

THERMAL BRIDGING DETAILS - V.1.0 31st March 2017

Foreword:

The following set of design details has been prepared for use by installers of Solid Wall Insulation (SWI) systems. The details are provided to highlight common areas of construction where thermal bridging may occur, potentially leading to a reduction in thermal performance and an increased risk of surface condensation, and to encourage best practice.

The details provided are not exhaustive, other methods of detailing may be suitable depending upon individual circumstances.

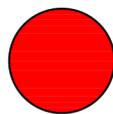
In all situations, this guide assumes that the designer of the SWI/EWI system has properly addressed the risk of thermal bridging for each specific site location where the design detail is to be used.

All details should be reviewed in conjunction with the requirement for adequate ventilation and correct use of the building on completion of the installation of the SWI/EWI system. Mastic sealants shall always be supported by a secondary seal to comply with the new PAS 2030 2017 requirements

All details are a generic representation of the design intent and reference should be made to the specific system designer of the intended EWI system for advice on an appropriate compliant detail.

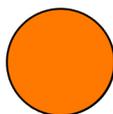
The details are to provide guidance only, and are intended to assist the installer to differentiate between details that may lead to thermal bridging and/or condensation risk from those that will achieve better thermal performance and no/limited condensation risk. The details do not replace government accredited construction details and their adoption alone may not demonstrate compliance with the Building Regulations.

The energy performance of dwellings to satisfy Building Regulations must be calculated using the Standard Assessment Procedure (SAP) or the Simplified Building Energy Model (SBEM) for other buildings. U-Values used as part of the SAP or SBEM calculations shall be carried out according to BR443 "Conventions for U-Value Calculations" and should be undertaken prior to commencement of installation works.

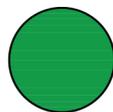


The details that have a red traffic light attributed to them do not include insulation and thus can lead to a thermal bridge, this does not however, automatically mean that condensation or damp will occur at this detail. Detail should be considered in the context of the property and current ventilation by the EEM designer.

The installer must demonstrate that every possibility to improve the thermal performance of the detail has been considered/tried. Failure in the regard may result in Non-compliance with PAS 2030.



The details that have an amber traffic light attributed to them are partially insulated along the thermal path through the wall construction. It does not mean that condensation/damp will occur at this detail, nor does it rule out the risk of condensation/damp completely. Detail should be considered in the context of the property and current ventilation by the EEM designer.



The details that have a green traffic light attributed to them fully insulate the thermal path through the wall construction and provide a high level of confidence that condensation will not occur at this detail.

NOTE: FOR CLARITY AND TO AVOID DUPLICATION, DETAILS FOR FLUE PENETRATIONS AND OTHER FUEL BURNING APPLIANCES HAVE BEEN OMITTED. CONTRACTORS SHOULD REFER TO THE FOLLOWING DOCUMENT: *Specification for the installation of external wall insulation ensuring the safety and operation of fuel burning appliances.*

THERMAL BRIDGING DETAILS

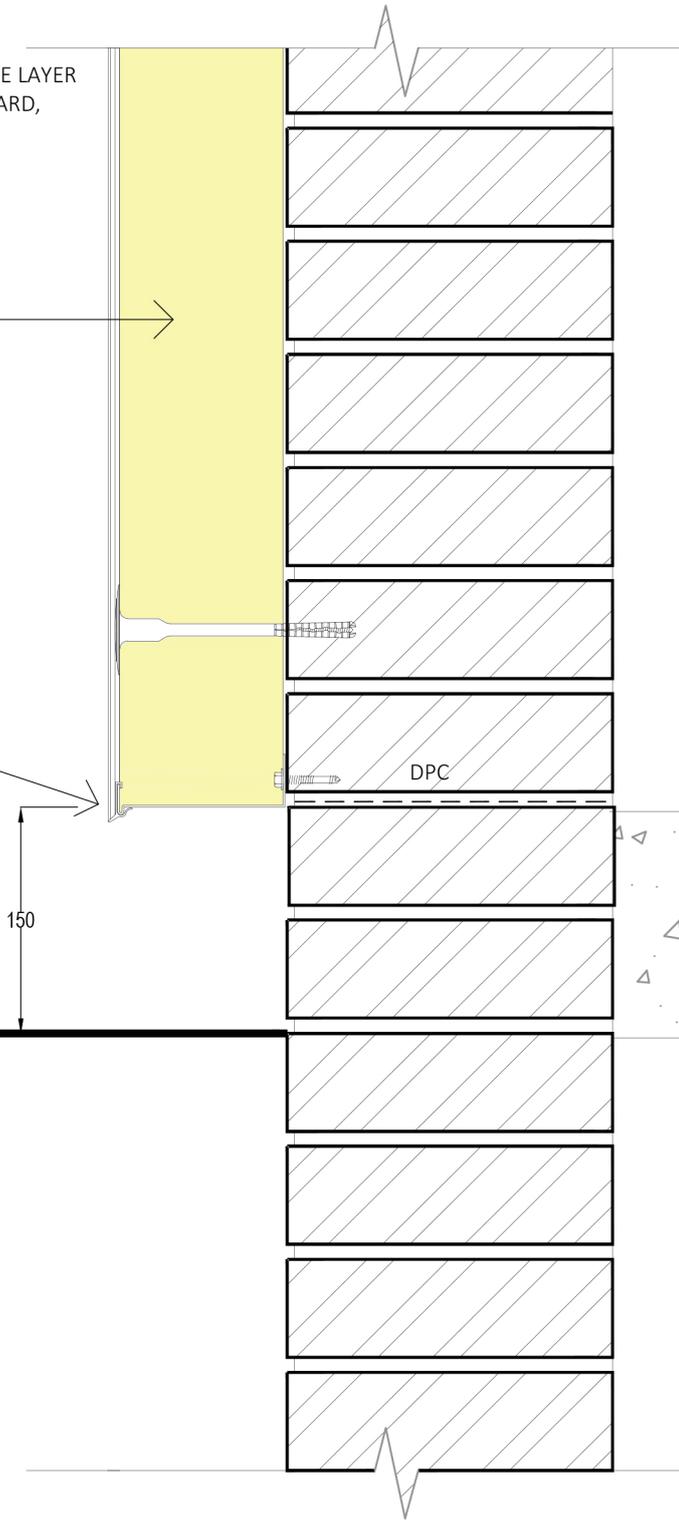
NOTE:

ALL DETAILS INDICATE FIXINGS THAT ARE THERMALLY BROKEN. DETAILS HAVE OMITTED THE ADHESIVE LAYER TO THE REAR OF THE INSULATION BOARD, AGAIN FOR CLARITY

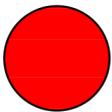
SPECIFIED INSULATION

STARTER TRACK FIXED AT EXISTING DPC LEVEL OR 150mm ABOVE GROUND LEVEL

DPC LEVEL CAN VARY AT POSITION OF STARTER TRACK AGREED WITH CLIENT



SOLID GROUND FLOOR INDICATED. IF TIMBER FLOOR PRESENT AIR VENTILATION SHOULD BE RETAINED VIA EXISTING AIR BRICKS



Title:	Un-insulated Plinth Detail
Dwg. No.	TBD-001
Rev.	B

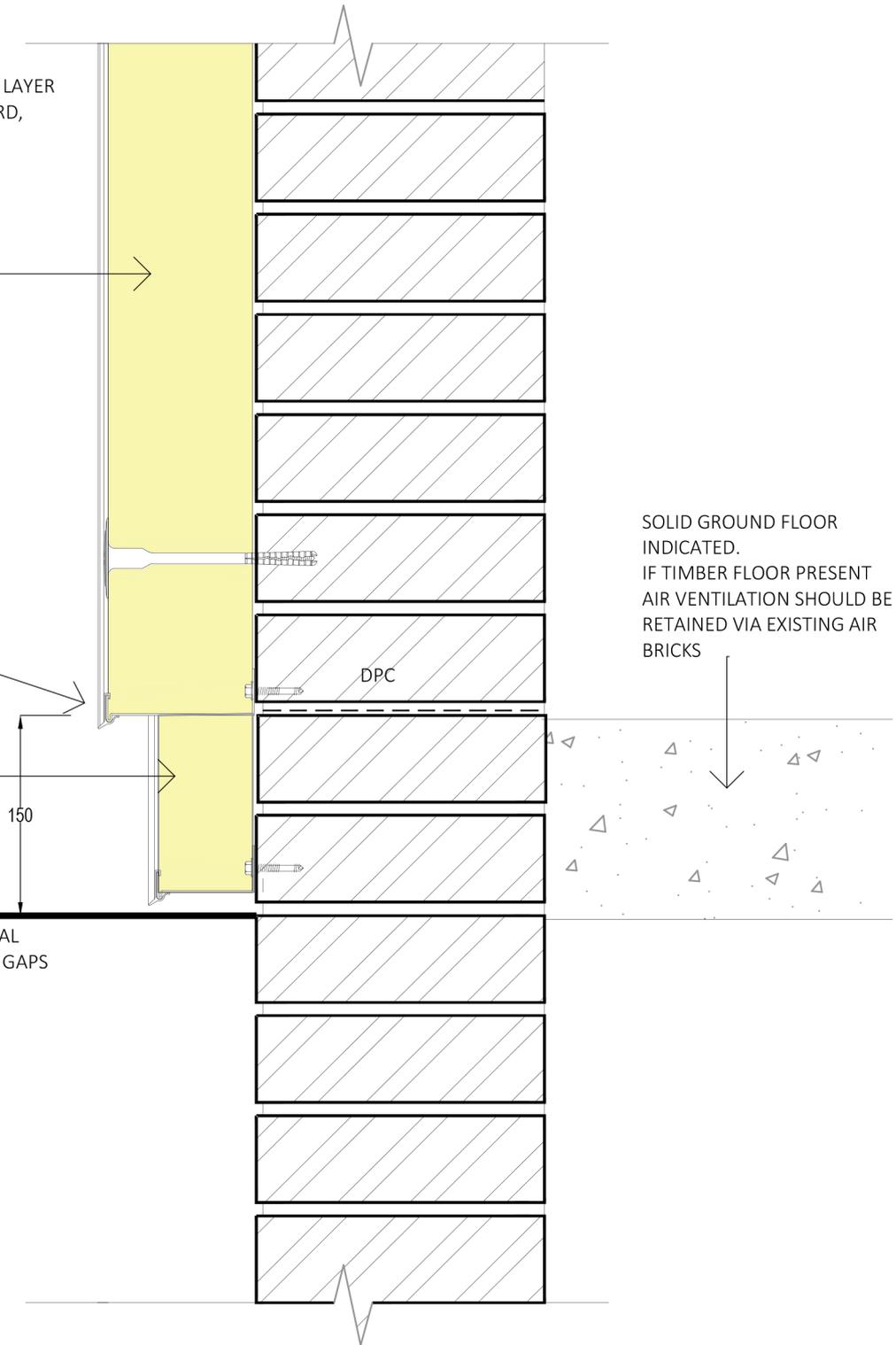
THERMAL BRIDGING DETAILS

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 AGAIN FOR CLARITY

SPECIFIED INSULATION

STARTER TRACK FIXED
 AT EXISTING DPC LEVEL
 OR 150mm ABOVE
 GROUND LEVEL

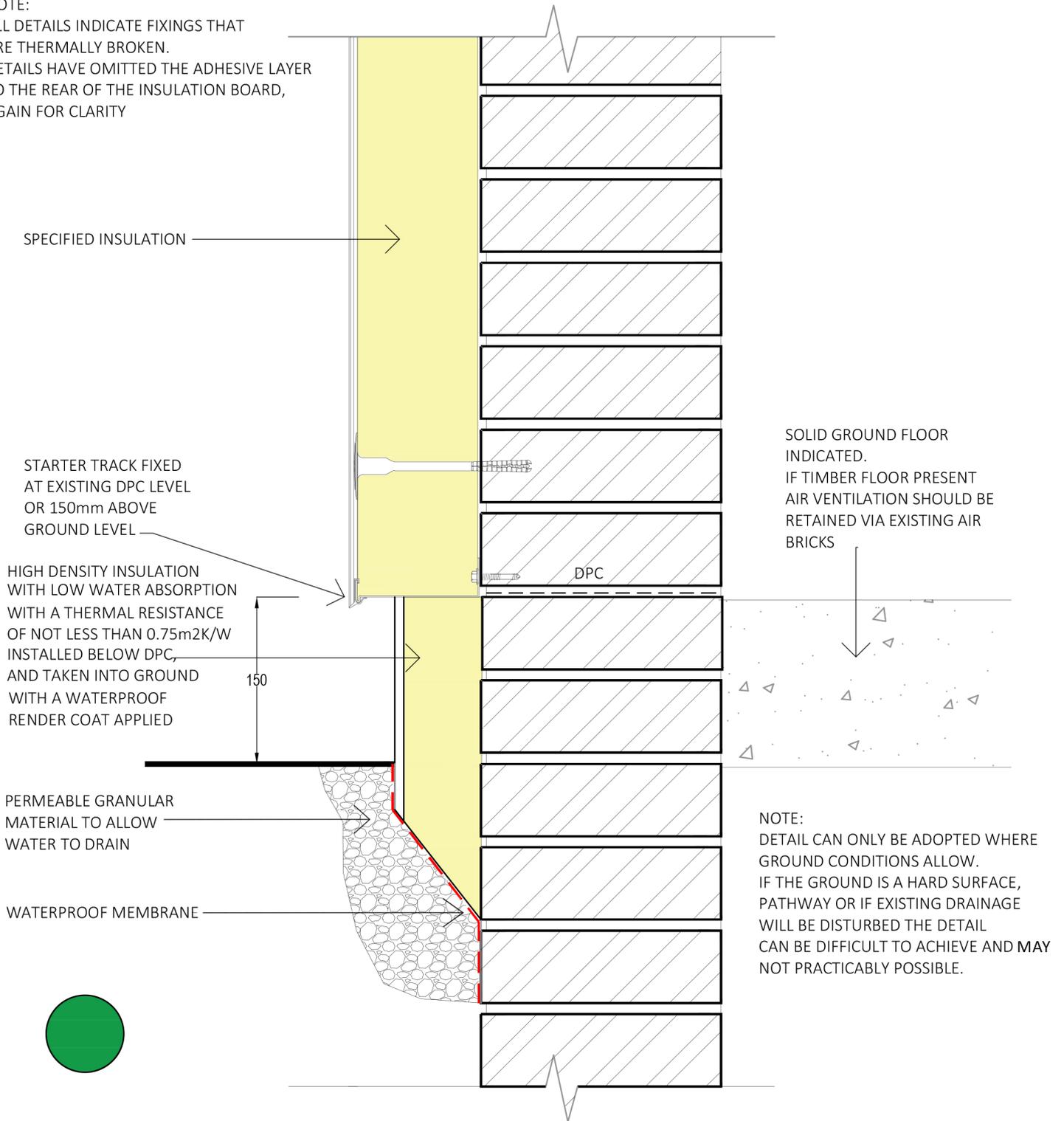
INSULATION INSTALLED
 BELOW DPC SHOULD HAVE
 A THERMAL RESISTANCE
 NOT LESS THAN $0.75\text{m}^2\text{K/W}$
 AND SHOULD BE APPLIED WITH
 ADHESIVE TO THE REAR,
 WITH SUPPLEMENTARY MECHANICAL
 FIXINGS TO ENSURE THERE ARE NO GAPS
 BEHIND THE INSULATION.



Title:	Partial-insulated Plinth Detail
Dwg. No.	TBD-002
Rev.	B

THERMAL BRIDGING DETAILS

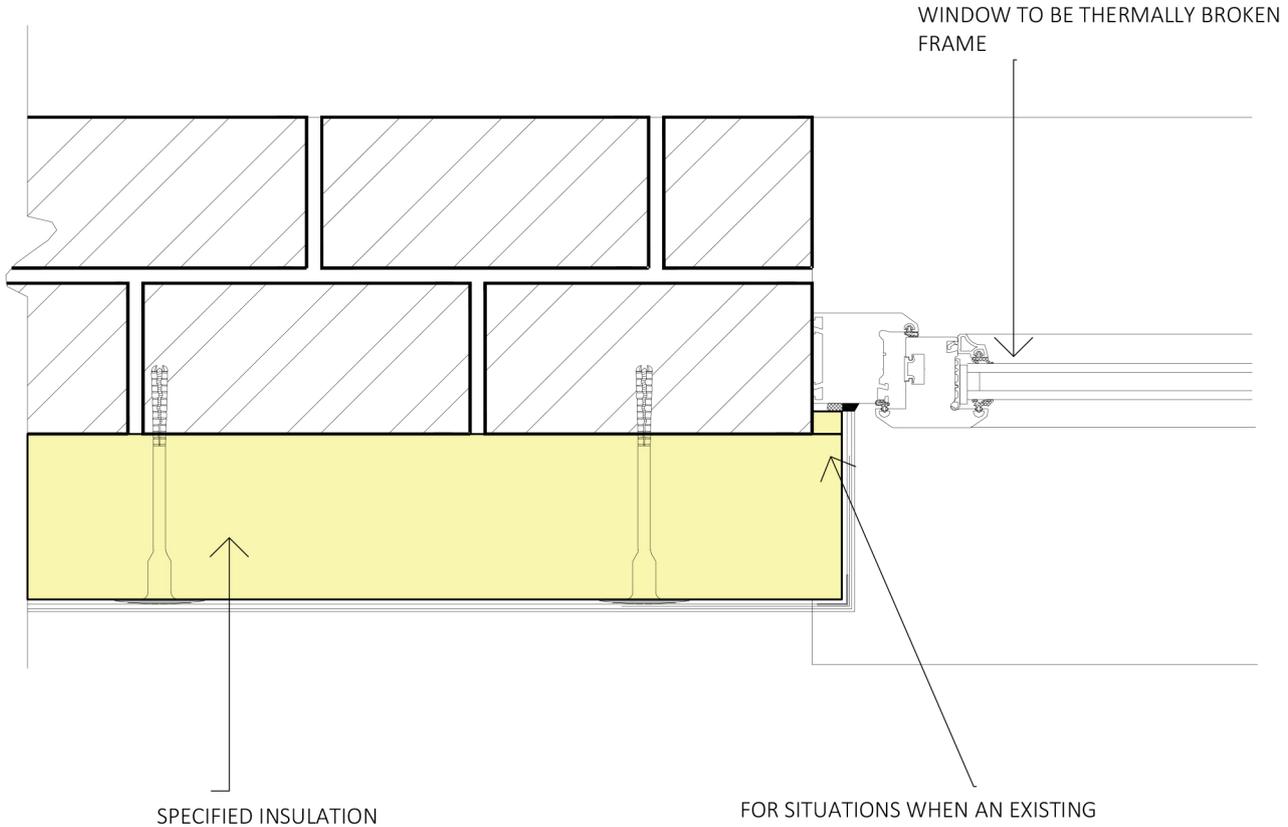
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DETAILS HAVE OMITTED THE ADHESIVE LAYER
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AGAIN FOR CLARITY



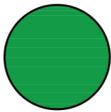
Title:	Insulated Plinth Detail
Dwg. No.	TBD-003
Rev.	B

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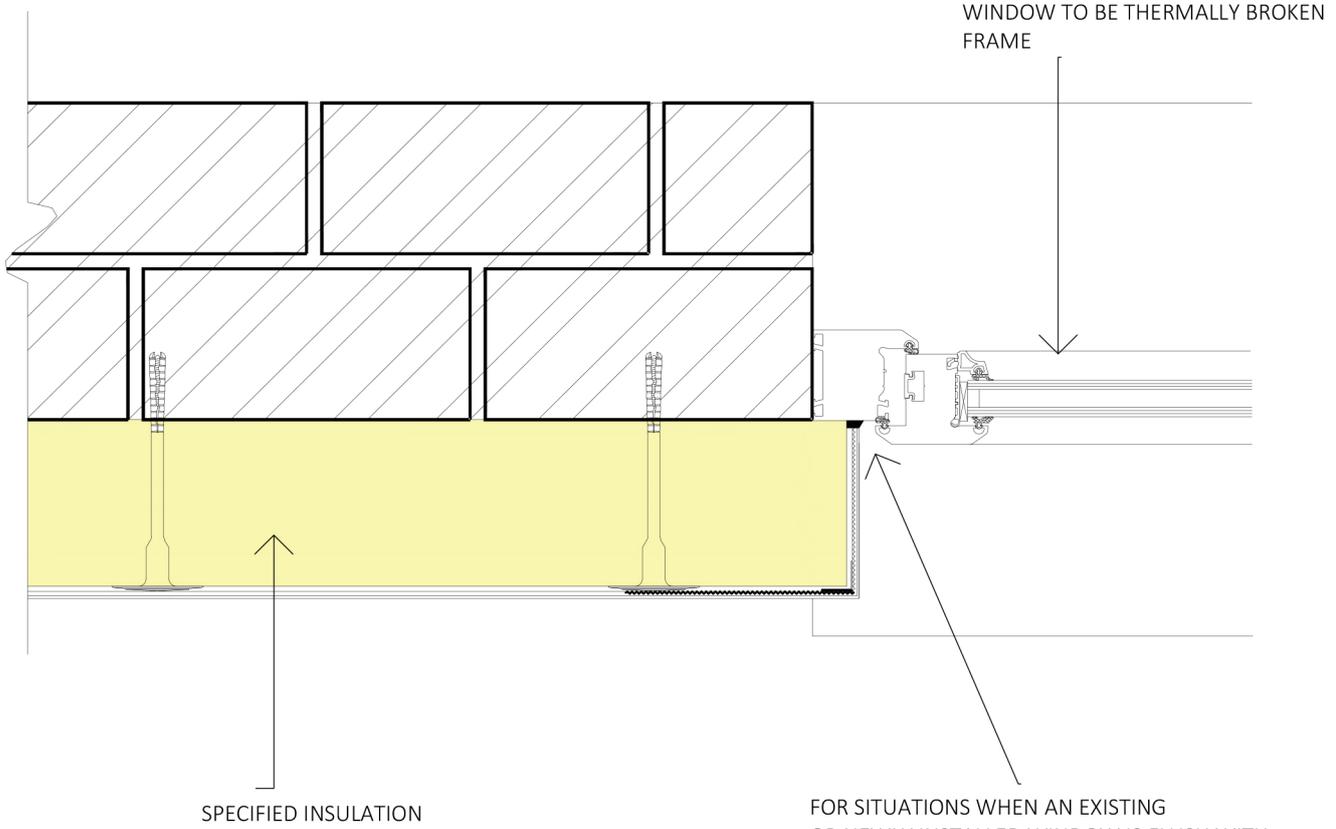
FOR SITUATIONS WHEN AN EXISTING
 OR NEWLY INSTALLED WINDOW IS SET BACK WITHIN
 THE REVEAL AND THE FRAME MARGIN MEASURES
 A MINIMUM OF 30-40mm TO ALLOW FOR
 INSTALLATION OF INSULATION.
 THE INSULATION SHOULD HAVE A THERMAL RESISTANCE OF
 NOT LESS THAN 0.6m²K/W
 SYSTEM SHOULD BE SEALED AGAINST THE FRAME BY
 MEANS OF A HYDROPHOBIC TAPE AND MASTIC OR
 PROPRIETARY STOP BEAD WITH INTEGRAL HYDROPHOBIC TAPE
 COMMON PRACTICE IS TO OVER SAIL THE MAIN
 INSULATION BOARD PAST THE REVEAL BY 20mm
 AND ADHESIVELY FIX THE REVEAL INSULATION WITHIN
 THE REMAINING RECESS



Title:	Insulation to recessed reveal
Dwg. No.	TBD-004
Rev.	B

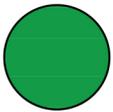
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 AGAIN FOR CLARITY



NOTE:
 NEW WINDOWS ARE GENERALLY
 BROUGHT FORWARD TO SIT FLUSH
 WITH THE OUTER WALL AND THE INTERNAL
 REVEALS MADE GOOD

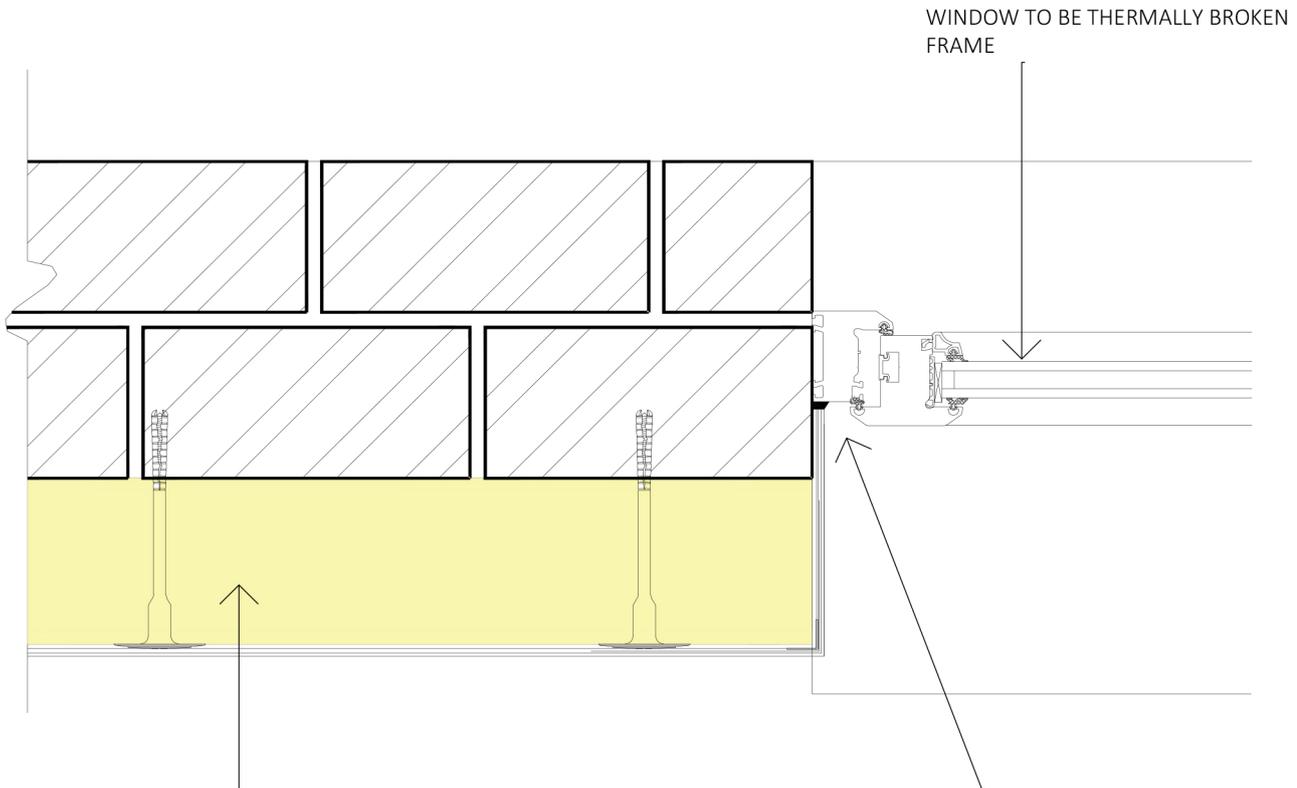
FOR SITUATIONS WHEN AN EXISTING
 OR NEWLY INSTALLED WINDOW IS FLUSH WITH
 THE REVEAL.
 ENSURE SPECIFIED INSULATION IS TAKEN OVER THE
 WINDOW FRAME BY 15-20mm
 SYSTEM SHOULD BE SEALED AGAINST THE FRAME BY
 MEANS OF A HYDROPHOBIC TAPE AND MASTIC OR
 PROPRIETARY STOP BEAD WITH INTEGRAL HYDROPHOBIC TAPE



Title:	Insulation over flush reveal
Dwg. No.	TBD-005
Rev.	B

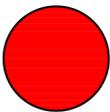
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SPECIFIED INSULATION

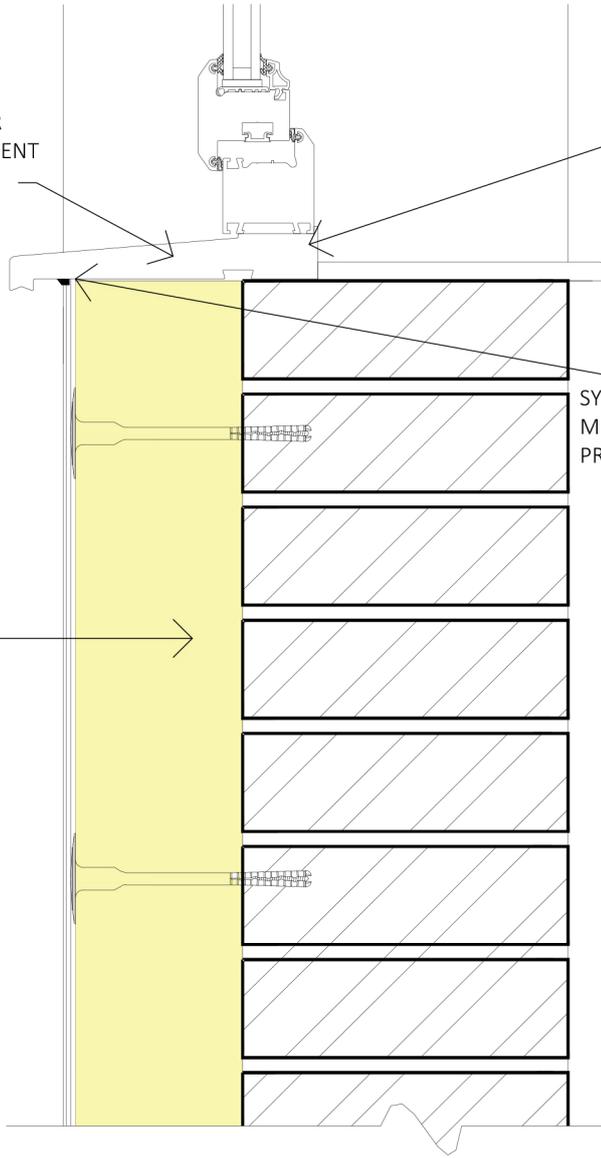
FOR SITUATIONS WHEN THE WINDOW FRAME IS SET BACK INTO THE REVEAL AND THE EXISTING FRAME HAS INSUFFICIENT MARGIN TO ACCOMMODATE ADDITIONAL INSULATION. SYSTEM SHOULD BE SEALED AGAINST THE FRAME BY MEANS OF A HYDROPHOBIC TAPE AND MASTIC OR PROPRIETARY STOP BEAD WITH INTEGRAL HYDROPHOBIC TAPE



Title:	Un-Insulated Reveal
Dwg. No.	TBD-006
Rev.	B

THERMAL BRIDGING DETAILS

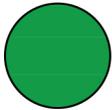
APPLICATIONS WHERE NEW WINDOWS ARE INSTALLED OR EXTERNAL SILLS HAVE SUFFICIENT OVERHANG.



WINDOW TO BE THERMALLY BROKEN FRAME

SYSTEM SHOULD BE SEALED AGAINST THE FRAME BY MEANS OF A HYDROPHOBIC TAPE AND MASTIC OR PROPRIETARY STOP BEAD WITH INTEGRAL HYDROPHOBIC TAPE

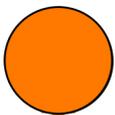
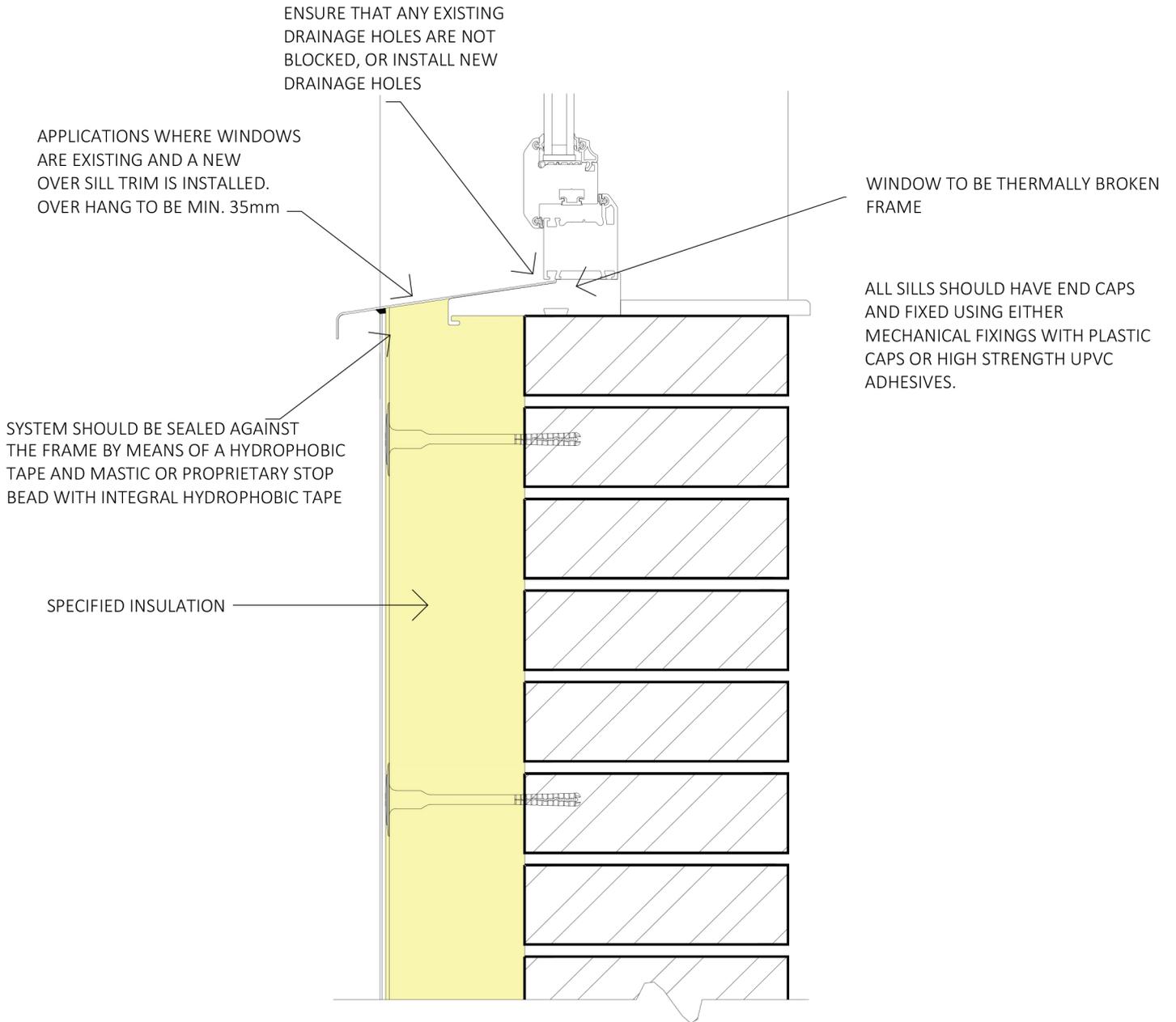
SPECIFIED INSULATION



NOTE:
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DETAILS HAVE OMITTED THE ADHESIVE LAYER TO THE REAR OF THE INSULATION BOARD, AGAIN FOR CLARITY

Title:	New window with extended sill
Dwg. No.	TBD-007
Rev.	B

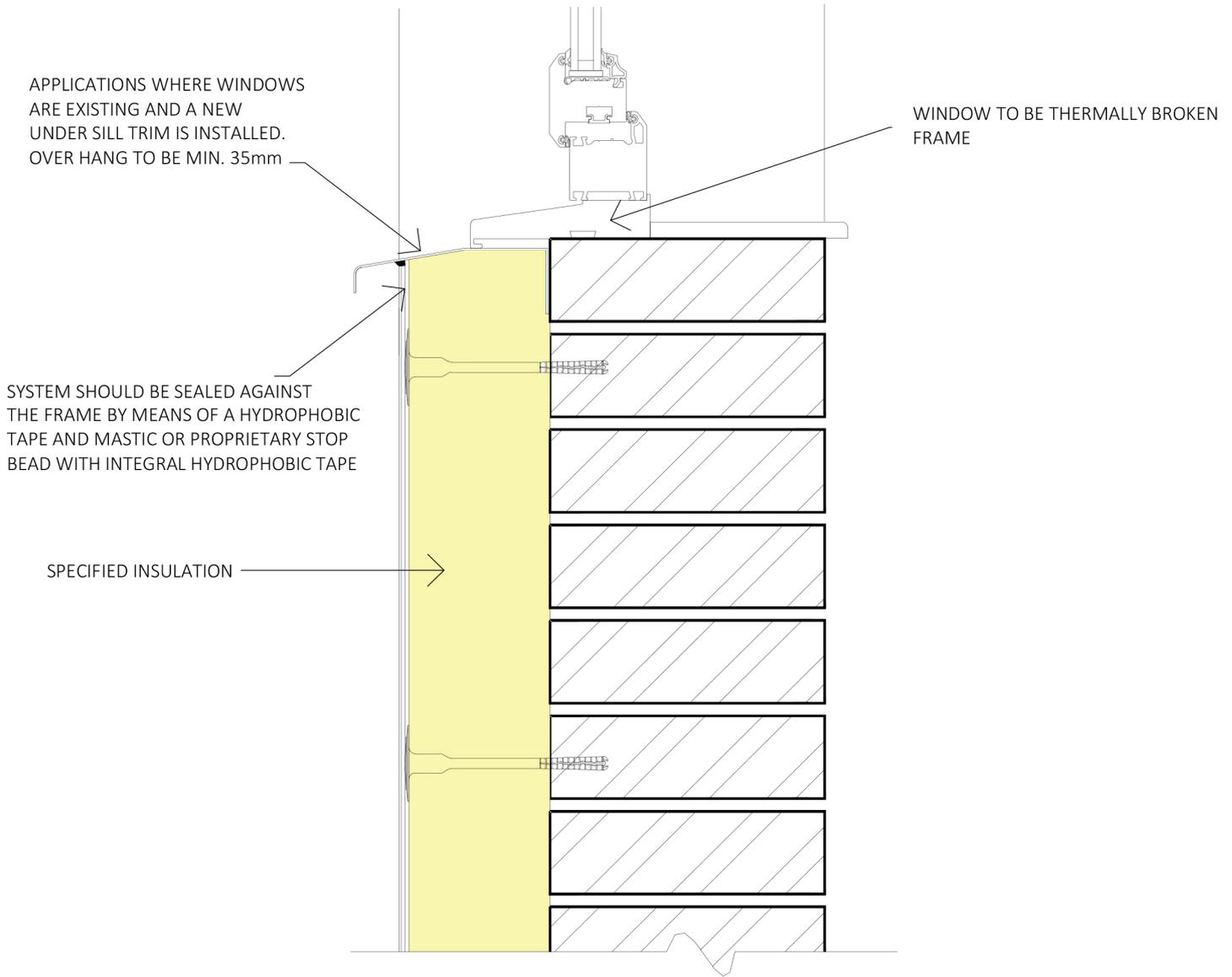
THERMAL BRIDGING DETAILS



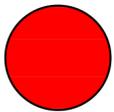
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Title:	Existing window with over sill
Dwg. No.	TBD-008
Rev.	B

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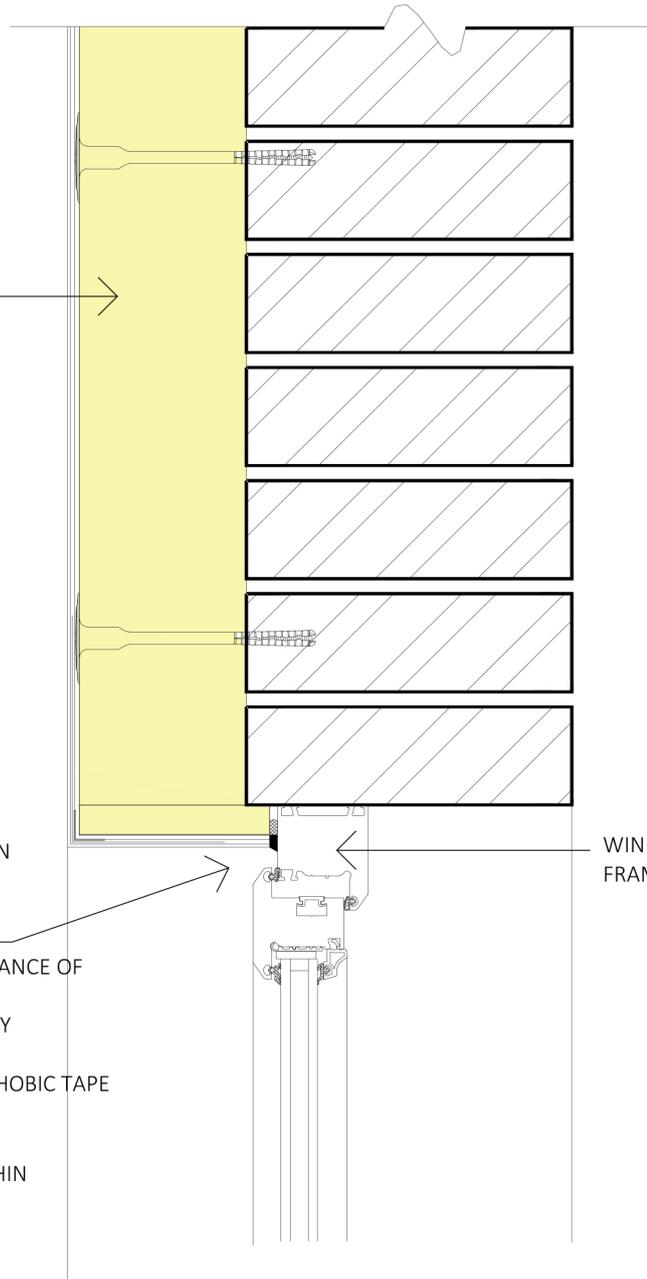


Title:	Existing window with over sill
Dwg. No.	TBD-009
Rev.	B

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SPECIFIED INSULATION



WINDOW TO BE THERMALLY BROKEN
 FRAME

FOR SITUATIONS WHEN AN EXISTING
 OR NEWLY INSTALLED WINDOW IS SET BACK WITHIN
 THE REVEAL AND THE FRAME MARGIN MEASURES
 A MINIMUM OF 30-40mm TO ALLOW FOR
 INSTALLATION OF INSULATION.
 THE INSULATION SHOULD HAVE A THERMAL RESISTANCE OF
 NOT LESS THAN 0.6m²K/W
 SYSTEM SHOULD BE SEALED AGAINST THE FRAME BY
 MEANS OF A HYDROPHOBIC TAPE AND MASTIC OR
 PROPRIETARY STOP BEAD WITH INTEGRAL HYDROPHOBIC TAPE
 COMMON PRACTICE IS TO OVER SAIL THE MAIN
 INSULATION BOARD PAST THE REVEAL BY 20mm
 AND ADHESIVELY FIX THE REVEAL INSULATION WITHIN
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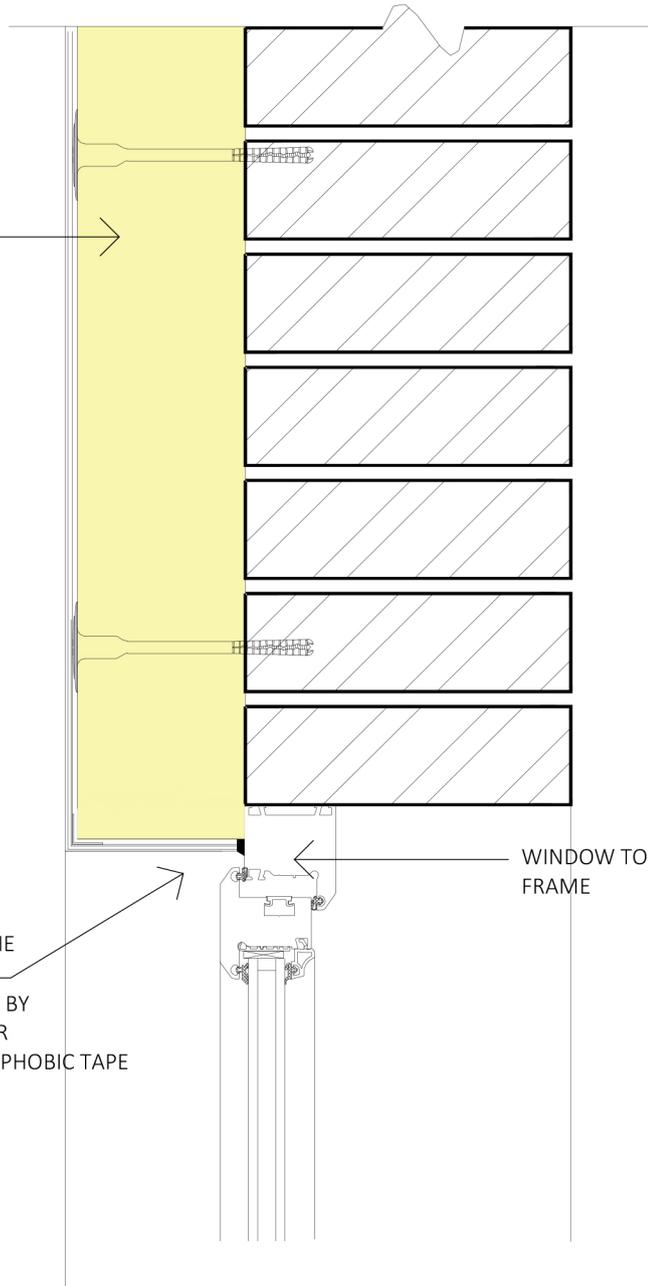


Title:	Insulation to recessed head
Dwg. No.	TBD-010
Rev.	B

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SPECIFIED INSULATION



FOR SITUATIONS WHEN AN EXISTING
 OR NEWLY INSTALLED WINDOW IS FLUSH WITH
 THE REVEAL.
 ENSURE SPECIFIED INSULATION IS TAKEN OVER THE
 WINDOW FRAME BY 15-20mm
 SYSTEM SHOULD BE SEALED AGAINST THE FRAME BY
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 PROPRIETARY STOP BEAD WITH INTEGRAL HYDROPHOBIC TAPE

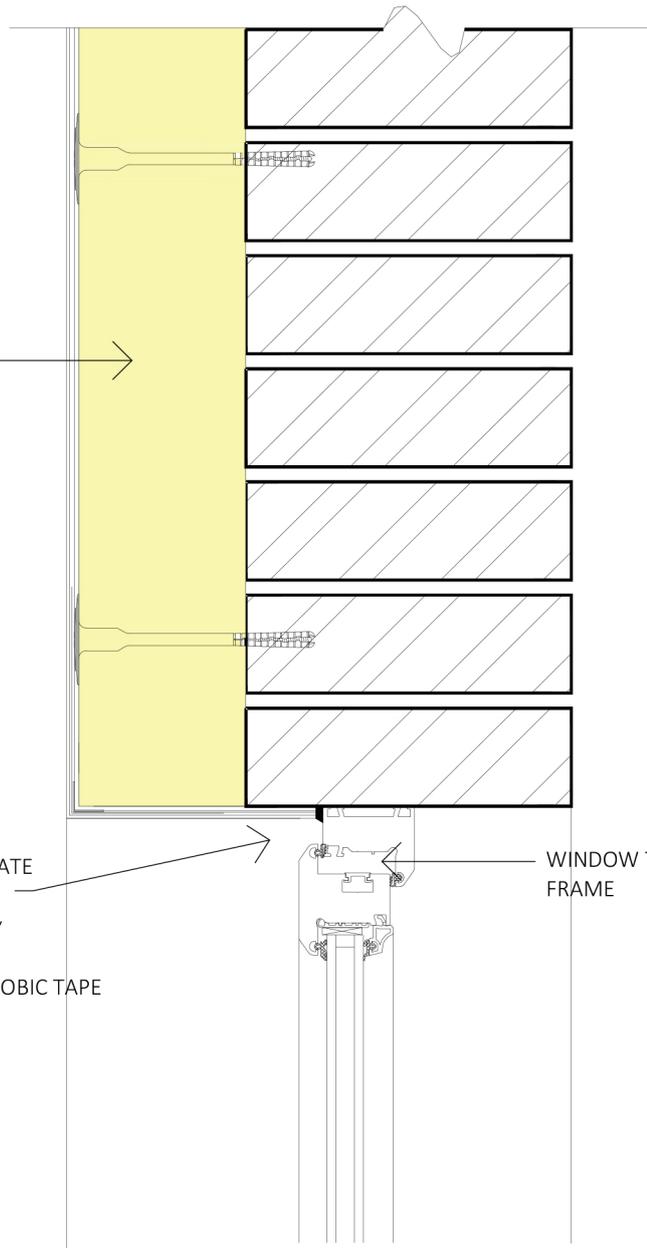
WINDOW TO BE THERMALLY BROKEN
 FRAME

Title:	Insulation over flush head
Dwg. No.	TBD-011
Rev.	B

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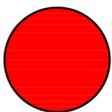
SPECIFIED INSULATION



FOR SITUATIONS WHEN THE WINDOW FRAME
 IS SET BACK INTO THE REVEAL AND THE EXISTING
 FRAME HAS INSUFFICIENT MARGIN TO ACCOMMODATE
 ADDITIONAL INSULATION.

SYSTEM SHOULD BE SEALED AGAINST THE FRAME BY
 MEANS OF A HYDROPHOBIC TAPE AND MASTIC OR
 PROPRIETARY STOP BEAD WITH INTEGRAL HYDROPHOBIC TAPE

WINDOW TO BE THERMALLY BROKEN
 FRAME

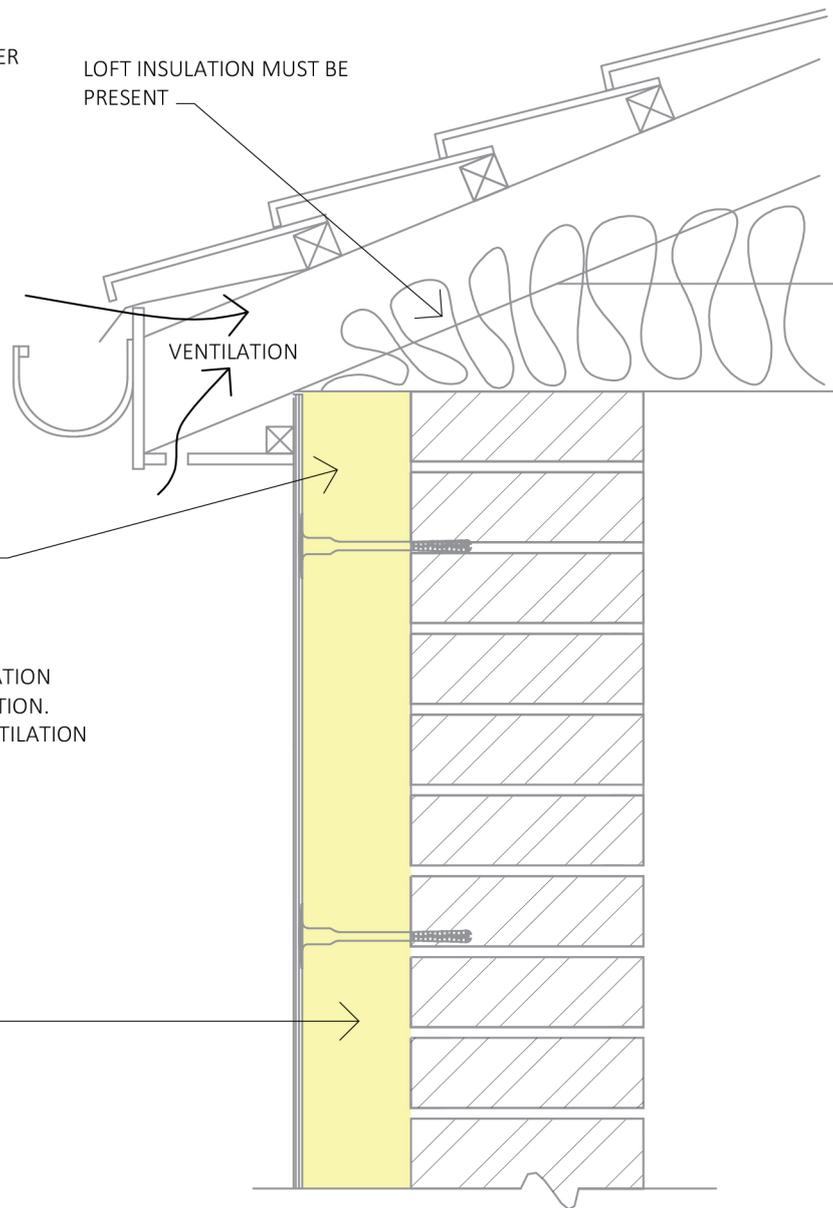


Title:	Un-Insulated Head
Dwg. No.	TBD-012
Rev.	B

THERMAL BRIDGING DETAILS

NOTE:

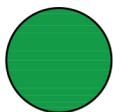
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EXISTING SOFFIT BOARD REMOVED AND SYSTEM TAKEN UP ENTIRE WALL TO ENSURE CONTINUITY WITH LOFT INSULATION.

NEW SOFFIT TO HAVE SOFFIT VENTILATION OR CHECK FOR OVER FASCIA VENTILATION. IT IS CRITICAL THAT CROSS FLOW VENTILATION IS MAINTAINED

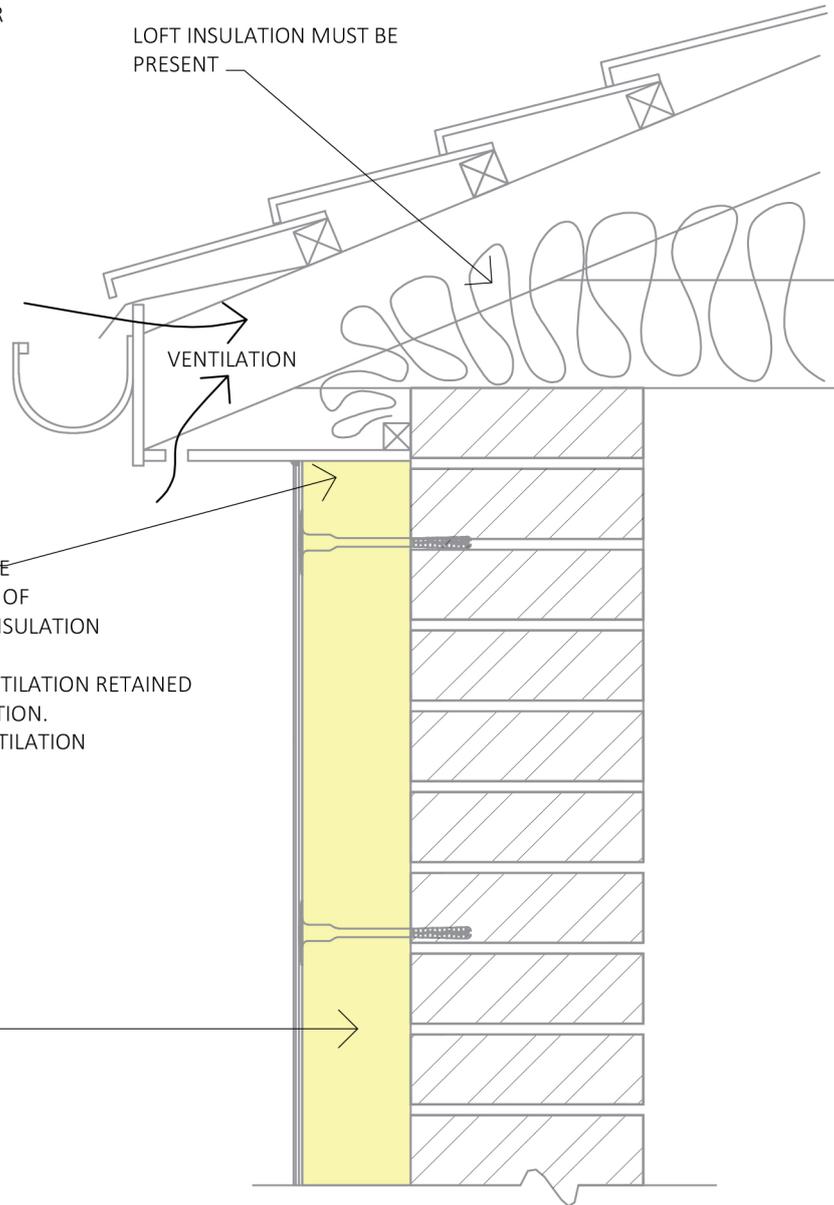
SPECIFIED INSULATION



Title:	Extended/Overhanging Eaves
Dwg. No.	TBD-013
Rev.	B

THERMAL BRIDGING DETAILS

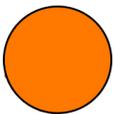
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EXISTING SOFFIT BOARD RETAINED
 AND SYSTEM TAKEN UP TO UNDERSIDE
 LOFT INSULATION SHOULD MEET TOP OF
 SOFFIT BOARD FOR CONTINUITY OF INSULATION

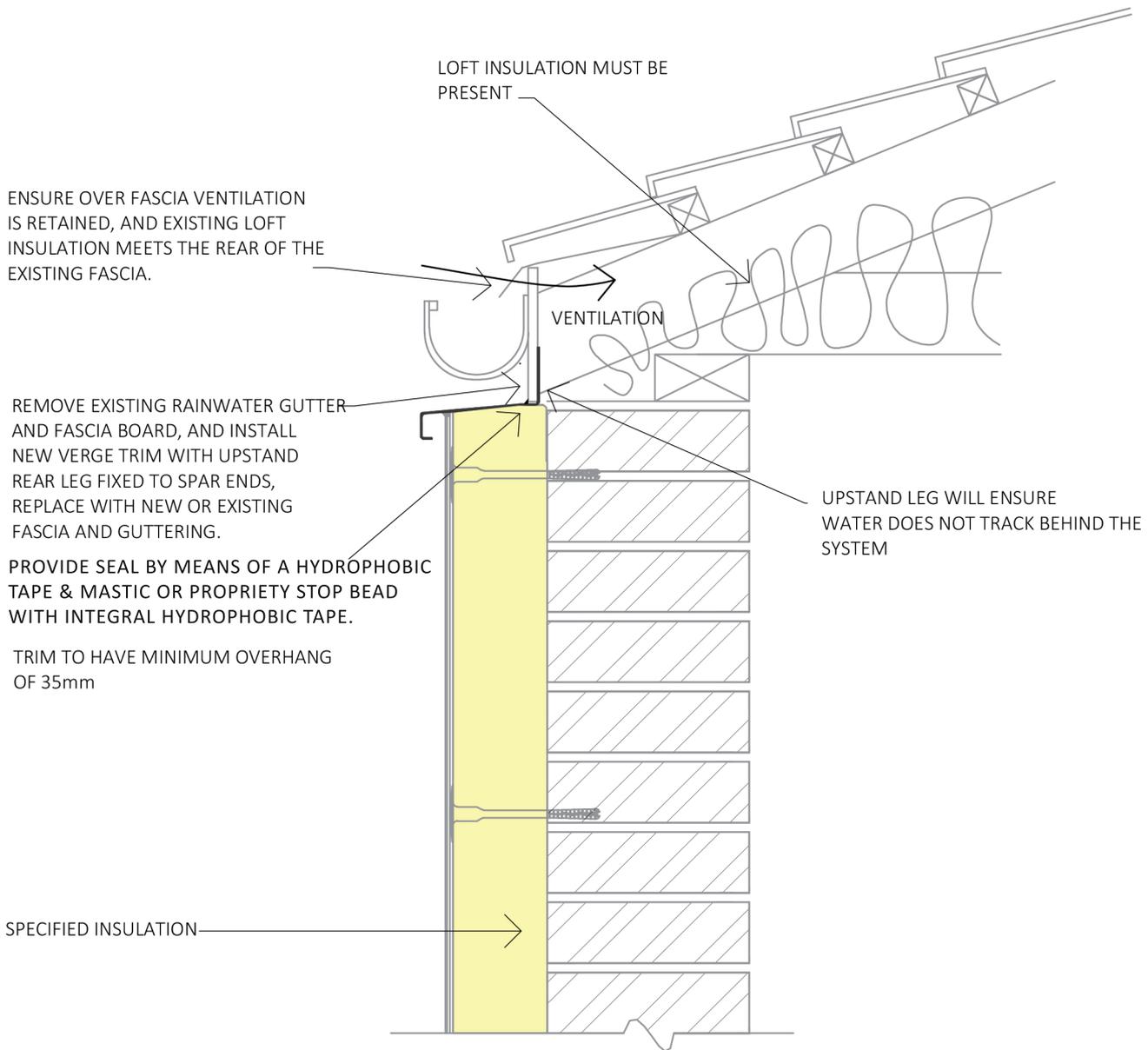
EXISTING SOFFIT TO HAVE SOFFIT VENTILATION RETAINED
 OR CHECK FOR OVER FASCIA VENTILATION.
 IT IS CRITICAL THAT CROSS FLOW VENTILATION
 IS MAINTAINED

SPECIFIED INSULATION

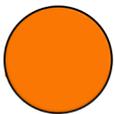


Title:	Extended/Overhanging Eaves
Dwg. No.	TBD-014
Rev.	B

THERMAL BRIDGING DETAILS



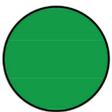
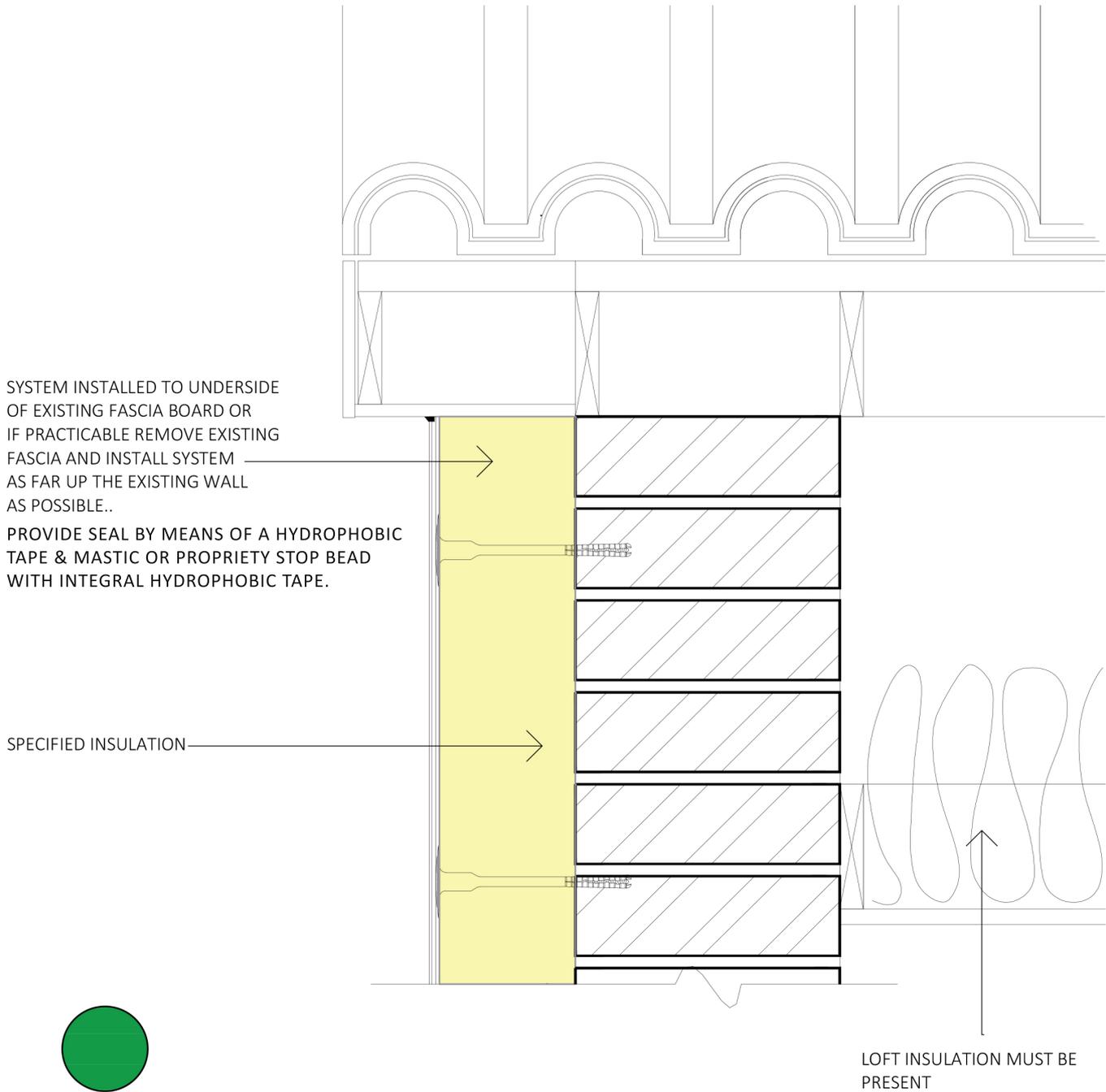
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Title:	Flush/Non-Extended Eaves
Dwg. No.	TBD-015
Rev.	B

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Title:	Extended/Overhanging Verge
Dwg. No.	TBD-016
Rev.	B

THERMAL BRIDGING DETAILS

ENSURE CAPPING PIECE IS APPLIED TO JUNCTION AT GABLE APEX WHERE VERGE TRIMS MEET.

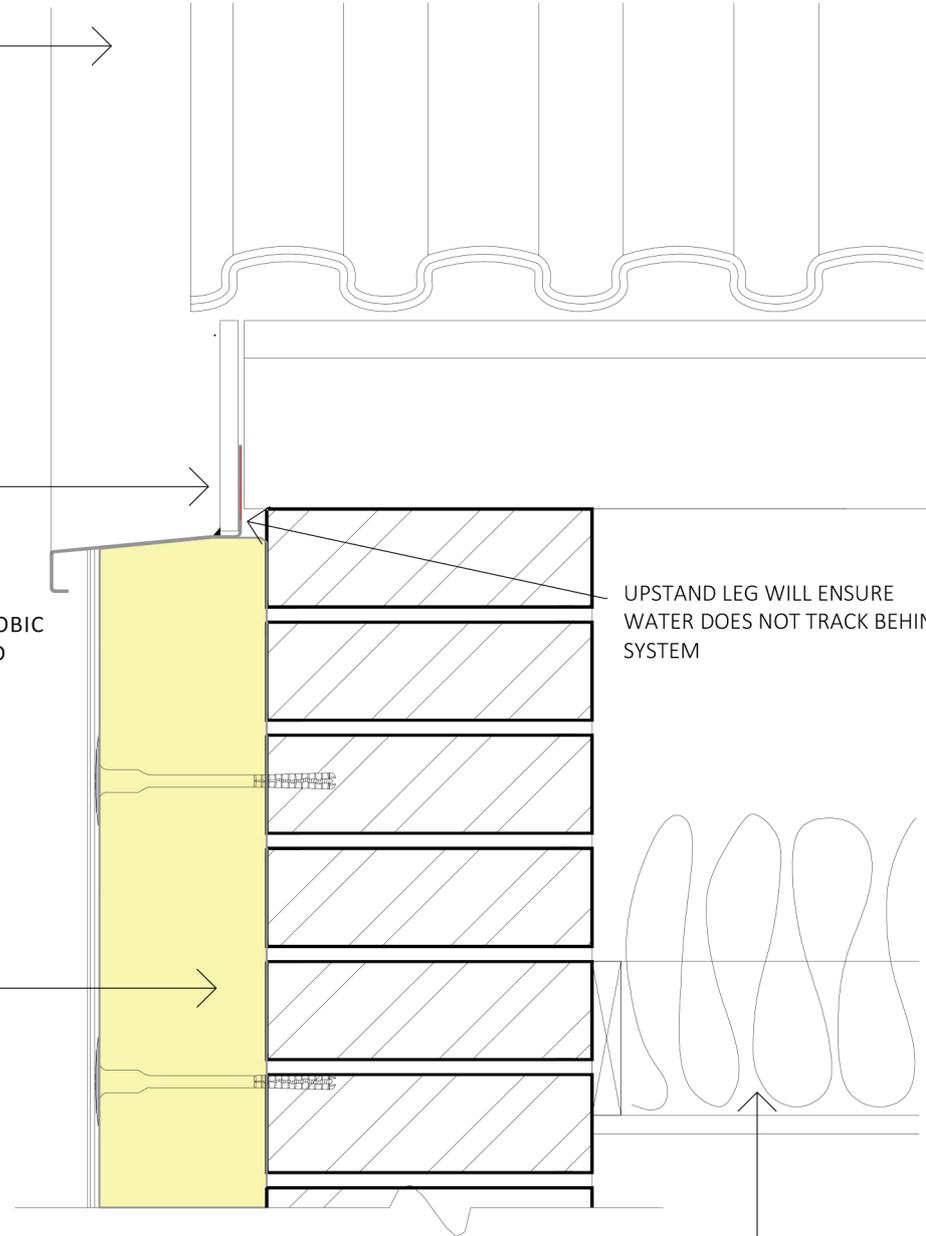
REMOVE EXISTING BARGE BOARD AT VERGE AND INSTALL NEW VERGE TRIM WITH UP STAND BACK LEG FIXED TO GABLE LADDER OR TRUSS. REPLACE BARGE BOARD WITH EXISTING OR NEW REPLACEMENT.

PROVIDE SEAL BY MEANS OF A HYDROPHOBIC TAPE & MASTIC OR PROPRIETY STOP BEAD WITH INTEGRAL HYDROPHOBIC TAPE.

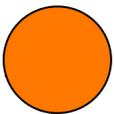
SPECIFIED INSULATION

UPSTAND LEG WILL ENSURE WATER DOES NOT TRACK BEHIND THE SYSTEM

LOFT INSULATION MUST BE PRESENT



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Title:	Flush/Non-extended Verge
Dwg. No.	TBD-017
Rev.	B

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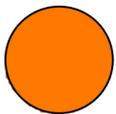
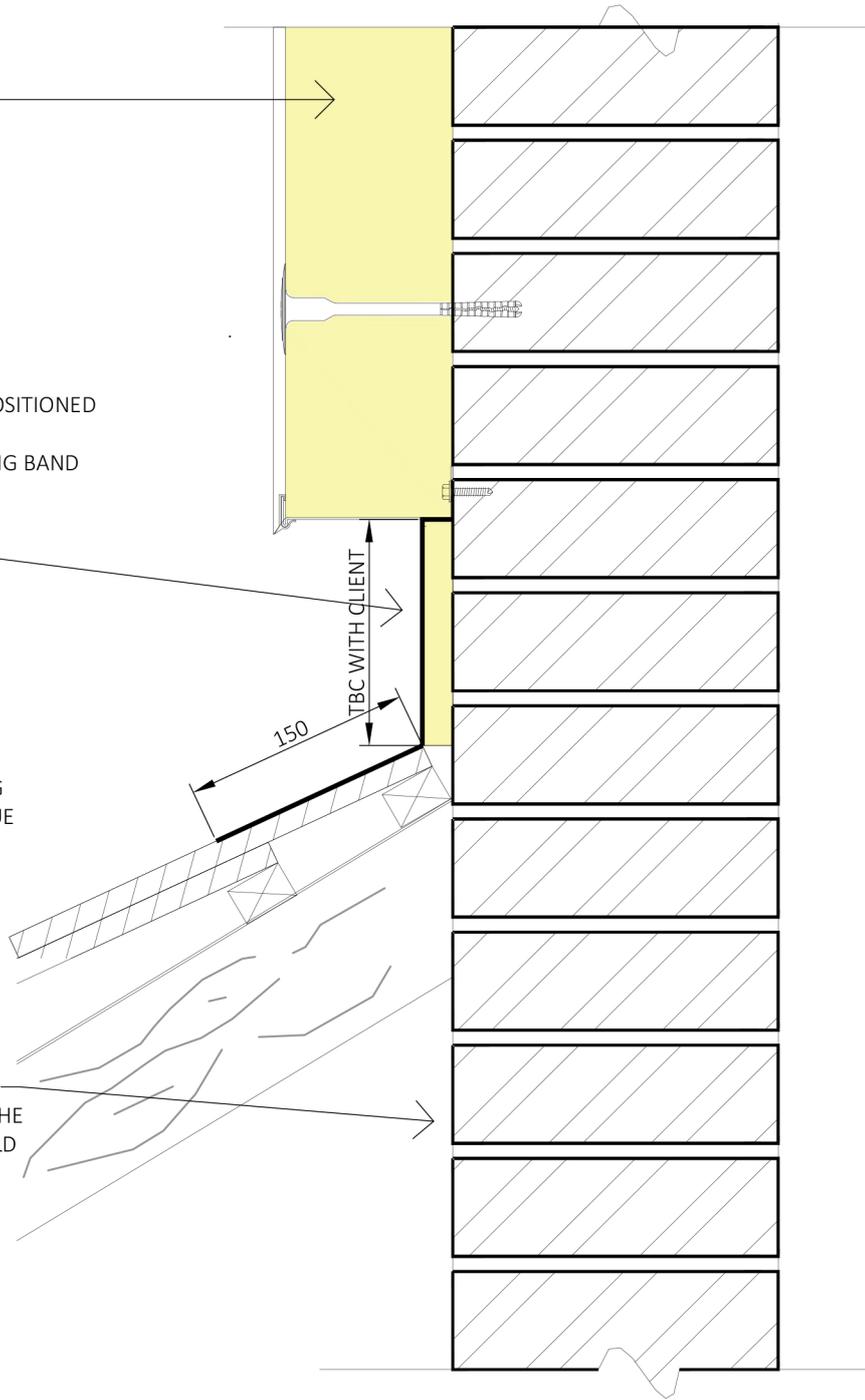
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SPECIFIED INSULATION

INSTALL SYSTEM WITH STARTER TRACK POSITIONED
 ABOVE ROOF. PROVIDE EITHER:
 HIGH DENSITY INSULATION WITH FLASHING BAND
 OVER LAPPED ONTO ROOF,
 OR;
 PROPRIETARY INSULATED FASHING
 (THERMAFLASH OR SIMILAR APPROVED)
 THICKNESS OF INSULATION CAN VARY
 TO ENSURE THERMAL INTEGRITY IS
 MAINTAINED

DETAIL CAN BE IMPROVED BY REMOVING
 THE TOP 2 ROWS OF TILES AND CONTINUE
 THE INSULATION WITHIN THE ROOF TO
 MEET THE EXISTING INSULATION -
 WARM ROOF'S ONLY

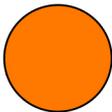
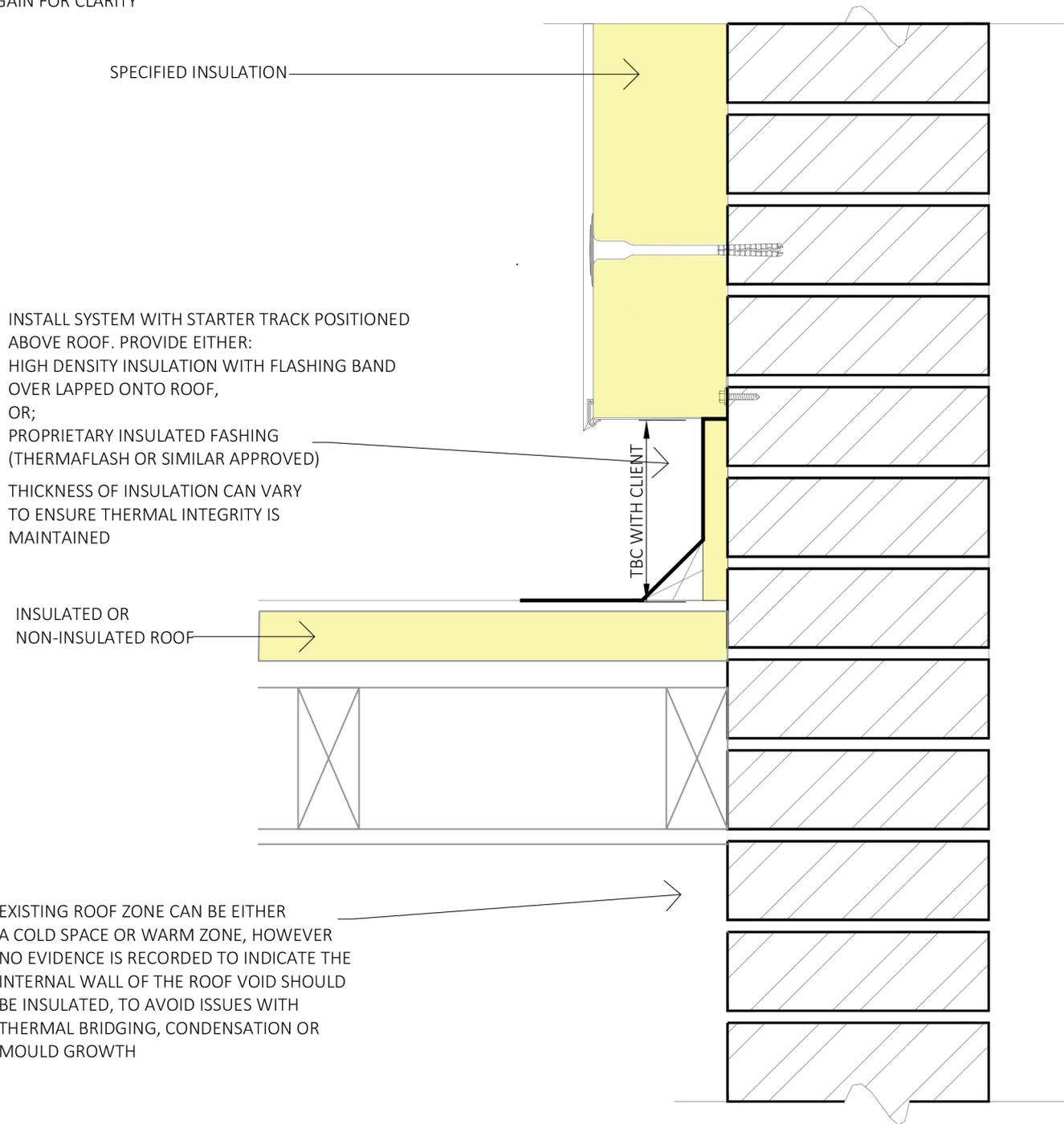
EXISTING ROOF ZONE CAN BE EITHER
 A COLD SPACE OR WARM ZONE, HOWEVER
 NO EVIDENCE IS RECORDED TO INDICATE THE
 INTERNAL WALL OF THE ROOF VOID SHOULD
 BE INSULATED, TO AVOID ISSUES WITH
 THERMAL BRIDGING, CONDENSATION OR
 MOULD GROWTH



Title:	Pitched Roof Abutment
Dwg. No.	TBD-018
Rev.	B

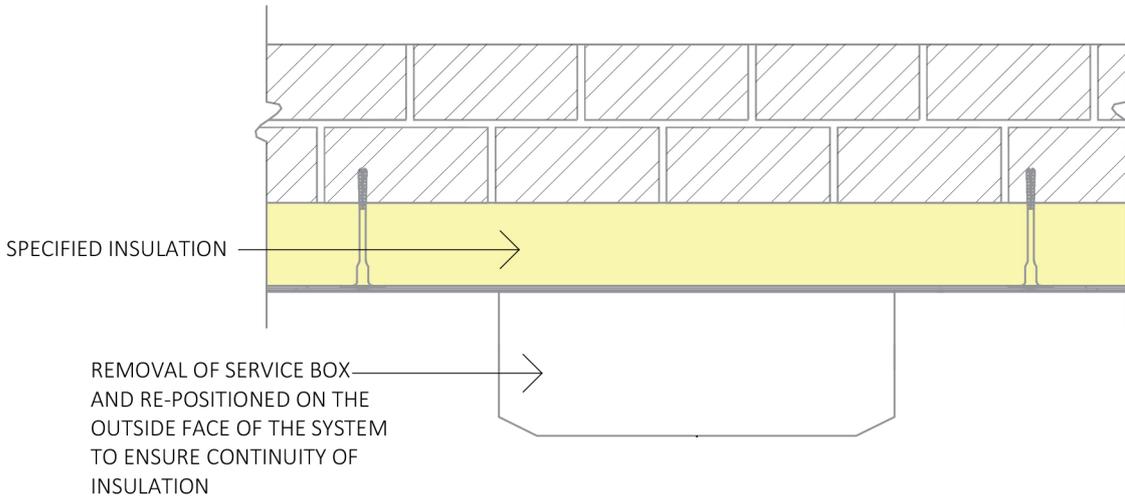
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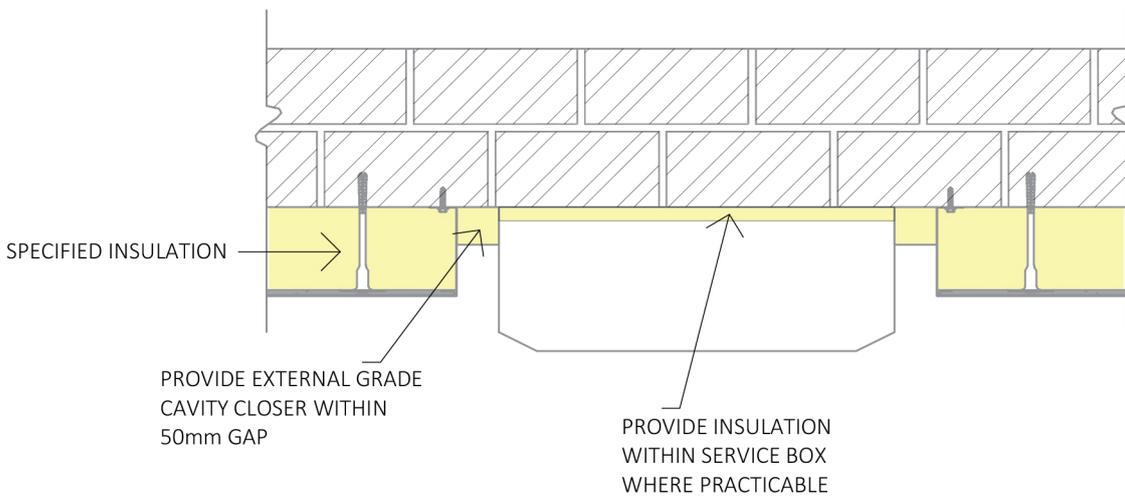
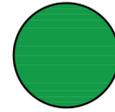


Title:	Flat Roof Abutment
Dwg. No.	TBD-019
Rev.	B

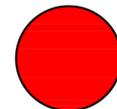
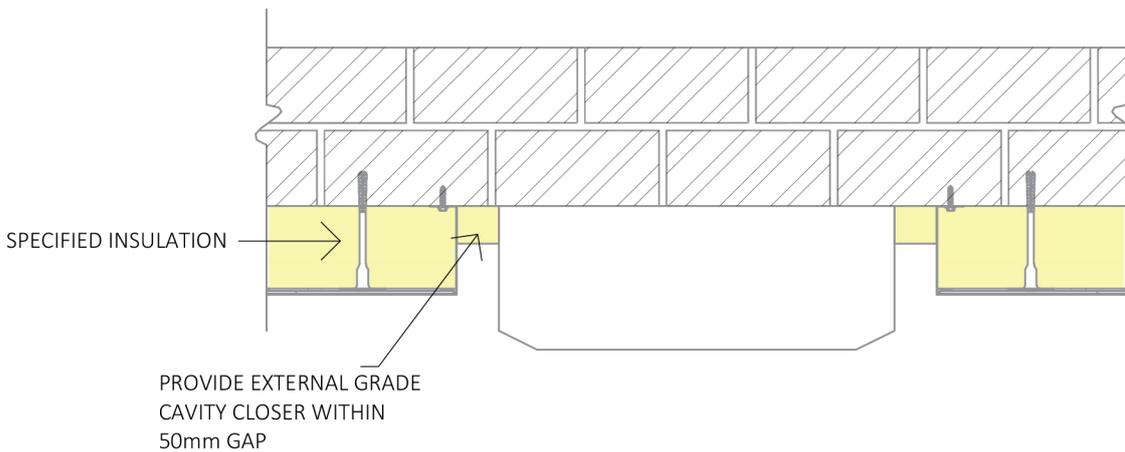
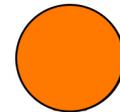
THERMAL BRIDGING DETAILS



NOTE:
MOVEMENT OF SERVICE BOXES SHOULD BE UNDERTAKEN BY THE OWNER OF THE BOX, I.E. THE UTILITY COMPANY. MOVEMENT WITHOUT CONSENT WOULD BE AN ACT OF TRESPASS.

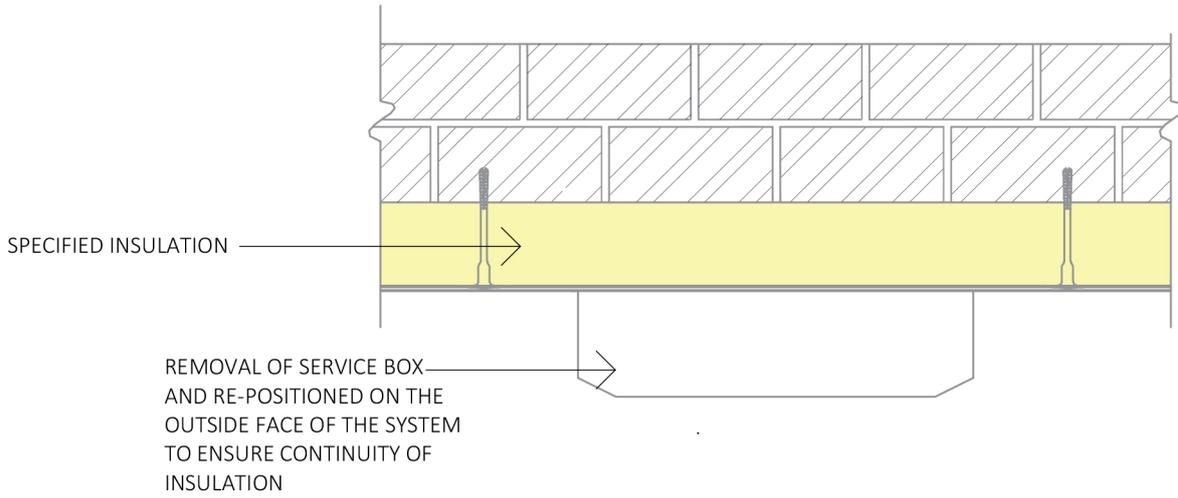


FOR GAP TO EDGES OF BOX REFER TO HHIC GUIDANCE REF T14/0069C THAT STATES ALL METER BOXES SHOULD HAVE A MIN. GAP OF 25mm FOR ACCESS AND MAINTENANCE

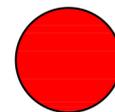
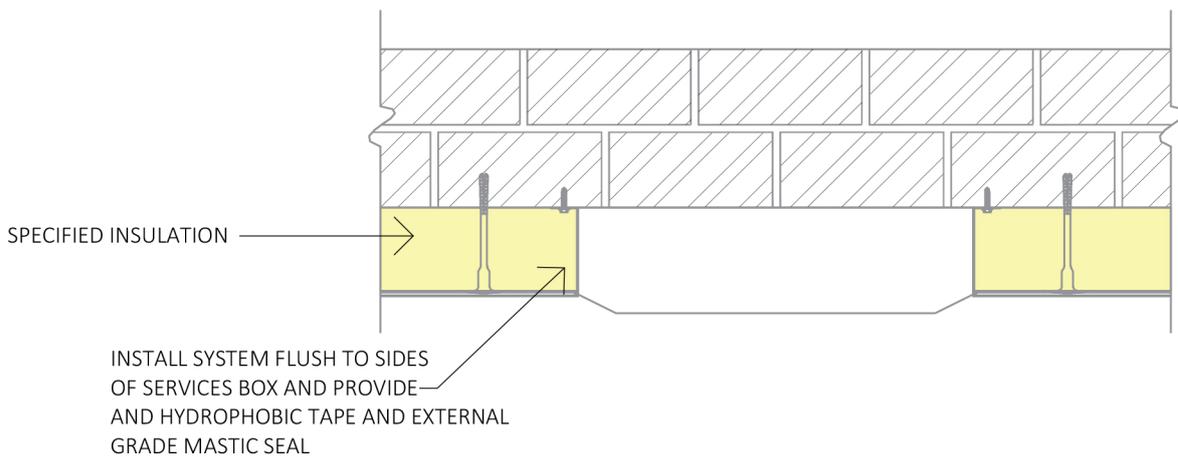
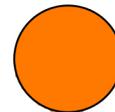
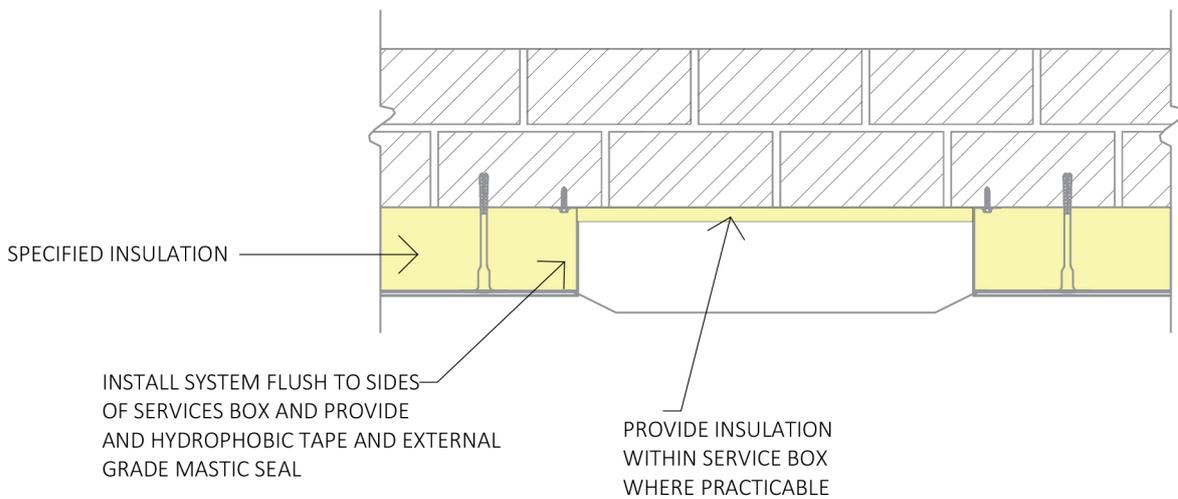
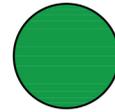


Title:	Service Box - Removable Box
Dwg. No.	TBD-020
Rev.	B

THERMAL BRIDGING DETAILS



NOTE:
MOVEMENT OF SERVICE BOXES SHOULD BE UNDERTAKEN BY THE OWNER OF THE BOX, I.E. THE UTILITY COMPANY, OR MOVEMENT WITHOUT CONSENT WOULD BE AN ACT OF TRESPASS.



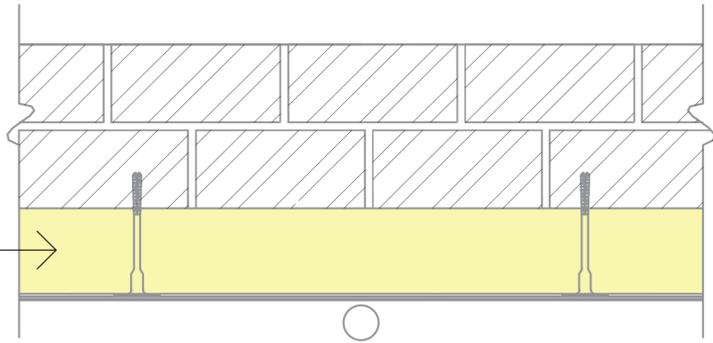
Title:	Service Box - Front Access
Dwg. No.	TBD-021
Rev.	B

THERMAL BRIDGING DETAILS

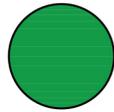
NOTE:
 ALL DETAILS INDICATE FIXINGS THAT
 ARE THERMALLY BROKEN.
 DETAILS HAVE OMITTED THE ADHESIVE LAYER
 TO THE REAR OF THE INSULATION BOARD,
 AGAIN FOR CLARITY

SPECIFIED INSULATION

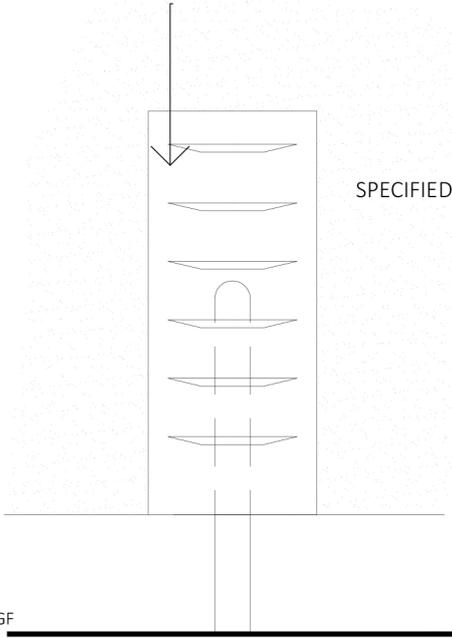
FOR GAS PIPES REFER TO HHIC GUIDANCE
 DOCUMENTS.



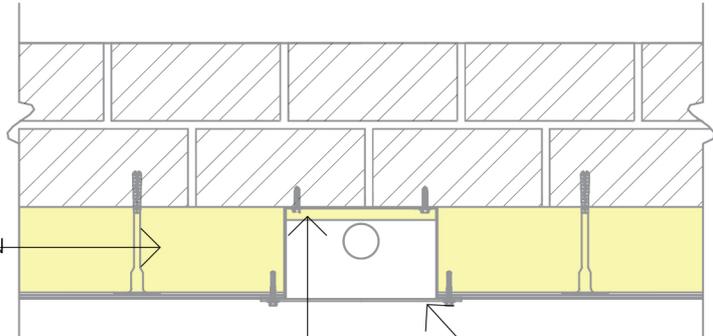
REMOVAL OF CABLE/PIPE
 AND RE-FIXED TO THE SURFACE
 OF THE SYSTEM



VENTILATED COVER PLATE

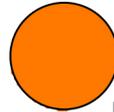


SPECIFIED INSULATION

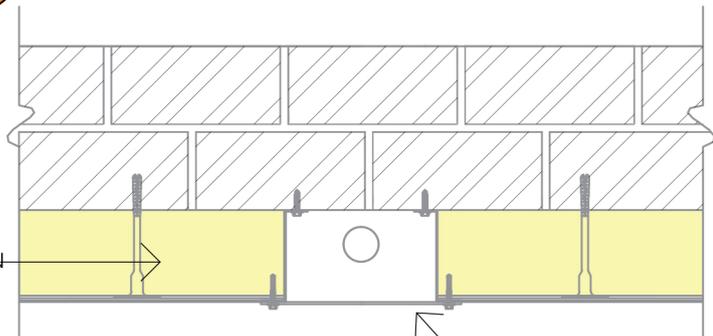


PROVIDE INSULATION BEHIND
 THE PIPE WHERE PRACTICABLE

VENTILATED COVER
 FOR GAS PIPES ONLY

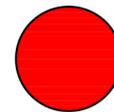


SPECIFIED INSULATION



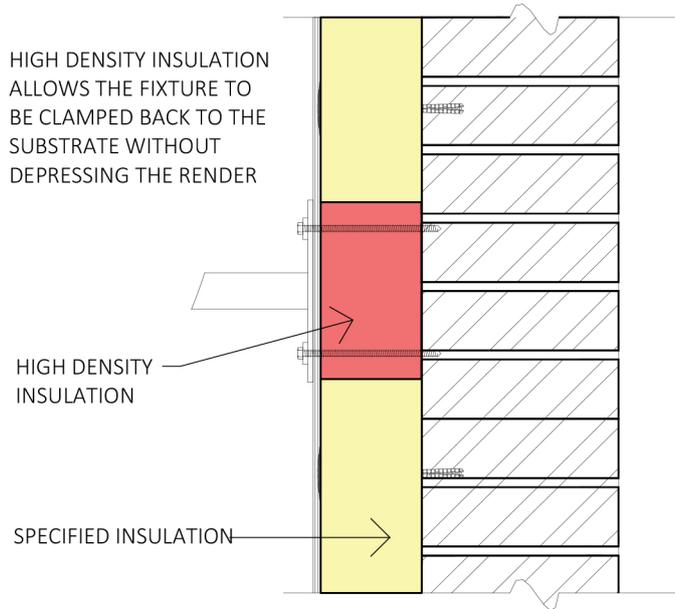
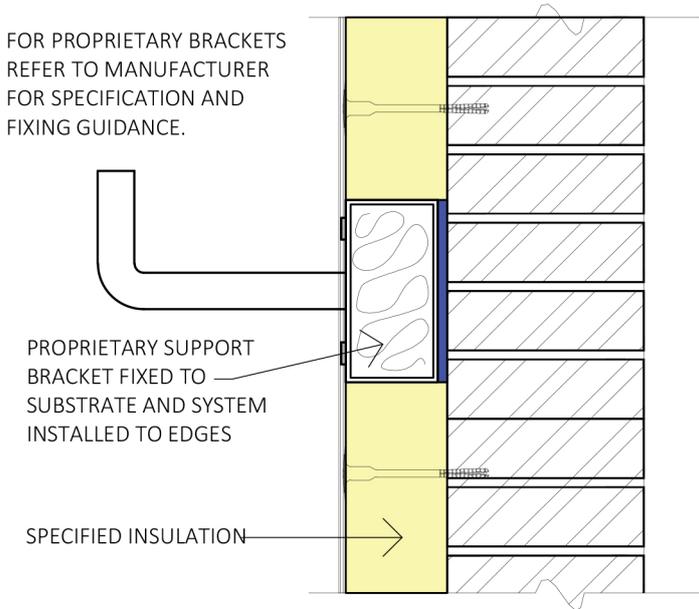
VENTILATED COVER
 FOR GAS PIPES ONLY

FOR ELECTRICAL CABLES
 ENCASE CABLE IN LOOSE INSULATION WITHIN
 COVER PLATE

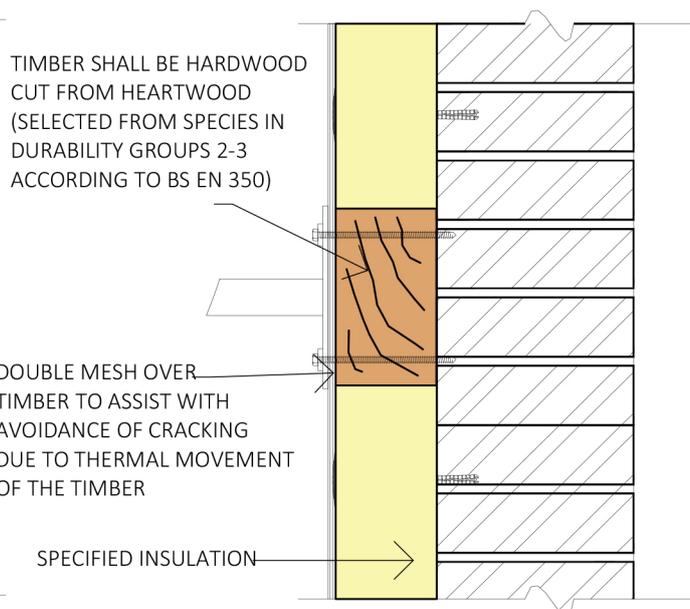
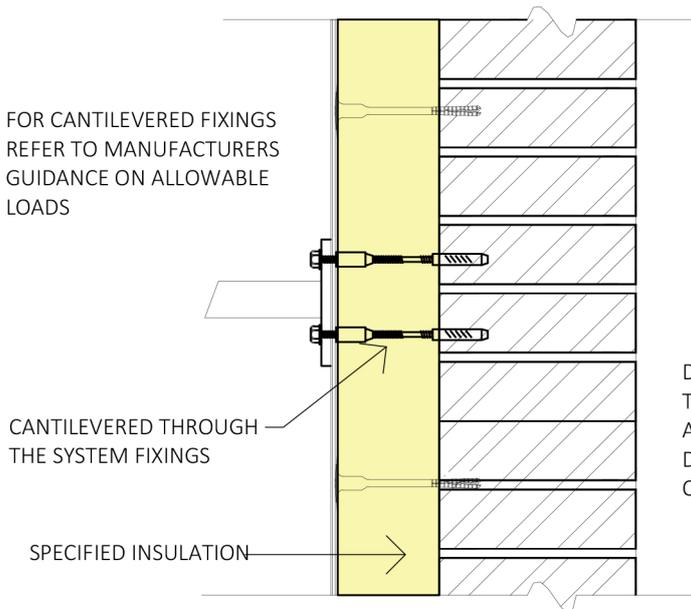
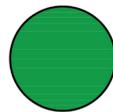


Title:	Gas Pipe / Electrical Cables
Dwg. No.	TBD-022
Rev.	B

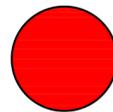
THERMAL BRIDGING DETAILS



WHERE INSULATION ABUTS THE PROPRIETARY BRACKET, HD INSULATION BLOCK OR TREATED TIMBER IT SHOULD BE INSTALLED TIGHT UP WITH ALL GAPS FILLED TO THE FULL DEPTH OF THE INSULATION



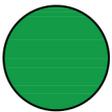
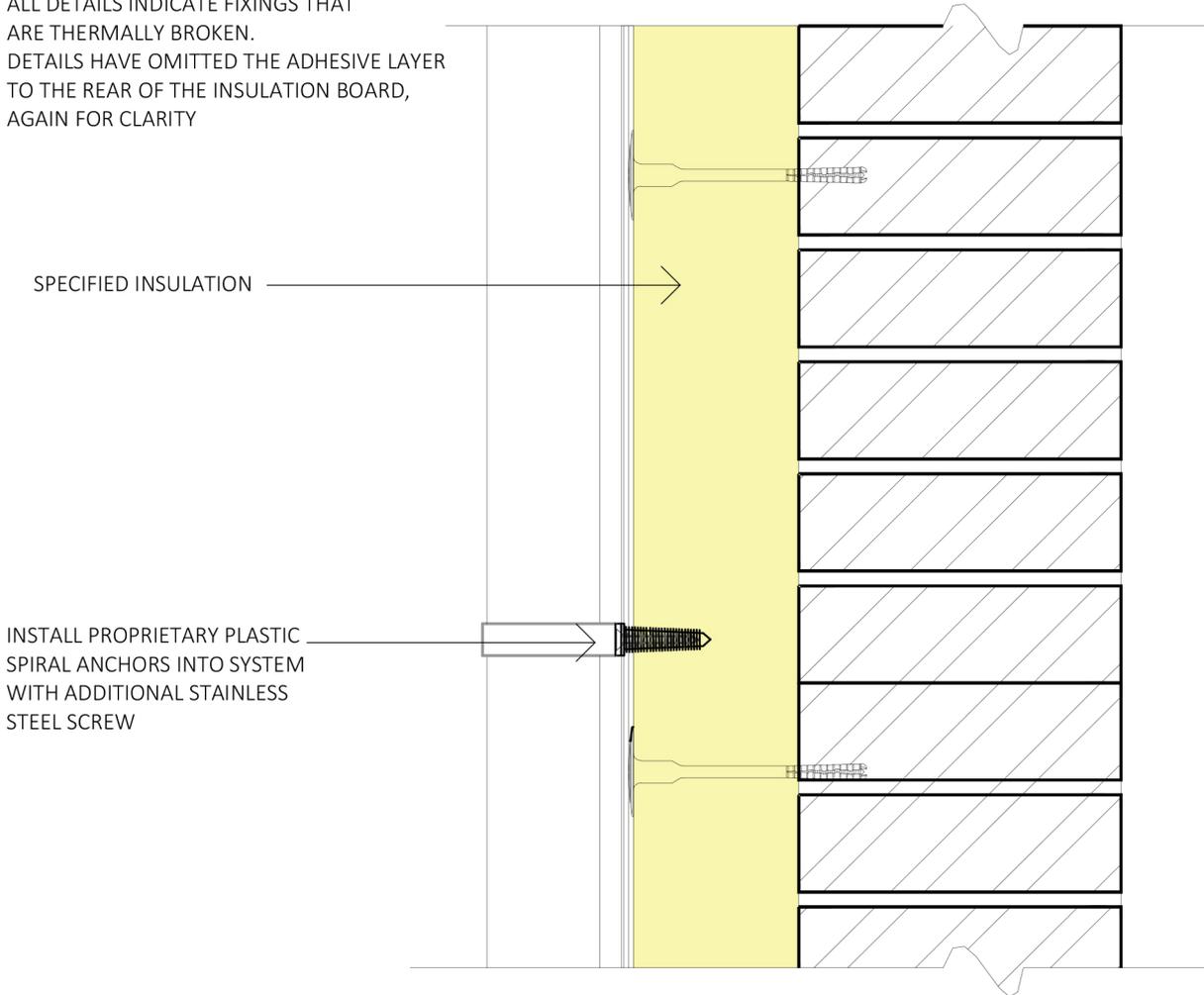
NOTE:
ALL DETAILS INDICATE FIXINGS THAT ARE THERMALLY BROKEN.
DETAILS HAVE OMITTED THE ADHESIVE LAYER TO THE REAR OF THE INSULATION BOARD, AGAIN FOR CLARITY



Title:	Heavy weight external fixtures
Dwg. No.	TBD-024
Rev.	B

THERMAL BRIDGING DETAILS

NOTE:
ALL DETAILS INDICATE FIXINGS THAT
ARE THERMALLY BROKEN.
DETAILS HAVE OMITTED THE ADHESIVE LAYER
TO THE REAR OF THE INSULATION BOARD,
AGAIN FOR CLARITY



Title:	Lightweight external fixtures
Dwg. No.	TBD-024
Rev.	A

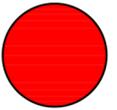
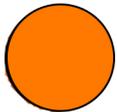
THERMAL BRIDGING DETAILS

NOTE:
ALL DETAILS INDICATE FIXINGS THAT ARE THERMALLY BROKEN.
DETAILS HAVE OMITTED THE ADHESIVE LAYER TO THE REAR OF THE INSULATION BOARD, AGAIN FOR CLARITY

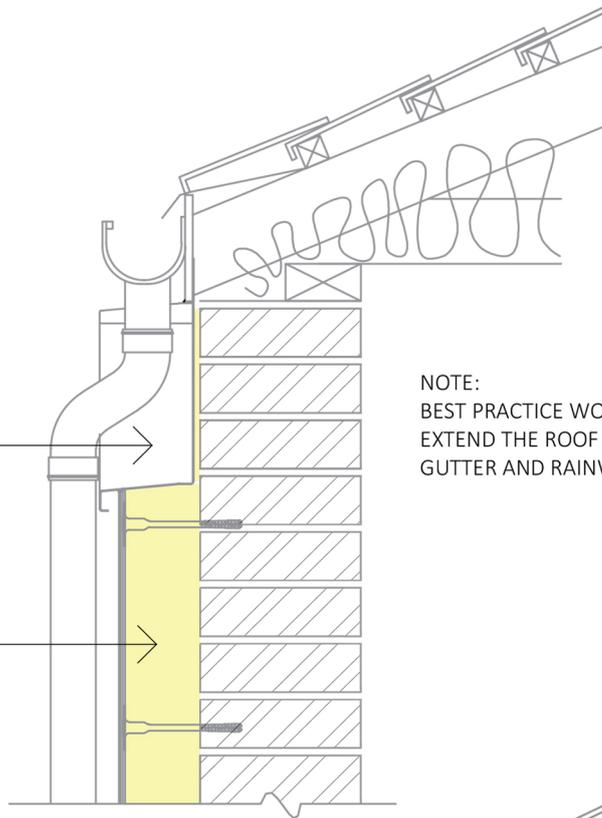
IN ALL INTERFACES BETWEEN THE HOPPER ARRANGEMENT AND THE EWI SYSTEM, A DOUBLE BARRIER SHALL BE INCLUDED TO EXCLUDE WATER FROM ENTERING/DAMAGING THE SYSTEM E.G. HYDROPHOBIC EXPANDING TAPE AND SILICONE MASTIC SEALANT.

RAINWATER PIPE TO BE MOVED TO THE OUTSIDE FACE OF THE SYSTEM. A SWAN NECK BRACKET PROVIDED. ALLOW FOR TRIM DETAIL TO SIDES AND TOP OF SYSTEM, WITH INSULATION APPLIED BEHIND BACK LEG AND BACK LEG TAKEN UP UNDERNEATH FASCIA BOARD TO SEAL THE INSULATION BEHIND THE SWAN NECK SHOULD BE NOT LESS THAN 0.6m²K/W

SPECIFIED INSULATION



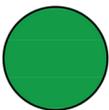
SHOULD THE ABOVE DETAIL BE UNDERTAKEN BUT OMISSION OF INSULATION BEHIND THE TRIM



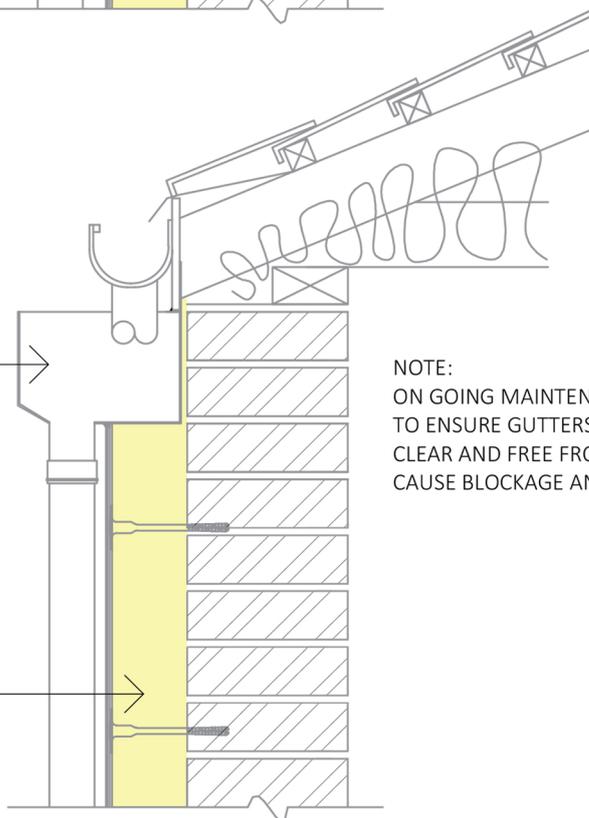
NOTE:
BEST PRACTICE WOULD ALWAYS TO EXTEND THE ROOF LINE AND MOVE THE GUTTER AND RAINWATER PIPE.

REMOVE EXISTING DOWN PIPE AND PROVIDE POWDER COATED HOPPER DEPTH TO BE CONSISTENT WITH SYSTEM DEPTH. PROVIDE INSULATION TO THE REAR OF THE HOPPER WITH AN EXTENDED BACK LEG TAKEN UP UNDERNEATH FASCIA SYSTEM TO BE TAKEN TO SIDES OF HOPPER THE INSULATION BEHIND THE HOPPER SHOULD BE NOT LESS THAN 0.6m²K/W

SPECIFIED INSULATION



BEST



NOTE:
ON GOING MAINTENANCE IS REQUIRED TO ENSURE GUTTERS AND HOPPERS ARE CLEAR AND FREE FROM DEBRIS THAT MAY CAUSE BLOCKAGE AND OVERFLOW.

Title:	Swan Neck Gutter and Pipe
Dwg. No.	TBD-025
Rev.	B