Indurabond

ALUMINIUM COMPOSITE PANELS

Tophat Fixing System

Version 2.5
January 2025

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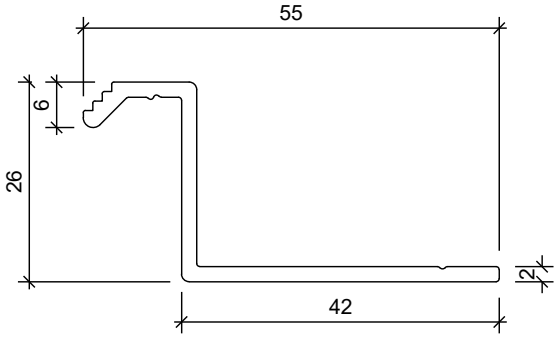
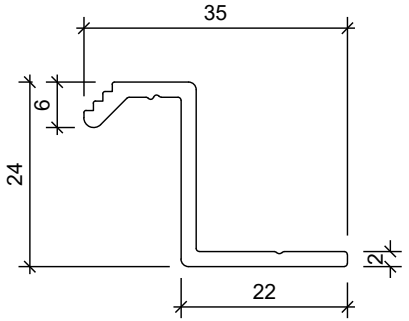
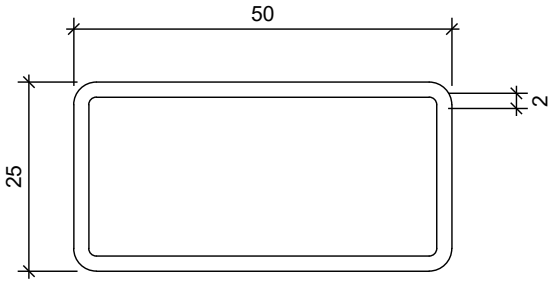


Indurafix High Z-Angle (First Fix)
Alloy & Temper: 6060-T6
Colour: Mill Finish



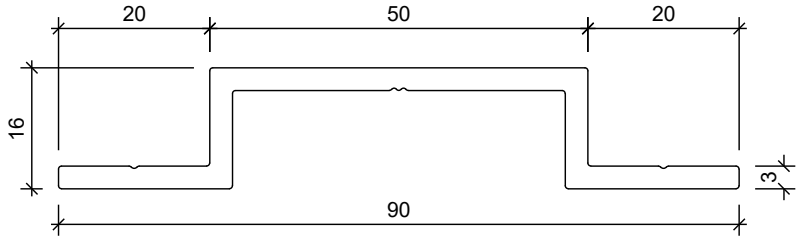
Indurafix Low Z-Angle (Second Fix)
Alloy & Temper: 6060-T6
Colour: Mill Finish



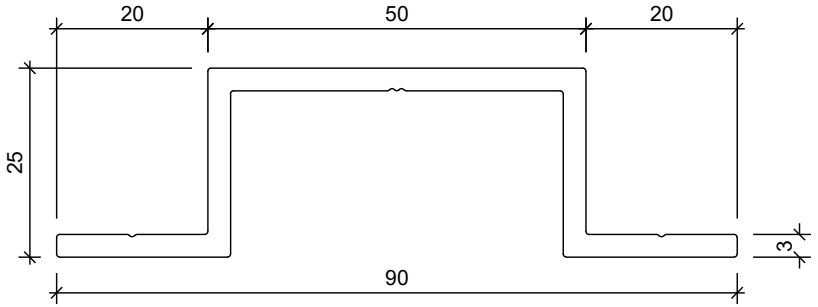
RHS Stiffener 50X25X2mm
Alloy & Temper: 6060-T6
Colour: Mill Finish
Adhesive Glue: Minimum 2mm thick & minimum 50mm wide strip of Sabrebond SMP60
Alignment: Stiffener to be parallel to short edge

Fixing Requirement of First & Second Fix Z-Angle to Top Hat
Proposed Fastener Diameter: 4.88MM Screw
Minimum Aluminium Edge Distance: 7.32MM
For more information refer to the INDURABOND Aluminium Laminated Panels (Top Hat) Engineering Judgement

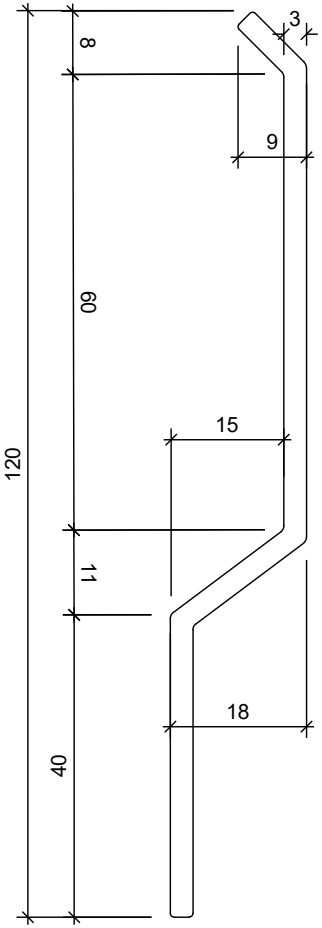
Fire Cavity Barrier (By Others)
- Ryanfire Intuspan Fire Cavity Barrier or equivalent, where required, to be installed in accordance with C/AS2



16mm TOP HAT EXTRUSION
Alloy & Temper: 6060-T6
Colour: Mill Finish



25mm TOP HAT EXTRUSION
Alloy & Temper: 6060-T6
Colour: Mill Finish



Indurabase Extrusion
Alloy & Temper: 6060-T6
Colour: Mill Finish

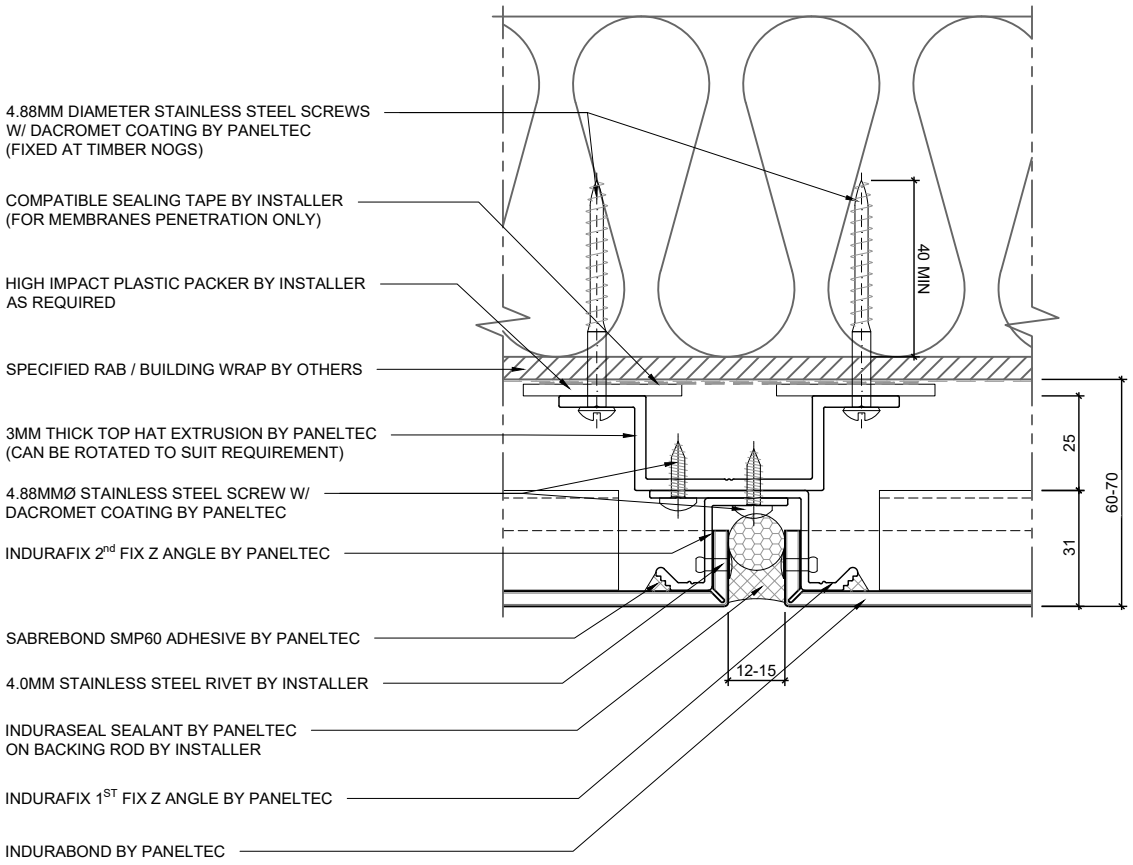
Fixing Requirements

1. **Top Hat to Timber Substrate**
   Proposed Fastener Diameter: 4.88mmØ
   No. of Fastener: 2
   Minimum Timber Embedment Depth: 40mm
   Minimimum Aluminium Edge Distance: 10mm
   Minimum Timber Edge Distance: 20mm
2. **TopHat to Steel Stud Substrate**
   Proposed Fastener Diameter: 5.59mm
   No. of Fastener: 2
   Minimimum Aluminium Edge Distance: 12mm
   Minimum Steel Edge Distance: 12mm
3. **TopHat to Concrete Substrate**
   Proposed Fastener: M6 Hilti HUS4-HR or M6 Anzor AnchorMark G316SS
   No. of Fastener: 2
   Minimimum Concrete Embedment: 55mm
   Minimum Concrete Edge Distance: 50mm
   Minimum Aluminium Edge Distance: 12mm

For stiffener spacings refer to the Indurabond Aluminium Composite Panels (Z-Angle Fixing System) Engineering Judgement & for more information refer to Induracore Aluminium Laminated Panels (Z-Angle on Top Hat Fixing System).
Structure shown on the typical details are on timber framing. Fixing system can also be applied on steel framing.

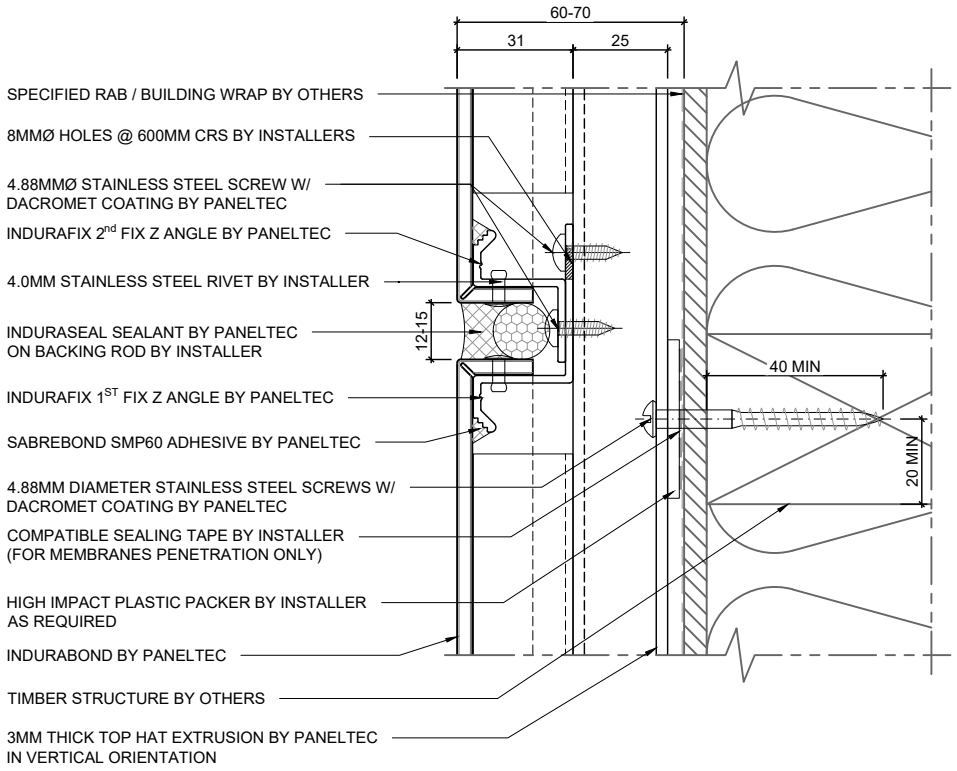
2. VERTICAL PANEL JOINT (PLAN DETAIL)

Drawing Scale 1:2



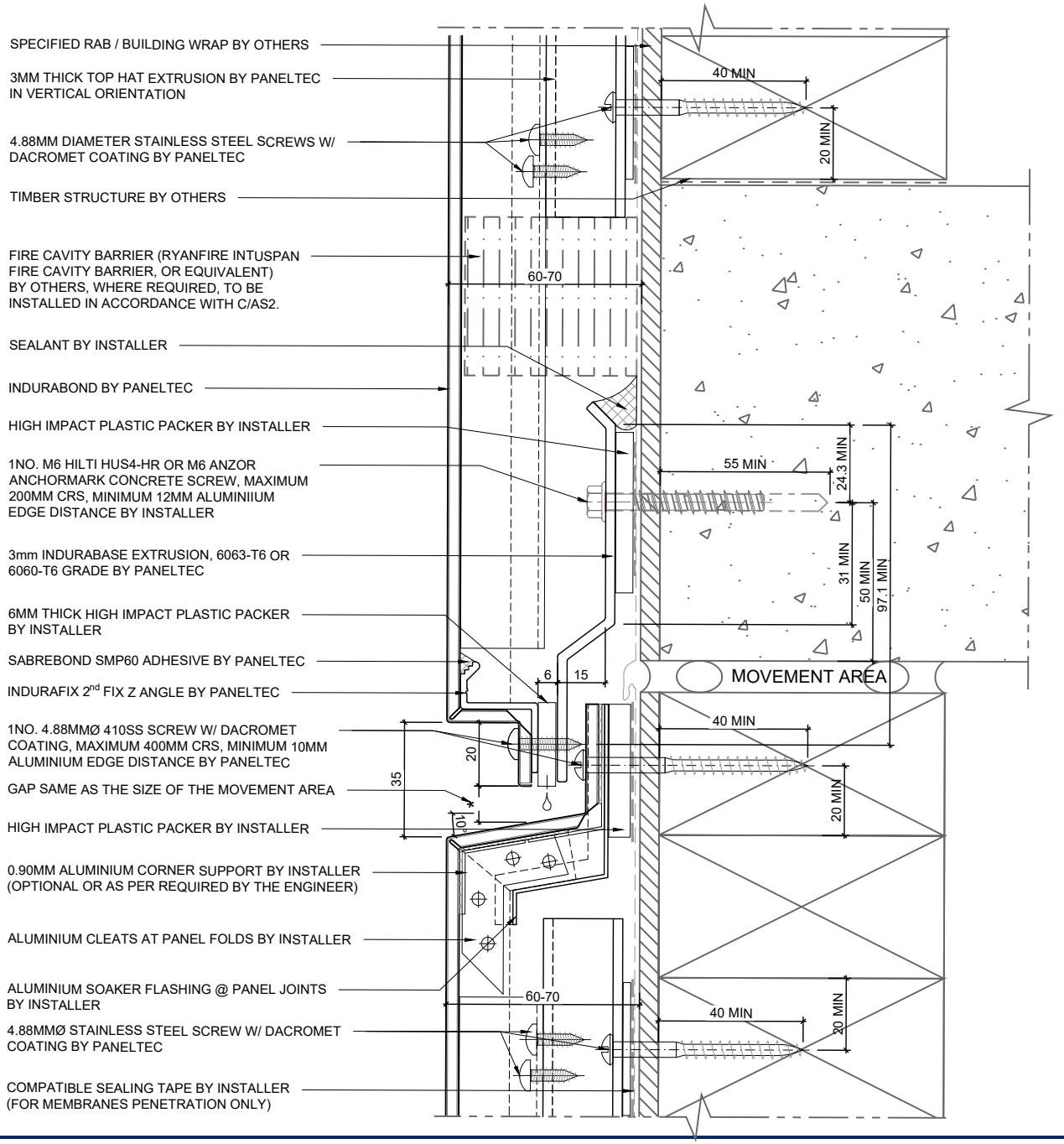
3. HORIZONTAL PANEL JOINT (SECTION DETAIL)

Drawing Scale 1:2



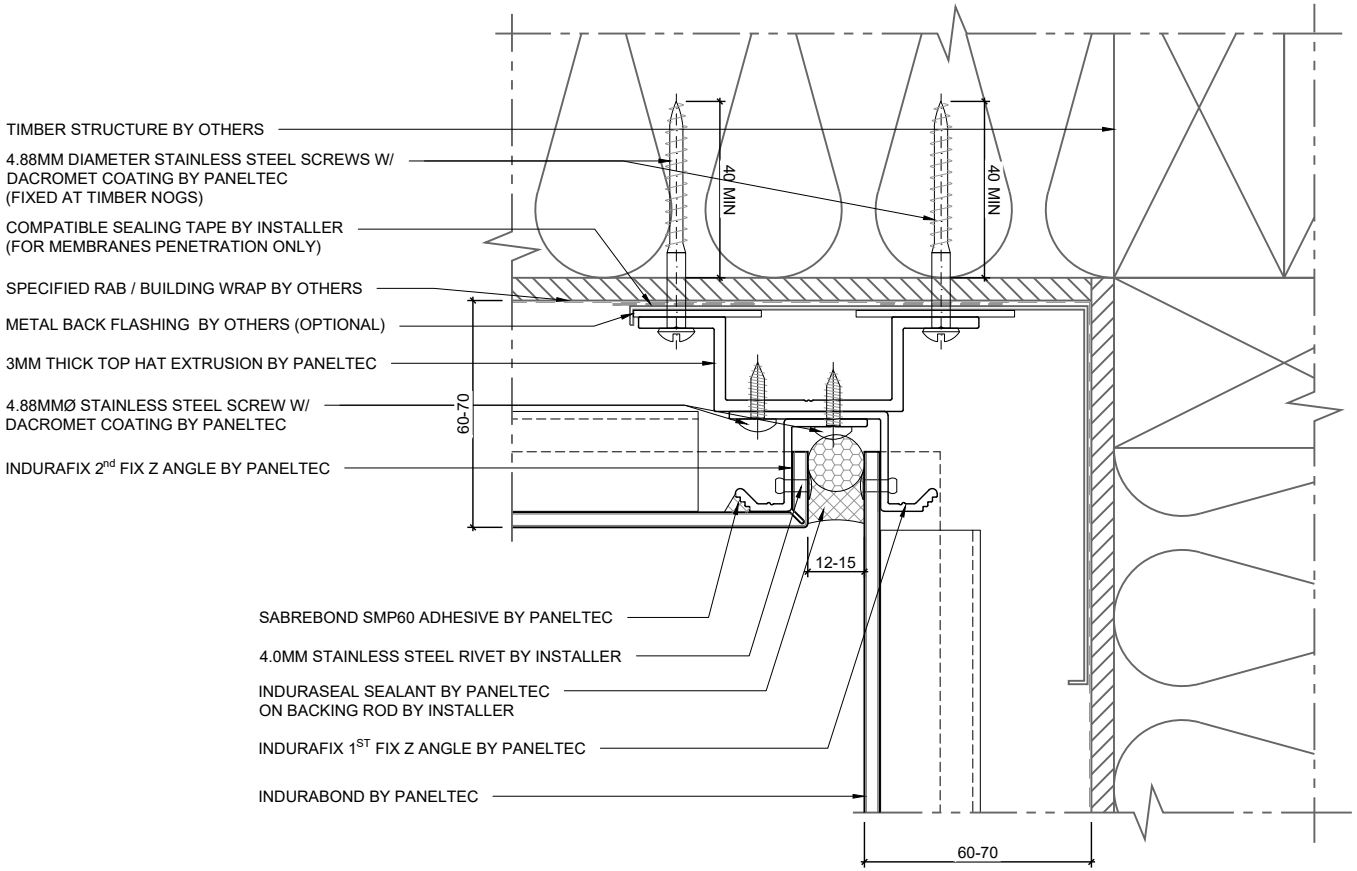
4. INTER-STOREY JOINT (SECTION DETAIL)

Drawing Scale 1:2



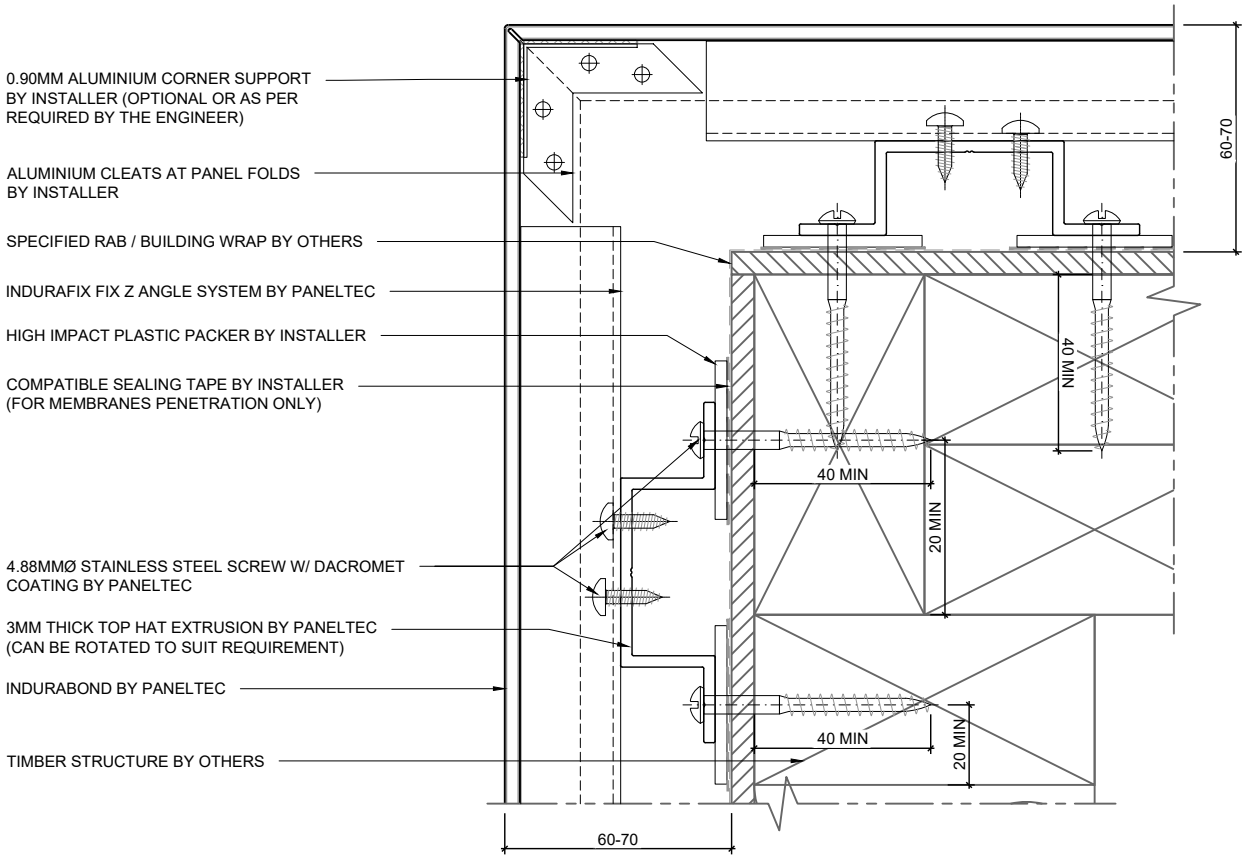
5. INTERNAL PANEL CORNER (PLAN DETAIL)

Drawing Scale 1:2



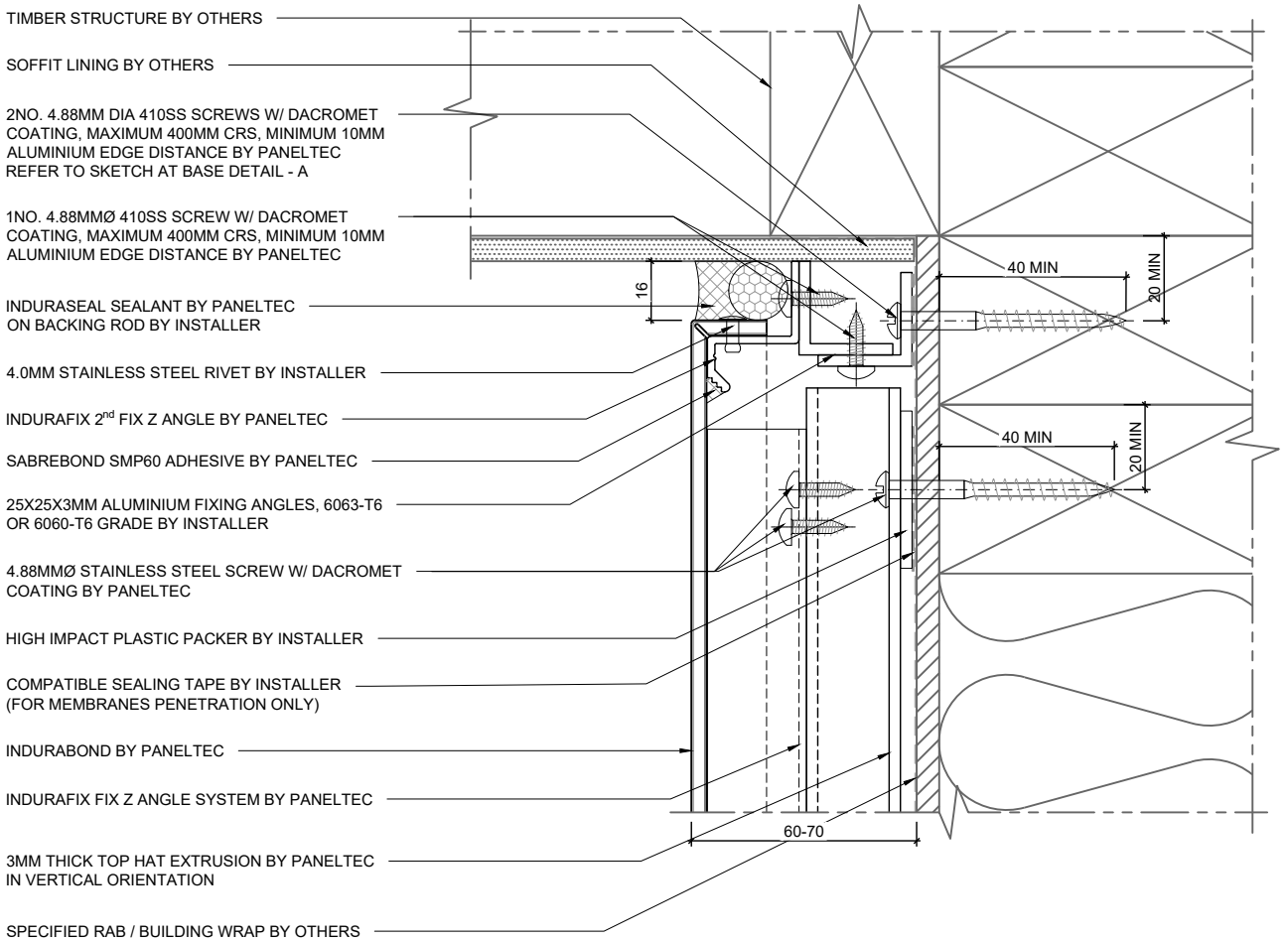
6. EXTERNAL PANEL CORNER (PLAN DETAIL)

Drawing Scale 1:2



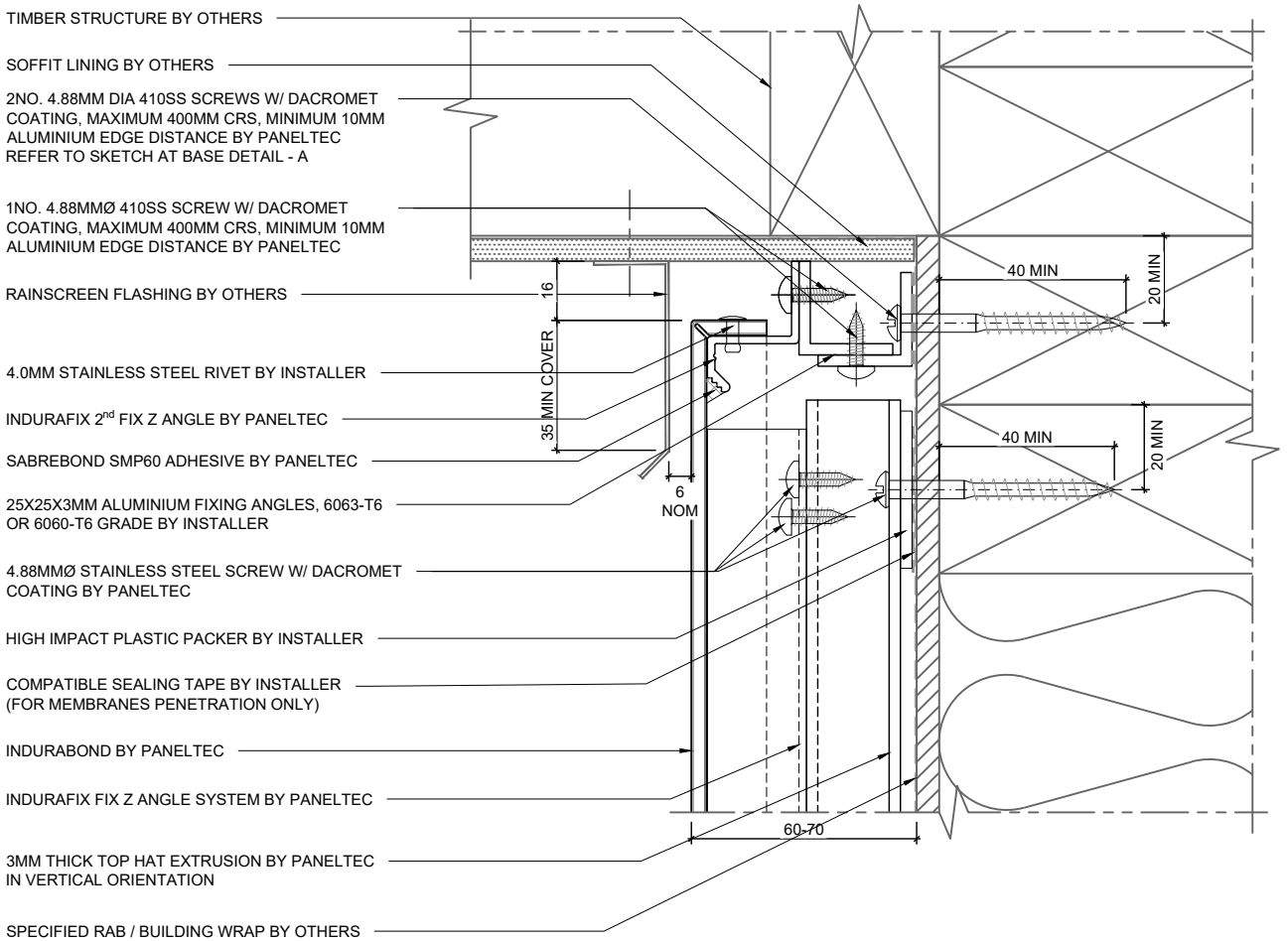
7. WALL TO SOFFIT - A (SECTION DETAIL)

Drawing Scale 1:2



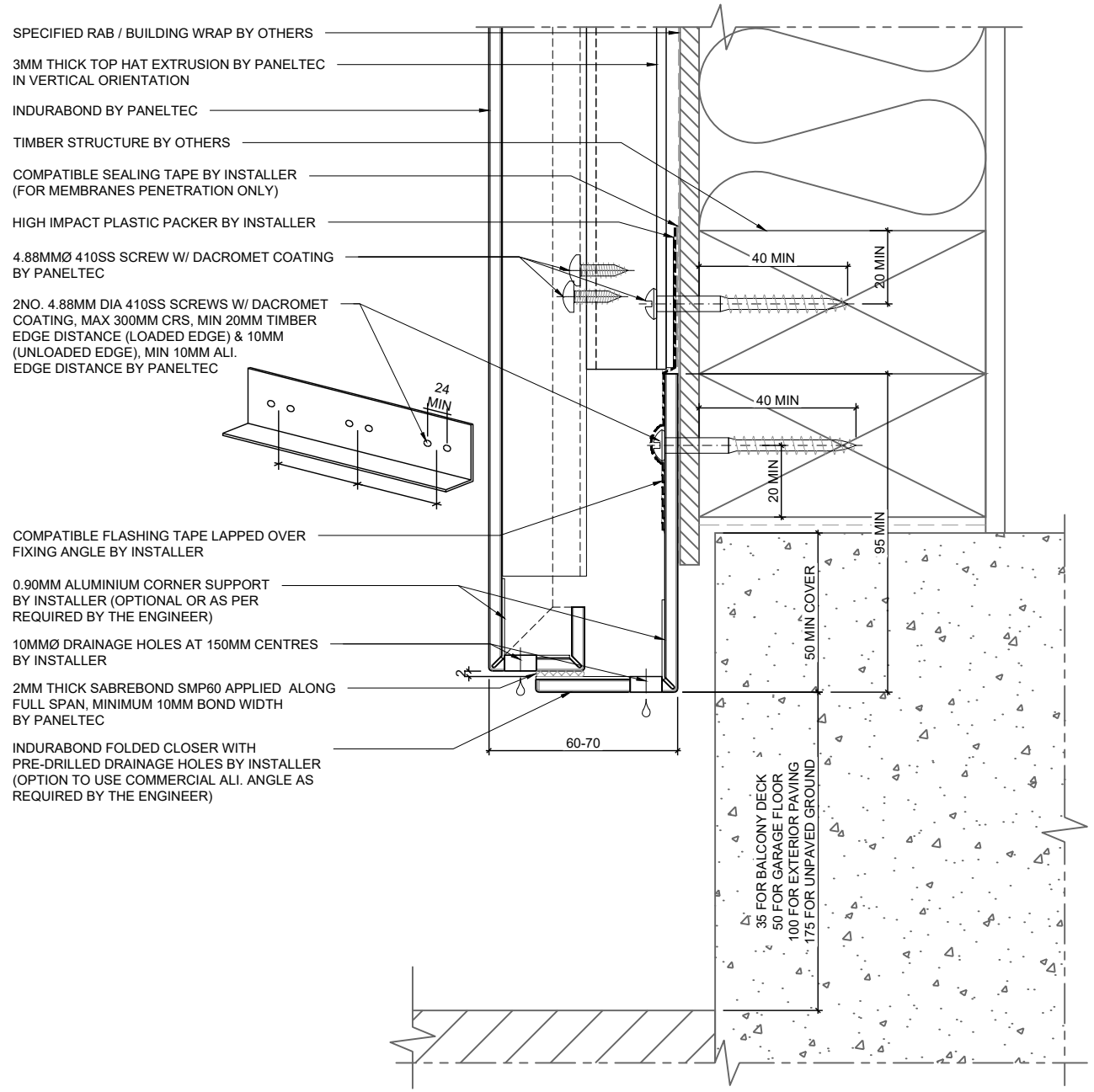
8. WALL TO SOFFIT - B (SECTION DETAIL)

Drawing Scale 1:2



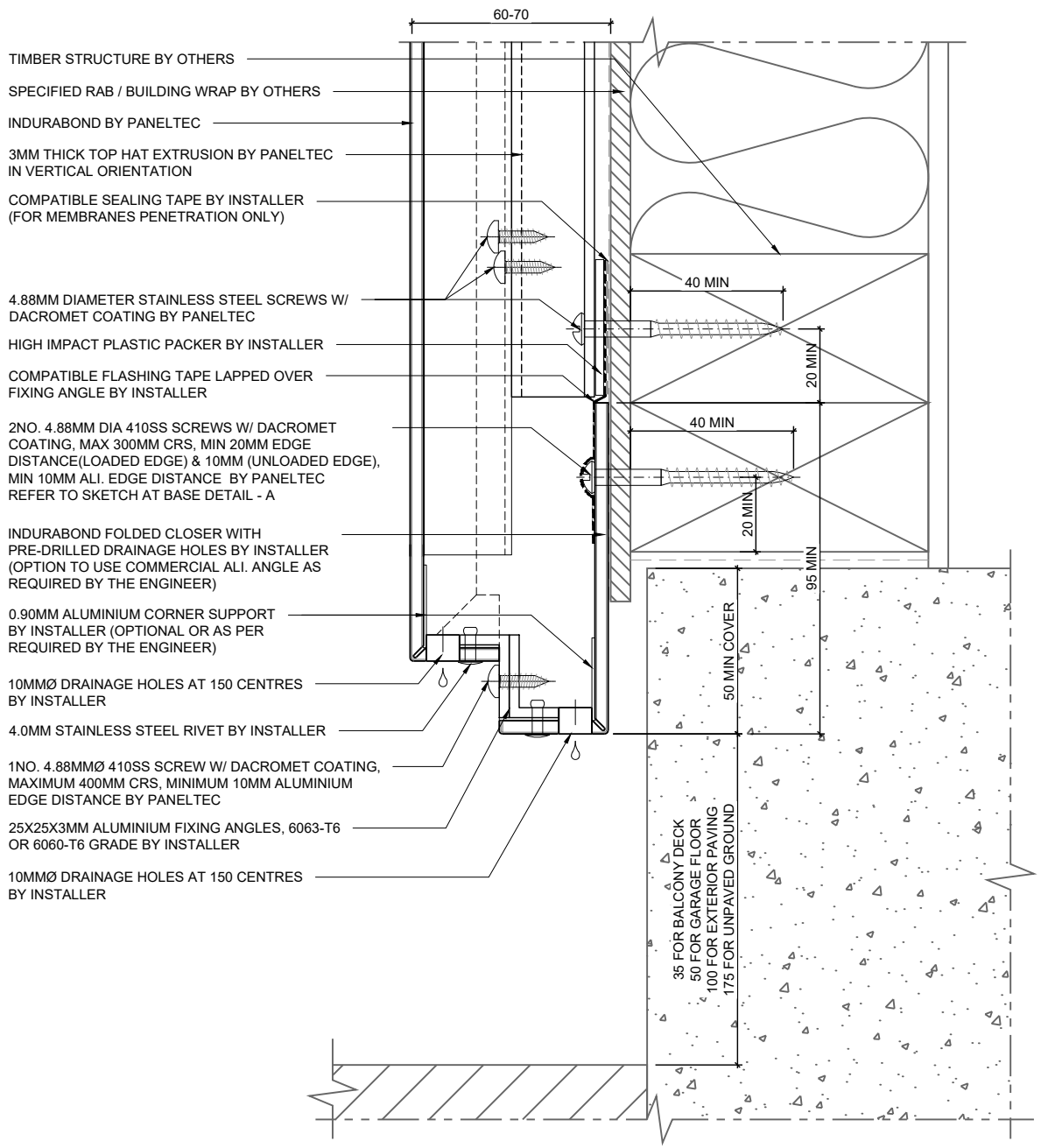
9. BASE DETAIL - A (SECTION DETAIL)

Drawing Scale 1:2



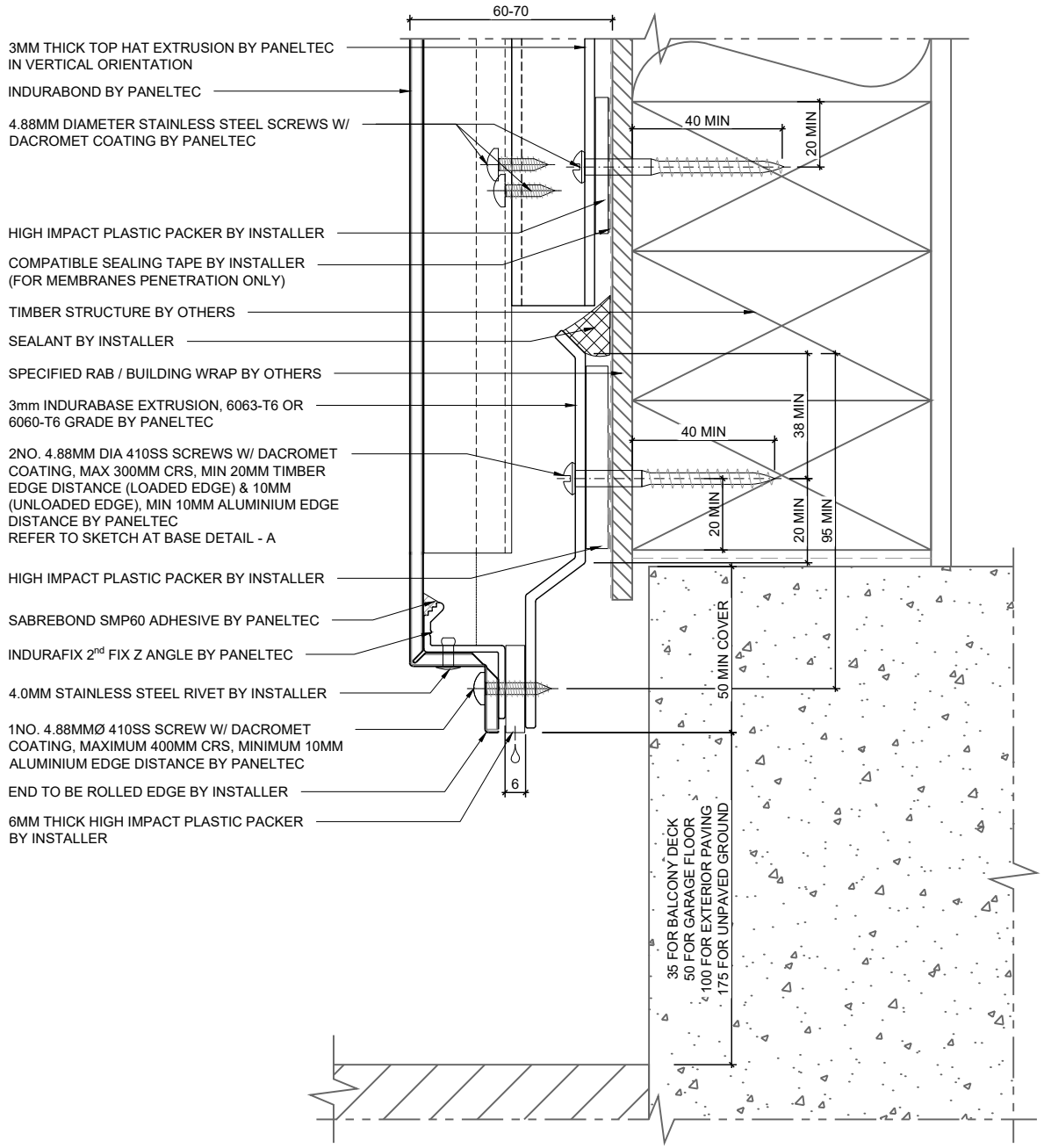
10. BASE DETAIL - B (SECTION DETAIL)

Drawing Scale 1:2



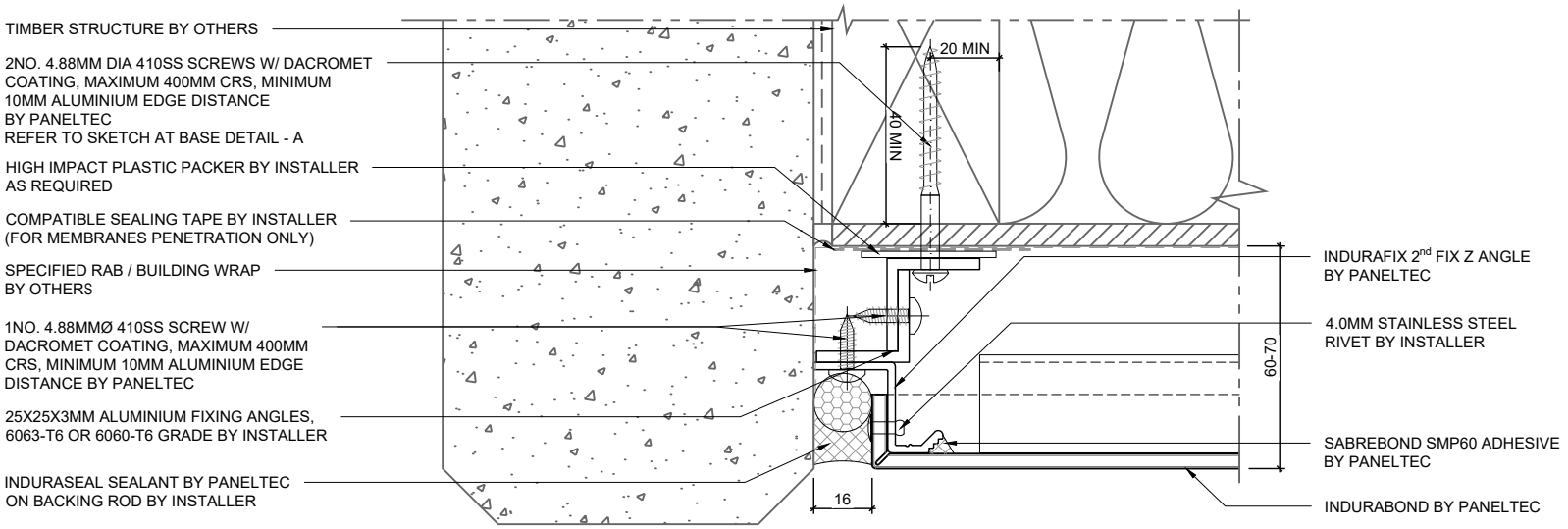
11. BASE DETAIL - C (SECTION DETAIL)

Drawing Scale 1:2



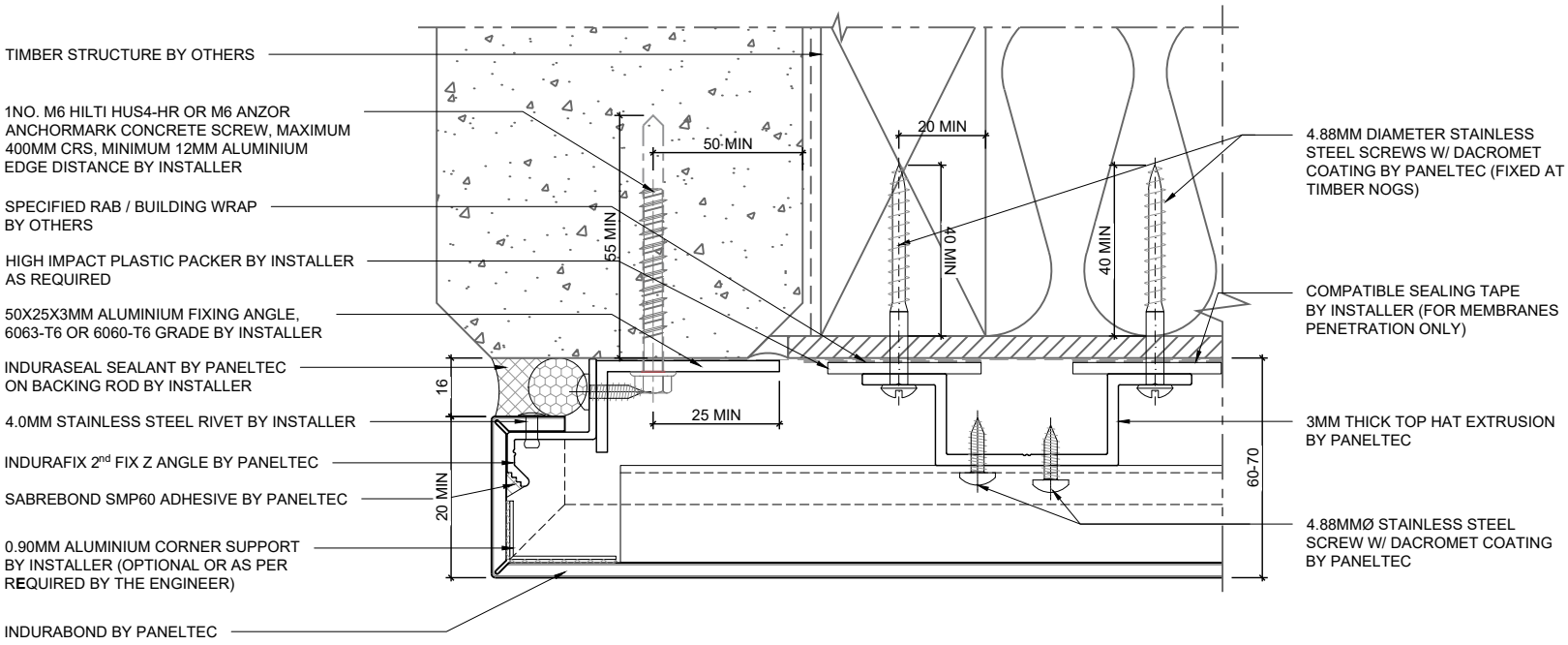
12. PRECAST WALL - A (PLAN DETAIL)

Drawing Scale 1:2



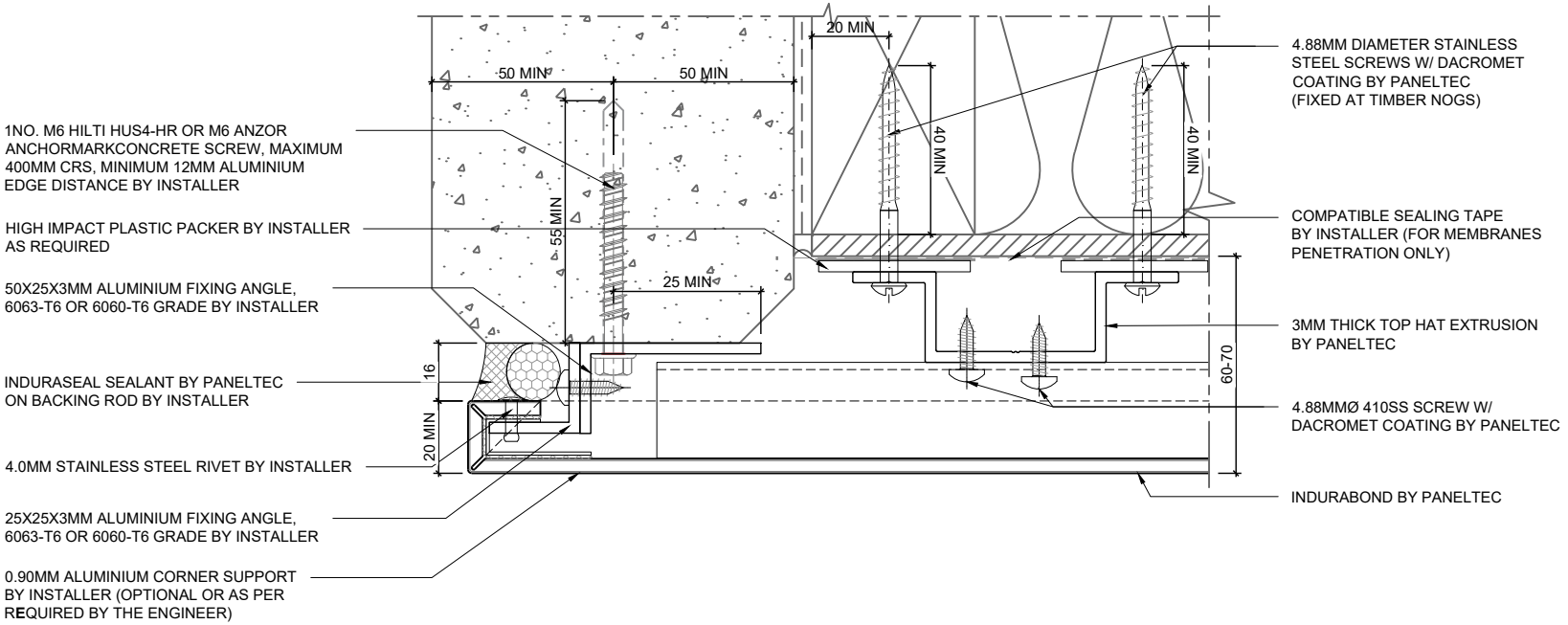
13. PRECAST WALL - B (PLAN DETAIL)

Drawing Scale 1:2



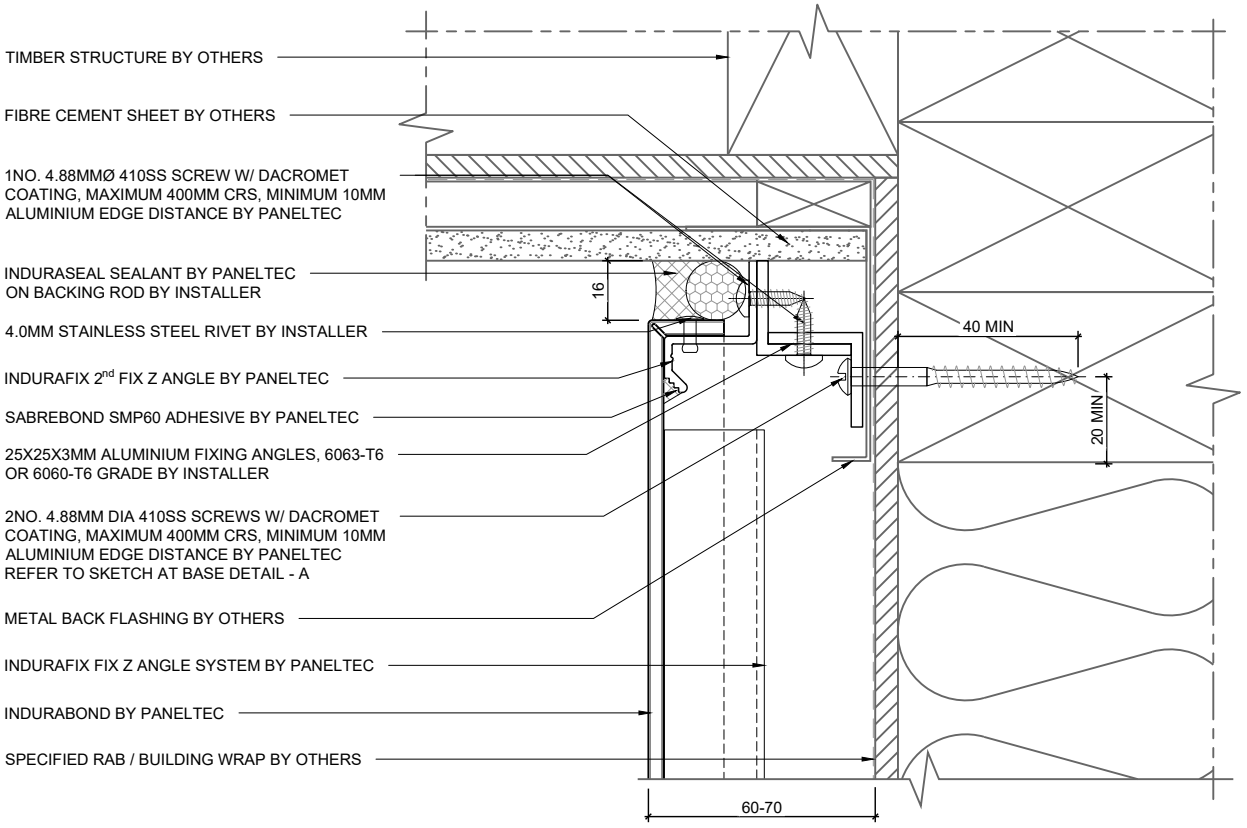
14. PRECAST WALL - C (PLAN DETAIL)

Drawing Scale 1:2



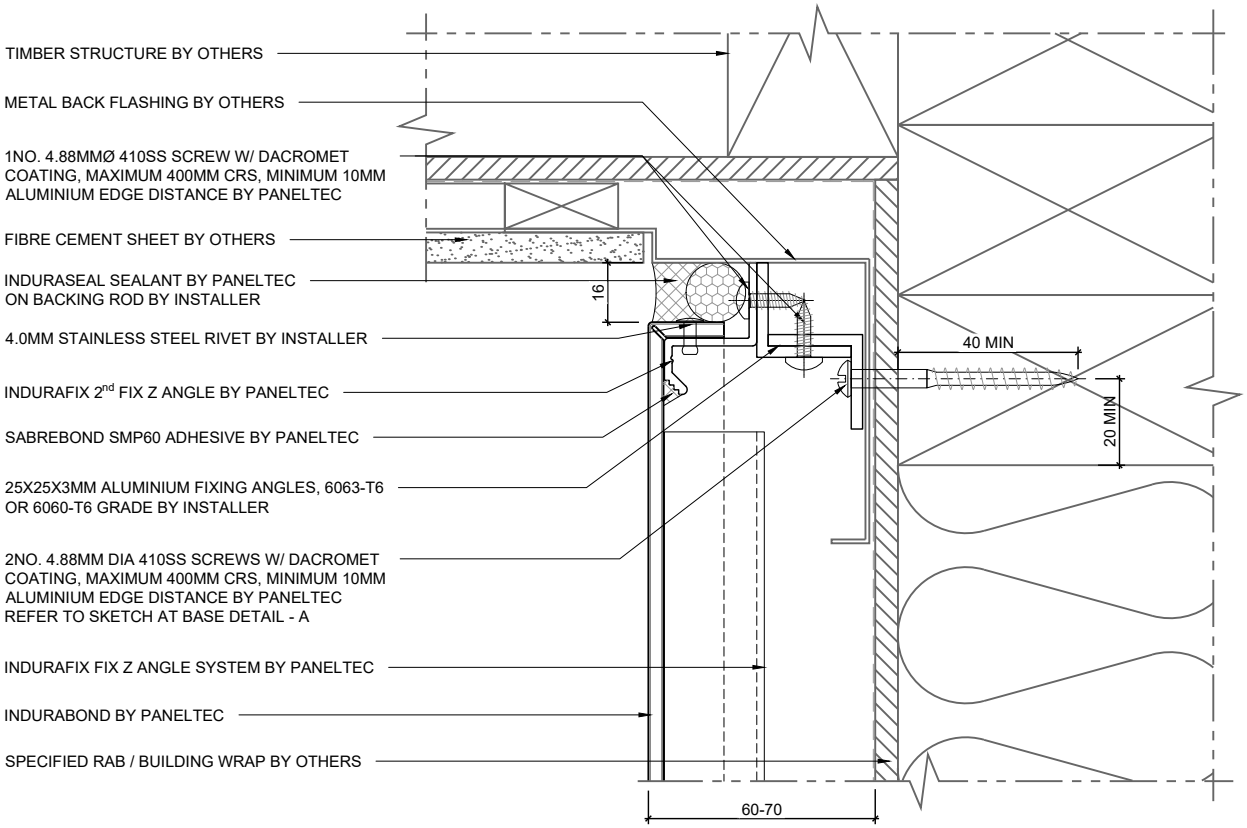
15. FIBRE CEMENT INTERNAL CORNER - A (PLAN DETAIL)

Drawing Scale 1:2



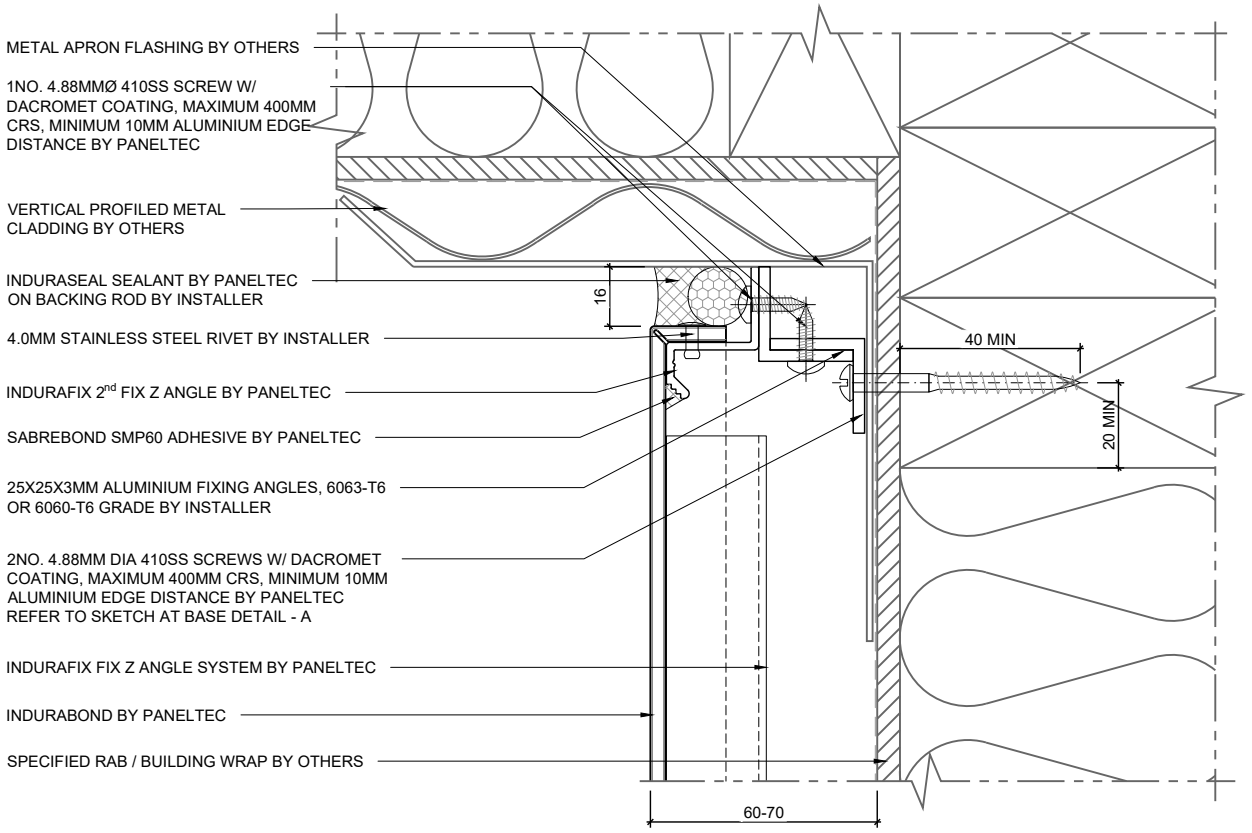
16. FIBRE CEMENT INTERNAL CORNER - B (PLAN DETAIL)

Drawing Scale 1:2



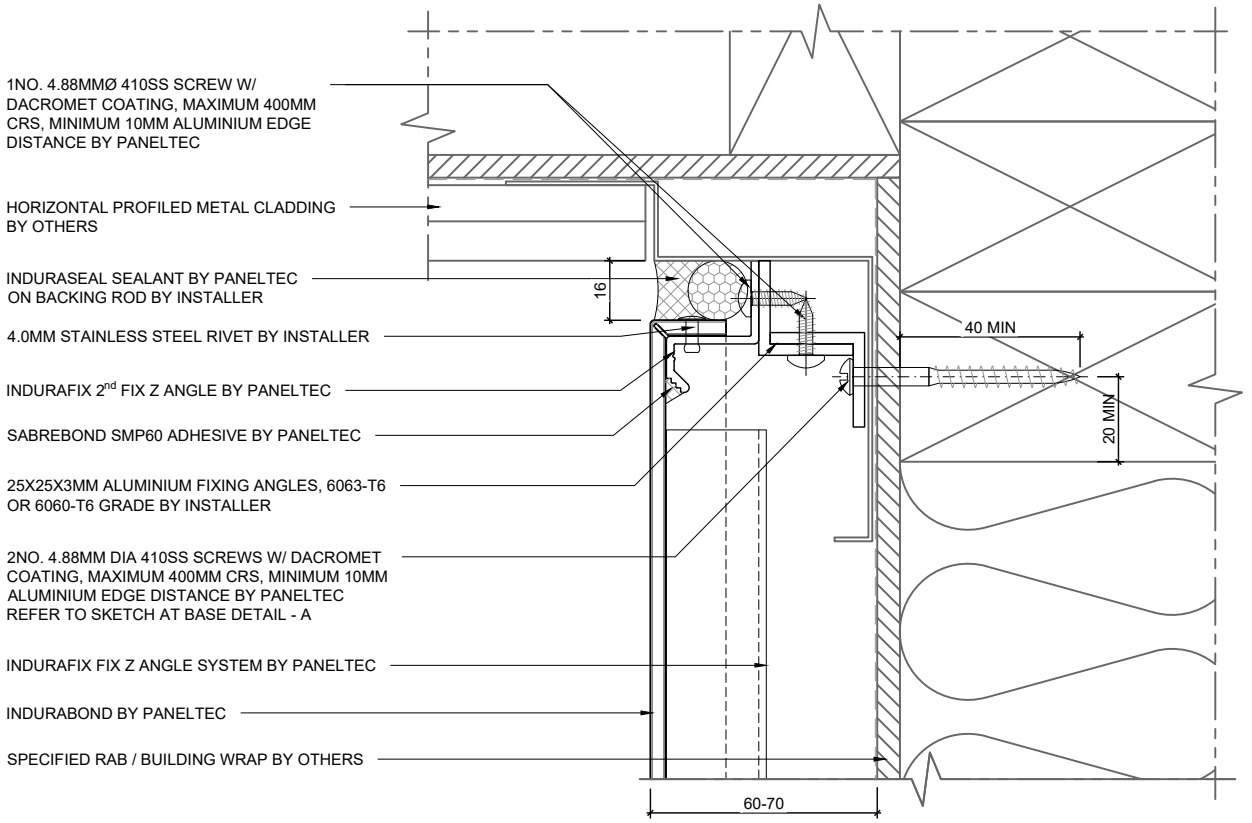
17. VERTICAL PROFILED CLADDING INTERNAL CORNER (PLAN DETAIL)

Drawing Scale 1:2



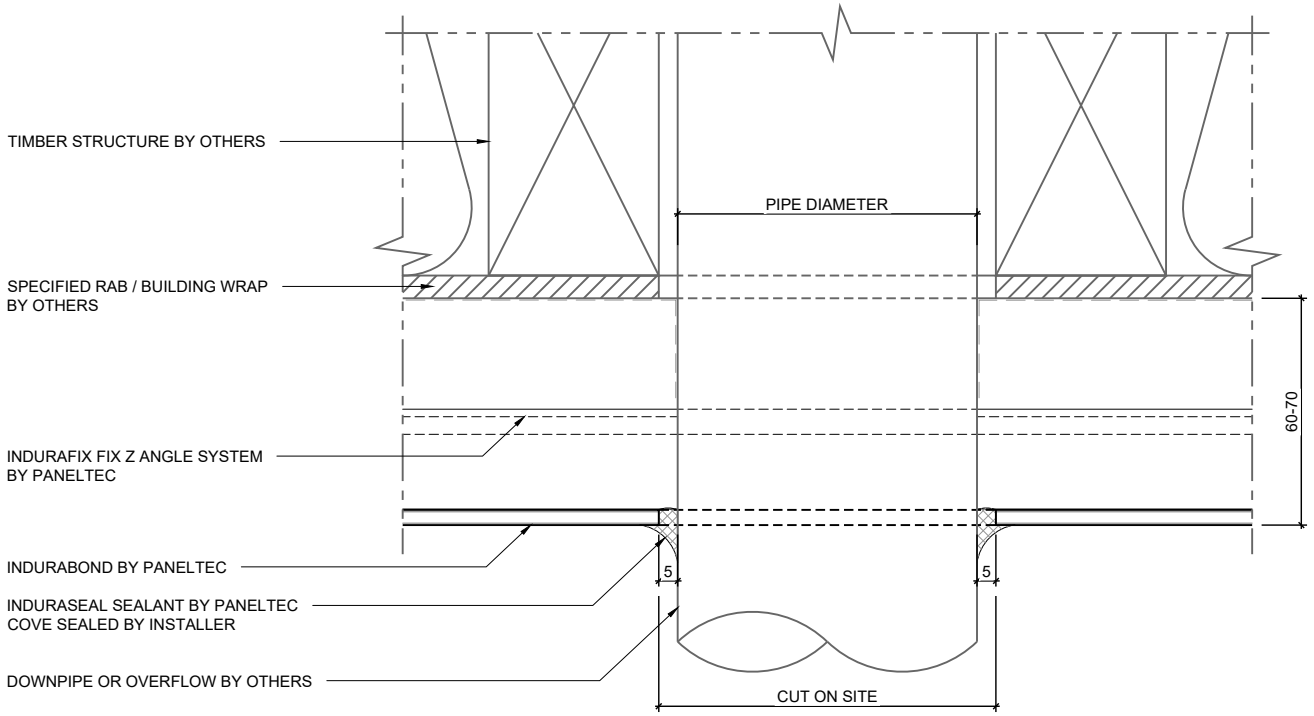
18. HORIZONTAL PROFILED CLADDING INTERNAL CORNER (PLAN DETAIL)

Drawing Scale 1:2



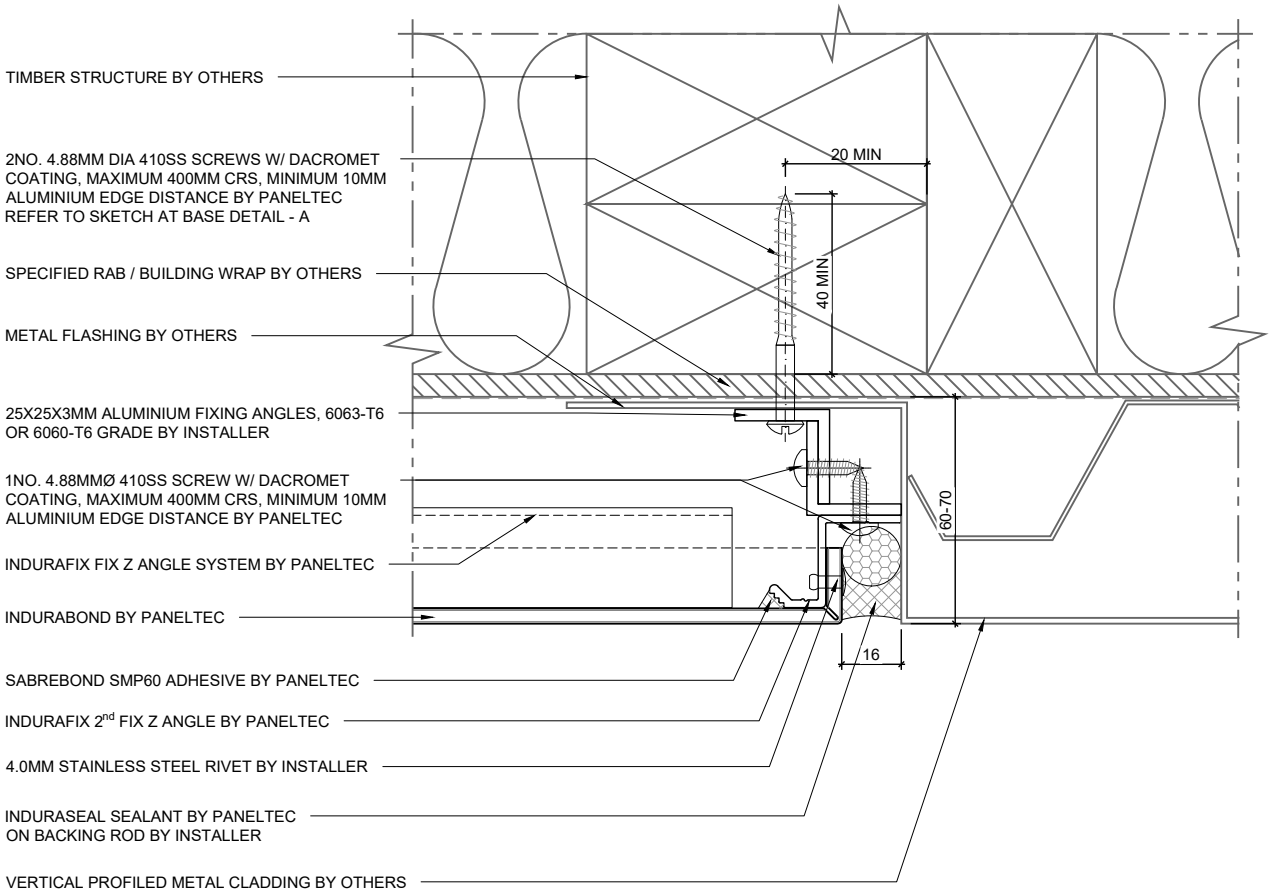
19. PIPE PENETRATION @ SOFFIT (SECTION DETAIL)

Drawing Scale 1:2



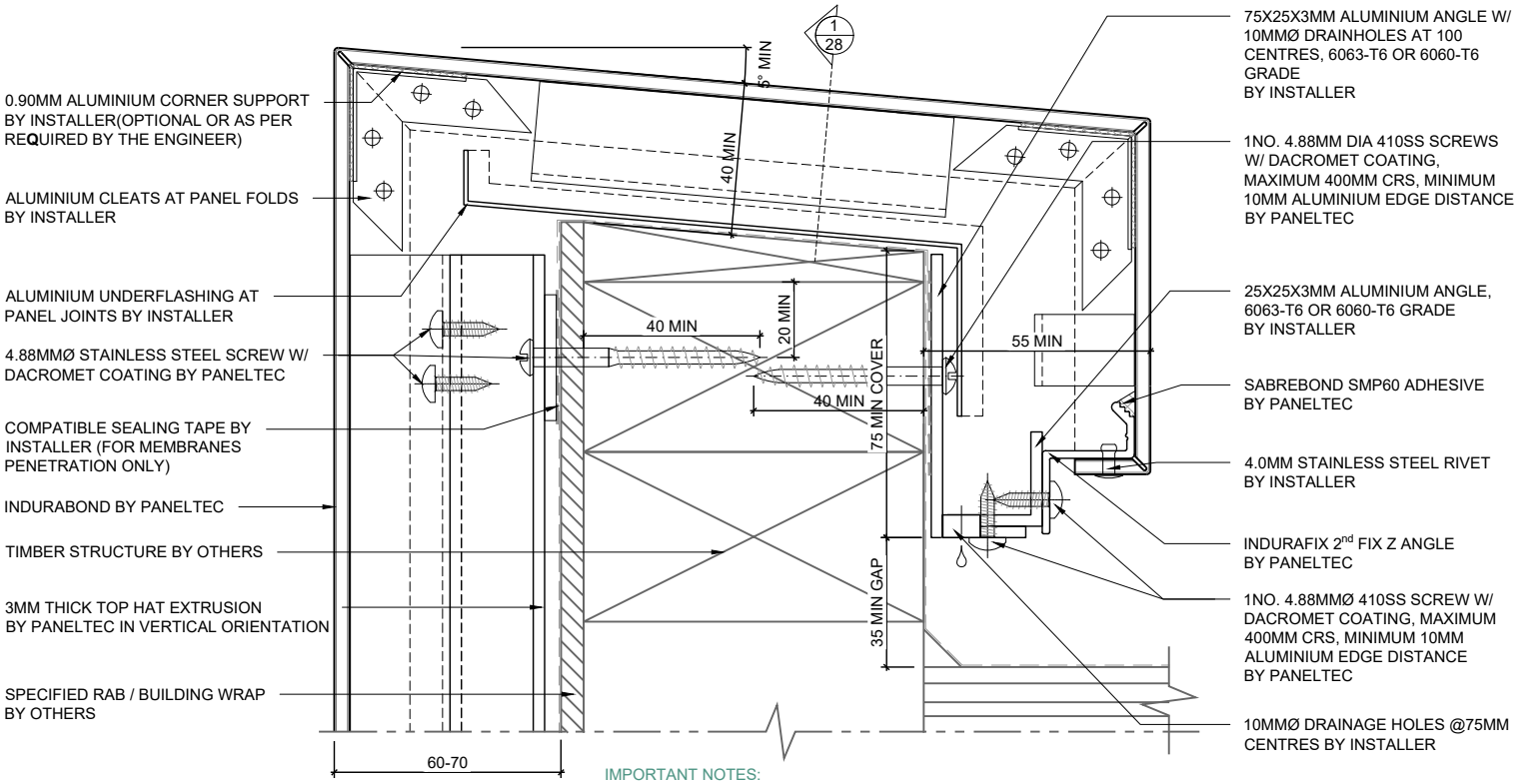
20. VERTICAL PROFILED METAL JUNCTION (PLAN DETAIL)

Drawing Scale 1:2



21. PARAPET OPTION - A (SECTION DETAIL)

Drawing Scale 1:2

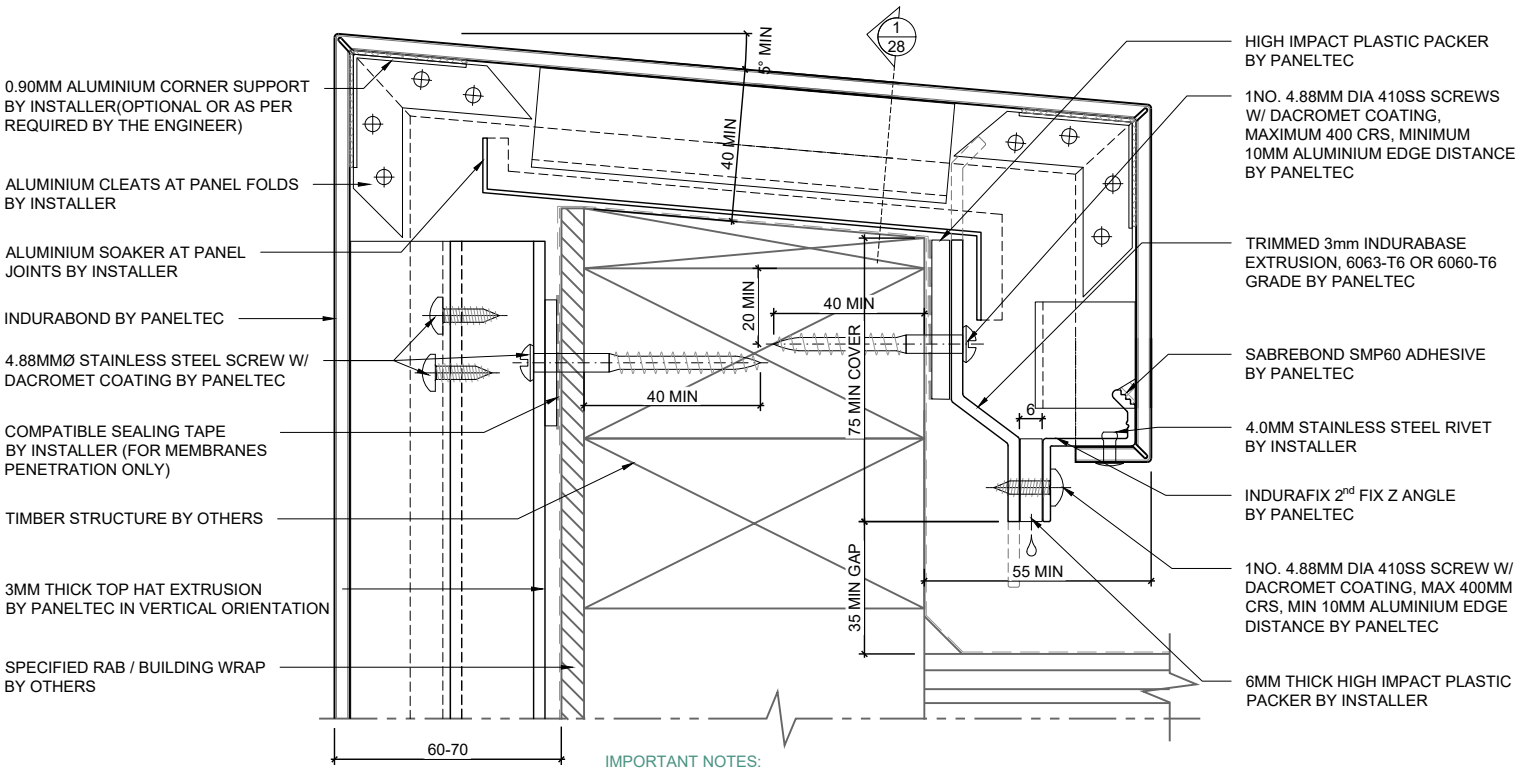


IMPORTANT NOTES:

- PARAPET DETAIL OPTION IS NOT SUITABLE FOR ABSEILING LOAD.

22. PARAPET OPTION - B (SECTION DETAIL)

Drawing Scale 1:2

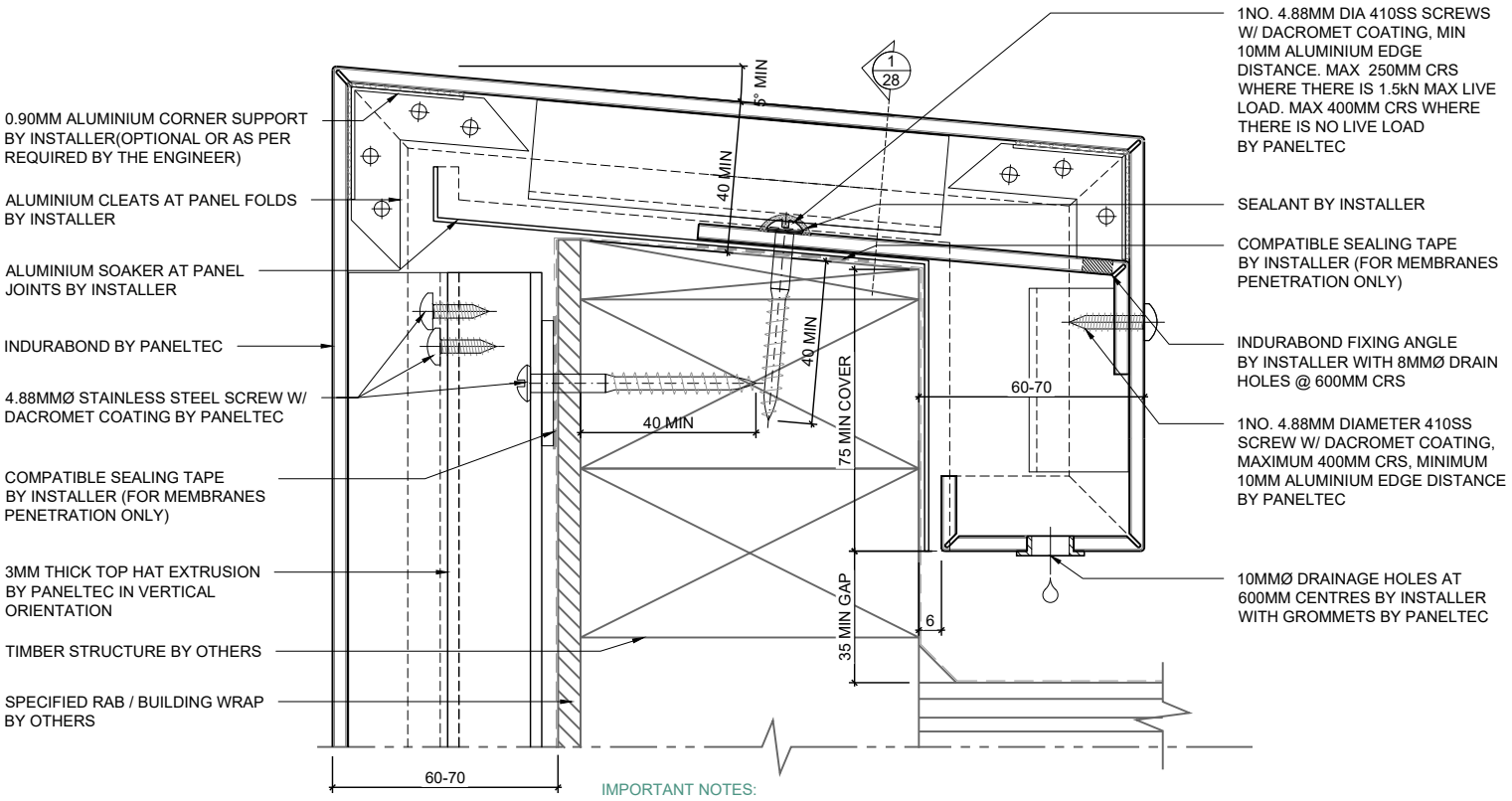


IMPORTANT NOTES:

- PARAPET DETAIL OPTION IS NOT SUITABLE FOR ABSEILING
- PARAPET DETAIL OPTION IS APPLICABLE ONLY WHERE THERE IS NO LIVE LOAD.

23. PARAPET OPTION - C (SECTION DETAIL)

Drawing Scale 1:2

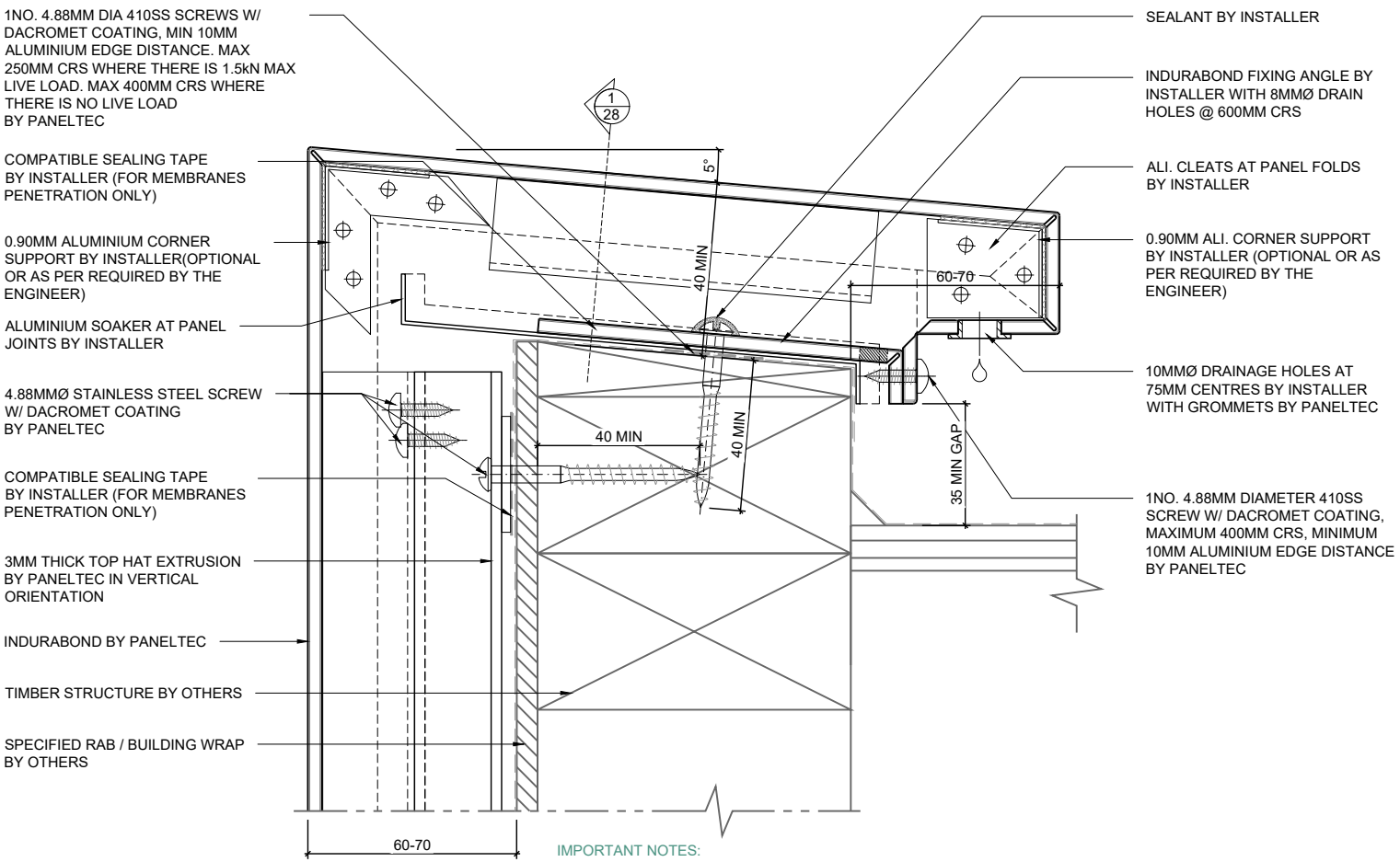


IMPORTANT NOTES:

- PARAPET DETAIL OPTION IS NOT SUITABLE FOR ABSEILING LOAD

24. PARAPET OPTION D - w/ minimal upstand (SECTION DETAIL)

Drawing Scale 1:2

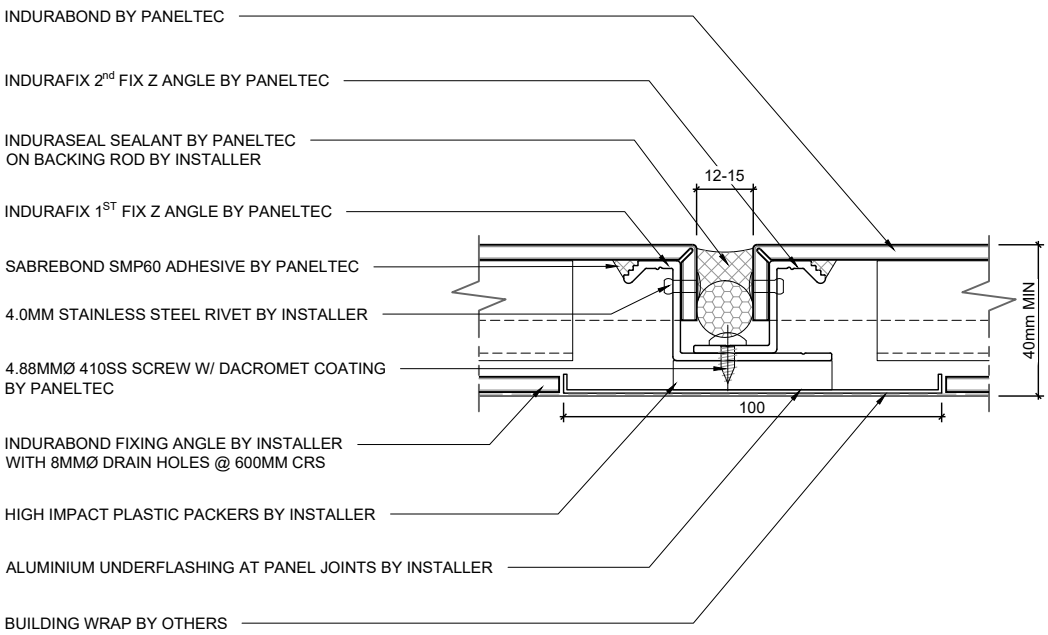


IMPORTANT NOTES:

A. PARAPET DETAIL OPTION IS NOT SUITABLE FOR ABSEILING LOAD.
B. FOR LOW ROOF UPSTAND ONLY.
C. THIS DETAIL DOES NOT COMPLY WITH THE BUILDING CODE REQUIREMENTS BUT MAY BE CONSIDERED AN ACCEPTABLE ALTERNATIVE SOLUTION.
D. IT IS THE RESPONSIBILITY OF THE BUILDER OR ARCHITECT TO ENSURE THAT THIS DETAIL IS SATISFACTORY. SPECIFIC INSTRUCTIONS ARE REQUIRED FOR ITS IMPLEMENTATION.

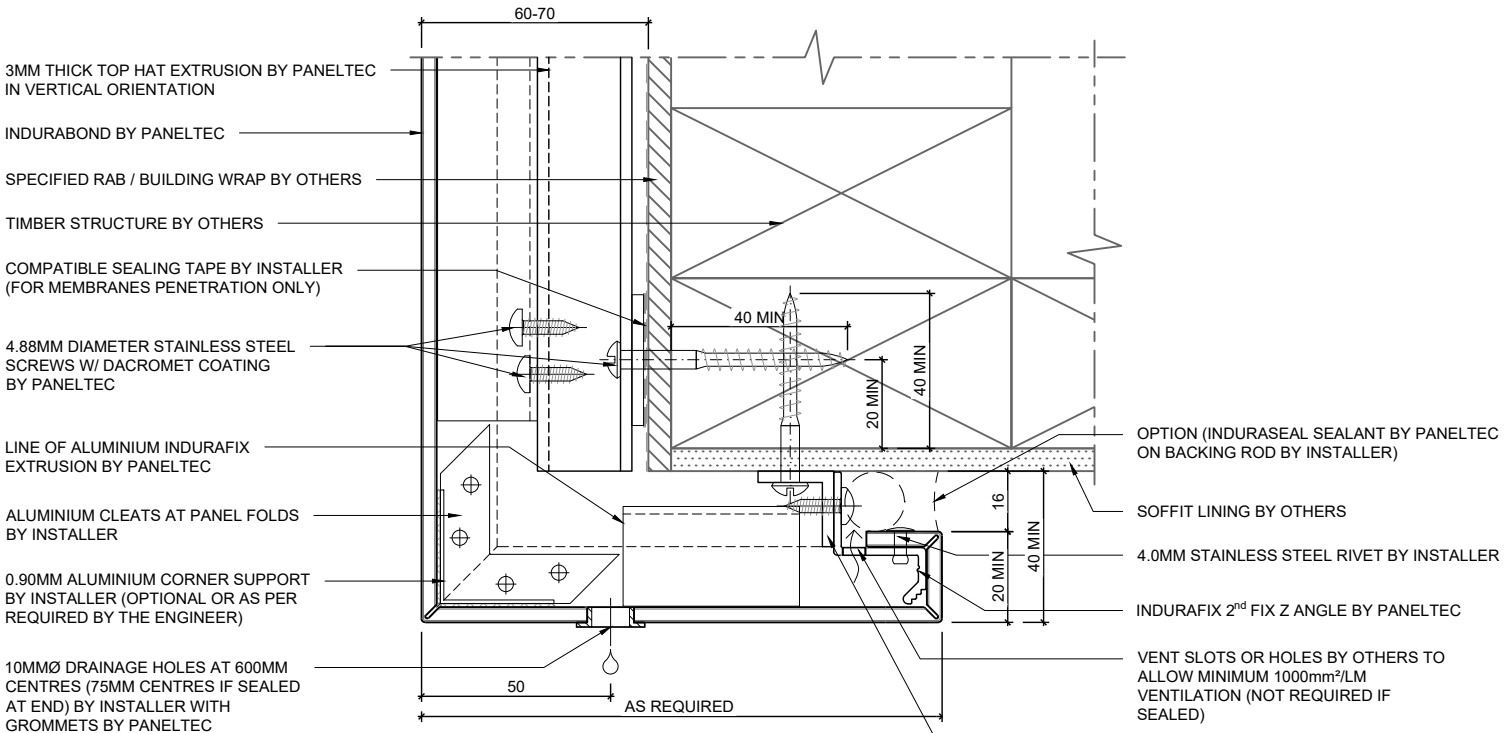
25. PARAPET TOP JOINT (SECTION DETAIL)

Drawing Scale 1:2



26. FASCIA TO SOFFIT - A (SECTION DETAIL)

Drawing Scale 1:2

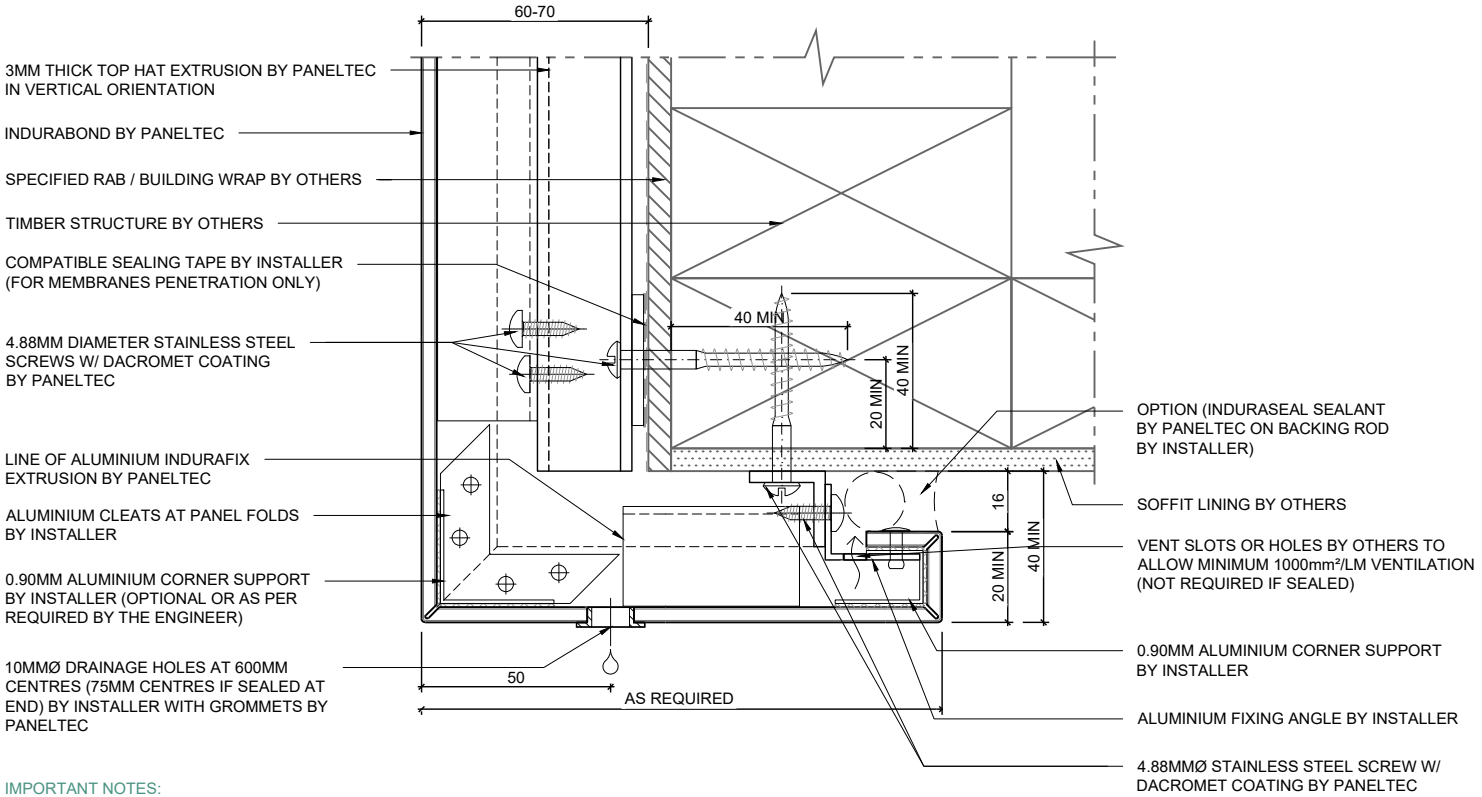


IMPORTANT NOTES:

- RECOMMENDED TO HAVE THE PANEL BOTTOM SLOPING @1.5° TOWARDS THE SIDE WHERE THE DRAIN HOLE IS LOCATED TO AVOID RISK OF PONDING.

27. FASCIA TO SOFFIT - B (SECTION DETAIL)

Drawing Scale 1:2

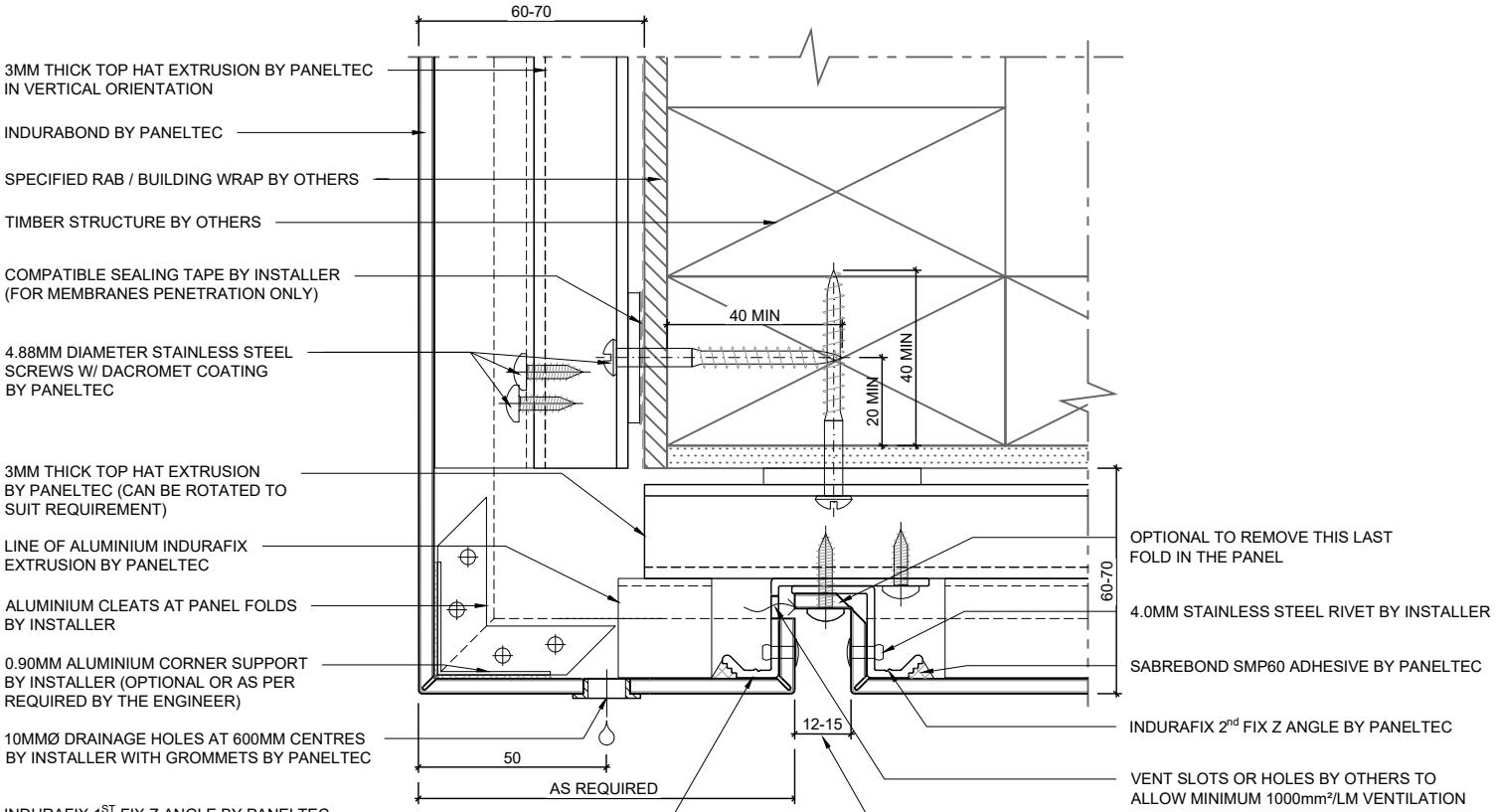


IMPORTANT NOTES:

- RECOMMENDED TO HAVE THE PANEL BOTTOM SLOPING @1.5° TOWARDS THE SIDE WHERE THE DRAIN HOLE IS LOCATED TO AVOID RISK OF PONDING.

28. FASCIA TO SOFFIT - C (SECTION DETAIL)

Drawing Scale 1:2

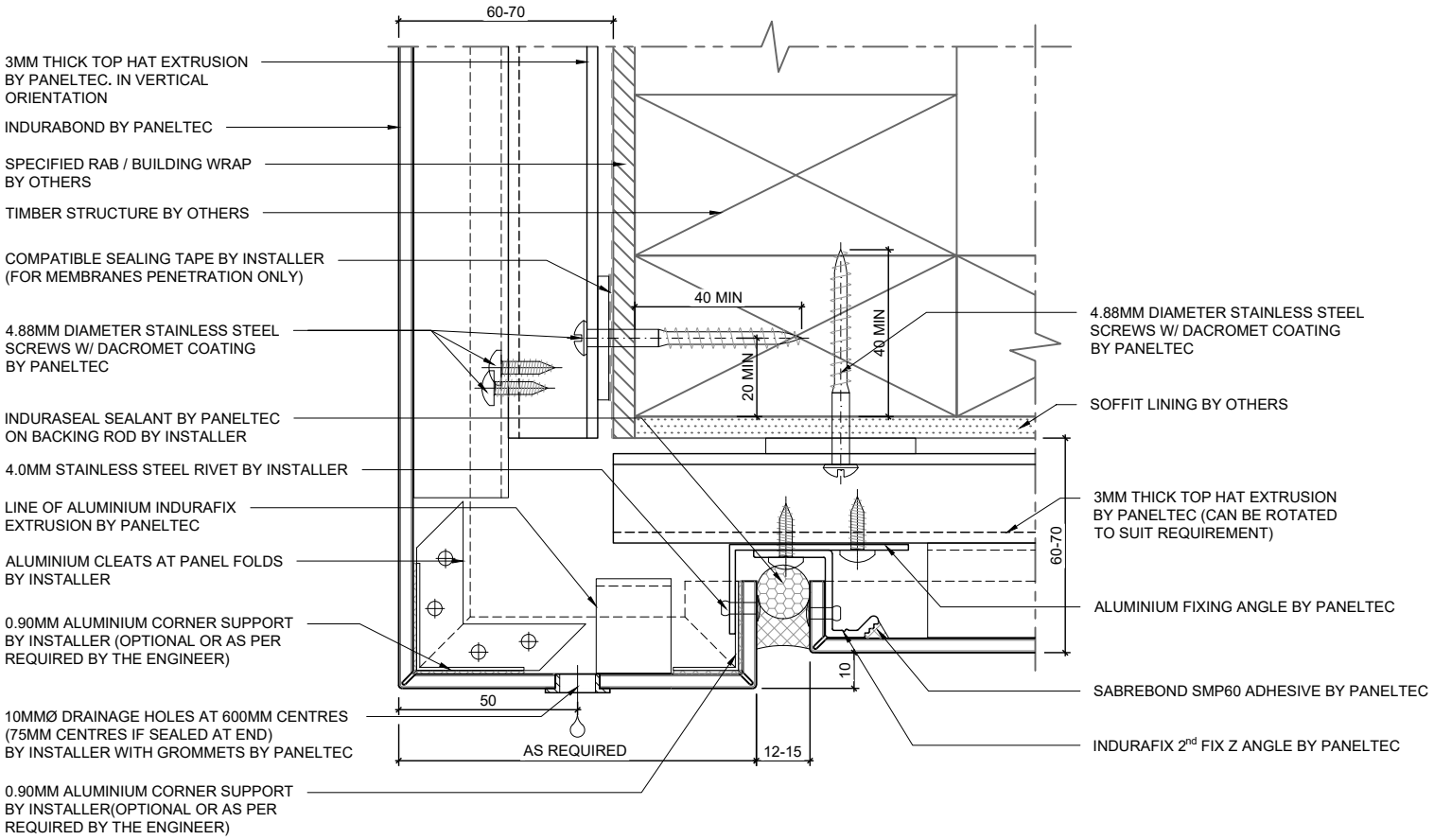


IMPORTANT NOTES:

- RECOMMENDED TO HAVE THE PANEL BOTTOM SLOPING @1.5° TOWARDS THE SIDE WHERE THE DRAIN HOLE IS LOCATED TO AVOID RISK OF PONDING.

29. FASCIA TO SOFFIT - D (SECTION DETAIL)

Drawing Scale 1:2

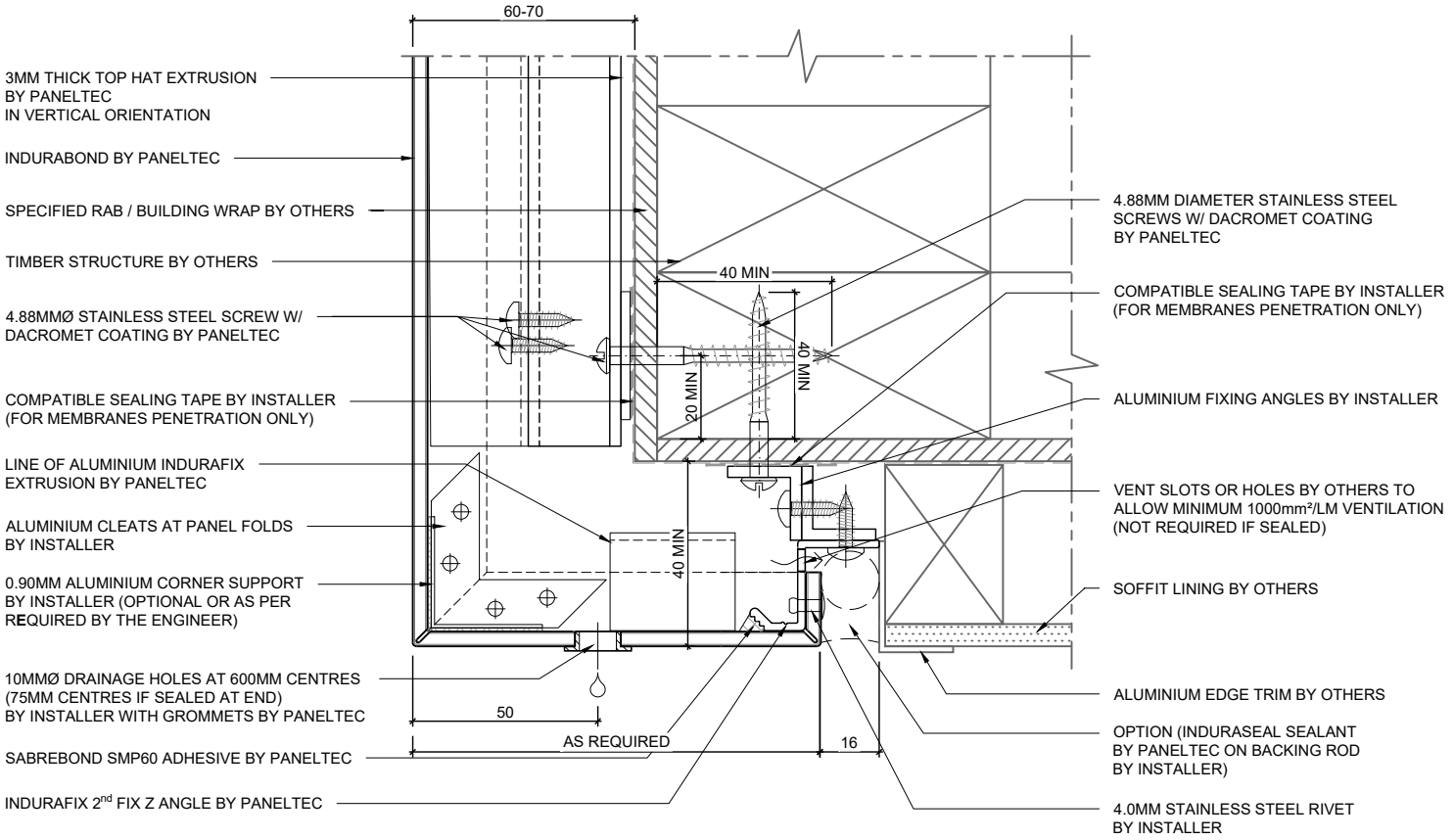


IMPORTANT NOTES:

- RECOMMENDED TO HAVE THE PANEL BOTTOM SLOPING @1.5° TOWARDS THE SIDE WHERE THE DRAIN HOLE IS LOCATED TO AVOID RISK OF PONDING.

30. FASCIA TO SOFFIT - E (SECTION DETAIL)

Drawing Scale 1:2

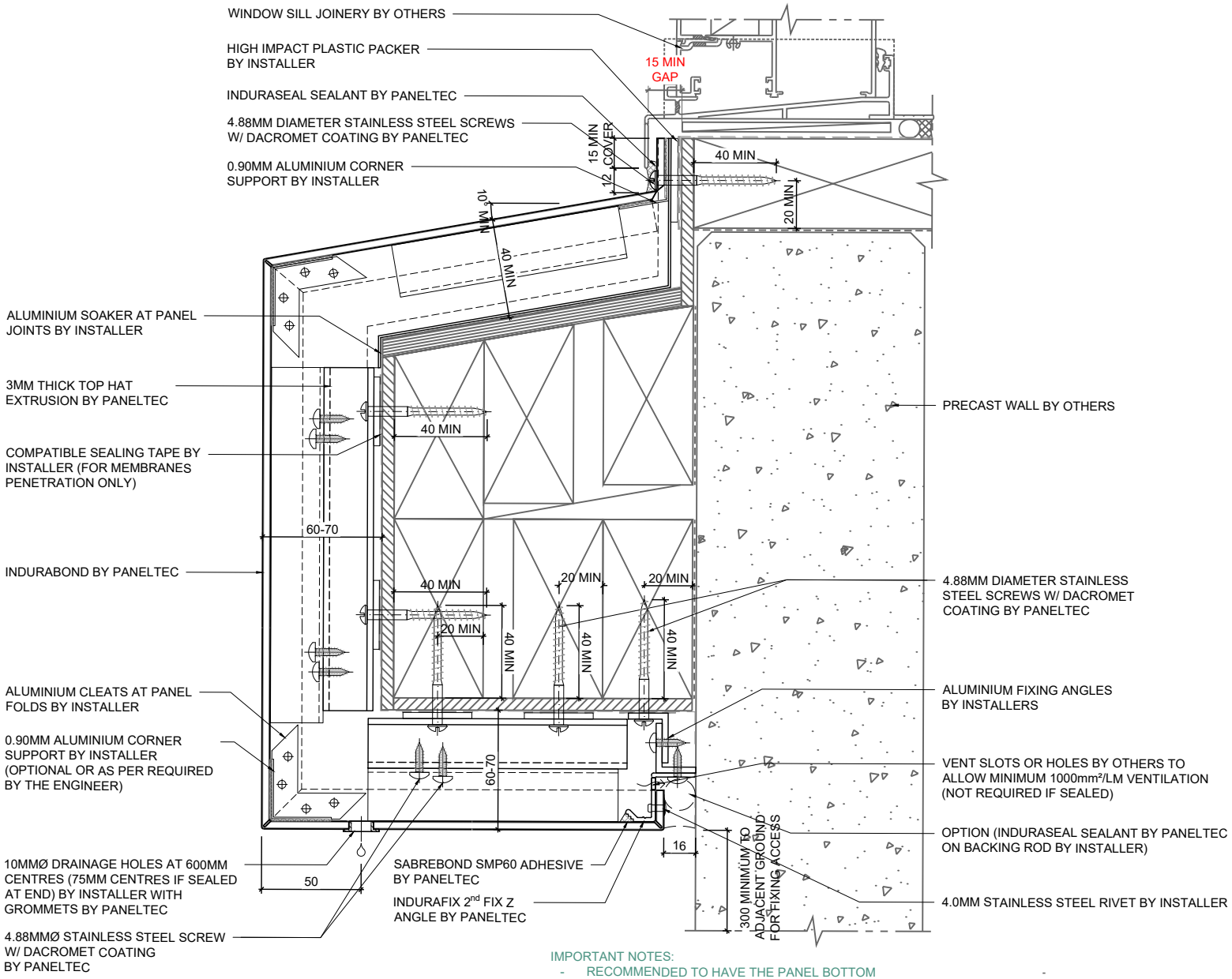


IMPORTANT NOTES:

- RECOMMENDED TO HAVE THE PANEL BOTTOM SLOPING @1.5° TOWARDS THE SIDE WHERE THE DRAIN HOLE IS LOCATED TO AVOID RISK OF PONDING.

31. EYEBROW SILL (SECTION DETAIL)

Drawing Scale 1:2

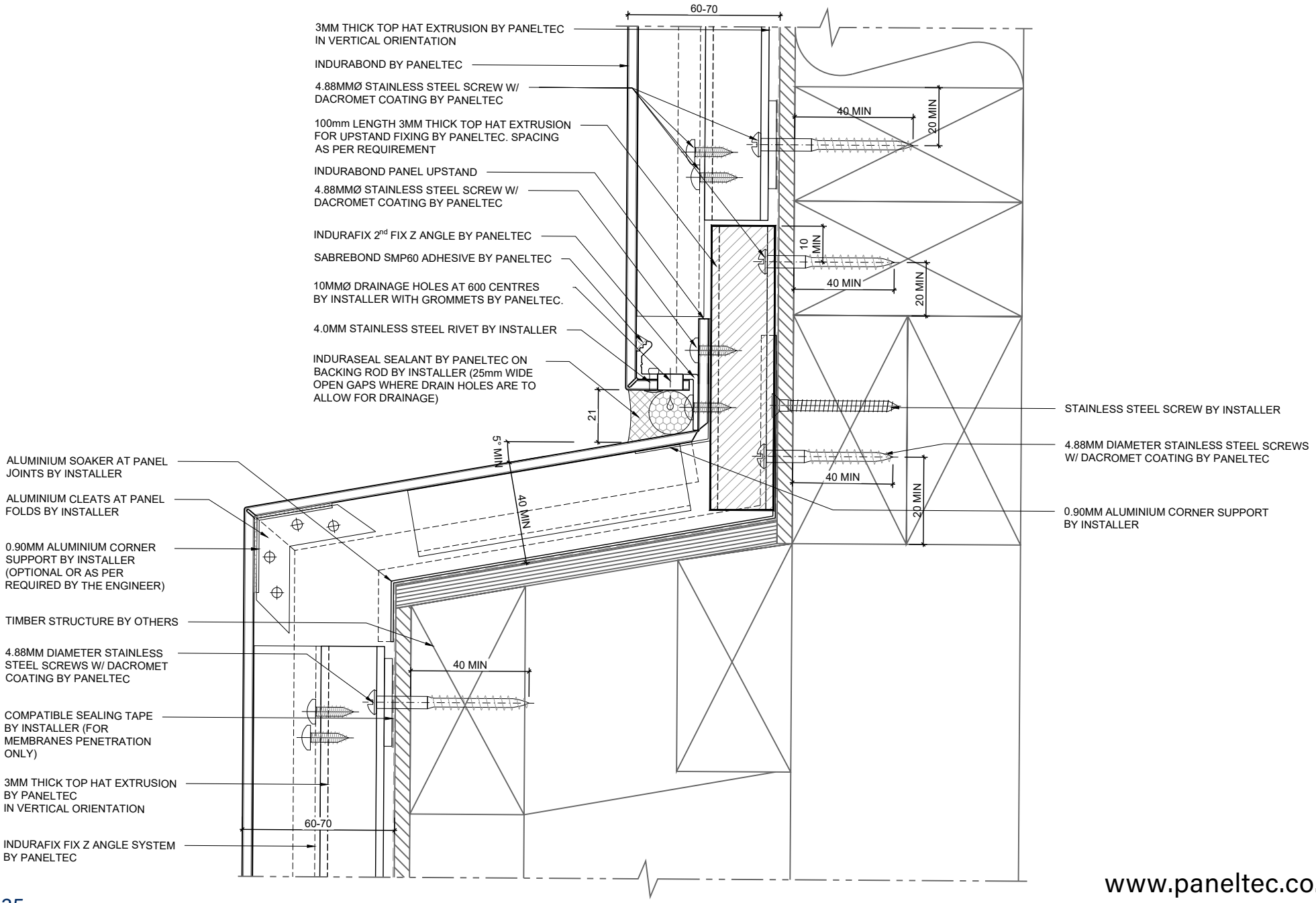


IMPORTANT NOTES:

- RECOMMENDED TO HAVE THE PANEL BOTTOM SLOPING @1.5° TOWARDS THE SIDE WHERE THE DRAIN HOLE IS LOCATED TO AVOID RISK OF PONDING.

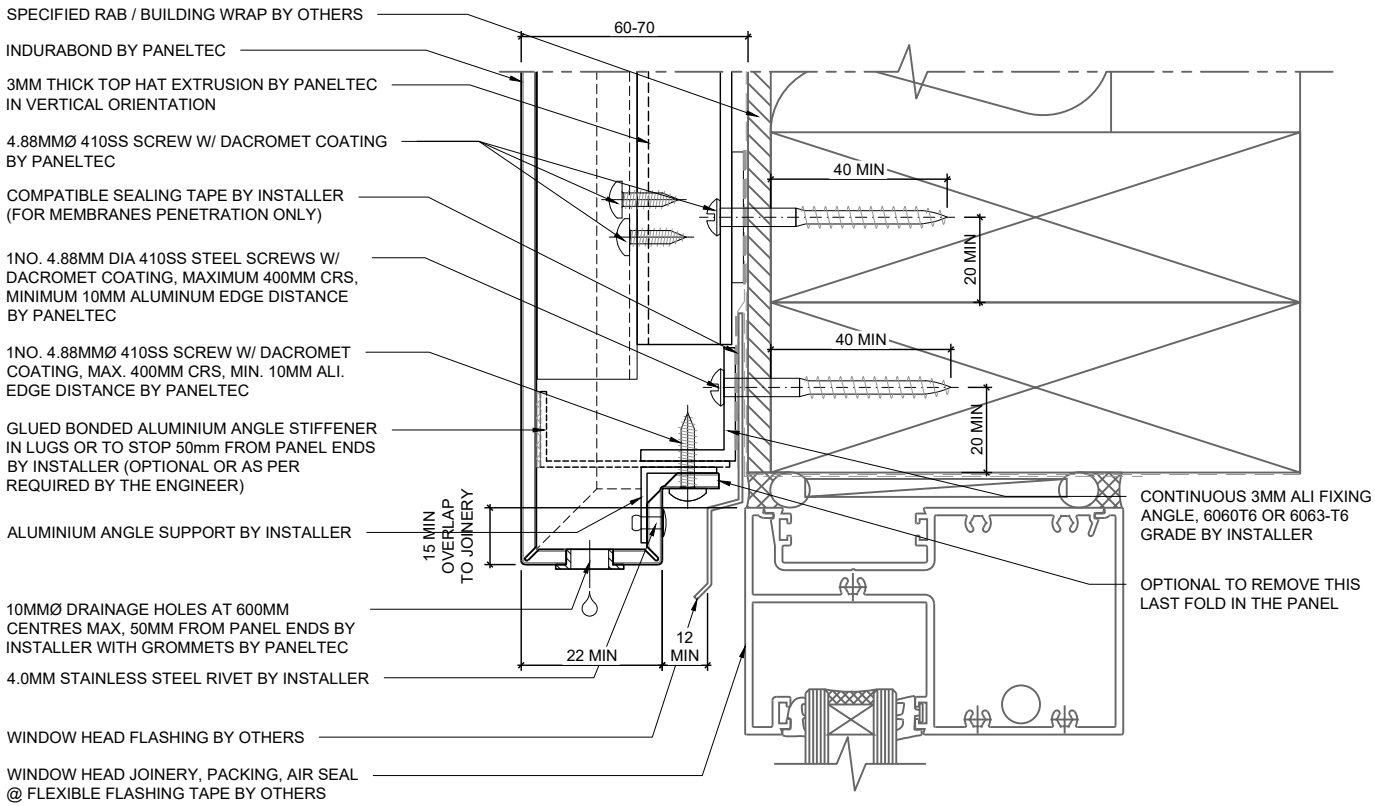
32. TYPICAL UPSTAND (SECTION DETAIL)

Drawing Scale 1:2



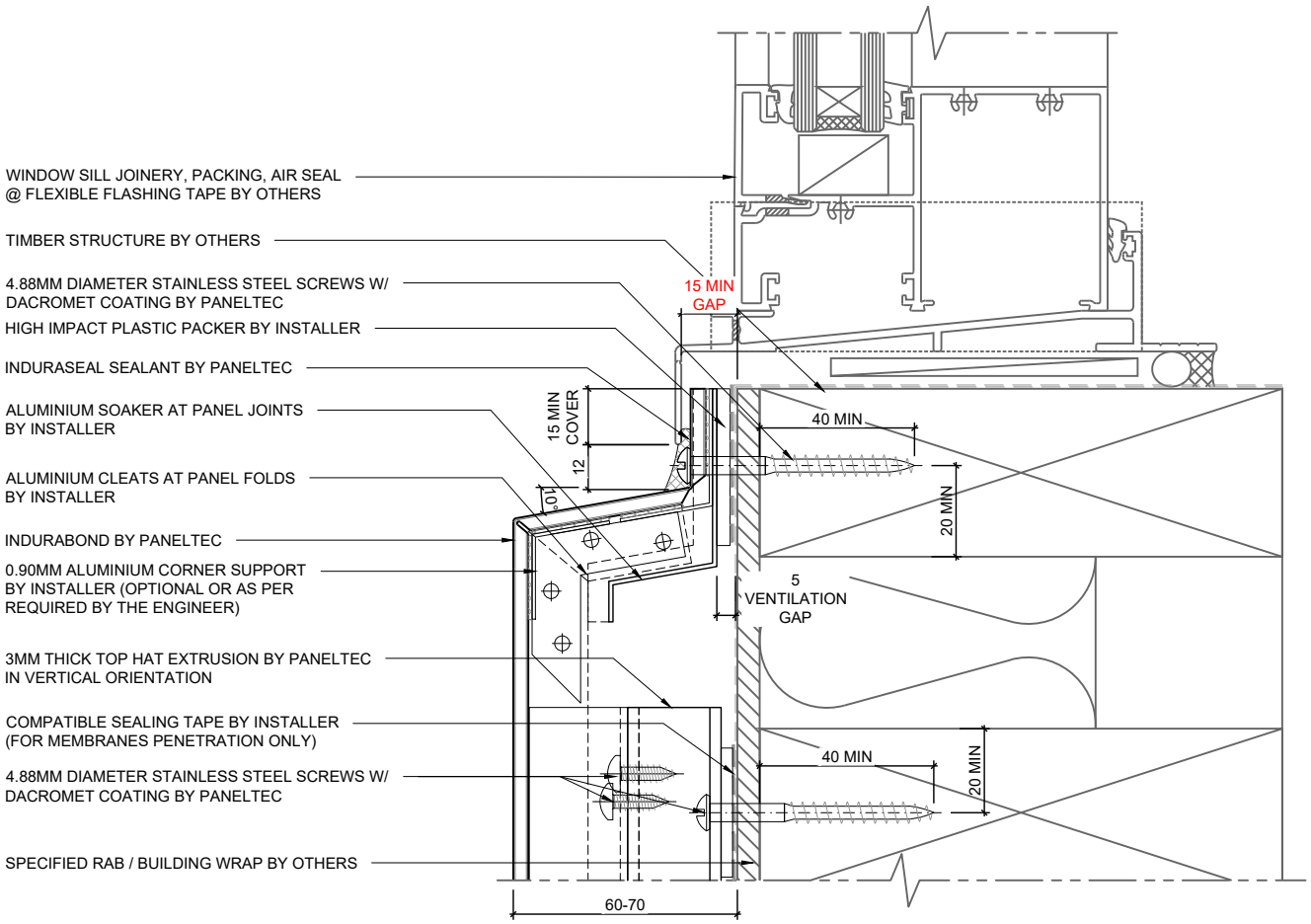
33. TYPICAL COMMERCIAL WINDOW HEAD (SECTION DETAIL)

Drawing Scale 1:2



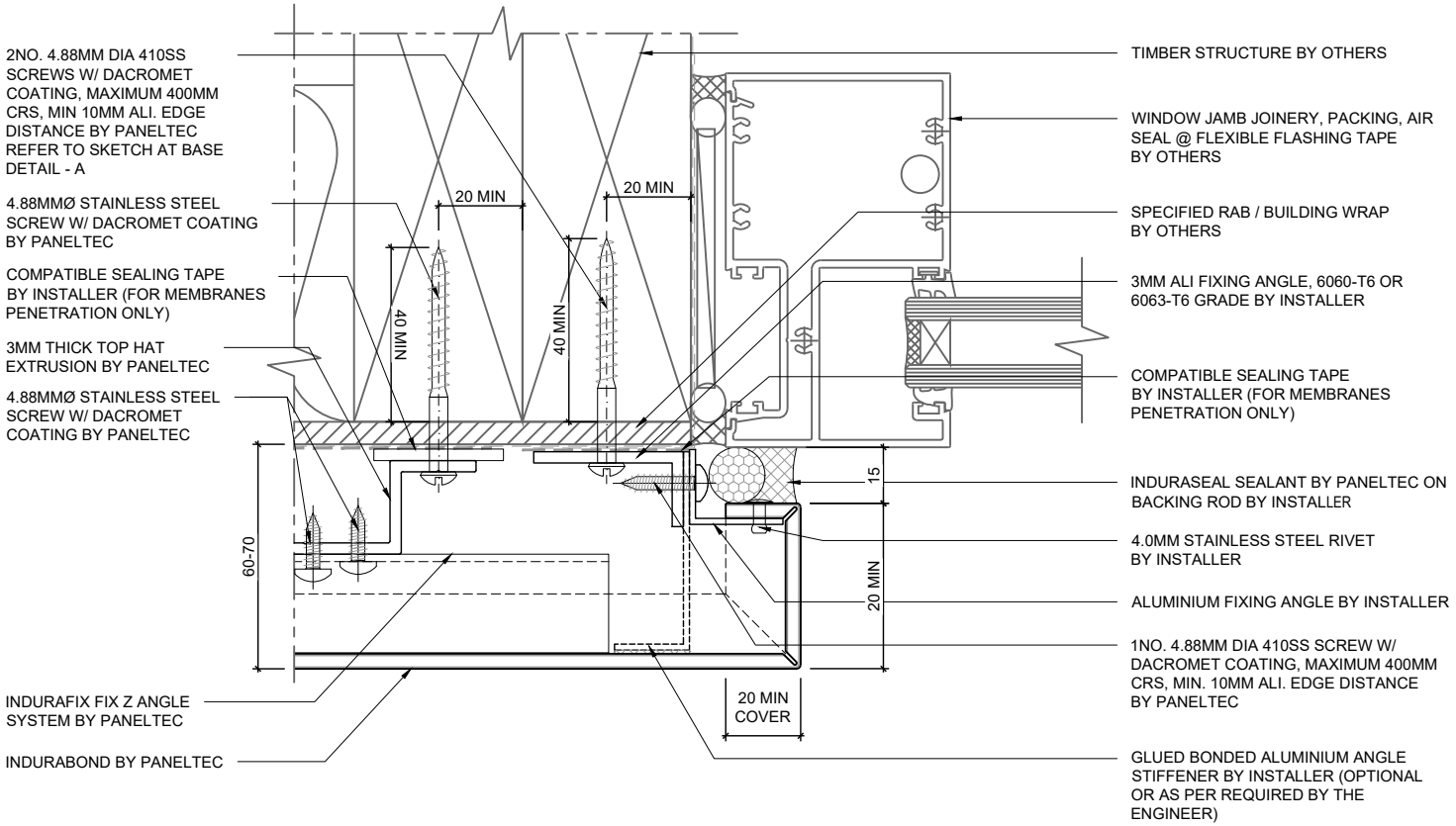
34. TYPICAL COMMERCIAL WINDOW SILL (SECTION DETAIL)

Drawing Scale 1:2



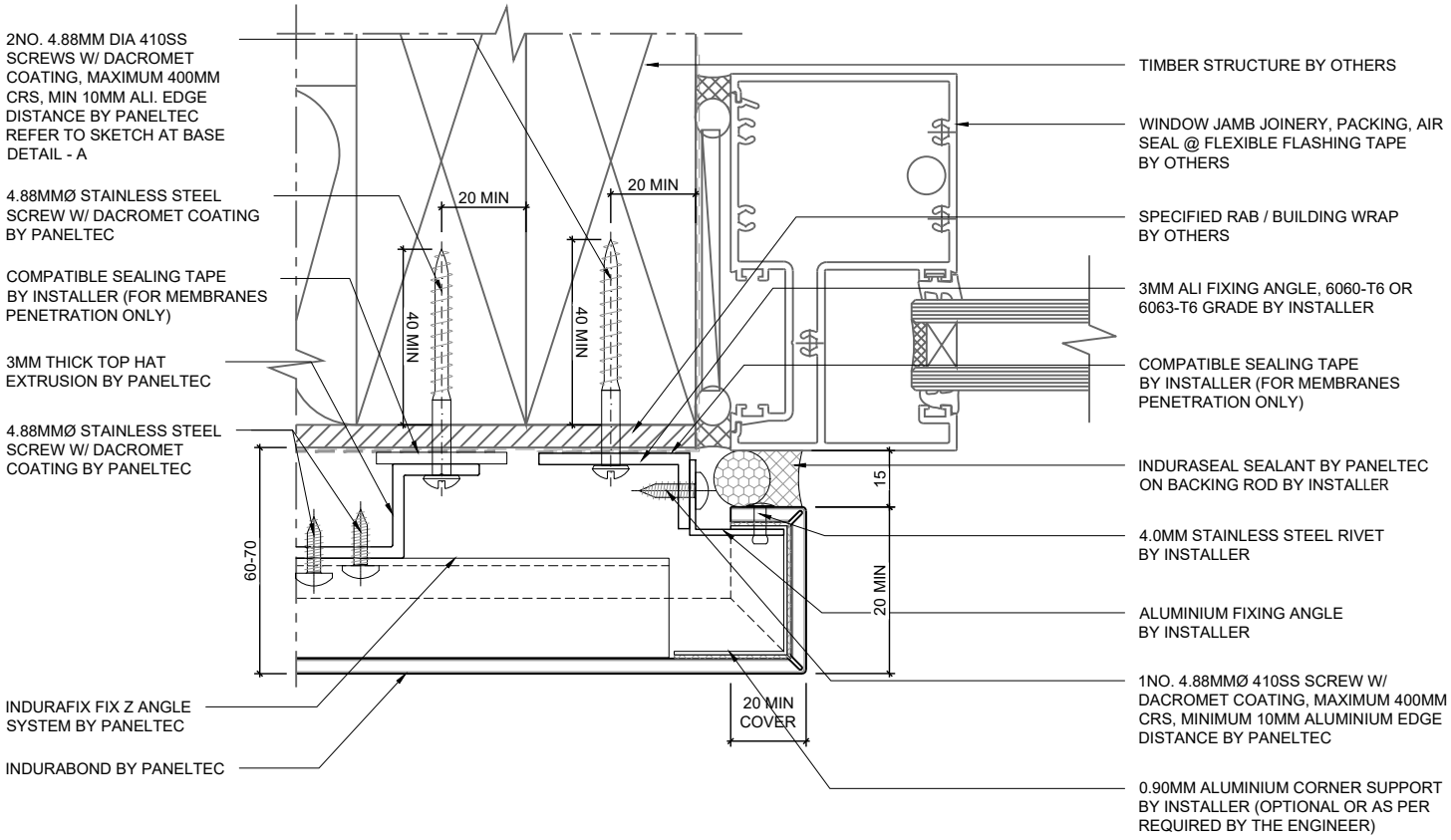
35. TYPICAL COMMERCIAL WINDOW JAMB - A (PLAN DETAIL)

Drawing Scale 1:2



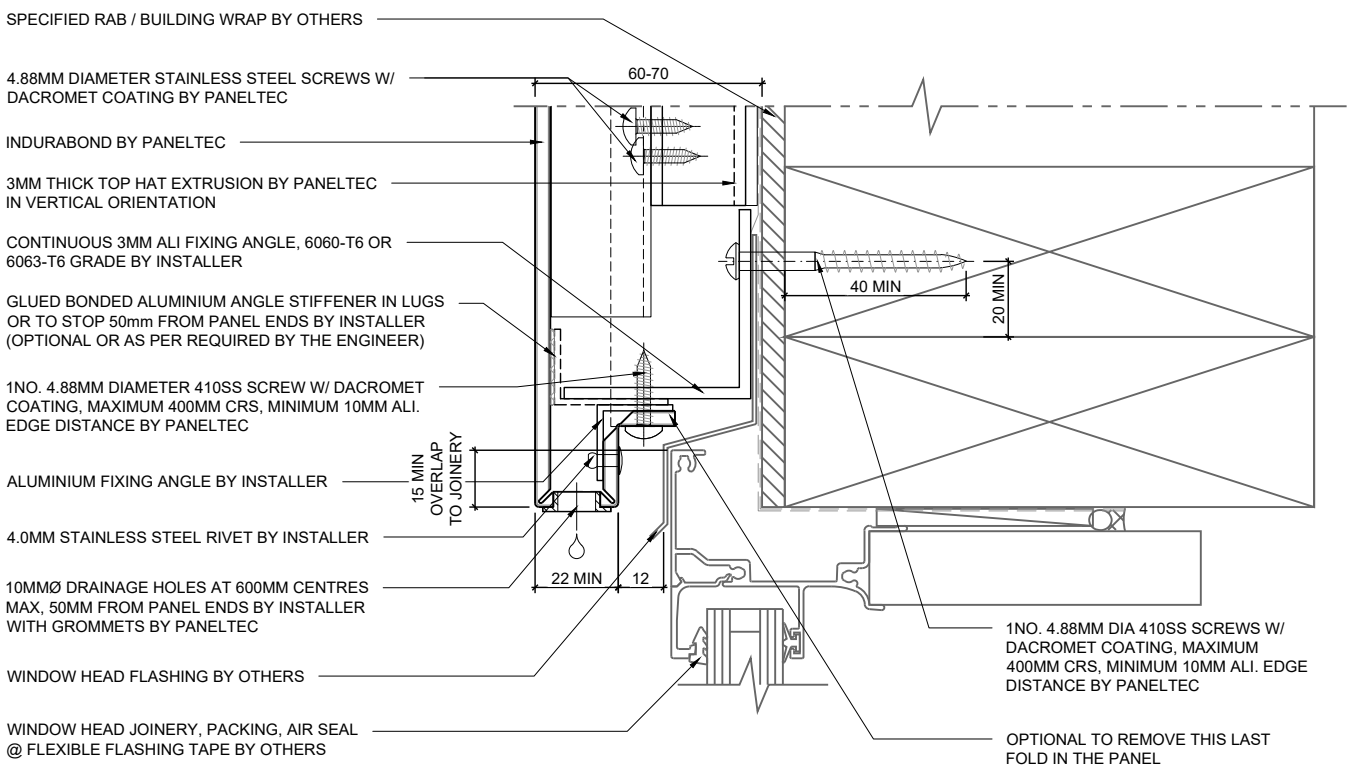
36. TYPICAL COMMERCIAL WINDOW JAMB - B (PLAN DETAIL)

Drawing Scale 1:2



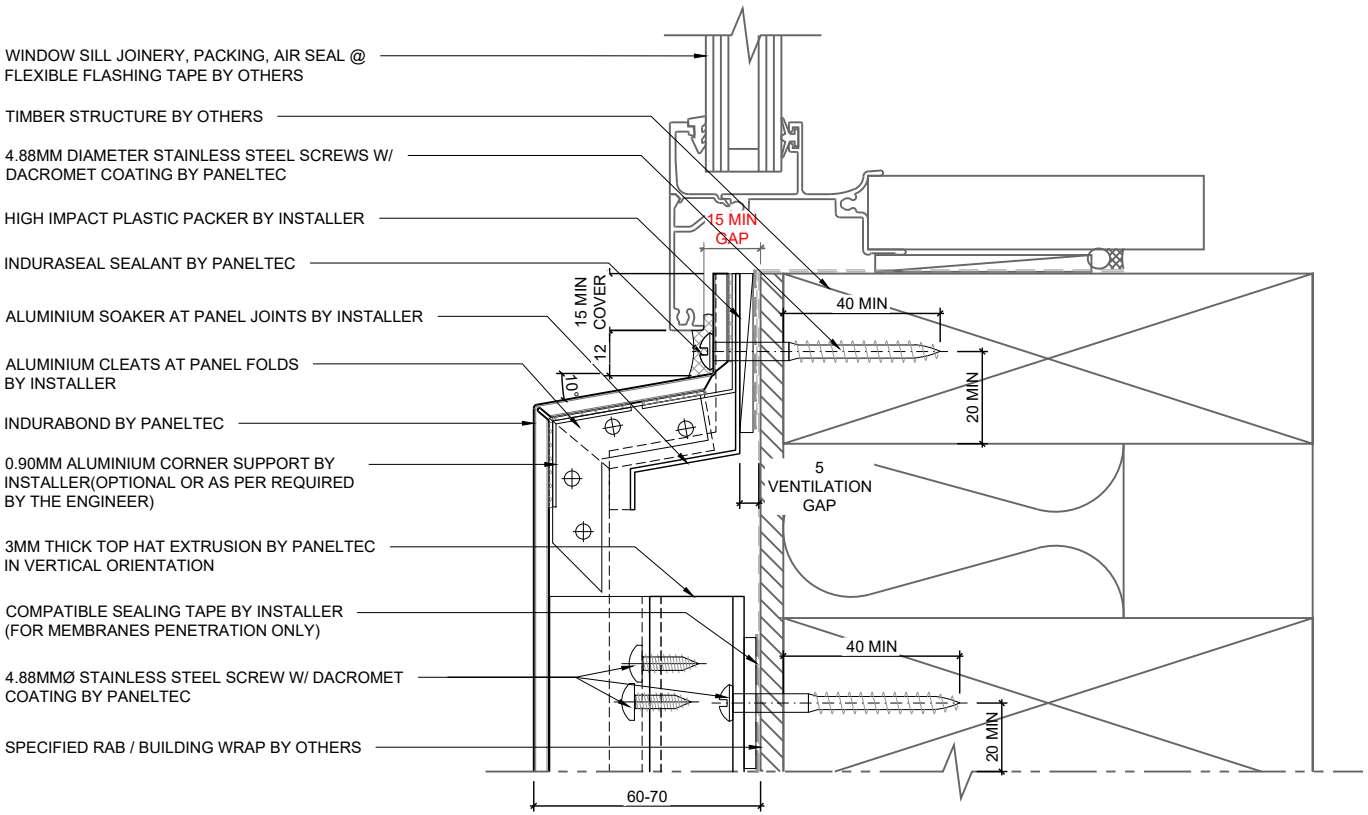
37. TYPICAL RESIDENTIAL WINDOW HEAD (SECTION DETAIL)

Drawing Scale 1:2



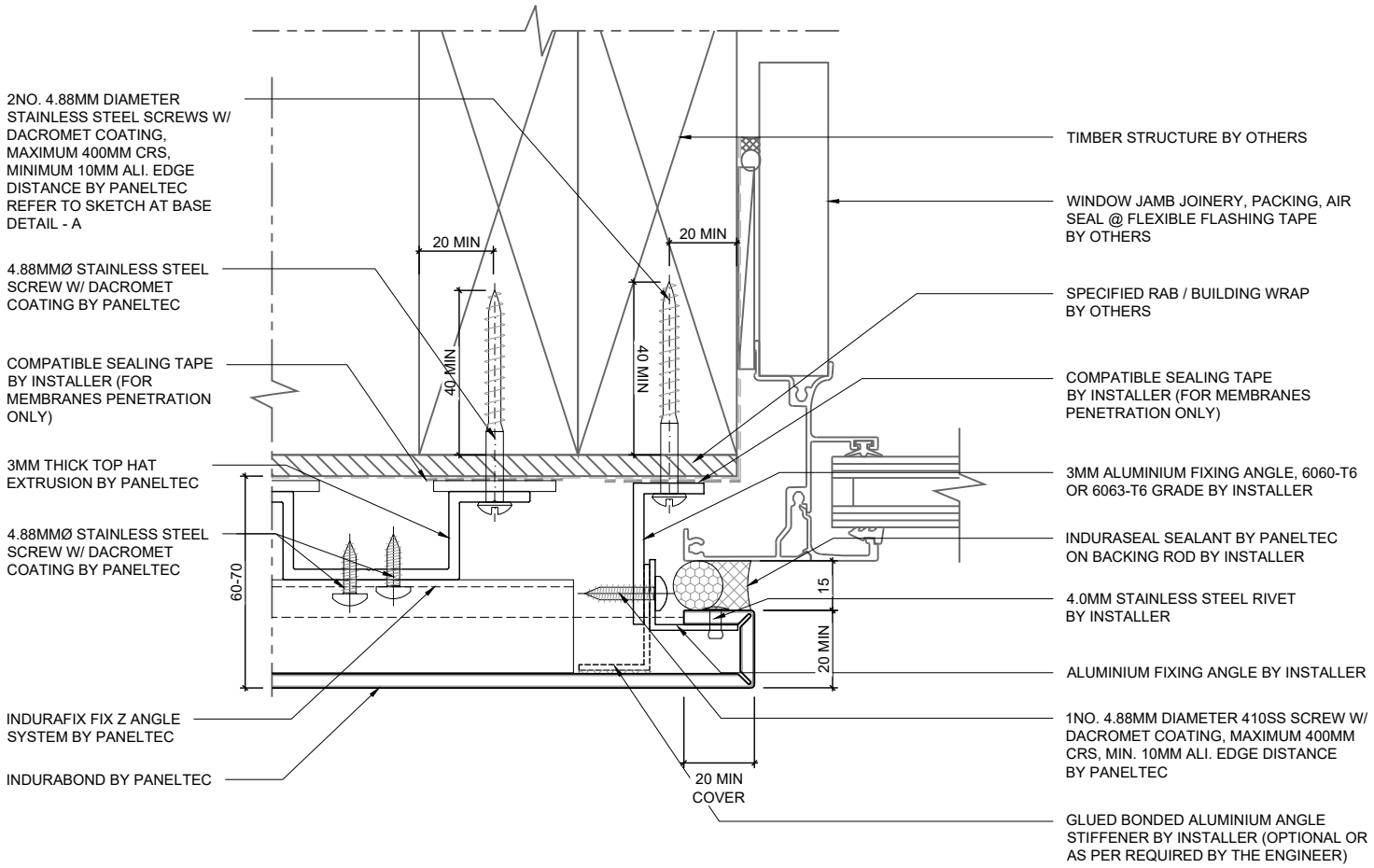
38. TYPICAL RESIDENTIAL WINDOW SILL (SECTION DETAIL)

Drawing Scale 1:2



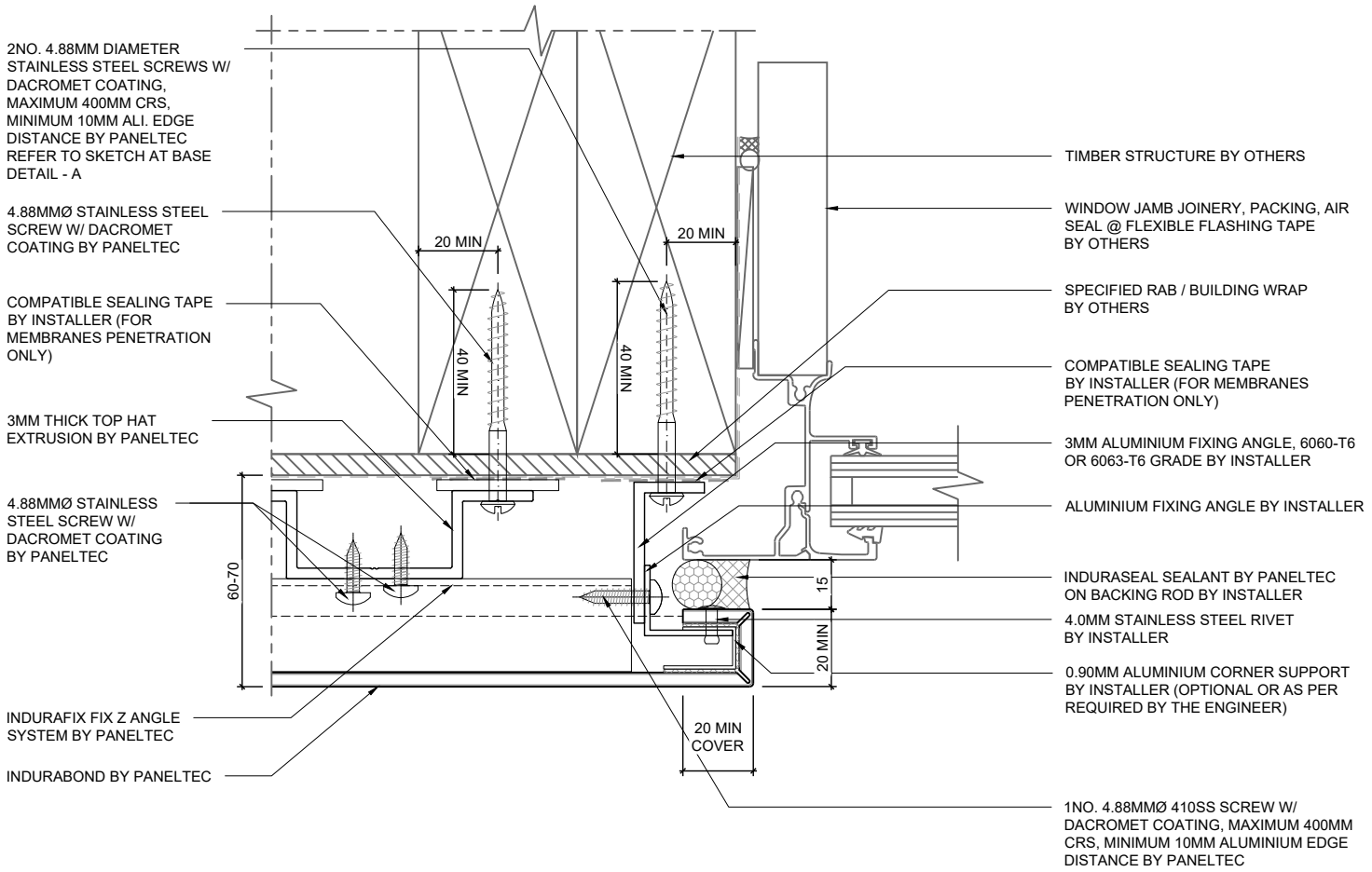
39. TYPICAL RESIDENTIAL WINDOW JAMB - A (PLAN DETAIL)

Drawing Scale 1:2



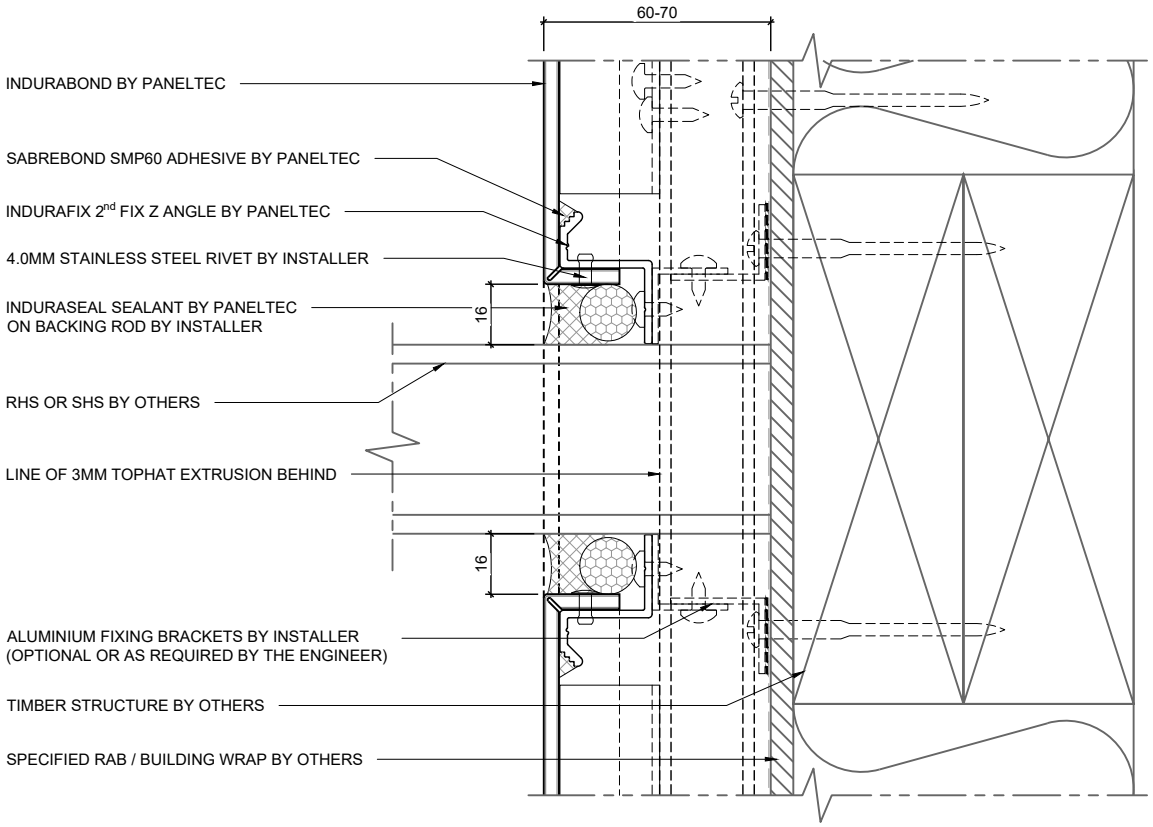
40. TYPICAL RESIDENTIAL WINDOW JAMB - B (PLAN DETAIL)

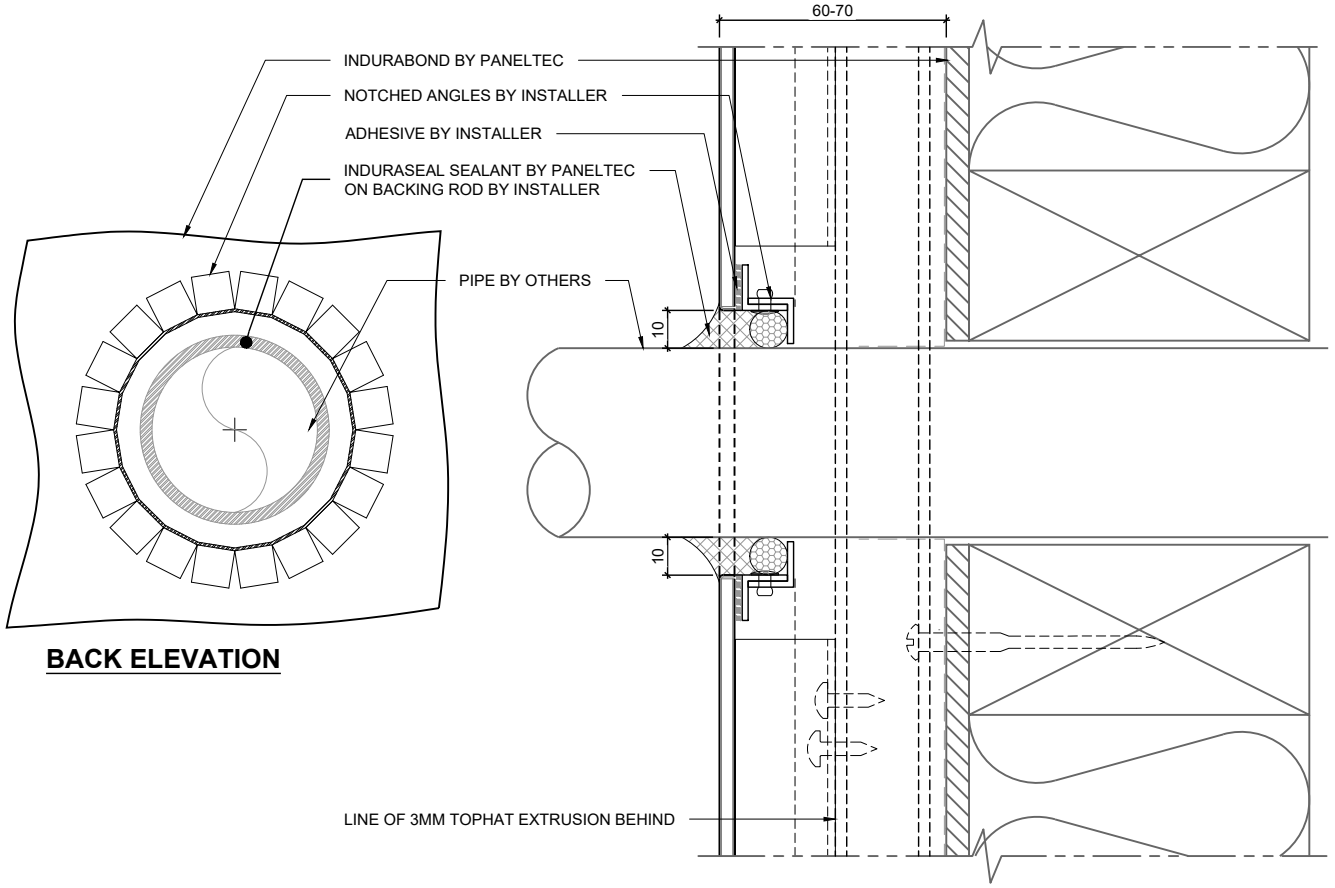
Drawing Scale 1:2



41. WALL PENETRATION (SECTION DETAIL)

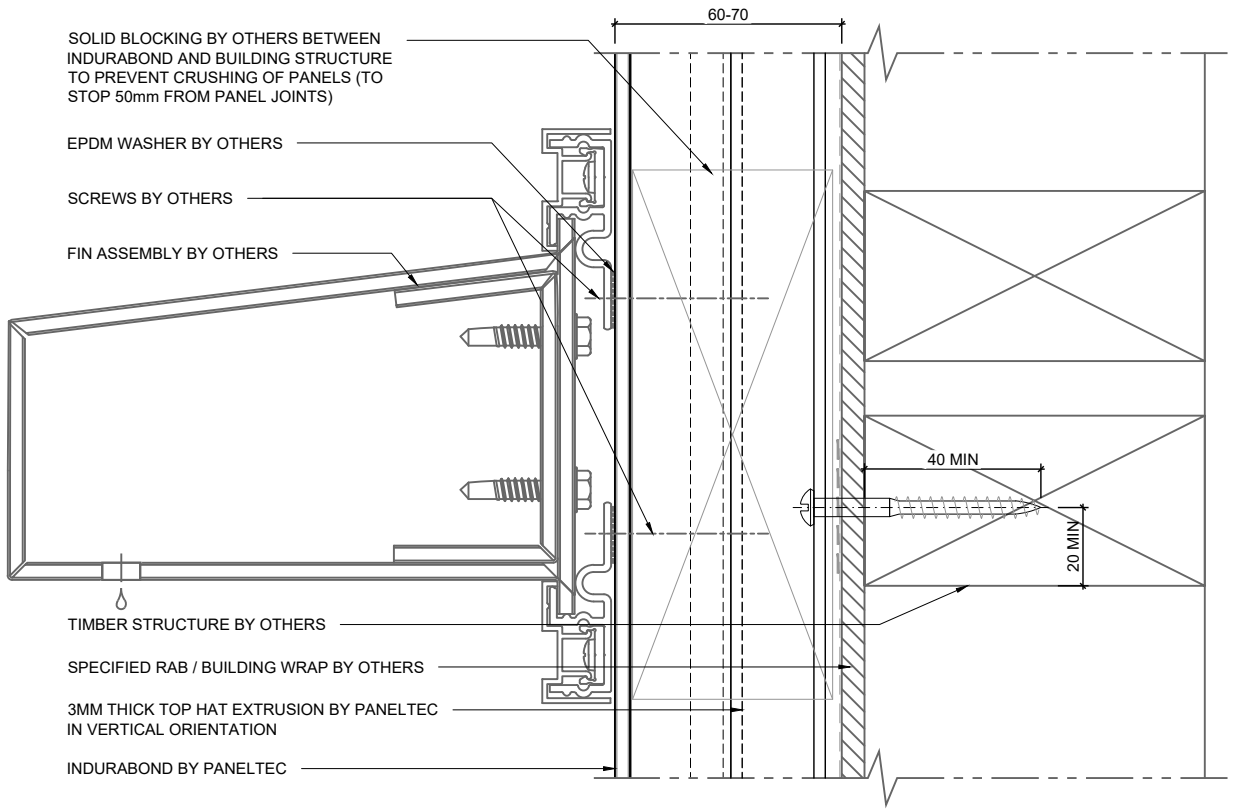
Drawing Scale 1:2




60-70
INDURABOND BY PANELTEC
NOTCHED ANGLES BY INSTALLER
ADHESIVE BY INSTALLER
INDURASEAL SEALANT BY PANELTEC
ON BACKING ROD BY INSTALLER
PIPE BY OTHERS
10
10
LINE OF 3MM TOPHAT EXTRUSION BEHIND
BACK ELEVATION

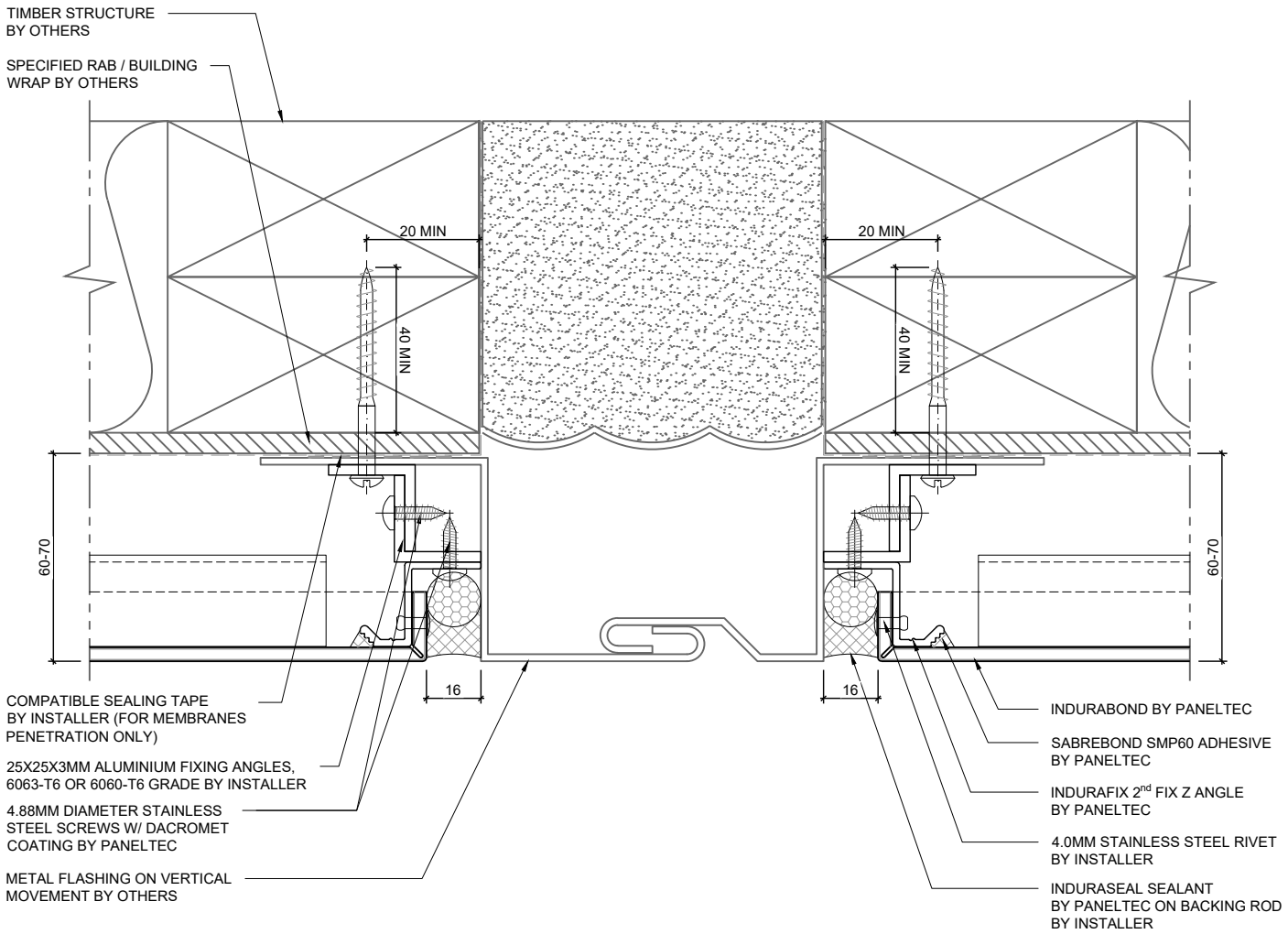
43. FIN MOUNTING (SECTION DETAIL)

Drawing Scale 1:2



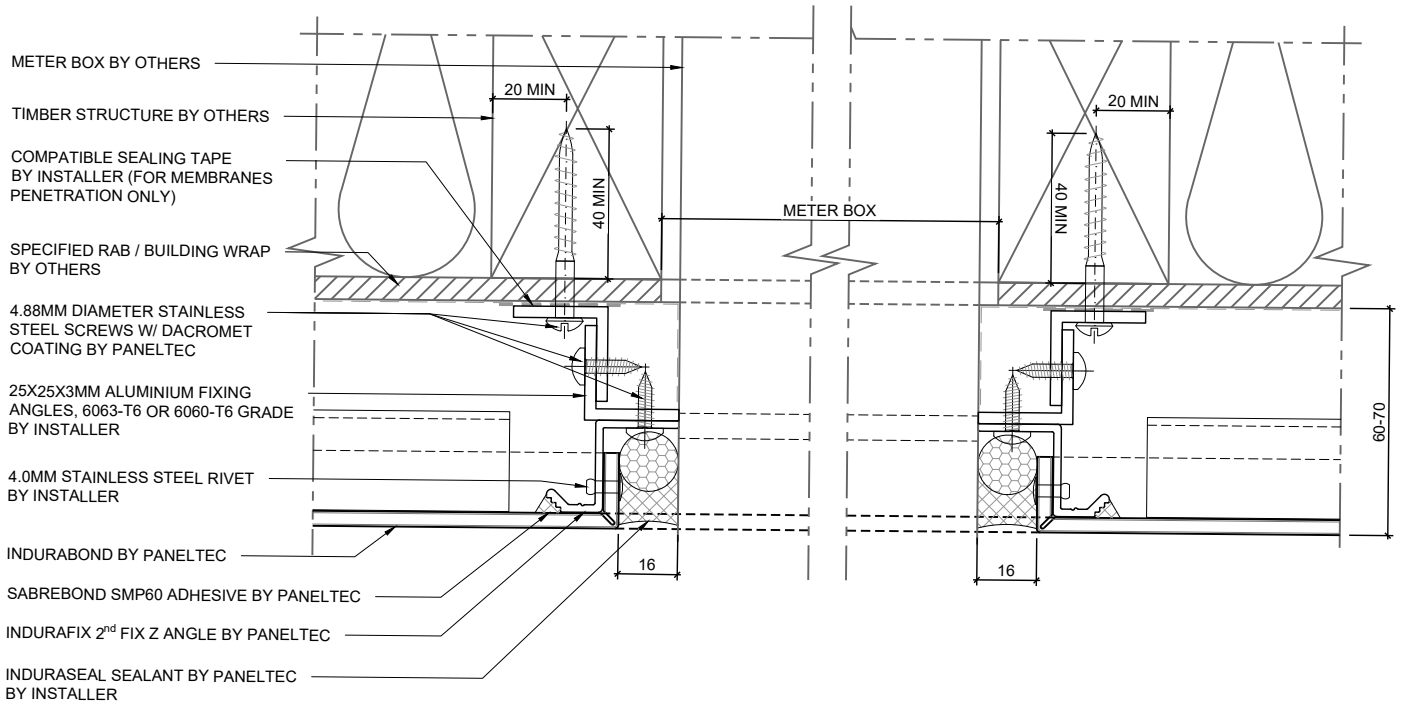
44. GENERAL DIFFERENTIAL MOVEMENT (PLAN DETAIL)

Drawing Scale 1:2



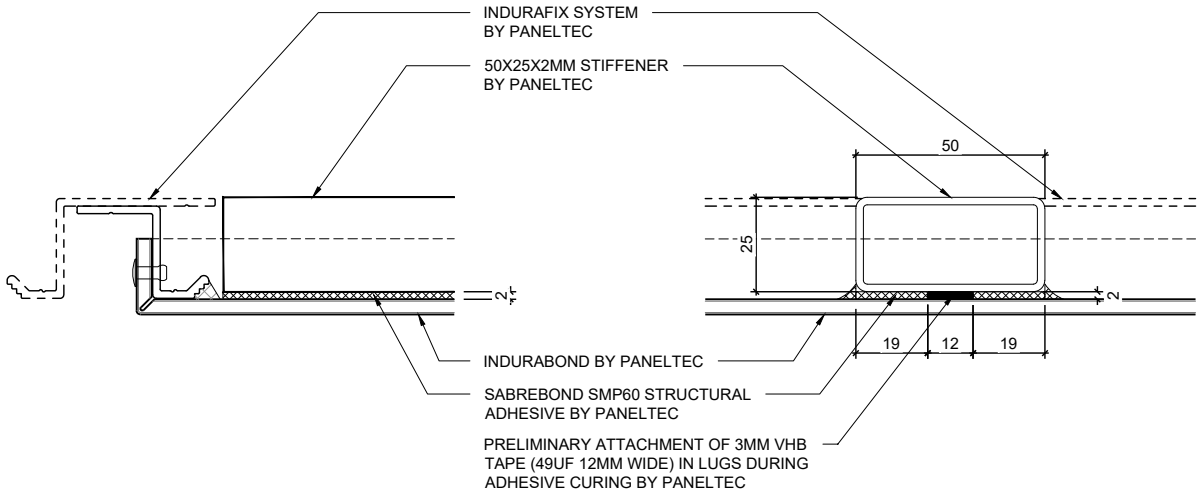
45. METER BOX PENETRATION (PLAN DETAIL)

Drawing Scale 1:2



46. ALUMINIUM STIFFENER TO INDURABOND (PLAN DETAIL)

Drawing Scale 1:2



FIXING OF STIFFENER TO INDURABOND LEG

CUT THROUGH STIFFENER

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