Generation 2

NZ Timber Cladding Systems

MICROPRO® TREATMENT WARRANTY 50 YEARS MICROPRO® TREATMENT WARRANTY

CODEMARK™ AQ-020216-CMNZ

VERSION 4 01/09/2019

NATURAL. DURABLE. CLASSIC.

PROUDLY MADE IN NZ BY KLC Naturally Better

Generation 2 bevelback weatherboards are proudly 100% New Zealand made.

We pride ourselves on delivering a premium weatherboard to work with and know you are well protected.

- Treatment warranty of 50 years protection.
- Treated with Koppers MicroPro® Wood Treatment Technology.
- Reduced corrosivity allowing the use of corrosion-resistant fasteners including hot-dipped galvanised, stainless steel or other approved fasteners to meet building code requirements
- New Zealand Radiata Pine sourced from renewable plantation forestry. KLC is a Chain of Custody, FSC® Certified Company.
- Eco-friendly with four environmental credentials.
- Weatherboards up to 6.3 metres in length.
- Formaldehyde-free and low volatile organic compounds used in the treating and gluing manufacturing process.
- No odour.
- A two coat, superior alkyd (oil based) priming system.
- Approved for aluminium contact.

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DISCLAIMER

The recommendations contained in this document are based on good building practice, but are not an exhaustive statement of all relevant information. The successful performance of the system relies on many factors outside the control of KLC Limited, such as the quality of workmanship and design. KLC Limited will not be responsible for the installation of the products outside of the control of KLC Limited. It is the responsibility of the building designer of the intended project to ensure that the details and recommendations provided are suitable and that the design is executed appropriately.

1.1 SCOPE AND GENERAL INFORMATION

The KLC Generation 2 H3.2 range of Bevelback weatherboards, fascia, cavity battens, scriber and finishing boards (D4S) have been designed as a complete system.

Generation 2 H3.2 Bevelback weatherboards can be used for buildings that fall within the scope of NZS 3604/2012 Timber Framed Buildings and Acceptable Solutions E2/AS1. Buildings that have a weathertightness risk score of more than 6 as assessed in E2/AS1 section 3 will require a drained and ventilated cavity.

Including

- NZS 3602:2003 Timber Wood Based Products
- AS/5068 Finger Joints in Structural Products
- AS/5069 Finger Joints in Non-Structural Products
- NZS 1328.1:1998 Glued Laminated Structural Timber

Meets and Exceeds

- NZS 3640:2003 Preservation of timber and wood-based products

The information contained within this guide are based on good building practice and are not a complete statement of all relevant building practices.

The drawings are as accurate as possible. KLC have specified extra flashing's in some areas that are over and above the requirements of NZBC E2/AS1 External Moisture

1.2 PRODUCT INFORMATION

KLC Generation 2 H3.2 products are manufactured from short lengths of clear high grade radiata pine that are finger-jointed together using a structural glue to produce an untreated length of 6.3metres (substrate).

The substrate is then treated to H3.2, using the revolutionary wood treatment technology called MicroPro®. MicroPro®, Micronized Copper Azole (MCA) preservative system protects wood products from insects, termites and fungal decay and is manufactured by Koppers Performance Chemicals. The preservative contains a mixture of micronised copper carbonate (copper) and tebuconazole (azole). The MicroPro® treatment system is a water-borne, copper-based biocide preservative system with four Environmental Certifications.

These environmental certifications have been awarded to Koppers MicroPro® Wood Treatment Technology

1. Scientific Certification Systems

MicroPro® is the first treated wood process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment. As the leader in green building product certification since 1990, SCS was the first company to offer manufacturers a program for verifying the accuracy of environmental claims on products.

2. Greenguard® Environmental Institute

MicroPro® is environmentally sustainable, this is demonstrated in low leaching of treatment preservatives from the timber, low volatile organic compound (VOCs) emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.

3. Global GreenTag International - GreenRate™

MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A award under Version 4.0 of the Global GreenTag International Product Certification Standard. It is the highest-level achievement for a product under Global GreenTag's GreenRate™ product rating system – declared by the certification body as 'Fit-for-Purpose' and confirmed for Green Building compliance.

4. Global GreenTag International - Health Declaration

The GreenTag™ Product Health Declaration proves that Koppers MicroPro® Wood Treatment Technology is safe for human health (and ecosystems) and can be used with absolute peace of mind in workplace and residential building projects. Reducing risks for Building, Design and Procurement Professionals whilst supporting the user and occupant's health and wellbeing compared to products that don't.

The blanks are then kiln dried (KD) to a pre-determined moisture content. The KD H3.2 substrate is then profiled to various Weatherboards, Fascia, Finishing Boards (D4S), box corners and other profiles.

To complement these appearance grade products, a dual coat oil based (alkyd) priming system is applied.

KLC will not "Warranty" any Generation 2 H3.2 product that have not been stored correctly and installed by a professional Licenced Building Practitioner and as per the NZ Building Code NZS 3604 and painted in accordance with AS/NZS 2311 2009.

KLC Generation 2 exterior cladding systems have been designed for use in residential and small commercial building applications.

KLC Generation 2 H3.2 exterior cladding systems shall be either direct fixed to framing over a wall underlay or fixed to a Generation 2 H3.2 cavity batten, this method is described in the Acceptable Solution E2/AS1 paragraph 9.1.8.

Timber weatherboards are included in the Acceptable Solution E2/AS1, section 3.0.

All types of weatherboard profiles may be used in low risk buildings. Only bevel back, rusticated and vertical shiplap weatherboards should be used in high risk buildings. For information on requirements for rained ventilated cavities refer to the Acceptable Solution E2/AS1, paragraph 9.1.8.

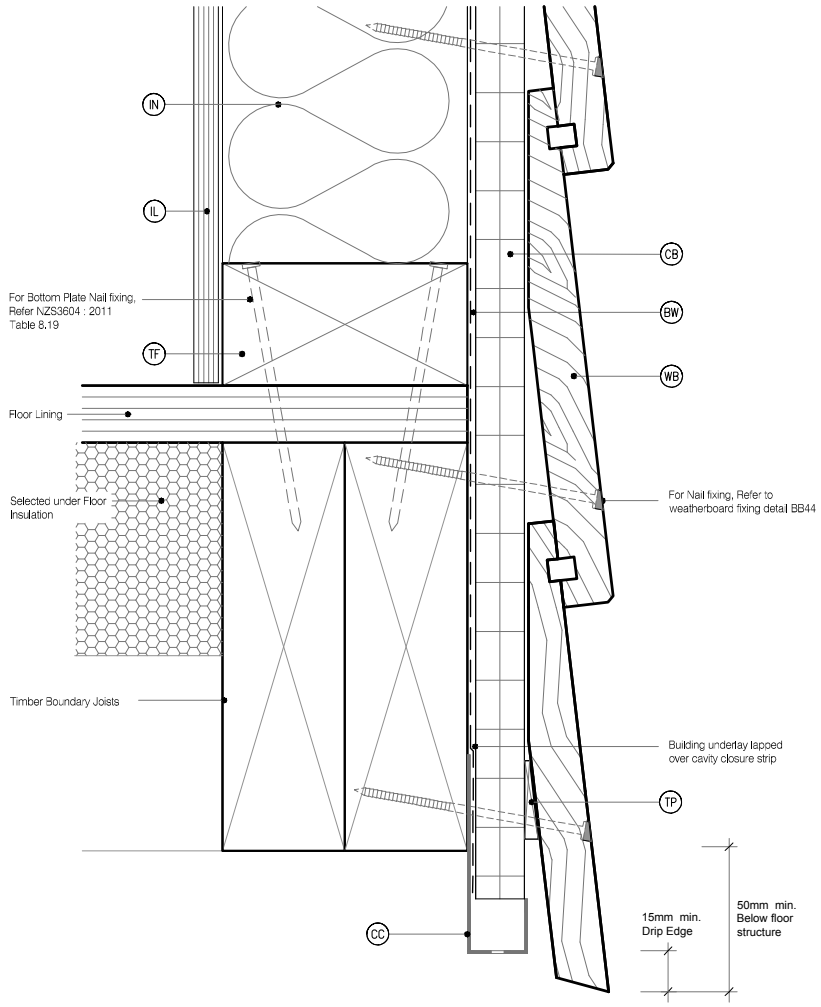
KLC Generation 2 H3.2 weatherboards are limited to use in buildings with a risk matrix score of 20 or below as outlined in E2/AS1 paragraphs 3.4.1 to 3.4.3 (Weather Tightness Matrix)

Weatherboard cladding systems are an acceptable solution under the terms of the New Zealand Building Code E2/AS1. NZBC E2/AS1 section 1.5 specifies that the design, installation and alteration of cladding is classed as restricted building work.

Bevelback Weatherboard Fixings and Fixing Methods

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23. In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT2) FLEXIBLE FLASHING TAPE: Additional underlay of flexible flashing tape lapped over Apron flashing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)



MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products, It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is"Fit-for-Purpose" and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB60-66 - GENERAL DETAILS 03.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

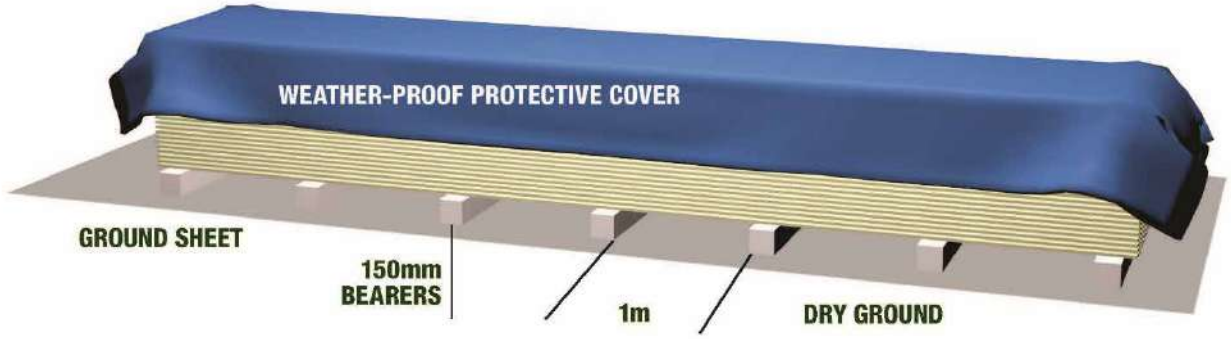
NAME Base of Wall, Timber

CODEMARK AQ-026216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018
DRAWING No	REVISION
KLC CF20 BB60	1

1.3 ON-SITE STORAGE – KEEP IT DRY

Correct on-site storage of Generation 2 H3.2 products prior to installation is critical.



Ensure the product is stored on site correctly. Inside, under cover or as per the diagram above if stored outside.

- MUST remain dry at all times prior to installation.
- MUST be stored indoors on a flat surface off the ground, on bearers 150mm above ground, supported every one metre.
- If stored outside, there MUST be a moisture barrier (ground sheet) under the stack and a secondary waterproof cover. Allow for a good air circulation.
- Keep out of direct sunlight and protected from both rain and ground moisture uptake.
- Ensure that the framing and cavity battens are dry prior to installation. The underside of the weatherboard is vulnerable to water ingress. The moisture content must not exceed 15% at time of installation.

Note: Generation 2 H3.2 products are made from kiln dried timber. Timber will absorb moisture in a damp environment and release it in a dry environment. If Generation 2 H3.2 products do absorb moisture prior to installation, dimensional swelling may occur, this will disappear when the timber returns to its original moisture content. If the boards have become wet, check the dimensions of the profile. If the dimensions are larger than the specification leave the boards to dry and regain correct profile specifications before installation.

Handling

- Care should be taken when unloading KLC Generation 2 product. The profiles should be unloaded by hand or if unloaded by mechanical means, ensure that there is a minimum of 2 well-spaced load points to avoid excessive bending or flexing during unloading.
- Always carry profiles products on their edge and avoid leaning against any vertical surface to avoid any bending.

KLC Generation 2 weatherboards have a durability warranty based on the Treatment Manufacturer's 50-year limited guarantee.

Under the New Zealand Standards NZS 3602:2003 Timber Wood Based Products, weatherboards and cladding products must have a minimum durability of 15 years.

The life service is subject to correct installation, paint coating of the product, maintenance and care.

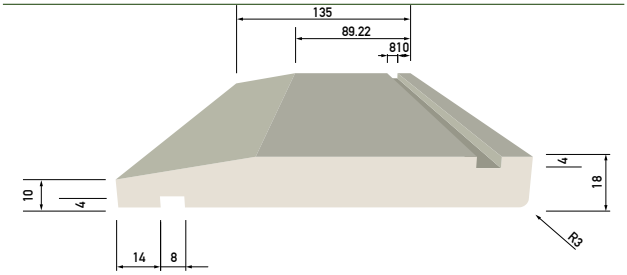
When KLC Generation 2 weatherboards are installed according to the instructions contained in this manual and by a Licenced Building Practitioner (LBP) or suitably qualified person, the service life can be expected to be considerably longer.

Full details covering all the aspects of pre-installation care, installation, painting and maintenance are contained within this manual.

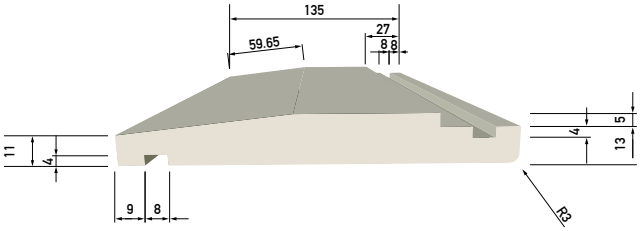
Bevelback Weatherboard Measurement Table

Bevel Back Profile Sizes	Finish Grade	Lap	Cover	Length	Lm/m2
135x18	Finger Jointed	32mm	103mm	6.3m	9.71
135x18 Rebated	Finger Jointed	32mm	103mm	6.3m	9.71
142x18	Finger Jointed	32mm	110mm	6.3m	9.09
142x18 Rebated	Finger Jointed	32mm	110mm	6.3m	9.09
187x18	Finger Jointed	32mm	155mm	6.3m	6.45
215x18	Finger Jointed	32mm	183mm	6.3m	5.46
230x18	Finger Jointed	32mm	198mm	6.3m	5.05

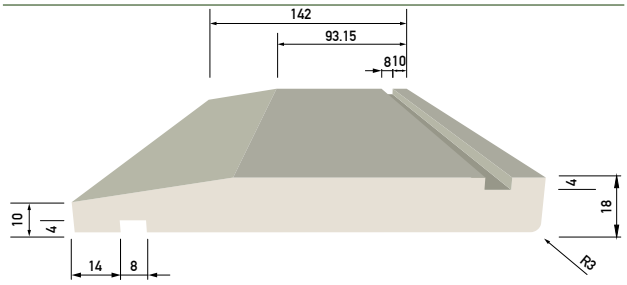
135 x 18



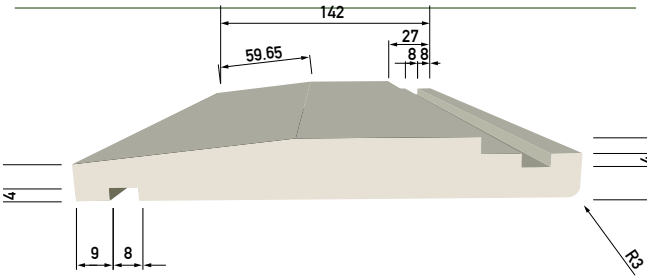
135 x 18 Rebated



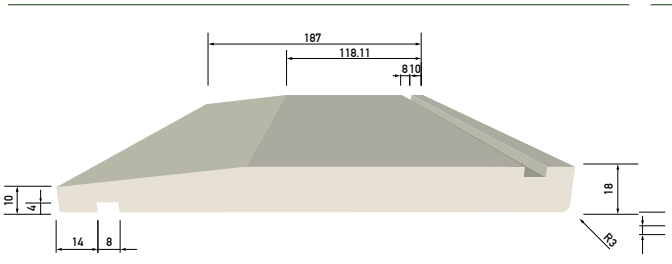
142 x 18



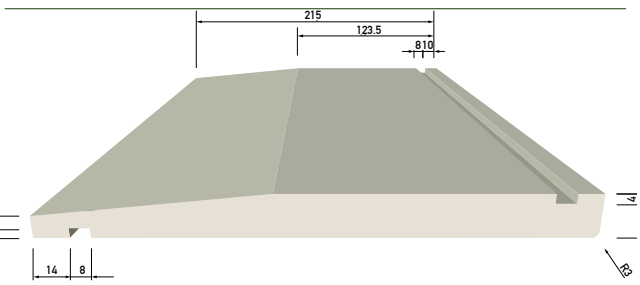
142 x 18 Rebated



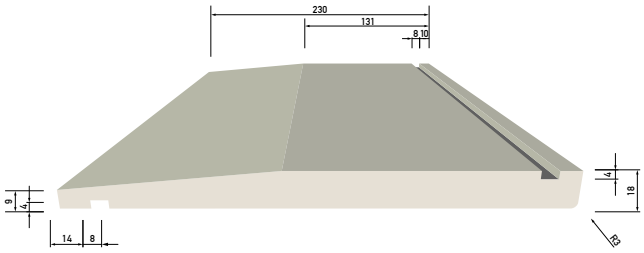
187 x 18



215 x 18



230 x 18



The products should be installed by a competent qualified person in accordance with the provisions of the Building Code E2/AS1 (sec 9.4) and NZS 3604 (2011). For further information visit BRANZ Good Practice Guide, Timber Cladding.

3.1 PRE-INSTALLATION CHECKS

There are many simple checks that should be carried out prior to installation which can avoid issues during installation.

- Where any KLC Generation 2 profile has been exposed to moisture prior to installation, the moisture content should be checked. If the moisture content is above 15% then the product should not be installed until it returns to 15% or less.
- When excessive moisture or swelling is found the profile should be put aside and allowed to dry to its original profiled dimensions. This is best done by placing the product in fillet and stored as outlined above. Filleting allows air movement through the boards for drying.
- Check for any defects or damage caused during delivery or storage.
- Remove any dirt, dust or stones which may be on the product.
- If there are any areas where a primer coat has been removed or damaged, the affected area should be sanded smooth and a primer coat applied.
- This product is primed with a factory applied alkyd (oil based) architectural coating, a similar oil-based undercoat or primer must be used for touch-up work
- If building in “sea spray or geothermal zones”, it is the building designer’s responsibility to ensure all specified fastenings, fittings, and flashings comply with NZS 3604, Section 4 – Durability.

3.2 FRAMING

The timber framing must comply with NZS3604 – Timber Famed Buildings with maximum of 600mm centres.

- The moisture content of the framing must not exceed 20% at the time of fixing the weatherboard. Excessive moisture content in the timber framing may cause movement in the framing structure thus altering the weatherboard positioning.
- Additional framing may be required at soffit, corners, windows and door opening

3.3 NAIL SELECTION

KLC Generation 2 H3.2 weatherboards are treated using the revolutionary water based micronised copper timber treatment technology called “MicroPro”.

- In most applications both stainless steel and hot dip galvanised steel fixings and fasteners are safe to use with MicroPro® treated exterior products. Compliant to AS/NZS 4680 and to NZBC E2/AS1 Table 24.
- Note In sea-spray and Geothermal zones nails must be Stainless Steel.
- Hand nailing is recommended as the use of nail guns can cause fibre damage to the face and back of the board.

Based on MicroPro® ISANTA fastener corrosion test results, MicroPro® treatment is considered similar to CCA treatment with regard to the effects on fastener material. Therefore, in most applications both stainless steel and hot dip galvanised steel fixings and fasteners are safe to use with MicroPro® treated exterior products. Compliant to AS/NZS 4680 and to NZBC E2/AS1 Table 24.

Nail Option A	Nail Option B
One Nail to Framing (refer E2/AS1 - Table 24)	Structurally Fixed Cavity Batten (Refer BRANZ Bulletin No 582 & Test Report ST0589)
Weatherboard & Cavity Batten Fixing 90 x 3.55mm Jolt Head, Hot Dip Galvanised Nails OR 75 x 3.15mm CSK Annular Grooved, HD Galvanised Nail 75 x 3.15mm CSK Annular Grooved, SS Nail	BATTEN FIXING OPTION 60 x 2.8mm Jolt Head, Hot Dip Galvanised Nail 65 x 2.87mm Power Driver, Hot Dip Galvanised Nail 65 x 2.87mm Power Driver, Annular Grooved SS Nail

Bevelback Nail Selection Table

Timber size (mm)	Generation 2 profile	Recommended minimum nail size
135x18, 142x18, 180x18, 187x18, 215x18 and 230x18	Bevelback direct fixed weatherboards	75x3.15
135x18, 142x18, 180x18, 187x18, 215x18 and 230x18	Bevelback cavity fixed weatherboard	75x3.15
85x18 & 100x18, 100x100 cover	External and Internal Box Corners	50x2.50
All sizes D4S	Finishing Boards	50x2.00
40x18	Scriber	50x2.00
45x20	Cavity Batten	60x2.80

3.4 INSTALLATION

Installation must be by a Licensed Building Practitioner (LBP), or supervised by an LBP. Please refer to BRANZ Bulletin Number 468, Fixing of Timber Weatherboards or refer to detail drawings contained in this document or online.

Using a TP (timber packer), position and fix the bottom weatherboard. Ensure there is a minimum of 50mm overlap below the bottom plate or bearer. The purpose of a TP is to provide the accurate layback angle for the bottom board.

Use 75 x 3.15 JH hot-dipped galvanised or annular grooved stainless steel nails for fixing either directly into the framing or structural batten.

Leave a 2mm expansion gap in the lap of rebated profiles, ie Rusticated & Bevelback to allow for expansion and contraction.

Boards must be single nail fixed to allow for seasonal movement, with an overlap of 32mm.

Single nail all weatherboard profiles, regardless of size. Nailing boards together will likely result in split boards.

Hand nailing is recommended as nail guns can cause damage to the surface of the board. If a nail gun is used, a non-marking attachment should be used to avoid damage to the surface.

Nails must have a minimum penetration of 35mm into the wall framing or structural batten. Refer drawing CF20 BB44, CF20 BB44+ and DF BB44.

Pre-drill all boards 50mm from the end to avoid end splitting.

Nail holes should be pre-drilled especially in areas around joins and the end of boards. This is to avoid splitting the product.

Location of the nails is to be a maximum overall distance of 42mm from the bottom edge of the board. 32mm minimum overlap and 10mm to the nail fixing point. Aligning the weather grooves.

Nails should be applied at an upward angle of 10degrees to avoid water entering through the fixing point.

All nails should be punched to a depth of no less than 2mm.

As soon as nails are punched below the surface of the weatherboard, they must be filled with an exterior grade filler immediately to prevent moisture uptake in the weatherboards.

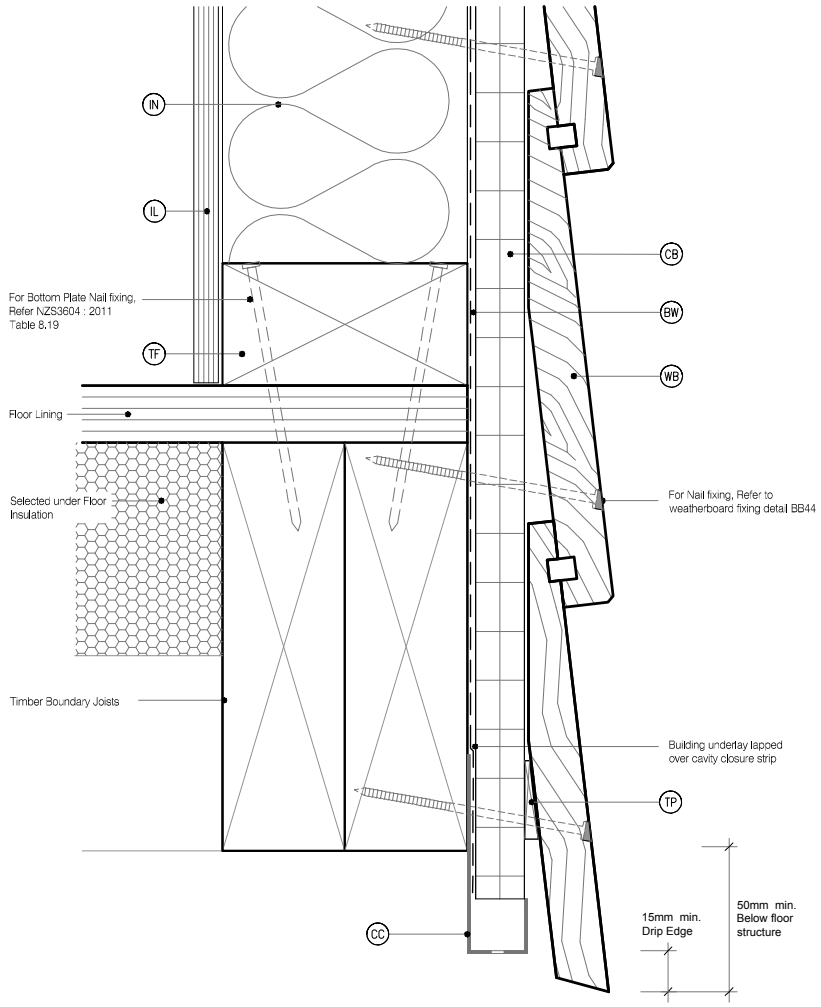
The top board may need to be cut to suit the soffit.

Important note: Timber weatherboards are designed to accommodate thermal, seismic and moisture related movement in the board laps. Each weatherboard is single nailed so that the weatherboards can expand, contract and move independently of each other. KLC does not recommend the use of any sealant/glue being used by the painters under the lap of each board, this inhibits the natural and ongoing movement of the weatherboard.

Bevelback Weatherboard Fixings and Fixing Methods

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23. In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FTZ) FLEXIBLE FLASHING TAPE: Additional underlay of flexible flashing tape lapped over Apron flashing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/ZS4200 with Mesh or Self Supported
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0. Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)



MicoPro® Wood Treatment Technology

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DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Base of Wall, Timber

CODEMARK AQ-026216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018
DRAWING No	REVISION
KLC CF20 BB60	1

3.5 JOINS AND PIPE PENETRATIONS

It is an industry recommendation that all forms of timber treated products, when cut, have a cut-end treatment applied (e.g. a zinc naphthenate-based product like Reseal Clear or Protim) which restores the treated envelope. This refers to MCA, CCA and LOSP treated products.

KLC's manufacturing and tested treating process and the inclusion of the two coat oil based priming system being applied to all of the Generation 2 profiles, KLC recommends that all during the installation process, cut ends, drill holes, rebates and notches must be re-sealed/primed immediately with a suitably approved product.

KLC recommends following best building practices and industry recommendations which includes the use and application of end seal treatment product or alternatively 2 coats of an oil based primer being brush applied.

KLC recommends the use of Koppers "Protim Reseal".

End sealing can be achieved by the application of 2 coats of brush-applied, quality Alkyd (oil based) primer allowed to dry between coats.

Joins

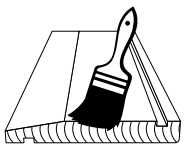
Avoid joining Generation 2 H3.2 weatherboards whenever possible, but if unavoidable use a 45-degree scarf joint directly over studs or Generation 2 H3.2 FJ Cavity Batten. Care must be taken to angle mitre joints away from the prevailing weather, and or use Flat Soakers. Alternatively, a butt join is acceptable using flat soakers.

Face the overlapping board away from the prevailing weather direction using one fixing through the overlapping board (pre-drill the hole to avoid splitting). Re-prime the cut ends.

Nails should be driven and punched below the surface to allow for filling. Prime then fill with an exterior grade wood filler immediately after nailing.

Pipe Penetrations

Refer to drawings BB54 & BB55

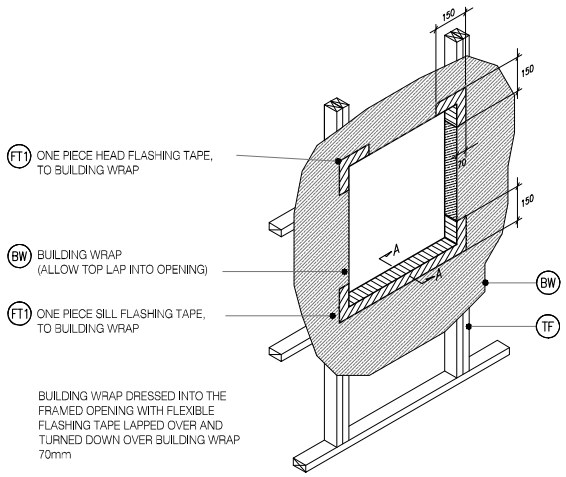


Two coats of an Alkyd (oil based) primer or end sealer.

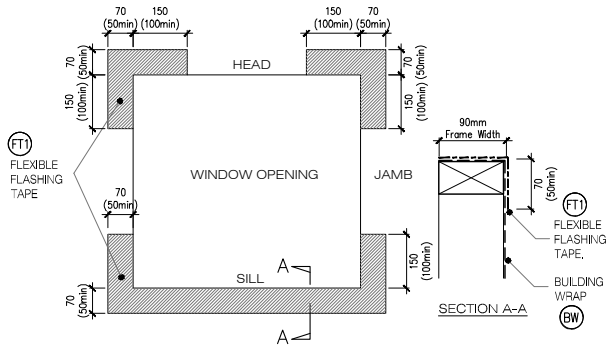
3.6 WALL UNDERLAY AND FLASHING TAPES

Use only underlays that meet the requirements of E2/AS1 Table 23

Refer Drawings BB13, BB23



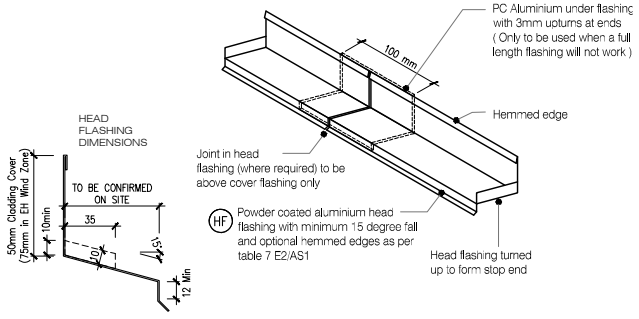
W4 BB13 TYPICAL WINDOW OPENING (FLASHING TAPE)
SCALE : N.T.S



W5 BB13 FLEXIBLE BUILDING WRAP AT OPENING
SCALE : 1 / 5 @ A1, 1 / 10 @ A3

MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. **MicroPro® is environmentally sustainable, is low leaching, low VOC** emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).



ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

W6 BB13 TYPICAL HEAD & FLASHING JOINT
SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF : KLC CF20 BB10-15 - WINDOW DETAILS.dwg
DATE : 18/10/2018

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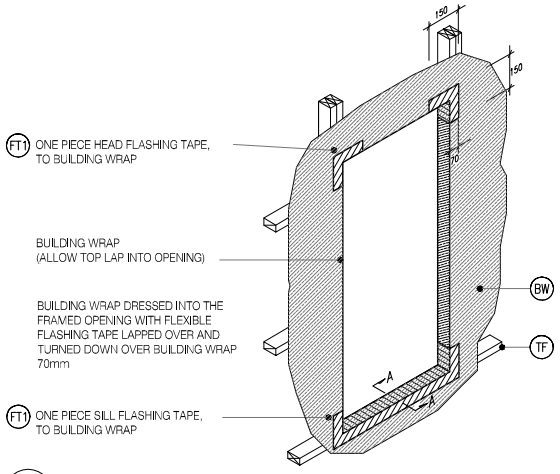
TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Window Flashing Details - Aluminium Joinery

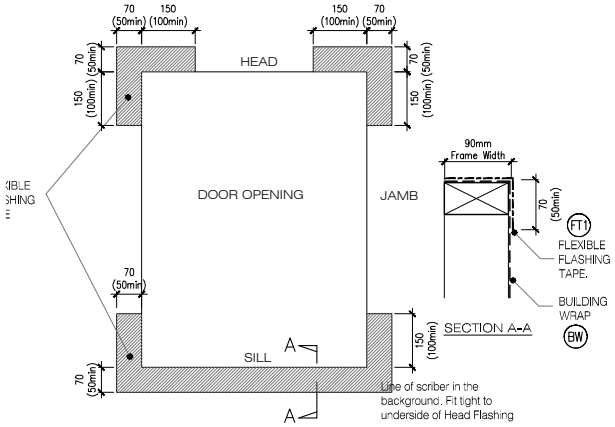
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:4 @ A4	18/10/2018
DRAWING No	REVISION
KLC CF20 BB13	1



D4 BB23 TYPICAL DOOR OPENING (FLASHING TAPE)

SCALE : N.T.S



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3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment :- All cut ends surfaces are to be double coated and **sealed before fixing. With a alkyd (oil based) primer**
5. **MicroPro preservative solution has benefits of reduced corrosivity.** Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
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8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
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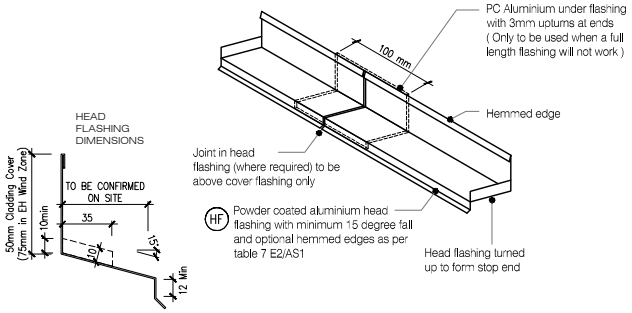
D5 BB23 FLEXIBLE BUILDING WRAP AT OPENING

SCALE : 1 / 5 @ A1, 1 / 10 @ A3



ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

D6 BB23 TYPICAL HEAD & FLASHING JOINT

SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF : KLC CF20 BB20-25 – DOOR DETAILS.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Door Flashing Details - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:4 @ A4	18/10/2018
DRAWING No	REVISION
KLC CF20 BB23	1

3.7 FLASHINGS

Refer to NZS3604 section 4 and E2/AS1 Table 20 for durability requirements and E2/AS1 section 9 for flashing design and fabrication details.

3.8 SEALANTS

All sealants must be suitable for exterior use and while they will assist with providing weathertightness at laps and joins they must not be relied on to provide total protection.

3.9 AIR SEALS

Air seals are a barrier that prevent air flowing into the building. Air seals are required where a hole or penetration through the external cladding occurs – windows, doors, pipes, meter boxes etc. See E2AS1 for complete building air seal requirements.

A foam backing rod of a suitable diameter must be installed in the gap, a sealant to the perimeter that forms a waterproof air seal prior to applying the sealant.

Backing rods and sealants must be used in accordance with the manufacturer's instructions

3.10 WALL CLADDING CAVITIES

If the weathertightness risk score is higher than 6 a drained and ventilated cavity will be required between the underlay and Generation 2 weatherboards.

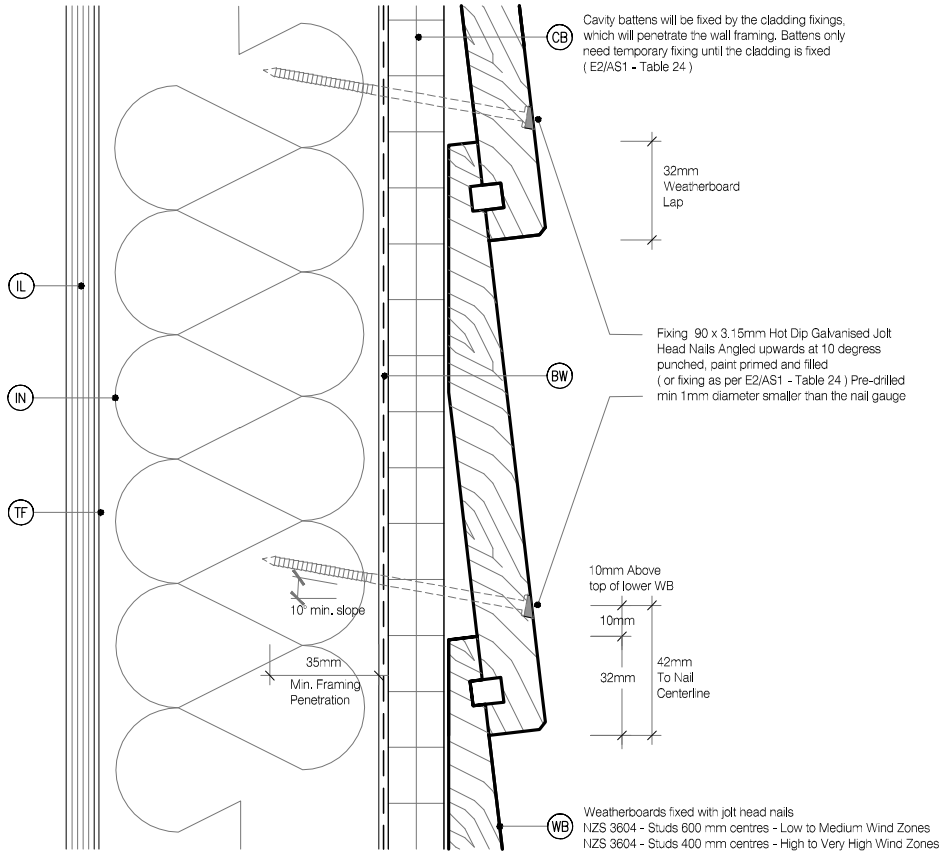
If a cavity is required, structurally fix Generation 2 treated cavity battens to the framing in accordance with BRANZ Bulletin 582. Cavity construction, Including flashing and vermin proofing, must be in accordance with the requirements as set out in E2/AS1 and NZS4229.

Structurally Fixed Cavity Batten (Refer BRANZ Bulletin No 582 & Test Report ST0589)

Refer Drawings CF20 BB44 (see next page)

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



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CAD REF :KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE :18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Weatherboard Fixing

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018
DRAWING No	REVISION
KLC CF20 BB44	1

3.11 EXTERNAL AND INTERNAL CORNER DETAILS

Using 50x2.5mm JH hot dipped galvanised or annular grooved stainless-steel nails, fix the Generation 2 Box Corner two-piece box corner profiles over the Generation 2 weatherboards. Use two nails at each fixing point. There must be a minimum 50mm cover on both faces of the corner.

Fixings must be located 35-40mm above the lower edge of the overlapping board on every fourth board for every 142mm wide weatherboard, every third for the 215 and 187x18 weatherboard and every second for the 230x18 wide weatherboards. For nails near the ends of the corner boards pre-drill the nail holes.

Install a Generation 2 scriber over the weatherboards against the corner boards. Pre-drill holes and using 60x2.8mm (40x18 scriber) or 50x205mm (40x10 scriber) JH hot dipped galvanised or annular grooved stainless-steel nails, fix the scriber firmly against the box corner. Nail at 450mm centres.

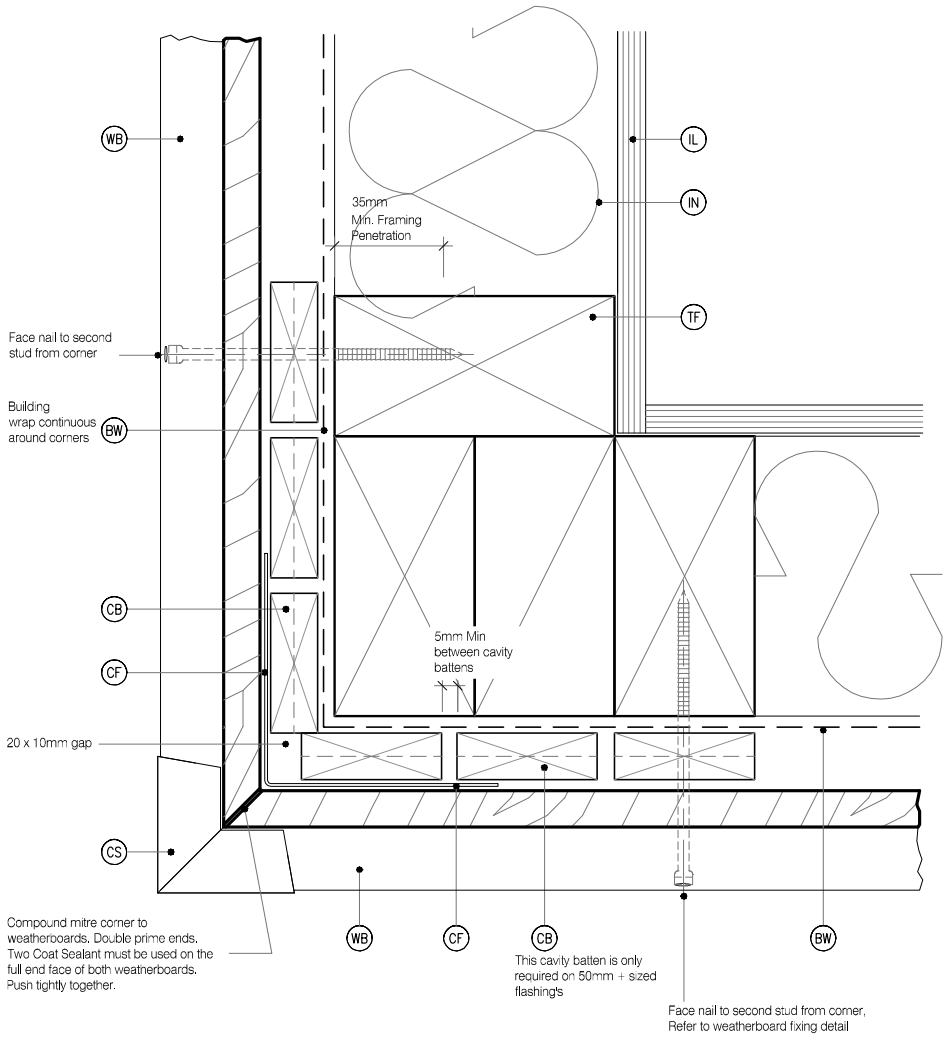
Re-prime the cut ends with two coats of and alkyd (oil based) primer, allowing to dry between coats.

Nails must be hand driven and punched below the surface to allow for filling. Prime then fill with an exterior grade wood filler immediately after nailing.

Refer to drawings BB40, BB41+, BB42 and BB43

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



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CAD REF :KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE :18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME External Corner Soaker

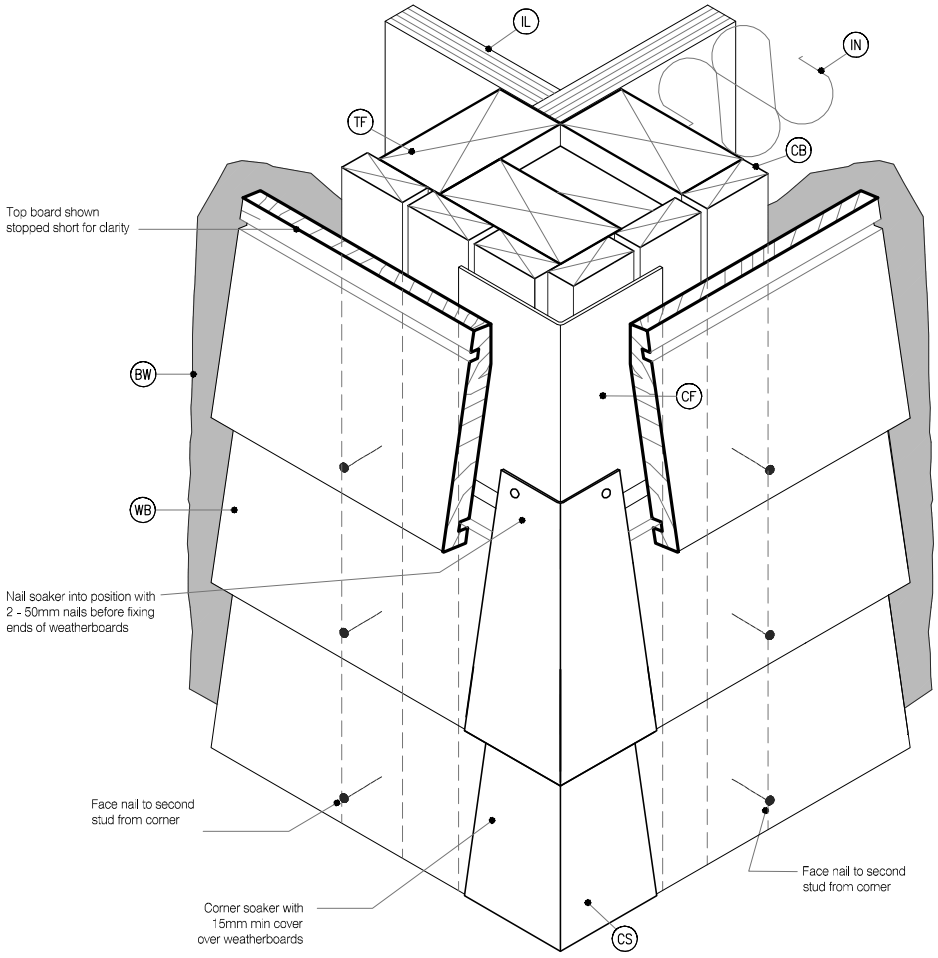
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB40	1

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



Soaker material	Nail material
Copper	Copper or phosphor bronze
Aluminium	Hot dip galvanised
Stainless steel	Stainless steel

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CAD REF :KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE :18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME 3D - External Corner Soaker

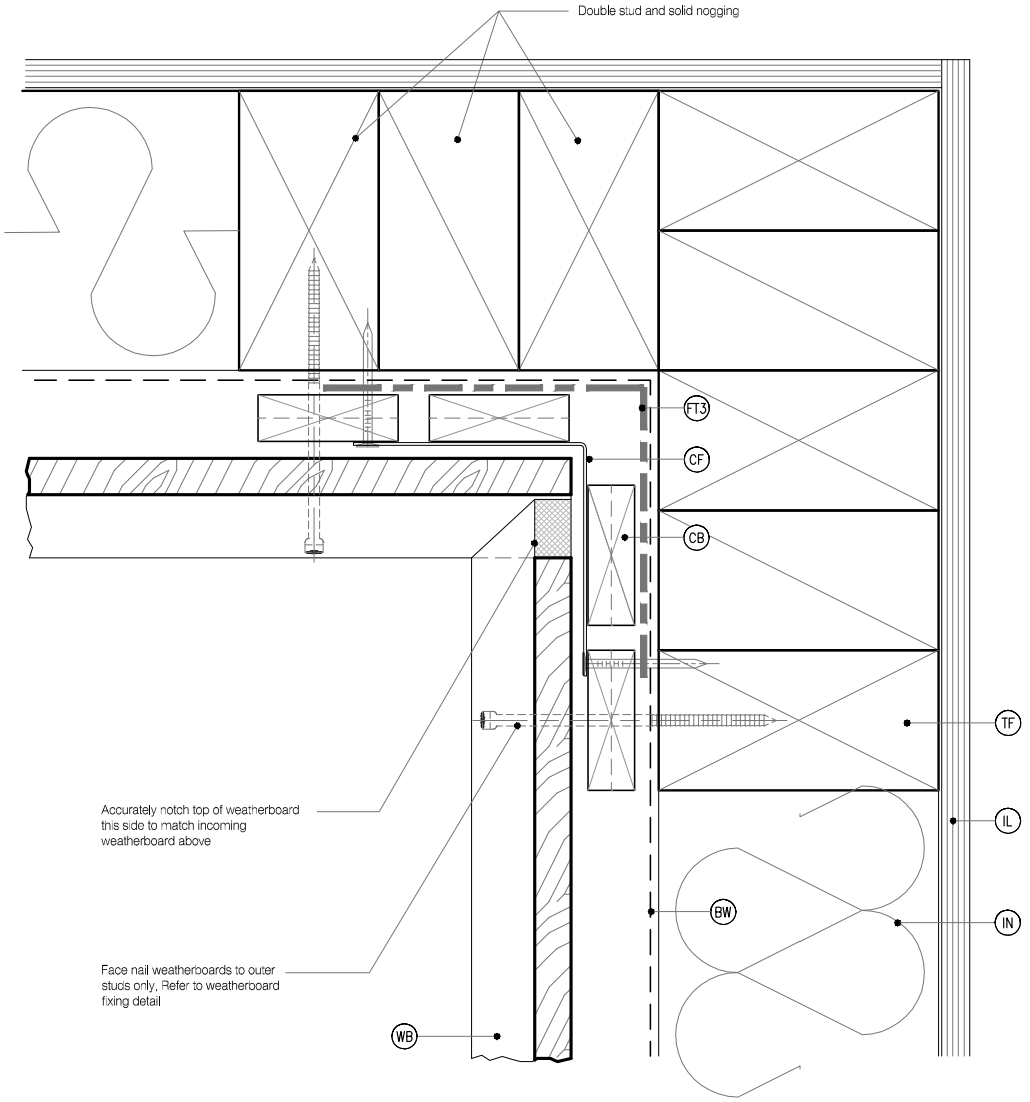
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB41	1

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



DETAIL NOTES:

1. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1
2. Aluminium extrusion must not be continuous over solid floor joists.

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CAD REF :KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE :18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Internal Corner

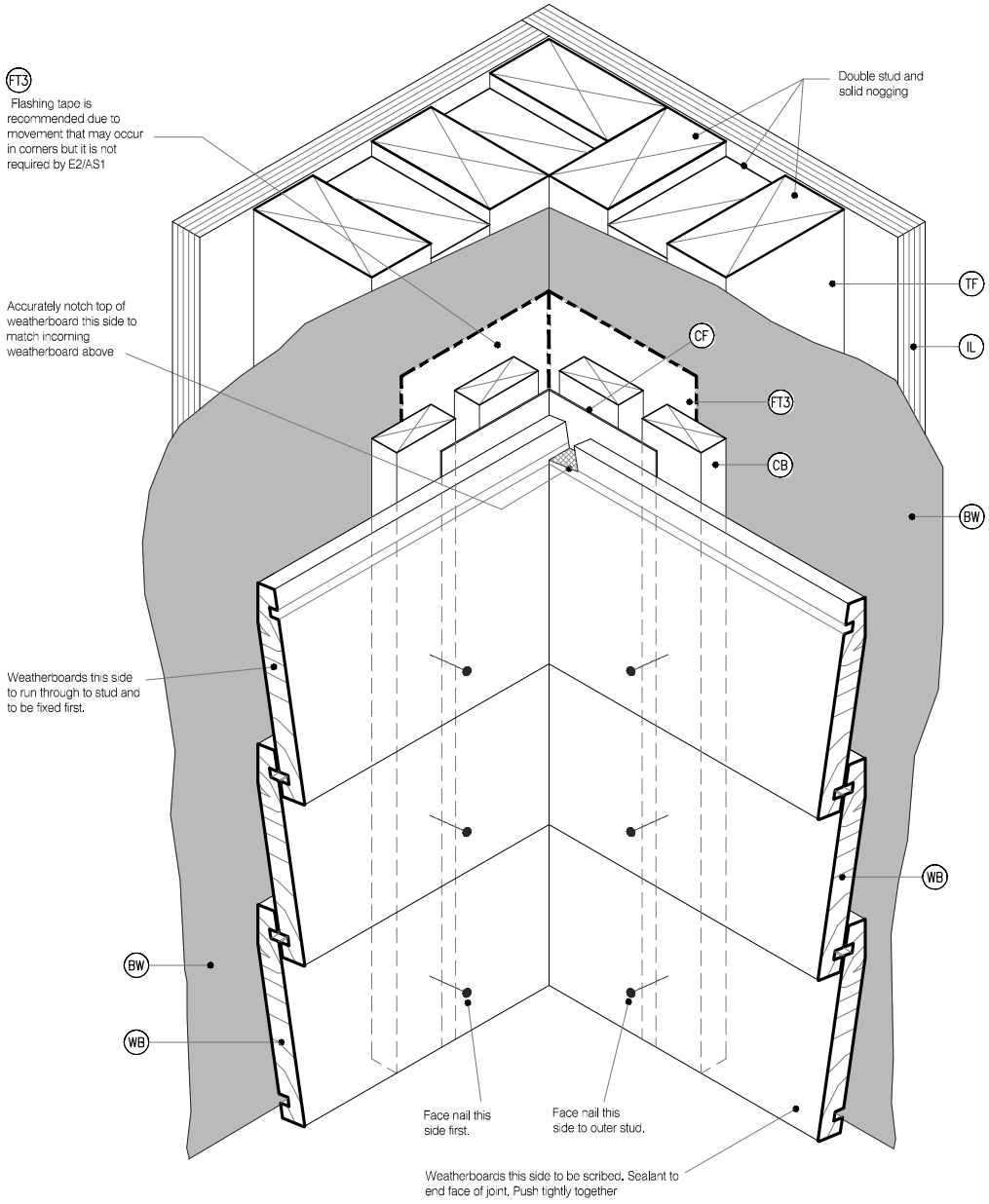
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB42	1

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



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CAD REF :KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE :18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME 3D - Internal Corner

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB43	1

3.12 EXTERNAL AND INTERNAL BOX CORNER DETAILS

Internal corners, direct or cavity fix, must have a flashing behind the cladding that provides a minimum 50mm cover to both faces of the corner. Refer to E2/AS1 for full details. Using 50x2.5mm JH hot-dipped galvanised or annular grooved stainless-steel nails, fix the Generation 2 two piece prefabricated internal box corner over the Generation 2 weatherboards. Use two nails at each fixing point. The Generation 2 internal box corner provides 100mm cover on both faces of the corner.

Fixings must be located 35-40mm above the lower edge of the overlapping board on every fourth board for every 142mm wide weatherboard, every third for the 215 and 187x18 weatherboard and every second for the 230x18 wide weatherboards. For nails near the ends of the corner boards pre-drill the nail holes.

Fit a pre-cut Generation 2 scriber over the weatherboards against the corner boards. Pre-drill holes and using 60x2.8mm (40x18 scriber) or 50x205mm (40x10 scriber) JH hot dipped galvanised or annular grooved stainless-steel nails, fix the scriber firmly against the box corner. Nail at 450mm centres.

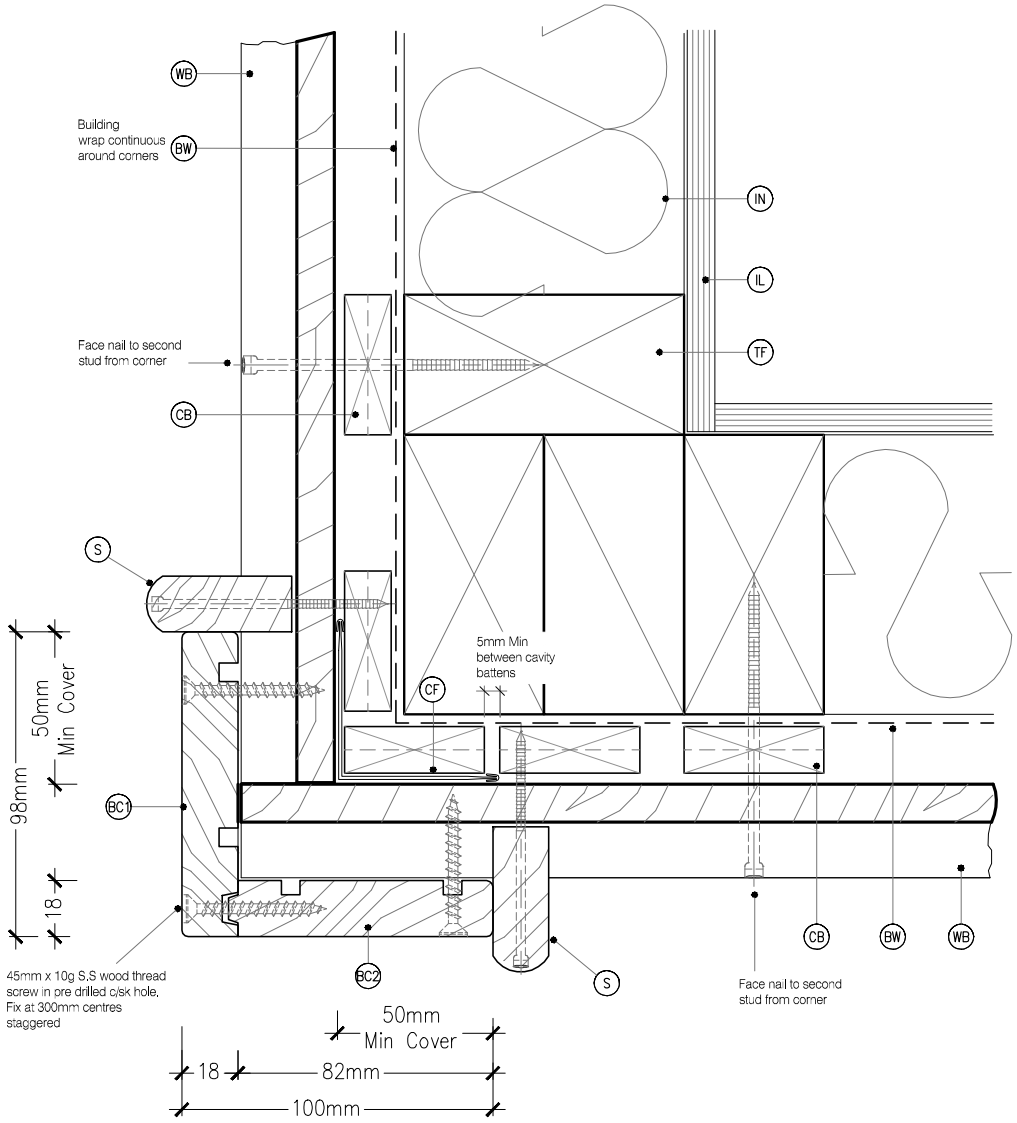
Re-prime the cut ends with two coats of and alkyd (oil based) primer, allowing to dry between coats.

Nails must be hand driven and punched below the surface to allow for filling. Prime then fill with an exterior grade wood filler immediately after nailing.

Refer to drawings BB50, BB51, BB52 and BB53

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

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3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
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9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB50-56 - GENERAL DETAILS 02.dwg
DATE : 18/10/2018

Naturally Better

www.klc.co.nz

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME External Boxed Corner

CODEMARK™ AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB50	1

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
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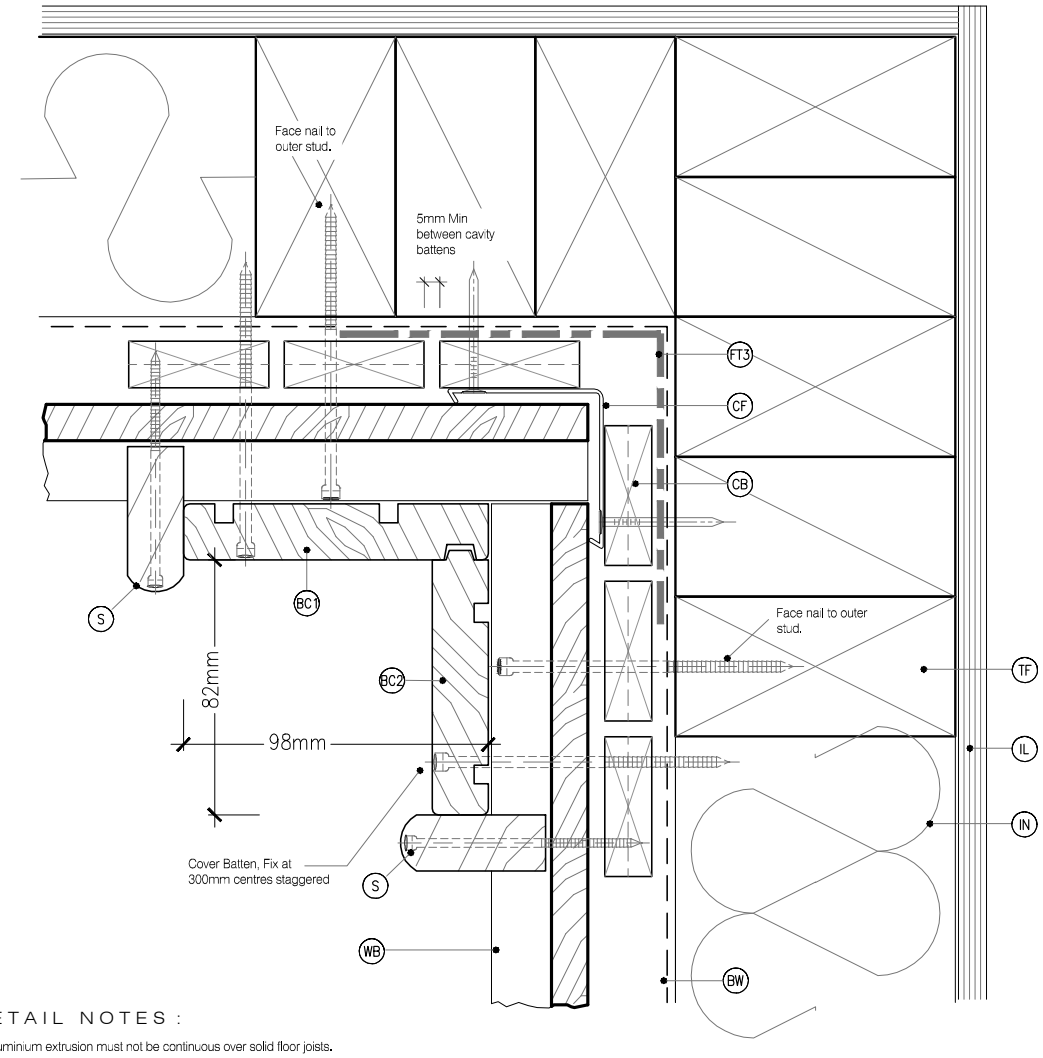
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



DETAIL NOTES:

1. Aluminium extrusion must not be continuous over solid floor joists.
2. Corner Flashing is recommended but not required by E2/AS1
3. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1

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CAD REF :KLC CF20 BB50-56 - GENERAL DETAILS 02.dwg
DATE :18/10/2018

Naturally Better

www.klc.co.nz

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Internal Boxed Corner

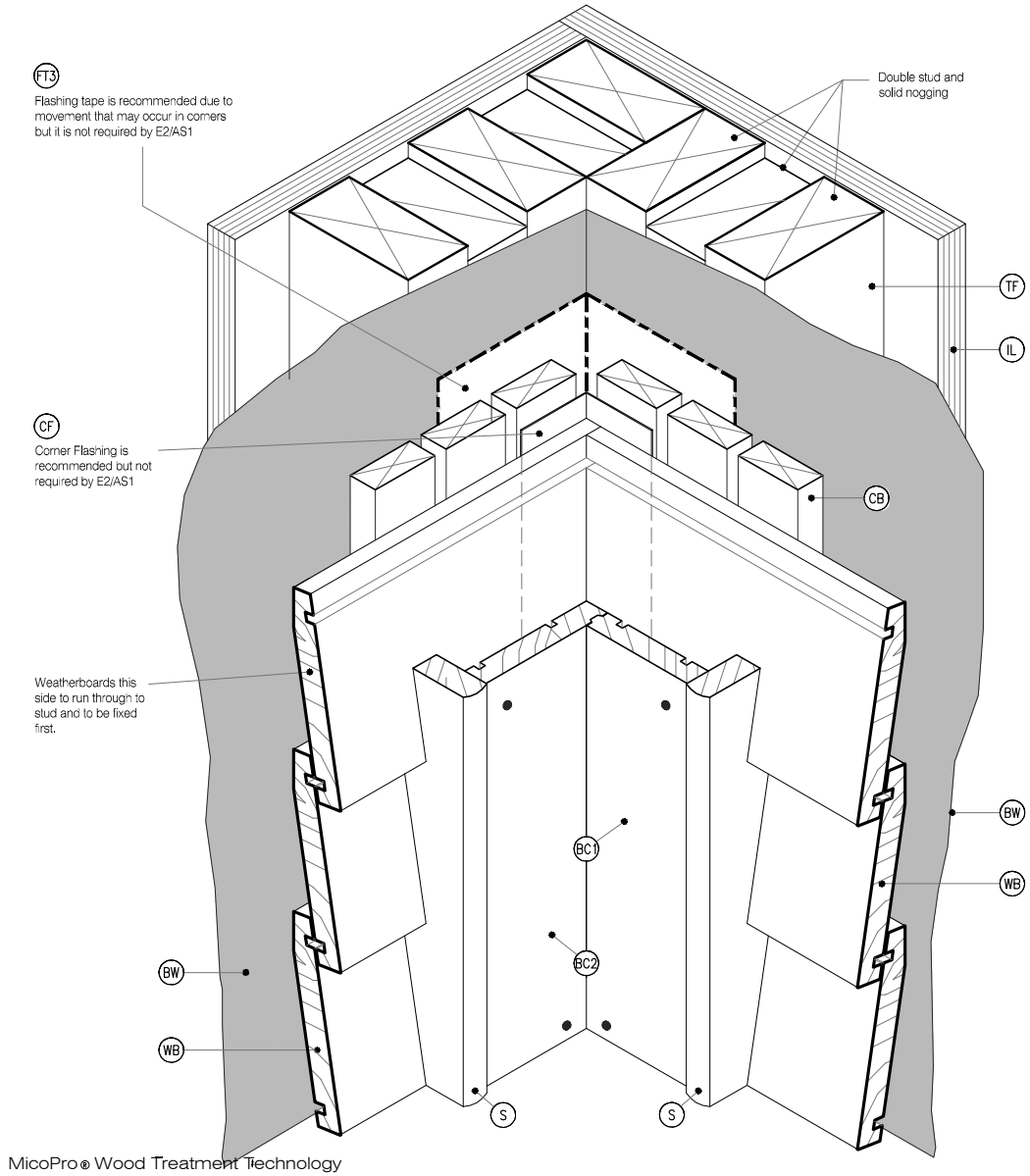
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB52	1

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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CAD REF :KLC CF20 BB50-56 - GENERAL DETAILS 02.dwg
DATE :18/10/2018

KLC Naturally Better

www.klc.co.nz

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME 3D - Internal Boxed Corner

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB53	1

3.13 WINDOWS AND DOORS (ALUMINIUM)

Window and door openings are a high weathertightness risk area an require particular attention to ensure weathertightness is achieved. All window and door openings must be constructed and trimmed in accordance with E2/AS1. All flashings, air seals, underlay and flexible flashing tapes must be in place. For flashing details refer to NZS3604 section 4 and E2/AS1 table 20 for durability requirements and E2/AS1 for flashing design and fabrication details.

As recommended in E2/AS1, window and door suppliers are responsible for head flashings.

Refer to drawings BB10, BB11, BB12 and BB13

All windows must comply with NZS4211 including consideration of building location

3.14 WINDOW AND DOOR SILLS

The Generation 2 weatherboard system requires a full width sill tray for direct fixed windows and doors, which meets the requirements of E2/AS1.

In a cavity fix application, all doors and windows with a trim opening wider than 600mm require an appropriate sill support bar conforming to EMS, paragraph 9.1.10.5

Refer to drawings BB11, BB21, BB22, BB23

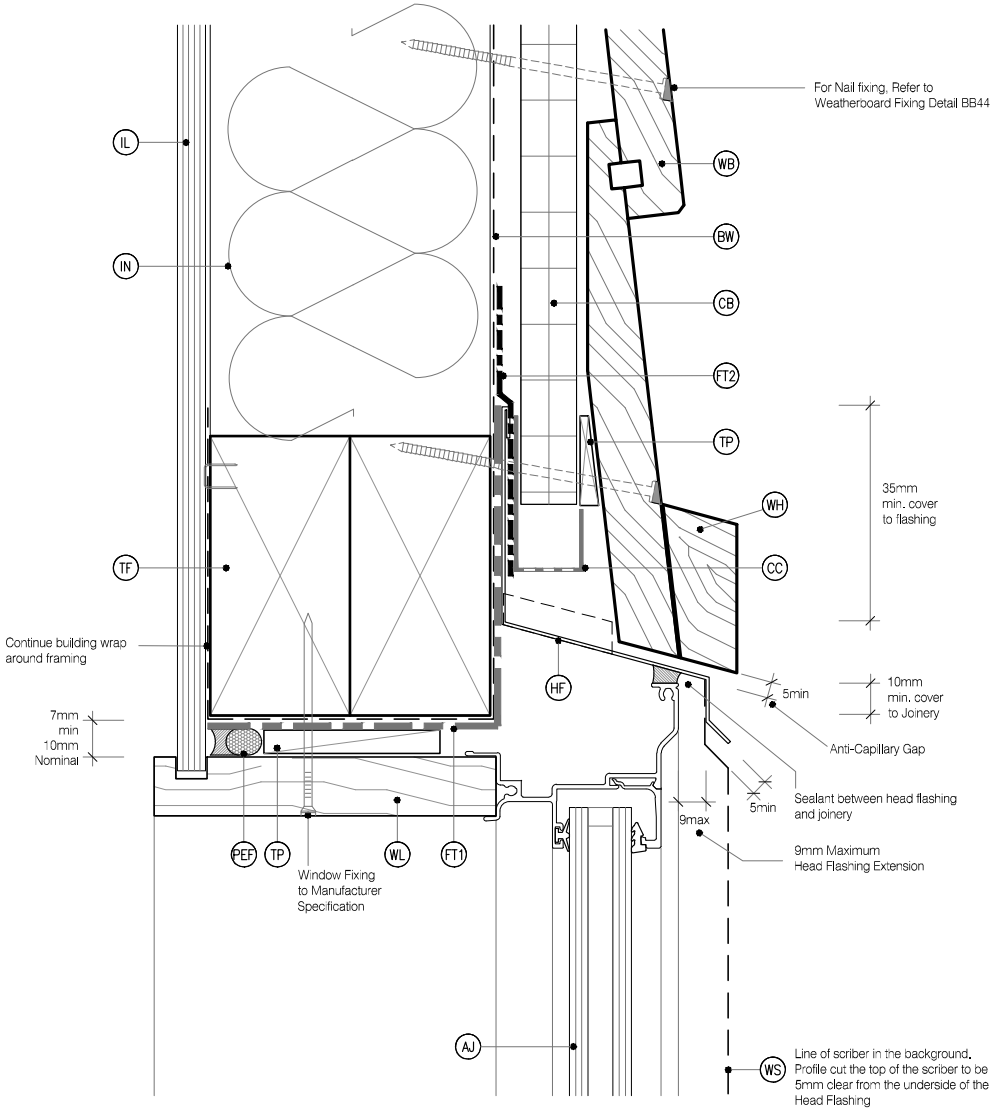
3.15 WINDOW AND DOOR HEADS

Direct and cavity fixed aluminium windows and doors require a flashing that meets the requirements of E2/AS1. The flashing must be fitted behind the cladding with a 5mm gap between the bottom edge of the cladding and the horizontal surface of the flashing.

Refer to drawings BB10 and BB20 (over page)

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



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CAD REF :KLC CF20 BB10-15 - WINDOW DETAILS.dwg
DATE :18/10/2018

KLC Naturally Better

www.klc.co.nz

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Window Head Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB10	1

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
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- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
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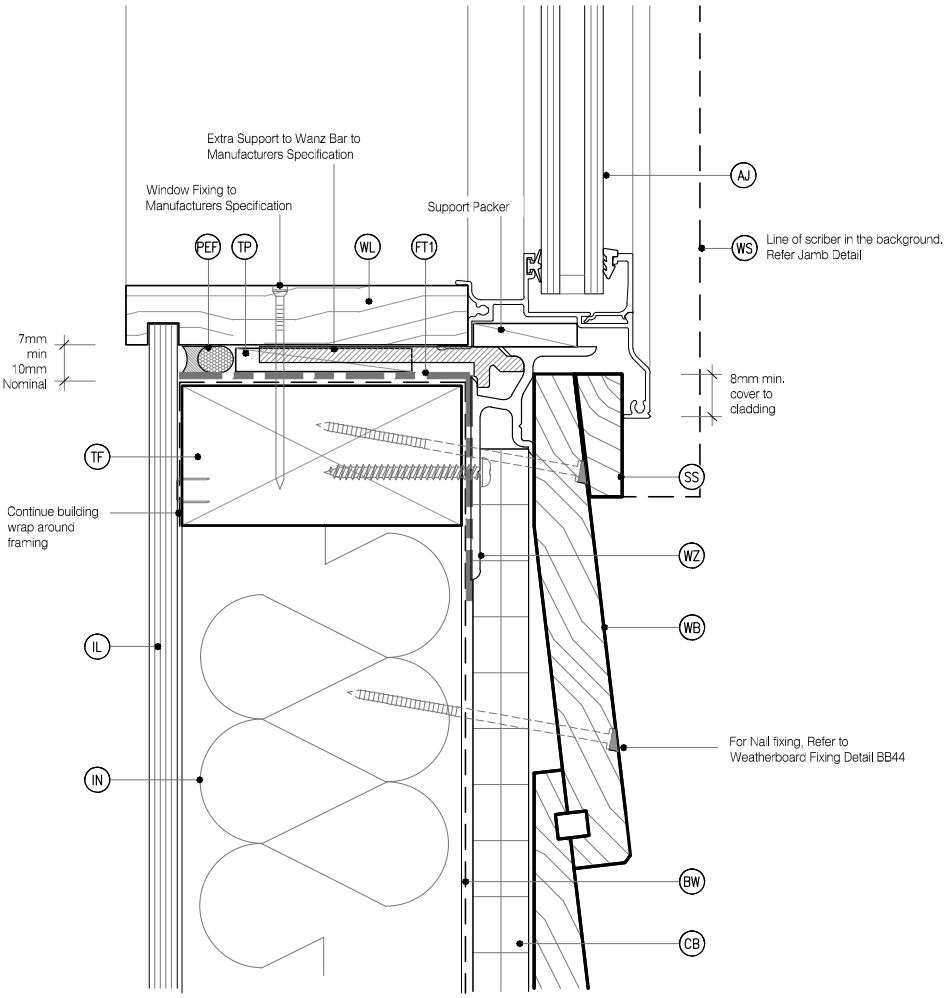
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



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CAD REF :KLC CF20 BB10-15 - WINDOW DETAILS.dwg
DATE :18/10/2018

KLC Naturally Better

www.klc.co.nz

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Window Sill Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB11	1

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
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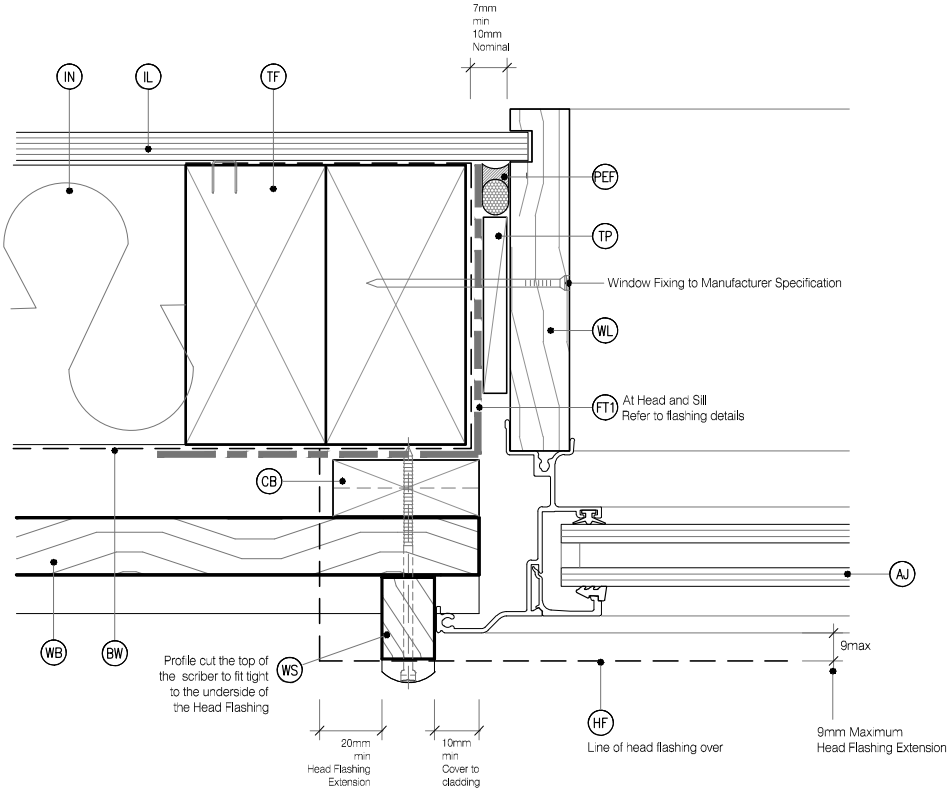
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



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CAD REF :KLC CF20 BB10-15 - WINDOW DETAILS.dwg
DATE :18/10/2018

KLC Naturally Better

www.klc.co.nz

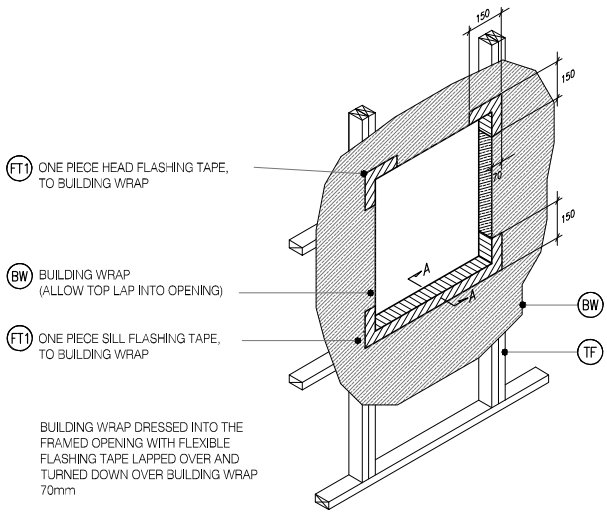
TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Window Jamb Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

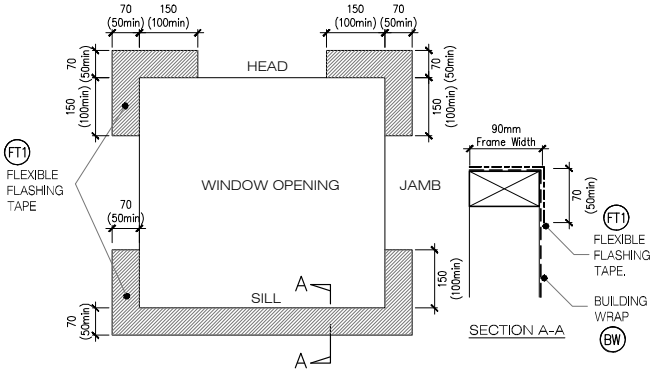
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB12	1



W4 BB13 TYPICAL WINDOW OPENING (FLASHING TAPE)

SCALE : N.T.S



W5 BB13 FLEXIBLE BUILDING WRAP AT OPENING

SCALE : 1 / 5 @ A1, 1 / 10 @ A3

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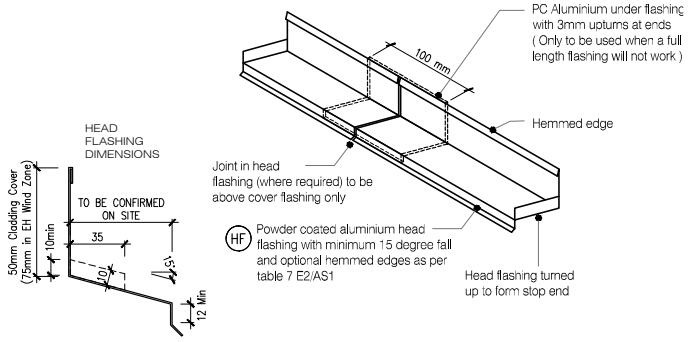
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steal fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. **MicroPro® is environmentally sustainable, is low leaching, low VOC** emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).



ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

W6 BB13 TYPICAL HEAD & FLASHING JOINT

SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF :KLC CF20 BB10-15 - WINDOW DETAILS.dwg
DATE :18/10/2018

KLC Naturally Better

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Window Flashing Details - Aluminium Joinery

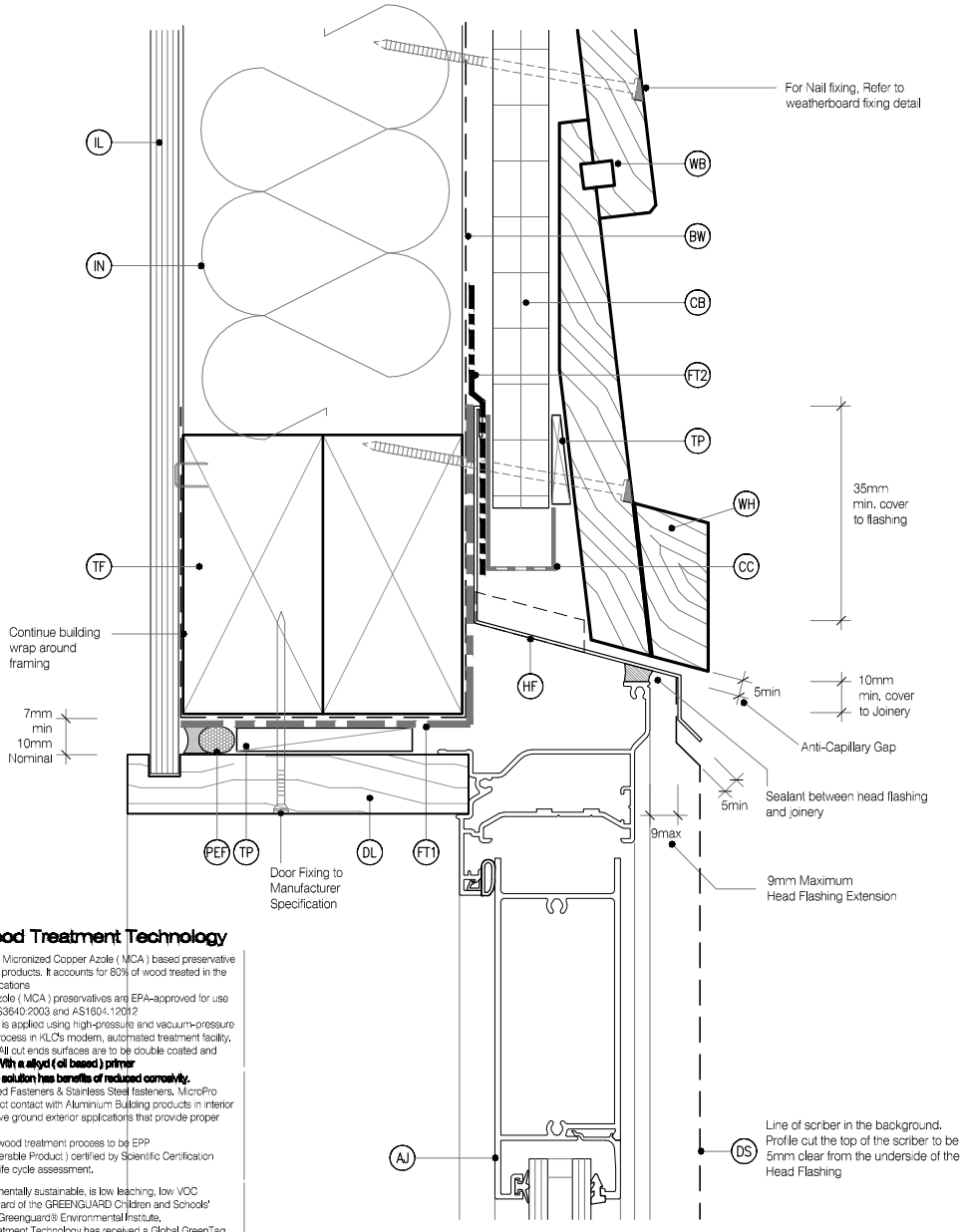
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:4 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB13	1

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in door perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile
- (DL) DOOR LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (DS) DOOR SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber. 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

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3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and **sealed before fixing. With a alkyd (oil based) primer**
5. **MicroPro preservative solution has benefits of reduced corrosivity.** Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF :KLC CF20 BB20-25 - DOOR DETAILS.dwg
DATE :18/10/2018

KLC Naturally Better

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Door Head Detail - Aluminium Joinery

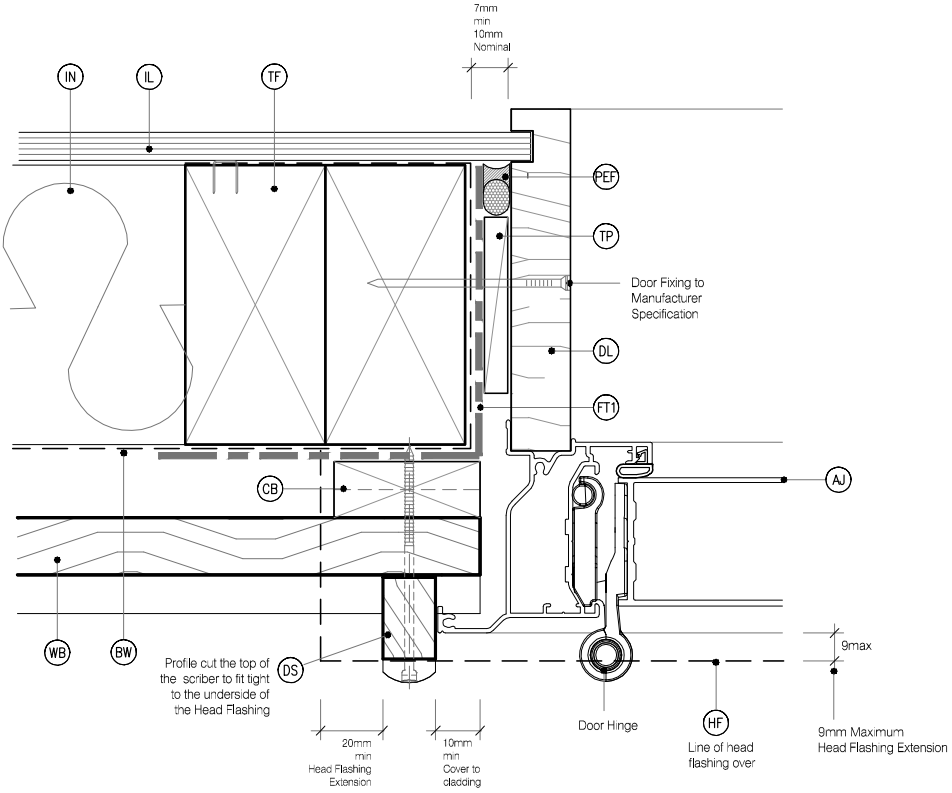
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB20	1

LEGEND:

- PEF: PEF ROD BACKING: Foam backing rod with sealant to cavity in door perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- AJ: ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- IL: INTERNAL LINING: Selected Internal Lining
- BW: BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CC: CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- CB: CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- FT1: FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- FT2: FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- TF: TIMBER FRAME: H1.2 min treated timber framing
- WB: WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- IN: INSULATION: Selected Insulation
- HF: HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- TP: TIMBER PACKER: MicroPro H3.2 Treated Packer
- SS: SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile
- DL: DOOR LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- WH: WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- WZ: WANZ SUPPORT: Provide window support as required by joinery manufacturer
- TP: TIMBER PACKER: MicroPro H3.2 Treated Packer
- DS: DOOR SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber. 40x18 or 65x18 depending on weatherboard size



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CAD REF :KLC CF20 BB20-25 - DOOR DETAILS.dwg
DATE :18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Door Jamb Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

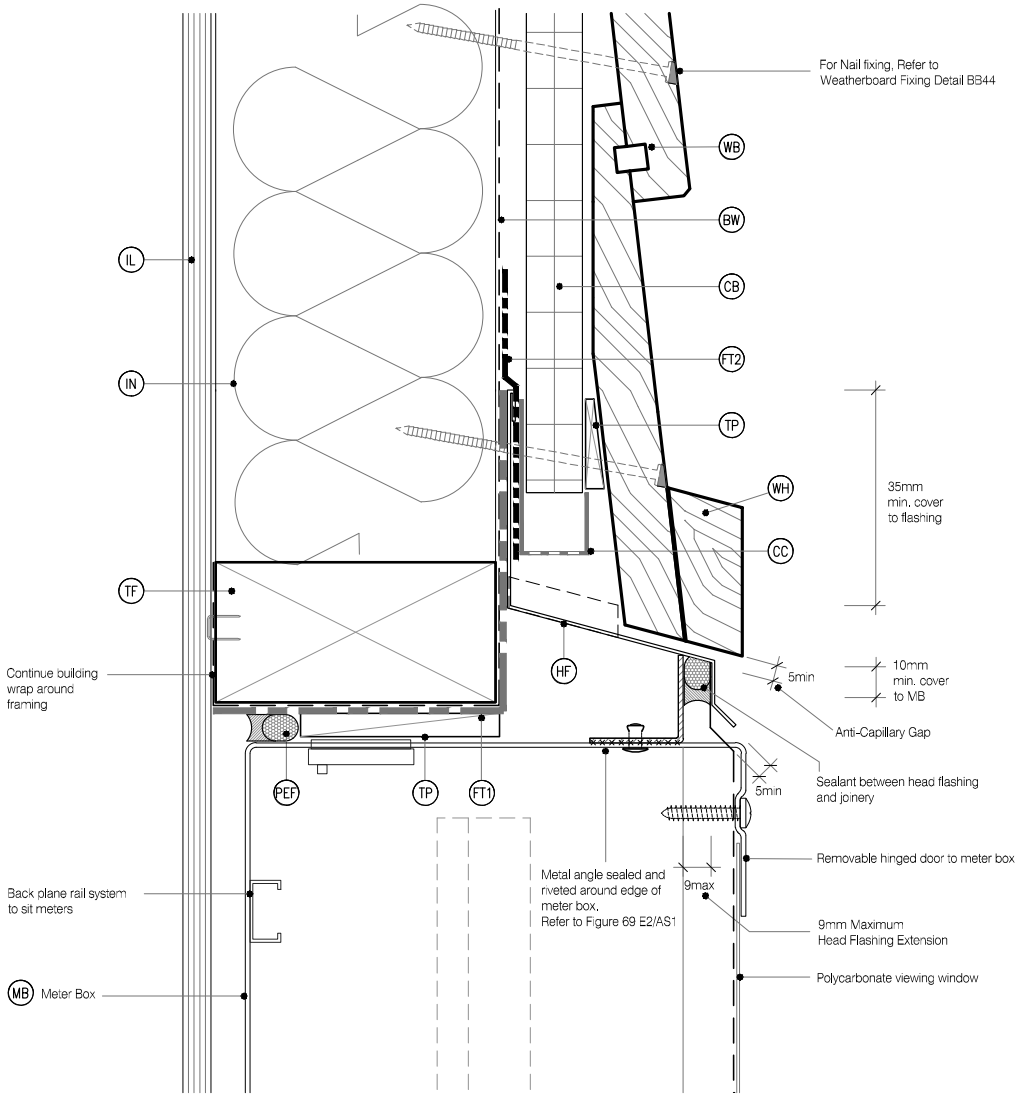
DRAWING No	REVISION
KLC CF20 BB22	1

3.16 METER BOX

Refer to Drawings BB30, BB31, BB32 and BB33

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

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CAD REF : KLC CF20 BB30-35 - METER BOX.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Meter Box - Head Detail

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB30	1

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
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- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
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- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
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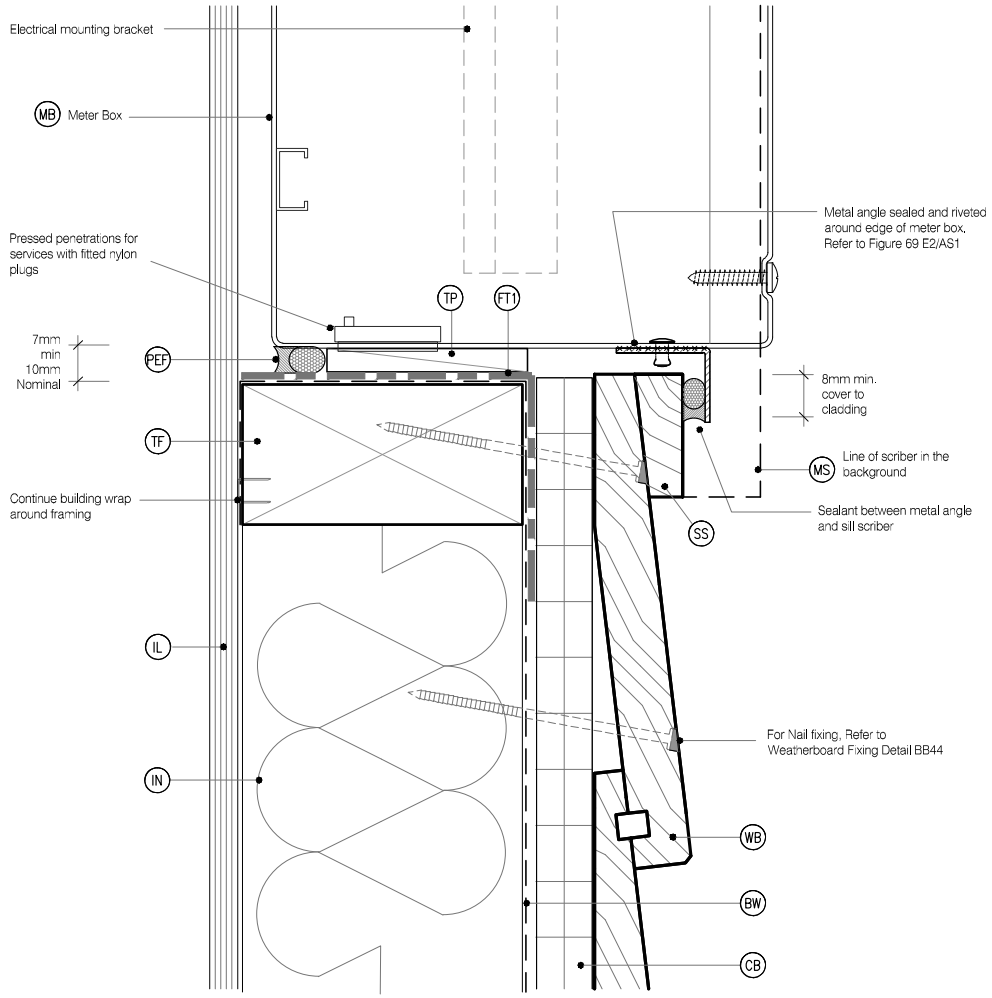
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



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CAD REF : KLC CF20 BB30-35 - METER BOX.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Meter Box - Sill Detail

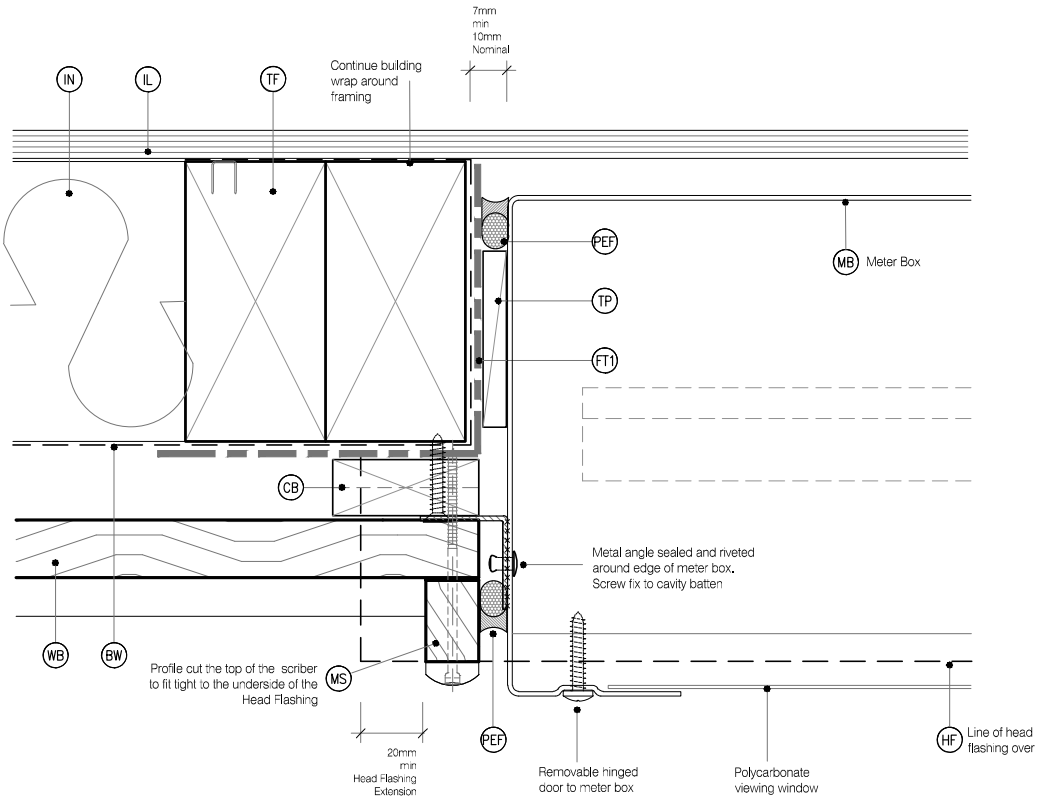
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB31	1

LEGEND:

- PEF: PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- AJ: ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- IL: INTERNAL LINING: Selected Internal Lining
- BW: BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- CC: CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- CB: CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- FT1: FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- FT2: FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- TF: TIMBER FRAME: H1.2 min treated timber framing
- WB: WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- IN: INSULATION: Selected Insulation
- HF: HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- TP: TIMBER PACKER: MicroPro H3.2 Treated Packer
- SS: SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- WL: WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- WH: WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- WZ: WANZ SUPPORT: Provide window support as required by joinery manufacturer
- WS: WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



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CAD REF : KLC CF20 BB30-35 - METER BOX.dwg
DATE : 18/10/2018

KLC Naturally Better

www.klc.co.nz

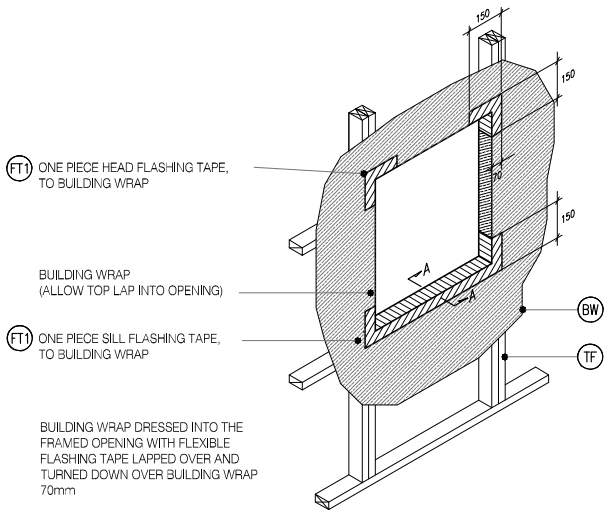
TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Meter Box - Jamb Detail

CODEMARK AQ-020216-CMNZ

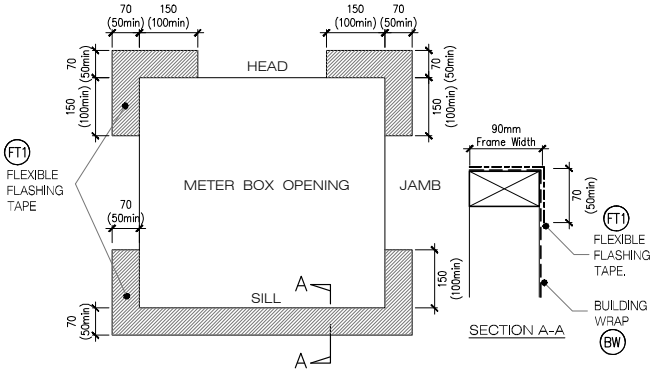
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB32	1



M4 BB33 TYPICAL METER BOX OPENING (FLASHING TAPE

SCALE : N.T.S



M5 BB33 FLEXIBLE BUILDING WRAP AT OPENING

SCALE : 1 / 5 @ A1, 1 / 10 @ A3

MicoPro® Wood Treatment Technology

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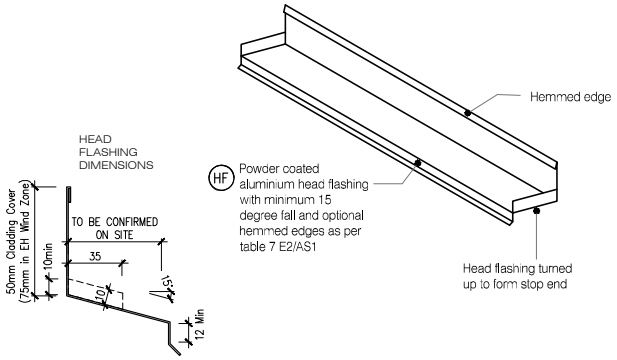


ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

M6 BB33 TYPICAL HEAD & FLASHING JOINT

SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF :KLC CF20 BB30-35 - METER BOX.dwg
DATE :18/10/2018

KLC Naturally Better

www.klc.co.nz

DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Meter Box - Flashing Details

CODEMARK AQ-020216-CMNZ

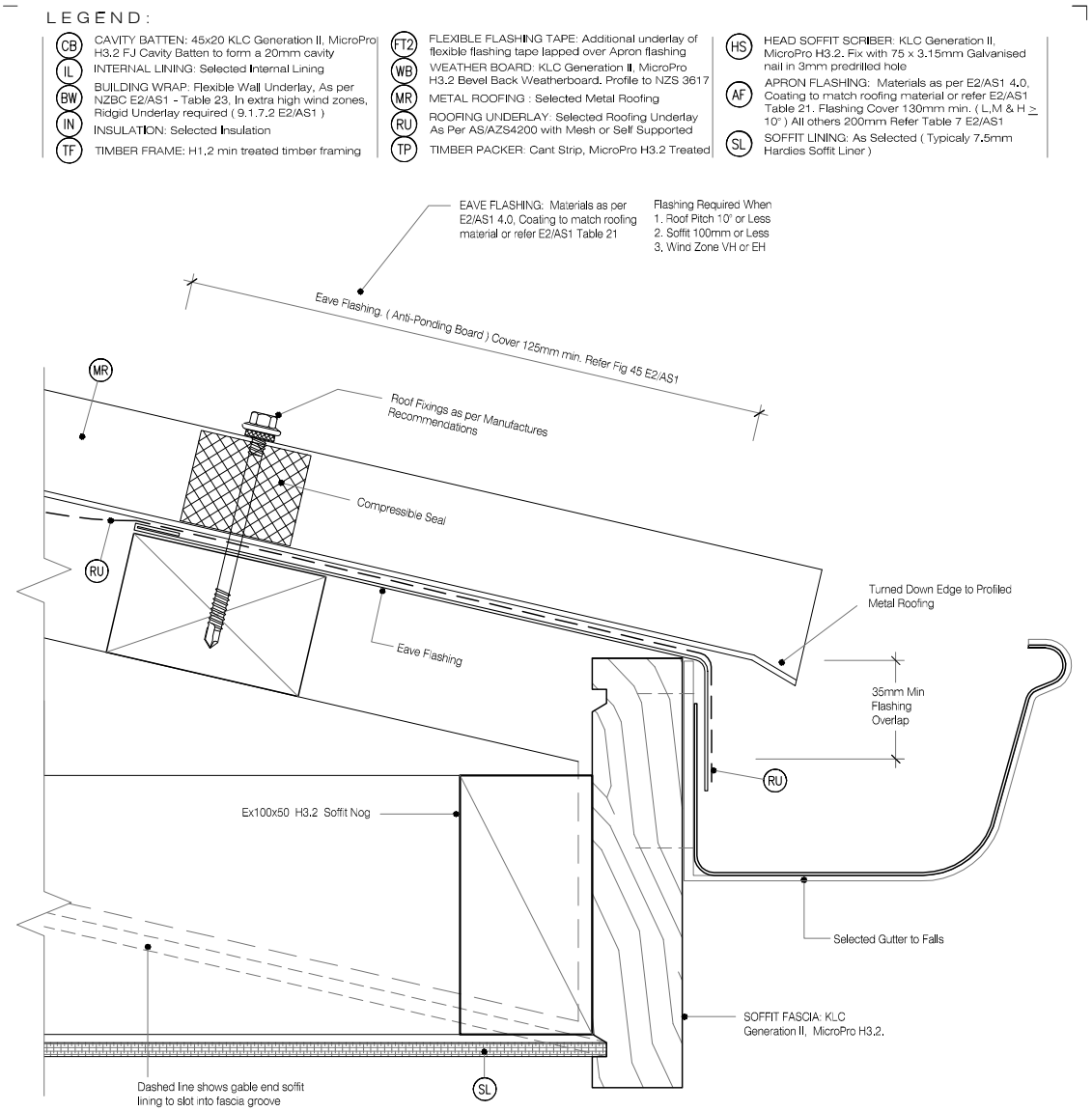
DRAWING SCALE	ISSUE DATE
1:4 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB33	1

FASCIA INSTALLATION

As an alternative to nail fixing, fascia can be screwed onto rafter ends as wide as is practical with wide head (10mm) Stainless steel screws, slightly countersunk. Screws should be a min. 75mm long.

Refer to drawing BB63



MicoPro® Wood Treatment Tiechnology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.12012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB60-66 - GENERAL DETAILS 03.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Soffit Detail at Fascia

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018
DRAWING No	REVISION
KLC CF20 BB63	1

5 Maintenance

KLC Generation 2 H3.2 products have a premium factory applied alkyd primer and undercoat applied in two separate coats.

- All painting must be carried out in a good tradesman-like manner and in accordance with AS/NZS 2311 2009. Please also refer to “BRANZ Good Practice Guide to Exterior Coating”.
- Do not use a sealant at the lap of each board. As radiata is a natural product and will expand and contract in temperature changes – the use of a sealant will inhibit this natural movement and affect the overall finish.
- Do not paint Generation 2 H3.2 weatherboards if the moisture content is over 15%.
- Remove any dirt and surface contamination by sanding and dusting down. Prime immediately any exposed bare timber with a premium exterior alkyd primer.
- Darker colours will absorb heat from the sun and may cause excessive movement, distortion, cracking and possible resin bleed. Light colours reflect the suns heat.
- The KLC warranty will be void if dark colours with a Light Reflectance Value (LRV) less than 45 are used.
- KLC Limited recommend an application of two coats of quality exterior house paint at a rate no greater than 12m2 per litre per coat.

Top Coat Light Reflectance Values as recommended by KLC

The significance of Light Reflectance Values is now being recognized by the building industry.

When paint is exposed to sunlight it absorbs and reflects radiant heat (as well as UV light).

- Sunlight energy is made up of 44% visible light, 5% ultra violet light, 51% Infra-red light

It's not only radiant heat warming up the paint film that is the problem. Damage is caused by temperature changes (i.e. from hot sun, cold to cloudy sky) causing the paint film to go through a process of heating up then cooling down again resulting in changes in dimensional stability of the timber substrate. Increases in the core temperature of the timber substrate can also cause resins to mobilise and leach through the paint film. This is known as resin bleed.

Light paint colours with a high light reflectance (and therefore a high LRV over 45) allow less free radicals to be released, which means the paint film and substrate will last longer. Correspondingly dark colours with a lower light reflectance allow more heat to be absorbed, therefore causing more damage to the surface and resulting in reduced life for the paint film.

Resene Cool Colour Technology

- Resene Cool Colour technology reduces the amount of Infra-red heat absorption only into the substrate (it does not have an effect on Visible light nor Ultra Violet which equates to 49% of Sunlight energy)
- Resene Cool Colour technology works best for Darker colours where Black tinter is used in the colour
- When using Resene Cool Colour the surface will still remain warm/hot to touch however less heat is being absorbed thru into substrate
- LRV's are only a measure of visible colour, not heat absorption which is better measured by TSR (Total Solar Reflectance) therefore LRV's are not altered when using Resene Cool Colours as the colour is the same (albeit that a Resene Cool Colour will perform like a colour with a higher LRV)
- Resene advise customers that the use of Resene Cool Colour technology does not alter the LRV of the colour therefore Suppliers/Manufacturers of substrates own guidelines on colour choice should always be followed unless that Supplier/ Manufacturer advises otherwise.
- Use of Dark colours accentuates the aesthetic of the issues with movement/shrinkage in weatherboards where lighter colours are often far less obvious.

KLC recommend choosing a colour with an LRV of 45 or higher for use on all KLC timber products.

It is the responsibility of the home owner to ensure that annual maintenance is carried out. Maintenance should be carried out every 12 months. In some cases, where a home is coastal this may be required more regularly eg. 6 monthly.

Maintenance Checklist

1. Wash all exterior surfaces using a low pressure wash system to remove dust, dirt and other contaminants.
   - Do not uses a high pressure washing system eg water blaster
   - If the washing does not remove stubborn areas of mold or dirt use a soft brush or broom and an appropriate cleaning agent to remove these deposits. Check with the paint manufacturer and read the directions on the product to apply the cleaning agent.
2. Once the building is clean and the surfaces have been inspected for damage, wear and tear and paint coating degrade then repairs and must be undertaken immediately.
   - If the paint surface has been damaged, then:
   - Remove all damaged paint, sand back if required
   - Apply a quality primer on any bare timber
   - Once the primer has dried apply 2 top coats of a quality top coat paint.
3. It is a general rule that timber weatherboard homes should be repainted every 10 years if the initial coating product used was of

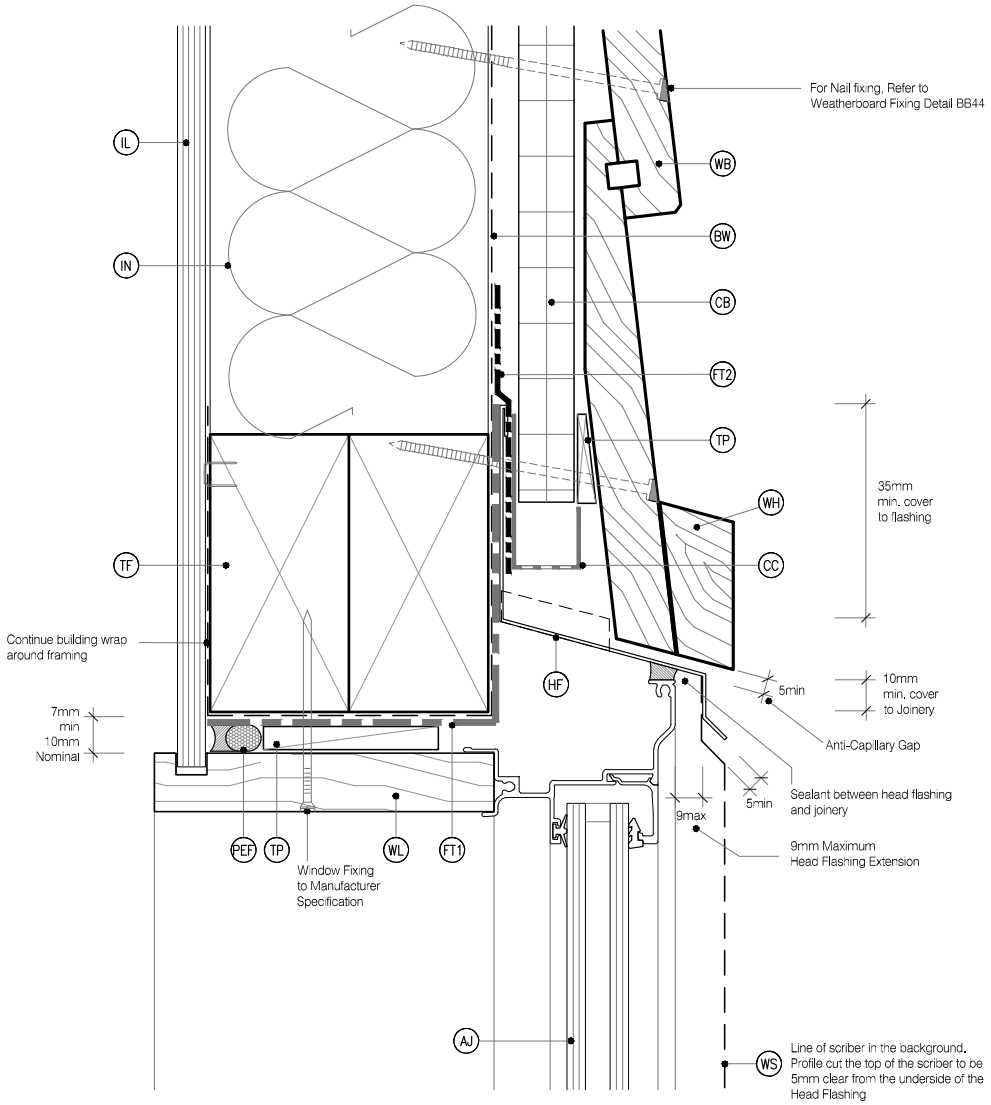
Cavity Fix

Direct Fix

KLC CF20 BB10 WINDOW DETAILS

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

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2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS9640:2003 and AS1604.12012
3. MicoPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute,
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Bulding compliance,
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB10-15 - WINDOW DETAILS.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Window Head Detail - Aluminium Joinery

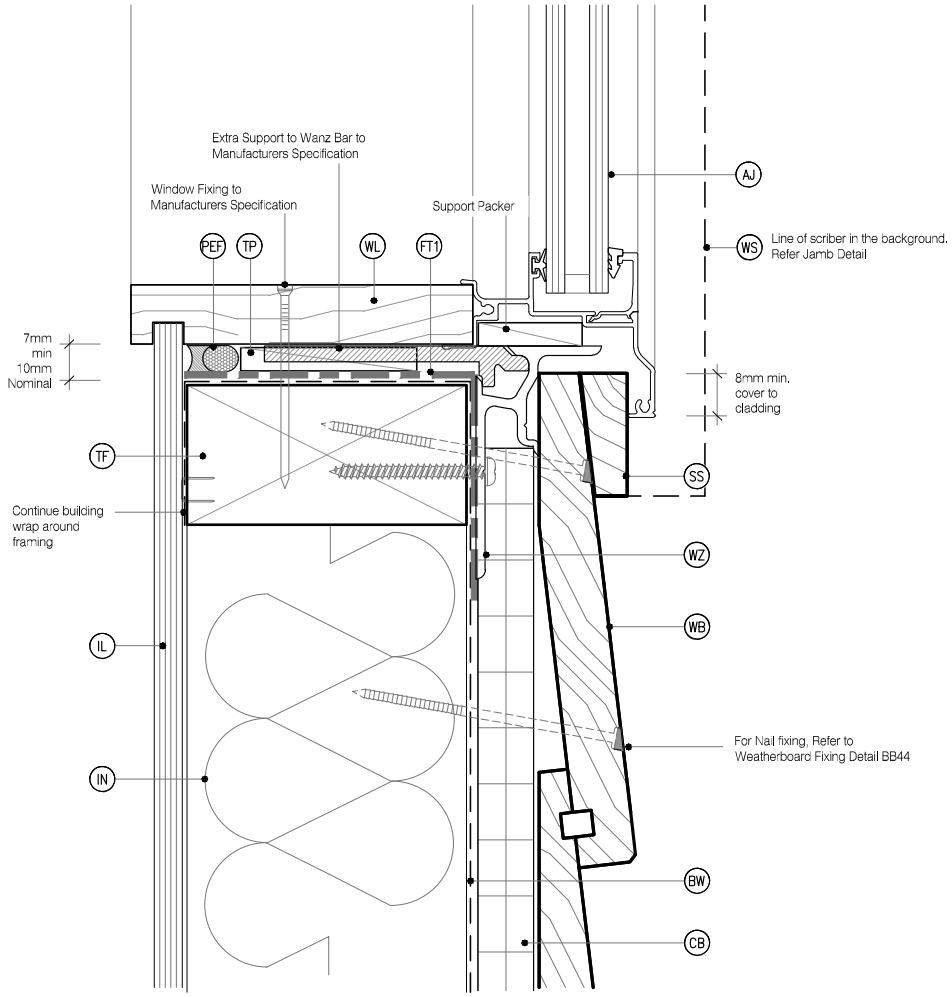
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018
DRAWING No	REVISION
KLC CF20 BB10	1

KLC CF20 BB11 WINDOW DETAILS

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II. MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II. MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II. MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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CAD REF :KLC CF20 BB10-15 - WINDOW DETAILS.dwg
DATE :18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Window Sill Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB11	1

KLC CF20 BB12 Window Details

LEGEND :

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
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- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
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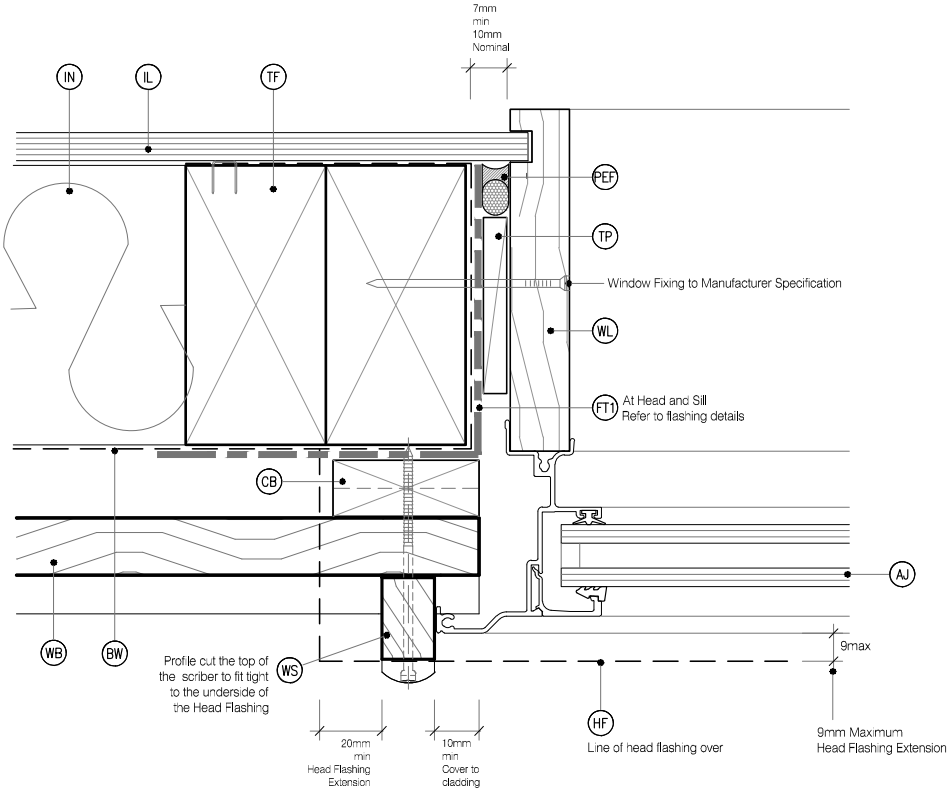

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CAD REF : KLC CF20 BB10-15 - WINDOW DETAILS.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

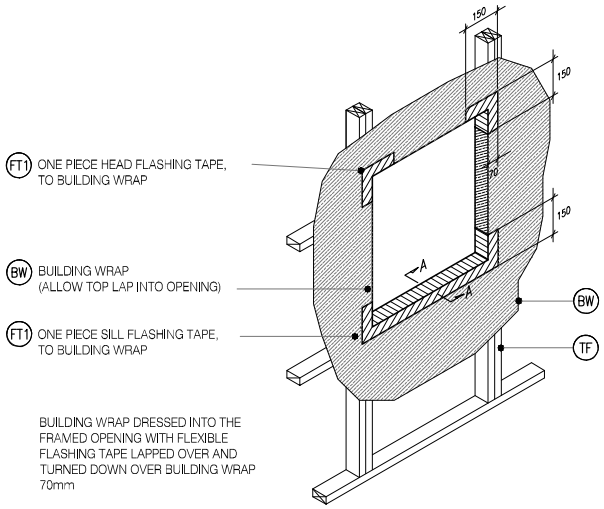
NAME Window Jamb Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

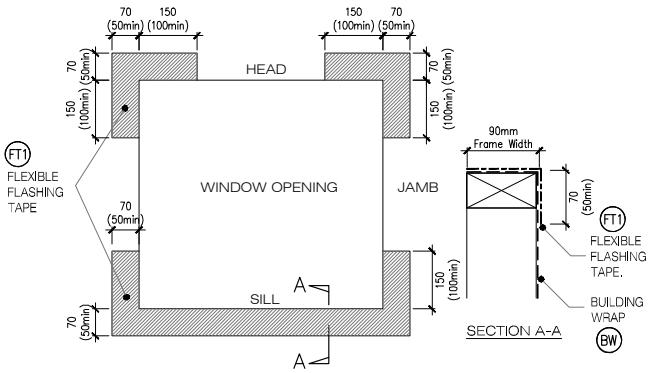
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB12	1

KLC CF20 BB13 Window Details



W4 BB13 TYPICAL WINDOW OPENING (FLASHING TAPE)
SCALE : N.T.S



W5 BB13 FLEXIBLE BUILDING WRAP AT OPENING
SCALE : 1 / 5 @ A1, 1 / 10 @ A3

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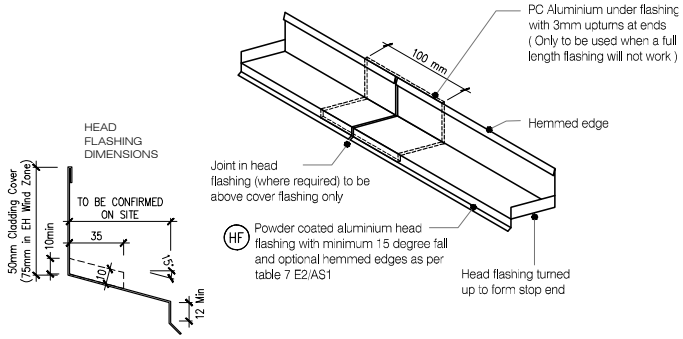

ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

W6 BB13 TYPICAL HEAD & FLASHING JOINT
SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF : KLC CF20 BB10-15 - WINDOW DETAILS.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Window Flashing Details - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

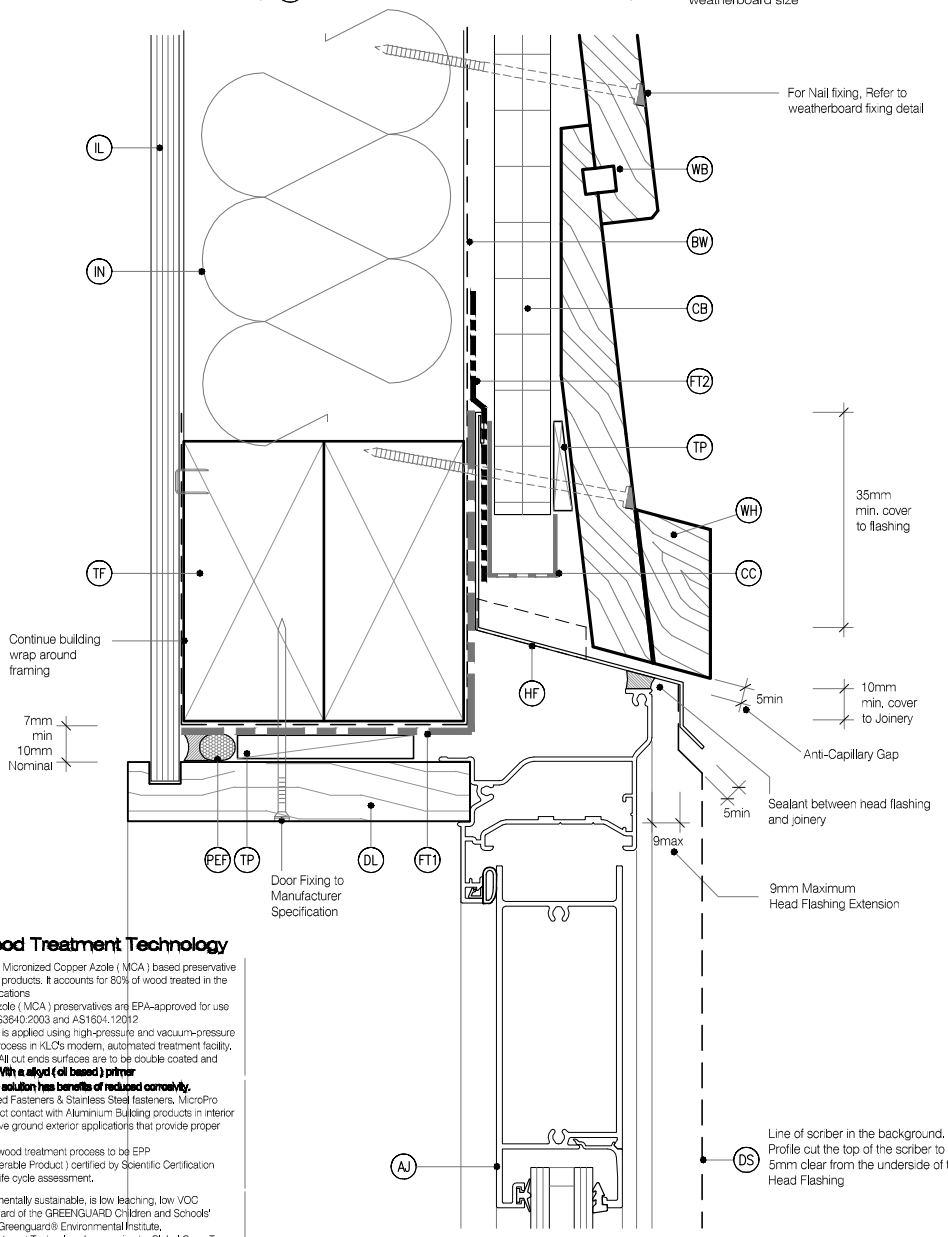
DRAWING SCALE	ISSUE DATE
1:4 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB13	1

KLC CF20 BB20 Door Details

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in door perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile
- (DL) DOOR LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (DS) DOOR SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber. 40x18 or 65x18 depending on weatherboard size



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CAD REF : KLC CF20 BB20-25 - DOOR DETAILS.dwg
DATE : 18/10/2018

Naturally Better
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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Door Head Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

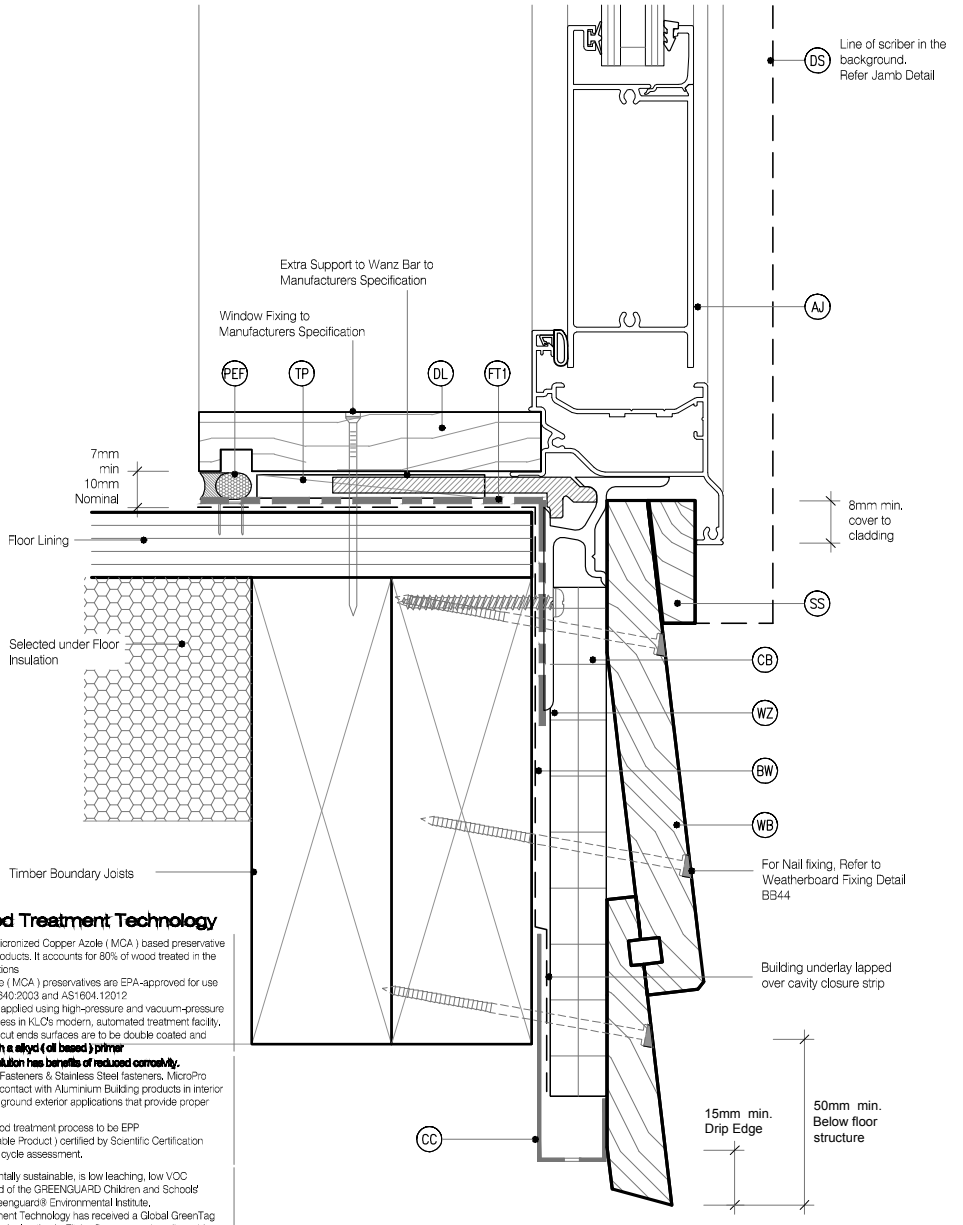
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB20	1

KLC CF20 BB21 Door Details

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in door perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile
- (DL) DOOR LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (DS) DOOR SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber. 40x18 or 65x18 depending on weatherboard size



MicroPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.12012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and **sealed before fixing. With a alkyd (oil based) primer**
5. **MicroPro preservative solution has benefits of reduced corrosivity.** Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB20-25 - DOOR DETAILS.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Door Sill Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

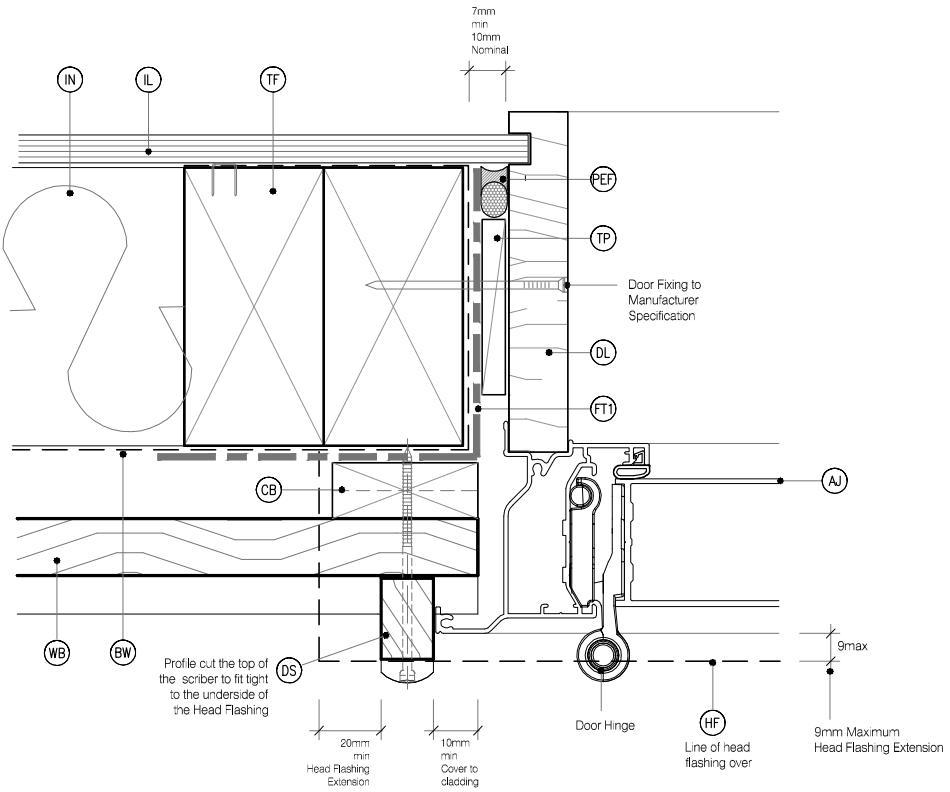
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB21	1

KLC CF20 BB22 Door Details

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in door perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile
- (DL) DOOR LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (DS) DOOR SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber. 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

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2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.12012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the awsrd of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB20-25 - DOOR DETAILS.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

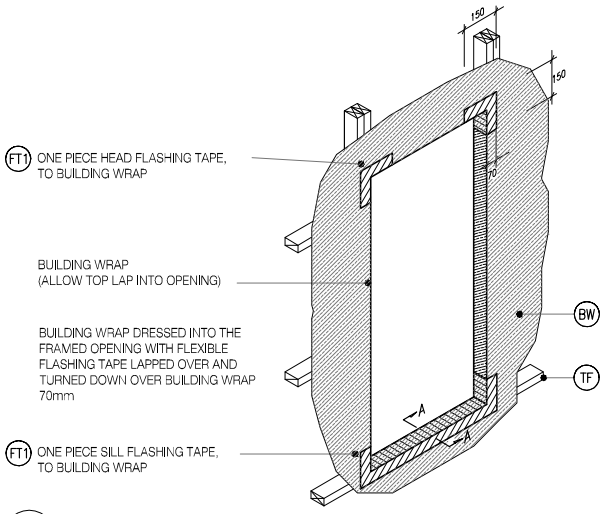
NAME Door Jamb Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

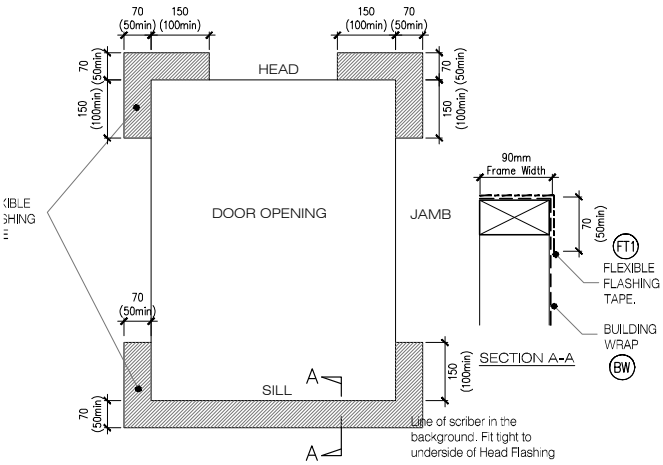
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB22	1

KLC CF20 BB23 Door Details



D4 BB23 TYPICAL DOOR OPENING (FLASHING TAPE)
SCALE : N.T.S



D5 BB23 FLEXIBLE BUILDING WRAP AT OPENING
SCALE : 1 / 5 @ A1, 1 / 10 @ A3

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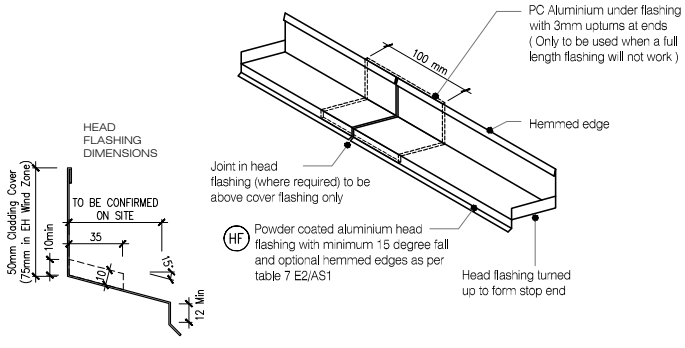

ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

D6 BB23 TYPICAL HEAD & FLASHING JOINT
SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF : KLC CF20 BB23-25 - DOOR DETAILS.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Door Flashing Details - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

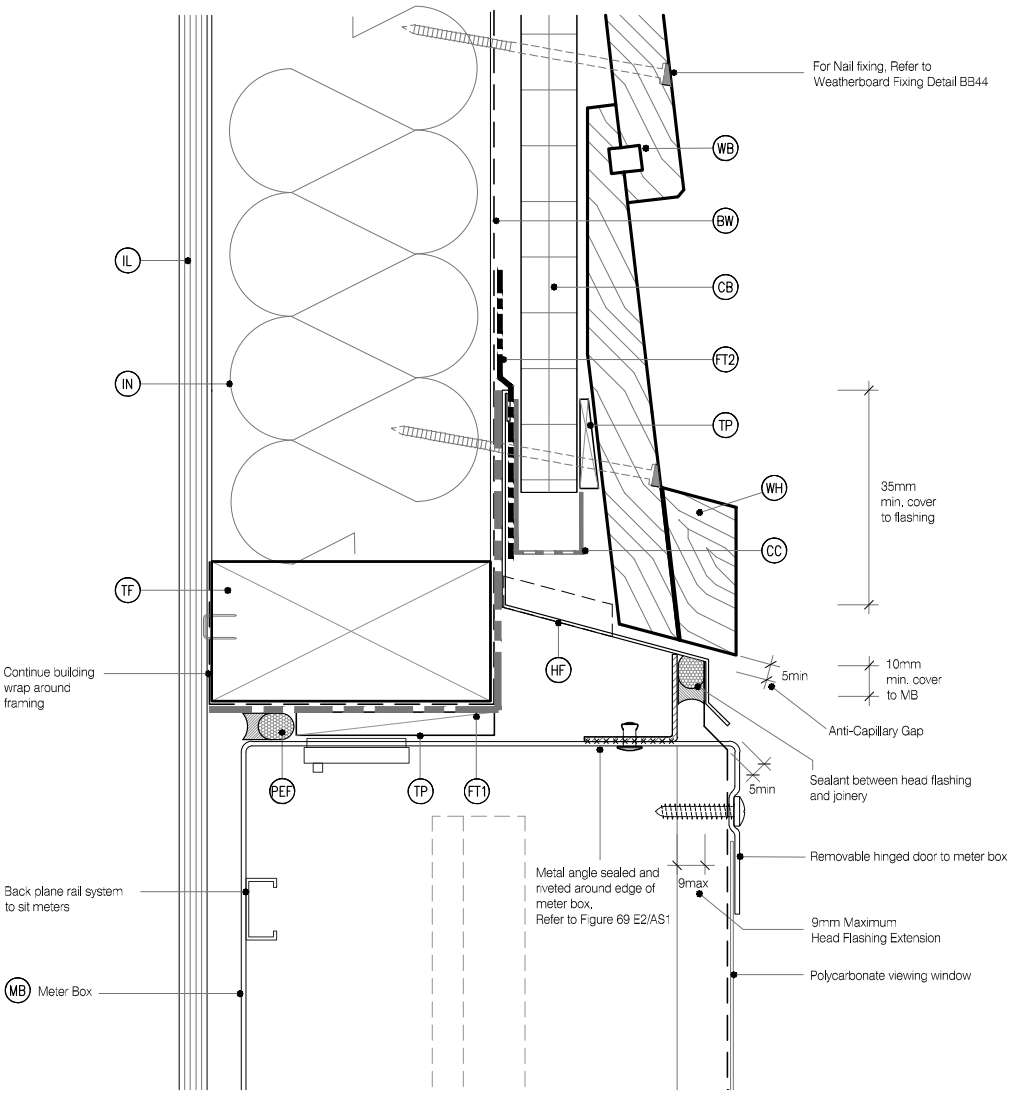
DRAWING SCALE	ISSUE DATE
1:4 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB23	1

KLC CF20 BB30 Meter Box

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the awsrd of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB30-35 - METER BOX.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Meter Box - Head Detail

CODEMARK AQ-020216-CMNZ

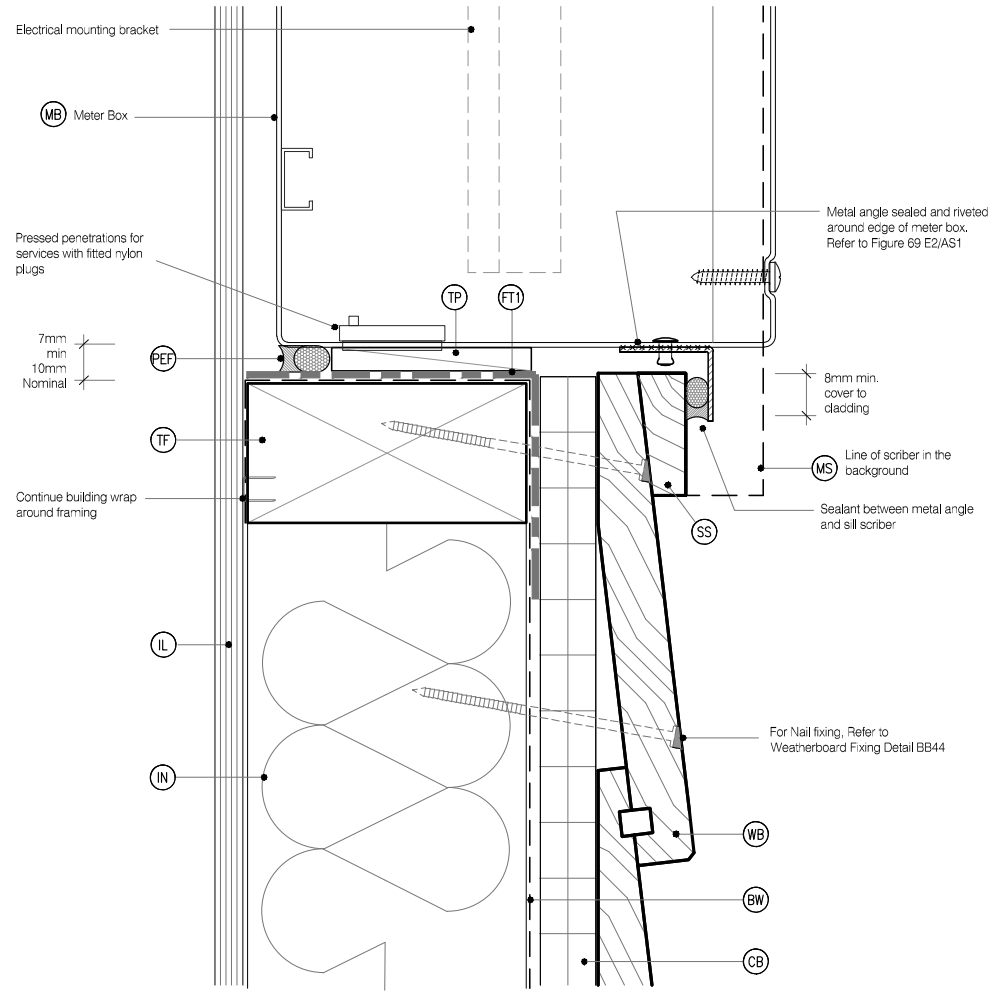
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB30	1

KLC CF20 BB31 Meter Box

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CC) CAVITY CLOSURE: Cavity closure strip, positioned to give a 15mm Min drip edge to cladding
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



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CAD REF : KLC CF20 BB30-35 - METER BOX.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Meter Box - Sill Detail

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB31	1

KLC CF20 BB32 Meter Box

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
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- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
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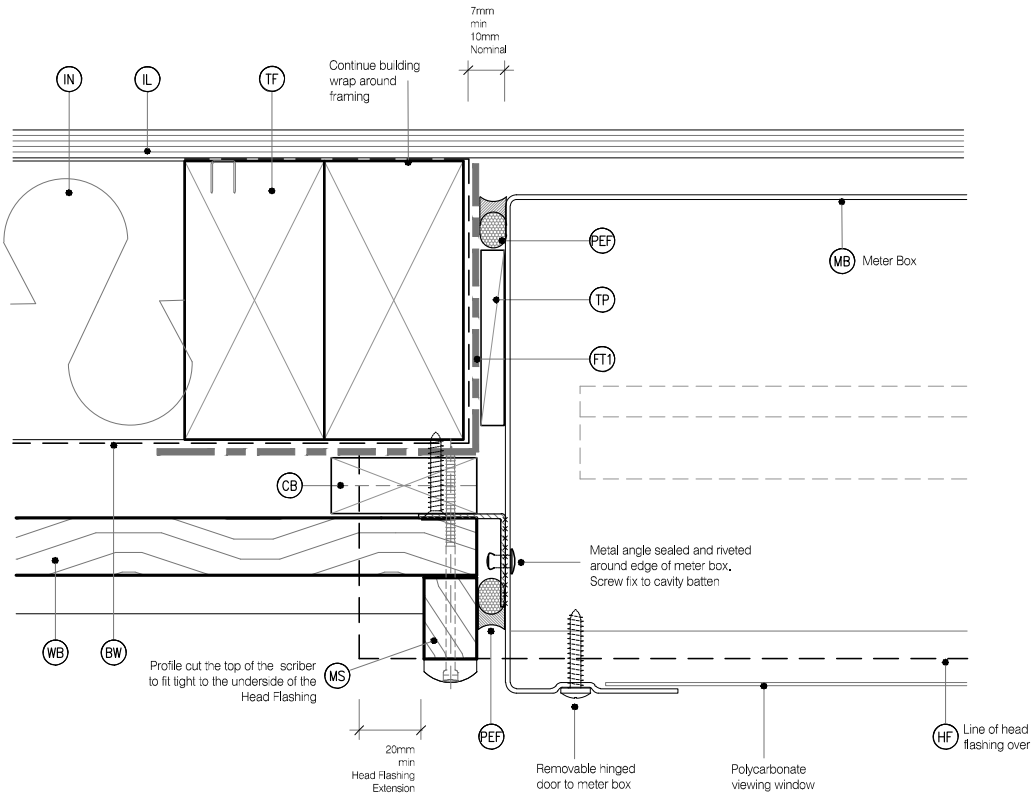
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WZ) WANZ SUPPORT: Provide window support as required by joinery manufacturer
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



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CAD REF : KLC CF20 BB32-35 - METER BOX.dwg
DATE : 18/10/2018

Naturally Better

www.klc.co.nz

DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

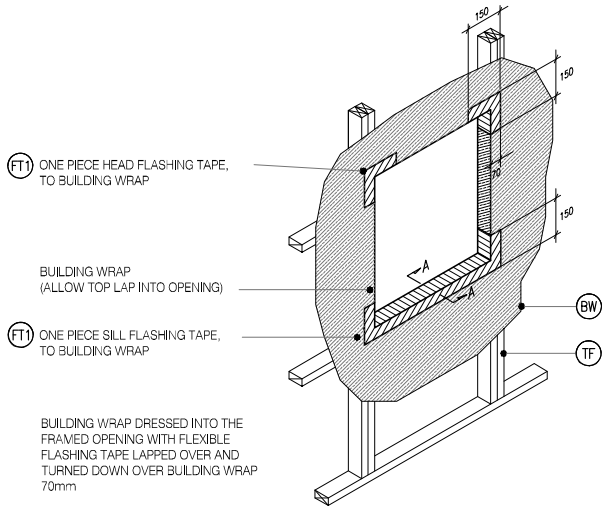
NAME Meter Box - Jamb Detail

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

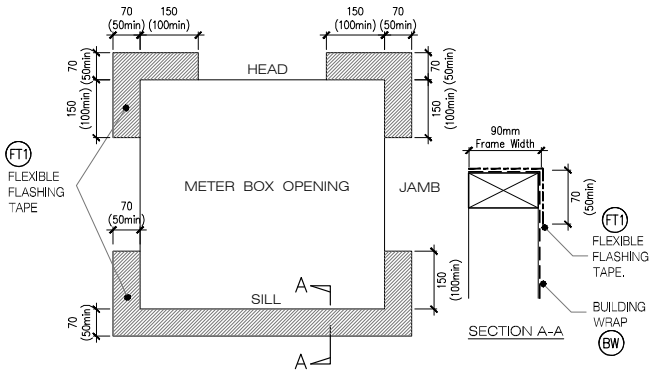
DRAWING No	REVISION
KLC CF20 BB32	1

KLC CF20 BB33 Meter Box



M4 BB33 TYPICAL METER BOX OPENING (FLASHING TAPE

SCALE : N.T.S



M5 BB33 FLEXIBLE BUILDING WRAP AT OPENING

SCALE : 1 / 5 @ A1, 1 / 10 @ A3

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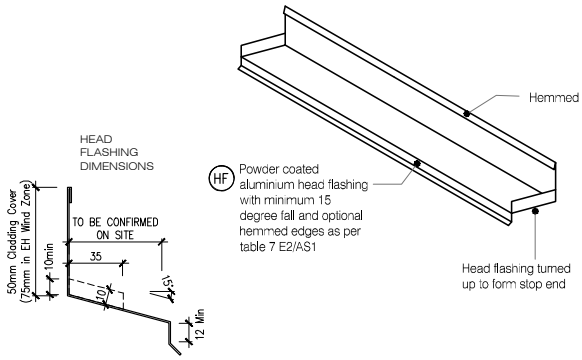

ONE PIECE PC ALUMINIUM HEAD FLASHING 15° SLOPE WITH 10mm min COVER TO JOINERY EXTEND 30mm min EITHER SIDE OF JOINERY WITH STOP ENDS

M6 BB33 TYPICAL HEAD & FLASHING JOINT

SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF : KLC CF20 BB33-35 - METER BOX.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Meter Box - Flashing Details

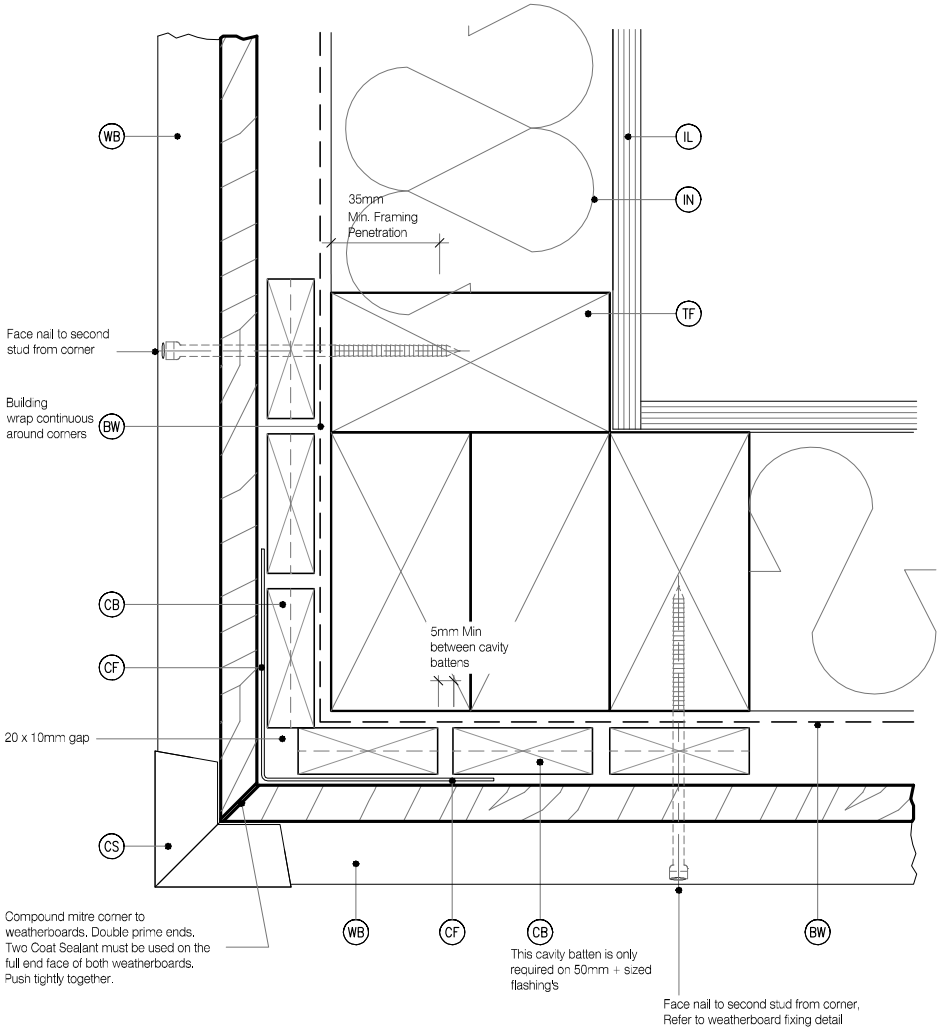
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:4 @ A4	18/10/2018
DRAWING No	REVISION
KLC CF20 BB33	1

KLC CF20 BB40 General Details

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
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CAD REF : KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME External Corner Soaker

CODEMARK AQ-020216-CMNZ

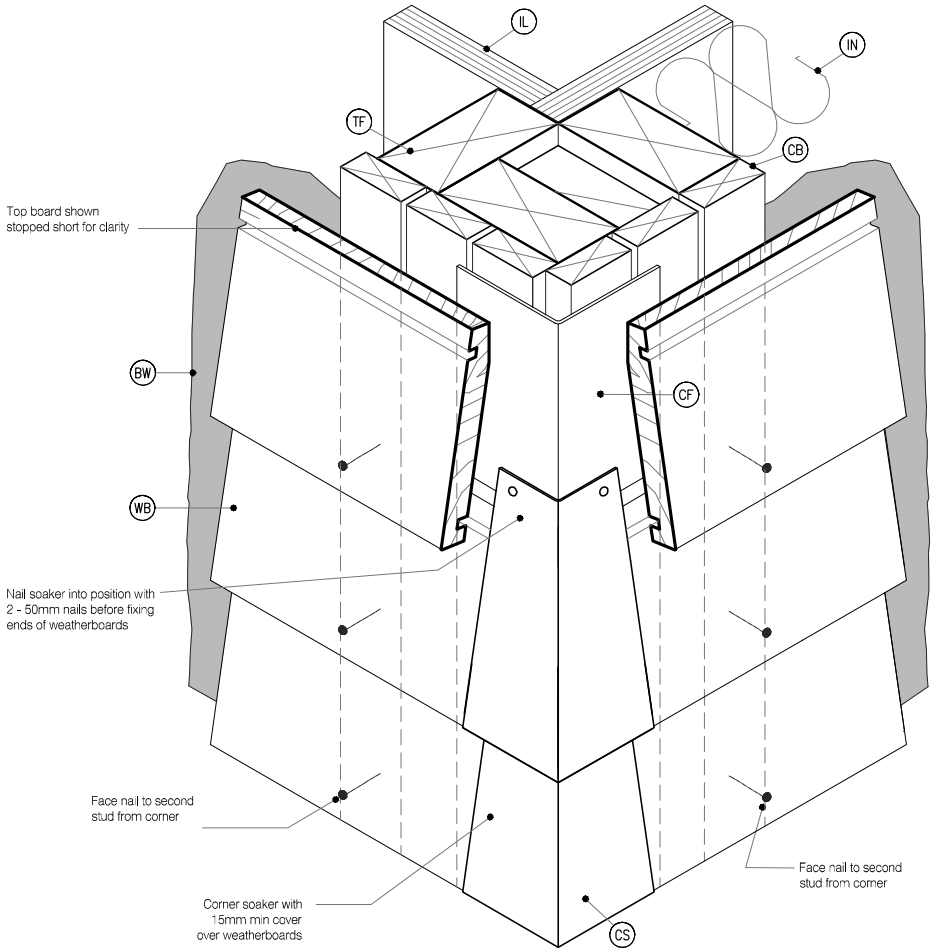
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB40	1

KLC CF20 BB41 General Details

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



Soaker material	Nail material
Copper	Copper or phosphor bronze
Aluminium	Hot dip galvanised
Stainless steel	Stainless steel

MicoPro® Wood Treatment Technology

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CAD REF : KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME 3D - External Corner Soaker

CODEMARK AQ-020216-CMNZ

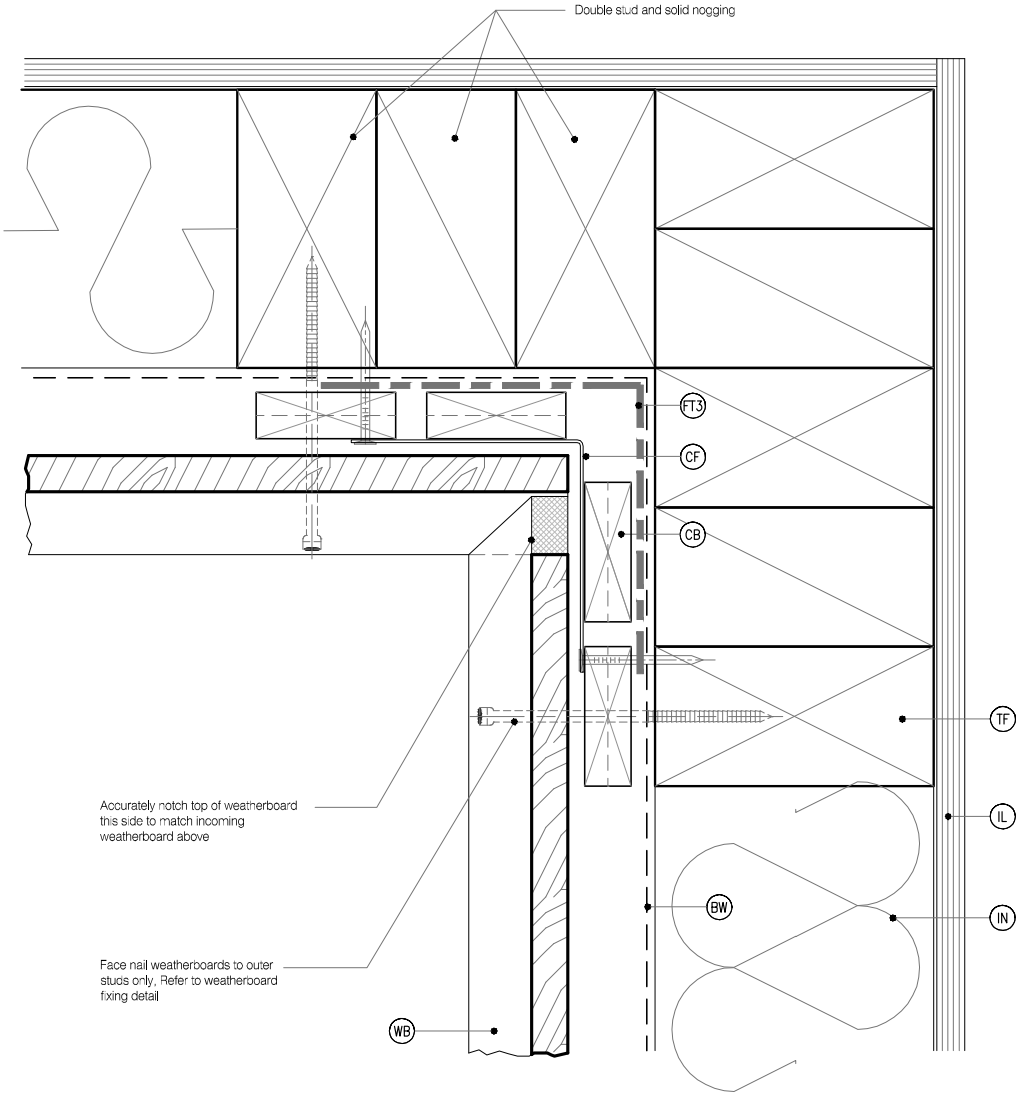
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB41	1

KLC CF20 BB42 General Details

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



DETAIL NOTES :

1. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1
2. Aluminium extrusion must not be continuous over solid floor joists.

MicoPro® Wood Treatment Technology

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CAD REF : KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Internal Corner

CODEMARK AQ-020216-CMNZ

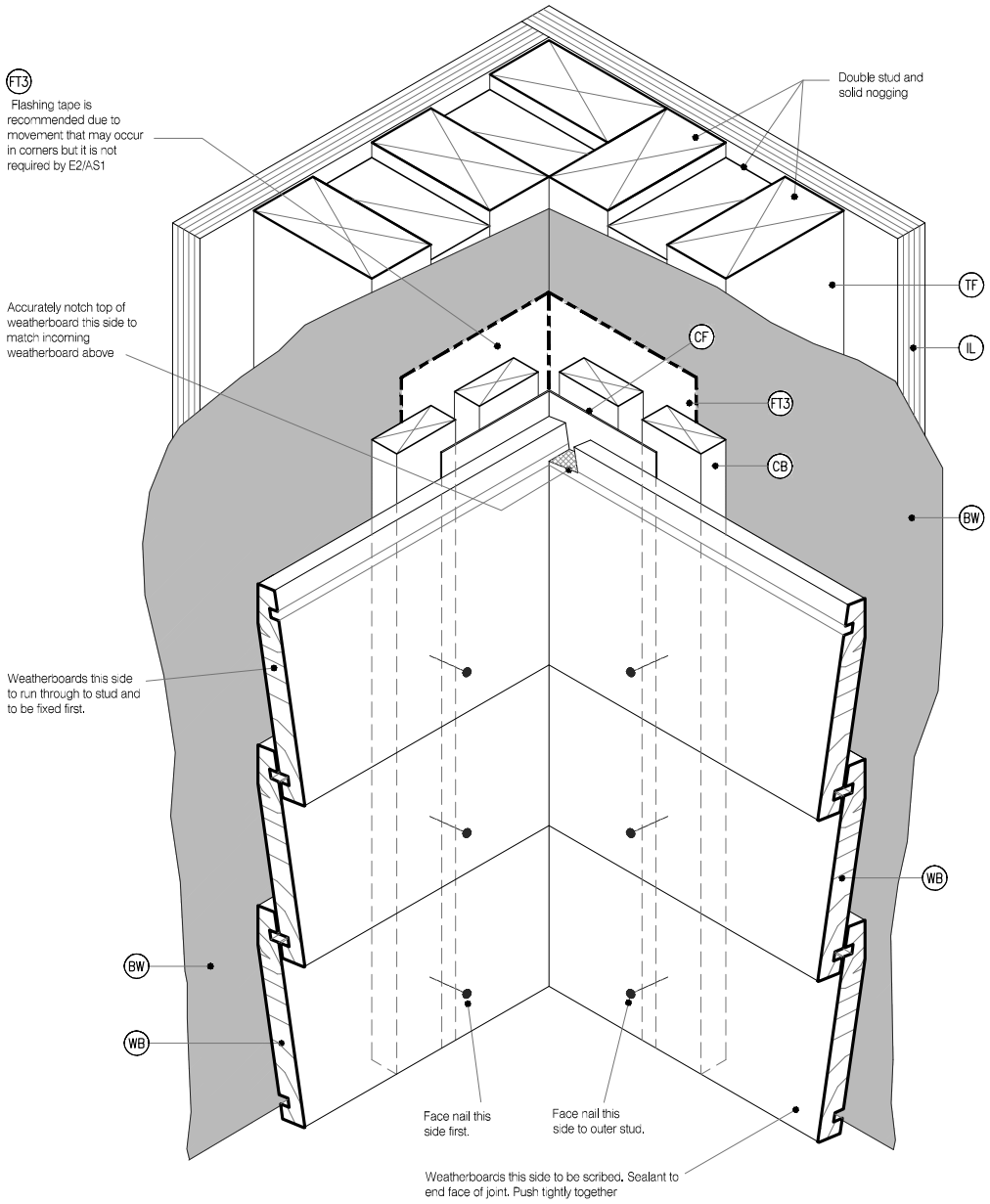
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB42	1

KLC CF20 BB43 General Details

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



MicoPro® Wood Treatment Technology

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CAD REF : KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME 3D - Internal Corner

CODEMARK AQ-020216-CMNZ

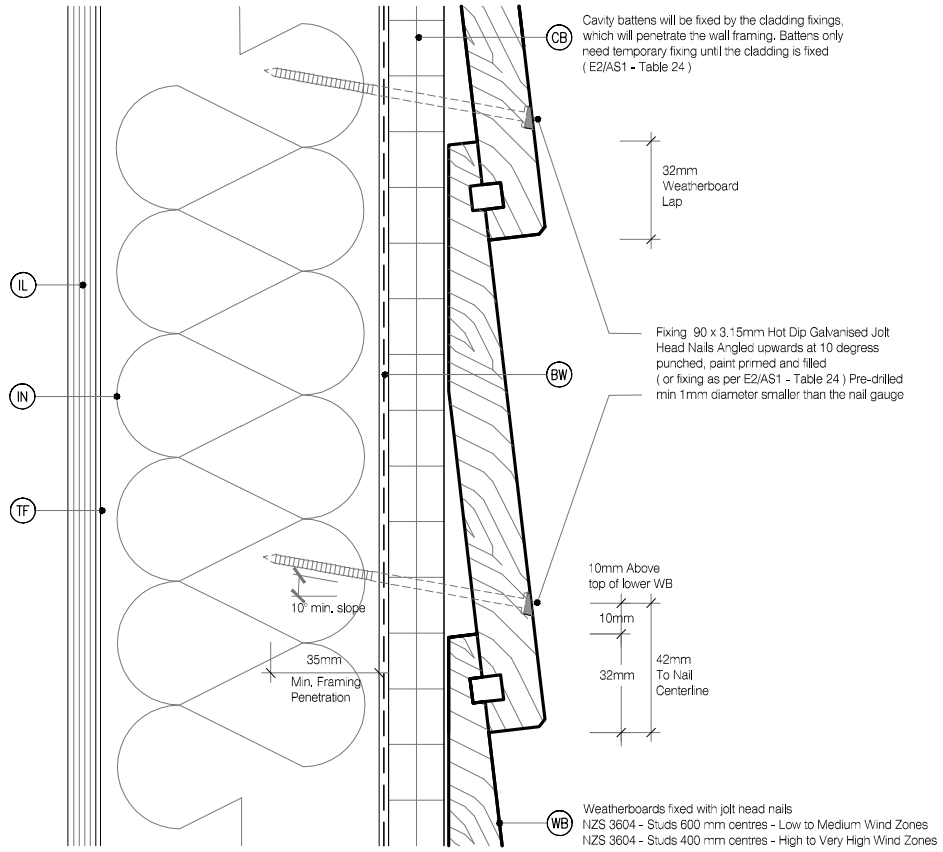
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB43	1

KLC CF20 BB44 General Information

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



MicoPro® Wood Treatment Technology

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CAD REF : KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Weatherboard Fixing

CODEMARK AQ-020216-CMNZ

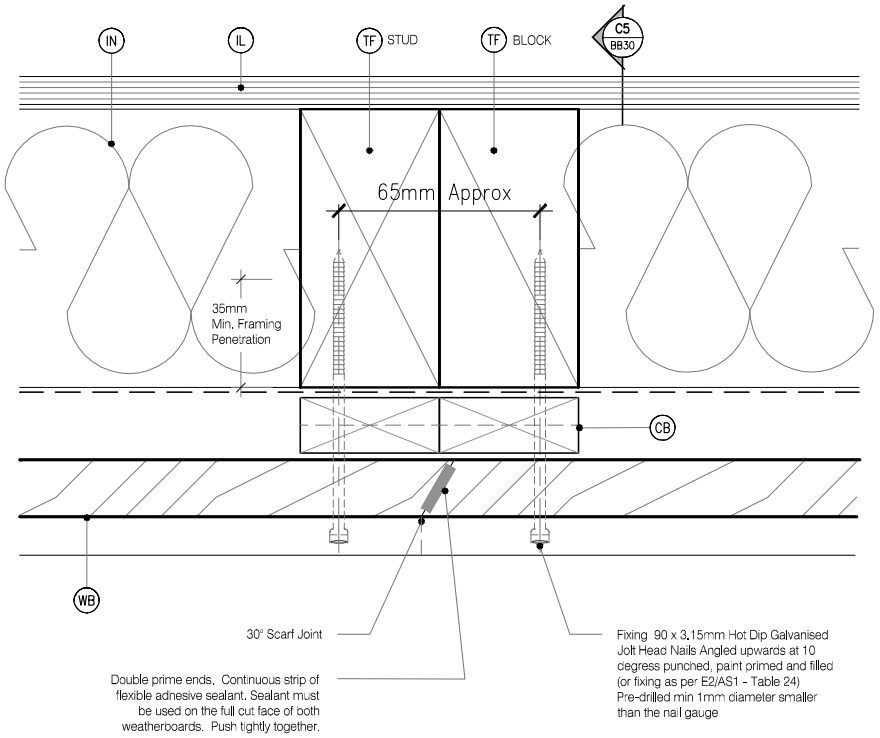
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB44	1

KLC CF20 BB45 General Information

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



When joining weatherboards a 30 ° Scarf joint is to be used. This joint must face away from the prevailing weather.
Alternatively a corrosion resistant soaker can be used, refer to E2/AS1 - 9.4.4.2 & Soakers materials to 4.32 to Paragraph 4.3.8

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CAD REF : KLC CF20 BB40-46 - GENERAL DETAILS 01.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Scarf Joint - Horizontal

CODEMARK AQ-020216-CMNZ

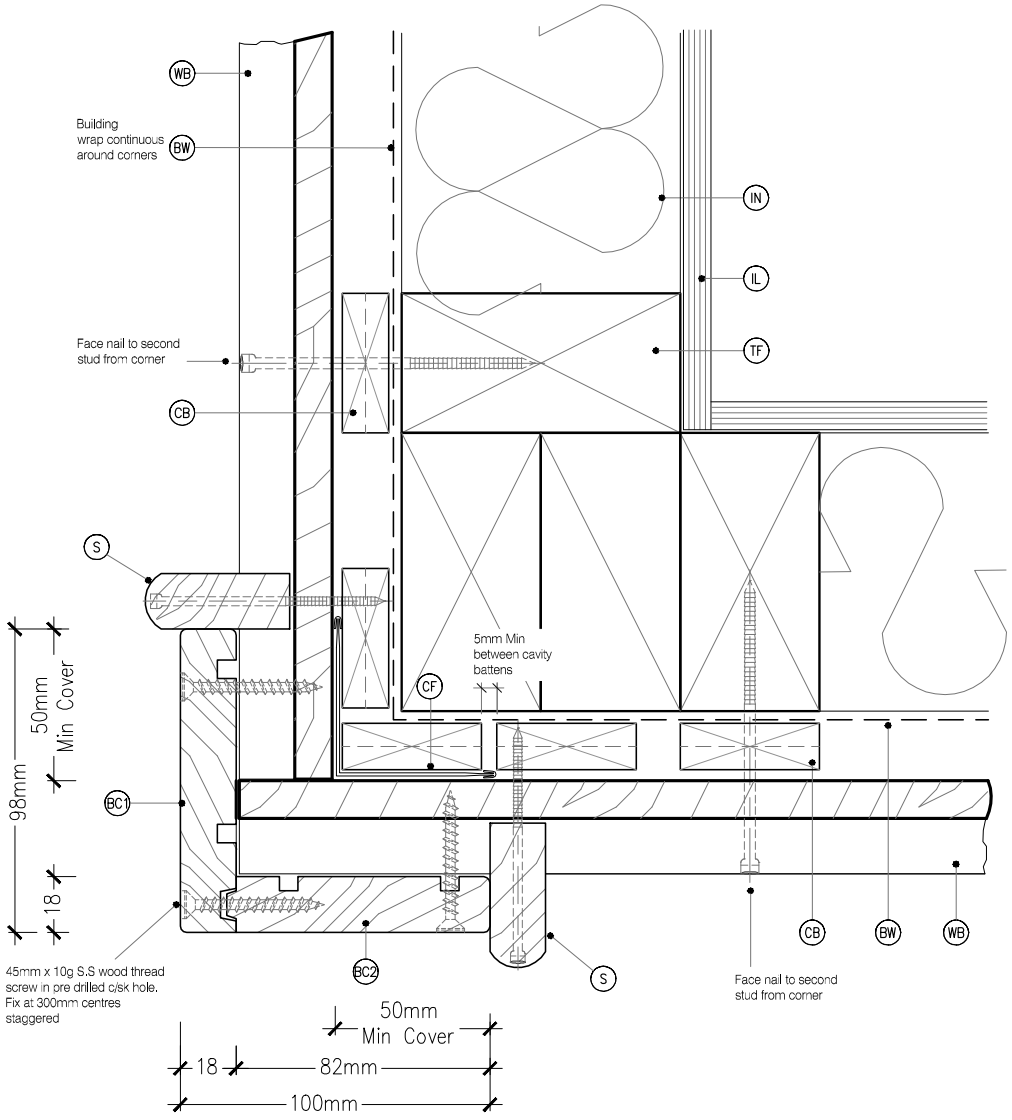
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB45	1

KLC CF20 BB50 General Information

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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CAD REF : KLC CF20 BB50-56 - GENERAL DETAILS 02.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME External Boxed Corner

CODEMARK AQ-020216-CMNZ

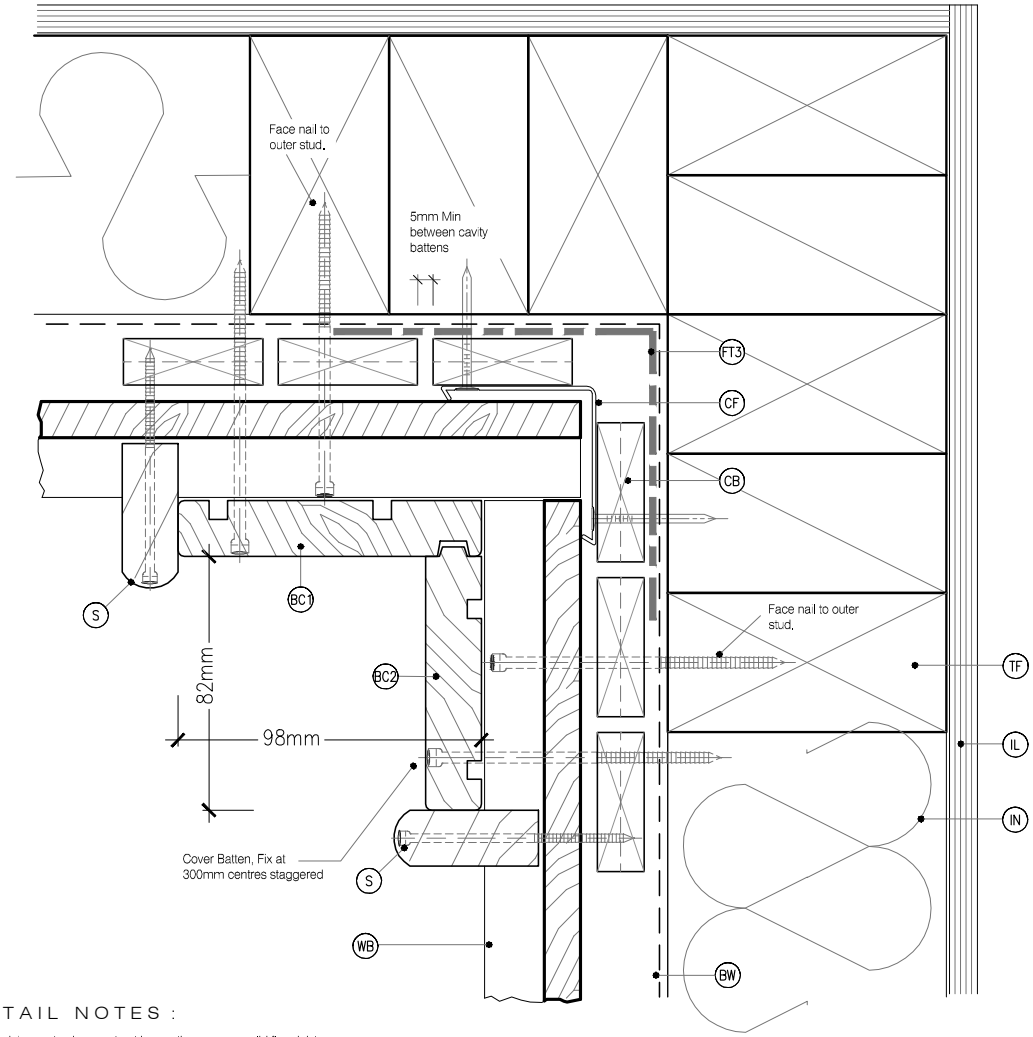
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB50	1

KLC CF20 BB52 General Information

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



DETAIL NOTES :

1. Aluminium extrusion must not be continuous over solid floor joists.
2. Corner Flashing is recommended but not required by E2/AS1
3. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1

MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the awsrd of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB52-56 - GENERAL DETAILS 02.dwg
DATE : 18/10/2018

KLC Naturally Better
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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Internal Boxed Corner

CODEMARK AQ-020216-CMNZ

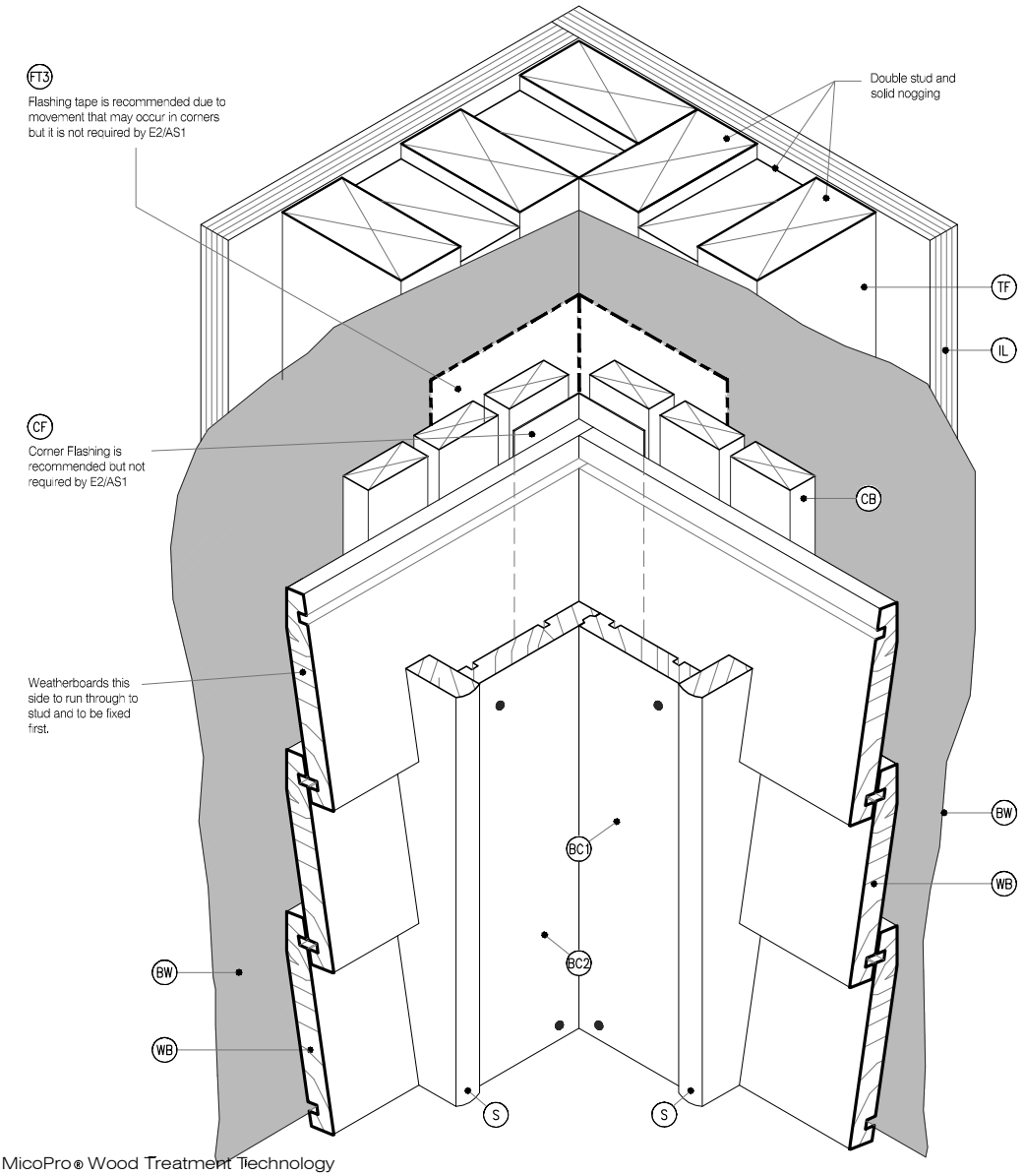
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB52	1

KLC CF20 BB53 General Information

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

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6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the awsrd of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB53-56 - GENERAL DETAILS 02.dwg
DATE : 18/10/2018

KLC Naturally Better
www.klc.co.nz
DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME 3D - Internal Boxed Corner

CODEMARK AQ-020216-CMNZ

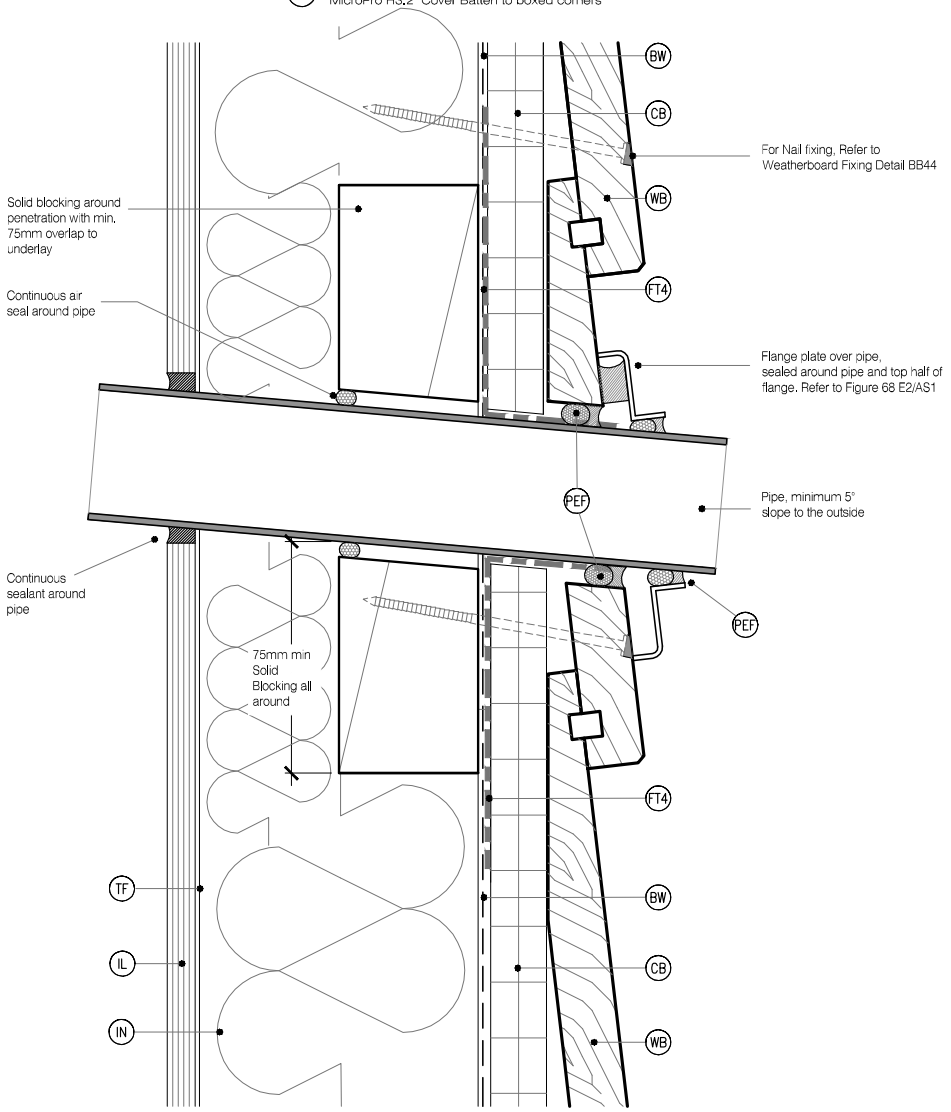
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB53	1

KLC CF20 BB54 General Information

LEGEND:

- PEF — PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- CB — CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- IL — INTERNAL LINING: Selected Internal Lining
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- IN — INSULATION: Selected Insulation
- TF — TIMBER FRAME: H1.2 min treated timber framing
- FT3 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- FT4 — FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- WB — WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- BC1 — BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- BC2 — BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- CF — CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- S — SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

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7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the awsrd of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB50-56 - GENERAL DETAILS 02.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Pipe Penetration

CODEMARK AQ-020216-CMNZ

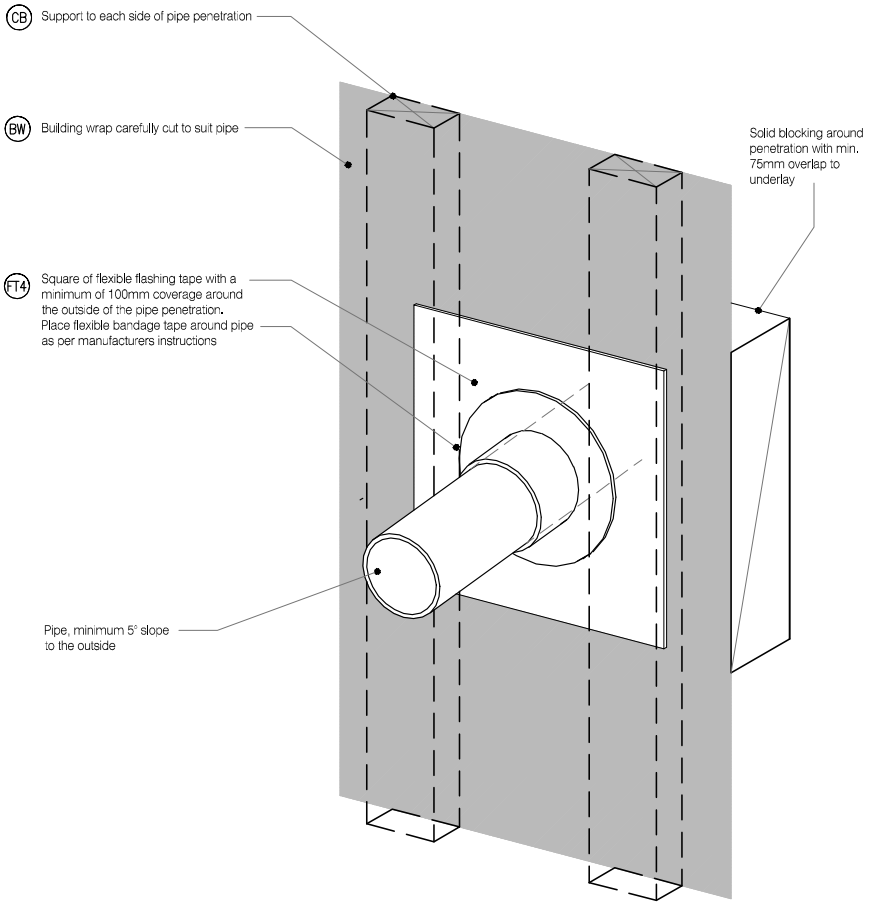
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB54	1

KLC CF20 BB55 General Information

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole, 40x18 or 65x18 depending on weatherboard size



MicroPro® Wood Treatment Technology

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6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB50-56 - GENERAL DETAILS 02.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME 3D - Pipe Penetration

CODEMARK AQ-020216-CMNZ

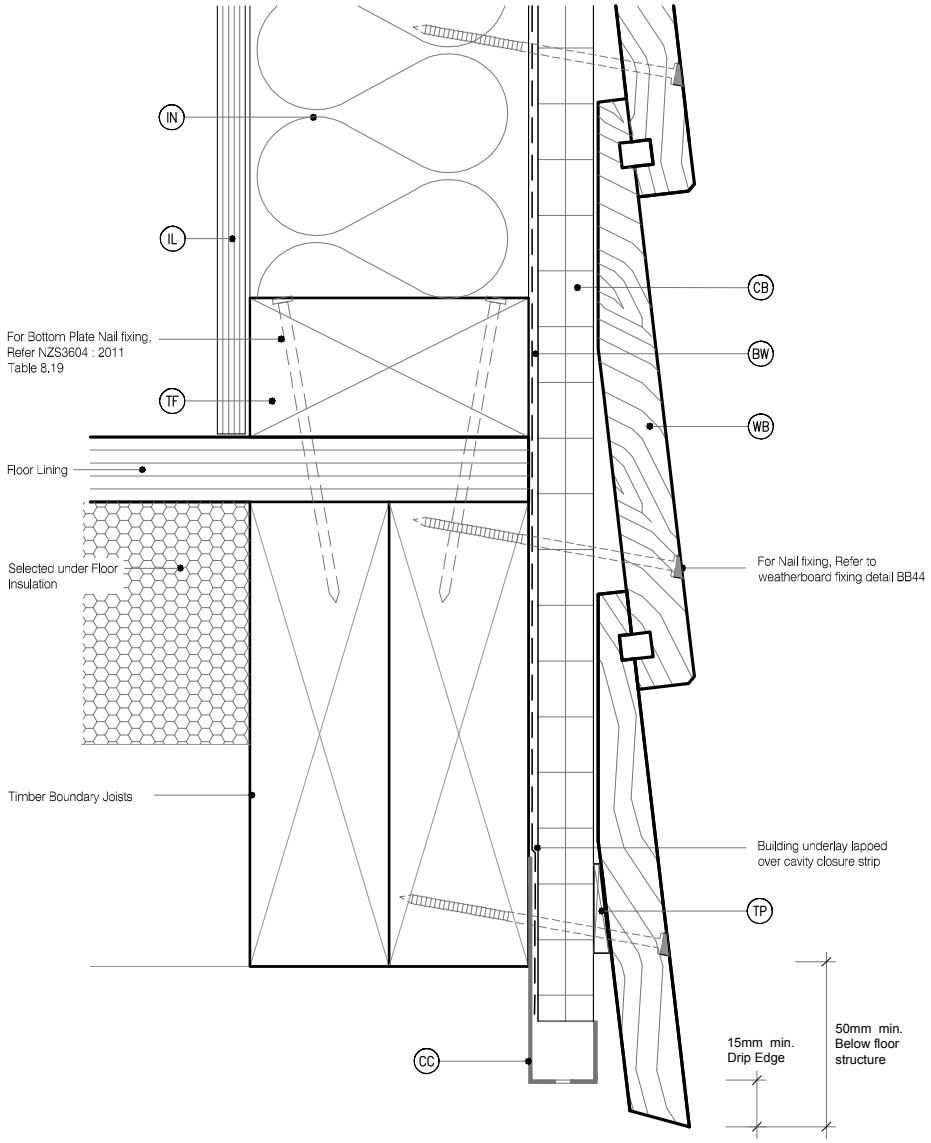
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB55	1

KLC CF20 BB56 General Information

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT2) FLEXIBLE FLASHING TAPE: Additional underlay of flexible flashing tape lapped over Apron flashing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)



MicoPro® Wood Treatment Technology

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9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB60-66 - GENERAL DETAILS 03.dwg
DATE : 18/10/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Base of Wall, Timber

CODEMARK AQ-020216-CMNZ

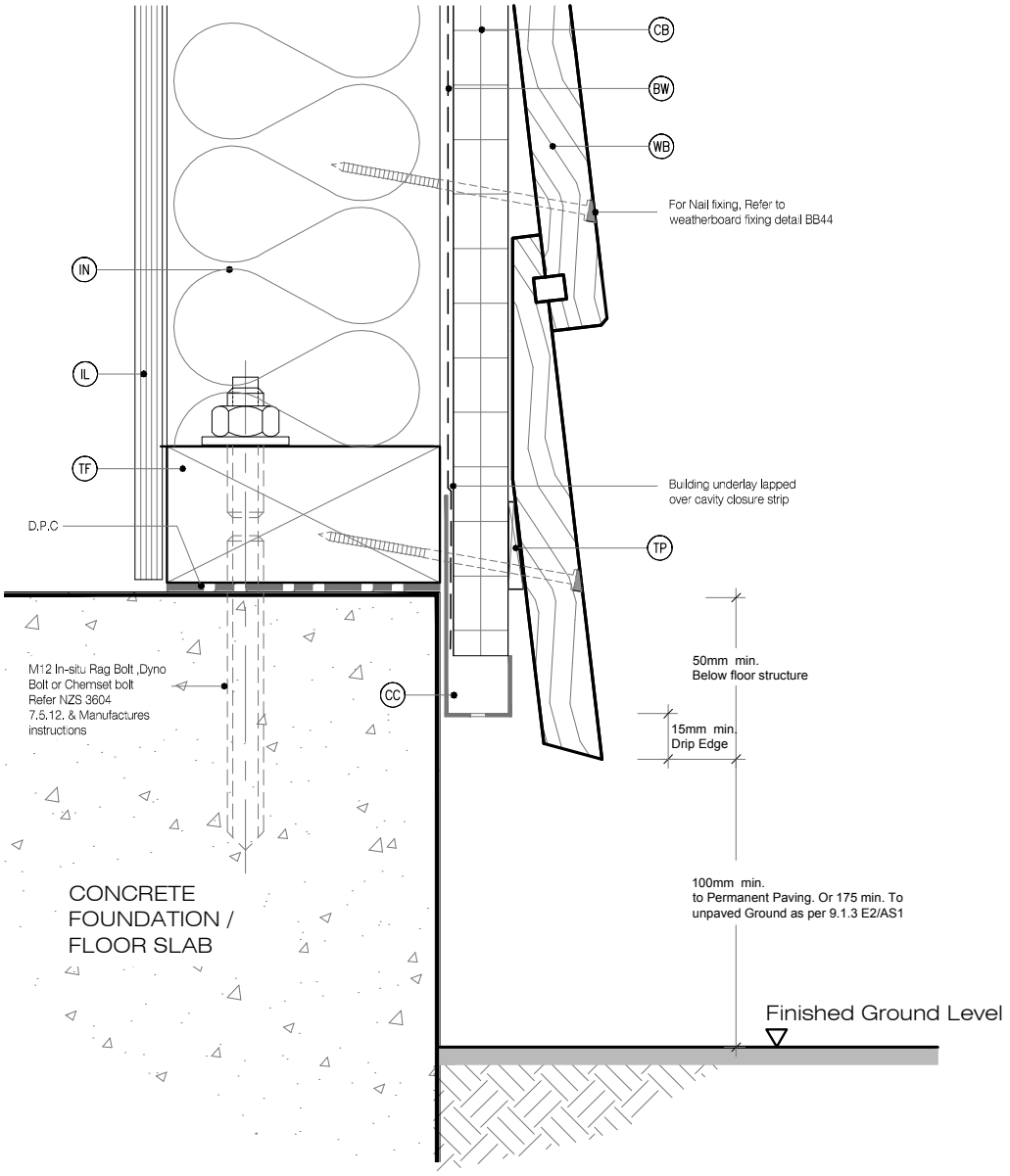
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB60	1

KLC CF20 BB57 General Information

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT2) FLEXIBLE FLASHING TAPE: Additional underlay of flexible flashing tape lapped over Apron flashing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)



MicoPro® Wood Treatment Technology

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CAD REF : KLC CF20 BB60-66 - GENERAL DETAILS 03.dwg
DATE : 18/10/2018

Naturally Better

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Base of Wall, Concrete

CODEMARK AQ-020216-CMNZ

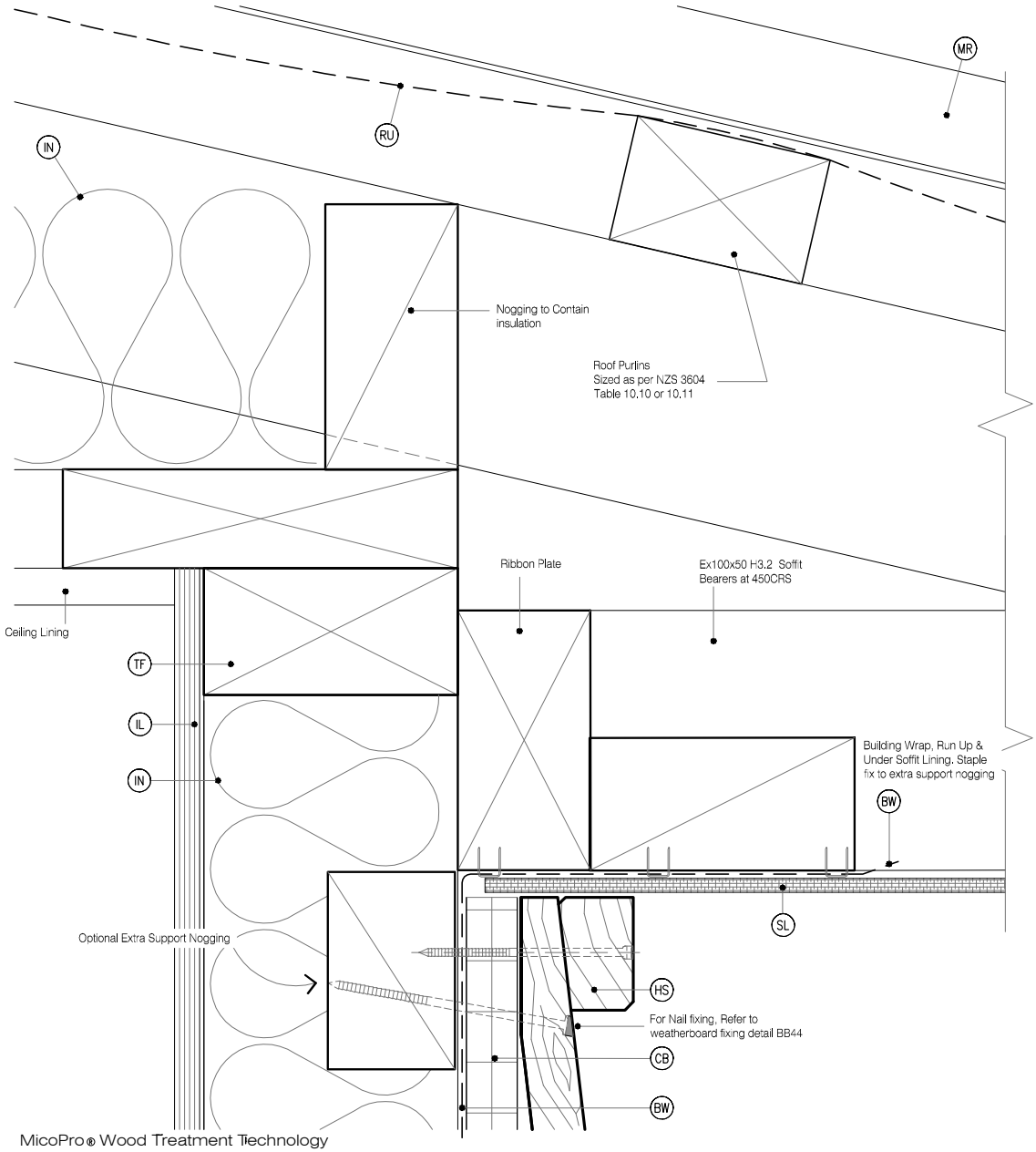
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB61	1

KLC CF20 BB62 General Information

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT2) FLEXIBLE FLASHING TAPE: Additional underlay of flexible flashing tape lapped over Apron flashing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)



MicroPro® Wood Treatment Technology

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CAD REF : KLC CF20 BB60-66 - GENERAL DETAILS 03.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Soffit Detail at Wall

CODEMARK AQ-020216-CMNZ

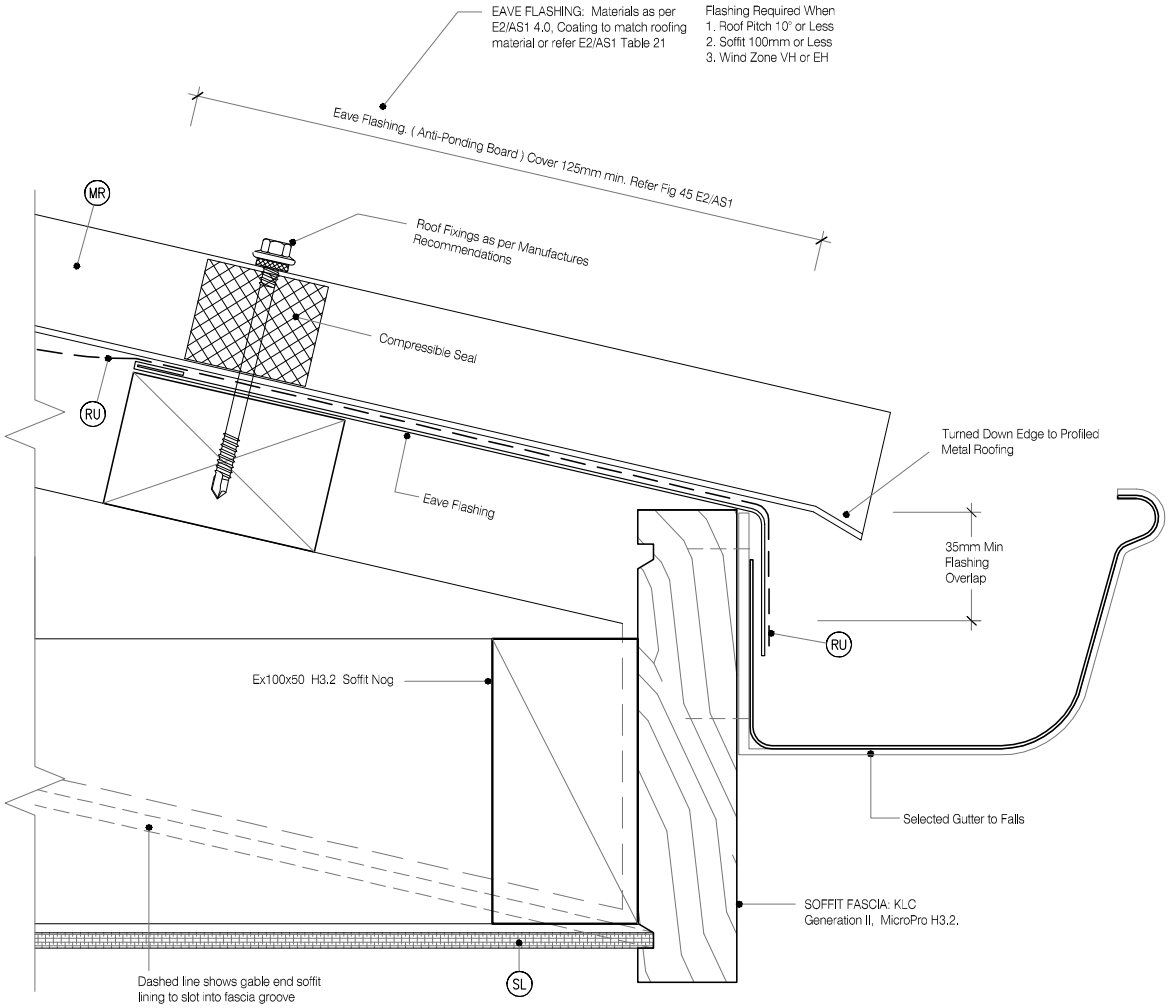
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB62	1

KLC CF20 BB63 General Information

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT2) FLEXIBLE FLASHING TAPE: Additional underlay of flexible flashing tape lapped over Apron flashing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)



MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.12012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage.
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB60-66 - GENERAL DETAILS 03.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Soffit Detail at Fascia

CODEMARK AQ-020216-CMNZ

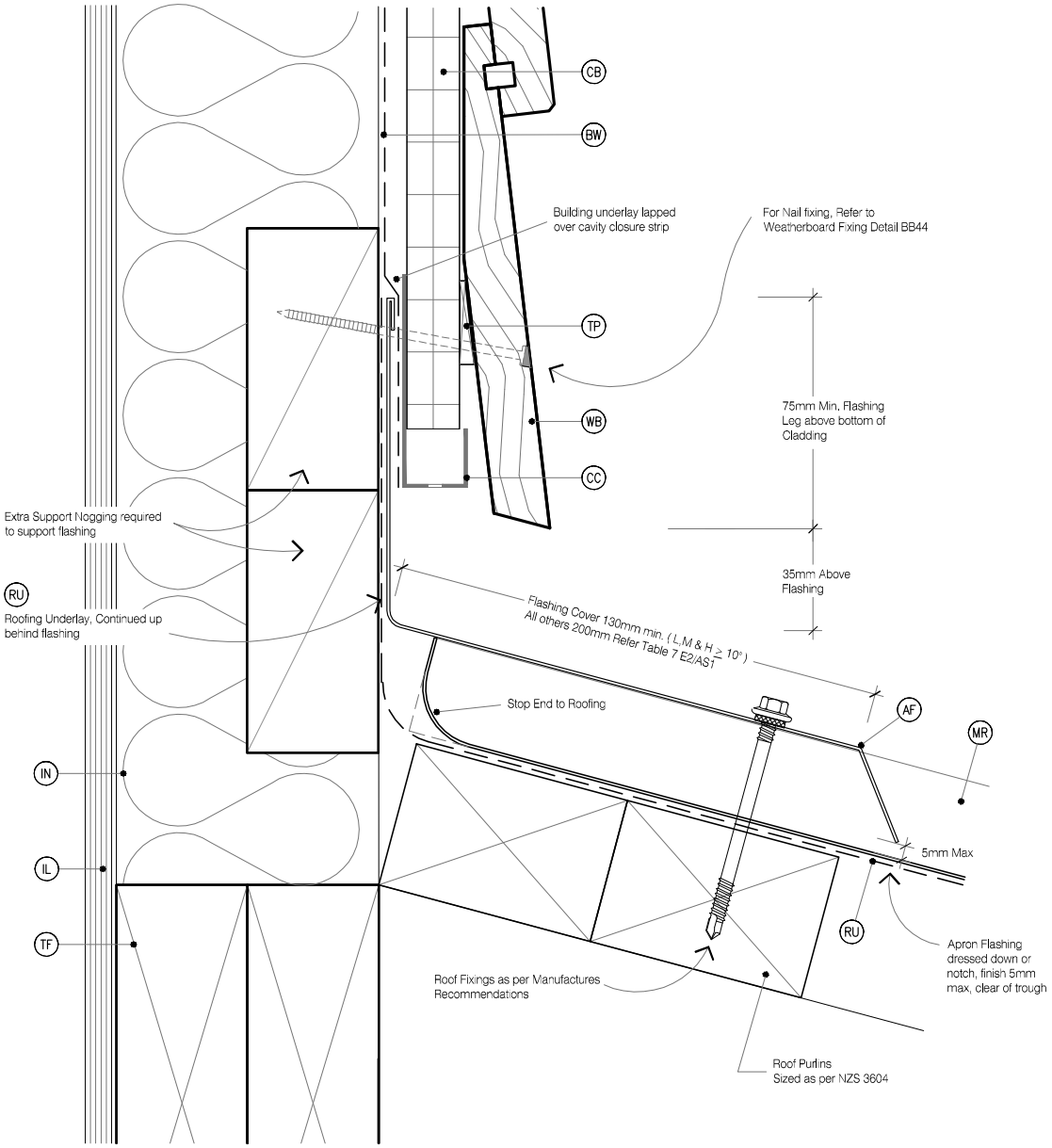
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB63	1

KLC CF20 BB64 General Information

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT2) FLEXIBLE FLASHING TAPE: Additional underlay of flexible flashing tape lapped over Apron flashing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)



MicoPro® Wood Treatment Technology

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3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage.
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
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8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC CF20 BB60-66 - GENERAL DETAILS 03.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Apron Flashing - Roof to Wall Junction

CODEMARK AQ-020216-CMNZ

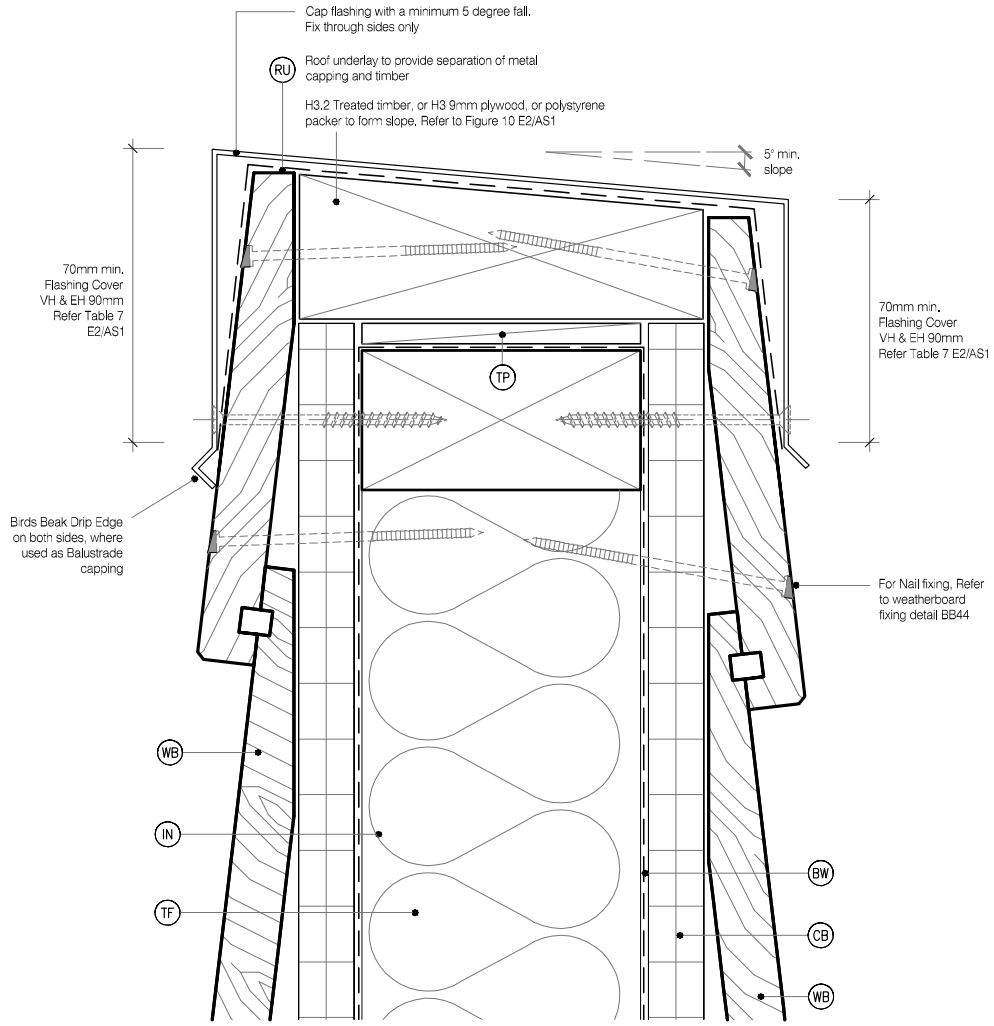
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB64	1

KLC CF20 BB65 General Information

LEGEND:

- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (FT2) FLEXIBLE FLASHING TAPE: Additional underlay of flexible flashing tape lapped over Apron flashing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)



MicoPro® Wood Treatment Technology

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2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the awsrd of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
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CAD REF : KLC CF20 BB60-66 - GENERAL DETAILS 03.dwg
DATE : 18/10/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Cavity Fix

NAME Balustrade Capping or Parapet Detail

CODEMARK AQ-020216-CMNZ

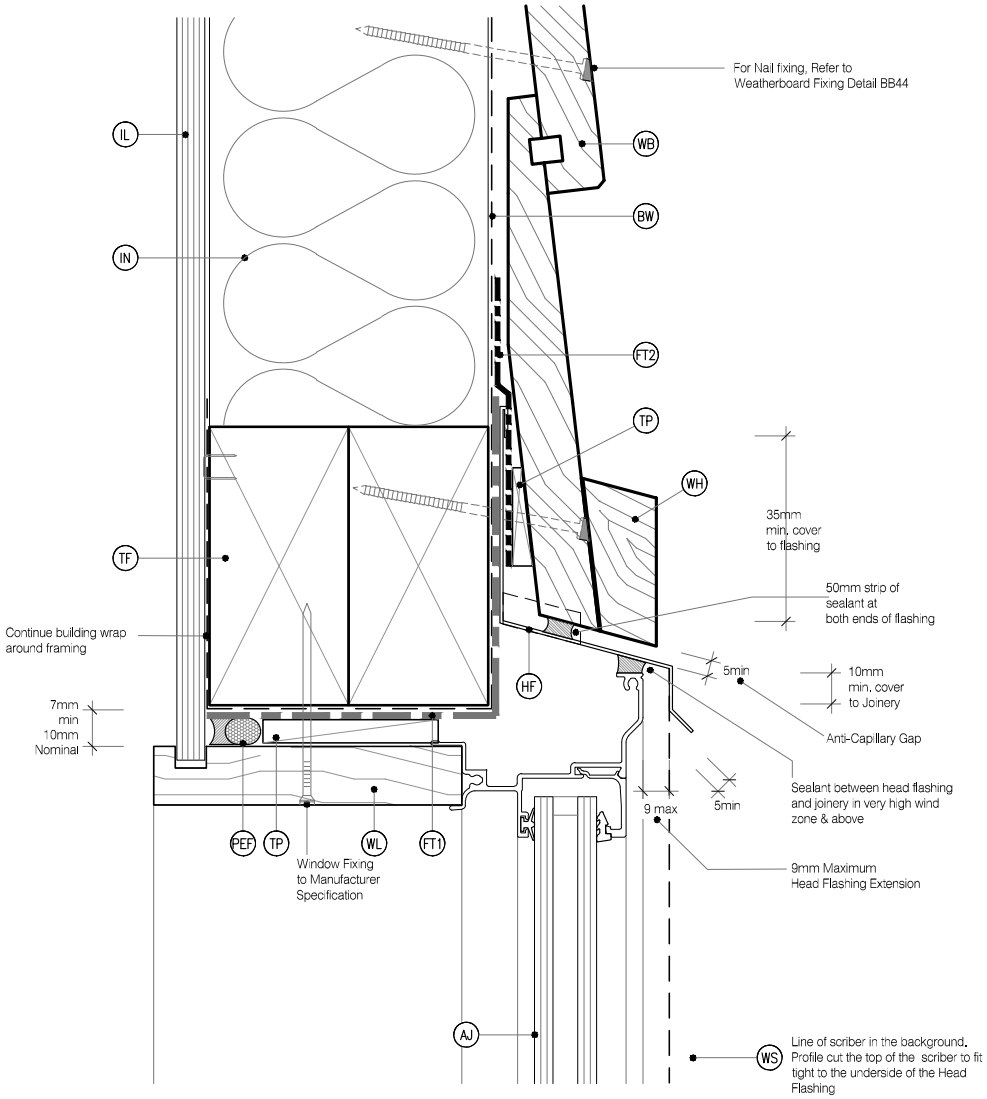
DRAWING SCALE	ISSUE DATE
1:2 @ A4	18/10/2018

DRAWING No	REVISION
KLC CF20 BB65	1

KLC DF BB10 Window Details

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (SF) SILL FLASHING: Powder Coater Aluminium, extend behind line of Aluminium Frame with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- (JB) JAMB BATTENS: 20mm MicroPro H3.2. Batten stops short of sill flashing, Sill flashing runs under
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.12012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the awsrd of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC DF BB10-15 - WINDOW DETAILS.dwg
DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Window Head Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

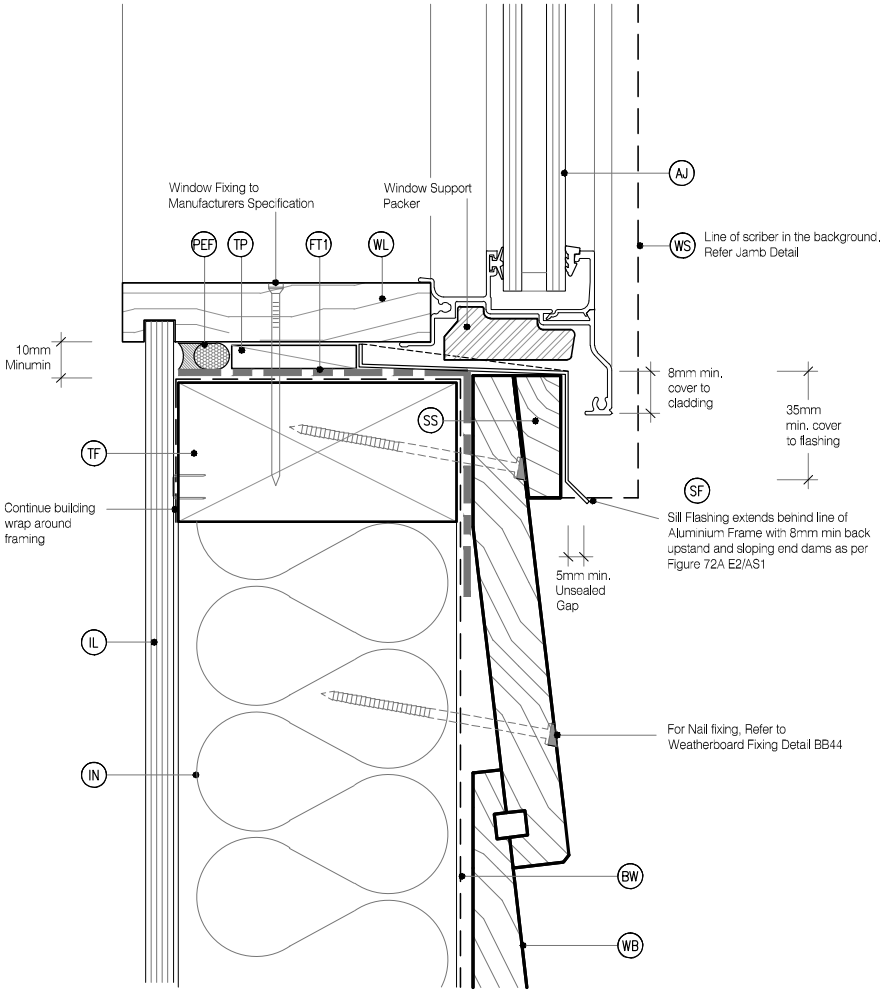
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB10	0

KLC DF BB11 Window Details

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (SF) SILL FLASHING: Powder Coater Aluminium, extend behind line of Aluminium Frame with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- (JB) JAMB BATTENS: 20mm MicroPro H3.2. Batten stops short of sill flashing, Sill flashing runs under
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

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CAD REF : KLC DF BB10-15 – WINDOW DETAILS.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Window Sill Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

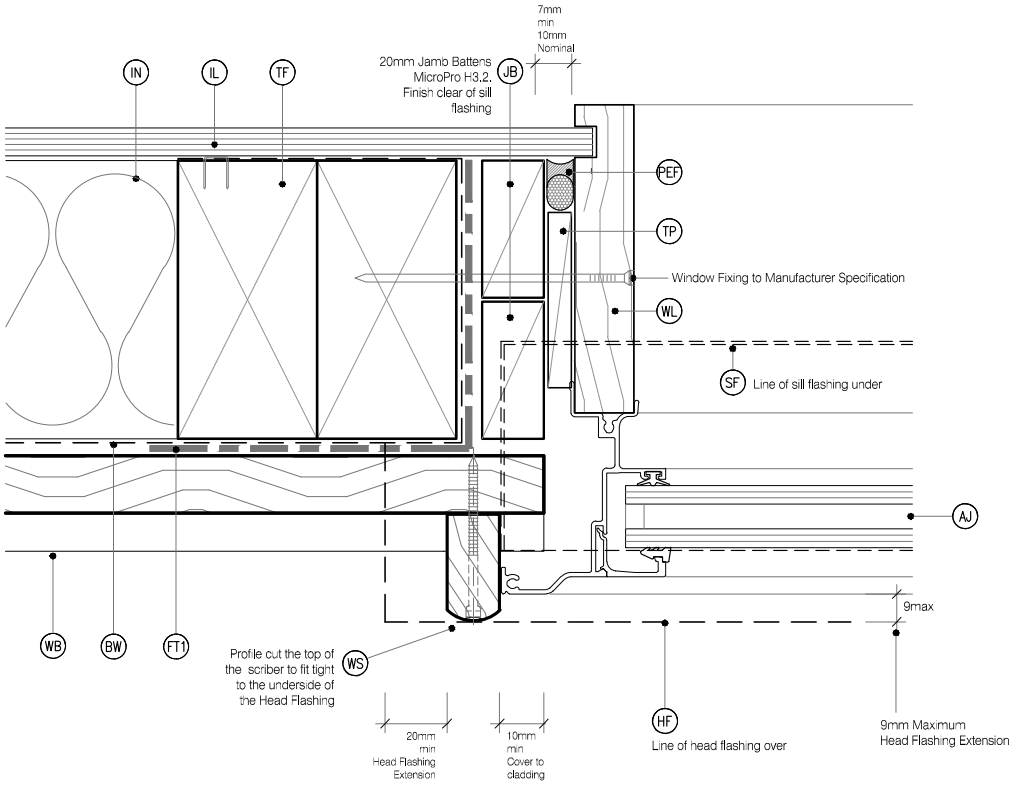
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB11	0

KLC DF BB12 Window Details

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (SF) SILL FLASHING: Powder Coater Aluminium, extend behind line of Aluminium Frame with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- (JB) JAMB BATTENS: 20mm MicroPro H3.2. Batten stops short of sill flashing, Sill flashing runs under
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (WL) WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- (WS) WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
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CAD REF : KLC DF BB10-15 – WINDOW DETAILS.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

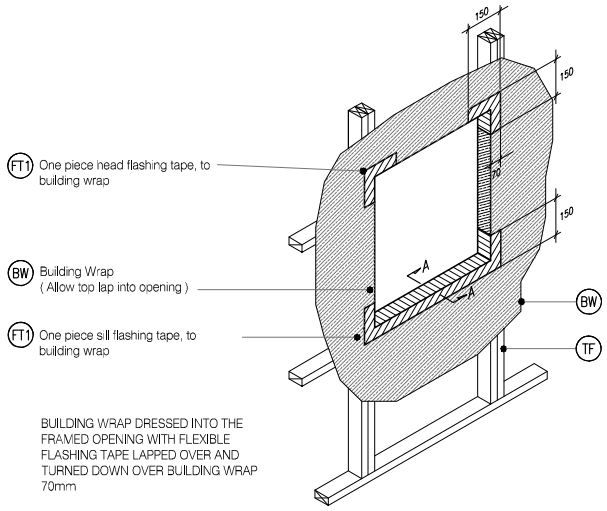
NAME Window Jamb Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

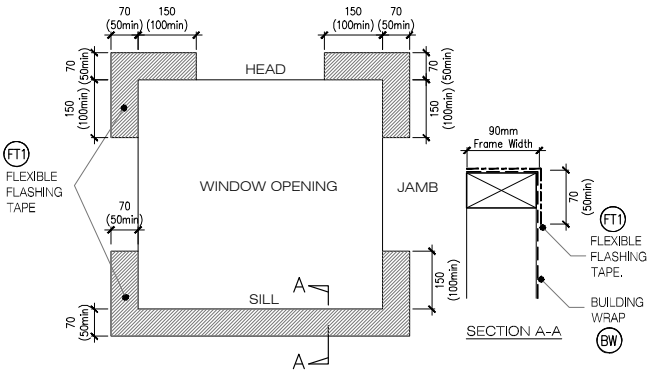
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB12	0

KLC DF BB13 Window Details



W4 BB13 TYPICAL WINDOW OPENING (FLASHING TAPE)
SCALE : N.T.S



W5 BB13 FLEXIBLE BUILDING WRAP AT OPENING
SCALE : 1 / 5 @ A1, 1 / 10 @ A3

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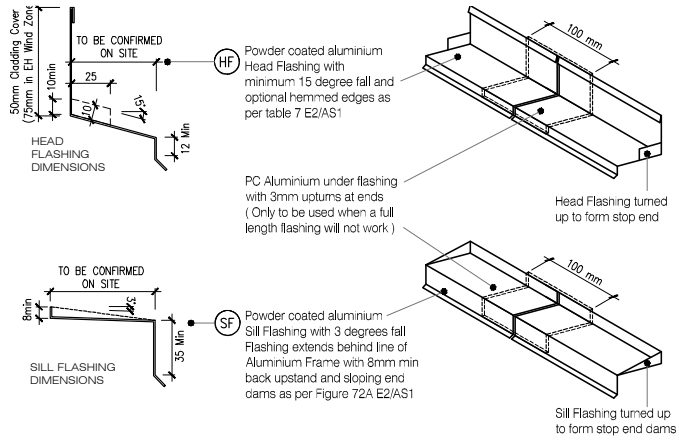

W6 BB13 TYPICAL HEAD & SILL FLASHINGS
SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF : KLC DF BB10-15 – WINDOW DETAILS.dwg
DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Window Flashing Details - Aluminium Joinery

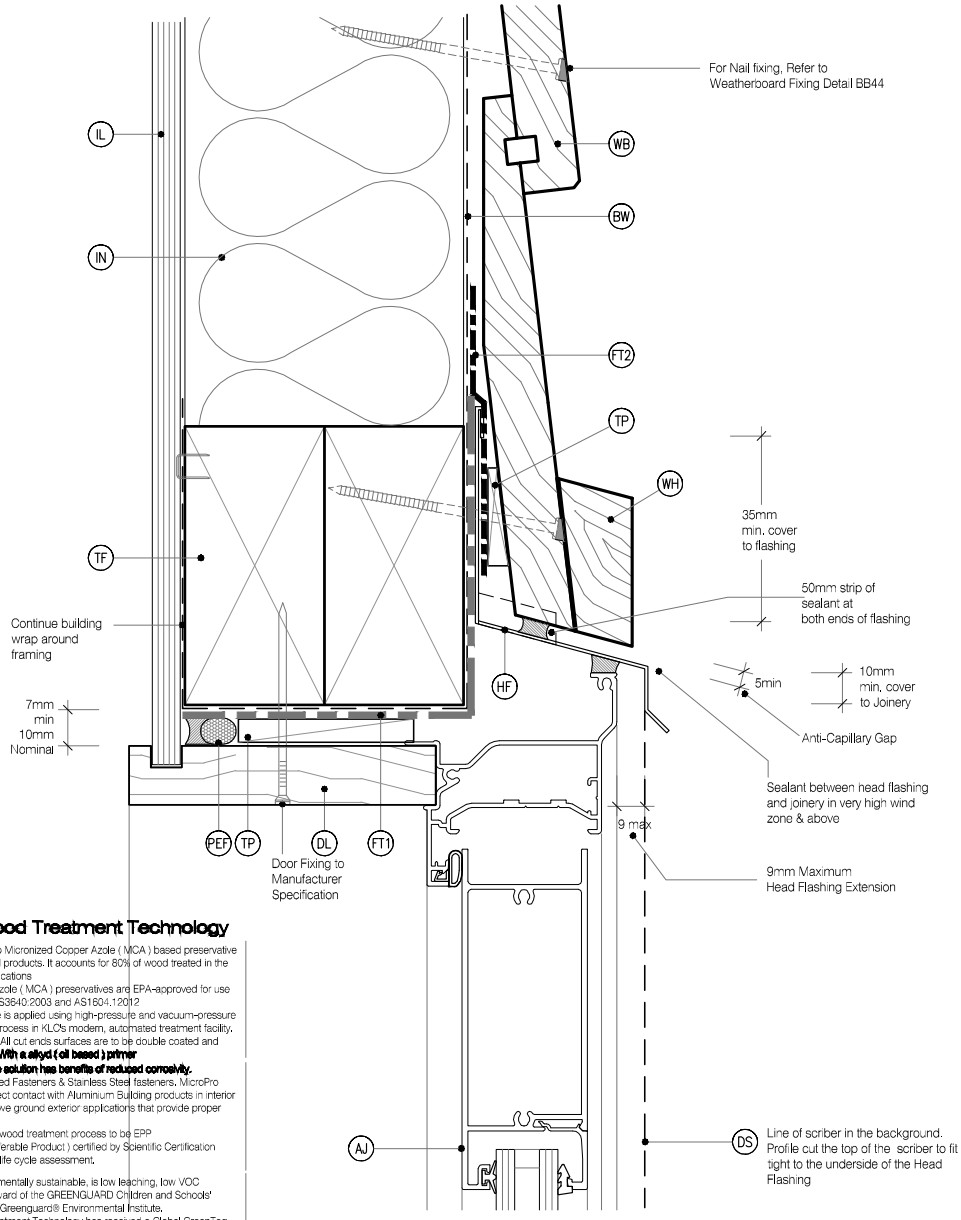
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:4 @ A4	20/11/2018
DRAWING No	REVISION
KLC DF BB13	0

KLC DF BB20 Door Details

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (SF) SILL FLASHING: Powder Coater Aluminium, extend behind line of Aluminium Frame with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- (JB) JAMB BATTENS: 20mm MicroPro H3.2. Batten stops short of sill flashing, Sill flashing runs under
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (DL) DOOR LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (DS) DOOR SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



MicroPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and **sealed before fixing. With a alkyd (oil based) primer**
5. **MicroPro preservative solution has benefits of reduced corrosivity.** Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC DF BB20-25 - DOOR DETAILS.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Door Head Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

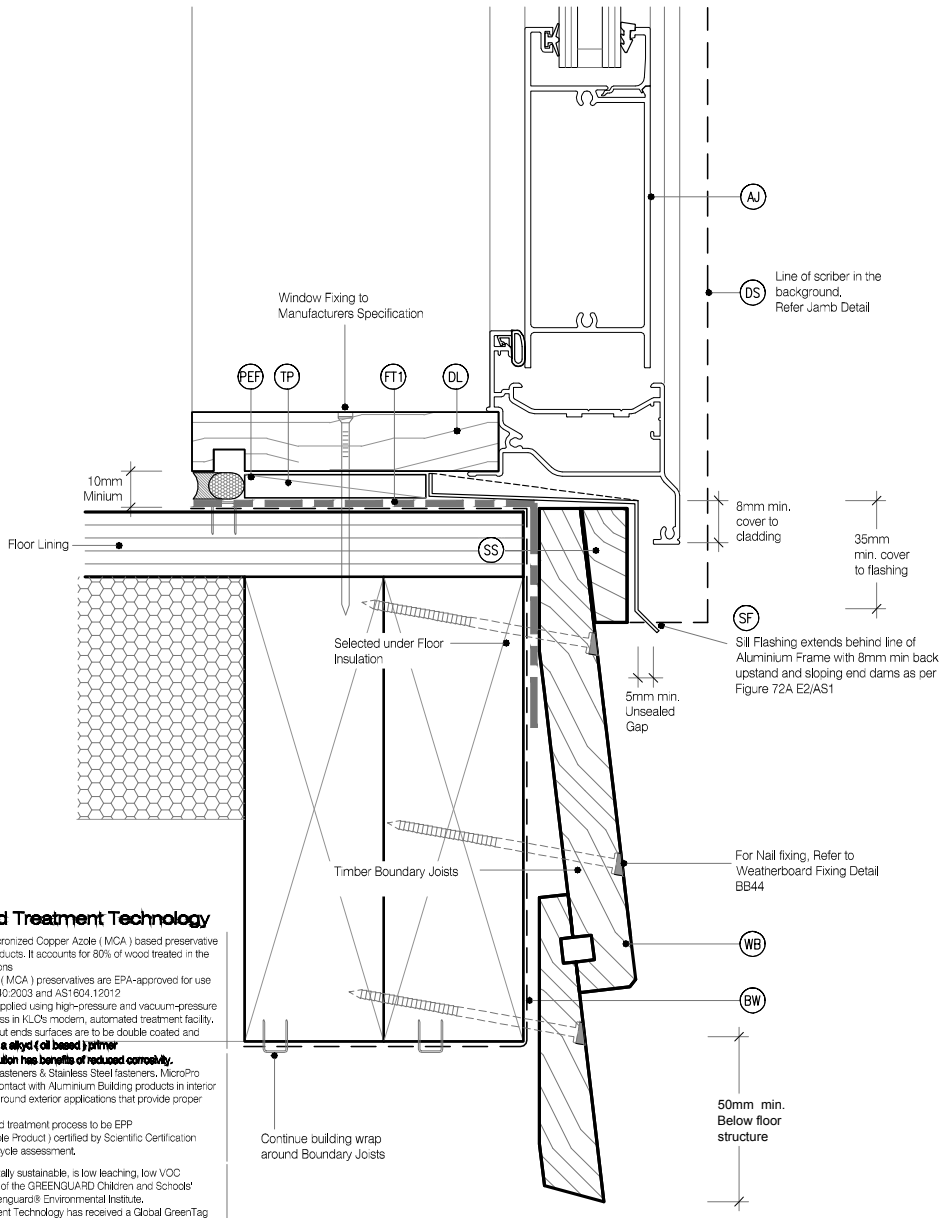
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB20	0

KLC DF BB21 Door Details

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (SF) SILL FLASHING: Powder Coater Aluminium, extend behind line of Aluminium Frame with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- (JB) JAMB BATTENS: 20mm MicroPro H3.2. Batten stops short of sill flashing, Sill flashing runs under
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (DL) DOOR LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (DS) DOOR SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and **sealed before fixing. With a alkyd (oil based) primer**

5. **MicroPro preservative solution has benefits of reduced corrosivity.** Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC DF BB20-25 - DOOR DETAILS.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Door Sill Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

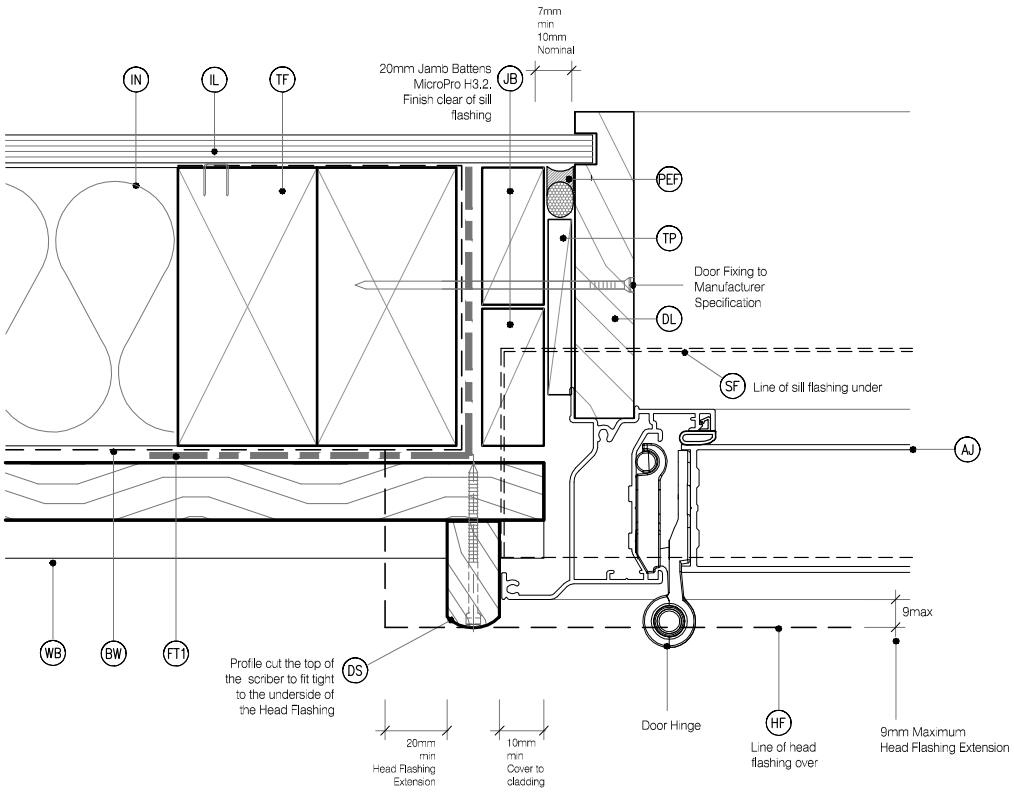
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB21	0

KLC DF BB22 Door Details

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (AJ) ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (SF) SILL FLASHING: Powder Coater Aluminium, extend behind line of Aluminium Frame with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- (JB) JAMB BATTENS: 20mm MicroPro H3.2. Batten stops short of sill flashing, Sill flashing runs under
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- (DL) DOOR LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (DS) DOOR SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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CAD REF : KLC DF BB20-25 - DOOR DETAILS.dwg
DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

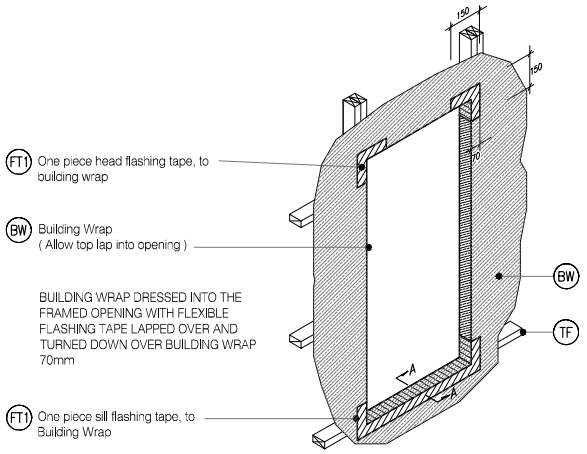
NAME Door Jamb Detail - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

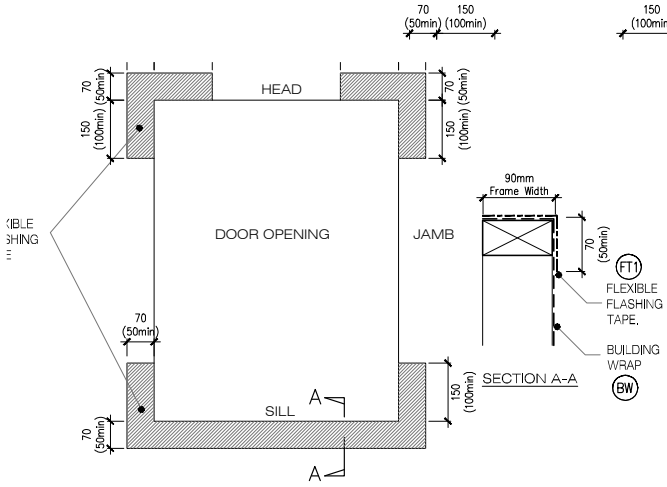
DRAWING No	REVISION
KLC DF BB22	0

KLC DF BB23 Door Details



D4 BB23 TYPICAL DOOR OPENING (FLASHING TAPE)

SCALE : N.T.S



D5 BB23 FLEXIBLE BUILDING WRAP AT OPENING

SCALE : 1 / 5 @ A1, 1 / 10 @ A3

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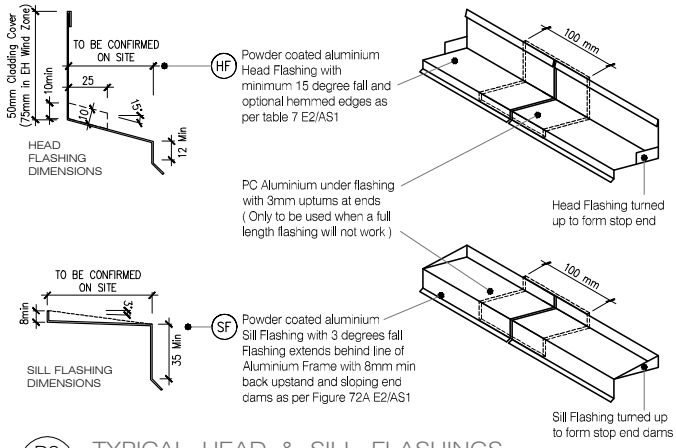

D6 BB23 TYPICAL HEAD & SILL FLASHINGS

SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF : KLC DF BB20-25 - DOOR DETAILS.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Door Flashing Details - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

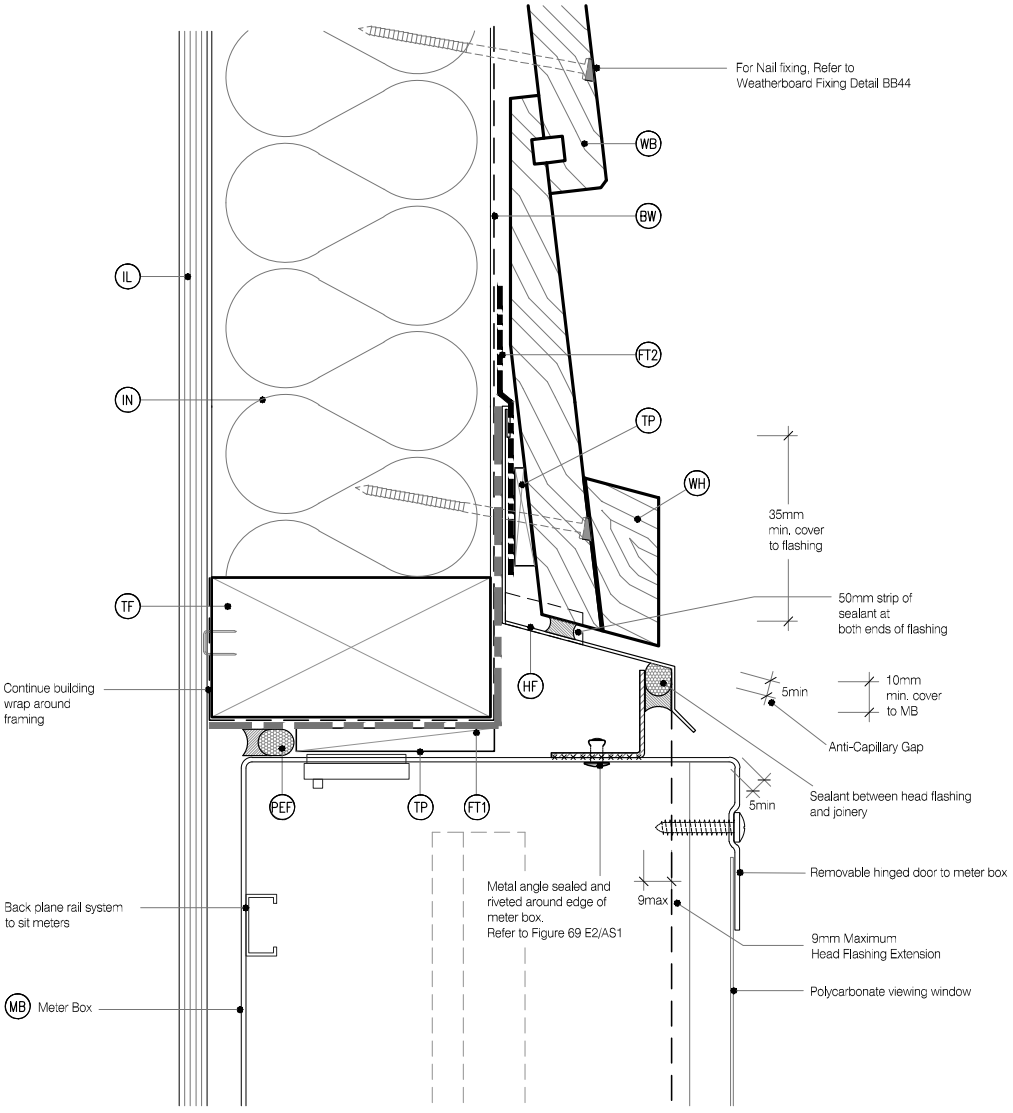
DRAWING SCALE	ISSUE DATE
1:4 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB23	0

KLC DF BB30 Meter Box

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in meter box perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (MB) METER BOX: Electrical meter box, with removable hinged door and polycarbonate viewing window
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (SF) SILL FLASHING: Powder Coater Aluminium, with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under meter box as necessary to suit profile
- (MS) METER BOX SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber. 40x18 or 65x18 depending on weatherboard size



MicoPro® Wood Treatment Technology

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3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
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8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC DF BB30-35 - METER BOX.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Meter Box - Head Detail

CODEMARK AQ-020216-CMNZ

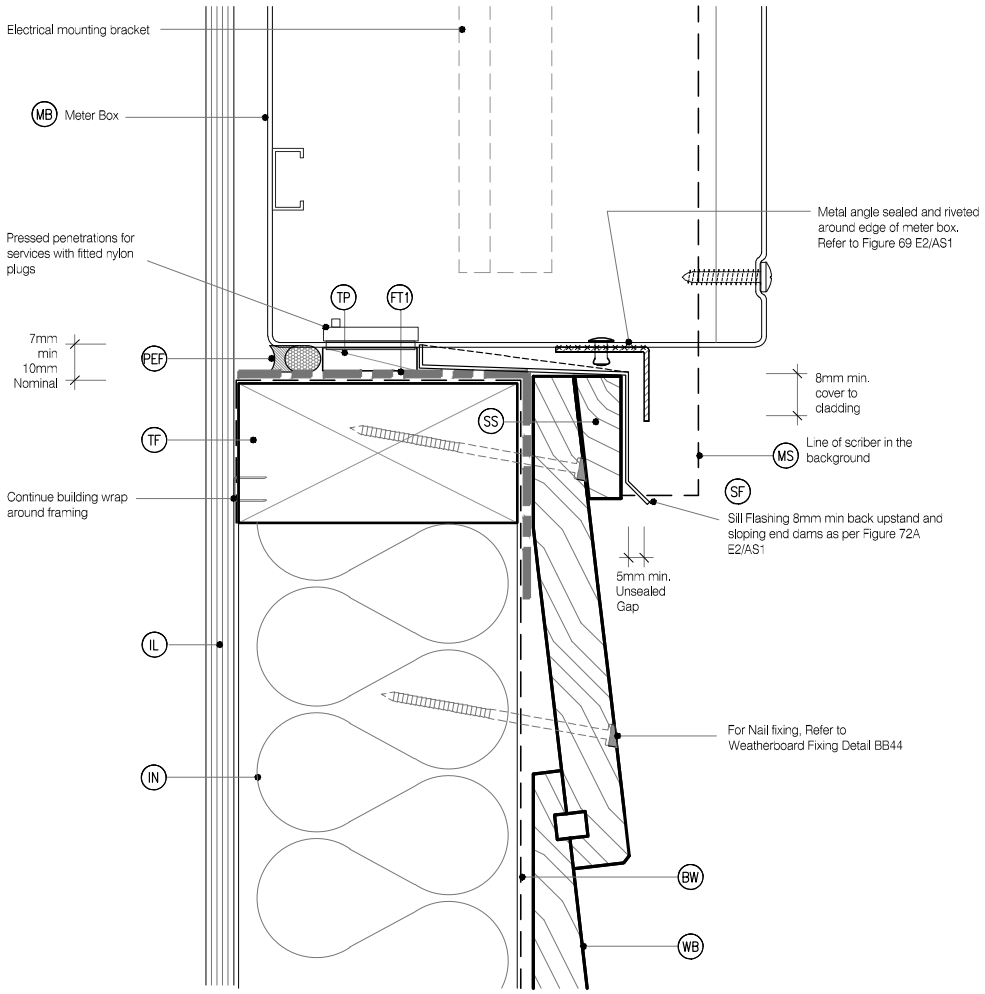
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB30	0

KLC DF BB31 Meter Box

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in meter box perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (MB) METER BOX: Electrical meter box, with removable hinged door and polycarbonate viewing window
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (SF) SILL FLASHING: Powder Coater Aluminium, with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under meter box as necessary to suit profile
- (MS) METER BOX SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber. 40x18 or 65x18 depending on weatherboard size



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CAD REF : KLC DF BB30-35 - METER BOX.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Meter Box - Sill Detail

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB31	0

KLC DF BB32 Meter Box

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to cavity in meter box perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (MB) METER BOX: Electrical meter box, with removable hinged door and polycarbonate viewing window
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (SF) SILL FLASHING: Powder Coater Aluminium, with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (FT1) FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- (FT2) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (HF) HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- (TP) TIMBER PACKER: MicroPro H3.2 Treated Packer
- (WH) WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of sill scriber
- (SS) SILL SCRIBER: MicroPro H3.2, Horizontal batten under meter box as necessary to suit profile
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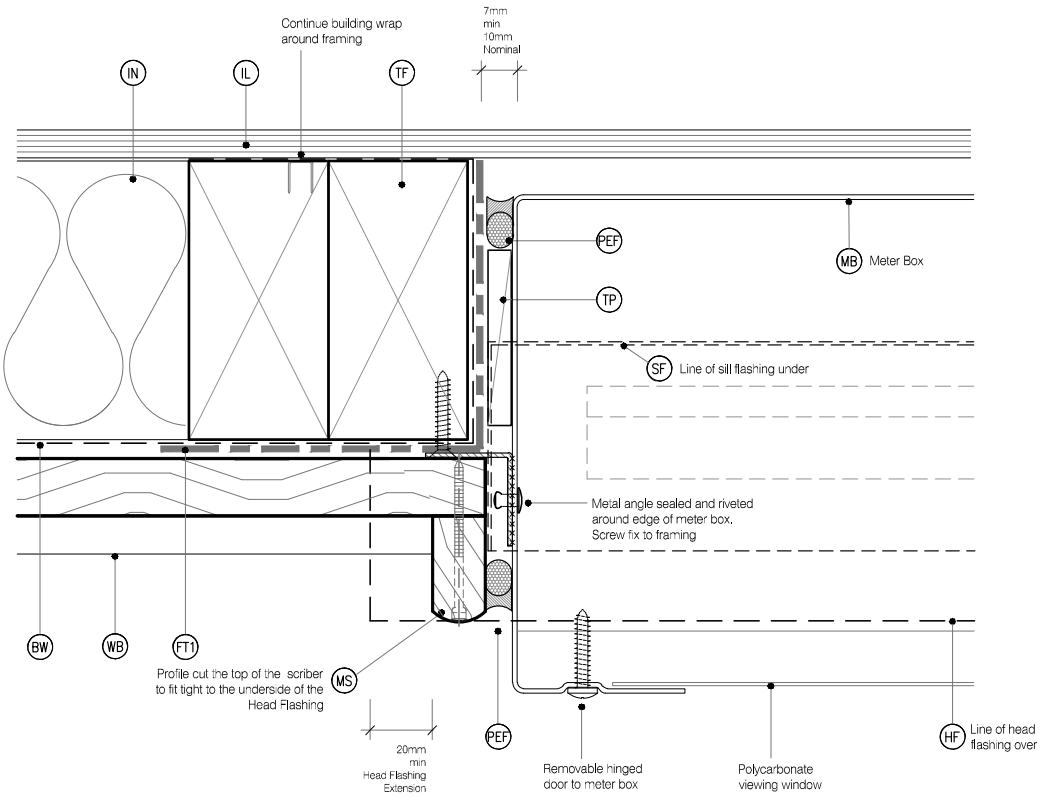

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7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the awsrd of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC DF BB30-35 - METER BOX.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

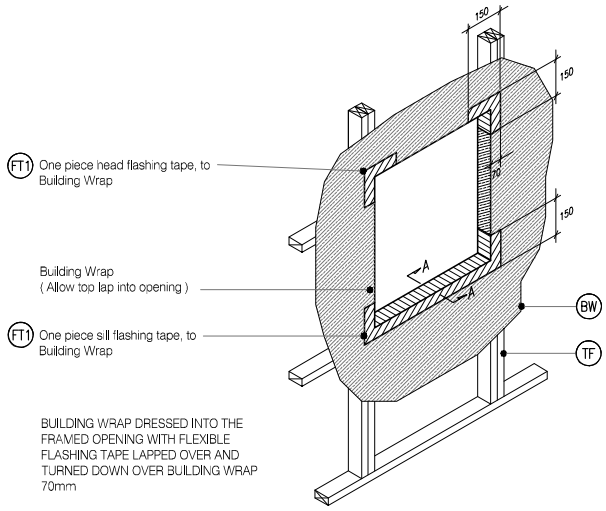
NAME Meter Box - Jamb Detail

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

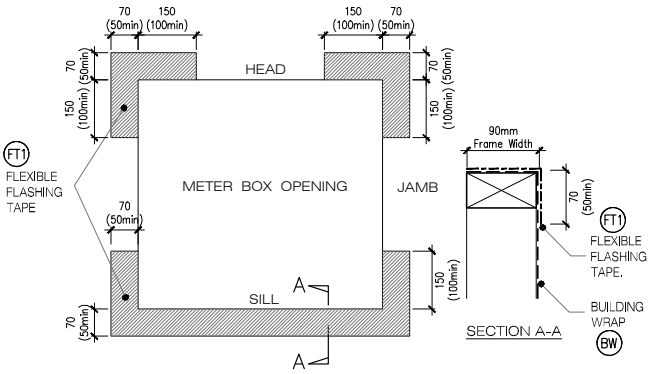
DRAWING No	REVISION
KLC DF BB32	0

KLC DF BB33 Meter Box



M4 BB33 TYPICAL METER BOX OPENING (FLASHING TAPE

SCALE : N.T.S



M5 BB33 FLEXIBLE BUILDING WRAP AT OPENING

SCALE : 1 / 5 @ A1, 1 / 10 @ A3

MicoPro® Wood Treatment Technology

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4. Cut End Treatment : All cut ends surfaces are to be double coated and **sealed before fixing. With a alkyd (oil based) primer**
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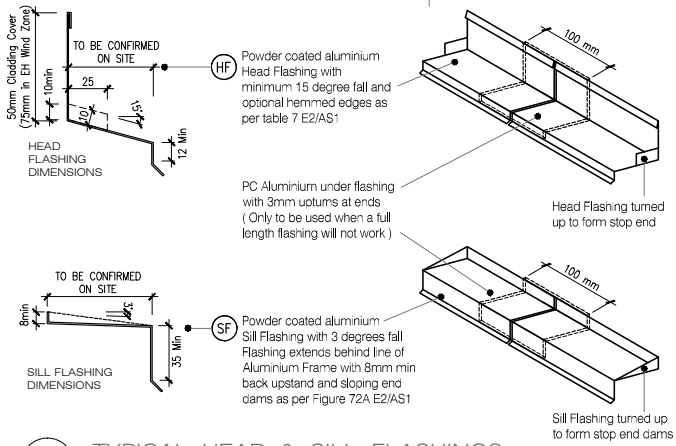

M6 BB33 TYPICAL HEAD & SILL FLASHINGS

SCALE : 1 / 2 @ A1, 1 / 4 @ A3

CAD REF : KLC DF BB30-35 – METER BOX.dwg
DATE : 20/11/2018

Naturally Better

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Meter Box - Flashing Details

CODEMARK AQ-020216-CMNZ

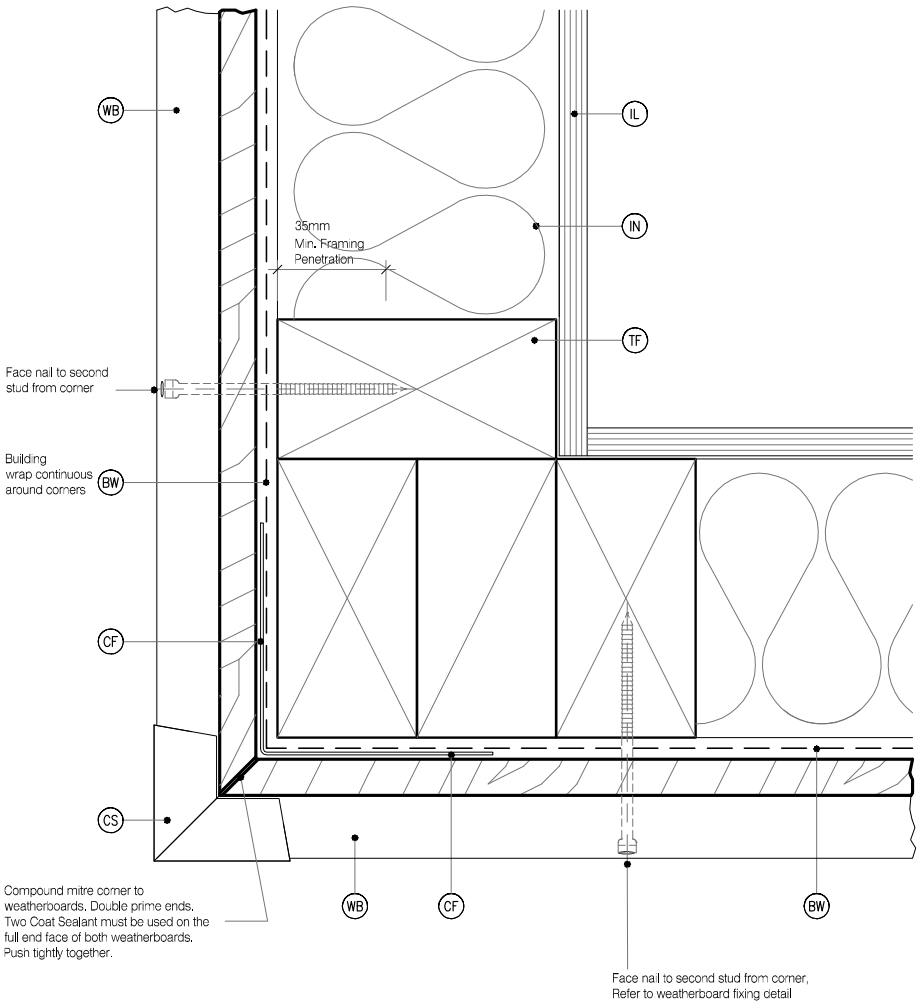
DRAWING SCALE	ISSUE DATE
1:4 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB33	0

KLC DF BB40 External Corner Soaker

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



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CAD REF : KLC DF BB40-46 - GENERAL DETAILS 01.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME External Corner Soaker

CODEMARK AQ-020216-CMNZ

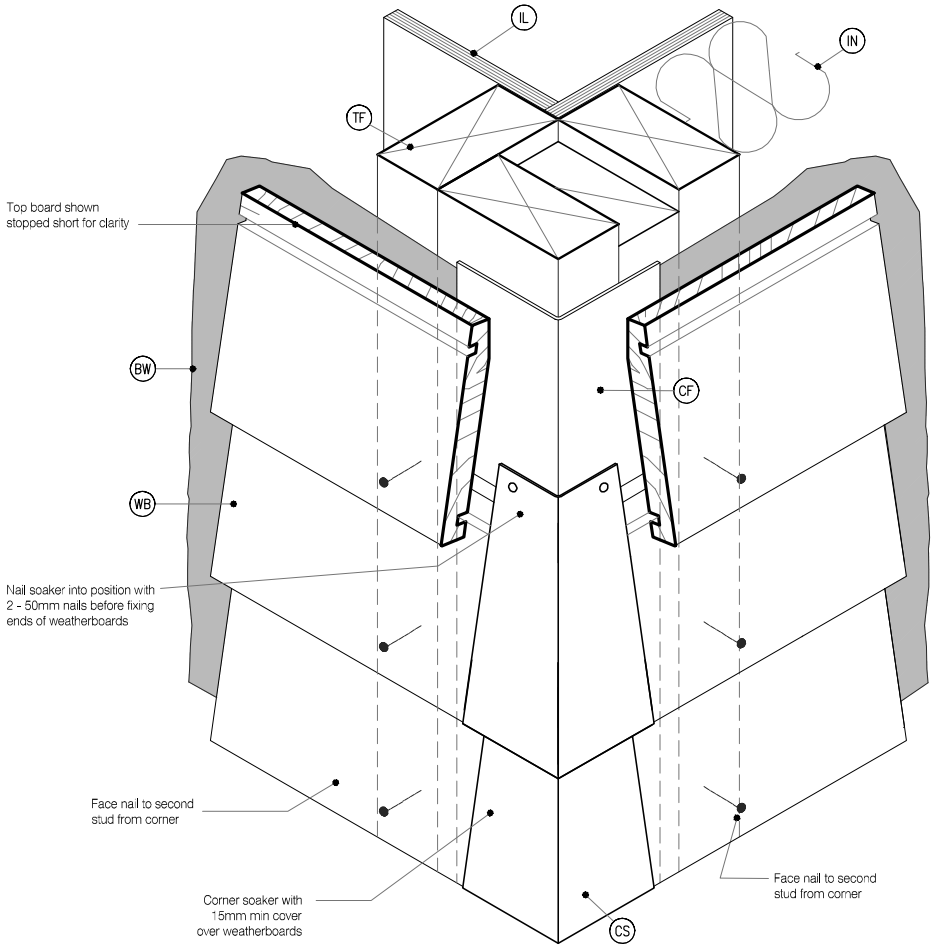
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB40	0

KLC DF BB41 External Corner Soaker

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



Soaker material	Nail material
Copper	Copper or phosphor bronze
Aluminium	Hot dip galvanised
Stainless steel	Stainless steel

MicoPro® Wood Treatment Technology

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CAD REF : KLC DF BB40-46 - GENERAL DETAILS 01.dwg
DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME 3D - External Corner Soaker

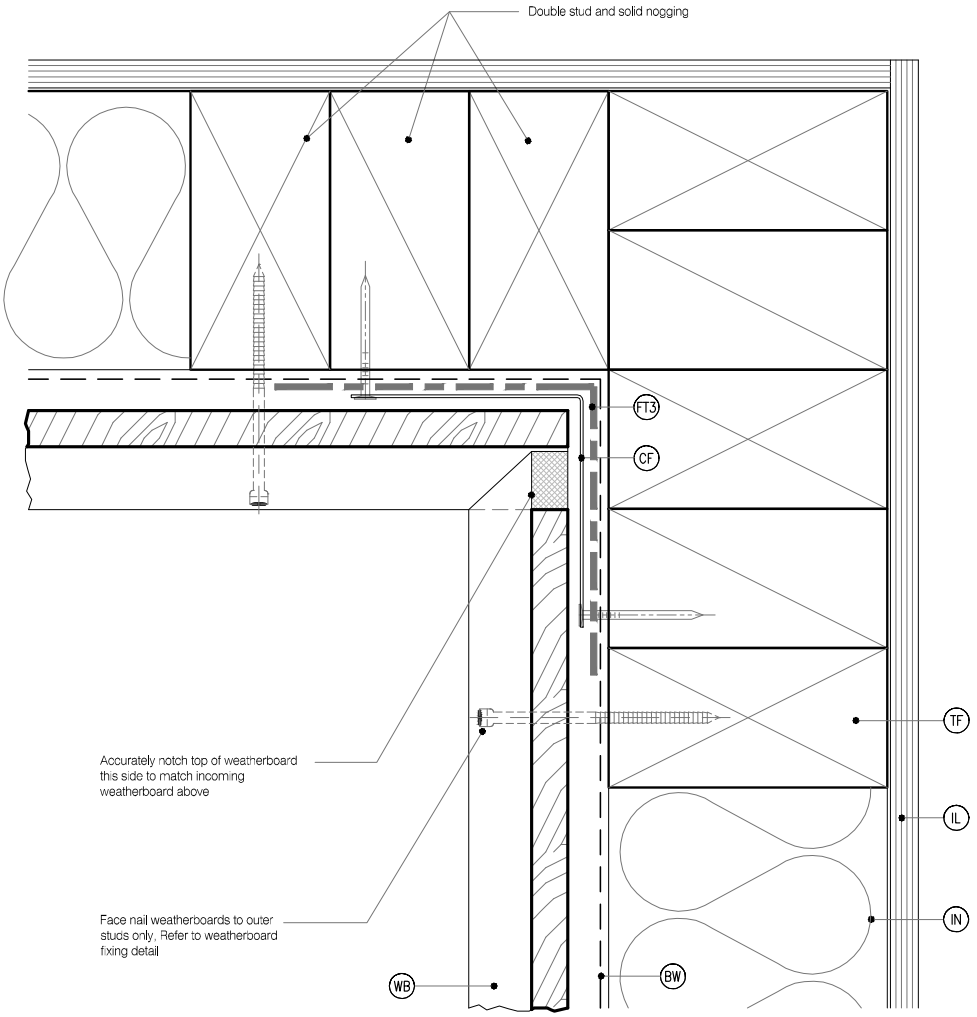
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018
DRAWING No	REVISION
KLC DF BB41	0

KLC DF BB42 Internal Corner

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
  50x50 Hem or Hook to Flashing Edges
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



DETAIL NOTES:

1. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1
2. Aluminium extrusion must not be continuous over solid floor joists.

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CAD REF : KLC DF BB40-46 - GENERAL DETAILS 01.dwg
DATE : 20/11/2018

KLC Naturally Better
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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Internal Corner

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB42	0

KLC DF BB43 Internal Corner

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
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- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
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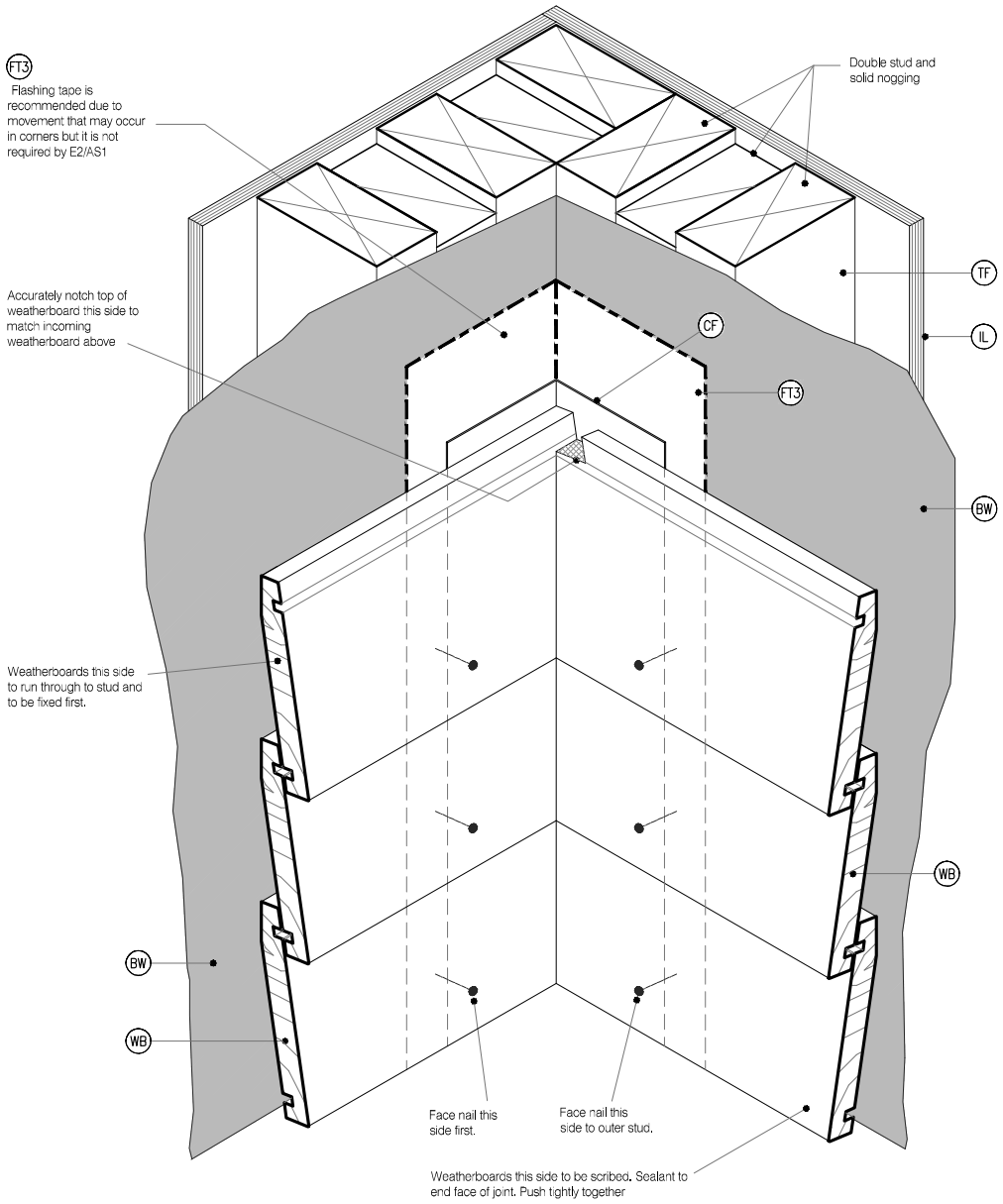
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



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CAD REF : KLC DF BB40-46 - GENERAL DETAILS 01.dwg
DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME 3D - Internal Corner

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB43	0

KLC DF BB44 Weatherboard Fixing

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (IN) INSULATION: Selected Insulation
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3
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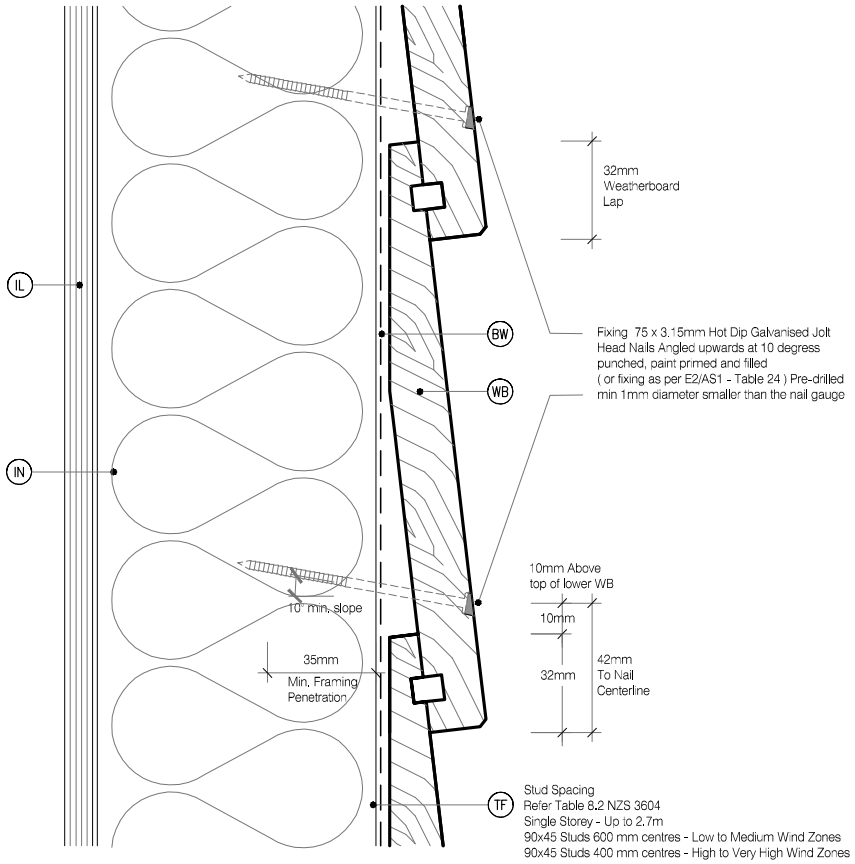
  75x75 NO, Hem or Hook Required
  EXTRA HIGH WIND ZONE
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



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DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Weatherboard Fixing

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018
DRAWING No	REVISION
KLC DF BB44	0

KLC DF BB45 Scarf Joint

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (CS) CORNER SOAKER: With 15mm Min cover over weatherboards
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- (IN) INSULATION: Selected Insulation
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  75x75 NO, Hem or Hook Required
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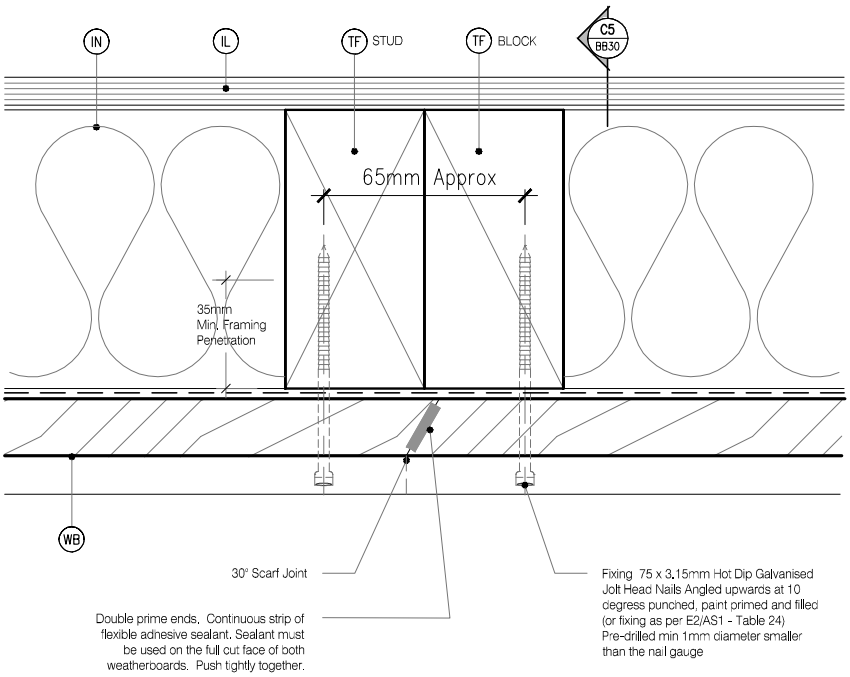
  100x100 Hem or Hook to Flashing Edges,
  Refer NZBC E2/AS1 4.5.1



When joining weatherboards a 30 ° Scarf joint is to be used. This joint must face away from the prevailing weather.
Alternatively a corrosion resistant soaker can be used, refer to E2/AS1 - 9.4.4.2 & Soakers materials to 4.32 to Paragraph 4.3.8

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DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Scarf Joint - Horizontal

CODEMARK AQ-020216-CMNZ

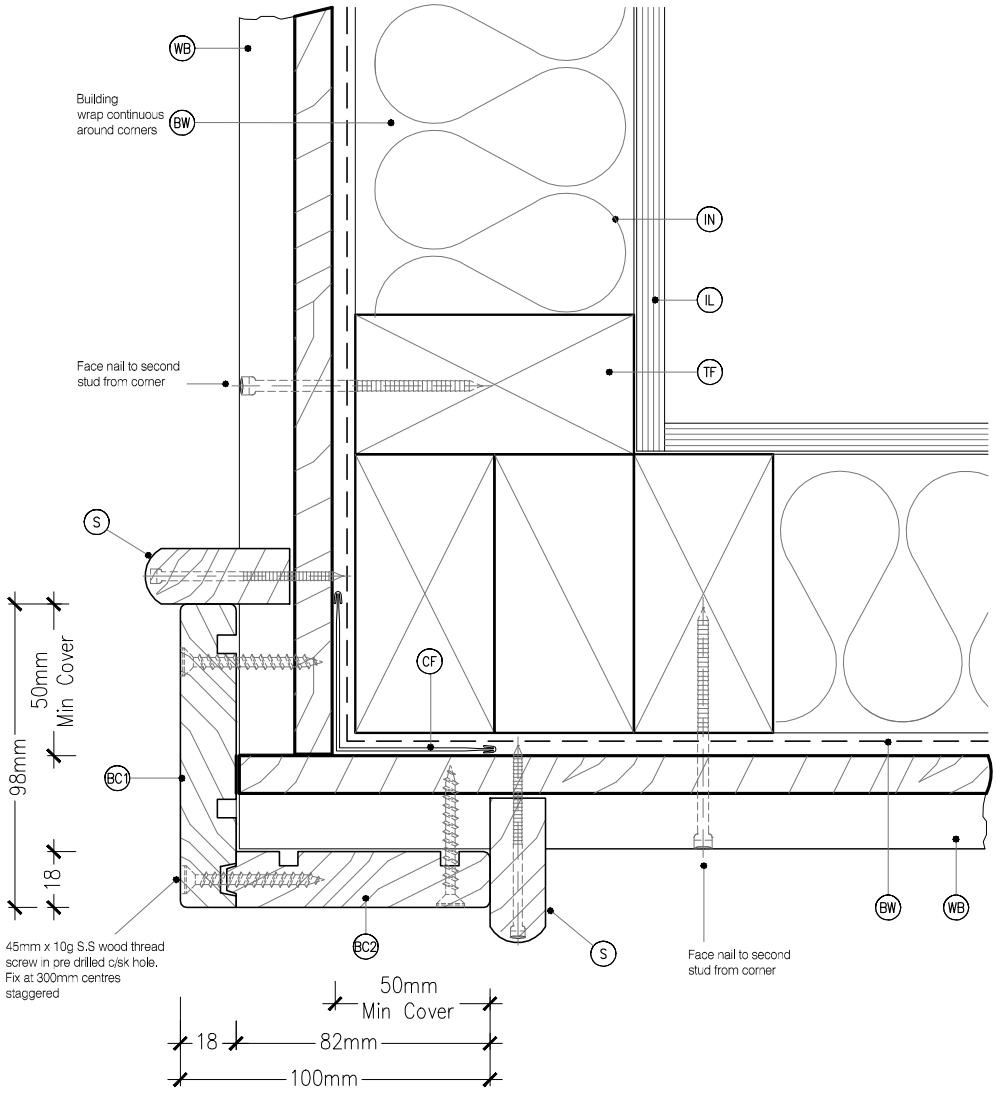
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB45	0

KLC DF BB50 External Boxed Corner

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (IN) INSULATION: Selected Insulation
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the awsrd of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC DF BB50-56 - GENERAL DETAILS 02.dwg
DATE : 20/11/2018

KLC Naturally Better
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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME External Boxed Corner

CODEMARK AQ-020216-CMNZ

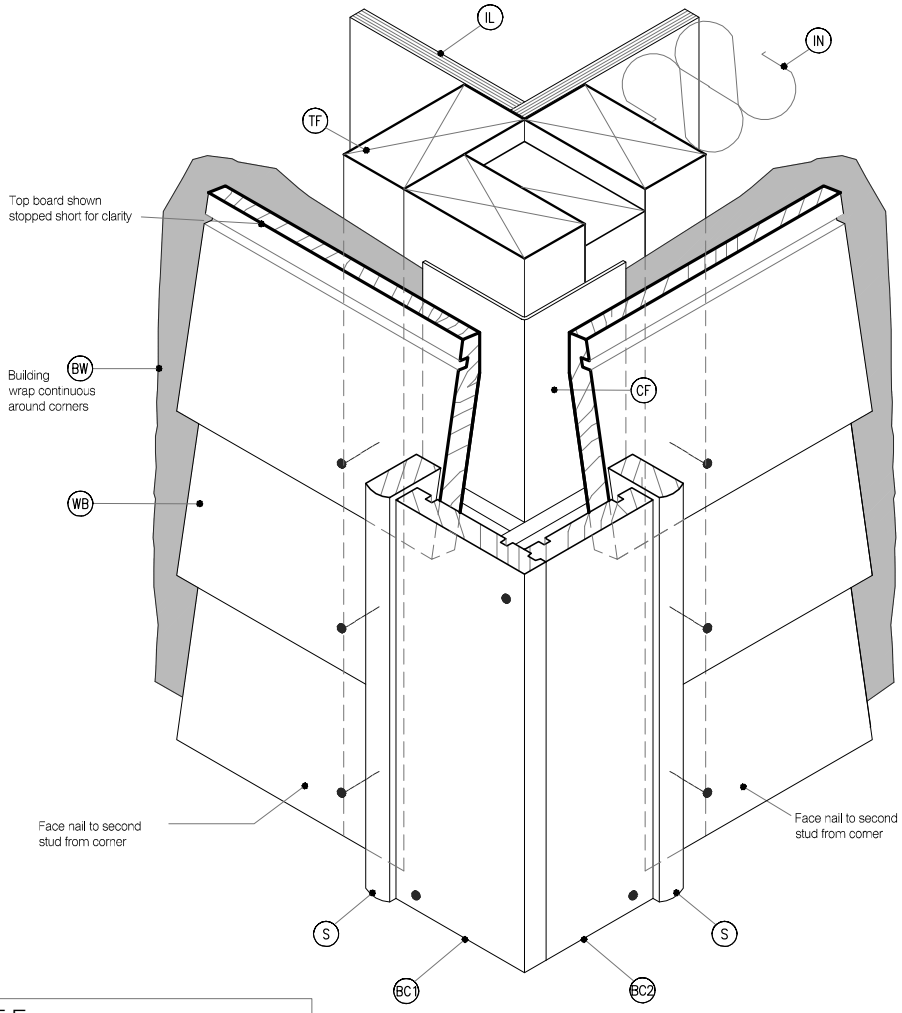
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB50	0

KLC DF BB51 External Boxed Corner

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (IN) INSULATION: Selected Insulation
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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

MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
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DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME 3D - External Boxed Corner

CODEMARK AQ-020216-CMNZ

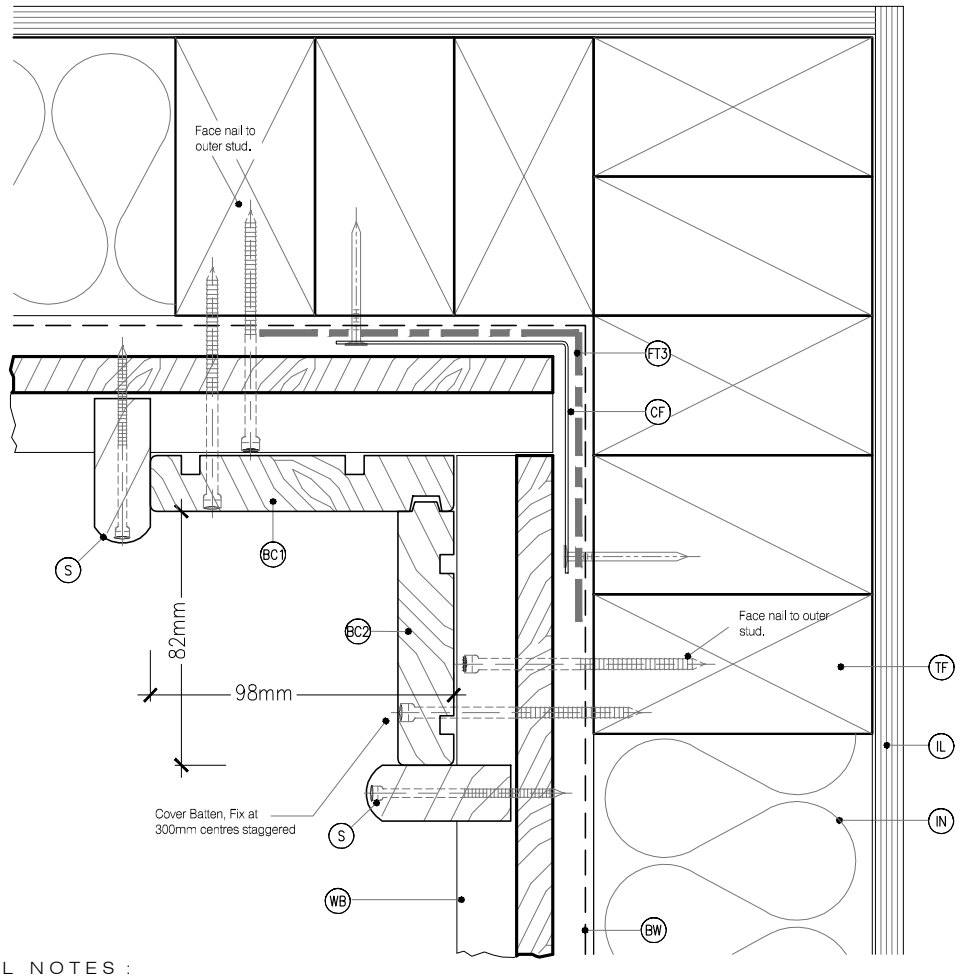
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB51	0

KLC DF BB52 Internal Boxed Corner

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (IN) INSULATION: Selected Insulation
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



DETAIL NOTES :

1. Aluminium extrusion must not be continuous over solid floor joists.
2. Corner Flashing is recommended but not required by E2/AS1
3. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1

MicoPro® Wood Treatment Technology

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DATE : 20/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Internal Boxed Corner

CODEMARK AQ-020216-CMNZ

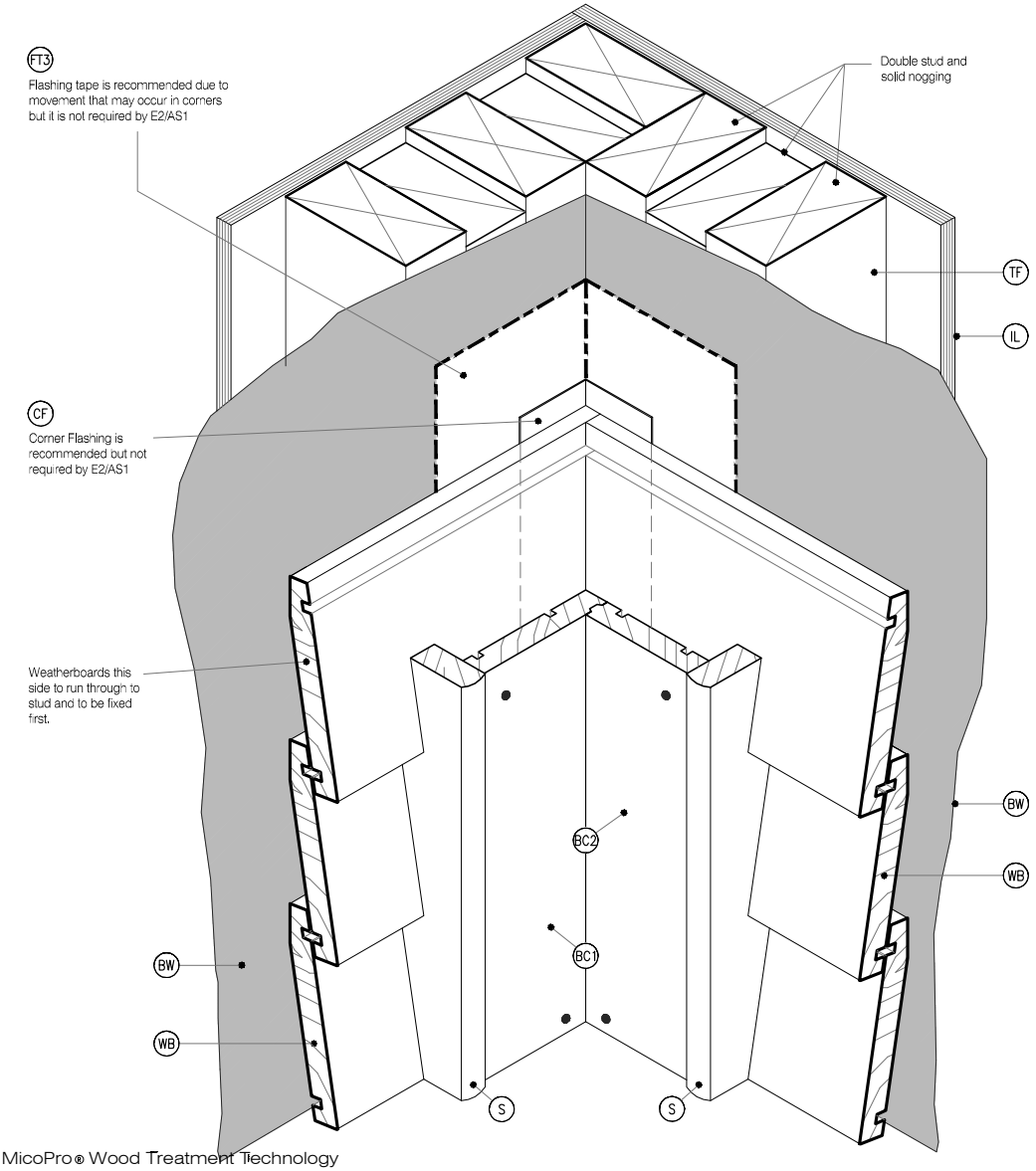
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB52	0

KLC DF BB53 Internal Boxed Corner

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (IN) INSULATION: Selected Insulation
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME 3D - Internal Boxed Corner

CODEMARK AQ-020216-CMNZ

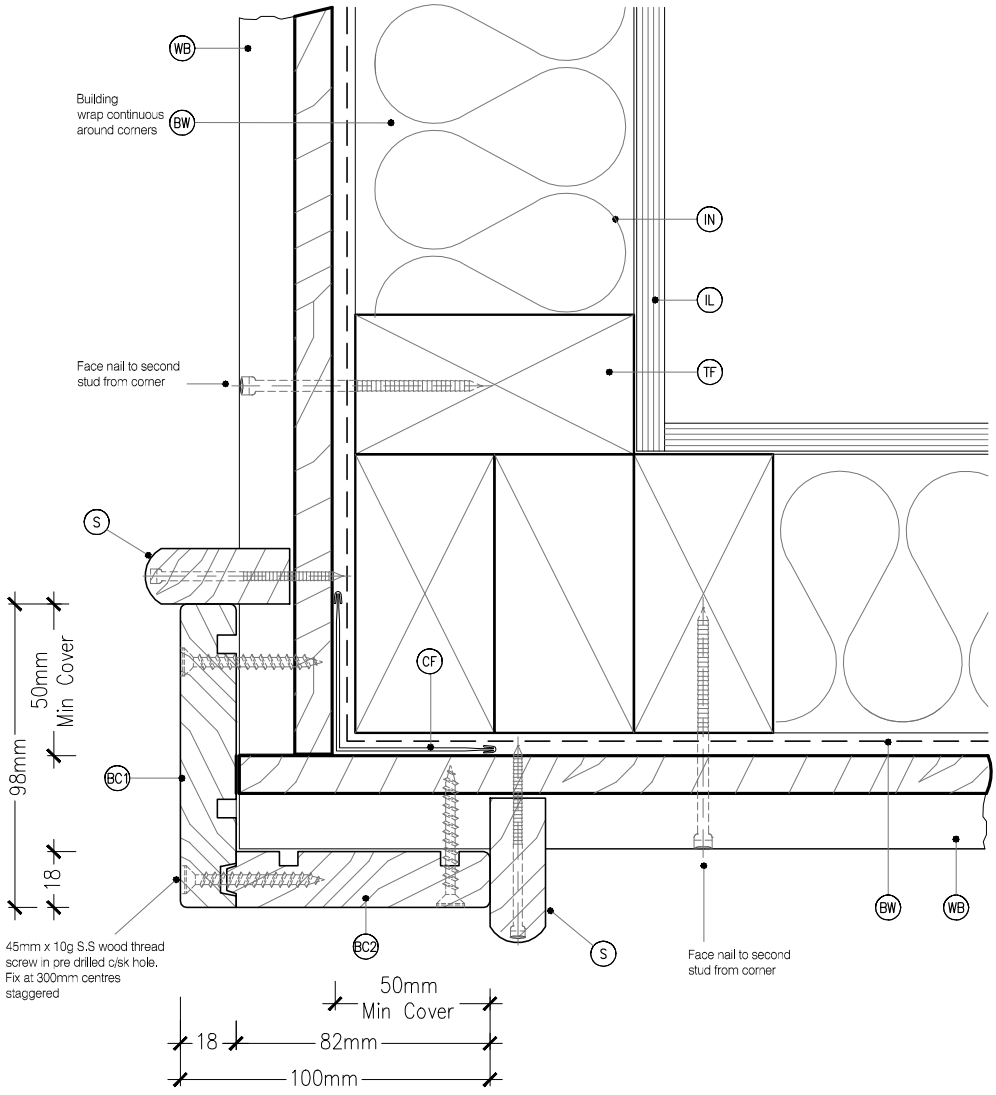
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB53	0

KLC DF BB54 External Boxed Corner

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (IN) INSULATION: Selected Insulation
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME External Boxed Corner

CODEMARK AQ-020216-CMNZ

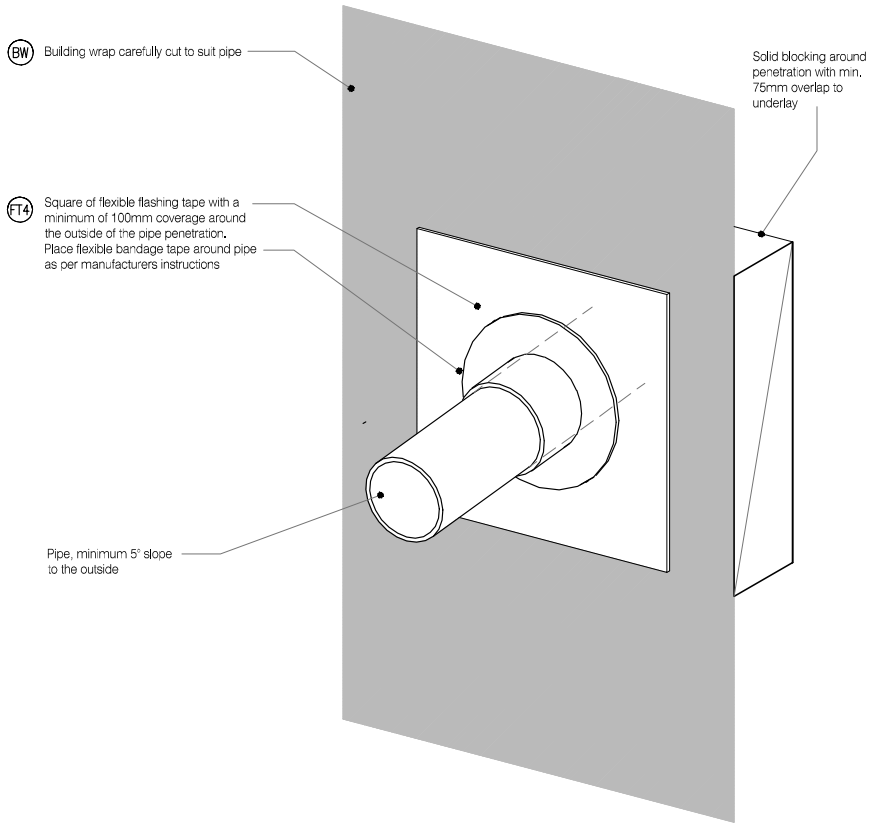
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB50	0

KLC DF BB55 Pipe Penetration

LEGEND:

- (PEF) PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (FT3) FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner, Refer NZBC E2/AS1 4.3.11
- (FT4) FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap, Refer NZBC E2/AS1 4.3.11 & Figure 68
- (IN) INSULATION: Selected Insulation
- (BC1) BOXED CORNER COVER : 98x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (BC2) BOXED CORNER COVER: 85x18 KLC Generation II, MicroPro H3.2 Cover Batten to boxed corners
- (CF) CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO. Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- (S) SCRIBER: KLC Generation II, MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size



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CAD REF : KLC DF BB50-56 - GENERAL DETAILS 02.dwg
DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME 3D - Pipe Penetration

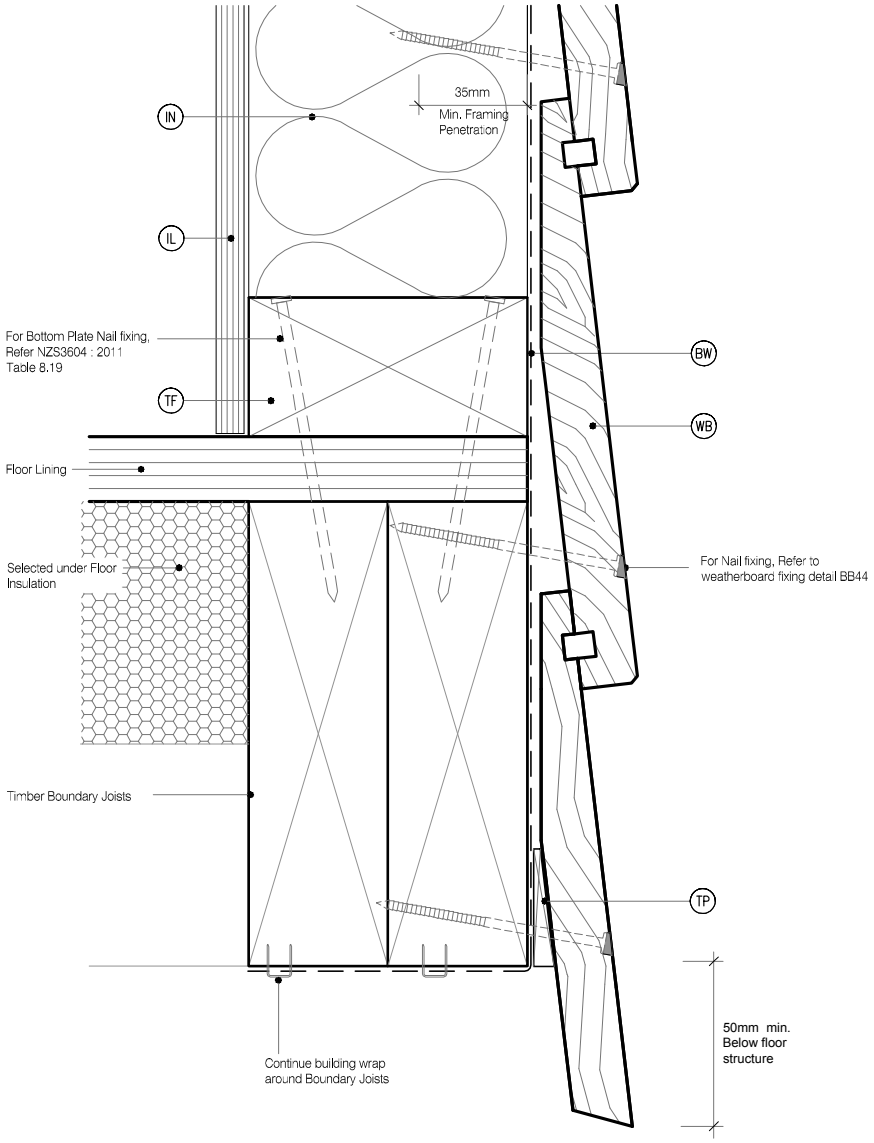
CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018
DRAWING No	REVISION
KLC DF BB55	0

KLC DF BB60 Base of Wall Timber

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1



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CAD REF : KLC DF BB60-66 - GENERAL DETAILS 03.dwg
DATE : 20/11/2018

KLC Naturally Better
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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Base of Wall, Timber

CODEMARK AQ-020216-CMNZ

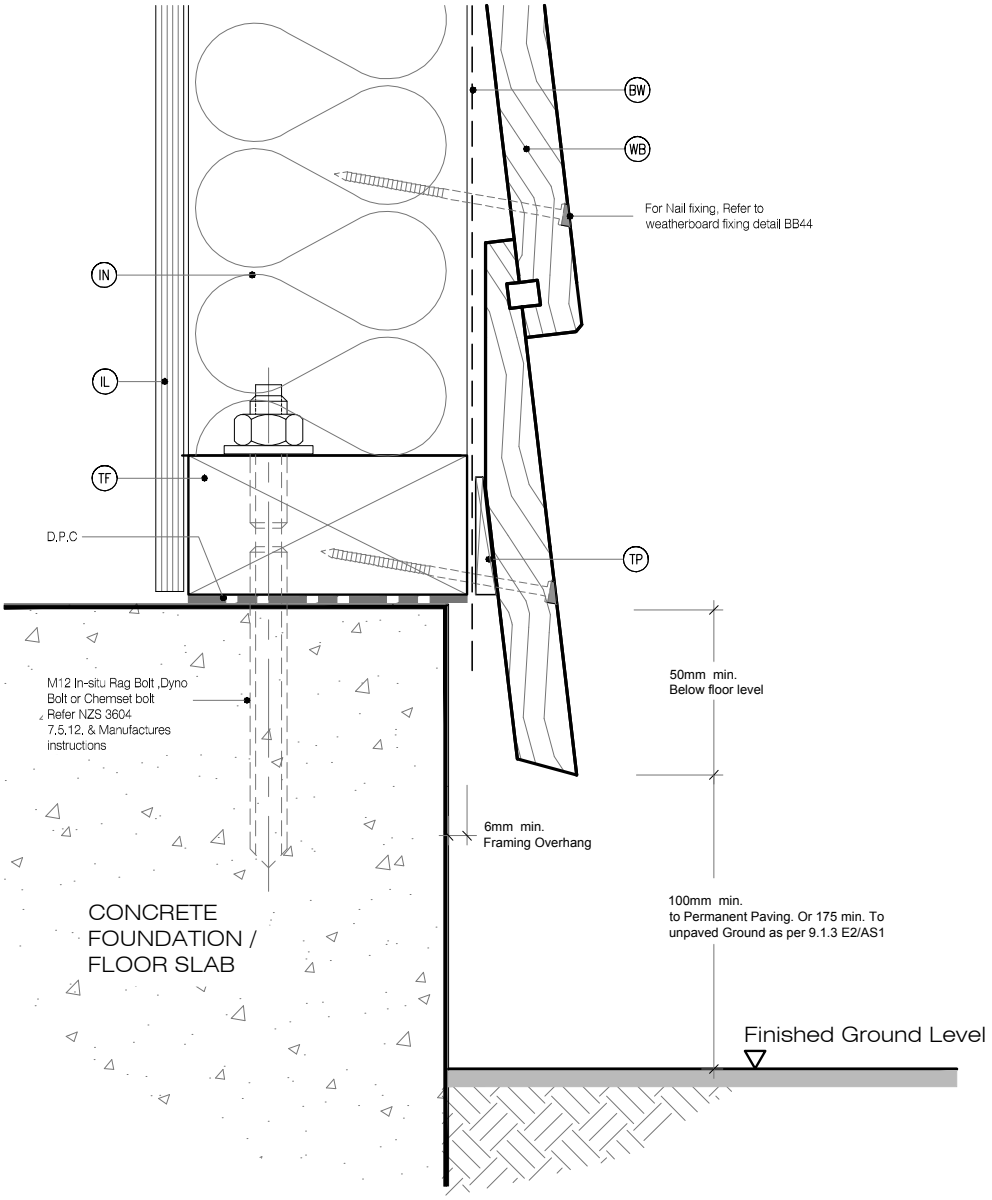
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB60	0

KLC DF BB61 Base of Wall Concrete

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1



MicoPro® Wood Treatment Technology

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8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

CAD REF : KLC DF BB60-66 - GENERAL DETAILS 03.dwg
DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Base of Wall, Concrete

CODEMARK AQ-020216-CMNZ

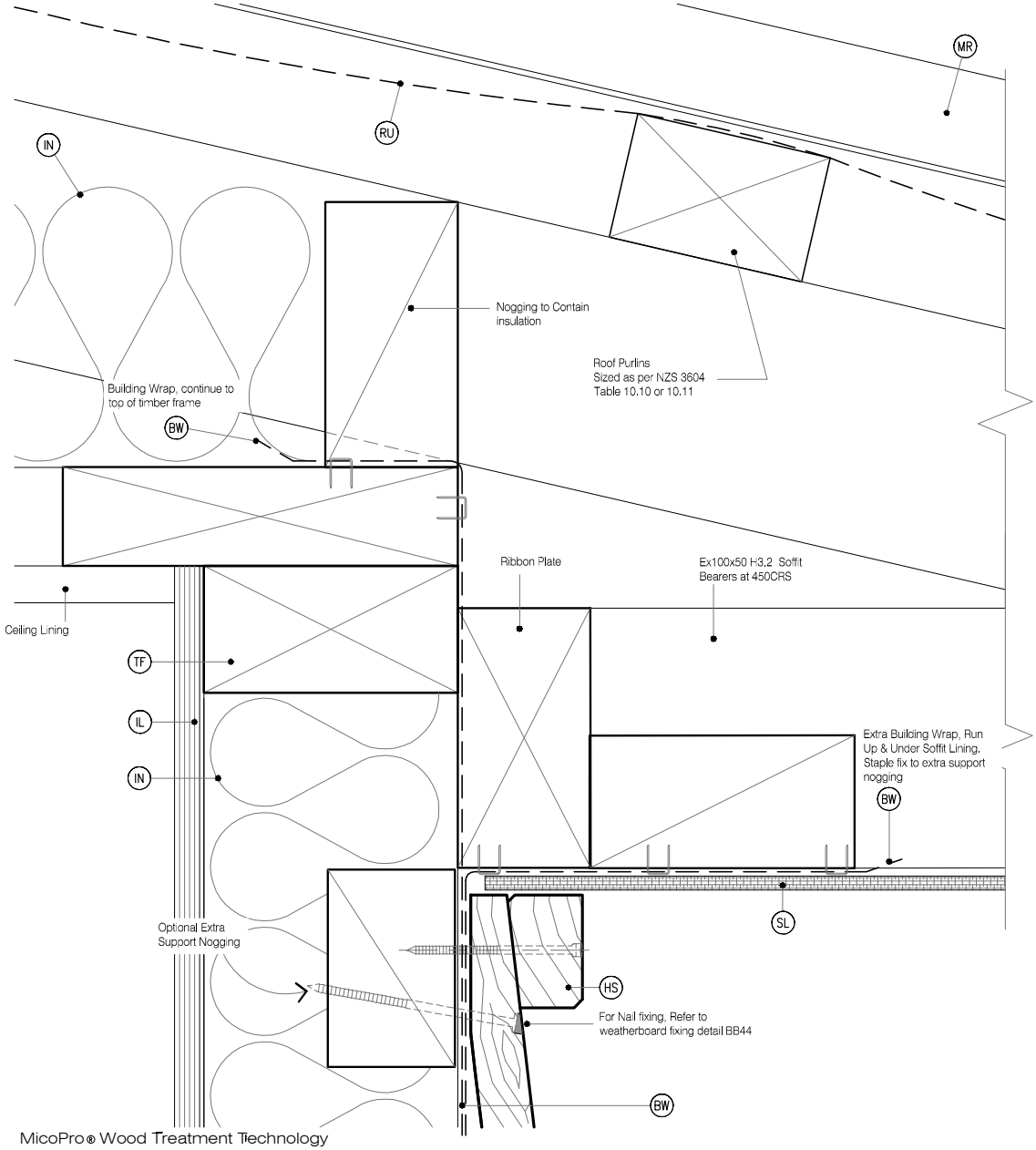
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB61	0

KLC DF BB62 Soffit Detail at Wall

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1



MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
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DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Soffit Detail at Wall

CODEMARK AQ-020216-CMNZ

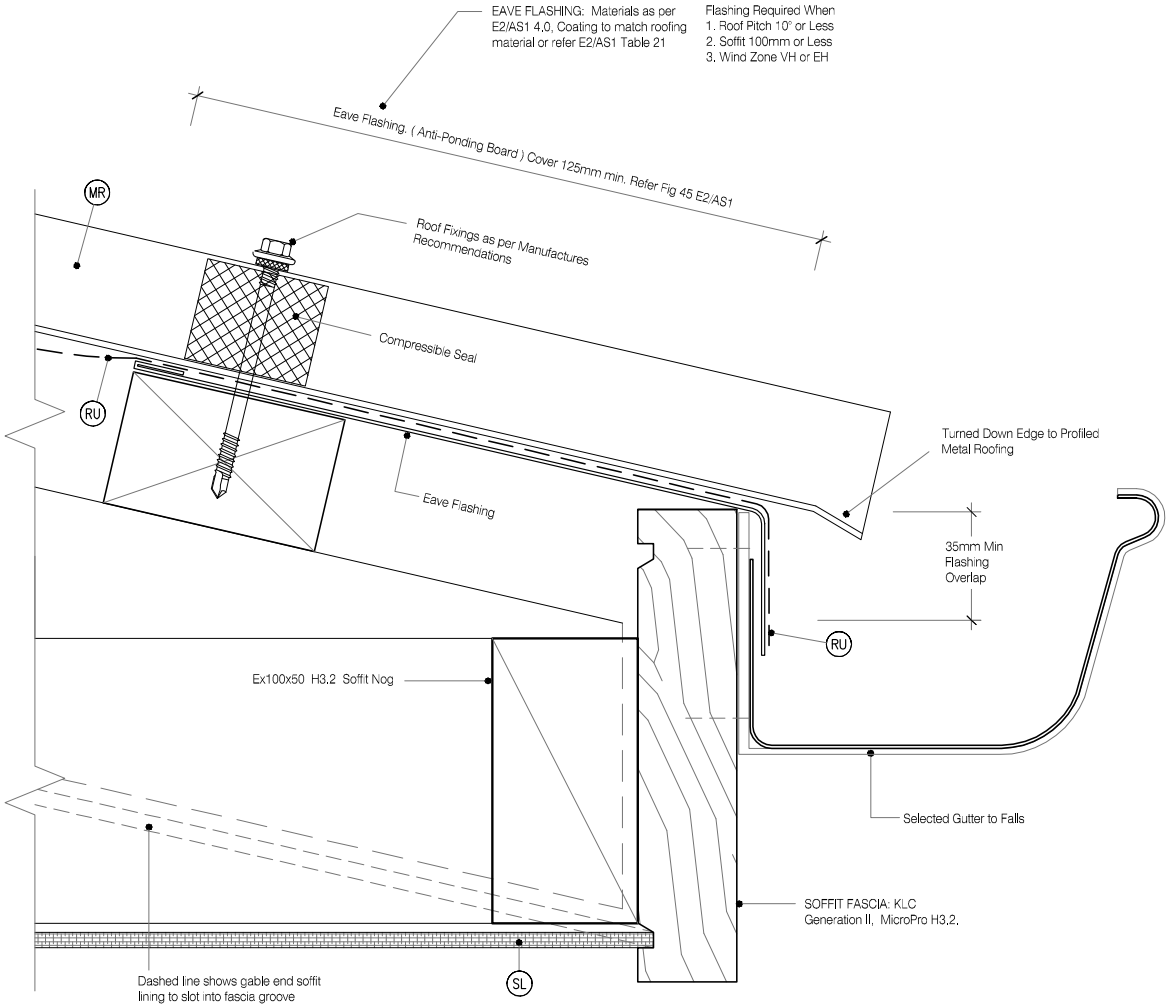
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB62	0

KLC DF BB63 Soffit Detail at Fascia

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1



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DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Soffit Detail at Fascia

CODEMARK AQ-020216-CMNZ

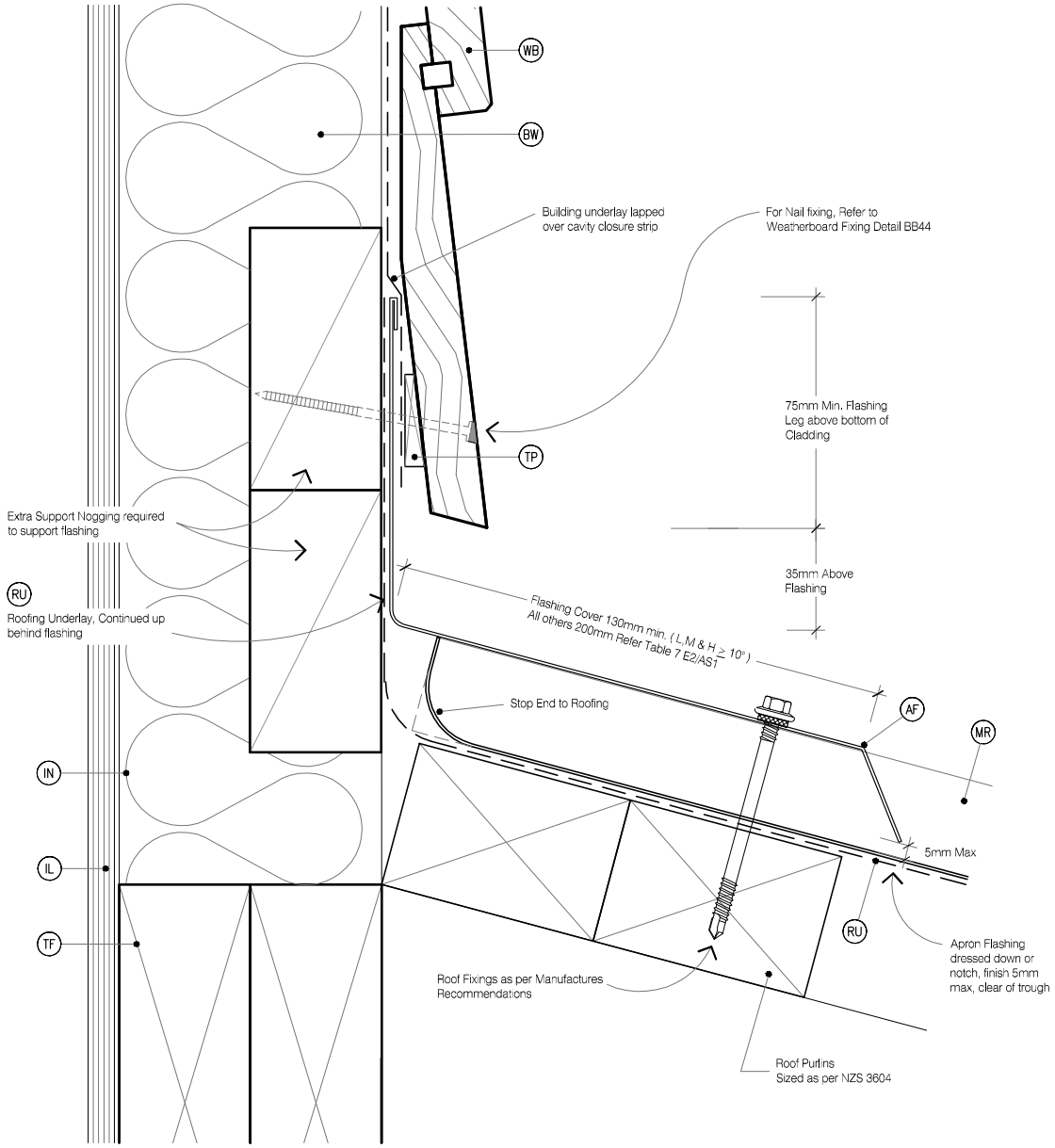
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB63	0

KLC DF BB64 Apron Flashing

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1



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DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Apron Flashing - Roof to Wall Junction

CODEMARK AQ-020216-CMNZ

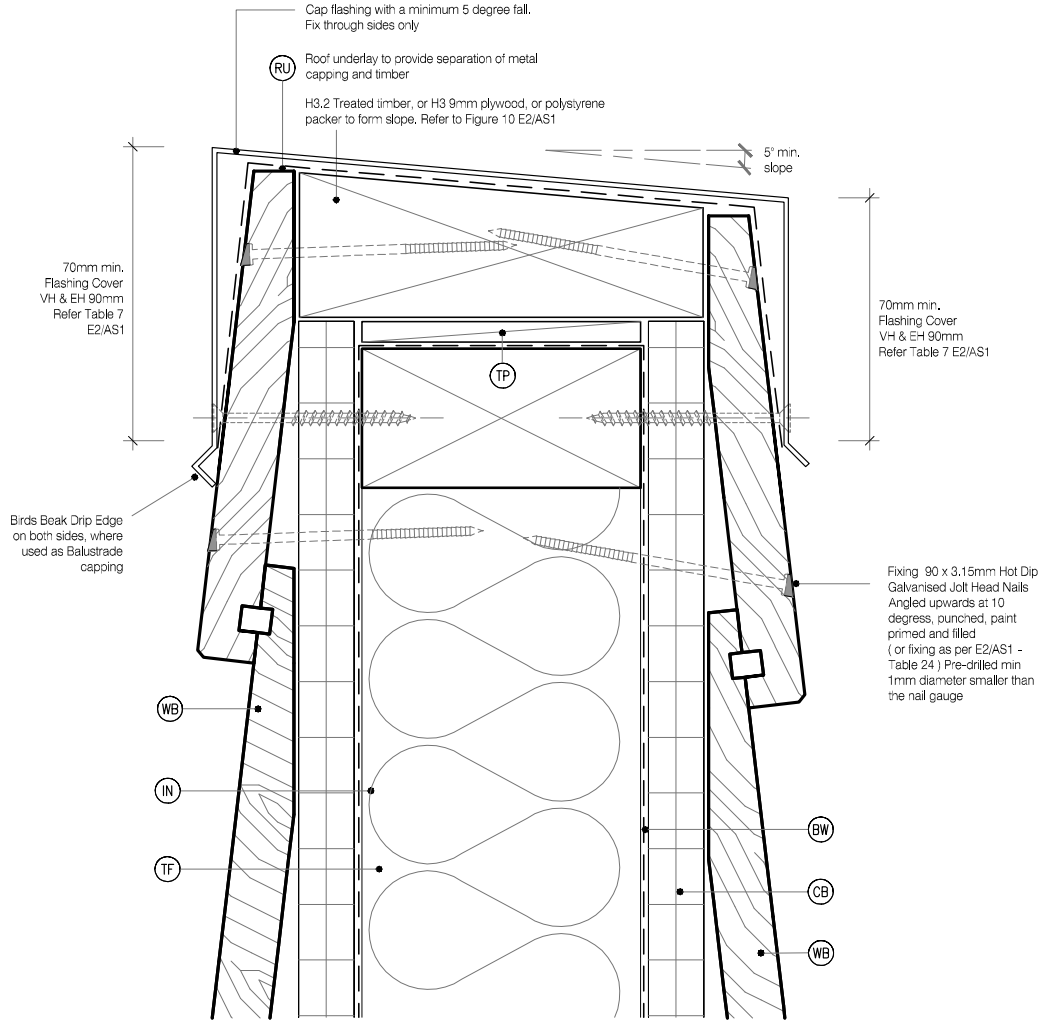
DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB64	0

KLC DF BB65 Balustrade Capping

LEGEND:

- (IL) INTERNAL LINING: Selected Internal Lining
- (BW) BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- (IN) INSULATION: Selected Insulation
- (TF) TIMBER FRAME: H1.2 min treated timber framing
- (TP) TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- (WB) WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- (MR) METAL ROOFING : Selected Metal Roofing
- (RU) ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- (SL) SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)
- (HS) HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- (AF) APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H ≥ 10°) All others 200mm Refer Table 7 E2/AS1
- (CB) CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity



E2/AS1 Section 6.0 PARAPETS
Parapets require a drained cavity for claddings

E2/AS1 Section 7.4 ENCLOSED BALUSTRADE
Enclosed balustrades require a drained cavity for claddings

MicoPro® Wood Treatment Technology

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DATE : 27/11/2018

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DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE

TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME Balustrade Capping or Parapet Detail

CODEMARK AQ-020216-CMNZ

DRAWING SCALE	ISSUE DATE
1:2 @ A4	20/11/2018

DRAWING No	REVISION
KLC DF BB65	0