



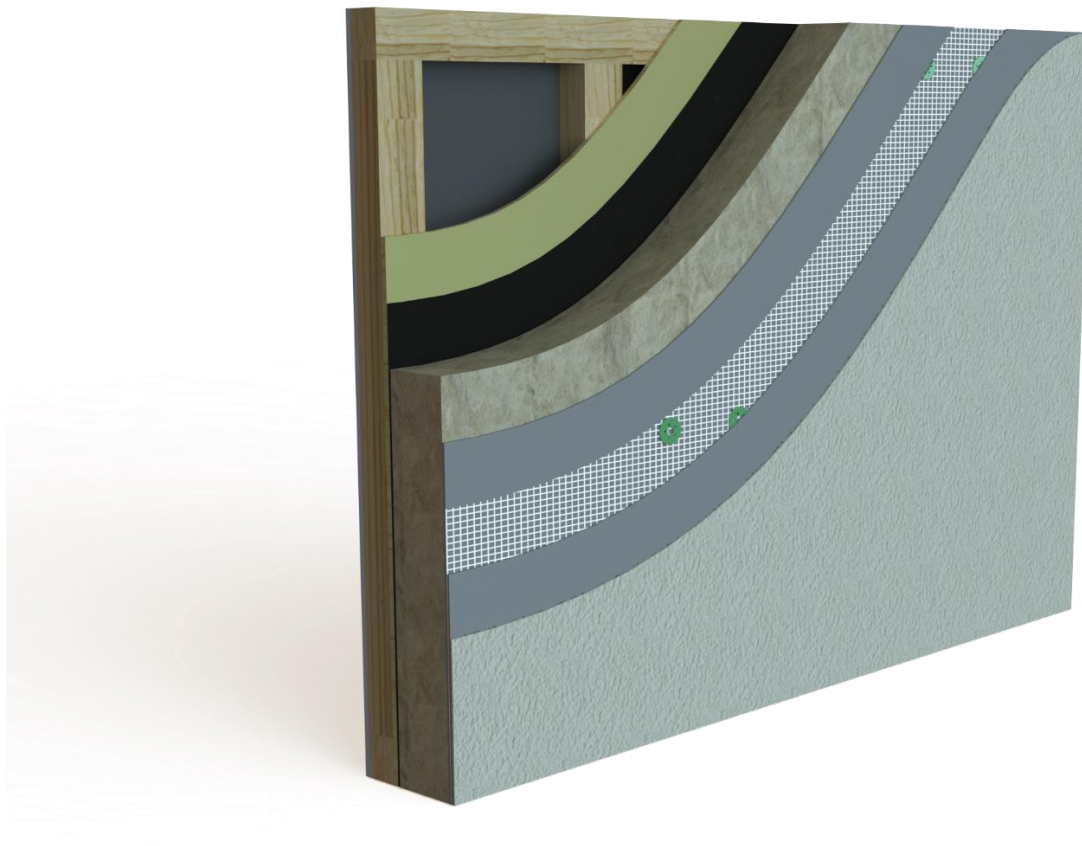
## SPS Envirowall EWI System Typical Details : Direct Fix to Timber/Framed structure



**SPS Envirowall Ltd**  
Lonsdale Chambers  
Lonsdale Street, Stoke-on-Trent  
Staffordshire  
ST4 4BT  
[technical@spsenvirowall.co.uk](mailto:technical@spsenvirowall.co.uk)  
0800 6124662



|                 |                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| System:         | WS1 Direct Fix to Timber Frame                                                                                  |
| Insulation:     | Mineral Wool EWI Slab                                                                                           |
| System Finish:  | Envirosil Silicone Topcoat Finish<br>Enviromin Mineral Topcoat Finish<br>Speedy Slip Flexible Brick Slip Finish |
| Naming Sequence | Typical Details, Direct Fix, Timber Frame, Mineral Wool, Render, 01, etc                                        |
| Drawing Codes   | TD_DF_TF_MW_R_01                                                                                                |
| ISO Reference   | 5201-TF                                                                                                         |



*Typical Image/Section through EWI System onto Timber Frame*

## GENERAL NOTES

This document is intended as a design guidance documentation and to assist the Project design team in producing the respective documentation for any project under consideration or installation. To be read with Relevant M21 Specification and accordance with Benx SPS Envirowall (SPSE) Installation instructions and good practice guidelines.

As manufacturers/suppliers Benx Technical is not privy to detailed contractual arrangements and documentation of individual projects and is therefore not in a position to co-ordinate related work by others. It is not the intention for this draft to relate to any particular project, but to provide a guide to the more common items to encountered in construction assemblies incorporating Benx, SPS, and RCM products.

Finally please ensure that any amendments to Benx Technical draft specifications represent a true interpretation of the project designer's requirements.

[illegible]

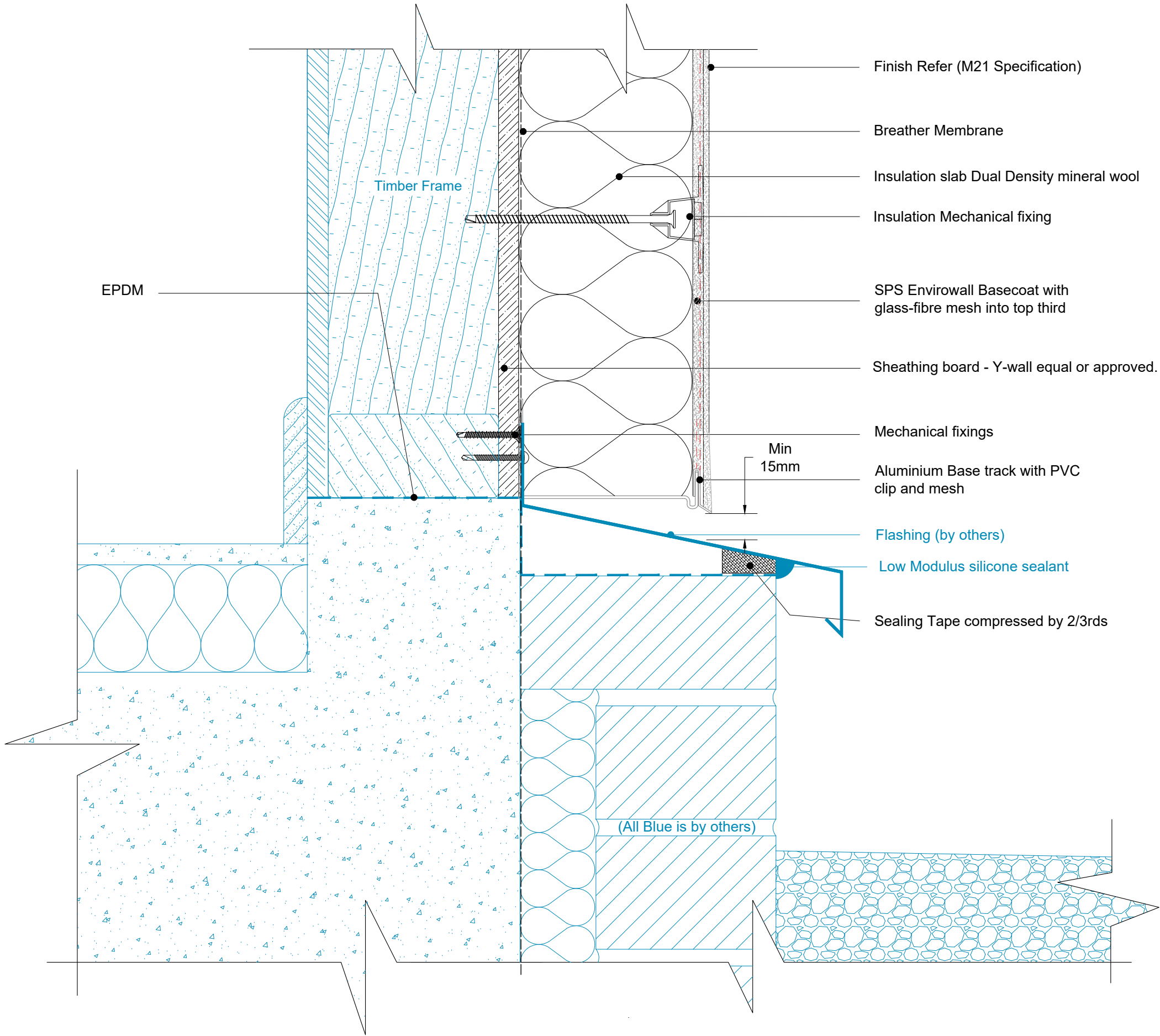
1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject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



| REV | DATE     | NOTE                 | BY | STATUS:         | INFORMATION      | DRAWN:<br>AG |
|-----|----------|----------------------|----|-----------------|------------------|--------------|
| A   | 29/06/23 | First Issue          | AG | PROJECT:        | ISO No: 5201 TF  | CHECK:<br>JT |
| A   | 07/12/23 | Granol therm removed | AG | TYPICAL DETAILS | DIRECT FIX       | NTS @ A3     |
|     |          |                      |    | DRAWING No:     | TD-DF-TF-MW-R-01 | DATE:        |
|     |          |                      |    | DESCRIPTION:    | Insulated Base   | Aug 22       |
|     |          |                      |    |                 |                  | REV:<br>B    |

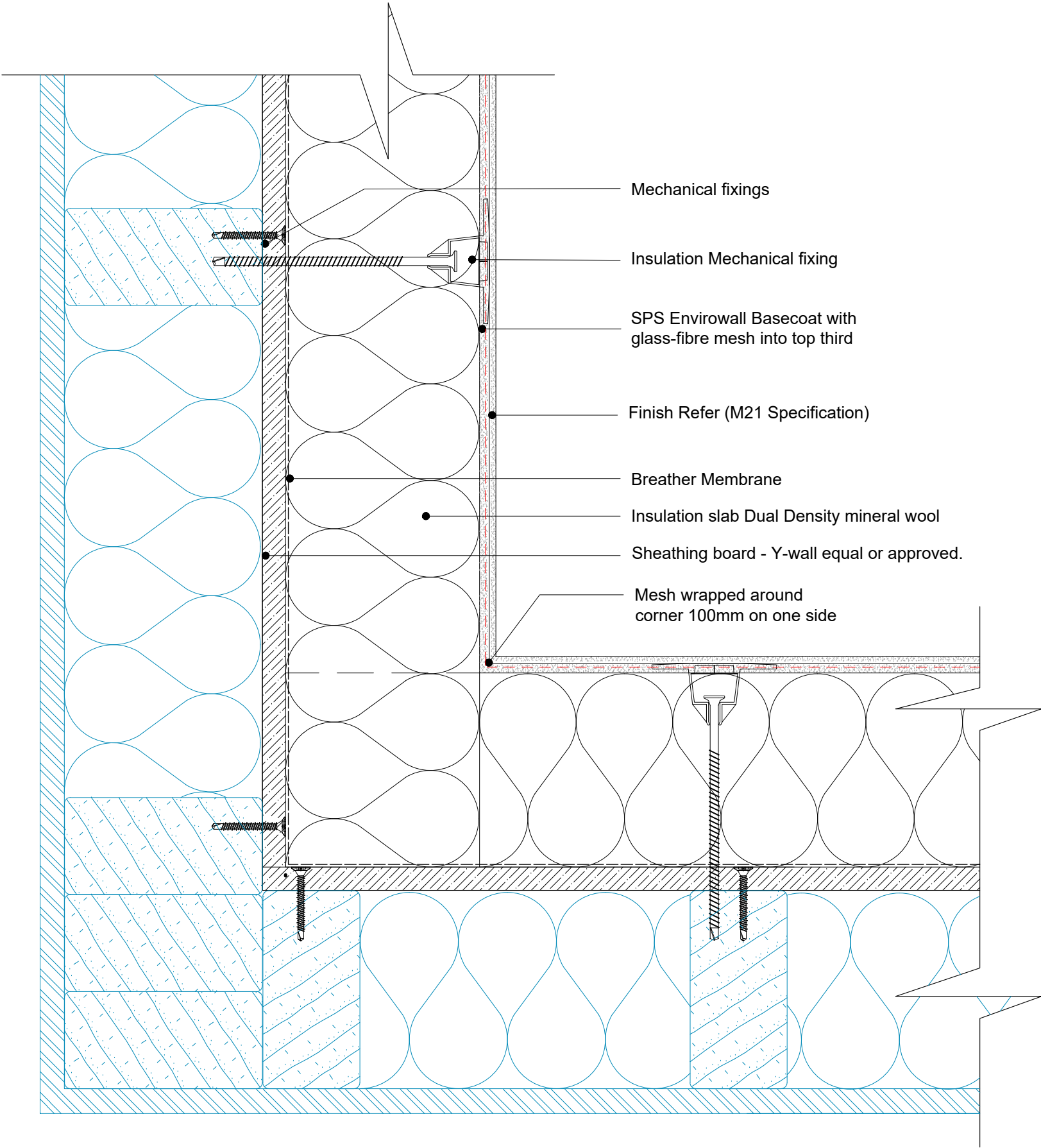
Note:

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.



Note:

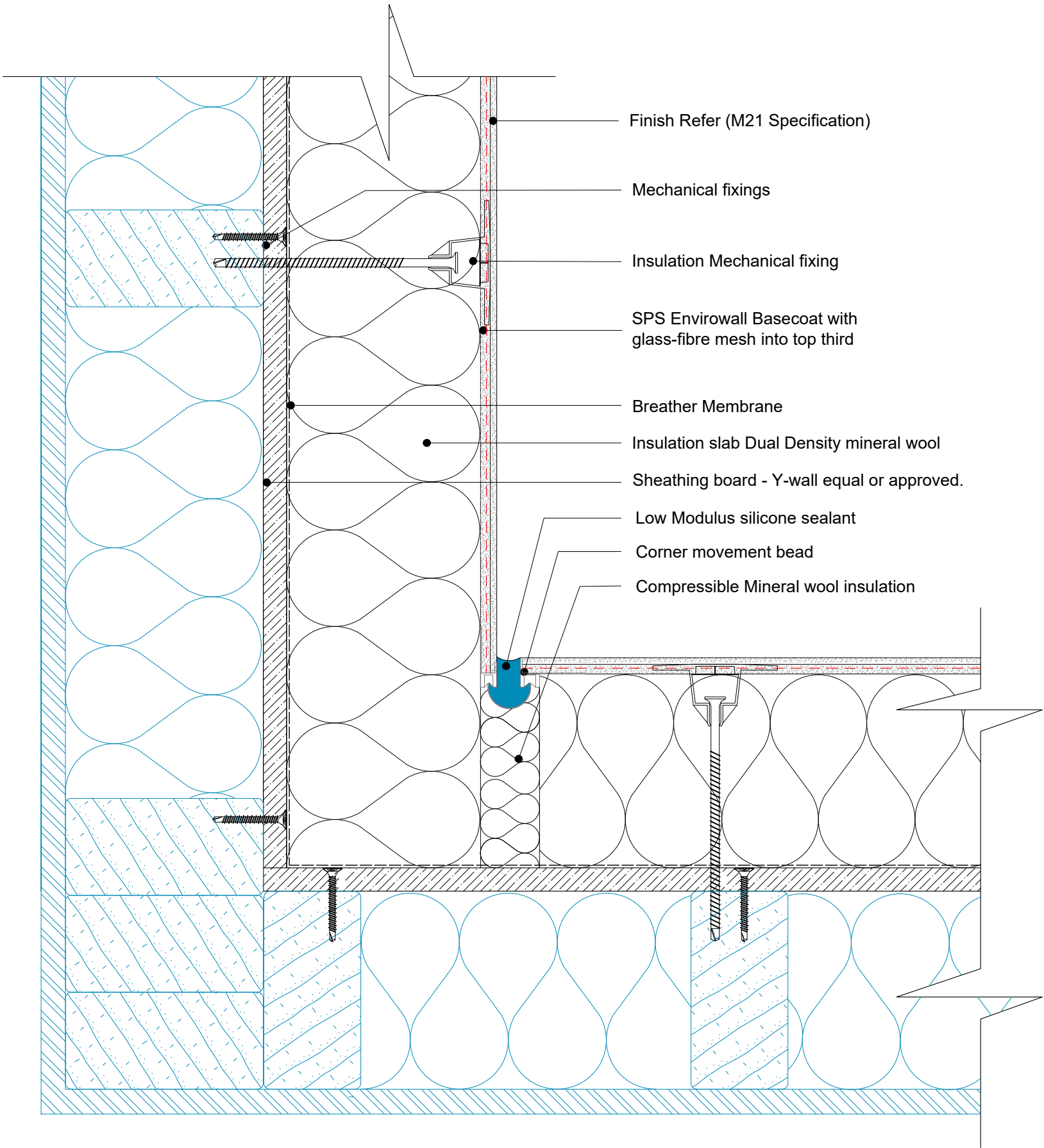
1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject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



| REV | DATE     | NOTE        | BY | STATUS:                      | INFORMATION     | DRAWN: |
|-----|----------|-------------|----|------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                     | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX   |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-03 |                 | JT     |
|     |          |             |    | DESCRIPTION:                 |                 | NTS@A3 |
|     |          |             |    | Internal Corner              |                 | DATE:  |
|     |          |             |    |                              |                 | Aug 22 |
|     |          |             |    |                              |                 | REV:   |
|     |          |             |    |                              |                 | A      |

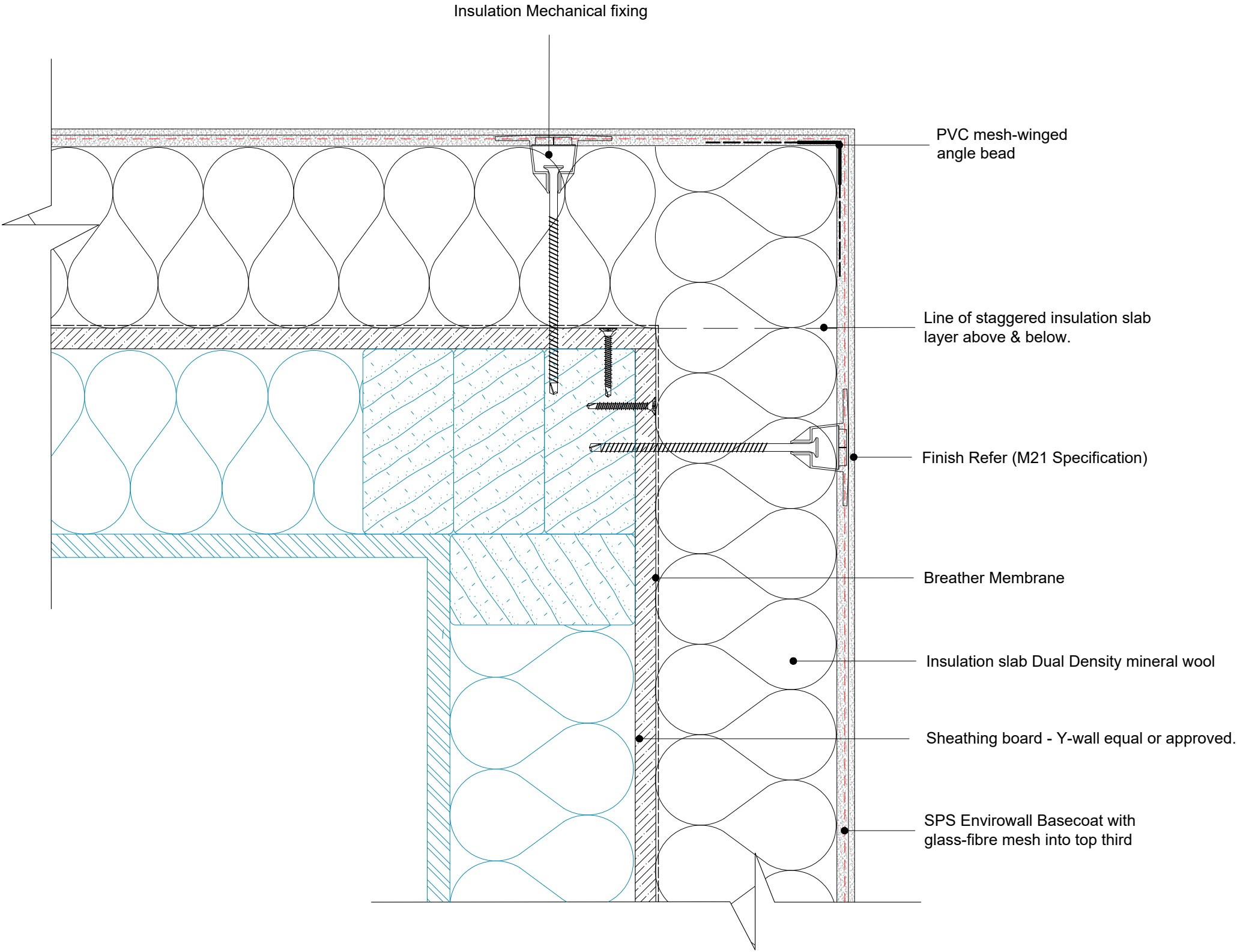
Note:

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.



| REV | DATE     | NOTE                 | BY | STATUS:                                  | INFORMATION     | DRAWN: |
|-----|----------|----------------------|----|------------------------------------------|-----------------|--------|
| A   | 29/06/23 | Issued as draft copy | AG | PROJECT:                                 | ISO No: 5201 TF | AG     |
|     |          |                      |    | TYPICAL DETAILS DIRECT FIX               |                 | CHECK: |
|     |          |                      |    | DRAWING No: TD-DF-TF-MW-R-04             |                 | JT     |
|     |          |                      |    | DESCRIPTION:                             |                 | NTS@A3 |
|     |          |                      |    | Internal Corner with movement joint bead |                 | DATE:  |
|     |          |                      |    |                                          |                 | Aug 22 |
|     |          |                      |    |                                          |                 | REV:   |
|     |          |                      |    |                                          |                 | A      |

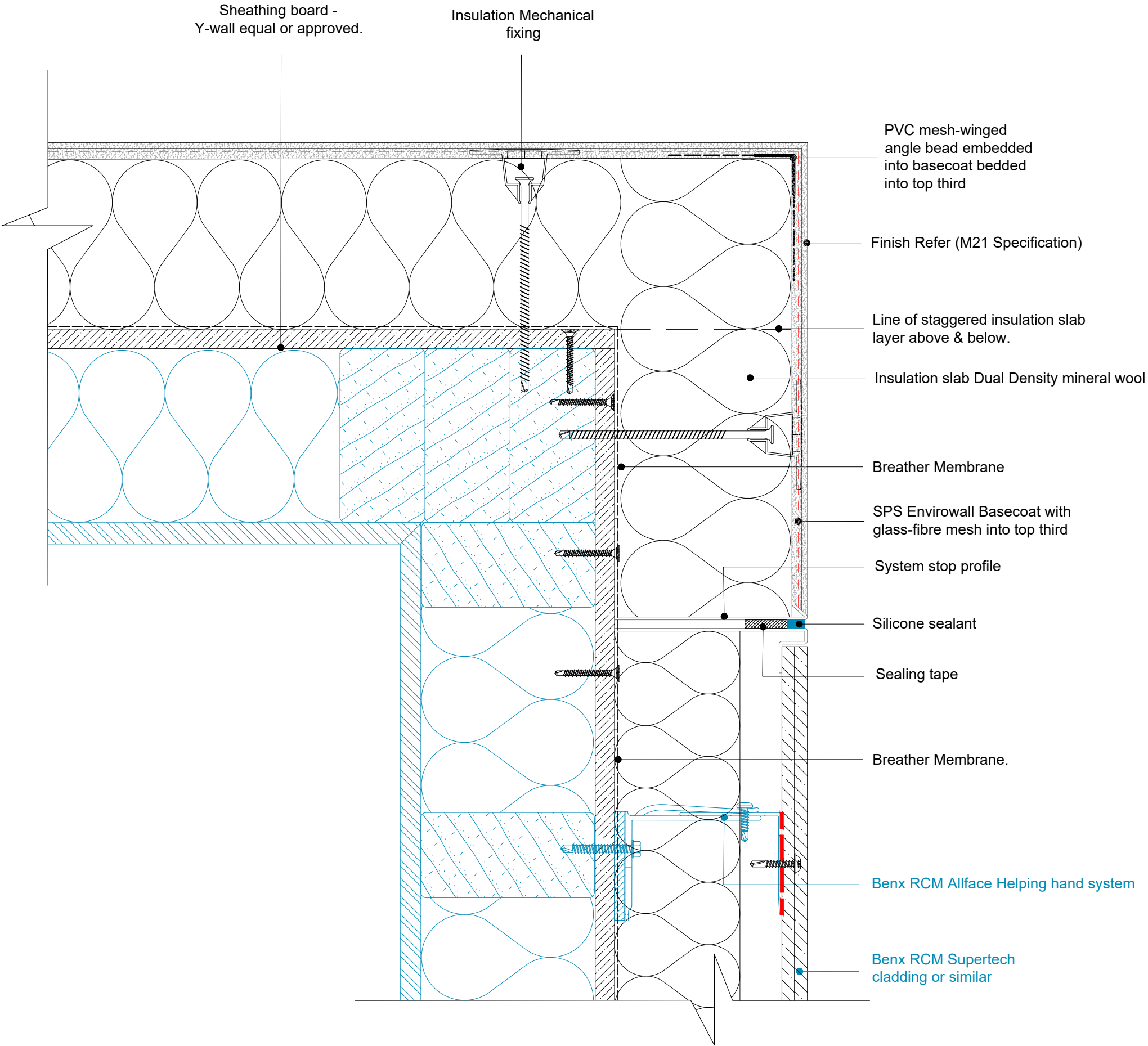
- Note:
- 1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
  - 2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
  - 3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
  - 4. Movement joint within the system and structure please refer to guidance note within M21 specification.



| REV | DATE     | NOTE        | BY | STATUS:                      | INFORMATION     | DRAWN: |
|-----|----------|-------------|----|------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                     | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX   |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-05 |                 | JT     |
|     |          |             |    | DESCRIPTION:                 |                 | NTS@A3 |
|     |          |             |    | External Corner              |                 | DATE:  |
|     |          |             |    |                              |                 | Aug 22 |
|     |          |             |    |                              |                 | REV:   |
|     |          |             |    |                              |                 | A      |

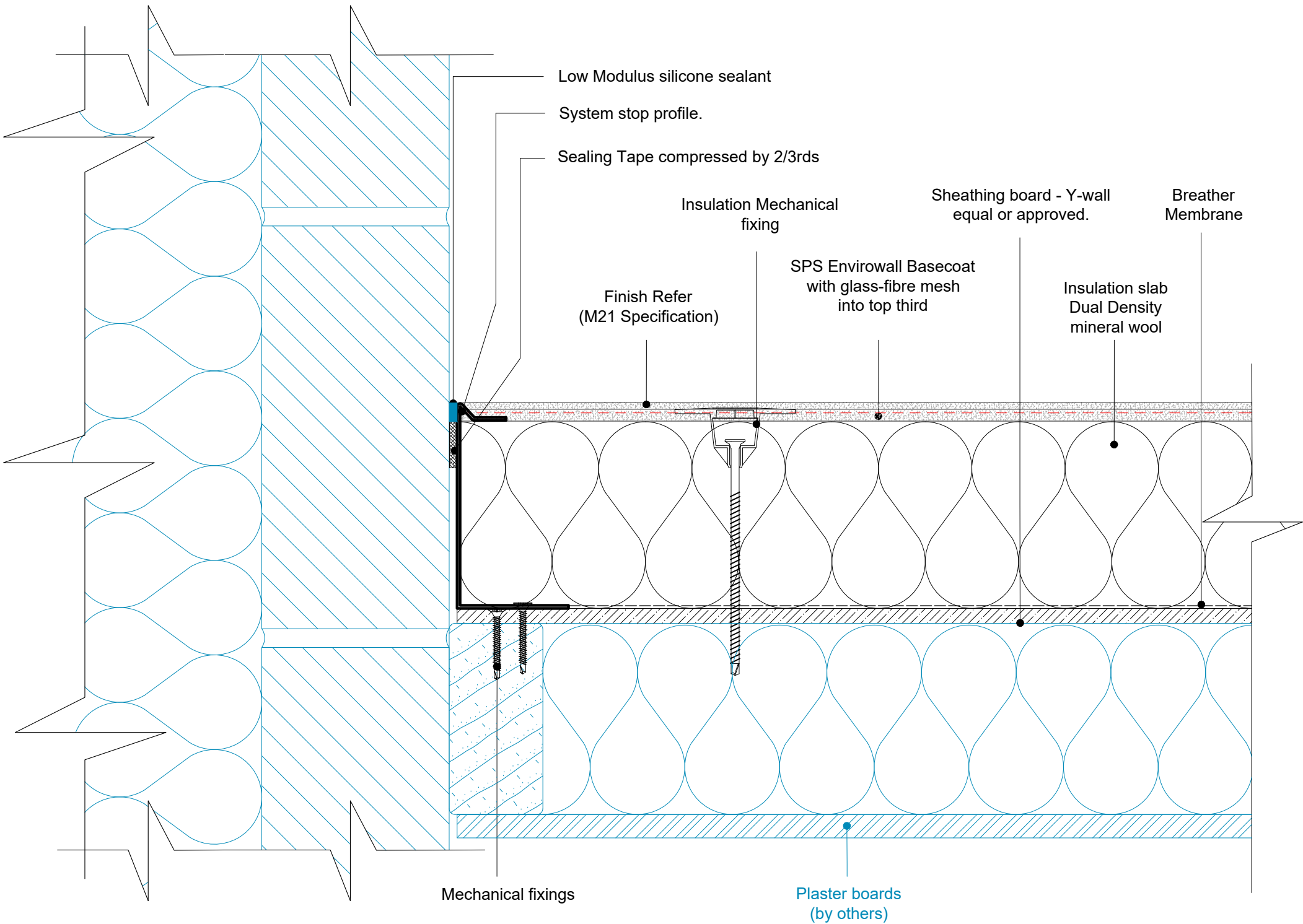
Note:

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.



Note:

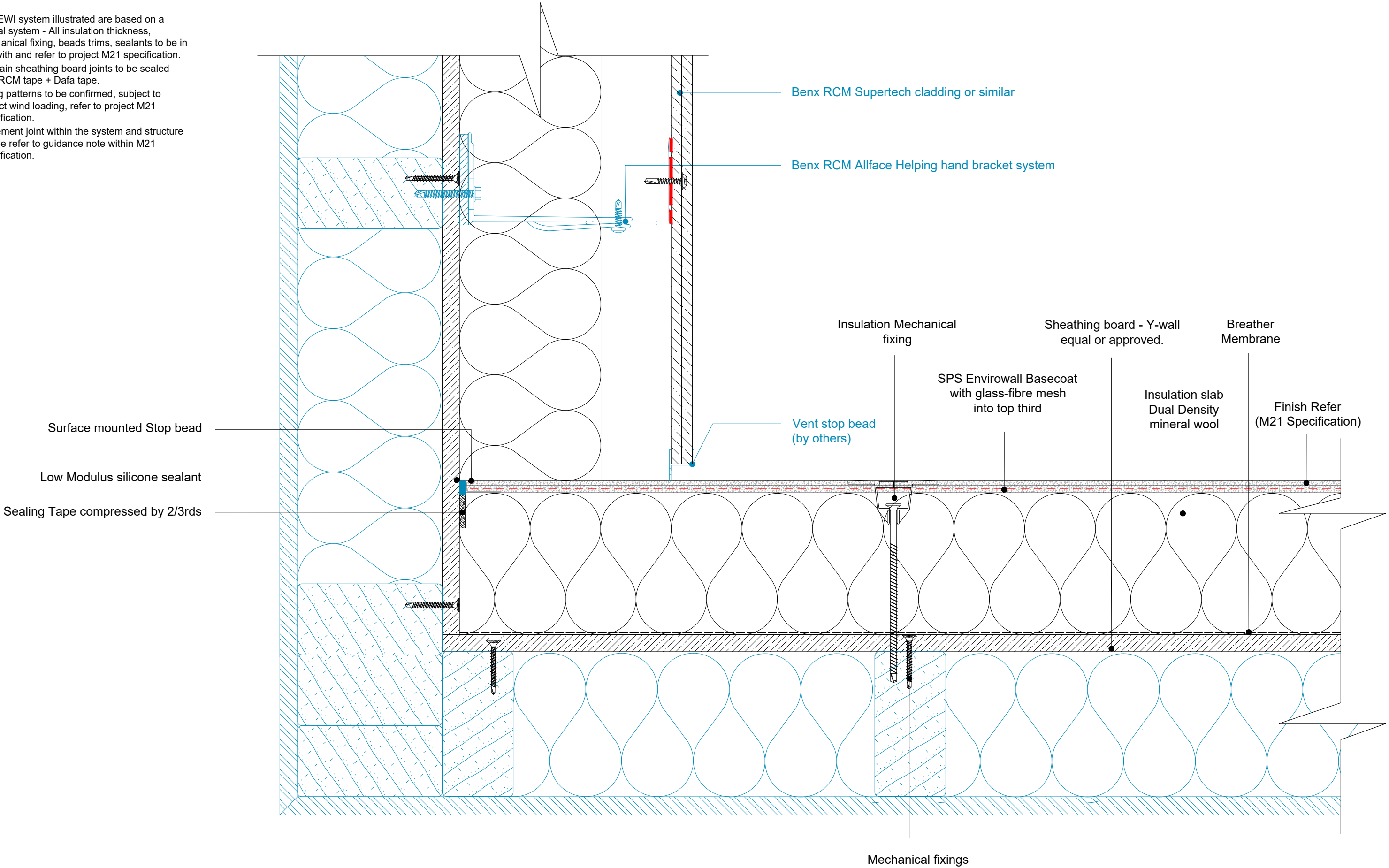
- 1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
- 2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
- 3. Fixing patterns to be confirmed,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



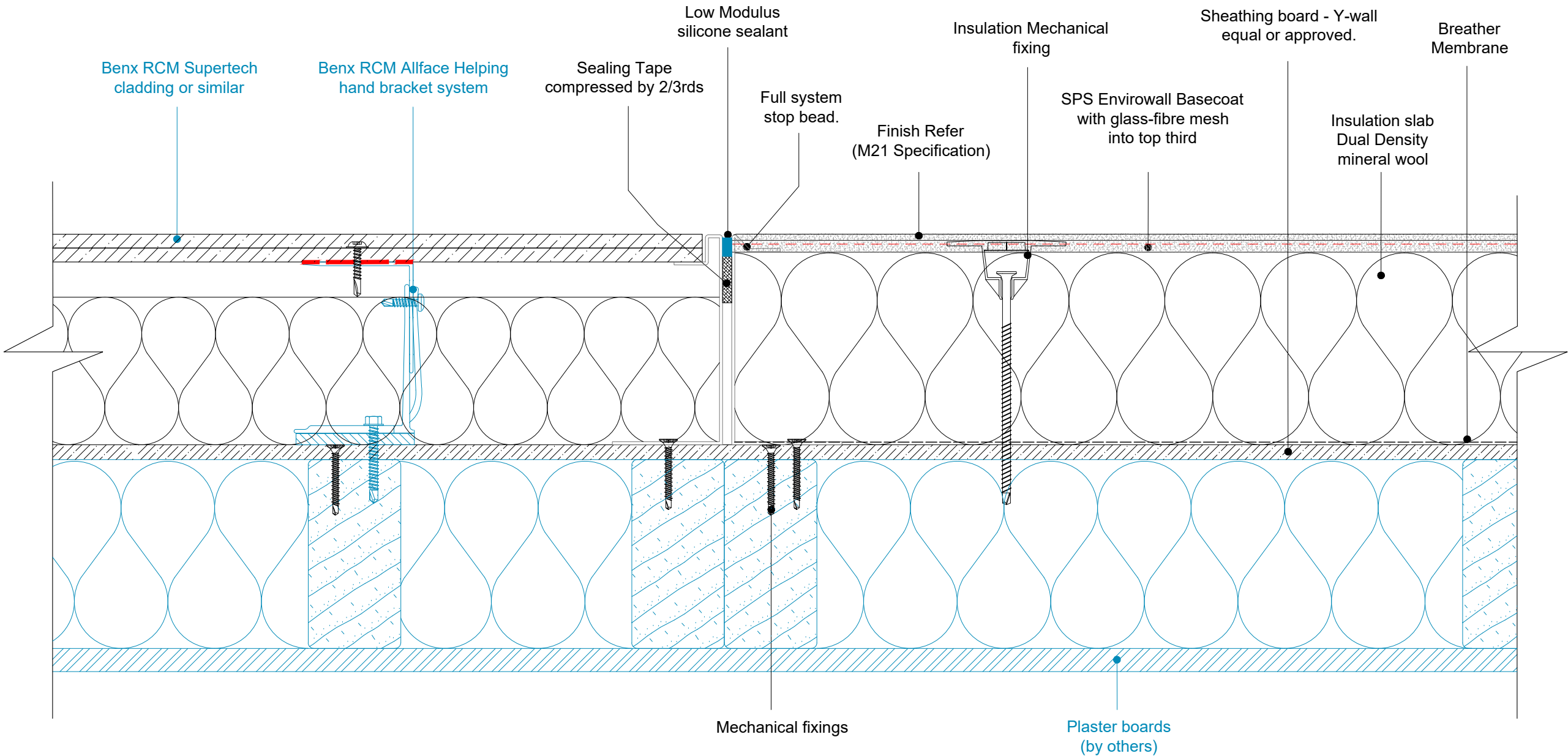
| REV | DATE     | NOTE        | BY | STATUS:                      | INFORMATION     | DRAWN: |
|-----|----------|-------------|----|------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                     | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX   |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-07 |                 | JT     |
|     |          |             |    | DESCRIPTION:                 |                 | NTS@A3 |
|     |          |             |    | Brick work Abutment joint    |                 | DATE:  |
|     |          |             |    |                              |                 | Aug 22 |
|     |          |             |    |                              |                 | REV:   |
|     |          |             |    |                              |                 | A      |

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.



- 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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
  - 3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
  - 4. 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)

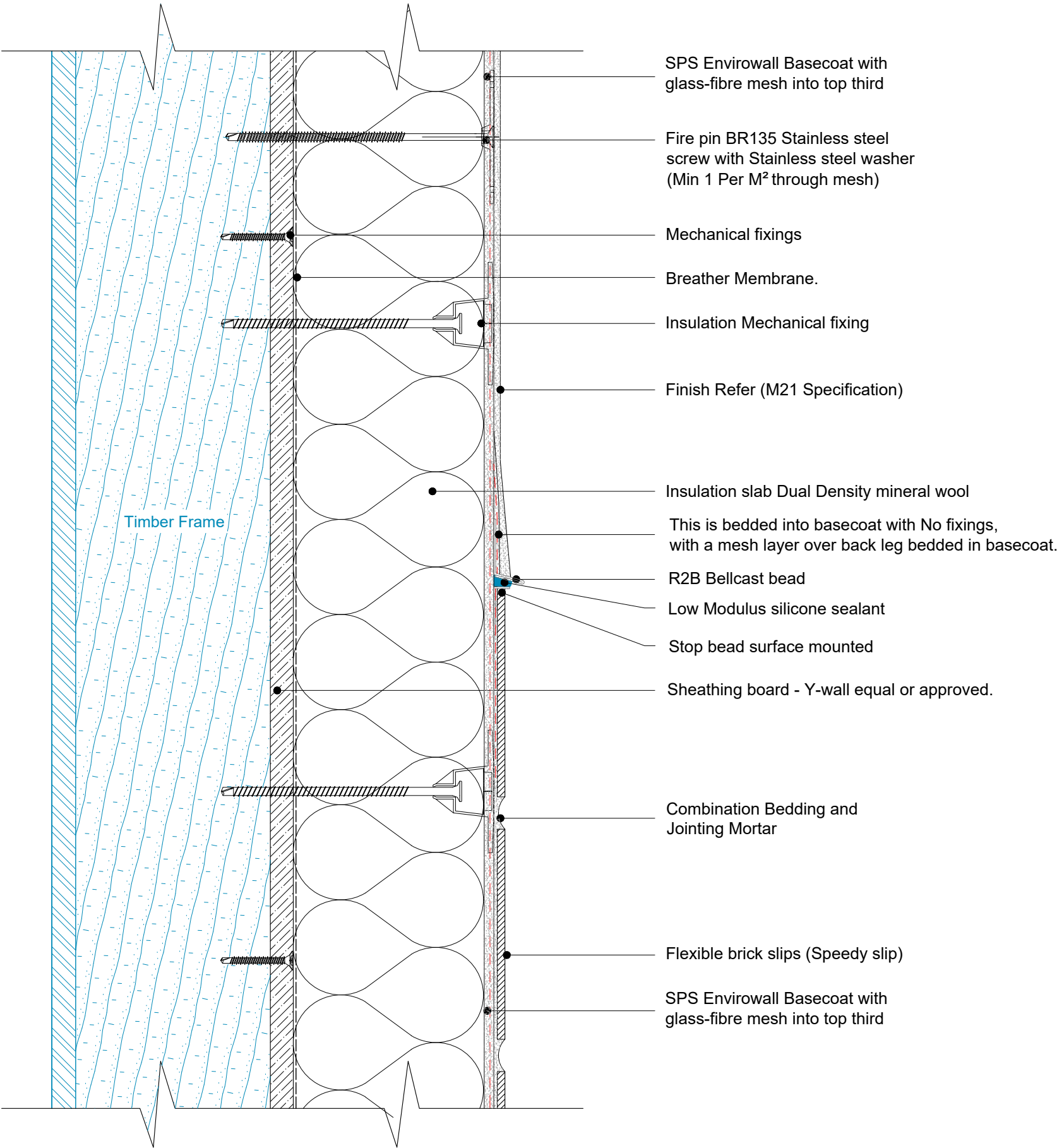
All performance data & systems specifications are for systems constructed with materials & components as shown. The inclusion or substitution of any other manufactures materials or components invalidates both test data, system performance and compliance with CDM 2015. The information is provided and 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     | DRAWN: |
|-----|----------|-------------|----|----------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                         | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX       |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-09     |                 | JT     |
|     |          |             |    | DESCRIPTION:                     |                 | NTS@A3 |
|     |          |             |    | Joint with other cladding system |                 | DATE:  |
|     |          |             |    |                                  |                 | Aug 22 |
|     |          |             |    |                                  |                 | REV:   |
|     |          |             |    |                                  |                 | A      |



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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
- 3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
- 4. Movement joint within the system and structure please refer to guidance note within M21 specification.

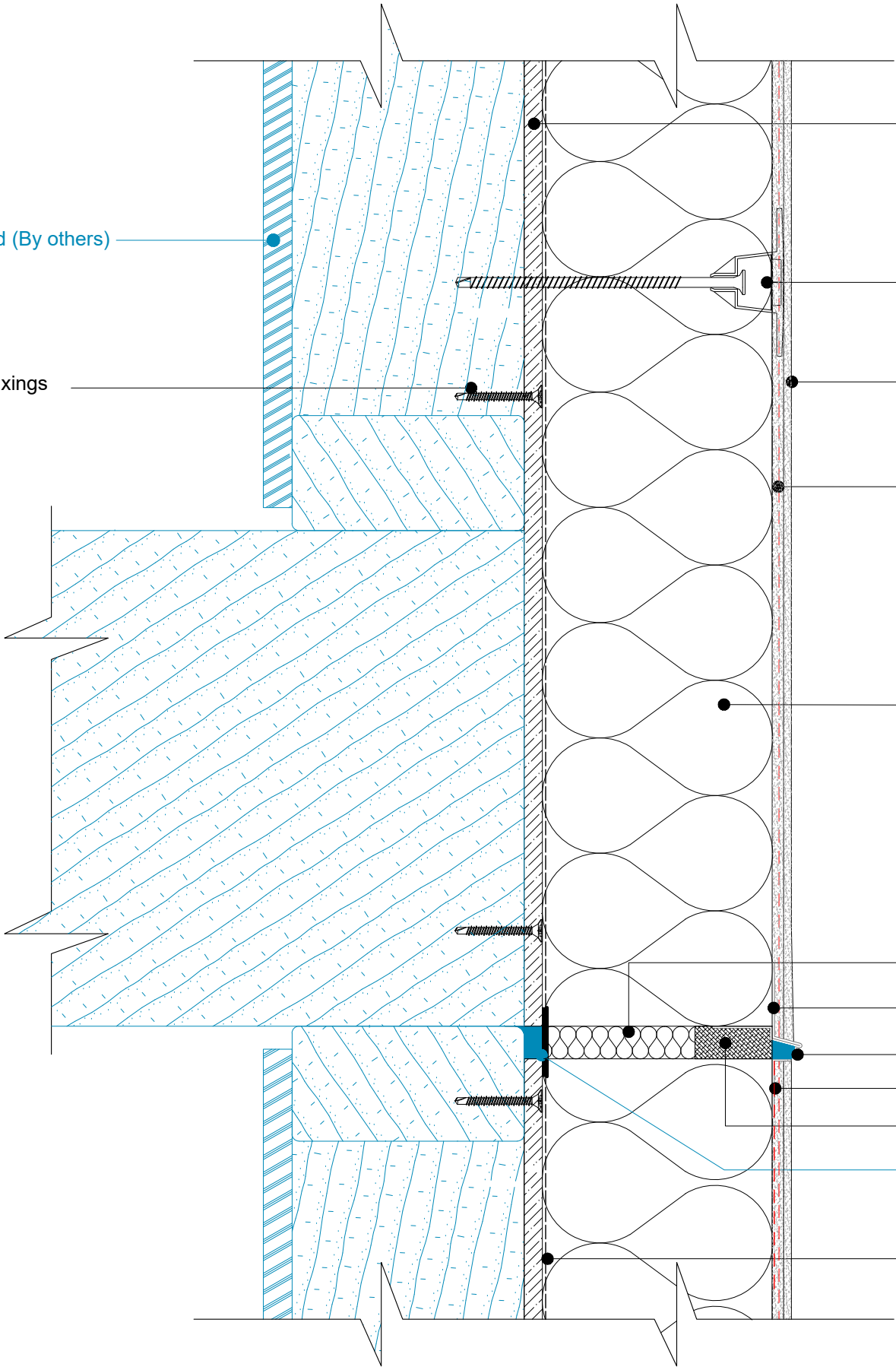


Note:

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.
5. SFS Slotted head & stud track.
6. SFS to overhang slab no more than  $\frac{1}{3}$  of depth of stud.
7. Sliding angle to allow variations in line and levels of slab edge, continuous support of EWI system

Plaster Board (By others)

Mechanical fixings



Sheathing board - Y-wall equal or approved.

Insulation Mechanical fixing

Finish Refer (M21 Specification)

SPS Envirowall Basecoat with glass-fibre mesh into top third

Insulation slab Dual Density mineral wool

Compressible Mineral wool

Balcony drip bead

Low Modulus silicone sealant

Stop bead

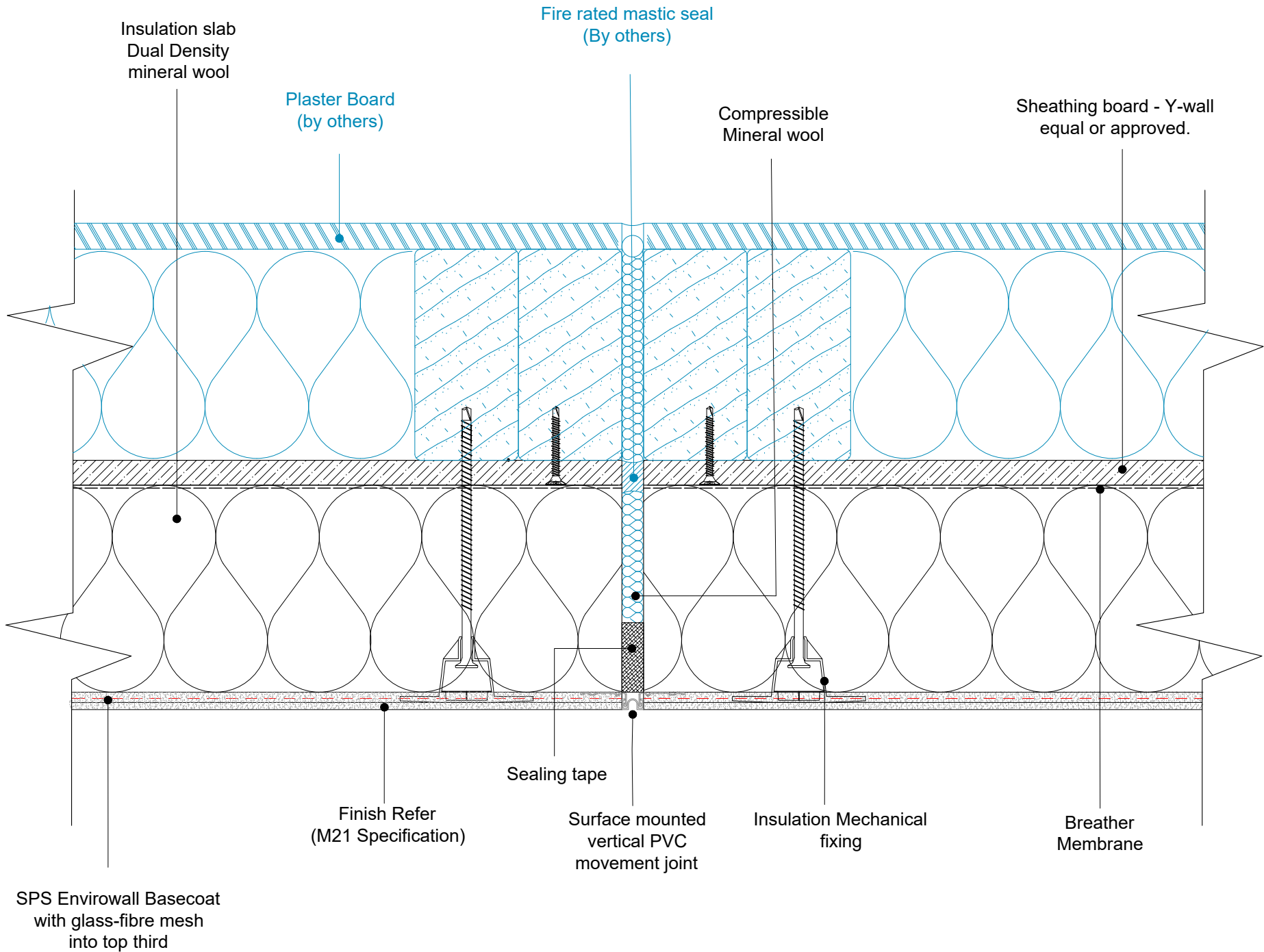
Self adhesive sealing tape

Fire rated sealant with Foil tape or similar over board joint.(By others)

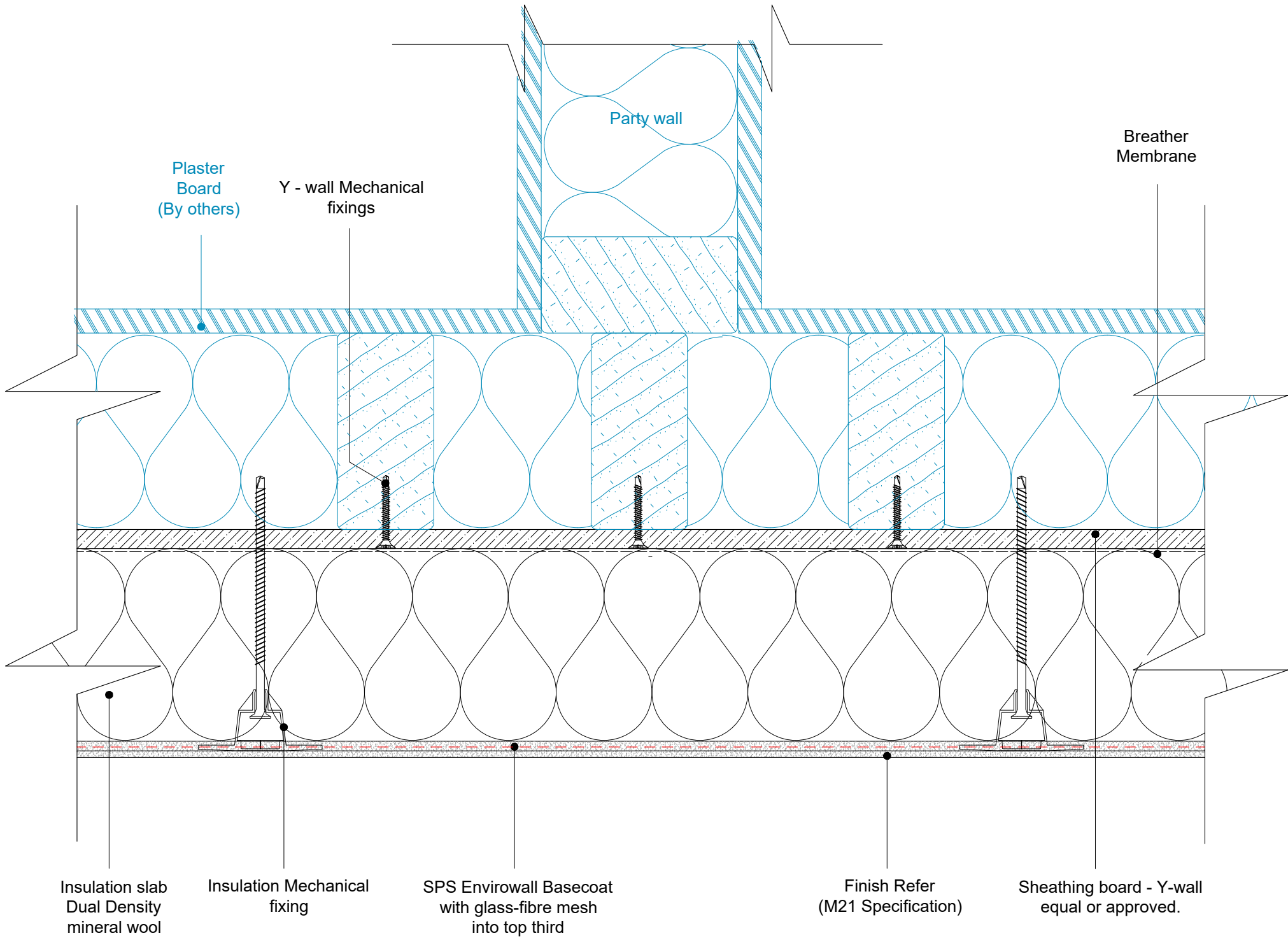
Breather Membrane

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.

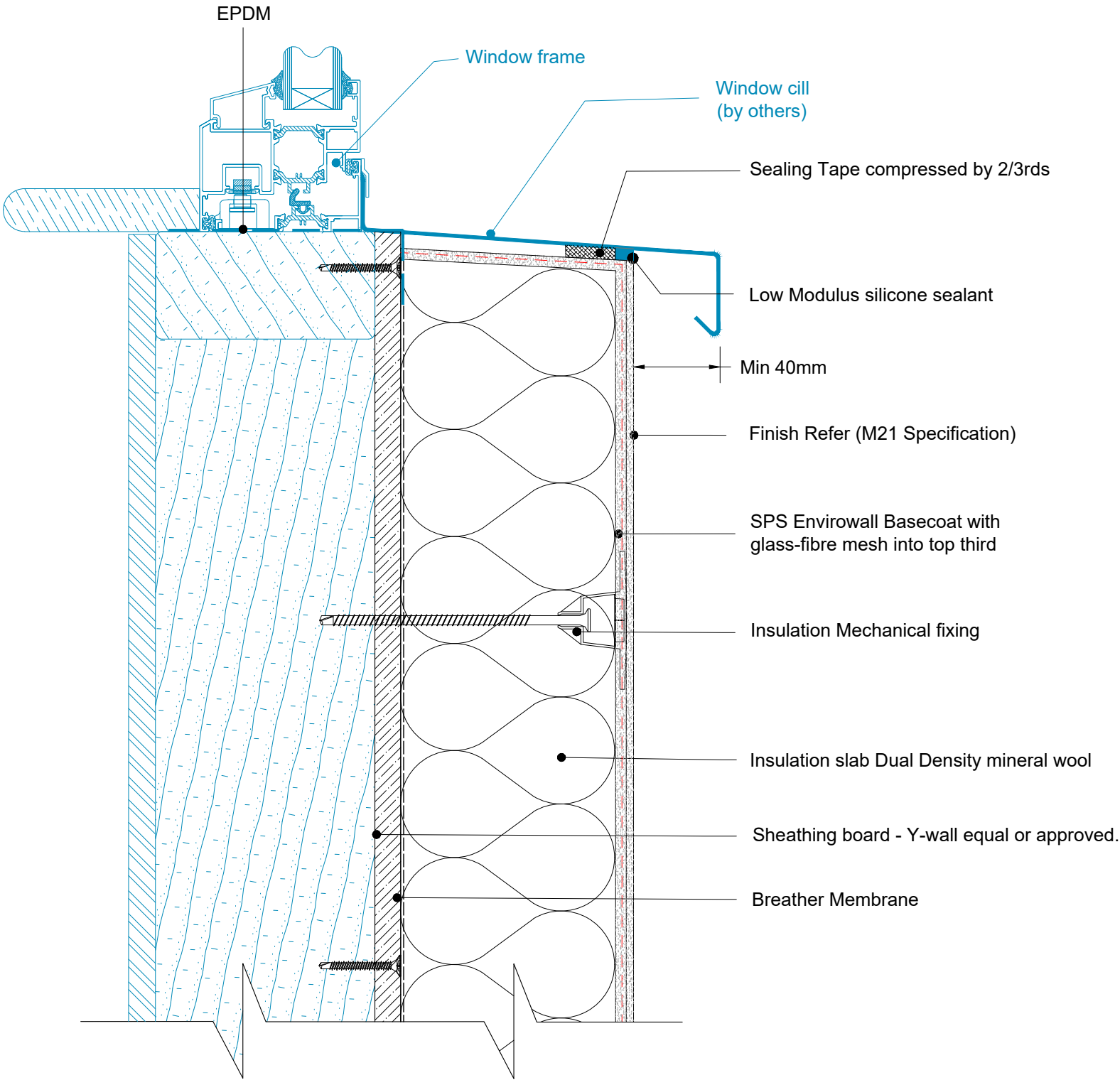


- Note:
1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
  2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
  3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
  4. Movement joint within the system and structure please refer to guidance note within M21 specification.
  5. SFS Slotted head & stud track.
  6. Variations in line and level of slab taken up with fire stop material.



Note:

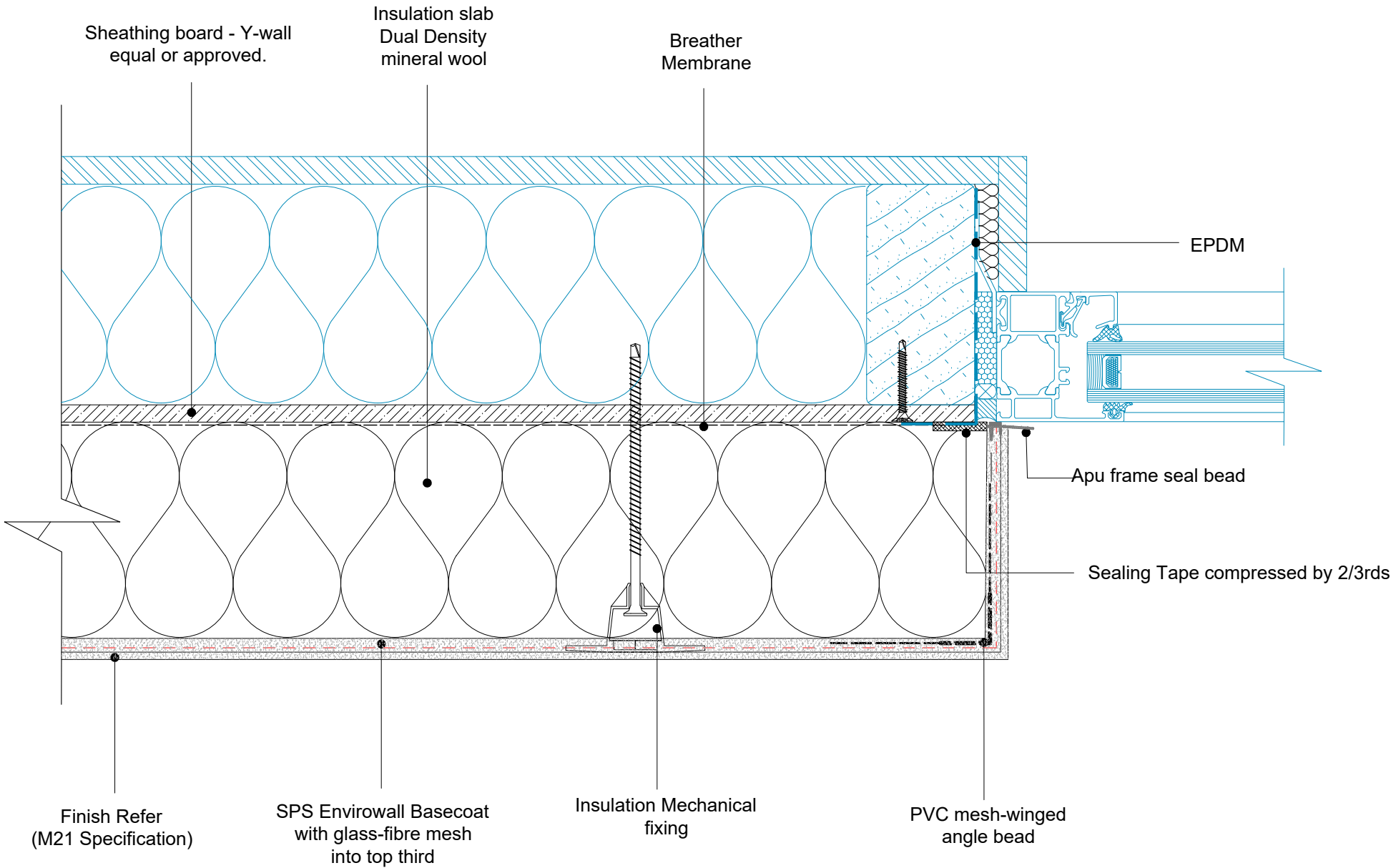
1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.
5. Air tightness and sealant detail between window / door to sheathing board / structure by others.



| REV | DATE     | NOTE        | BY | STATUS:                      | INFORMATION     | DRAWN: |
|-----|----------|-------------|----|------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                     | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX   |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-14 |                 | JT     |
|     |          |             |    | DESCRIPTION:                 |                 | NTS@A3 |
|     |          |             |    | Window Cill                  |                 | DATE:  |
|     |          |             |    |                              |                 | Aug 22 |
|     |          |             |    |                              |                 | REV:   |
|     |          |             |    |                              |                 | A      |

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.
5. Air tightness and sealant detail between window / door to sheathing board / structure by others.



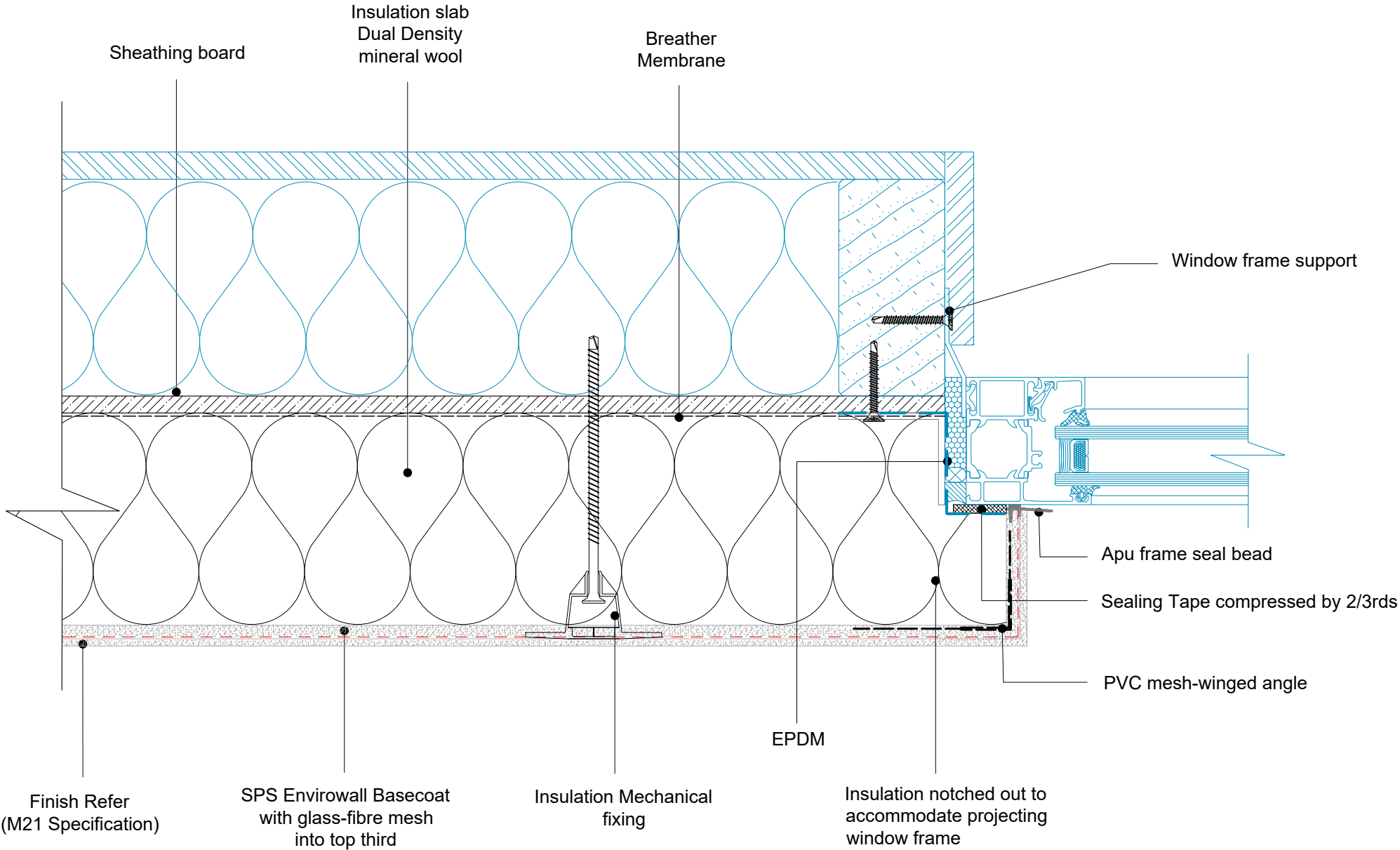
Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

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     | DRAWN: |
|-----|----------|-------------|----|------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                     | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX   |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-15 |                 | JT     |
|     |          |             |    | DESCRIPTION:                 |                 | NTS@A3 |
|     |          |             |    | Window Reveal                |                 | DATE:  |
|     |          |             |    |                              |                 | Aug 22 |
|     |          |             |    |                              |                 | REV:   |
|     |          |             |    |                              |                 | A      |

Note:

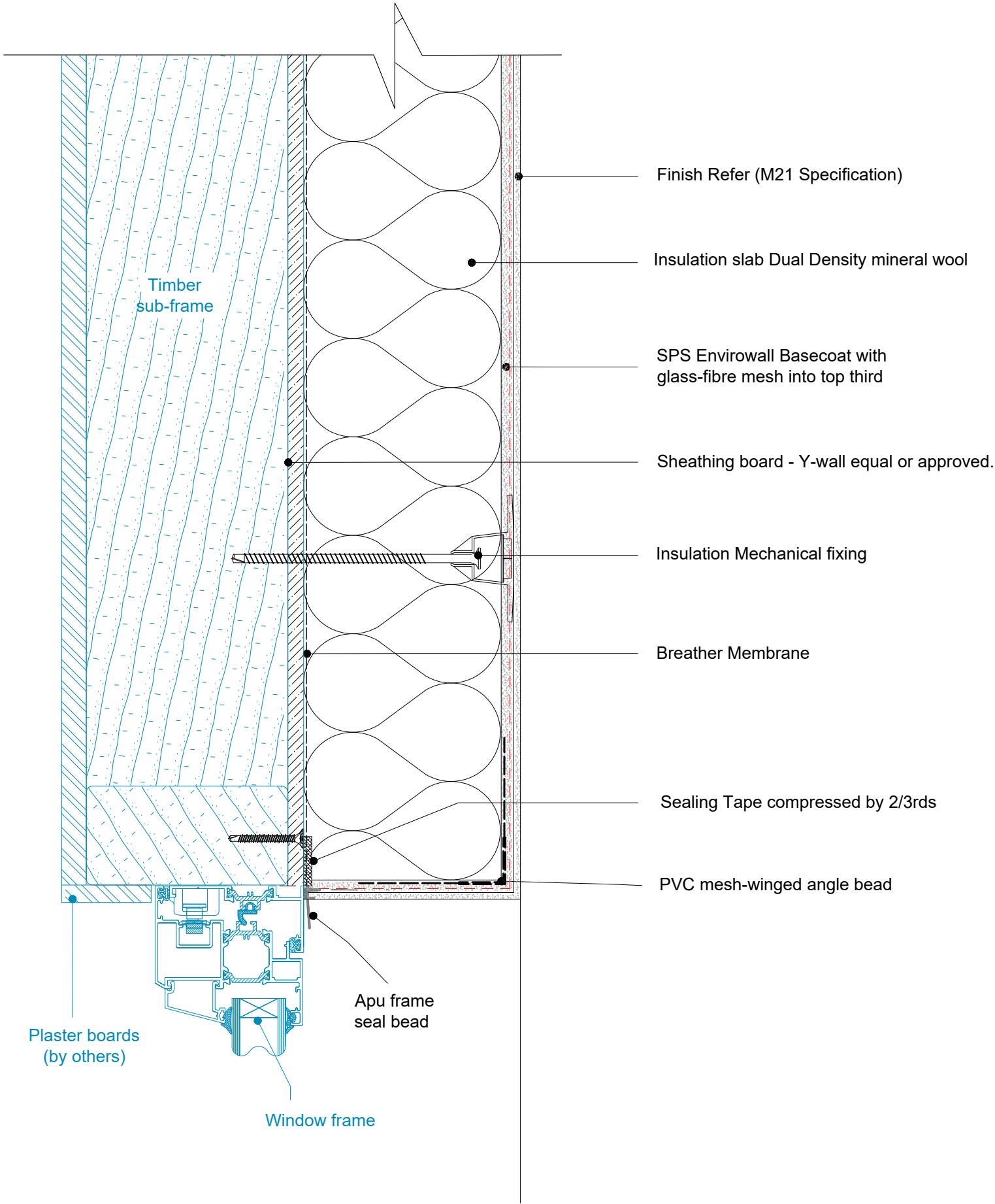
1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.
5. Air tightness and sealant detail between window / door to sheathing board / structure by others.



| REV | DATE     | NOTE        | BY | STATUS:                               | INFORMATION     | DRAWN: |
|-----|----------|-------------|----|---------------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                              | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX            |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-16          |                 | JT     |
|     |          |             |    | DESCRIPTION:                          |                 | NTS@A3 |
|     |          |             |    | Window Reveal with window set forward |                 | DATE:  |
|     |          |             |    |                                       |                 | Aug 22 |
|     |          |             |    |                                       |                 | REV:   |
|     |          |             |    |                                       |                 | A      |

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.
5. Air tightness and sealant detail between window / door to sheathing board / structure by others.



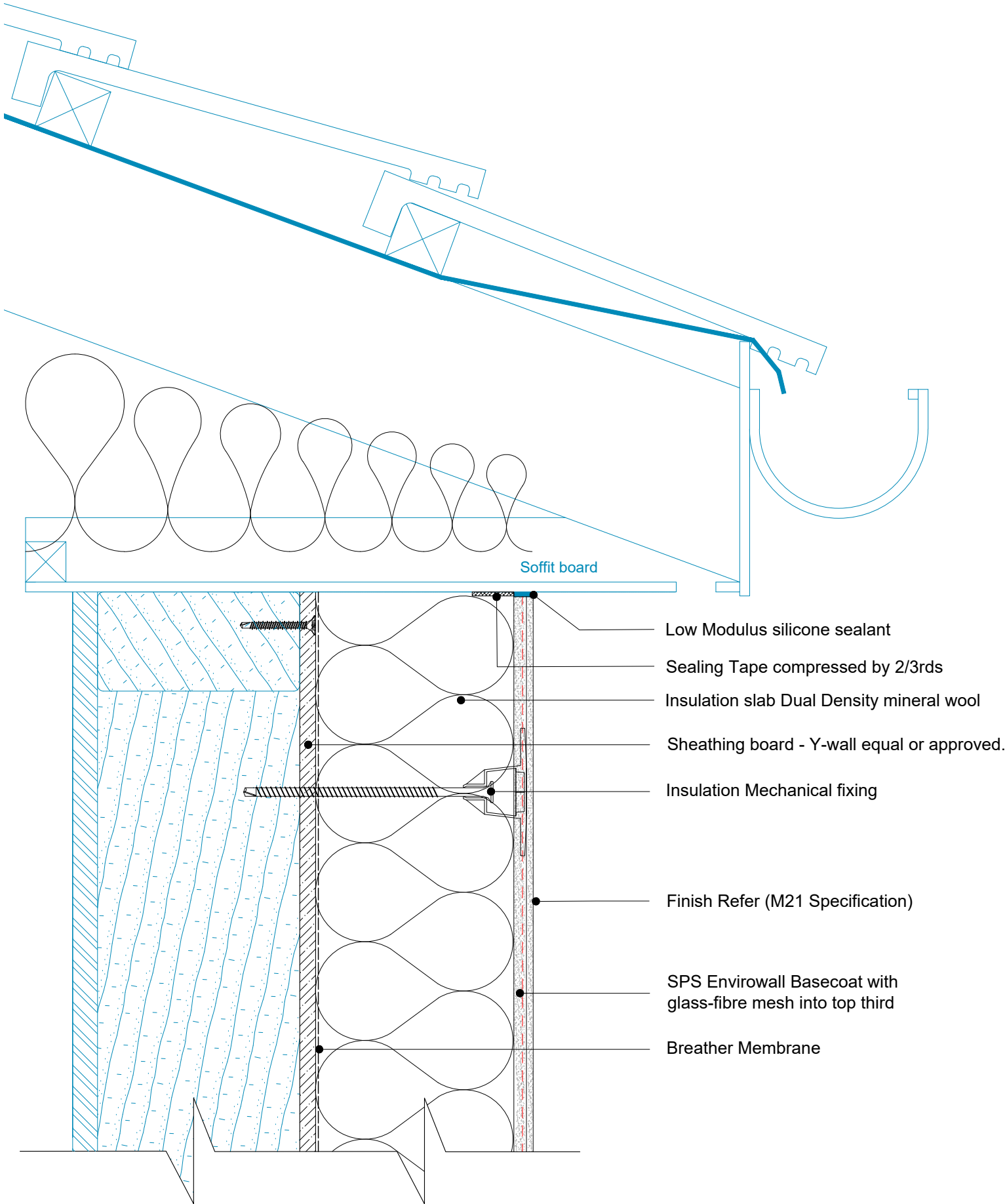
Benx Ltd, Lonsdale Chambers,  
Lonsdale Street,  
Stoke-on-Trent  
Staffordshire  
ST4 4BT  
Telephone: 0845 130 0983  
Email:  
[technicalservices@benx.co.uk](mailto:technicalservices@benx.co.uk)

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     | DRAWN: |
|-----|----------|-------------|----|------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                     | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX   |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-17 |                 | JT     |
|     |          |             |    | DESCRIPTION:                 |                 | NTS@A3 |
|     |          |             |    | Window Head                  |                 | DATE:  |
|     |          |             |    |                              |                 | Aug 22 |
|     |          |             |    |                              |                 | REV:   |
|     |          |             |    |                              |                 | A      |

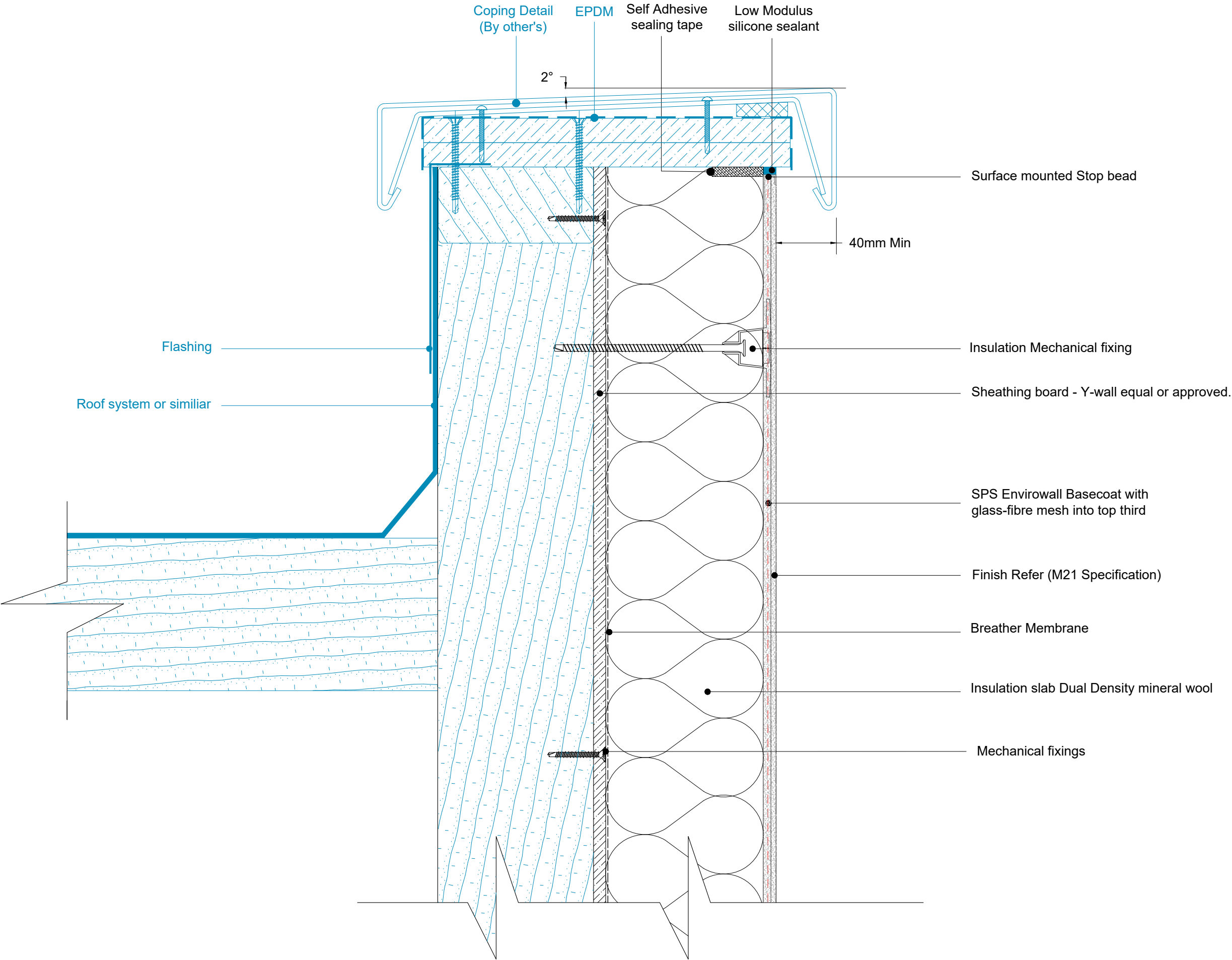
Note:

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.



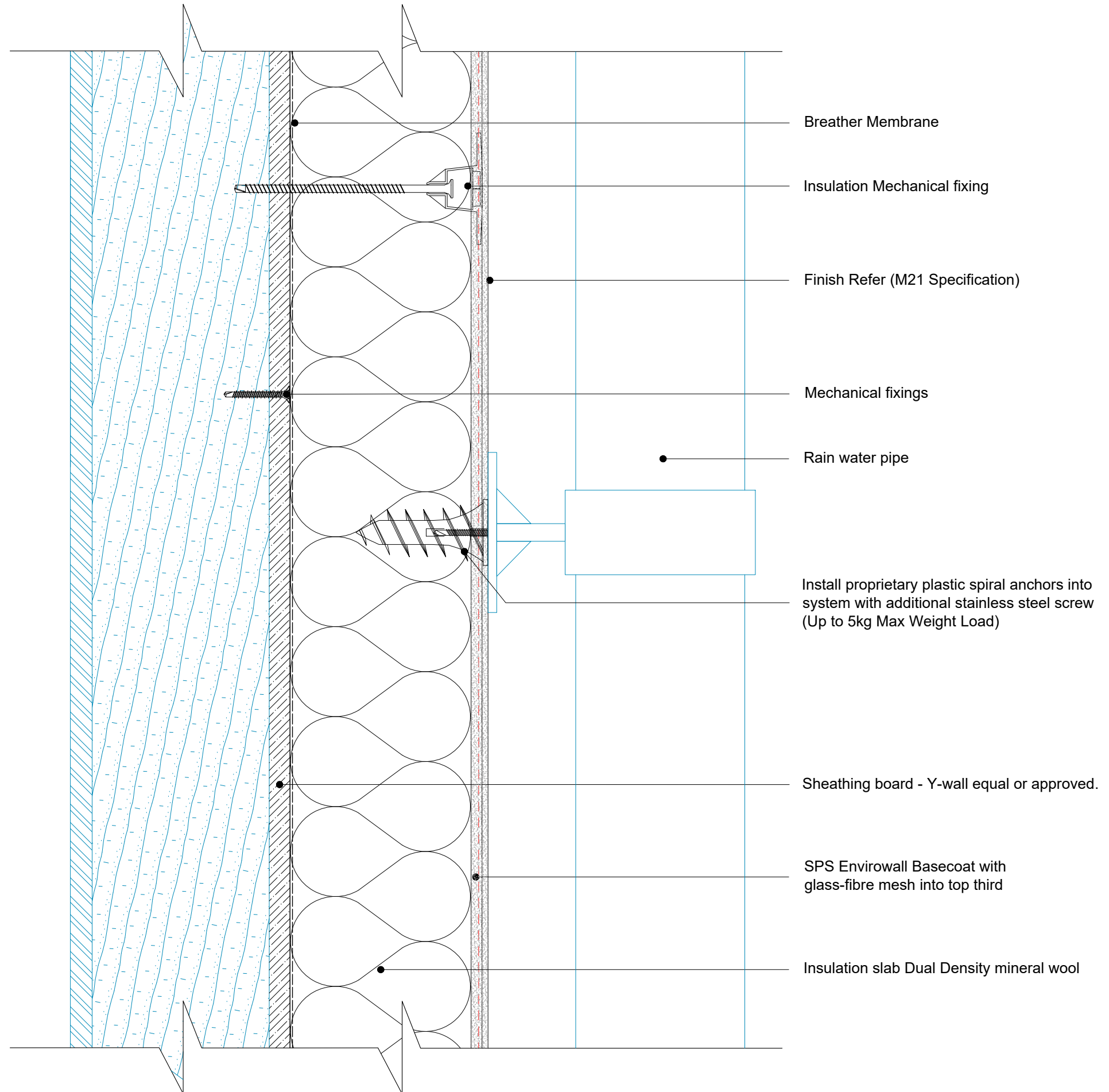
Note:

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.



| REV | DATE     | NOTE        | BY | STATUS:                      | INFORMATION     | DRAWN: |
|-----|----------|-------------|----|------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                     | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX   |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-19 |                 | JT     |
|     |          |             |    | DESCRIPTION:                 |                 | NTS@A3 |
|     |          |             |    | Coping Detail                |                 | DATE:  |
|     |          |             |    |                              |                 | Aug 22 |
|     |          |             |    |                              |                 | REV:   |
|     |          |             |    |                              |                 | A      |

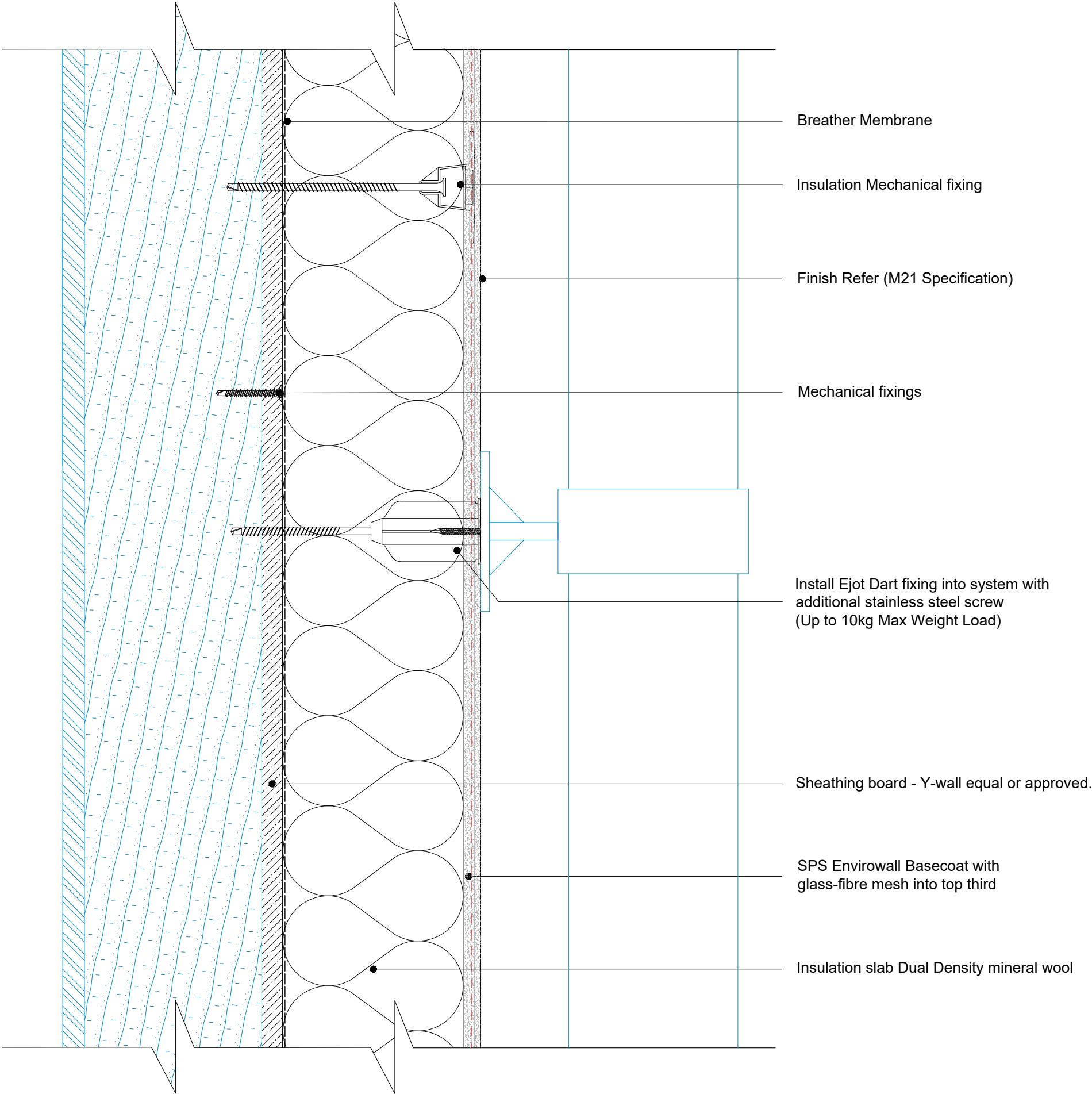
1. The EWI system illustrated are based on a typical system - Insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.



| REV | DATE     | NOTE        | BY | STATUS:                                      | INFORMATION     | DRAWN:<br>AG    |
|-----|----------|-------------|----|----------------------------------------------|-----------------|-----------------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                                     | ISO No: 5201 TF | CHECK:<br>JT    |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX                   |                 | NTS@A3          |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-20                 |                 | DATE:<br>Aug 22 |
|     |          |             |    | DESCRIPTION:                                 |                 | REV:<br>A       |
|     |          |             |    | External fixing detail - Lightweight (Opt 1) |                 |                 |

Note:

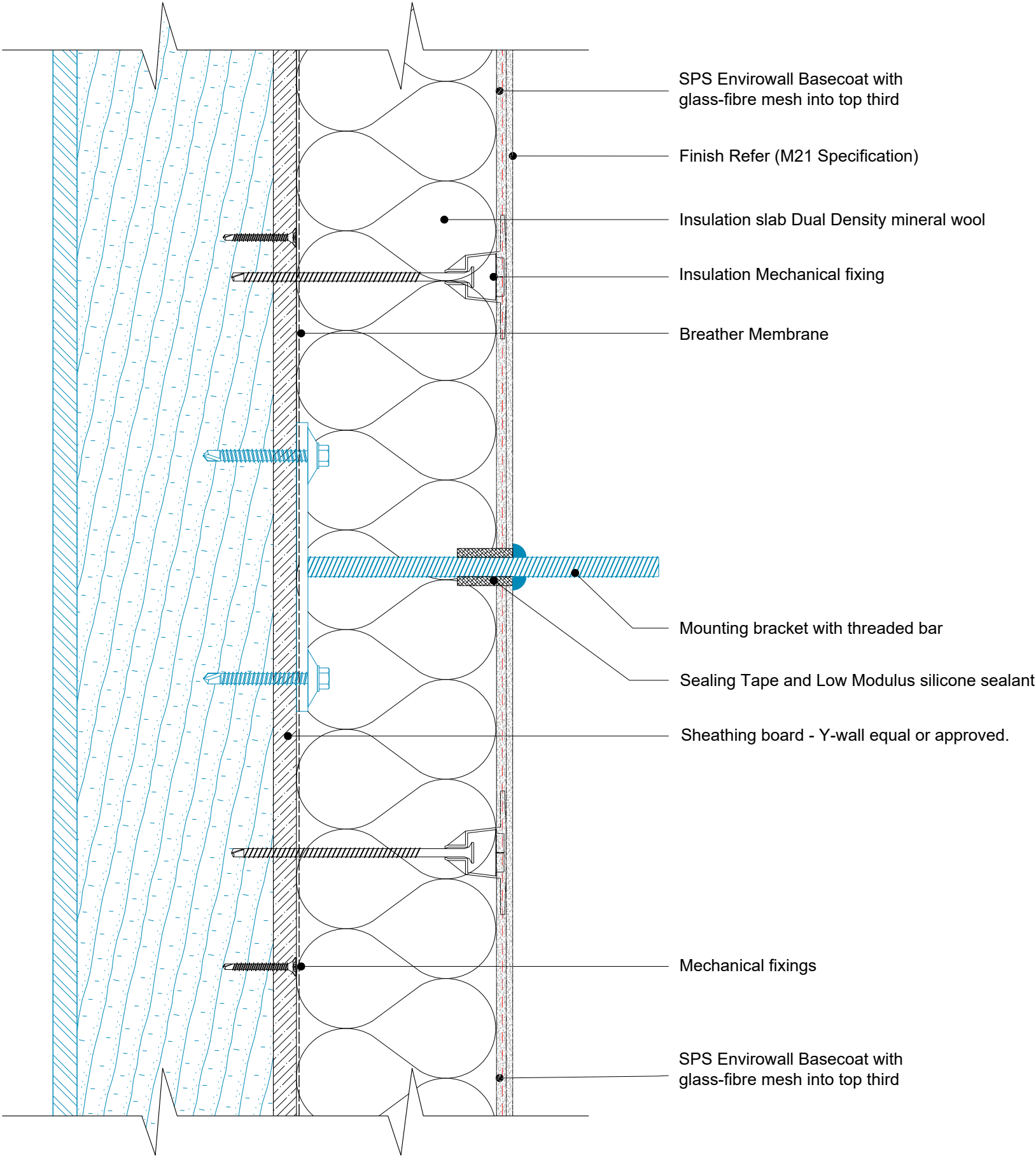
- 1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
- 2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
- 3. Fixing patterns to be confirmed,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



| REV | DATE     | NOTE        | BY | STATUS:                                       | INFORMATION     | DRAWN: |
|-----|----------|-------------|----|-----------------------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                                      | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX                    |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-21                  |                 | JT     |
|     |          |             |    | DESCRIPTION:                                  |                 | NTS@A3 |
|     |          |             |    | External fixing detail - Mediumweight (Opt 2) |                 | DATE:  |
|     |          |             |    |                                               |                 | Aug 22 |
|     |          |             |    |                                               |                 | REV:   |
|     |          |             |    |                                               |                 | A      |

Note:

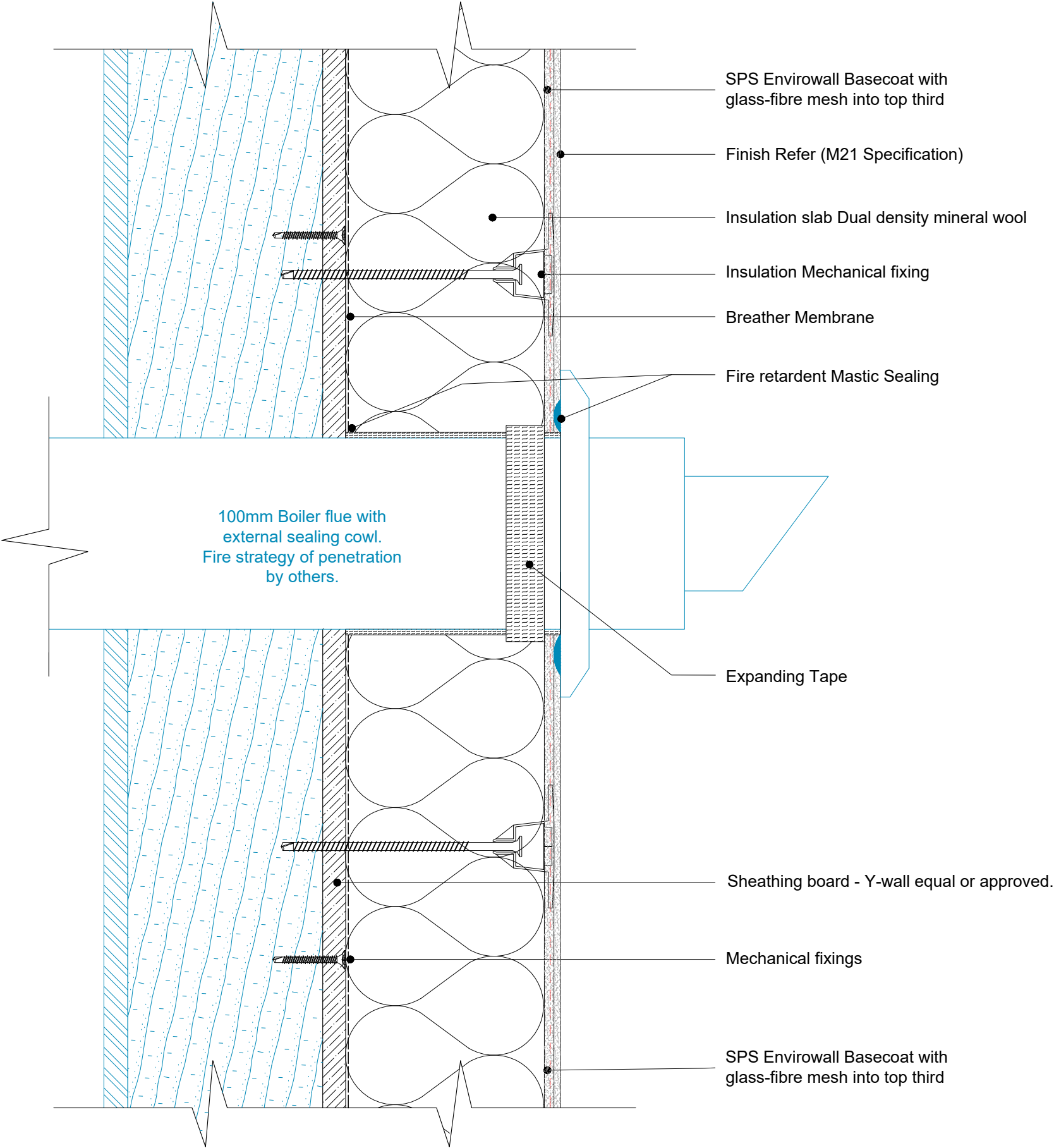
1. The EWI system illustrated are based on a typical system - All insulation thickness, mechanical fixing, beads trims, sealants to be in line with and refer to project M21 specification.
2. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject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



| REV | DATE     | NOTE        | BY | STATUS:                             | INFORMATION     | DRAWN: |
|-----|----------|-------------|----|-------------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                            | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX          |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-22        |                 | JT     |
|     |          |             |    | DESCRIPTION:                        |                 | NTS@A3 |
|     |          |             |    | External fixing detail - Heavy duty |                 | DATE:  |
|     |          |             |    |                                     |                 | Aug 22 |
|     |          |             |    |                                     |                 | REV:   |
|     |          |             |    |                                     |                 | A      |

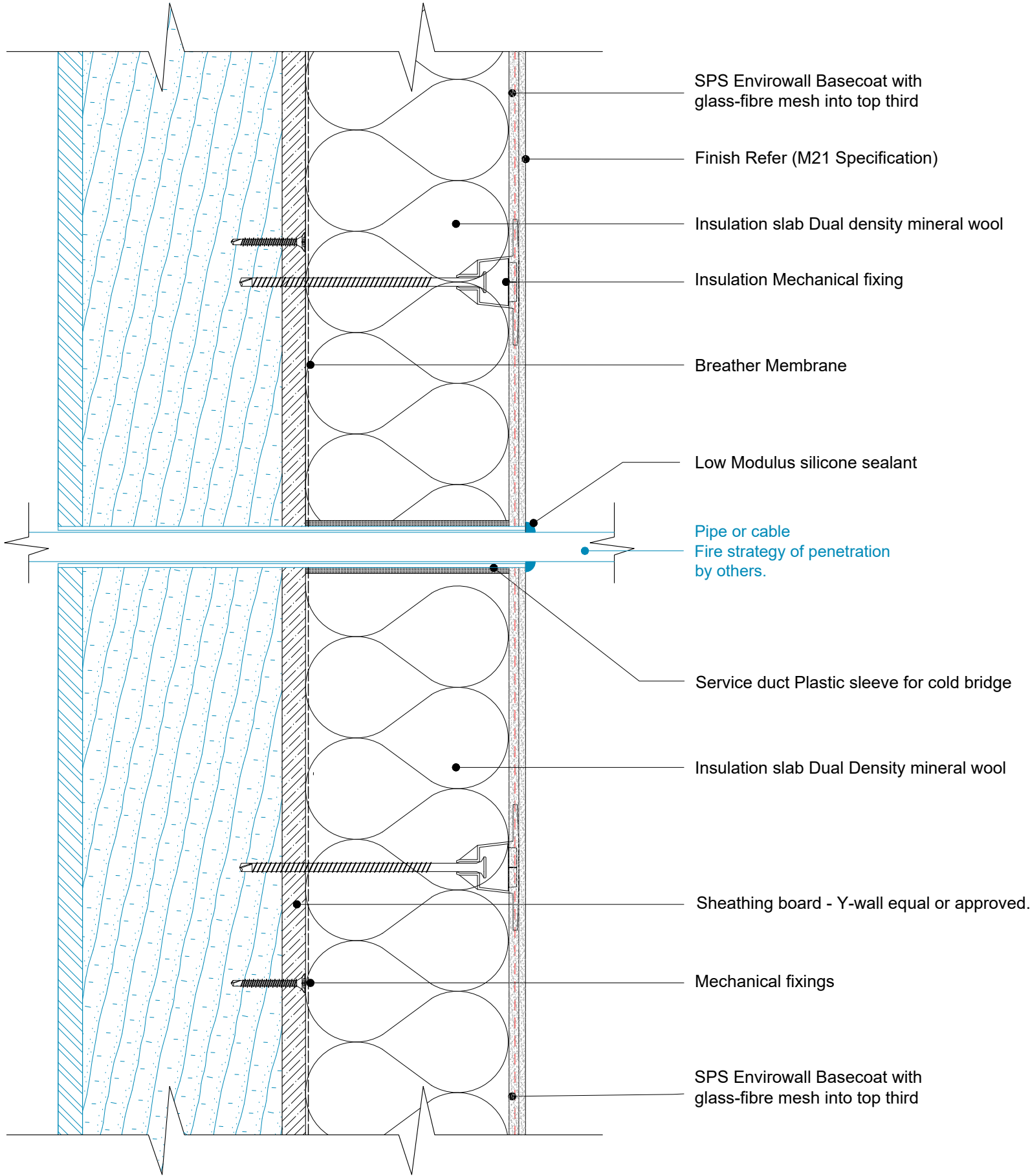
Note:

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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.



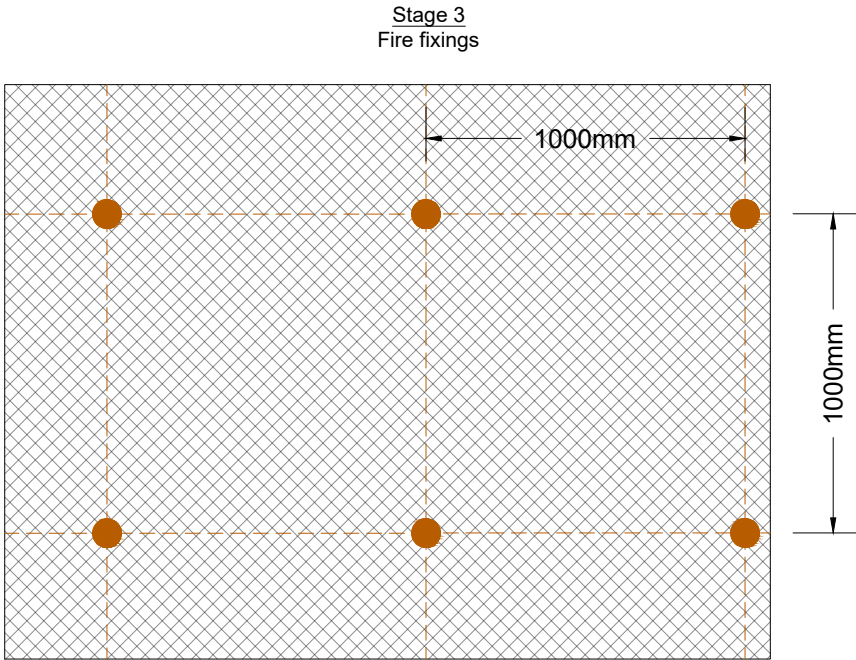
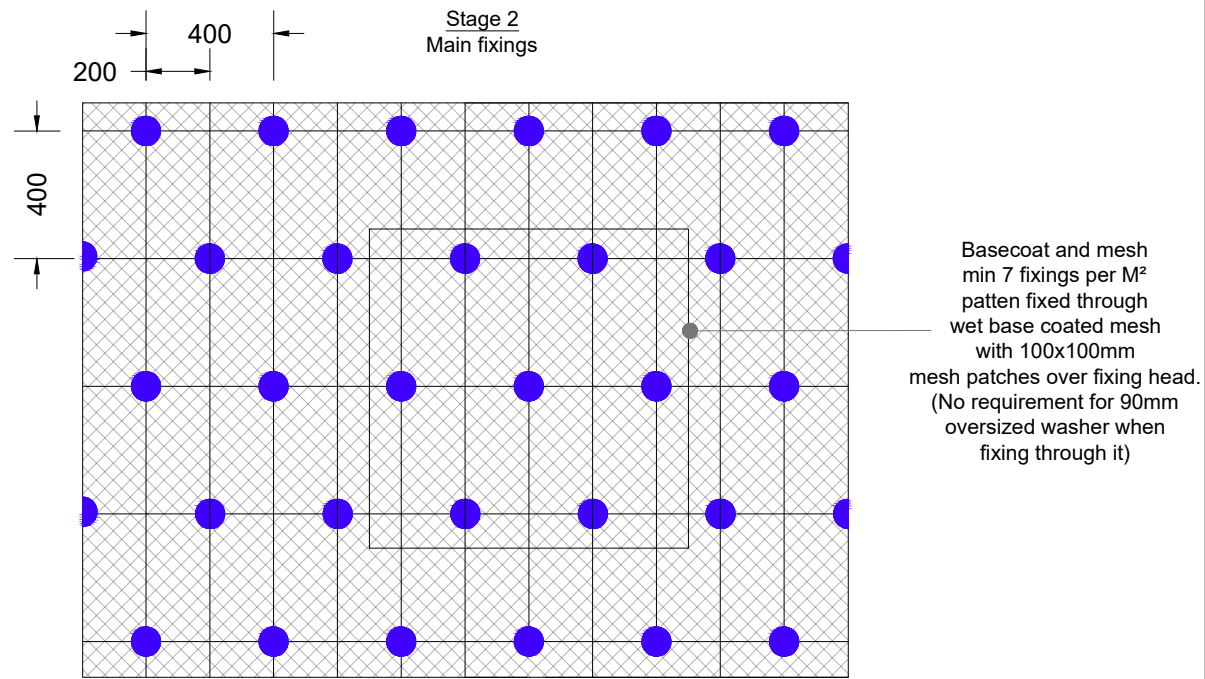
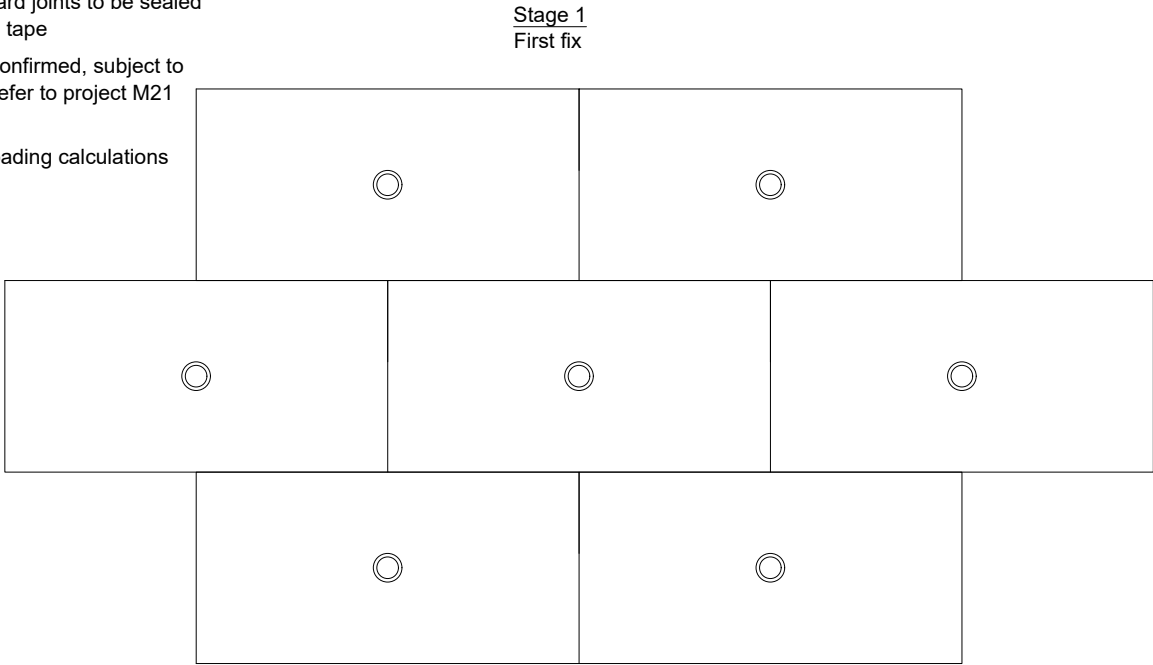
| REV | DATE     | NOTE        | BY | STATUS:                      | INFORMATION     | DRAWN: |
|-----|----------|-------------|----|------------------------------|-----------------|--------|
| A   | 29/06/23 | First Issue | AG | PROJECT:                     | ISO No: 5201 TF | AG     |
|     |          |             |    | TYPICAL DETAILS DIRECT FIX   |                 | CHECK: |
|     |          |             |    | DRAWING No: TD-DF-TF-MW-R-23 |                 | JT     |
|     |          |             |    | DESCRIPTION:                 |                 | NTS@A3 |
|     |          |             |    | Flue or extract fan detail   |                 | DATE:  |
|     |          |             |    |                              |                 | Aug 22 |
|     |          |             |    |                              |                 | REV:   |
|     |          |             |    |                              |                 | A      |

- 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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
  - 3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
  - 4. Movement joint within the system and structure please refer to guidance note within M21 specification.
  - 5. Service duct fire stopping by M&E Design Cordinator.



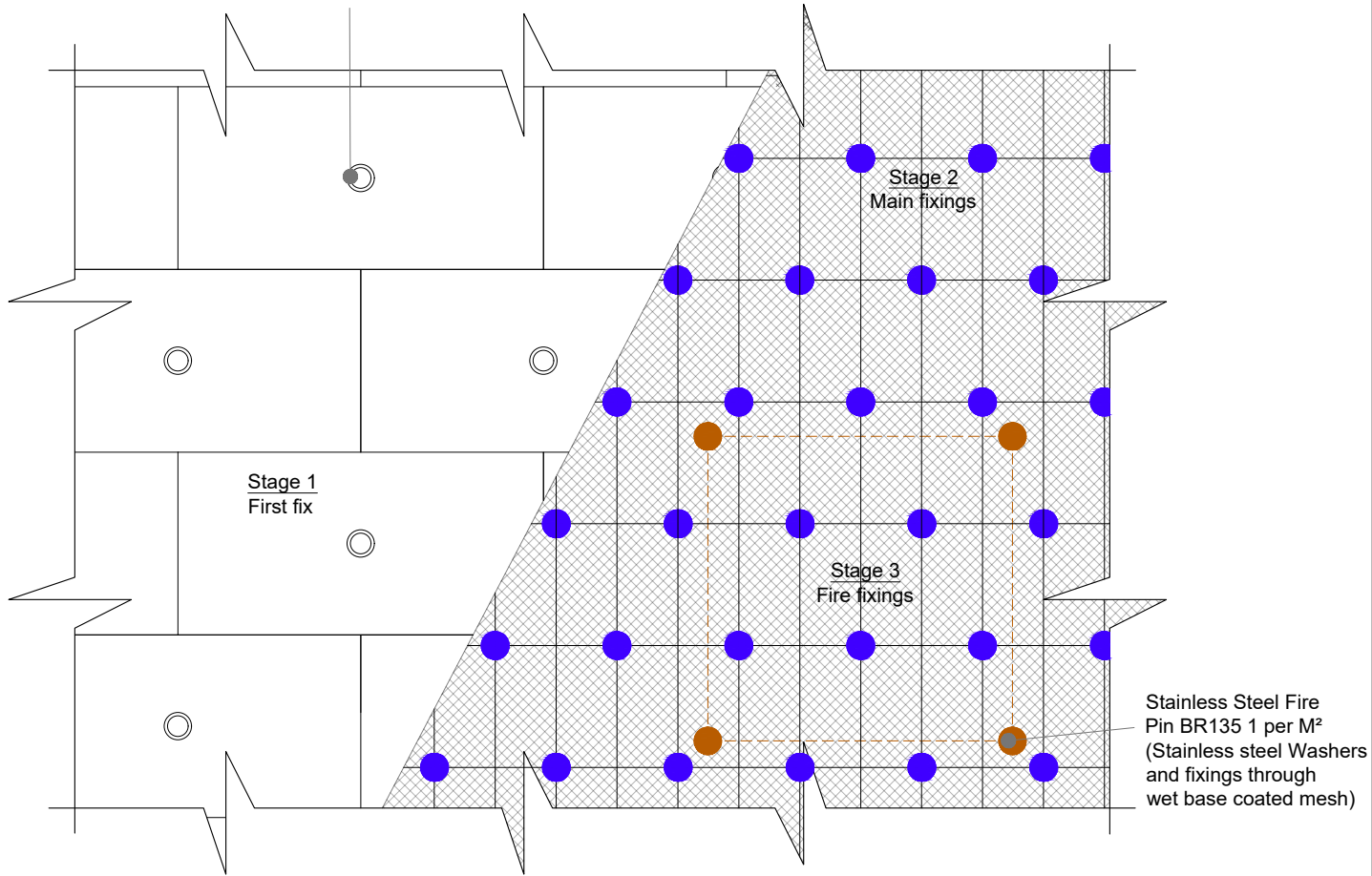
Note:

1. This drawing must be read in-conjunction with project specific NBS M21 specification
2. All main sheathing board joints to be sealed with RCM tape + Dafa tape
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification
4. Please refer to wind loading calculations on contract.



| Design Wind Load Values | Number of fixings (Per M²) | Design Resistance (KN) |
|-------------------------|----------------------------|------------------------|
| 3.3                     | 8                          | 0.39*                  |
| 2.6                     | 7                          |                        |
| 1.95                    | 5                          |                        |

Sacrificial Fixings  
60mm fixing washer to sit inside  
A minimum 90mm oversized washer required for fixings.



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. All main sheathing board joints to be sealed with RCM tape + Dafa tape.
3. Fixing patterns to be confirmed, subject to project wind loading, refer to project M21 specification.
4. Movement joint within the system and structure please refer to guidance note within M21 specification.

