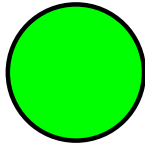
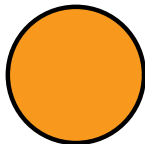


# PAS 2035 Traffic Light System Key

## Detailing For Cold Bridging/Condensation Risk Selection Process






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



Any details that have an amber traffic light indicated 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. The detail should be considered in the context of the property and current ventilation by the EEM designer.

Note: These PAS 2035 details are standard areas highlighted for consideration but are not inclusive of all zones of this project. Any areas identified from the client/contractors/EEM survey site visits should be noted and brought to the attention of SPS Envirowall Limited for comment and possible recommendation of application to avoid cold bridges/condensation risks exposed on bespoke areas of the building

 the future of façades  	Benx Ltd, Lonsdale Chambers, Lonsdale Street, Stoke-on-Trent Staffordshire ST4 4BT Telephone: 0845 130 0983 Email: <a href="mailto:technicalservices@benx.co.uk">technicalservices@benx.co.uk</a>		REV A	DATE 02/23	NOTE First Issue	BY HM	STATUS: PROJECT: PAS 2035	INFORMATION ISO No: DRAWING No: TD-WS2-PAS-M-EPS-R-001 DESCRIPTION: PAS2035 Traffic light key	DRAWN: HM
								CHECK: JT	
								NTS@A4	
								DATE: Feb 23	
							REV: A		

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**THERMAL BRIDGING RISK LEVEL**

**Note :**

- All details indicate fixings that are thermally broken.
- Detail can only be adopted where ground conditions allow. If the ground is a hard surface, pathway or if existing drainage will be disturbed the detail can be difficult to achieve and not practicably possible.

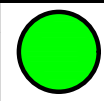
**WEATHERING RISK**

**Risks:**

- Inadequate free drainage of water from the bottom of the render prevents render surface from drying.

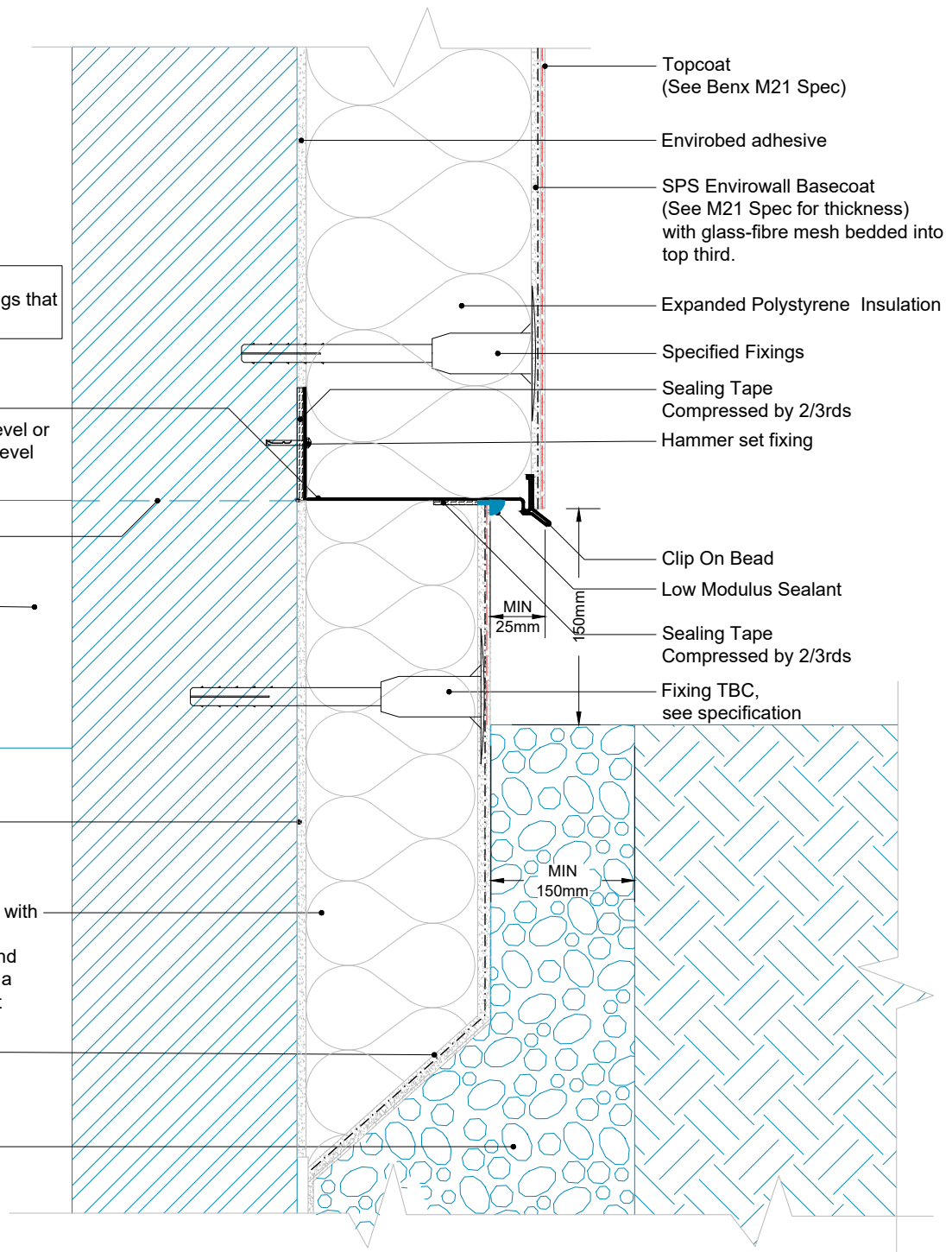
**Solutions:**

- Maintain a clear gap between the bottom edge of the render and the surface below. Bottom of the system protected by a plastic (low thermal conductivity) or metal starter track/base track.



Refer To PAS Key

**Note:**  
All details indicate fixings that are thermally broken.



Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

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A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-002	CHECK: JT
				DESCRIPTION:	INSULATION PLINTH DETAIL	NTS@A4
						DATE: Feb 23
						REV: A

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Refer To PAS Key

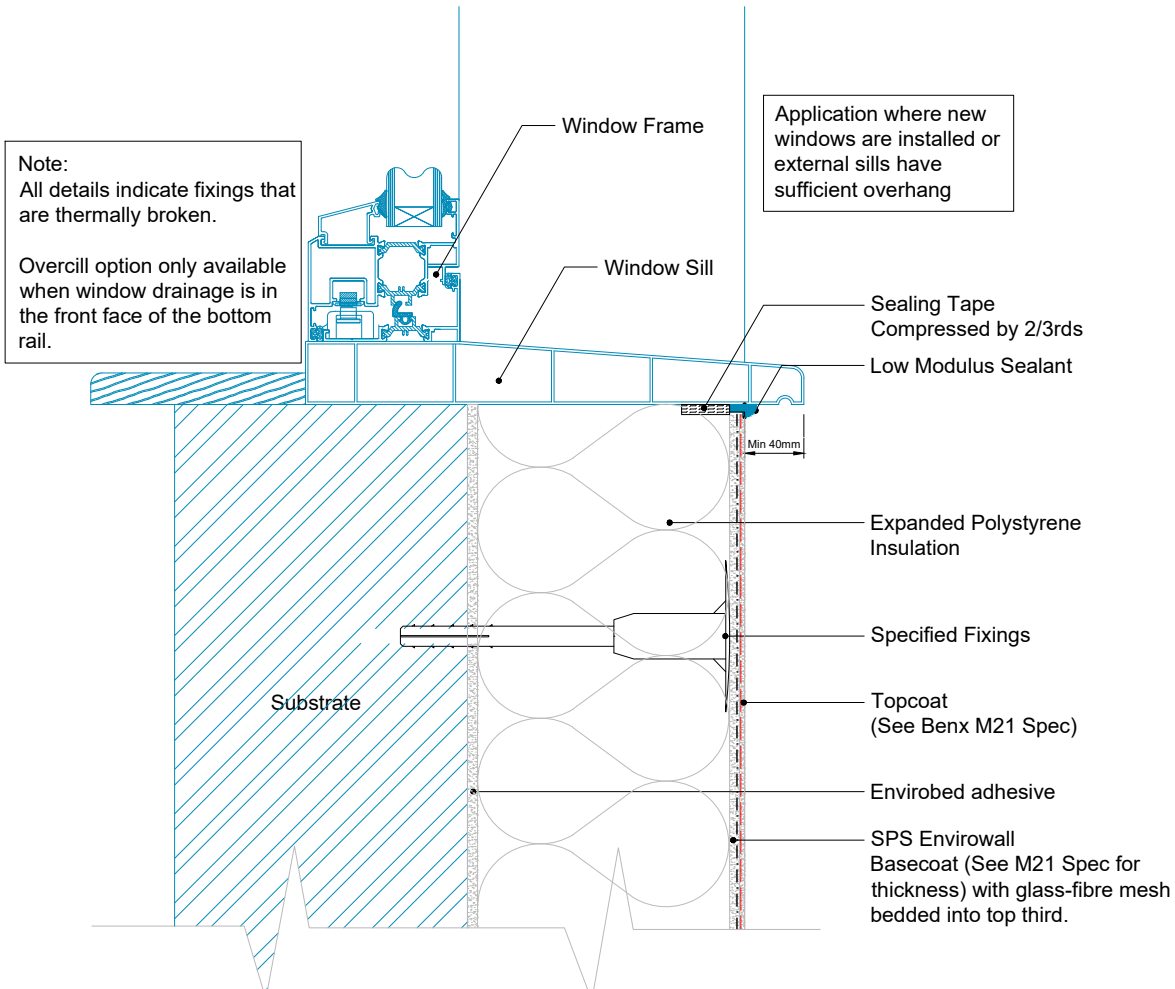
**THERMAL BRIDGING RISK LEVEL**

**WEATHERING RISK**

- Note :**
- All details indicate fixings that are thermally broken.
  - Green, No effect on risk level.
  - Window frame and sill to be thermally broken

- Risks:**
- Window sill projection insufficient to provide effective water shedding.
  - Differential thermal movement at render abutment to sill may allow water ingress.

- Solutions:**
- Windows sill and frame sealed against structural opening and weathertight prior to installation of the EWI system.
  - EWI system sealed against window sill/oversill with fully compressed hydrophobic sealing tape and Low Modulus Sealant.
  - Window sill to provide min 40 mm projection from face of render.
  - If window sill projection is insufficient, provide suitable over- or under-sill (see TD-WS2-PAS-M-EPS-R-042010).
  - Designers should consider the use of sills with greater projection where exposure is Zone 4/very severe (BR262).
  - See BSEN13914-1:2016 Design, preparation and application of external rendering and internal plastering. External rendering.



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Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

REV	DATE	NOTE	BY	STATUS:	INFORMATION
A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:
				DRAWING No:	TD-WS2-PAS-M-EPS-R-007
				DESCRIPTION:	WINDOW SILL (EXTENTION)

DRAWN: HM
CHECK: JT
NTS@A4
DATE: Feb 23
REV: A

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**THERMAL BRIDGING RISK LEVEL**

**WEATHERING RISK**

**Note :**

- All details indicate fixings that are thermally broken.
- Green, No effect on risk level
- Window frame and sill to be thermally broken. All sills should have end caps and be fixed using either mechanical fixings with plastic caps or high strength adhesives.



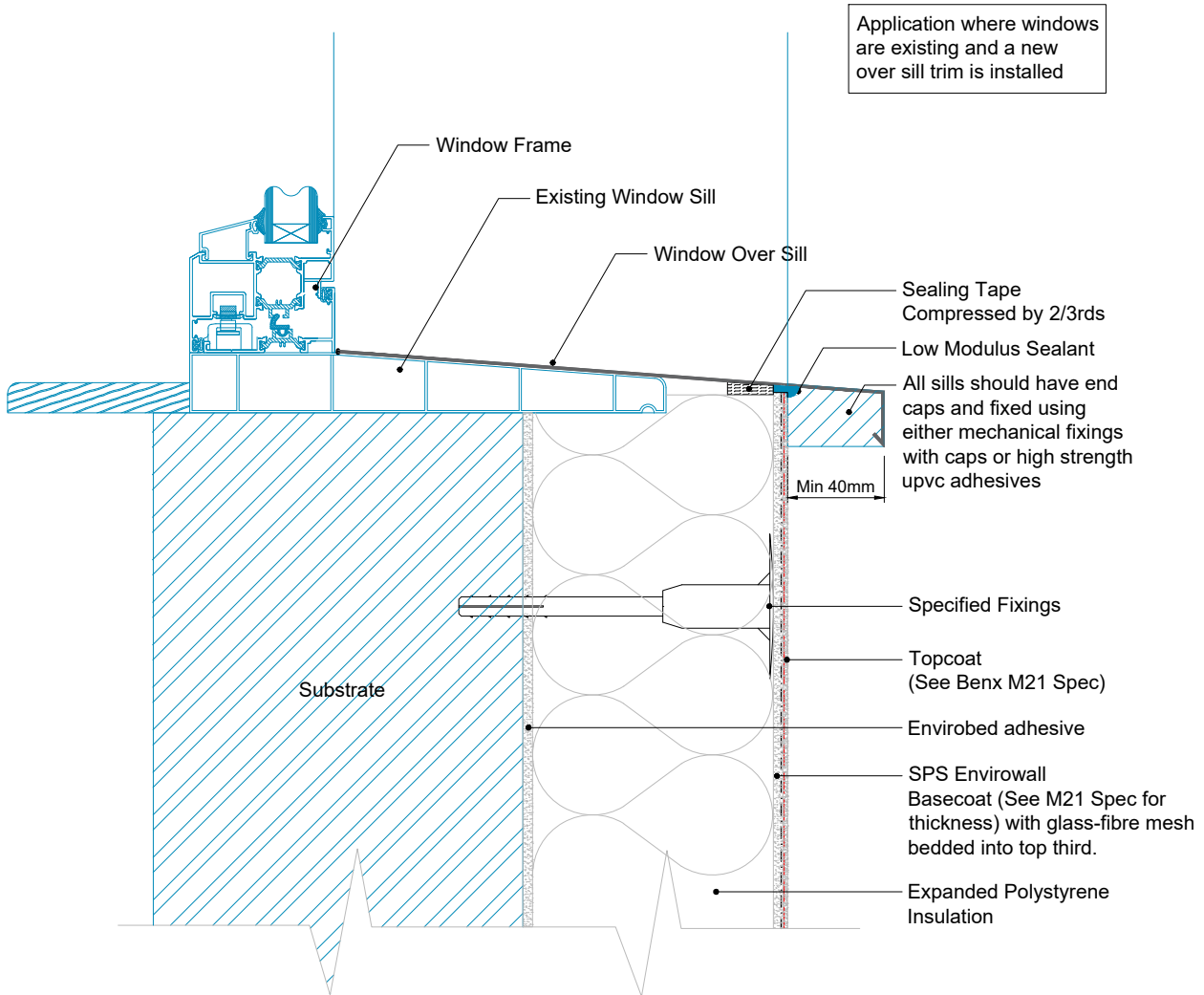
Amber if non-thermally broken sill. Note that amber will increase the assessed inherent technical risk level in table B2 of PAS 2035 by 1

**Risks:**

- Window sill projection insufficient to provide effective water shedding.
- Differential thermal movement at render abutment to sill may allow water ingress.

**Solutions:**

- Windows sill and frame sealed against structural opening and weathertight prior to installation of the EWI system.
- EWI system sealed against window sill/oversill with fully compressed hydrophobic sealing tape and Low Modulus Sealant.
- Window sill to provide min 40 mm projection from face of render.\*
- If window sill projection is insufficient, provide suitable over- or under-sill (See TD-WS2-PAS-M-EPS-R-042010) with min. 40 mm projection.
- Designers should consider the use of sills with greater projection (50 mm) where exposure is Zone 4/very severe (BR262).
- System should be sealed against the frame by means of a hydrophobic tape and mastic or proprietary stop bead with integral hydrophobic tape.
- Ensure that existing drainage holes are not blocked, or install new drainage holes.



Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
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A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-008	CHECK: JT
				DESCRIPTION: WINDOW OVERSILL		NTS@A4
						DATE: Feb 23
						REV: A

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**THERMAL BRIDGING RISK LEVEL**


**WEATHERING RISK**



Refer To PAS Key

**Note :**

- All details indicate fixings that are thermally broken.
- Green, No effect on risk level
- Window frame and sill to be thermally broken. All sills should have end caps and be fixed using either mechanical fixings with plastic caps or high strength adhesives.

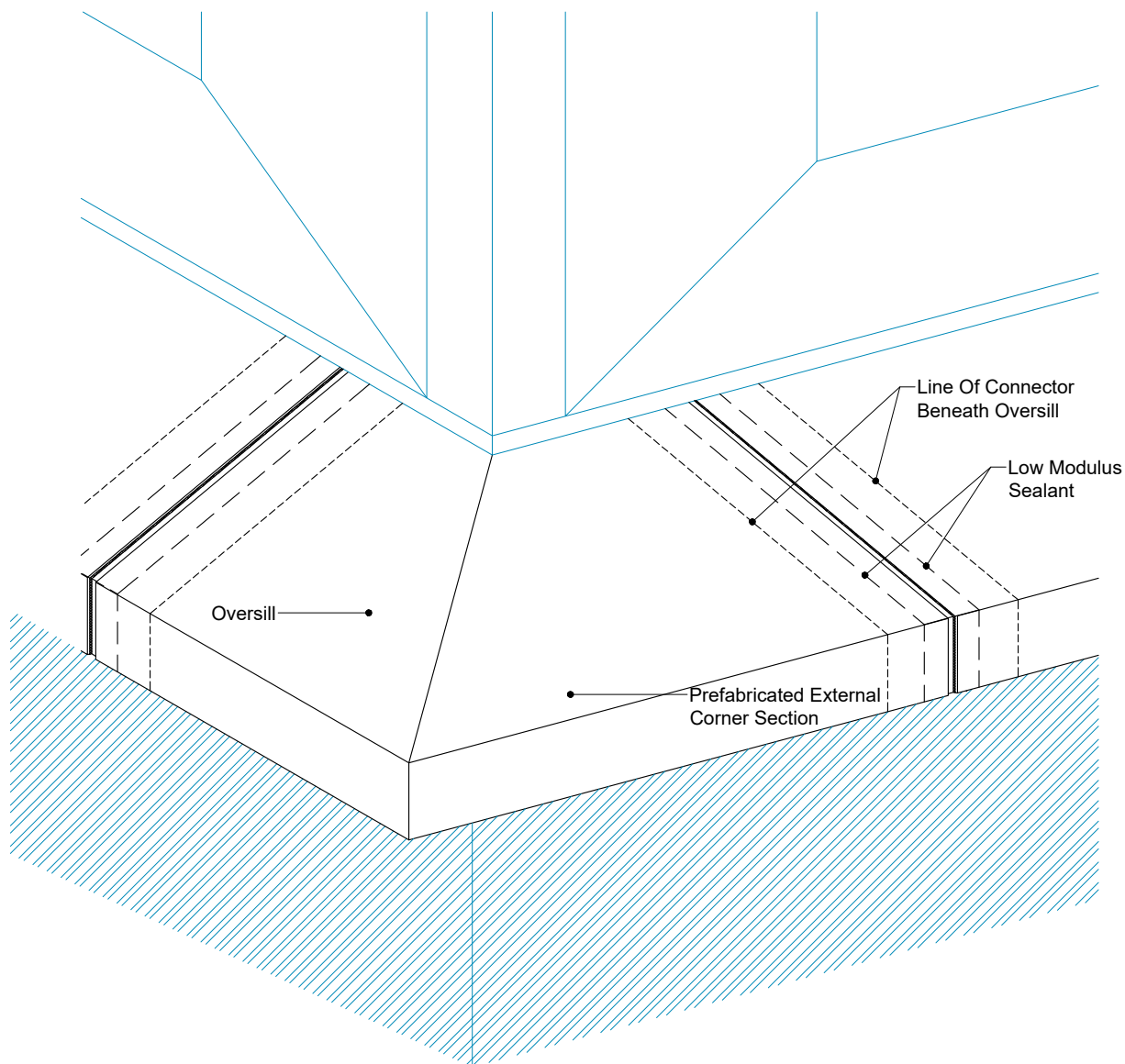
 Amber if non-thermally broken sill. Note that amber will increase the assessed inherent technical risk level in table B2 of PAS 2035 by 1

**Risks:**

- Window sill projection insufficient to provide effective water shedding.
- Water penetration at unsealed joint.

**Solutions:**


- Windows sill and frame sealed against structural opening and weathertight prior to installation of the EWI system.
- Oversill to provide min 40 mm projection from face of render.\*
- Designers should consider the use of sills with greater projection (50 mm) where exposure is Zone 4/very severe (BR262).
- Adjacent sill sections joined together with metal connectors with seals on both sides of the joint.

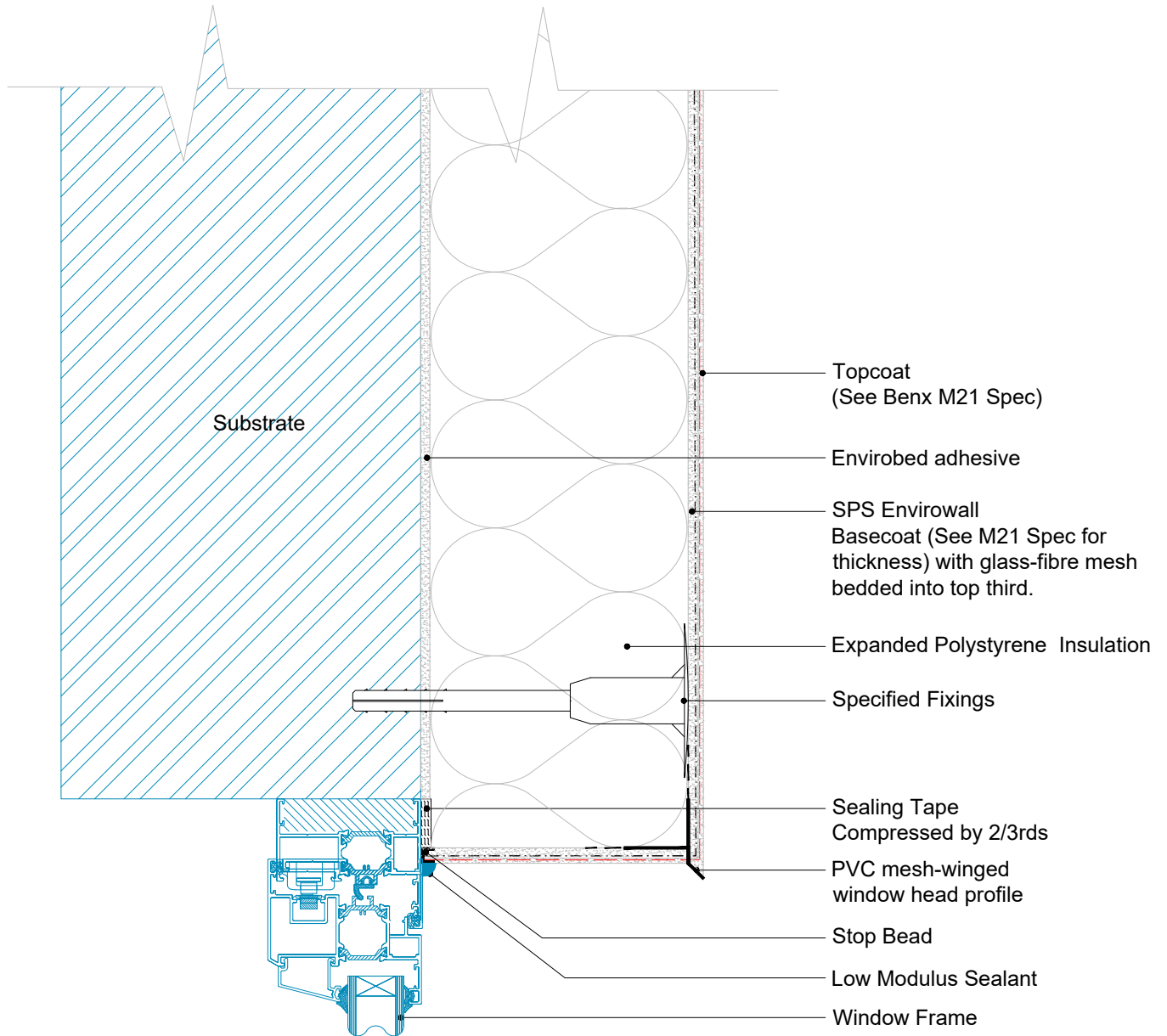


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Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
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A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No: TD-WS2-PAS-M-EPS-R-010		CHECK: JT
				DESCRIPTION: OVERSILL EXTERNAL CORNER		NTS@A4
						DATE: Feb 23
						REV: A

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
THERMAL BRIDGING RISK LEVEL	WEATHERING RISK		 Refer To PAS Key
<b>Note :</b> <ul style="list-style-type: none"> <li>All details indicate fixings that are thermally broken.</li> <li>Green, No effect on risk level</li> <li>Ensure EPS Insulation is taken over the window frame by 15 - 20 mm.</li> <li>Window to be thermally broken frame.</li> </ul>	<b>Risks:</b> <ul style="list-style-type: none"> <li>Water back-tracking to window frame</li> </ul>	<b>Solutions:</b> <ul style="list-style-type: none"> <li>Windows frame sealed against structural opening and weathertight prior to installation of the EWI system.</li> <li>EWI system sealed against window frame at head using proprietary window sealing strip/reveals bead or sealing tape, stop bead and low-modulus sealant.</li> <li>Drip edge corner bead at arris in lieu of standard corner bead to provide improved water shedding at render return into reveal at head.</li> </ul>	

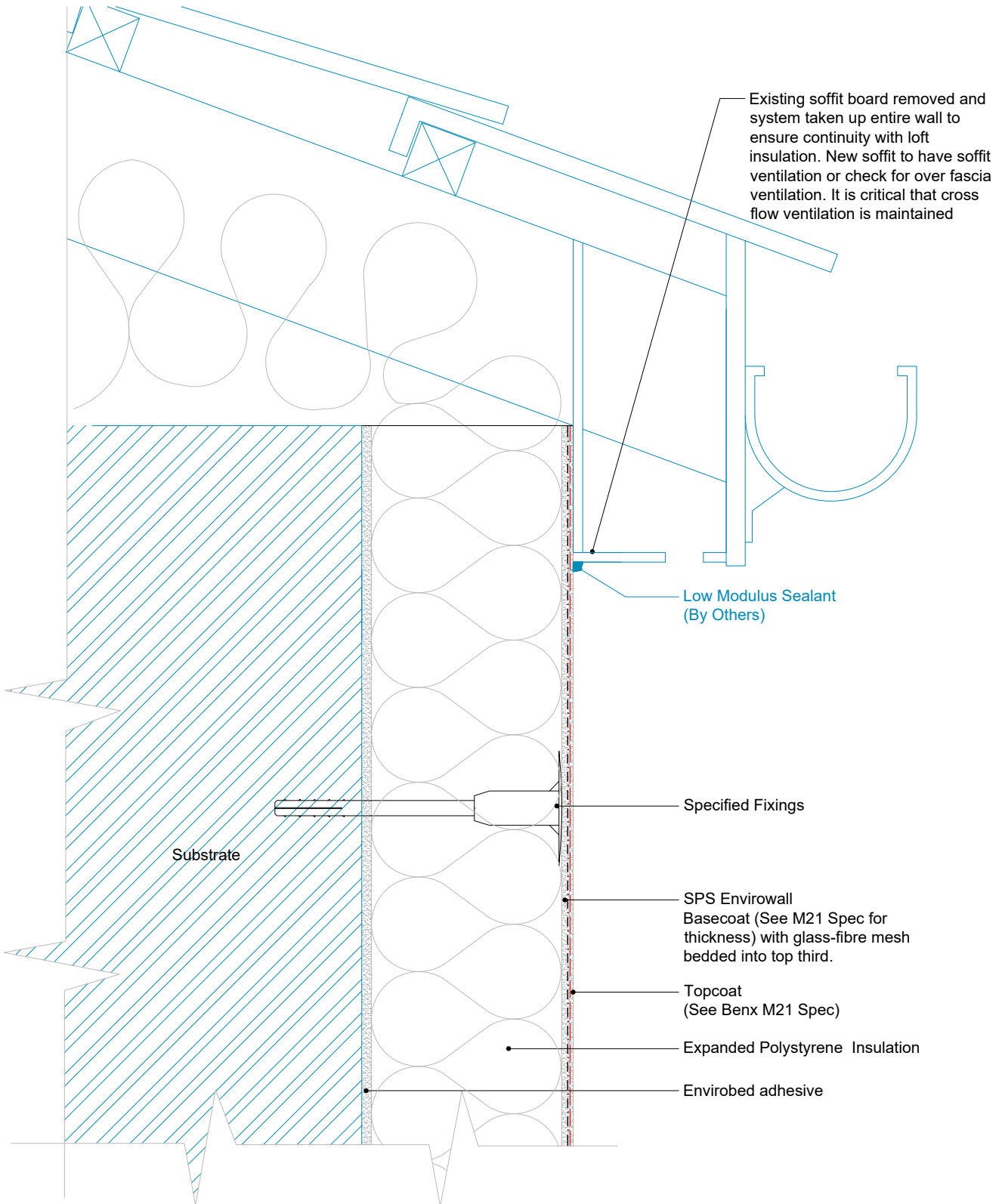





Benx Ltd, Lonsdale Chambers,  
 Lonsdale Street,  
 Stoke-on-Trent  
 Staffordshire  
 ST4 4BT  
 Telephone: 0845 130 0983  
 Email:  
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A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-012	CHECK: JT
				DESCRIPTION:	INSULATION TO OVER FLUSH WINDOW HEAD	NTS@A4
						DATE: Feb 23
						REV: A

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THERMAL BRIDGING RISK LEVEL	WEATHERING RISK		 Refer To PAS Key
<b>Note :</b> <ul style="list-style-type: none"> <li>All details indicate fixings that are thermally broken.</li> <li>Green, No effect on risk level</li> <li>Ensure ventilation pathway is maintained: It is critical that cross-flow ventilation is maintained.</li> <li>Existing soffit board removed and system taken up entire wall to ensure continuity with loft insulation.</li> <li>Loft insulation must extend across top of wall and across top of external wall insulation.</li> </ul>	<b>Risks:</b> <ul style="list-style-type: none"> <li>EWI system protected by roof overhand at eaves.</li> </ul>	<b>Solutions:</b> <ul style="list-style-type: none"> <li>N/A</li> </ul>	



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		PROJECT: PAS 2035	DRAWING No: TD-WS2-PAS-M-EPS-R-016	CHECK: JT
		DESCRIPTION: EXTENDED OVERHANGING EAVES (1)	DATE: Feb 23	NTS@A4
		REV: A	REV: A	DATE: Feb 23

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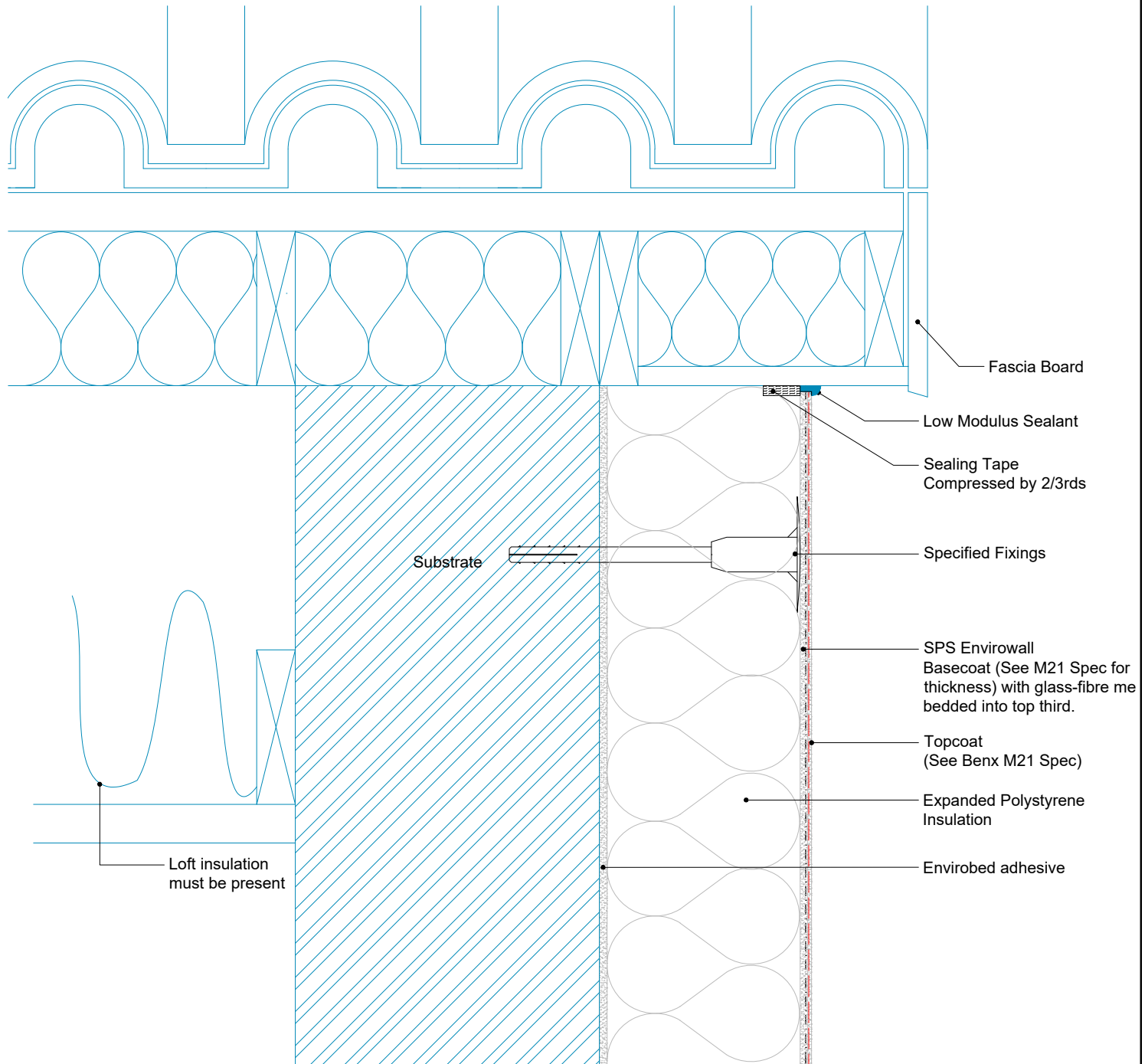
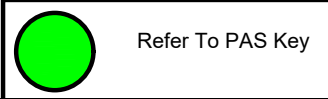
**THERMAL BRIDGING RISK LEVEL**

**WEATHERING RISK**

- Note :
- All details indicate fixings that are thermally broken.
  - Green, No effect on risk level
  - Ensure loft insulation extends across top of external wall insulation.
  - System installed to underside of existing soffit and fascia or, if practicable, remove existing fascia and install system as far up the existing wall as possible

- Risks:
- Low. Overhanging verge provides weathering protection to EWI system. Larger overhang offers greater protection.

- Solutions:
- Roof extended as necessary to provide overhang to EWI system.



Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
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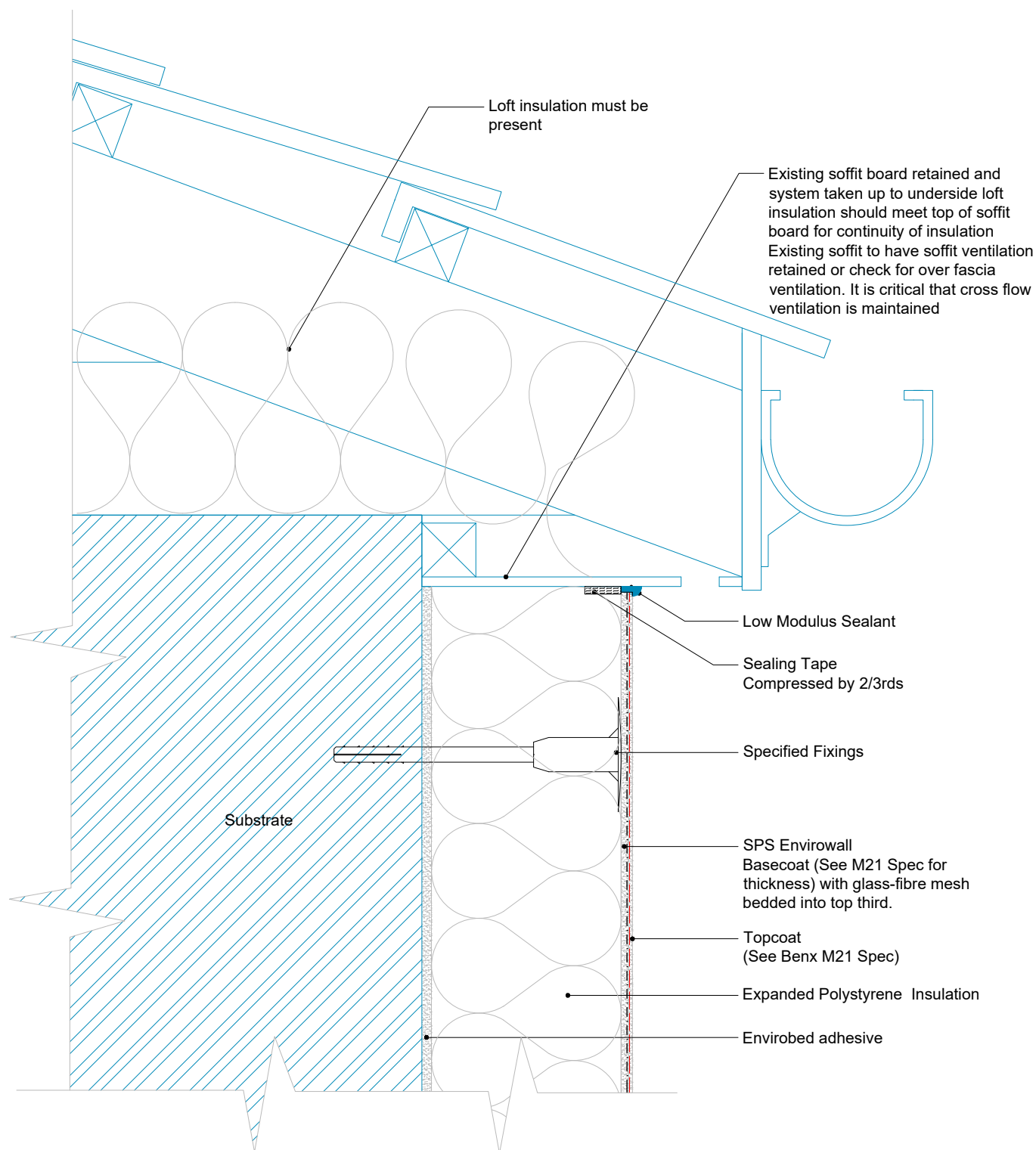
REV	DATE	NOTE	BY	STATUS:	INFORMATION	DRAWN:
A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-017	CHECK: JT
				DESCRIPTION:	EXTENDED OVERHANGING VERGE	NTS@A4
						DATE: Feb 23
						REV: A

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
Refer To PAS Key

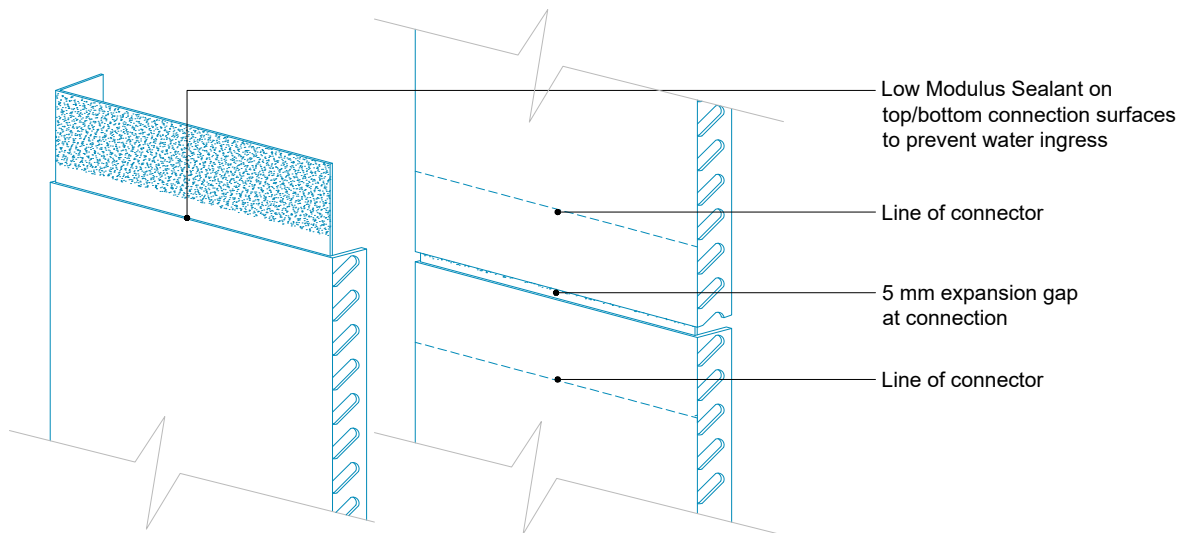
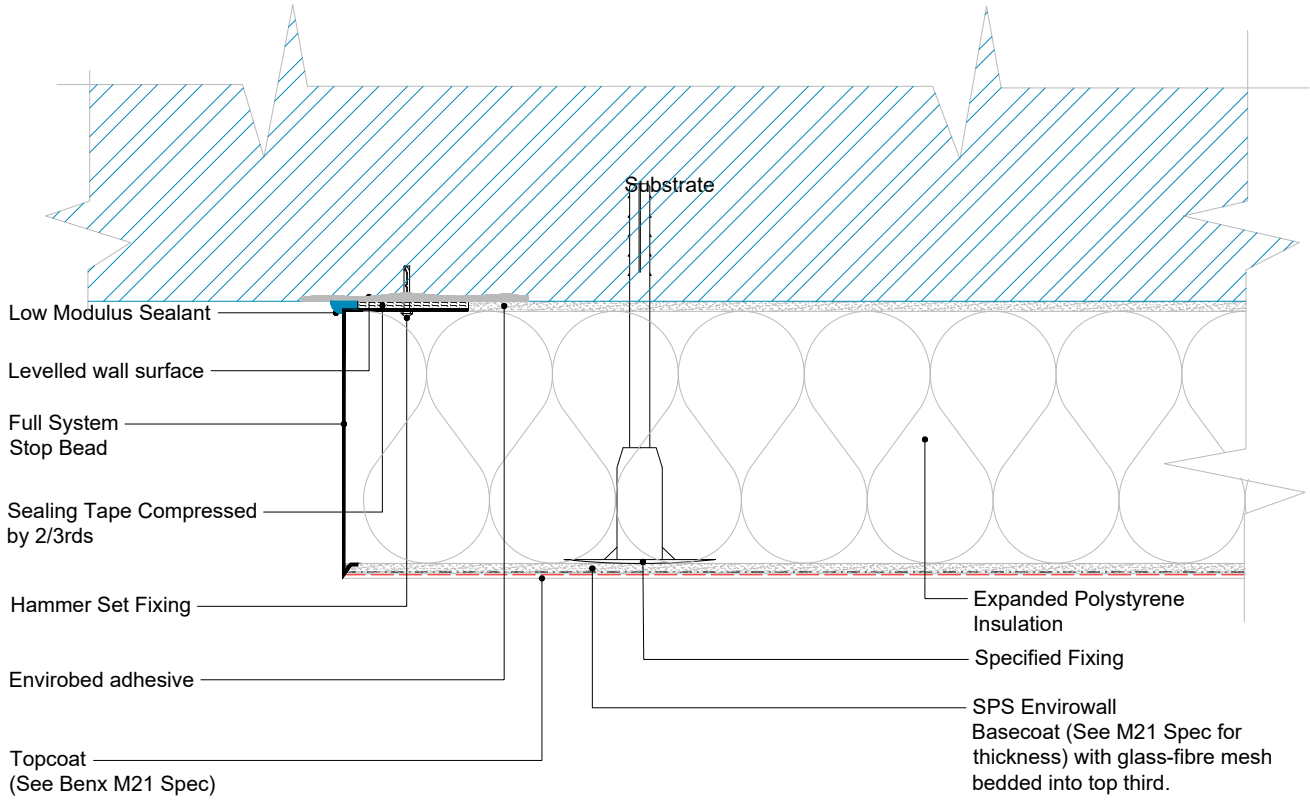


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Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
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A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-020	CHECK: JT
				DESCRIPTION:	Soffit detail	NTS@A4
						DATE: Feb 23
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THERMAL BRIDGING RISK LEVEL	WEATHERING RISK		 Refer To PAS Key
Note : <ul style="list-style-type: none"> <li>All details indicate fixings that are thermally broken.</li> <li>Green, no effect on risk level</li> </ul>	Risks: <ul style="list-style-type: none"> <li>Inadequate seal between full system stop bead and wall surface allows water penetration behind EWI system.</li> <li>Adjoining sections of full system stop bead inadequately sealed: water ingress occurs.</li> </ul>	Solutions: <ul style="list-style-type: none"> <li>Surface against which full system stop bead is attached shall be filled/levelled to provide a flat surface against which a weathertight seal can be made.</li> <li>Full system stop bead sealed against wall face.</li> <li>Adjacent sections of full system stop bead joined together with metal connectors with seals both side of joint.</li> </ul>	



Stop bead connecting joint

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			REV	DATE	NOTE	BY																								
			A	02/23	First Issue	HM																								
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**THERMAL BRIDGING RISK LEVEL**

**WEATHERING RISK**



Refer To PAS Key

**Note :**

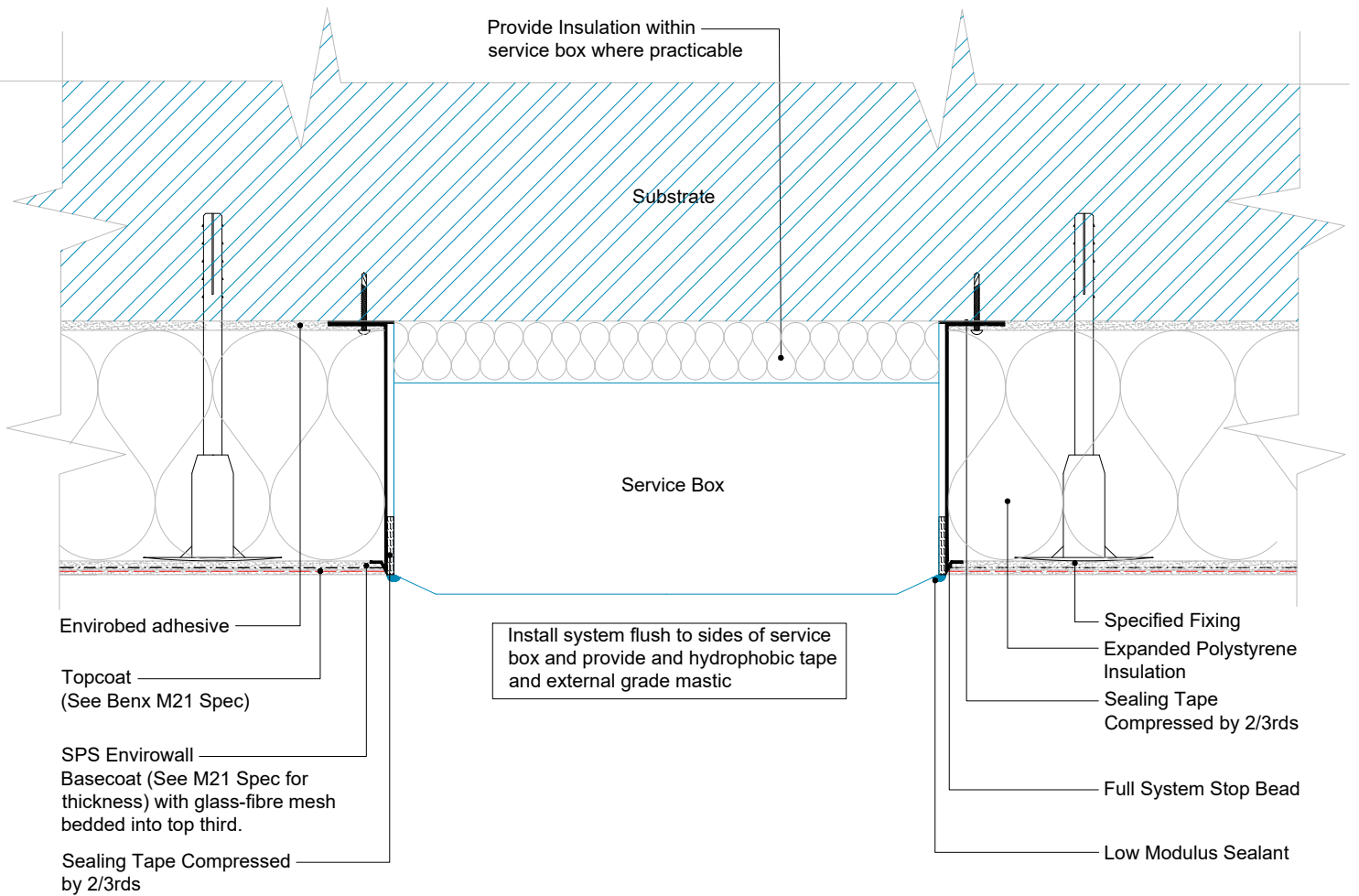
- All details indicate fixings that are thermally broken.
- Movement of service boxes should be undertaken by the owner of the box, ie The utility company, or movement without consent would be an act of trespass.
- Amber. Note that amber will increase the assessed inherent technical risk level in table B2 of PAS 2035 by 1.
- Provide insulation within service box where practicable/permisible.
- Refer to specification for the installation of external wall insulation ensuring safety & operation of fuel burning appliances V.1.0.31st March 2017.

**Risks:**

- N/A

**Solutions:**

- N/A



Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

REV	DATE	NOTE	BY	STATUS:	INFORMATION	DRAWN:
A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-024	CHECK: JT
				DESCRIPTION:	SERVICE BOX - FRONT ACCESS	NTS@A4
						DATE: Feb 23
						REV: A

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**THERMAL BRIDGING RISK LEVEL**

**WEATHERING RISK**

**Note :**

- All details indicate fixings that are thermally broken.
- Green, no effect on risk level

**Risks:**

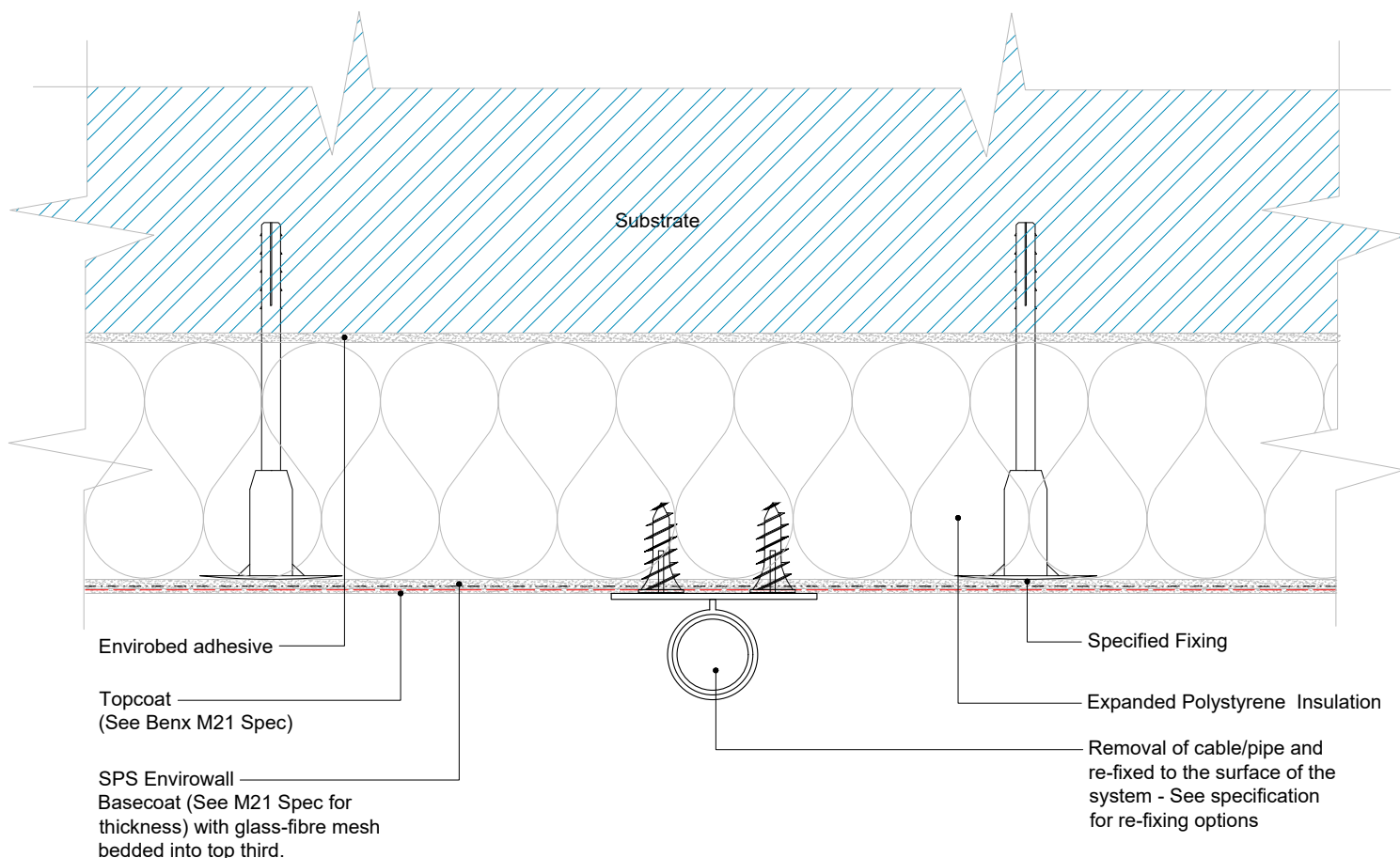
- N/A

**Solutions:**

- N/A



Refer To PAS Key




Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
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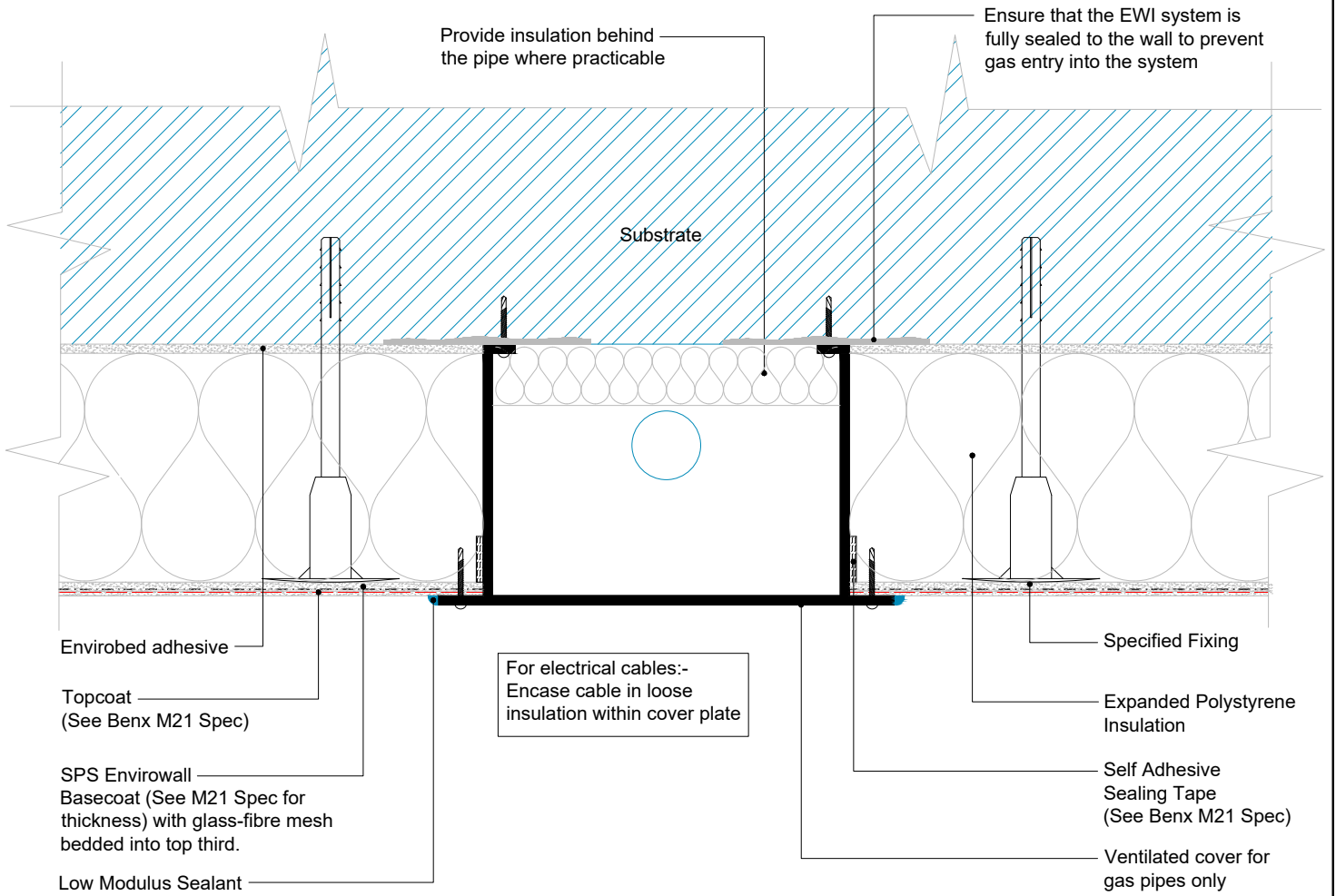
REV	DATE	NOTE	BY
A	02/23	First Issue	HM

STATUS:	INFORMATION
PROJECT: PAS 2035	ISO No:
DRAWING No:	TD-WS2-PAS-M-EPS-R-025
DESCRIPTION:	PIPE / ELECTRICAL CABLES

DRAWN: HM
CHECK: JT
NTS@A4
DATE: Feb 23
REV: A

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<b>THERMAL BRIDGING RISK LEVEL</b>	<b>WEATHERING RISK</b>	 Refer To PAS Key
<b>Note :</b> <ul style="list-style-type: none"> <li>All details indicate fixings that are thermally broken.</li> <li>Amber. Note that amber will increase the assessed inherent technical risk level in table B2 of PAS 2035 by 1.</li> <li>Provide insulation within gas pipe/electrical services enclosure where practicable/ permissible.</li> </ul>	<b>Risks:</b> <ul style="list-style-type: none"> <li>N/A</li> </ul>	



Benx Ltd, Lonsdale Chambers,  
 Lonsdale Street,  
 Stoke-on-Trent  
 Staffordshire  
 ST4 4BT  
 Telephone: 0845 130 0983  
 Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

REV	DATE	NOTE	BY
A	02/23	First Issue	HM

STATUS:	INFORMATION
PROJECT: PAS 2035	ISO No:
DRAWING No:	TD-WS2-PAS-M-EPS-R-026
DESCRIPTION:	GAS PIPE / ELECTRICAL CABLES COVER

DRAWN: HM
CHECKED: JT
NTS@A4
DATE: Feb 23
REV: A

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**THERMAL BRIDGING RISK LEVEL**

**WEATHERING RISK**

**Note :**

- All details indicate fixings that are thermally broken.
- Green, No effect on risk level
- Thermally broken, cantilevered through fixing. Refer to manufacturer for allowable loadings.

**Risks:**

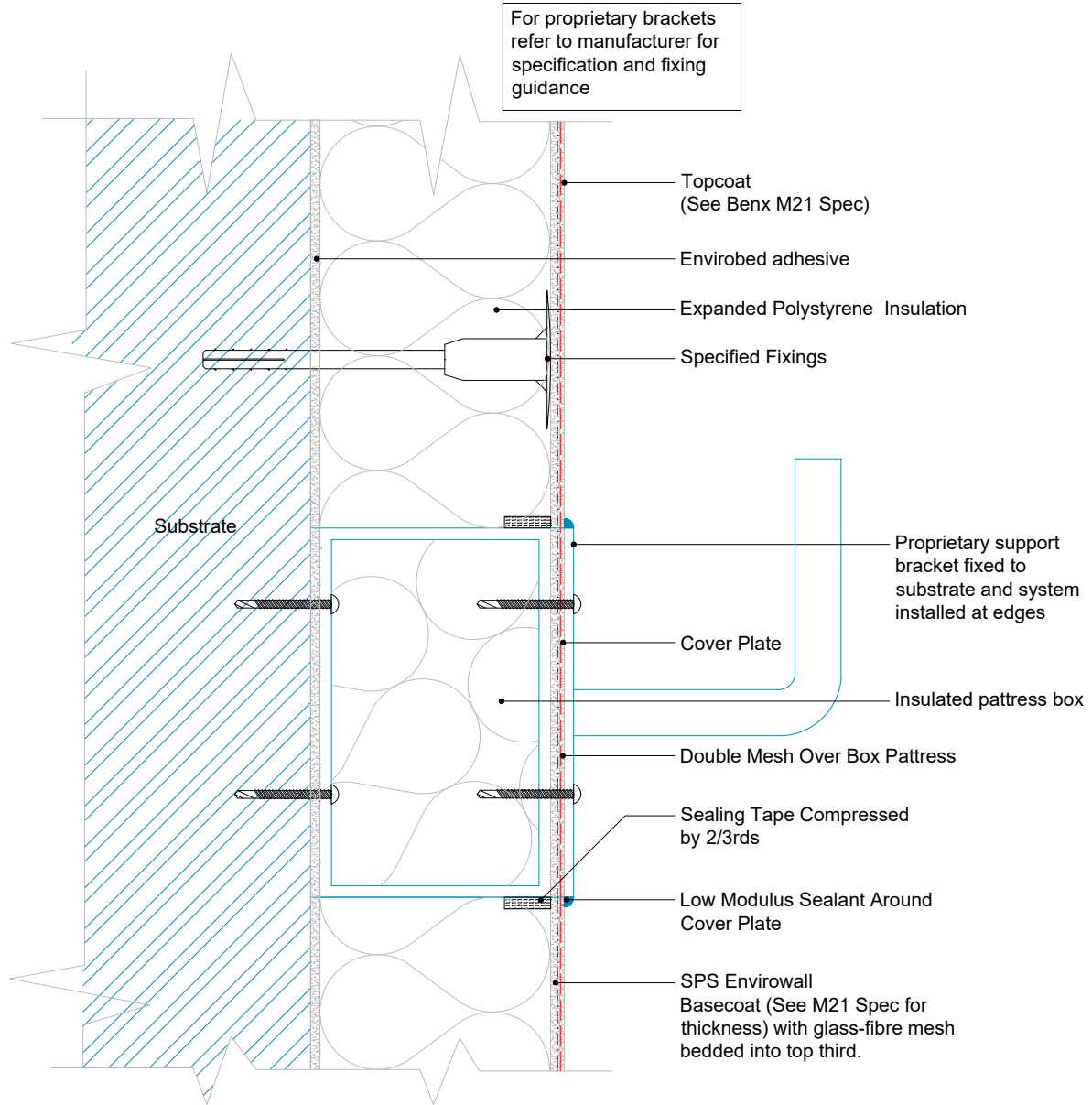
- Water ingress into insulation at fixings.

**Solutions:**

- Ensure fixings are sealed against render with EPDM gaskets or proprietary waterproof sealant.




Refer To PAS Key



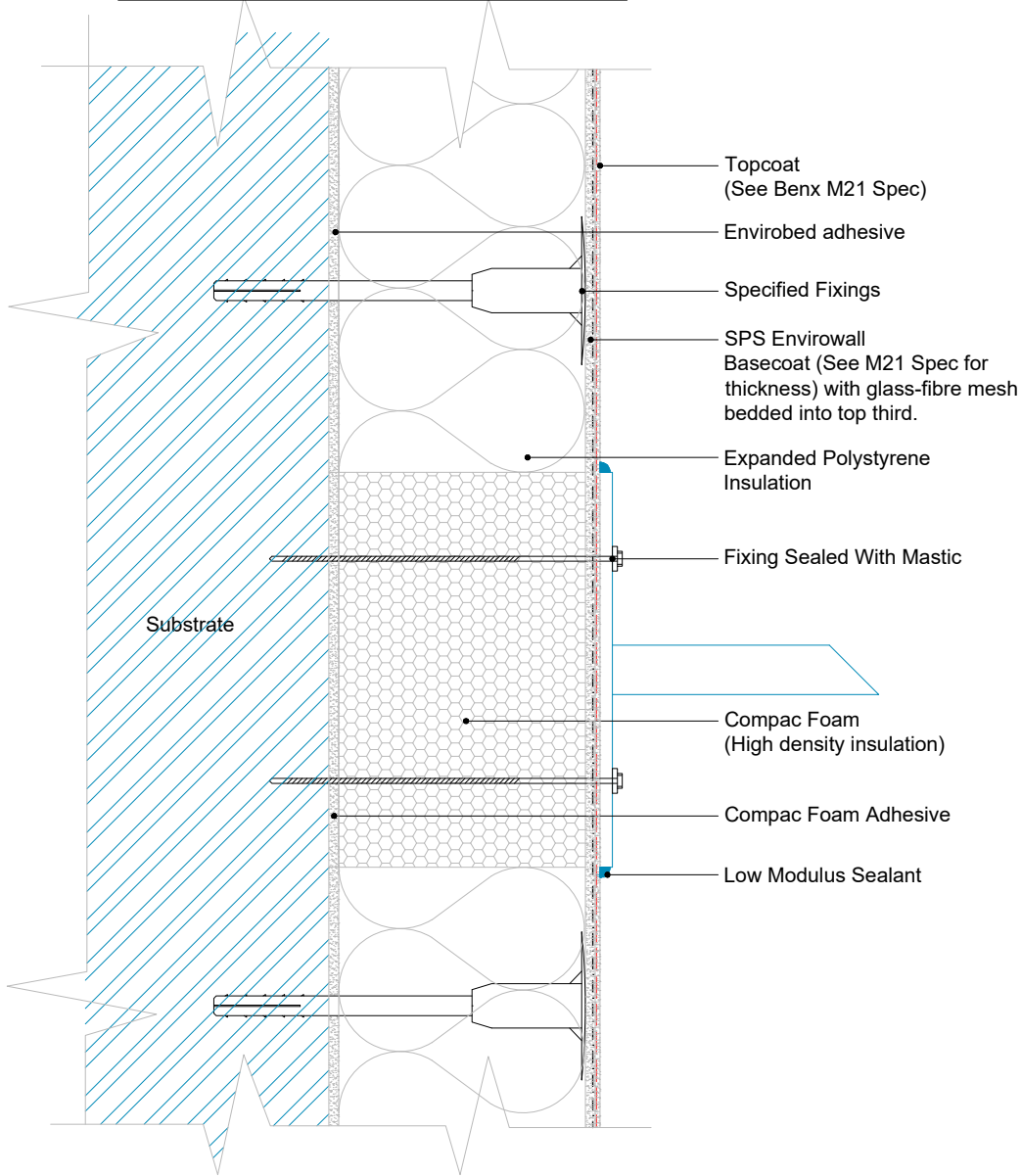
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Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
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A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-027	CHECK: JT
				DESCRIPTION:	HEAVY WEIGHT EXTERNAL FIXTURE Opt 1	NTS@A4
						DATE: Feb 23
						REV: A

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THERMAL BRIDGING RISK LEVEL	WEATHERING RISK		 Refer To PAS Key
<b>Note :</b> <ul style="list-style-type: none"> <li>All details indicate fixings that are thermally broken.</li> <li>Green, No effect on risk level</li> <li>Thermally broken, cantilevered through fixing. Refer to manufacturer for allowable loadings.</li> </ul>	<b>Risks:</b> <ul style="list-style-type: none"> <li>Water ingress into insulation at fixings.</li> </ul>	<b>Solutions:</b> <ul style="list-style-type: none"> <li>Ensure fixings are sealed against render with EPDM gaskets or proprietary waterproof sealant.</li> </ul>	

**Note:**  
 High density insulation allows the fixture to be clamped back to the substrate without depressing the render  
 Where insulation abuts the proprietary bracket, HD insulation block it should be installed tight up with all gaps filled to the full depth of insulation




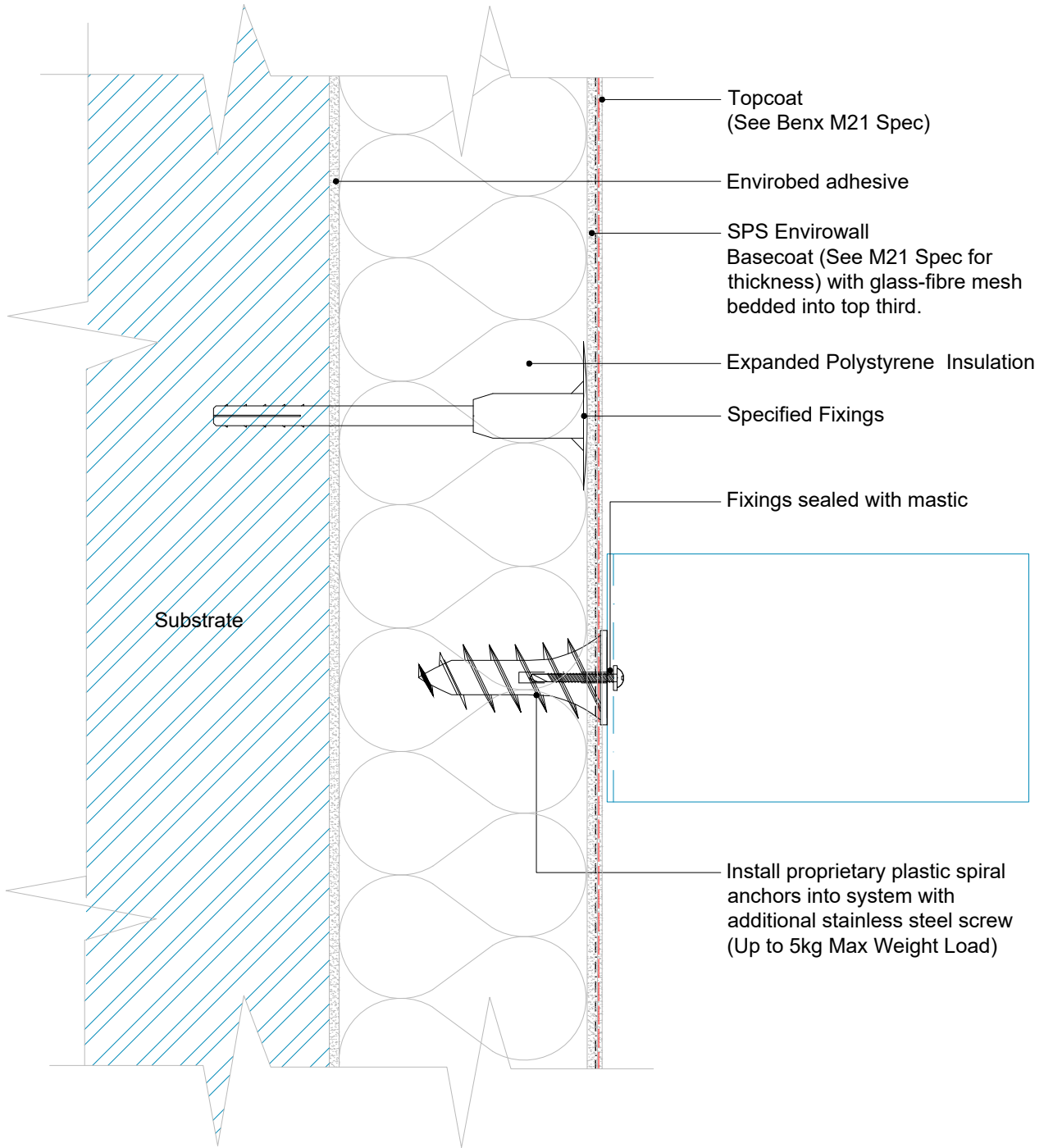
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 Lonsdale Street,  
 Stoke-on-Trent  
 Staffordshire  
 ST4 4BT  
 Telephone: 0845 130 0983  
 Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)




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A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-028	CHECK: JT
				DESCRIPTION:	HEAVY WEIGHT EXTERNAL FIXTURE Opt 2	NTS@A4
						DATE: Feb 23
						REV: A

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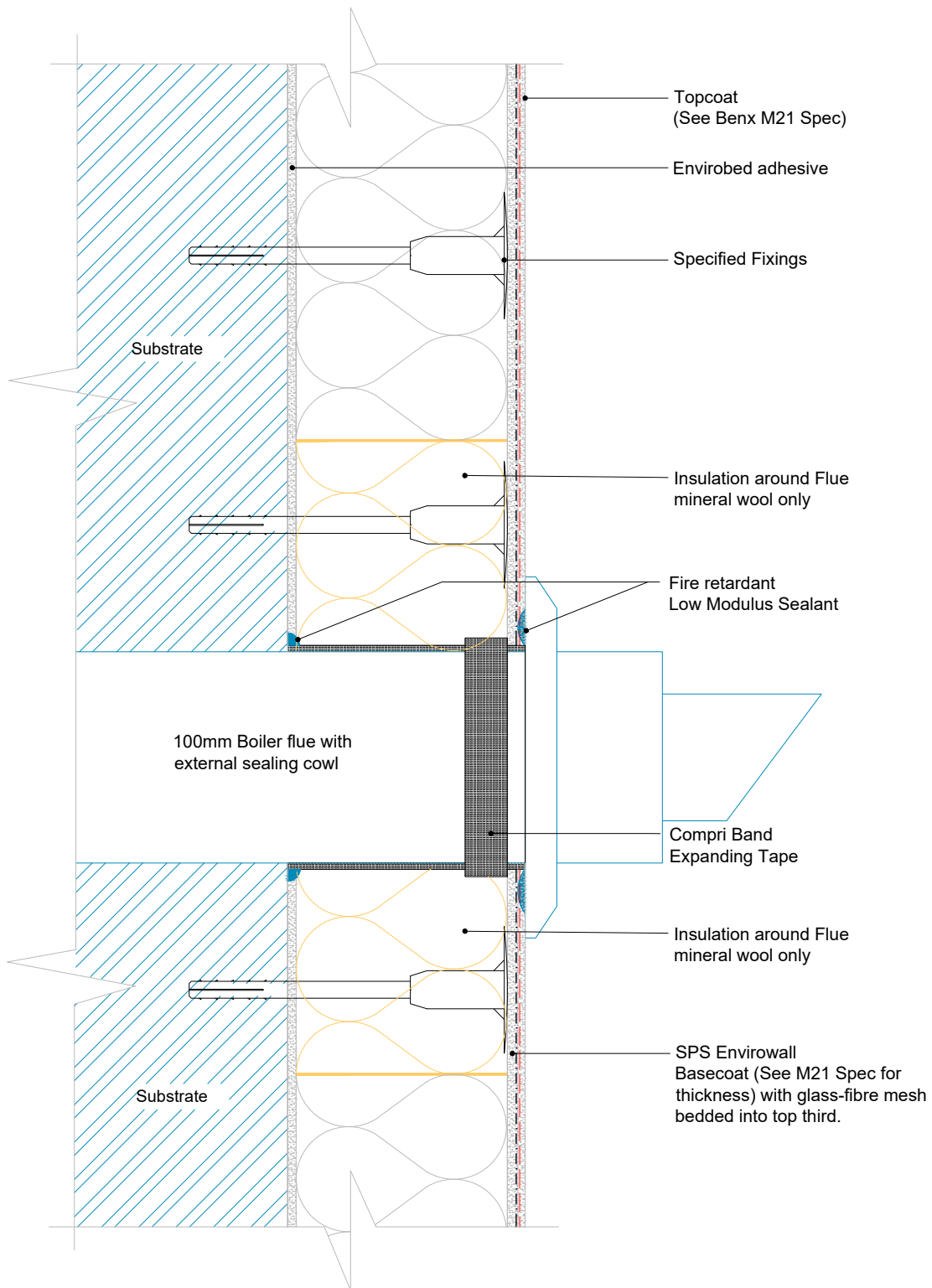


THERMAL BRIDGING RISK LEVEL	WEATHERING RISK		 Refer To PAS Key
<b>Note :</b> <ul style="list-style-type: none"> <li>All details indicate fixings that are thermally broken.</li> <li>Green, No effect on risk level</li> </ul>	<b>Risks:</b> <ul style="list-style-type: none"> <li>Water ingress into insulation at fixings.</li> </ul>	<b>Solutions:</b> <ul style="list-style-type: none"> <li>Ensure fixings are sealed against render with EPDM gaskets or proprietary waterproof sealant.</li> </ul>	



 <p>the future of façades</p>  	Benx Ltd, Lonsdale Chambers, Lonsdale Street, Stoke-on-Trent Staffordshire ST4 4BT Telephone: 0845 130 0983 Email: <a href="mailto:technicalservices@benx.co.uk">technicalservices@benx.co.uk</a>	REV DATE NOTE A 02/23 First Issue	BY STATUS: INFORMATION HM PROJECT: PAS 2035 ISO No:	DRAWN: HM
			DRAWING No: TD-WS2-PAS-M-EPS-R-030	CHECK: JT
			DESCRIPTION: LIGHT WEIGHT EXTERNAL FIXTURE	NTS@A4
				DATE: Feb 23 REV: A

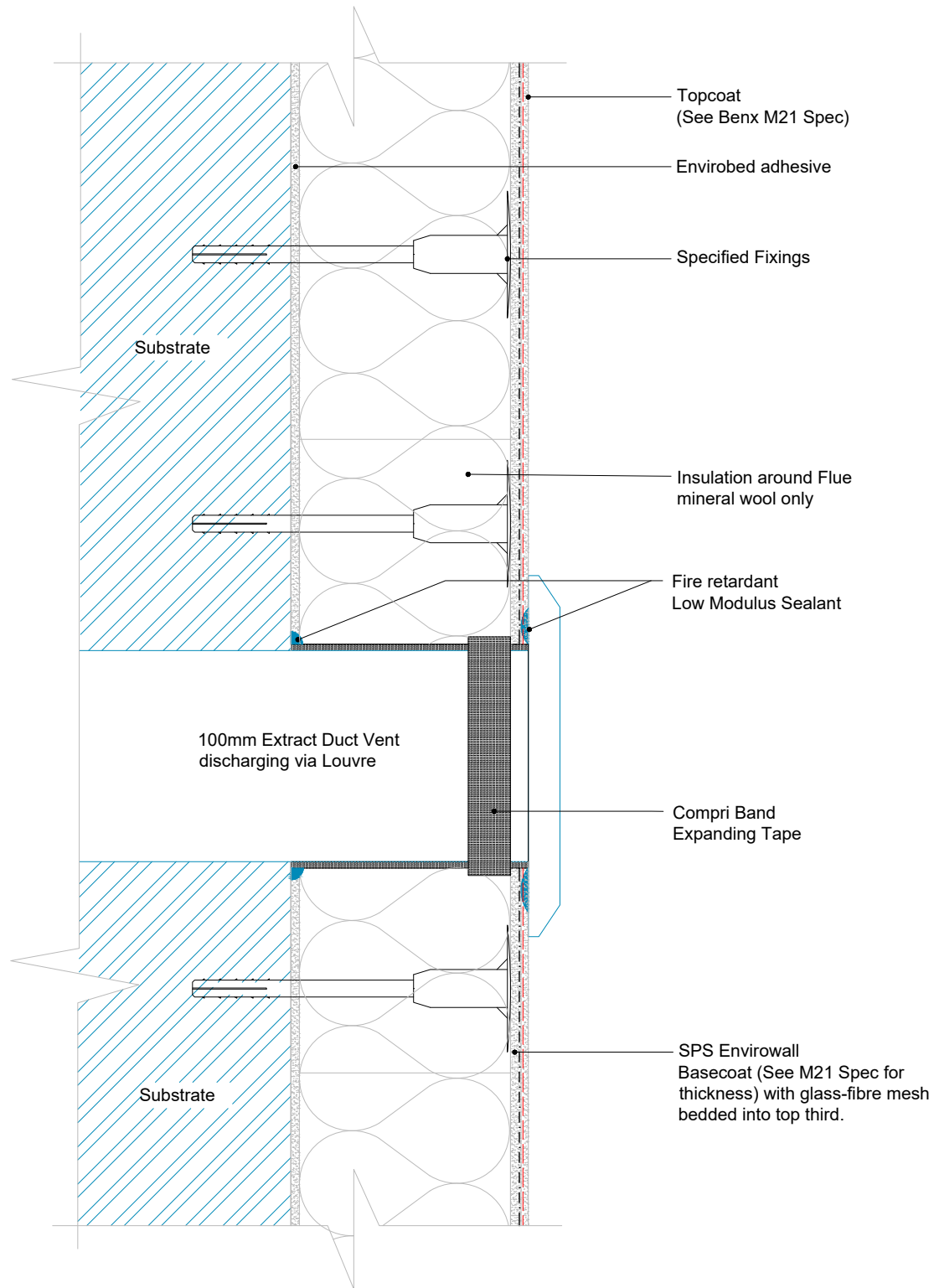
All performance data & systems specifications are for systems constructed with materials & components as shown. The inclusion or substitution of any other manufactures materials or components invalidates both test data, system performance and compliance with CDM 2015. The information is provided and based upon details received, which are assumed to include all the relevant facts and data. While it is believed to be correct, we accept no liability for its accuracy, adequacy or completeness. Recipients must satisfy themselves as to its suitability as we do not accept responsibility for any claims or consequential loss. Acceptance of the content and subsequent design responsibility rests entirely with the recipients. Any subsequent design changes that affect the detail which we are not informed of in a written format will void this detail. None of the content may be copied without the prior approval from the Benx Group Technical Services Department. This statement should be read in conjunction with the standard terms and conditions of Benx Group.



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Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

REV	DATE	NOTE	BY	STATUS:	INFORMATION	DRAWN:
A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-031	CHECK: JT
				DESCRIPTION:	BALANCED FLUE DETAIL	NTS@A4
						DATE: Jan 23
						REV: A

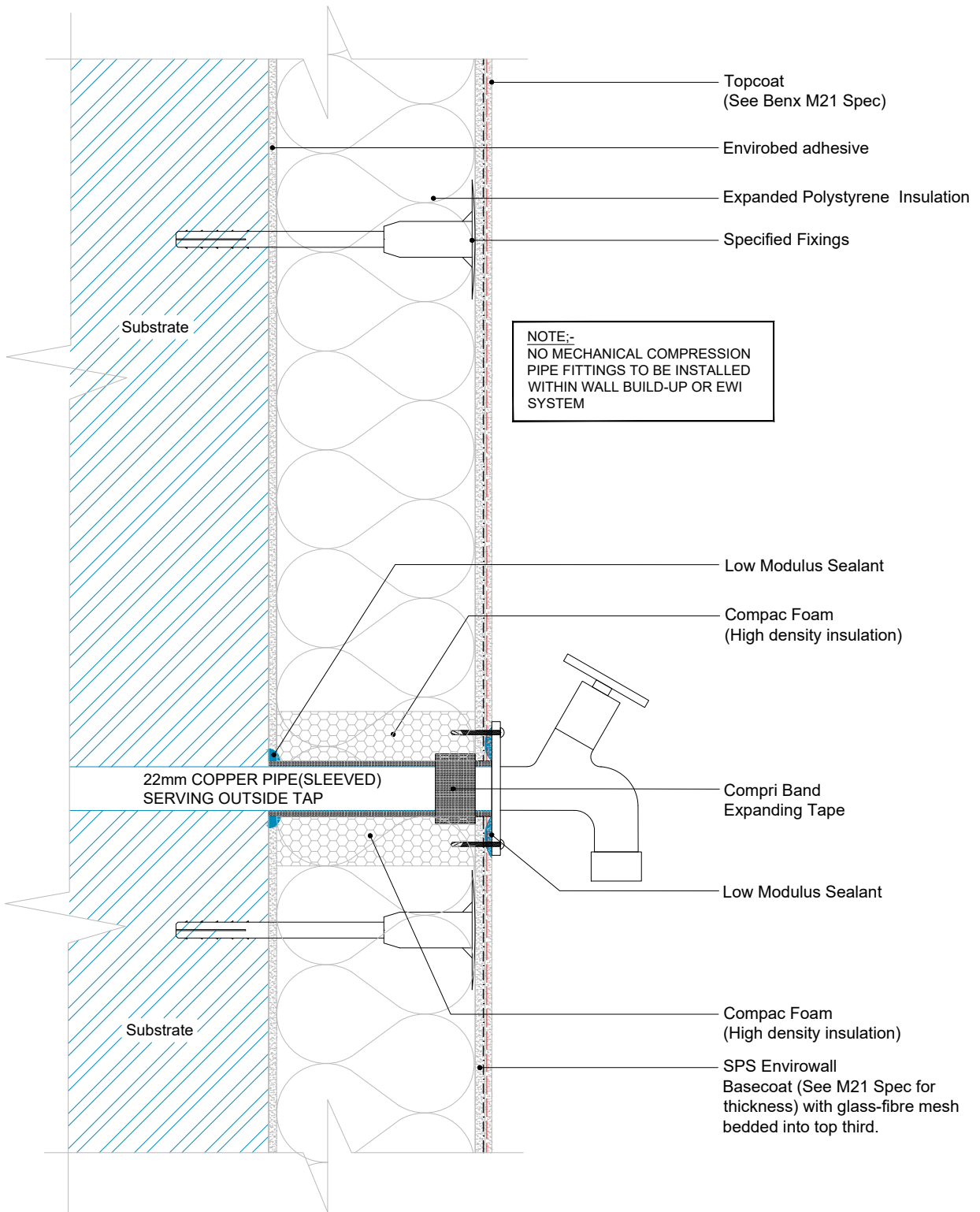
All performance data & systems specifications are for systems constructed with materials & components as shown. The inclusion or substitution of any other manufactures materials or components invalidates both test data, system performance and compliance with CDM 2015. The information is provided and based upon details received, which are assumed to include all the relevant facts and data. While it is believed to be correct, we accept no liability for its accuracy, adequacy or completeness. Recipients must satisfy themselves as to its suitability as we do not accept responsibility for any claims or consequential loss. Acceptance of the content and subsequent design responsibility rests entirely with the recipients. Any subsequent design changes that affect the detail which we are not informed of in a written format will void this detail. None of the content may be copied without the prior approval from the Benx Group Technical Services Department. This statement should be read in conjunction with the standard terms and conditions of Benx Group.



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Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
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REV	DATE	NOTE	BY	STATUS:	INFORMATION	DRAWN:
A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-032	CHECK: JT
				DESCRIPTION: DUCTED MECHANICAL VENTILATION LOUVRE DETAIL		NTS@A4
						DATE: Jan 23
						REV: A

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Substrate

Substrate

22mm COPPER PIPE (SLEEVED)  
SERVING OUTSIDE TAP

Topcoat  
(See Benx M21 Spec)

Envirobed adhesive

Expanded Polystyrene Insulation

Specified Fixings

NOTE:-  
NO MECHANICAL COMPRESSION  
PIPE FITTINGS TO BE INSTALLED  
WITHIN WALL BUILD-UP OR EWI  
SYSTEM

Low Modulus Sealant

Compac Foam  
(High density insulation)

Compri Band  
Expanding Tape

Low Modulus Sealant

Compac Foam  
(High density insulation)

SPS Envirowall  
Basecoat (See M21 Spec for  
thickness) with glass-fibre mesh  
bedded into top third.



Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

REV	DATE	NOTE	BY	STATUS:	INFORMATION	DRAWN:
A	02/23	First Issue	HM	PROJECT: PAS 2035	ISO No:	HM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-033	CHECK: JT
				DESCRIPTION:	EXTERNAL TAP DETAIL	NTS@A4
						DATE: Feb 23
						REV: A

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NCHA  
NOTTINGHAM  
PROJECT



Refer To PAS Key

**THERMAL BRIDGING RISK LEVEL**

**WEATHERING RISK**

**Note :**

- No effect on risk level
- Insulation should have a thermal resistance of not less than 0.6 m2K/W. Common practice is to over sail the main insulation board past the reveal by 20 mm and adhesively fix the reveal insulation within the remaining recess.

**Risks:**

- Water penetration into EWI system or building at window reveal.

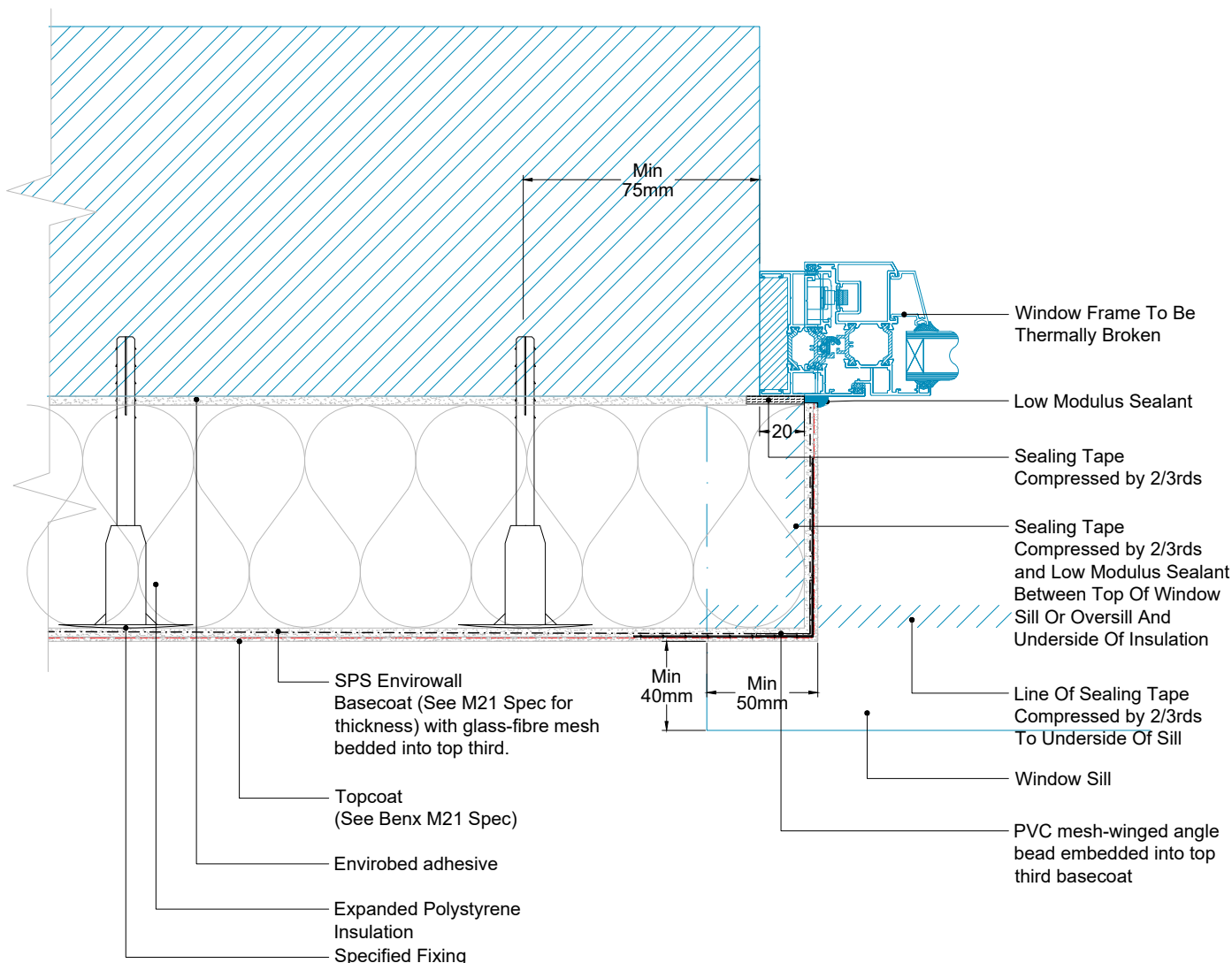
**Solutions:**

- Windows frame sealed against structural opening and weathertight prior to installation of the EWI system.
- EWI system sealed against window frame at jamb using proprietary window sealing strip/reveals bead.
- EWI sealed against window sill/oversill with fully compressed hydrophobic sealing tape and Low Modulus Sealant.
- Designers should consider the use of sills with greater projection where exposure is Zone 4/very severe (BR262).

Note:

All details indicate fixings that are thermally broken.

Proprietary window sealing strip/reveal bead. If sealant beads are used, insulation must be seal at the window frame with a compressible sealing tape fitted flush with the face of the insulation. Double seals must be provided to provide additional capacity e.g. hydrophobic sealing tape with Low Modulus Sealant over.



Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

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A	02/23	First Issue	HM	PROJECT:	ISO No:	HM
				NCHA NOTTINGHAM		CHECK:
				DRAWING No: TD-WS2-PAS-M-EPS-R-034		JT
				DESCRIPTION:		NTS@A4
				INSULATED FLUSH WINDOW REVEAL - 20mm OVERSAIL		DATE:
						Feb 23
						REV:
						A

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**THERMAL BRIDGING RISK LEVEL**

**Note :**

- All details indicate fixings that are thermally broken.
- Detail can only be adopted where ground conditions allow. If the ground is a hard surface, pathway or if existing drainage will be disturbed the detail can be difficult to achieve and not practicably possible.

**WEATHERING RISK**


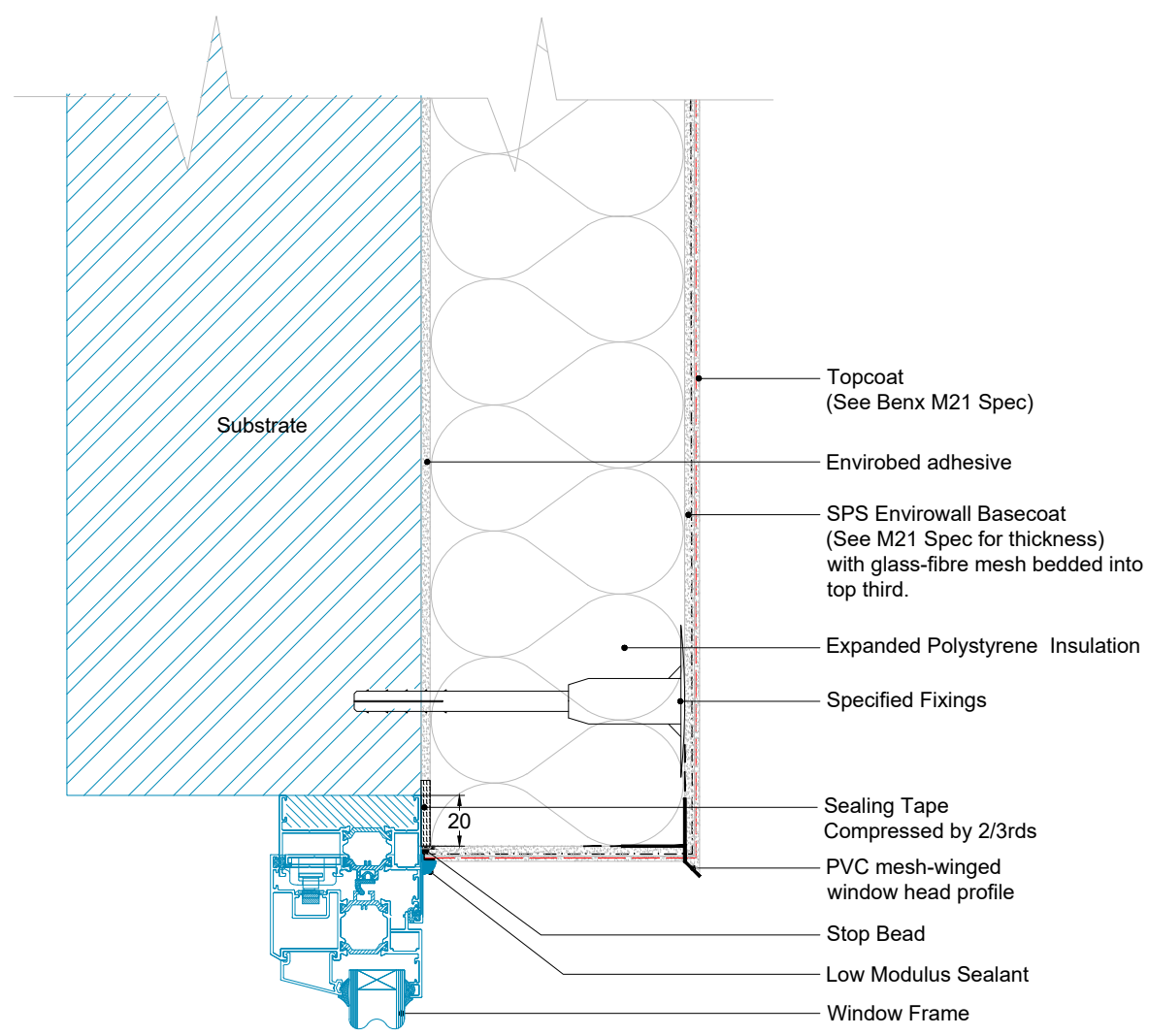
**Risks:**

- Inadequate free drainage of water from the bottom of the render prevents render surface from drying.

**Solutions:**

- Maintain a clear gap between the bottom edge of the render and the surface below. Bottom of the system protected by a plastic (low thermal conductivity) or metal starter track/base track.

Refer To PAS Key


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Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

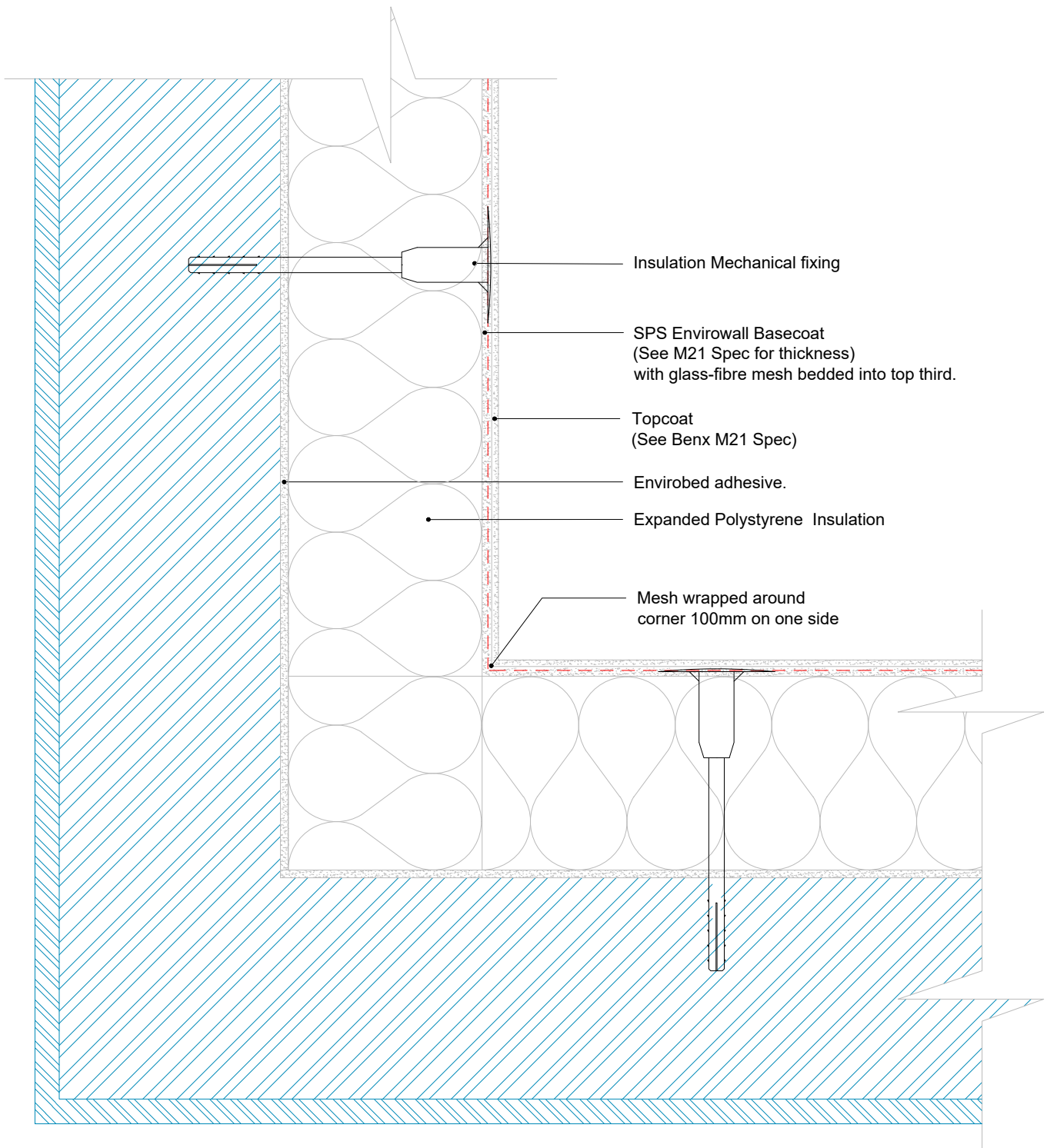
REV	DATE	NOTE	BY
A	02/23	First Issue	HM

STATUS:	DRAWN: HM
PROJECT: NCHA NOTTINGHAM	CHECK: JT
DRAWING No: TD-WS2-PAS-M-EPS-R-035	NTS@A4
DESCRIPTION: WINDOW HEAD DETAIL	DATE: Feb 23
	REV: A

DRAWN: HM  
CHECK: JT  
NTS@A4  
DATE: Feb 23  
REV: A

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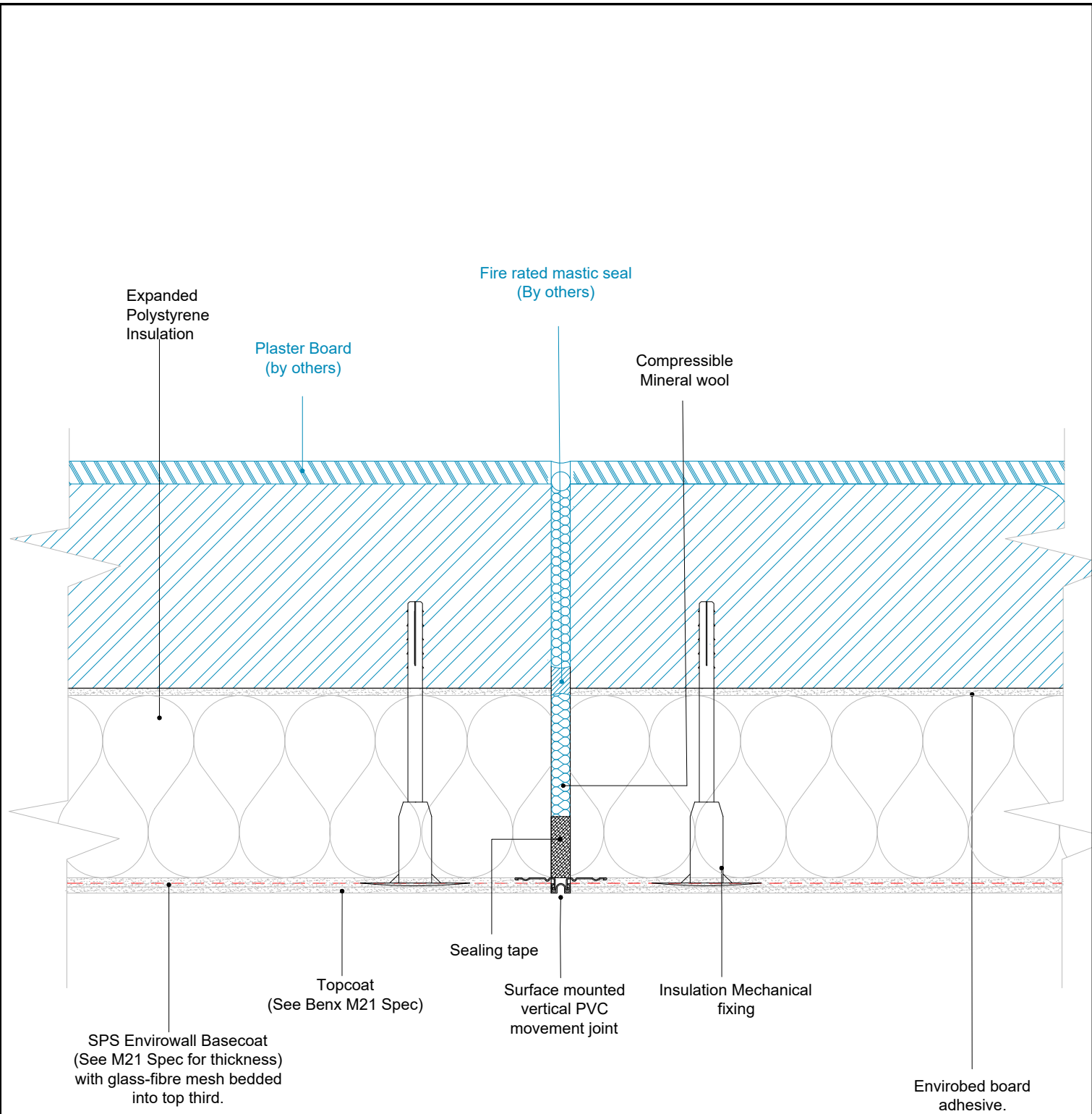




Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

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A	02/23	First Issue	HM	PROJECT:	NCHA NOTTINGHAM	HM
				ISO No:		CHECK:
				DRAWING No:	TD-WS2-PAS-M-EPS-R-036	JT
				DESCRIPTION:	INTERNAL CORNER DETAIL	NTS@A4
						DATE:
						Feb 23
						REV:
						A

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Expanded Polystyrene Insulation

Plaster Board (by others)

Fire rated mastic seal (By others)

Compressible Mineral wool

Sealing tape




Surface mounted vertical PVC movement joint

Insulation Mechanical fixing

Envirobed board adhesive.

SPS Envirowall Basecoat (See M21 Spec for thickness) with glass-fibre mesh bedded into top third.

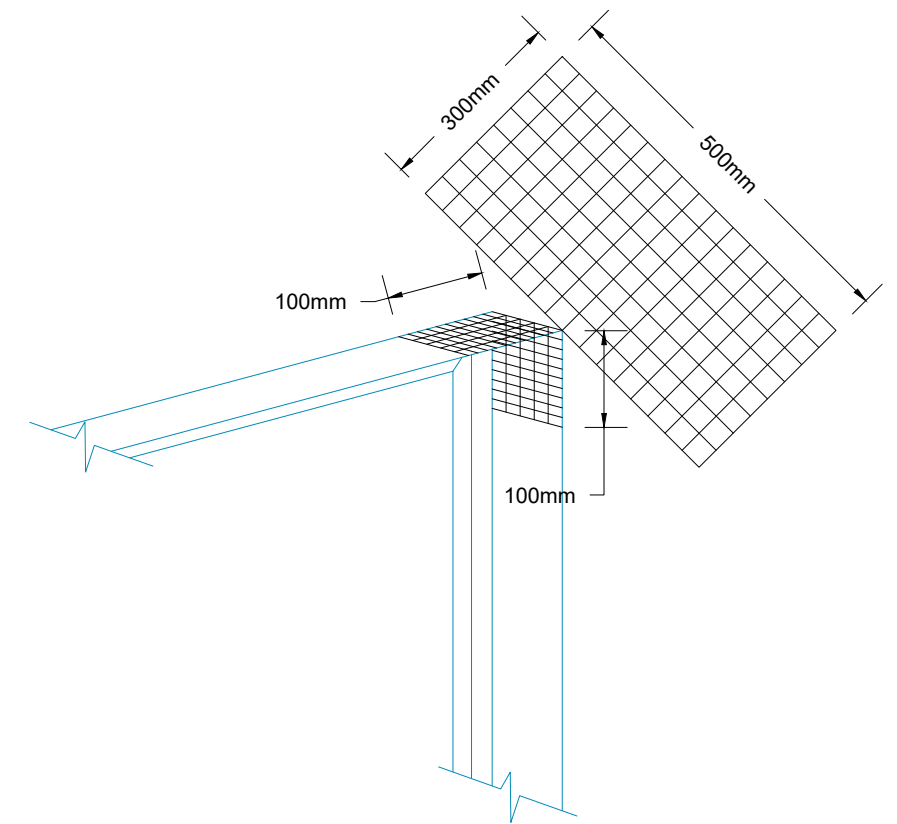
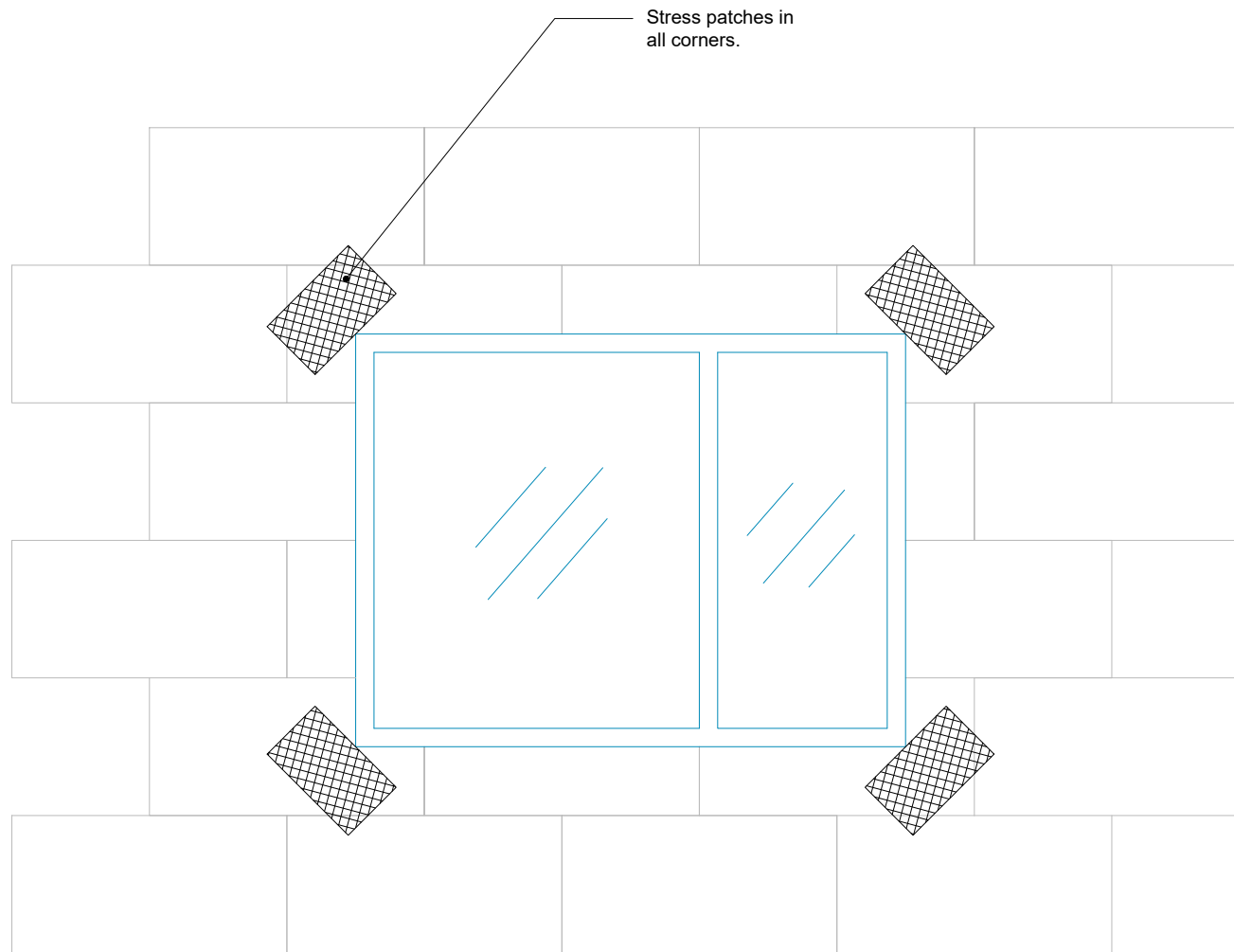
Topcoat (See Benx M21 Spec)

 <p>the future of façades</p>  	Benx Ltd, Lonsdale Chambers, Lonsdale Street, Stoke-on-Trent Staffordshire ST4 4BT Telephone: 0845 130 0983 Email: <a href="mailto:technicalservices@benx.co.uk">technicalservices@benx.co.uk</a>			REV A	DATE 02/23	NOTE First Issue	BY HM	STATUS: INFORMATION	PROJECT: NCHA NOTTINGHAM	ISO No:	DRAWN: HM	
								DESCRIPTION: MOVEMENT JOINT DETAIL	DRAWING No: TD-WS2-PAS-M-EPS-R-037	DATE: Feb 23	CHECK: JT	
								REV: A	NTS@A4			
											DATE: Feb 23	REV: A

All performance data & systems specifications are for systems constructed with materials & components as shown. The inclusion or substitution of any other manufactures materials or components invalidates both test data, system performance and compliance with CDM 2015. The information is provided and based upon details received, which are assumed to include all the relevant facts and data. While it is believed to be correct, we accept no liability for its accuracy, adequacy or completeness. Recipients must satisfy themselves as to its suitability as we do not accept responsibility for any claims or consequential loss. Acceptance of the content and subsequent design responsibility rests entirely with the recipients. Any subsequent design changes that affect the detail which we are not informed of in a written format will void this detail. None of the content may be copied without the prior approval from the Benx Group Technical Services Department. This statement should be read in conjunction with the standard terms and conditions of Benx Group.

Note:

1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
2. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
3. Movement joint within the system and structure please refer to guidance note within M21 specification.



Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

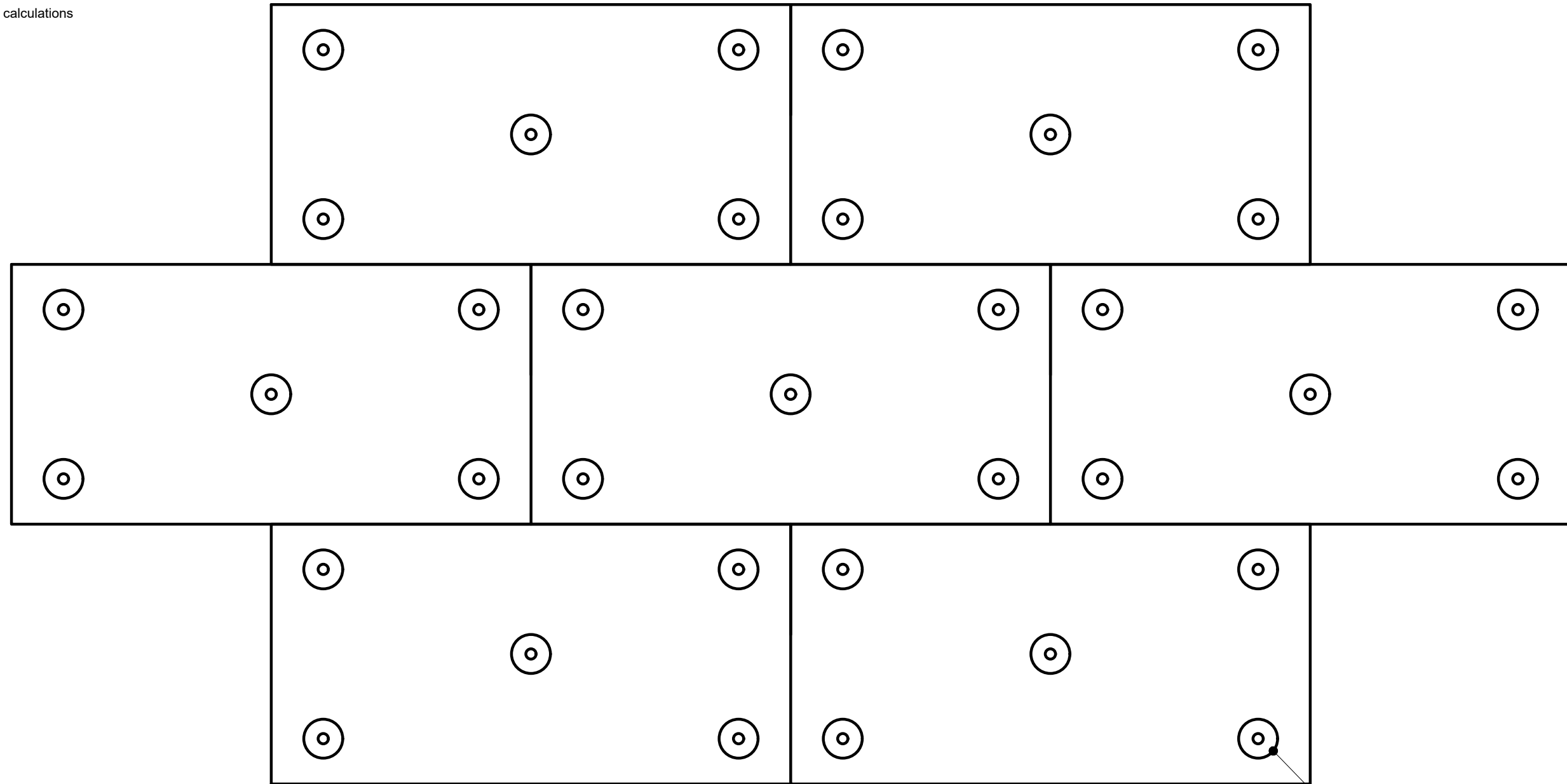
All performance data & systems specifications are for systems constructed with materials & components as shown. The inclusion or substitution of any other manufactures materials or components invalidates both test data, system performance and compliance with CDM 2015. The information is provided and based upon details received, which are assumed to include all the relevant facts and data. While it is believed to be correct, we accept no liability for its accuracy, adequacy or completeness. Recipients must satisfy themselves as to its suitability as we do not accept responsibility for any claims or consequential loss. Acceptance of the content and subsequent design responsibility rests entirely with the recipients. Any subsequent design changes that affect the detail which we are not informed of in a written format will void this detail. None of the content may be copied without the prior approval from the Benx Group Technical Services Department. This statement should be read in conjunction with the standard terms and conditions of Benx Group.

REV	DATE	NOTE	BY	STATUS:	INFORMATION
A	02/23	First Issue	HM	PROJECT:	NCHA NOTTINGHAM
				DRAWING No:	TD-WS2-PAS-M-EPS-R-040
				DESCRIPTION:	STRESS PATCH DETAIL

DRAWN: HM  
CHECK: JT  
NTS@A3  
DATE: Feb 23  
REV: A

Note:

1. This drawing must be read in-conjunction with project specific NBS M21 specification
2. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification
3. Please refer to wind loading calculations on contract.



BBA CERTIFIED FIXING PATTERN

FIXING PATTERN  
DOMINO FIVE 7m<sup>2</sup>

REV	DATE	NOTE	BY	STATUS:	INFORMATION	DRAWN:
A	02/23	First Issue	HM	PROJECT:	NCHA NOTTINGHAM	HM
				ISO No:		CHECK:
				DRAWING No:	TD-WS2-PAS-M-EPS-R-041	JT
				DESCRIPTION:	BBA fixing pattern detail	NTS@A3
						DATE:
						Feb 23
						REV:
						A



**Benx Ltd, Lonsdale Chambers, Lonsdale Street,  
 Stoke-on-Trent  
 Staffordshire  
 ST4 4BT  
 Telephone: 0845 130 0983  
 Email: [technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)**

**DRAWING REGISTER**

<b>PROJECT:</b> NCHA Wave 1 - PAS2035		<b>ISSUE STATUS</b>	I																		
			<b>REVISION</b>	A																	
<b>ISO Ref:</b> 5225	<b>System:</b> WS2-TD-PAS2035	<b>DATE</b>	9/3/23																		
<b>DRAWING No.</b>	<b>DRAWING ID/Description</b>																				
TD-WS2-PAS-M-EPS-R.000	3D Model Example			A																	
TD-WS2-PAS-M-EPS-R.001	PAS2035 Traffic Lights Key			A																	
TD-WS2-PAS-M-EPS-R.002	Insulation Plinth Detail			A																	
TD-WS2-PAS-M-EPS-R.007	Window sill (Extention)			A																	
TD-WS2-PAS-M-EPS-R.008	Oversill External Corner			A																	
TD-WS2-PAS-M-EPS-R.010	Oversill External Corner			A																	
TD-WS2-PAS-M-EPS-R.012	Insulation to Recessed Window Head			A																	
TD-WS2-PAS-M-EPS-R.016	Extended Overhanging Eaves			A																	
TD-WS2-PAS-M-EPS-R.017	Extended Overhanging Verge			A																	
TD-WS2-PAS-M-EPS-R.020	Soffit Detail			A																	
TD-WS2-PAS-M-EPS-R.021	Full System Stop Bead			A																	
TD-WS2-PAS-M-EPS-R.024	Service Box - Front Access			A																	
TD-WS2-PAS-M-EPS-R.025	Pipe / Electrical Cables			A																	
TD-WS2-PAS-M-EPS-R.026	Gas Pipe / Electrical Cables Cover			A																	
TD-WS2-PAS-M-EPS-R.027	Heavy Weight External Fixture Opt 1			A																	
TD-WS2-PAS-M-EPS-R.028	Heavy Weight External Fixture Opt 2			A																	
TD-WS2-PAS-M-EPS-R.030	Light Weight External Fixture			A																	
TD-WS2-PAS-M-EPS-R.031	Balanced Flue Detail			A																	
TD-WS2-PAS-M-EPS-R.032	Ducted Mechanical Ventilation Louvre Detail			A																	
TD-WS2-PAS-M-EPS-R.033	External Tap Detail			A																	
<b>Additional Details</b>																					
TD-WS2-M-EPS-R.034	Insulated Flush Window Reveal - 20mm oversail			A																	
TD-WS2-M-EPS-R.035	Window Head Detail			A																	
TD-WS2-M-EPS-R.036	Internal Corner Detail			A																	
TD-WS2-M-EPS-R.037	Movement Joint Detail			A																	
TD-WS2-M-EPS-R.040	Stress Patch Detail			A																	
TD-WS2-M-EPS-R.041	BBA Fixing Pattern Detail			A																	
<b>ISSUED TO:</b> Technical managers																					
<b>DATE:</b> 09/03/2023																	<b>SHEET</b>	<b>1</b>	<b>Of</b>	<b>1</b>	