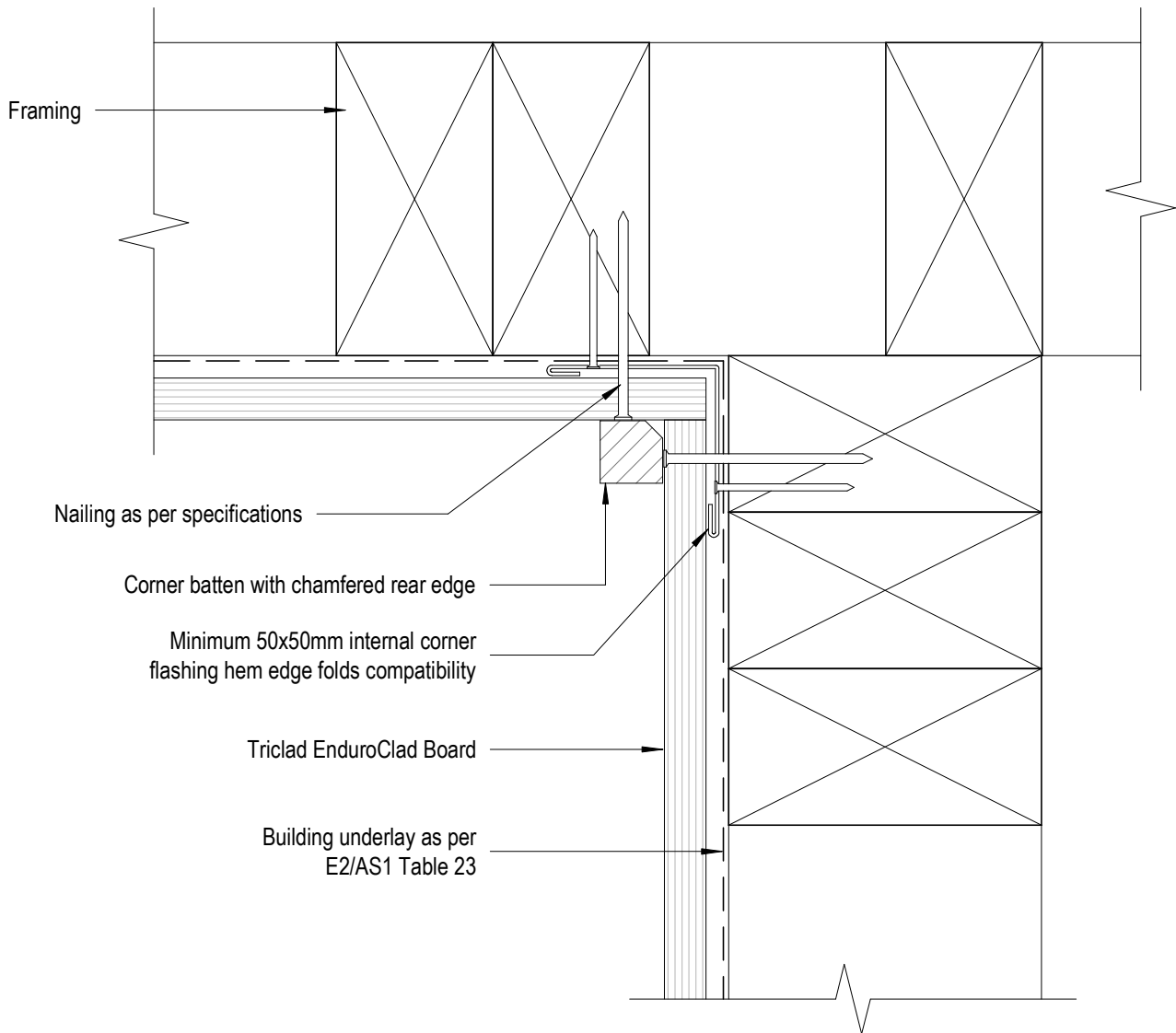
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 23
Dwg

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TRICLAD
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8 Quail Place
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Hamilton
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**Direct Fix
Internal Corner**

T. 0800 874 2523

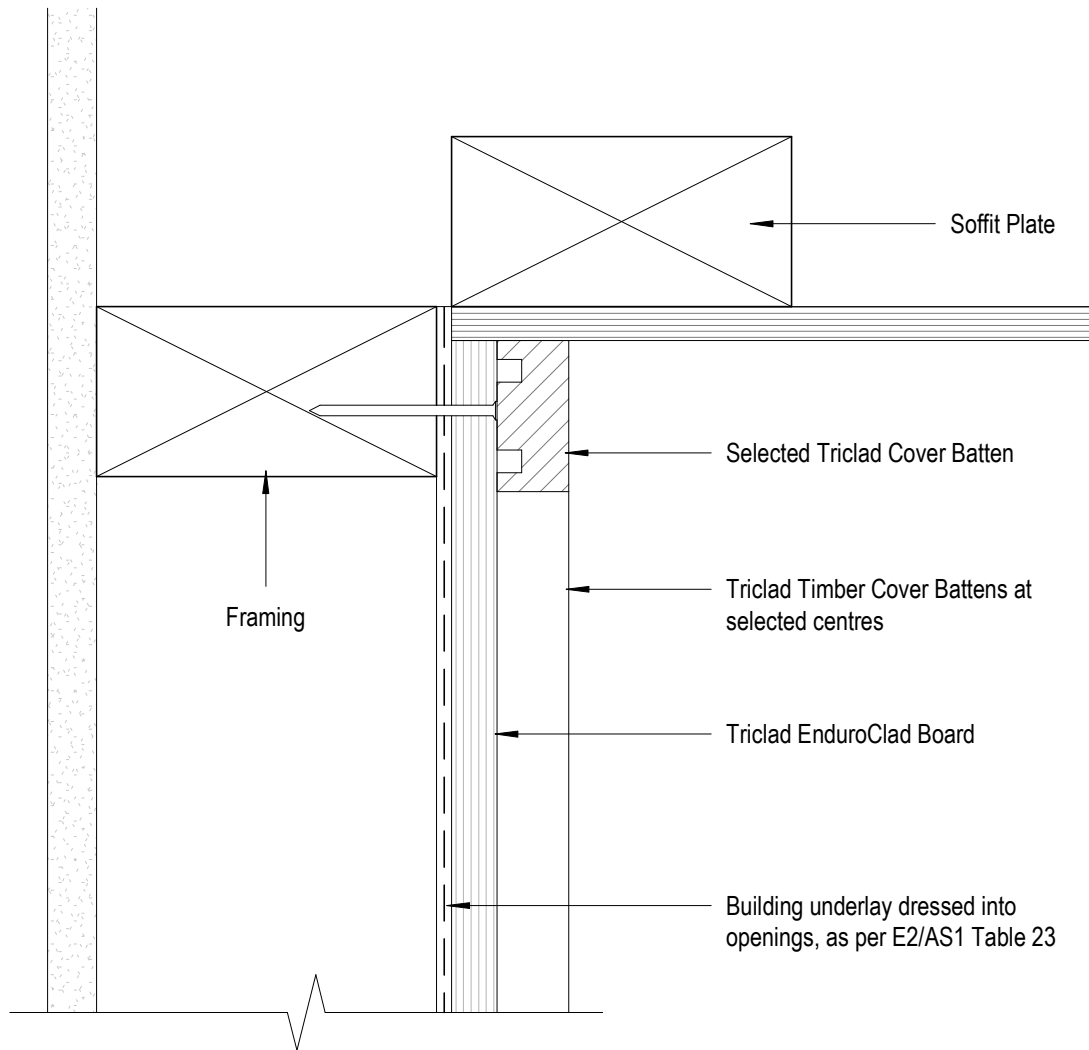
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 24
Dwg

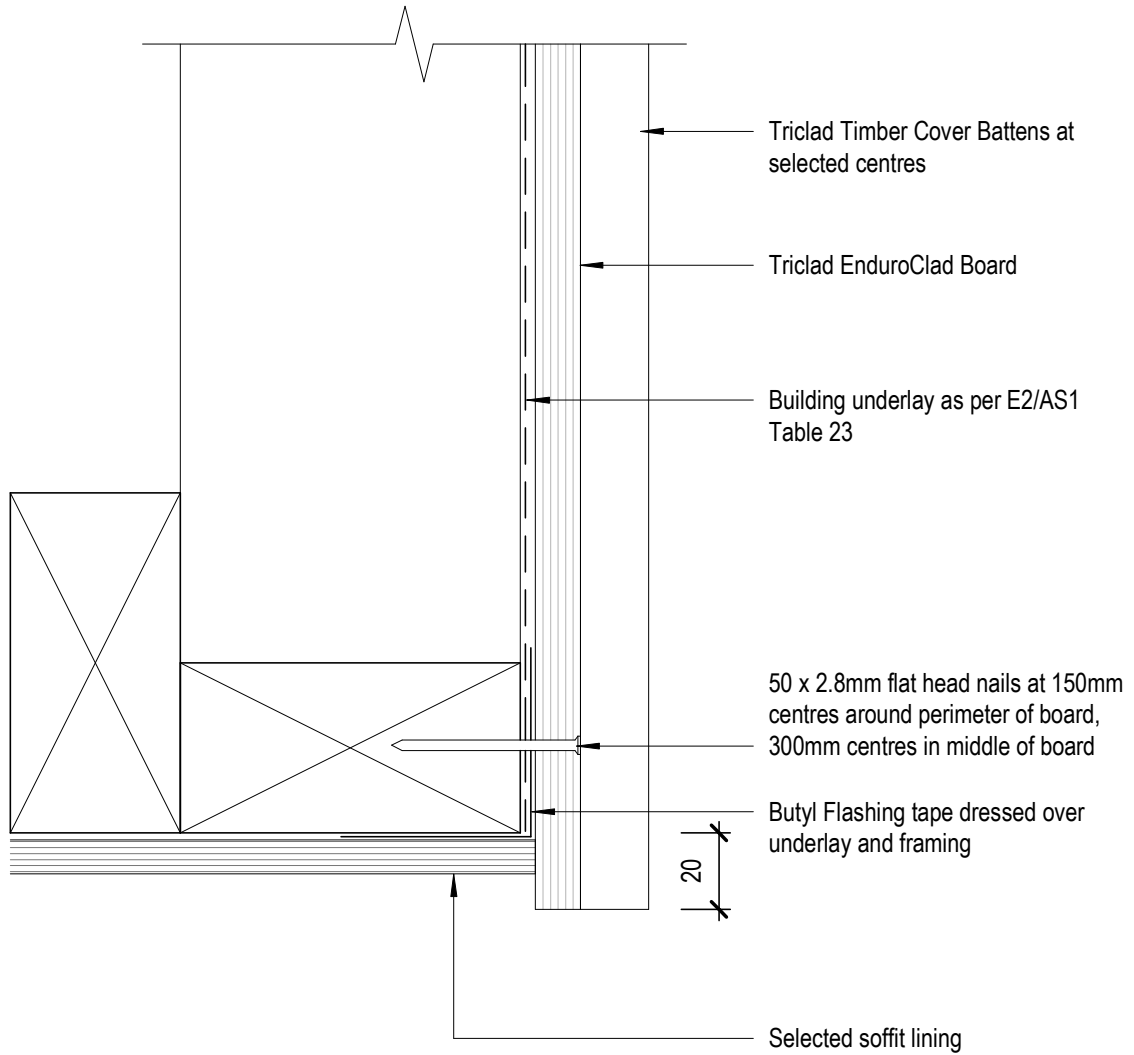


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8 Quail Place
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Direct Fix Soffit Detail

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CLADDING SYSTEMS

8 Quail Place
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Direct Fix Soffit/Beam Detail

T. 0800 874 2523

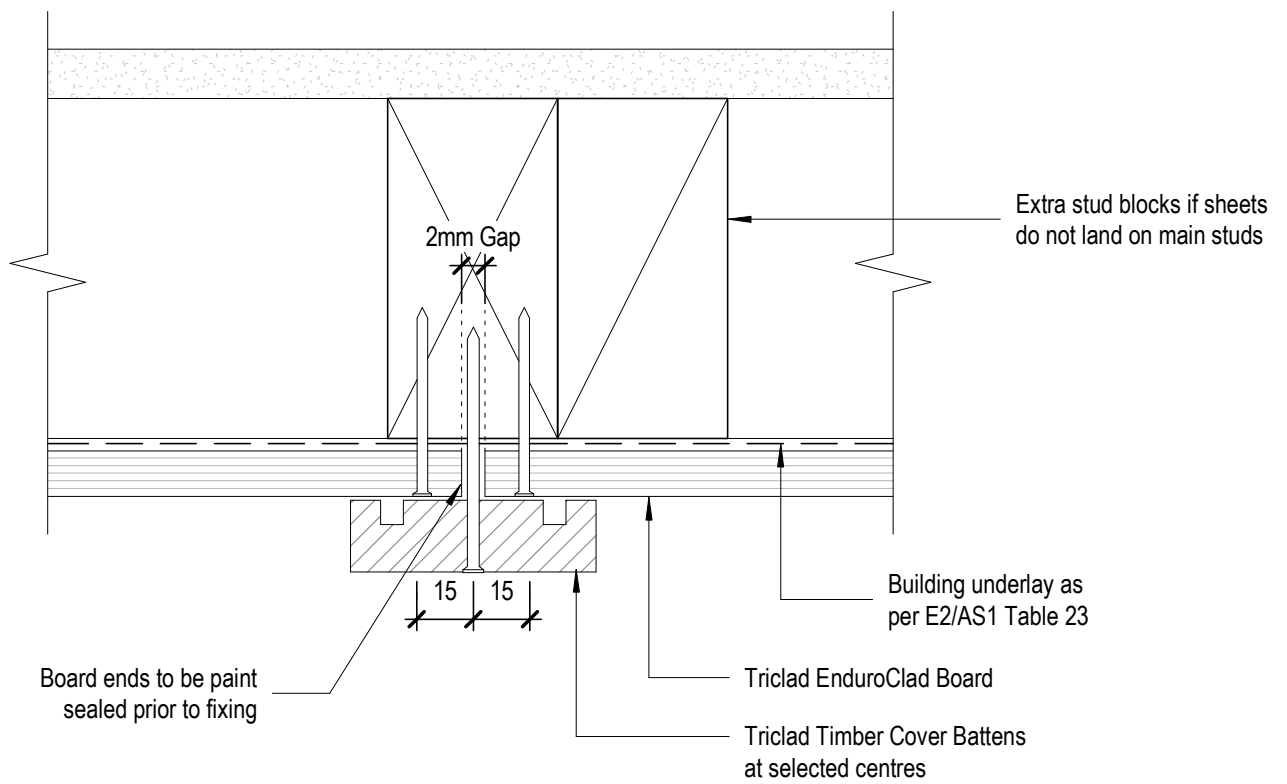
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 26
Dwg

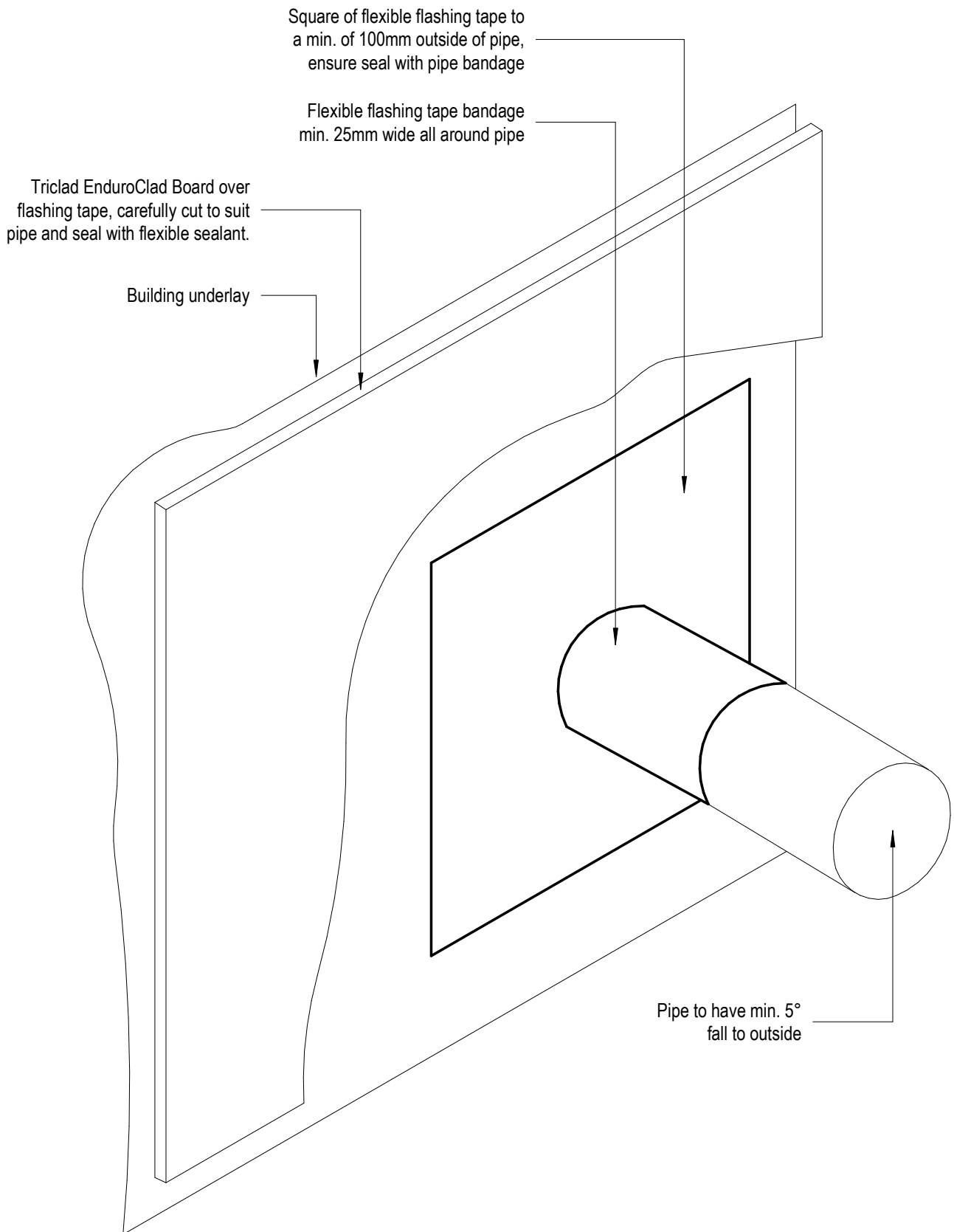


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8 Quail Place
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Direct Fix Board Joint Detail

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8 Quail Place
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New Zealand

Direct Fix Penetration Detail

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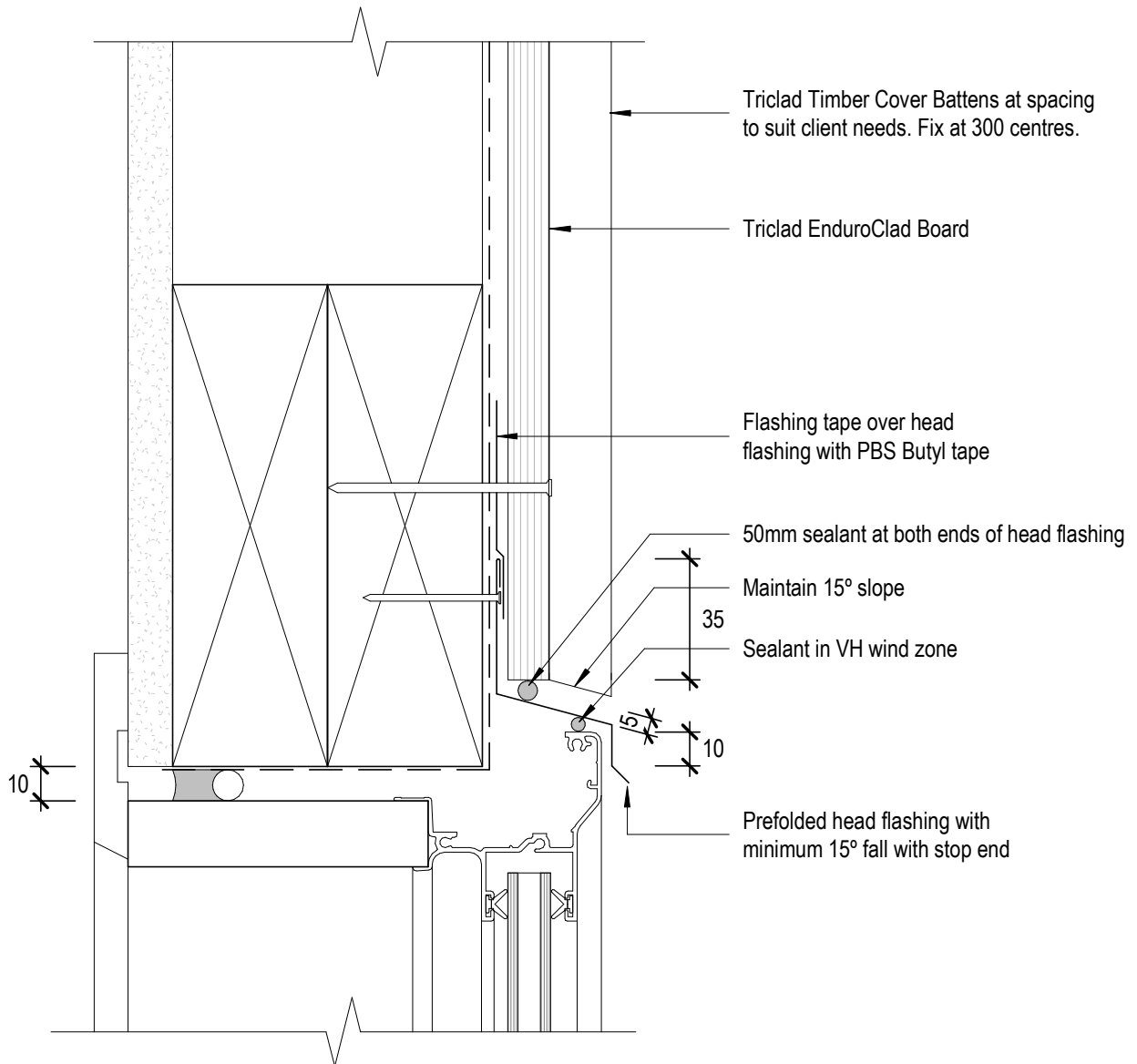
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1 : 5 @ A4
Scale

Dec 2019
Date

Fig 28
Dwg

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8 Quail Place
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Direct Fix Window Head Detail-Aluminium

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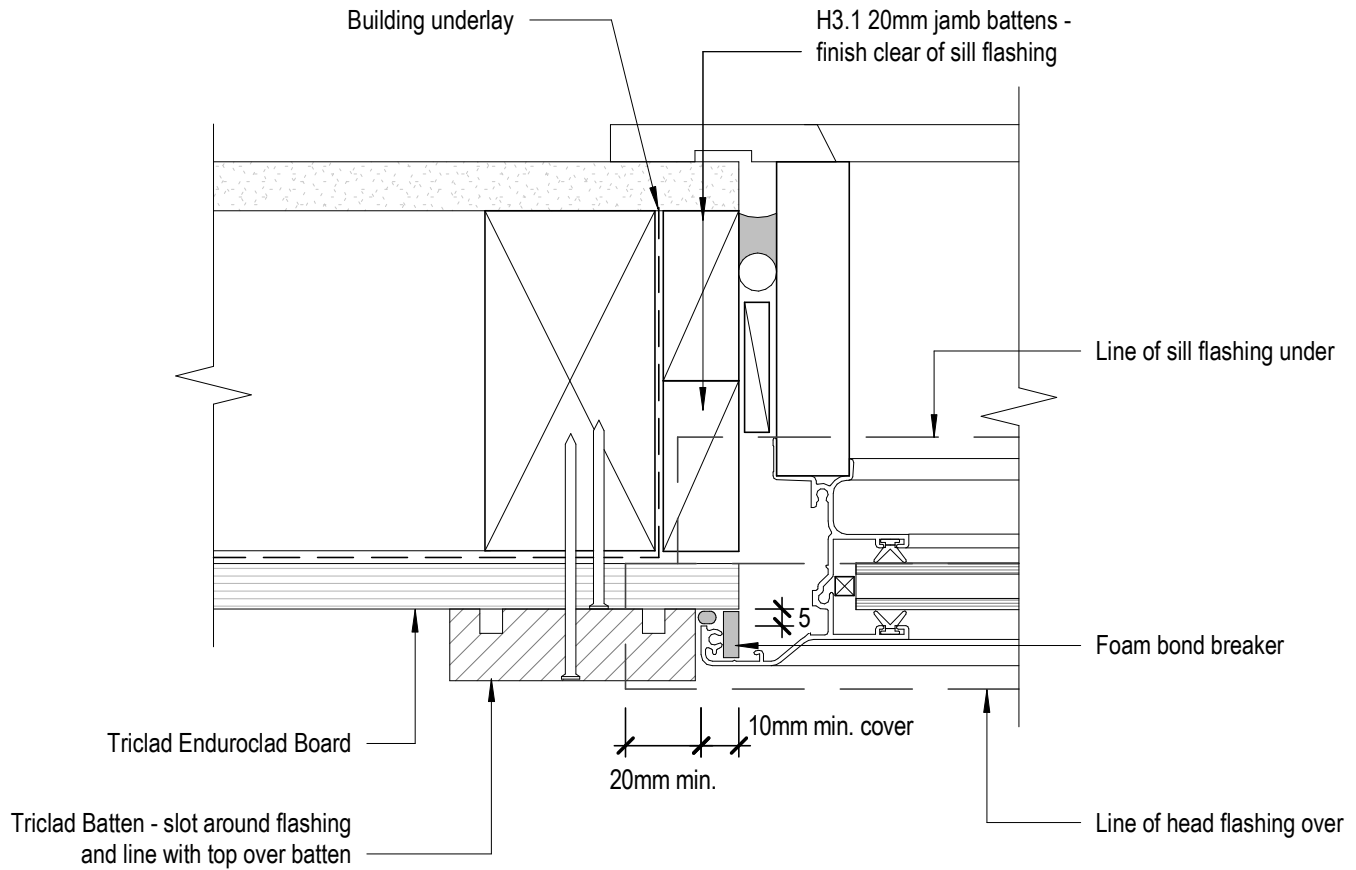
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 29
Dwg

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TRICLAD
CLADDING SYSTEMS

8 Quail Place
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Direct Fix
Window Jamb Detail-Aluminium

T. 0800 874 2523

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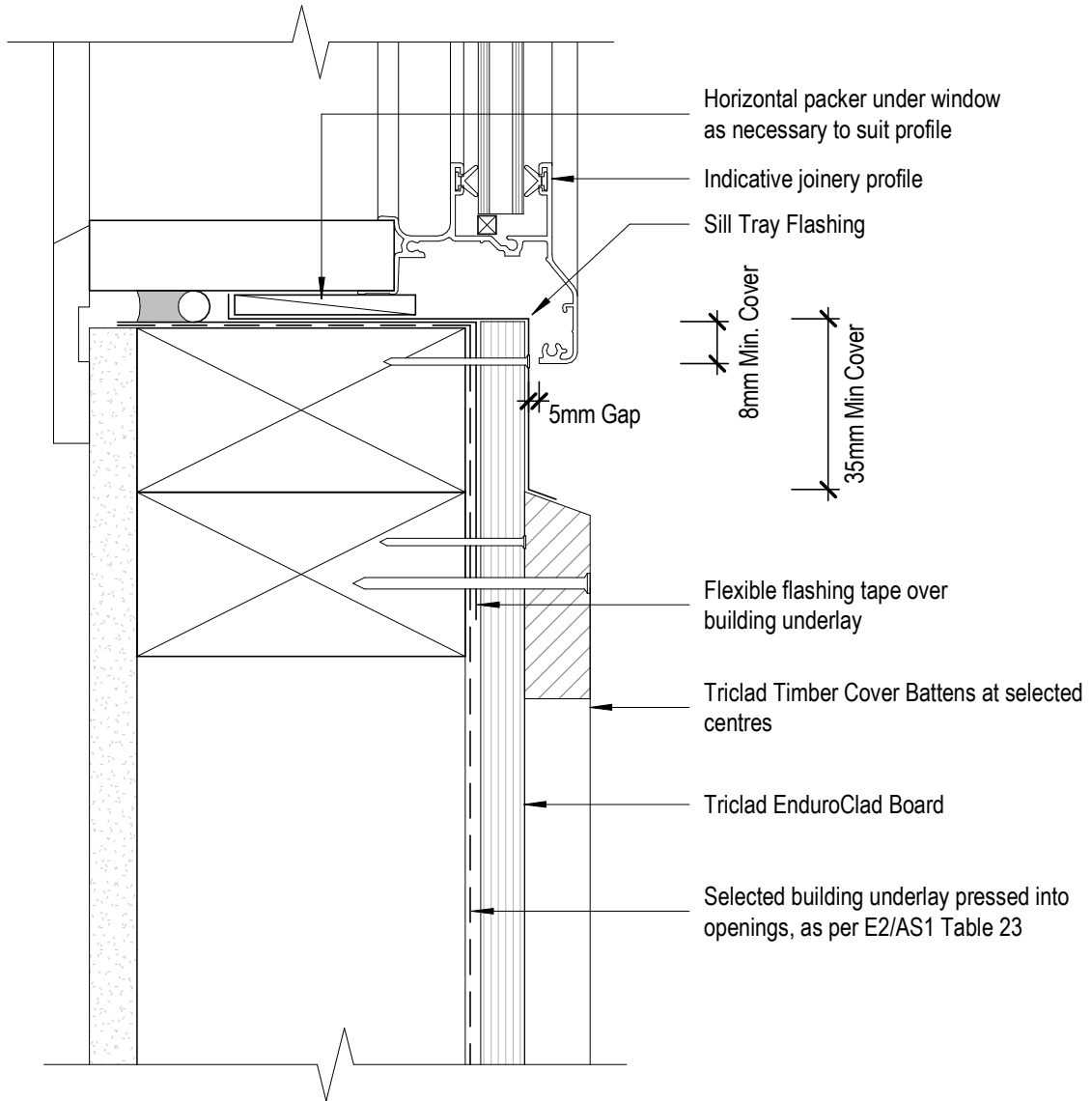
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 30
Dwg

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TRICLAD
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8 Quail Place
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Hamilton
New Zealand

Direct Fix Window Sill Detail-Aluminium

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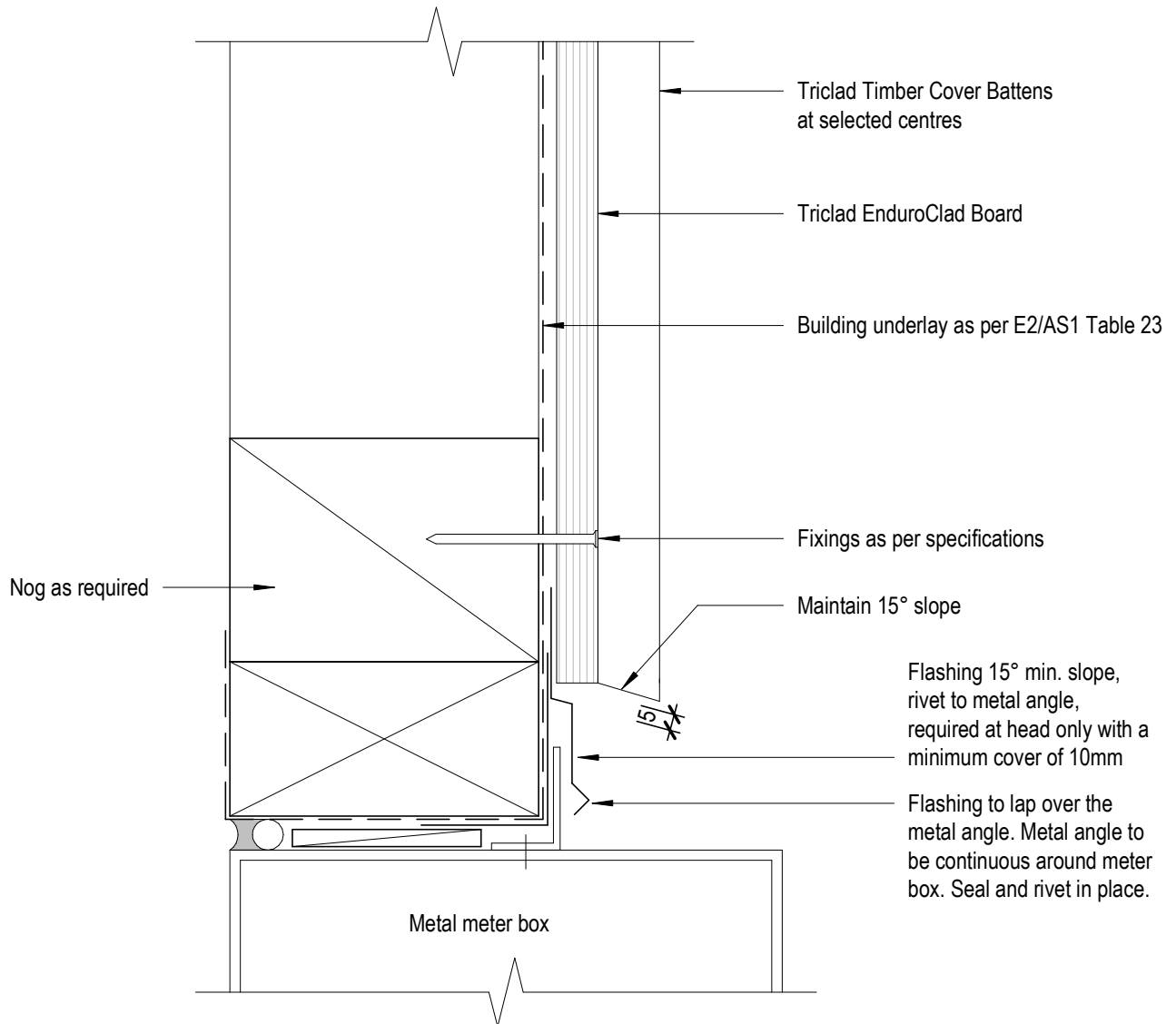
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1 : 2 @ A4
Scale

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Date

Fig 31
Dwg

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TRICLAD
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8 Quail Place
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Hamilton
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Direct Fix Meter Box Head

T. 0800 874 2523

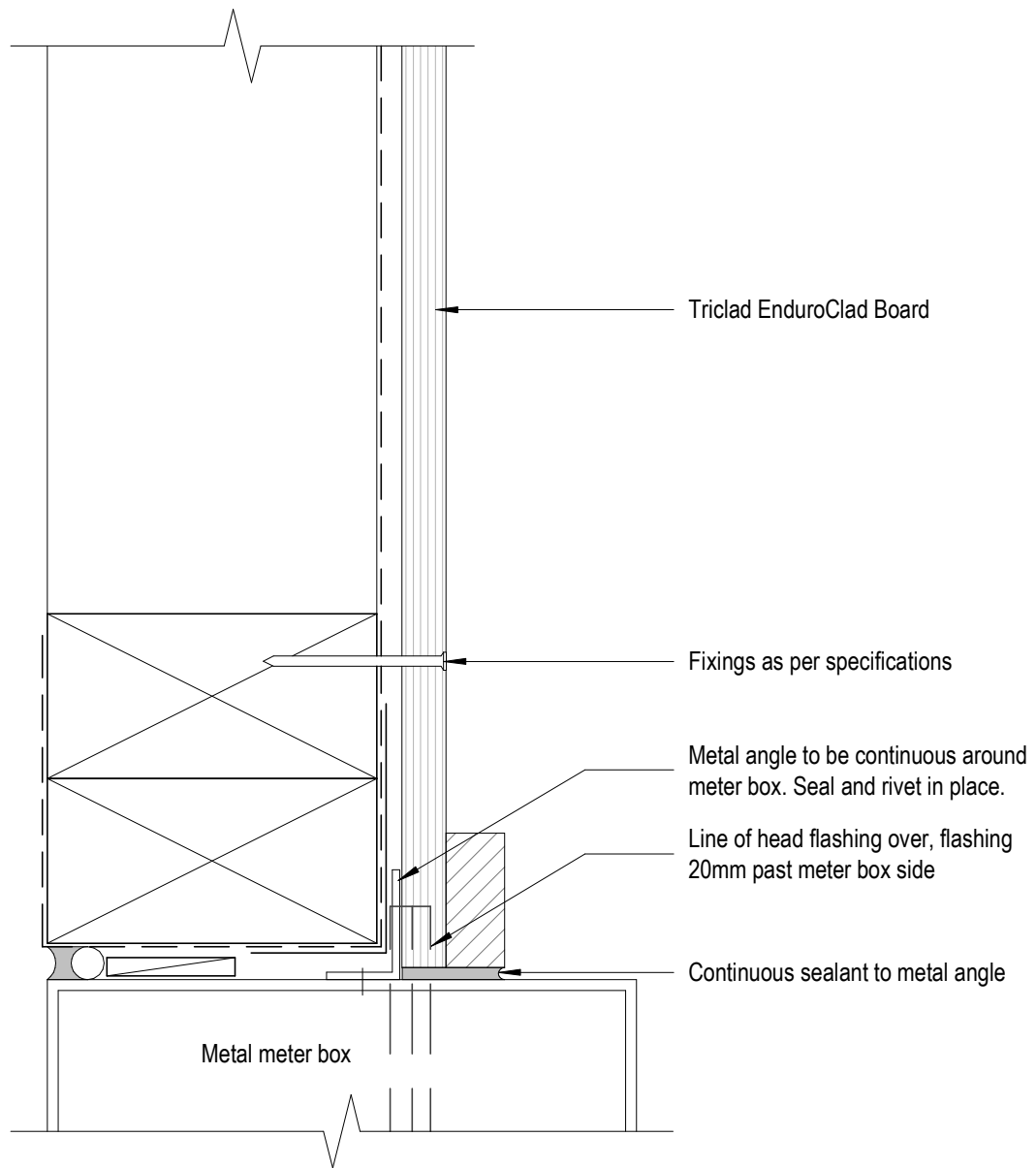
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1 : 2 @ A4
Scale

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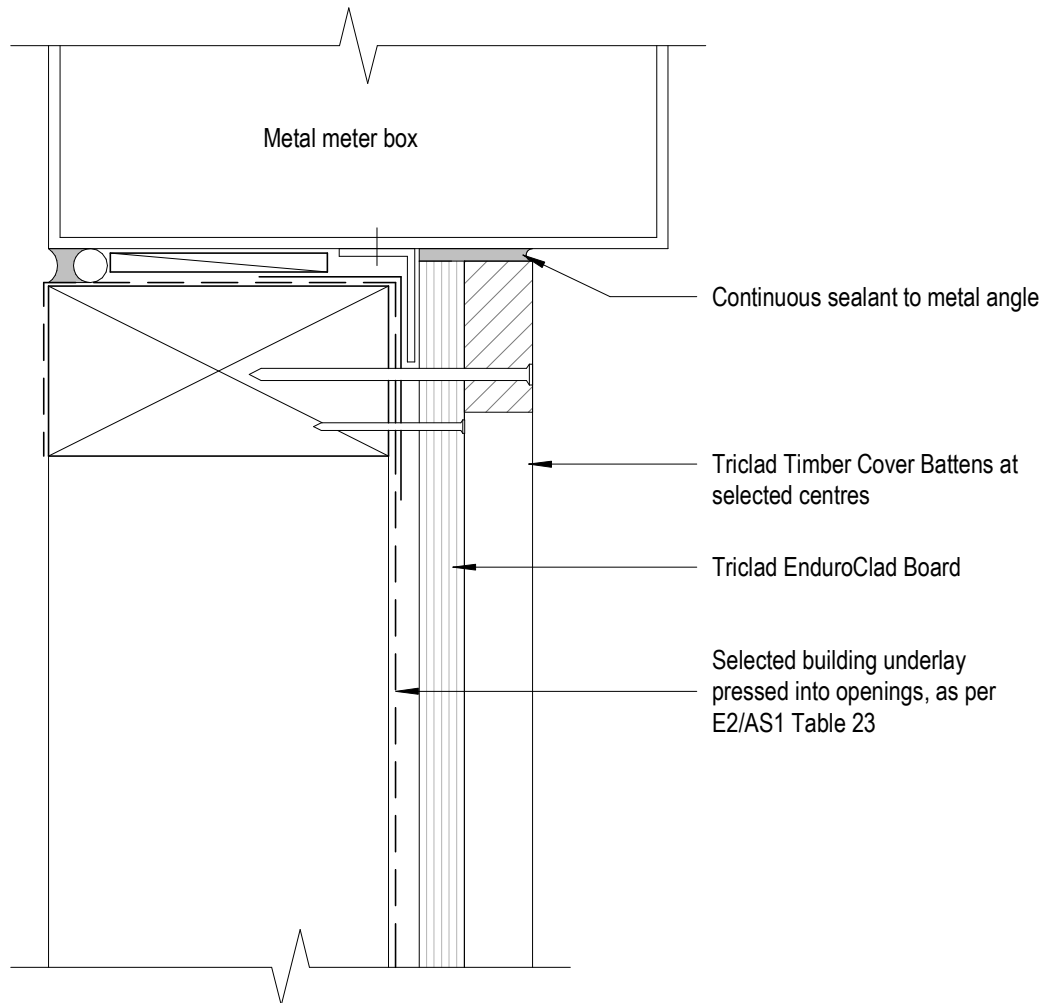
Fig 32
Dwg



TRICLAD
CLADDING SYSTEMS

8 Quail Place
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Direct Fix Meter Box Jamb

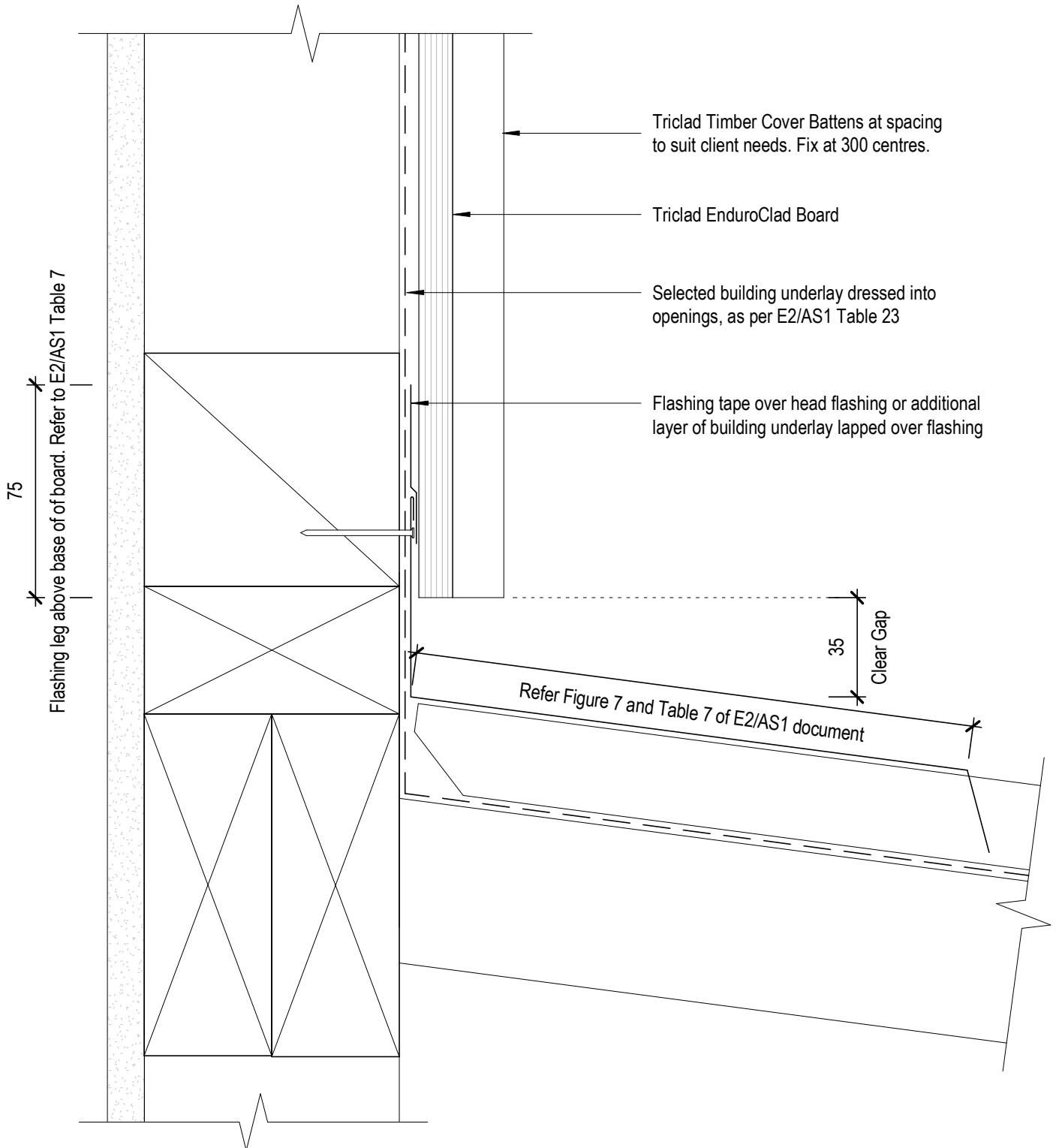


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8 Quail Place
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**Direct Fix
Meter Box Sill**

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8 Quail Place
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Direct Fix Roof/Wall Detail

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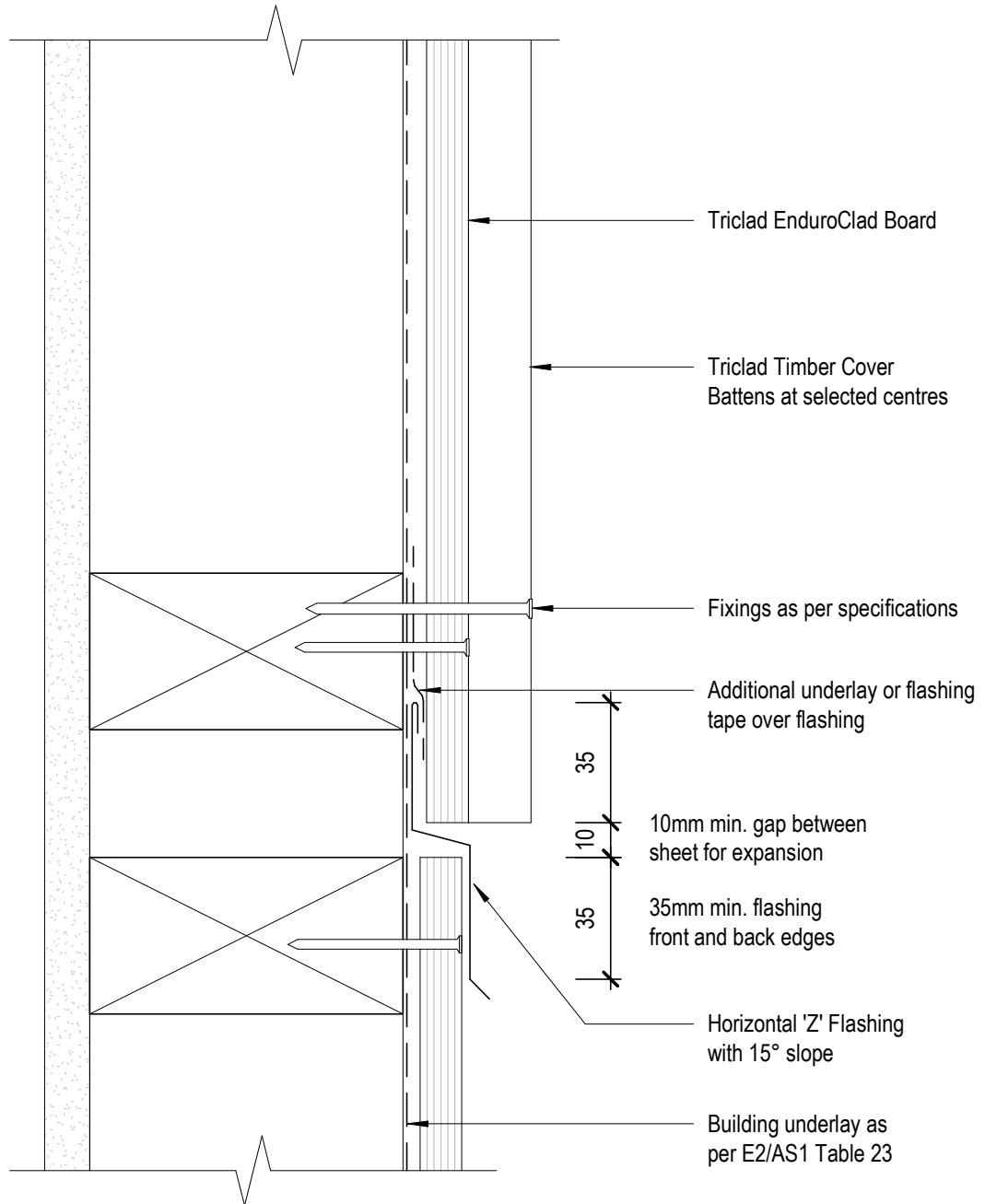
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 35
Dwg

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8 Quail Place
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Direct Fix Horizontal Join Detail

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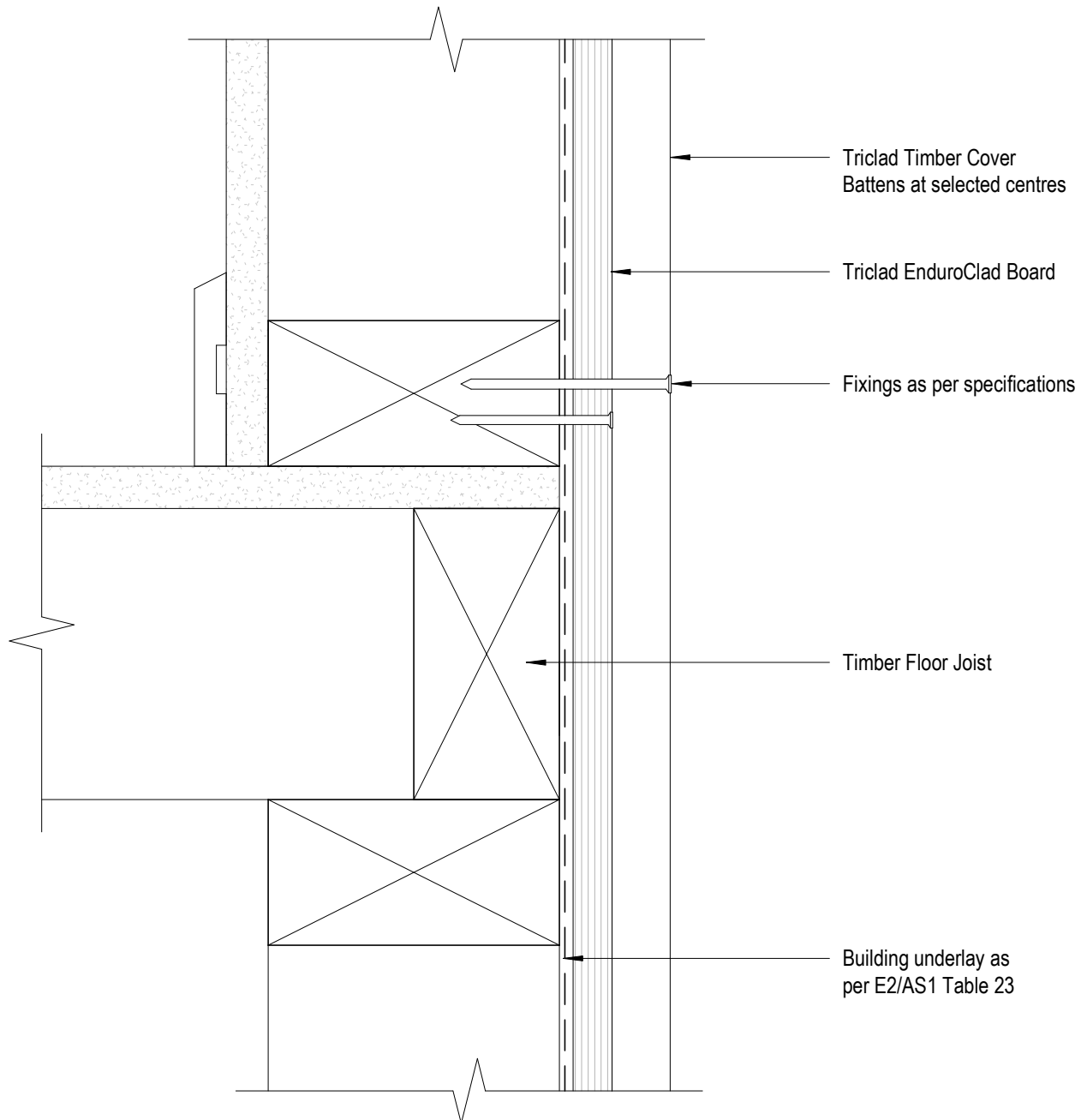
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1 : 2 @ A4
Scale

Dec 2019
Date

Fig 36
Dwg

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TRICLAD
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8 Quail Place
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Direct Fix Inter-Story Detail - No Join

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1 : 2 @ A4
Scale

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Date

Fig 36a
Dwg