

L Series details



This document is intended for use by suitably qualified professionals in the construction industry like architects, designers and specifiers who want to apply the Cassette Cladding system as part of their buildings exterior facade.

The following Cassette Cladding documents must be read with this document to provide context:

- Cassette Cladding Brochure
- L Series Design Guide
- L Series Installation Guide

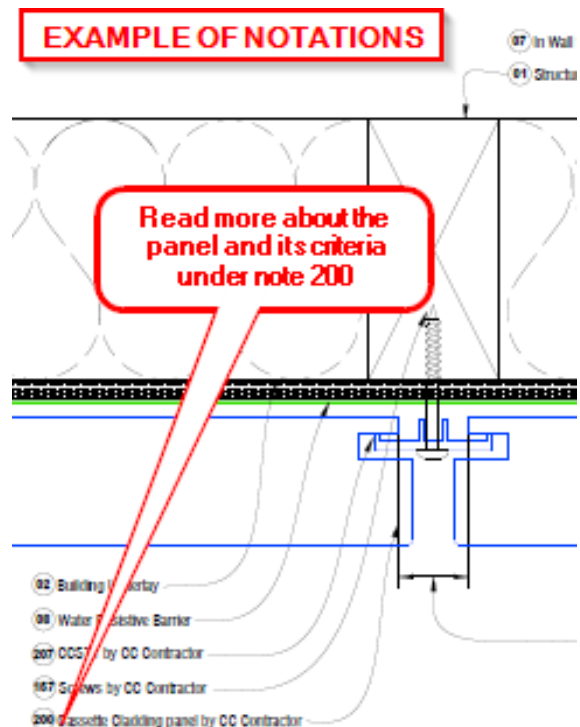
The details contain limited information. Refer to the annotation section following the details for additional clarification on requirements and component limitations indicated on these details.

These notations serve to expand upon the details illustrating the Cassette Cladding, as space constraints on the detail pages themselves are limited (e.g., similar to how architectural drawings are supplemented by specifications)

Each notation may be influenced by other notations within this document. Therefore, the entire document should be reviewed when interpreting a specific notation.

00 to 99 > Unrelated to Cassette Cladding but affects Cassette Cladding
 100 – 199 > Cassette Cladding First Fix components
 200 – 299 > Cassette Cladding Second Fix panel components

Approved alternative means approved by a suitable group of professionals not limited to product supplier, fire engineer, structural engineer, façade engineer, architect, and ultimately territorial authority.



These clarifications must not be relied upon as project specific design information.

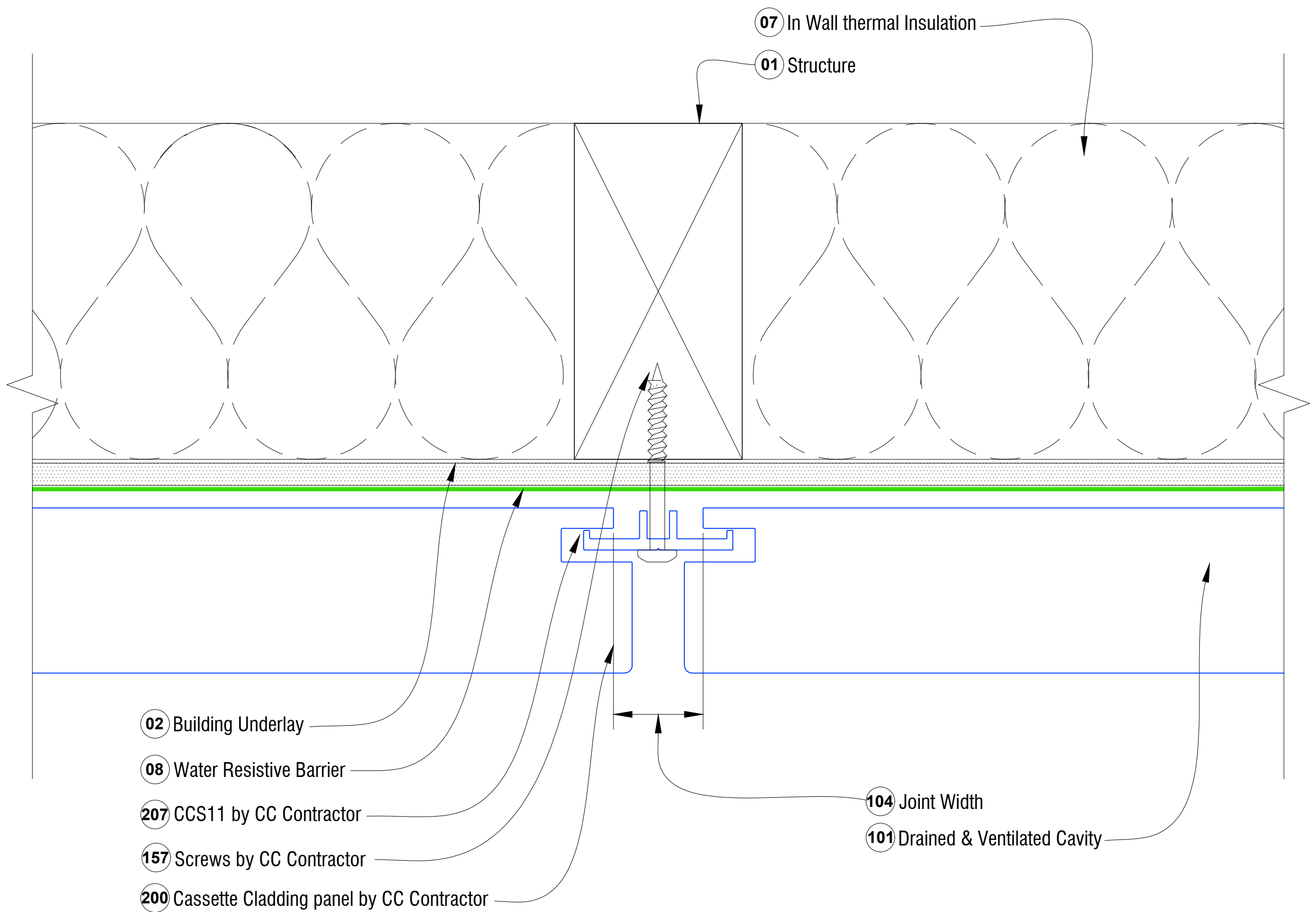
Where comments are made in relation to other components, like the timber structure that is not forming part of the Cassette Cladding contractors' scope, the comments are additional to and not in substitution of NZBC compliance requirements.

All fasteners must be embedded in suitable structure – regardless if the detail drawings clearly show it.

These details provide an indicative outline of the Cassette Cladding panel type P02 – Option 7. These outlines would vary for different types of Cassette Cladding panels.

Refer to the document 'Panel Types and Options' for information on the various cladding types and achievable appearances.

L-SERIES DETAILS



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DRAWING TITLE

VERTICAL
JOINT DETAIL

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DRAWING STATUS

**ARCHITECTURAL
RESOURCE**

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L01

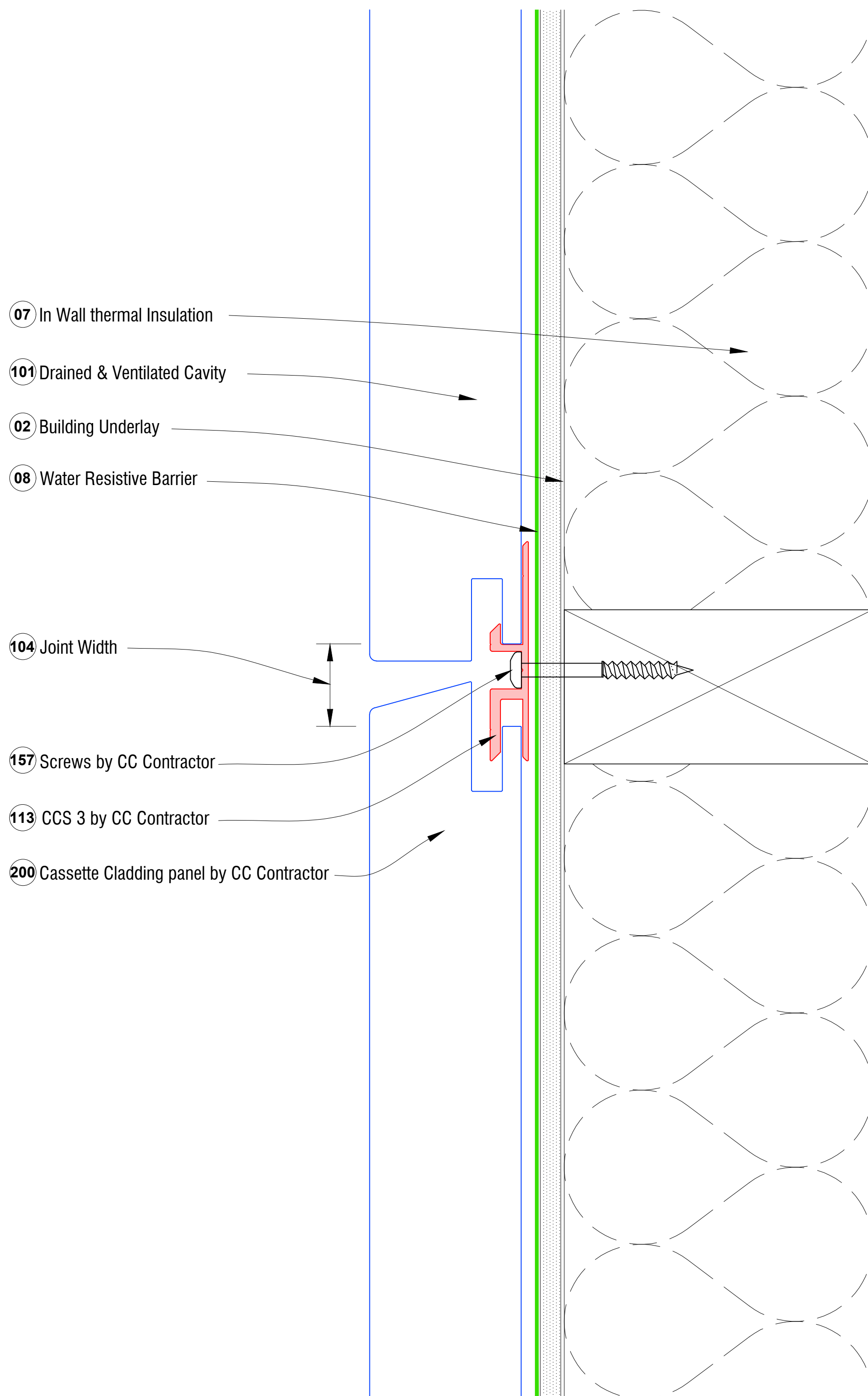
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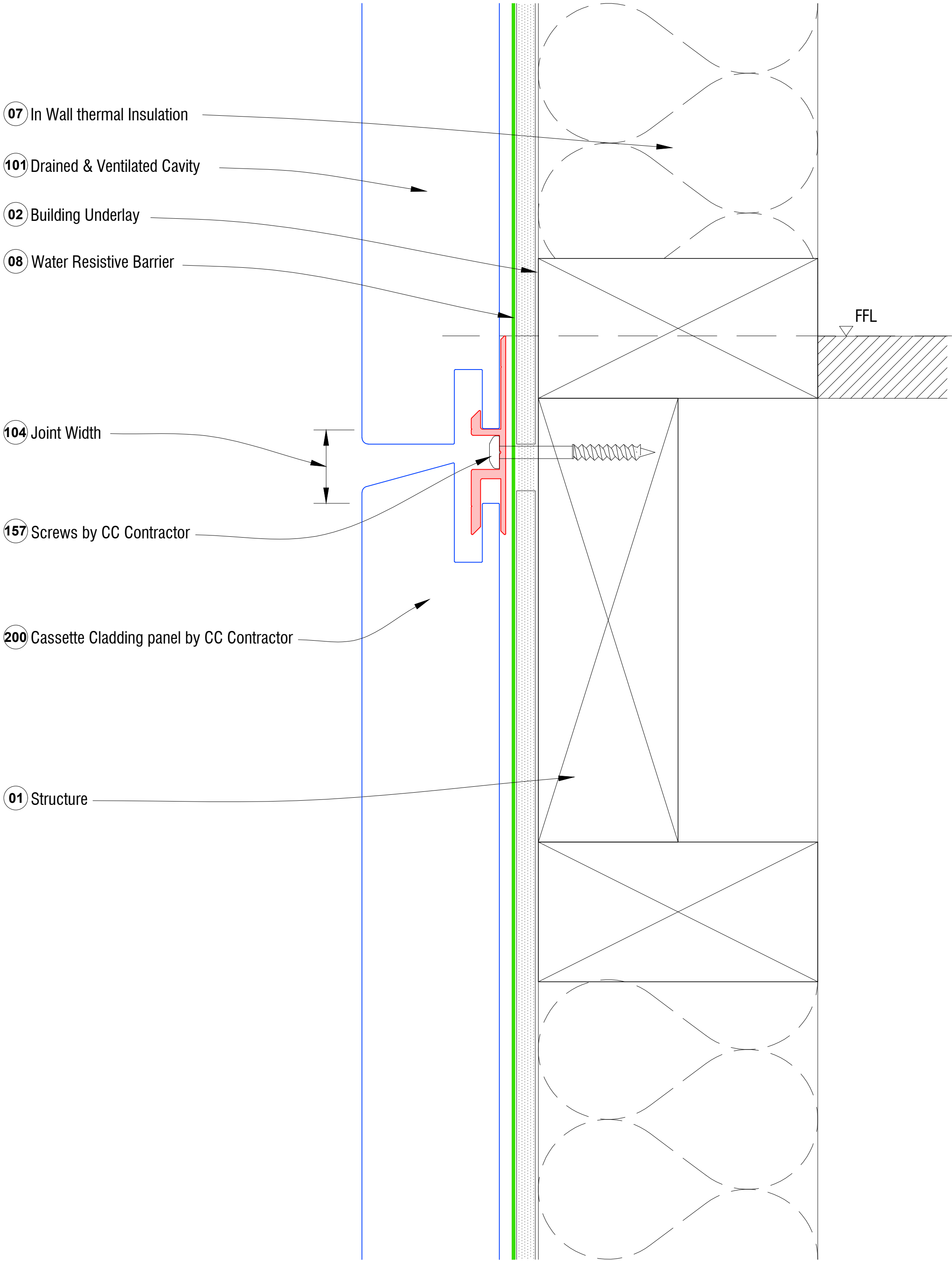
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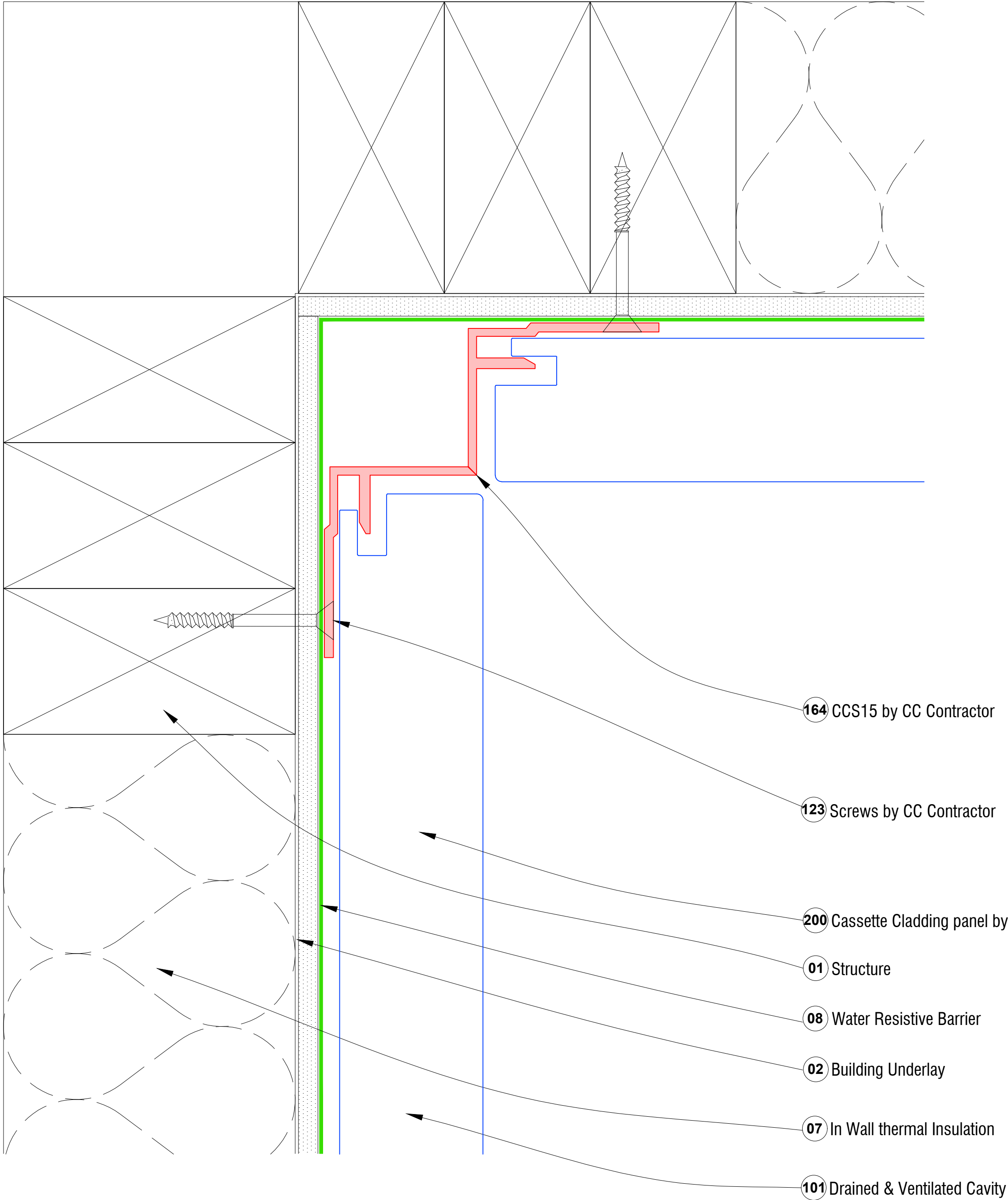
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INTERNAL CORNER
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DRAWING STATUS

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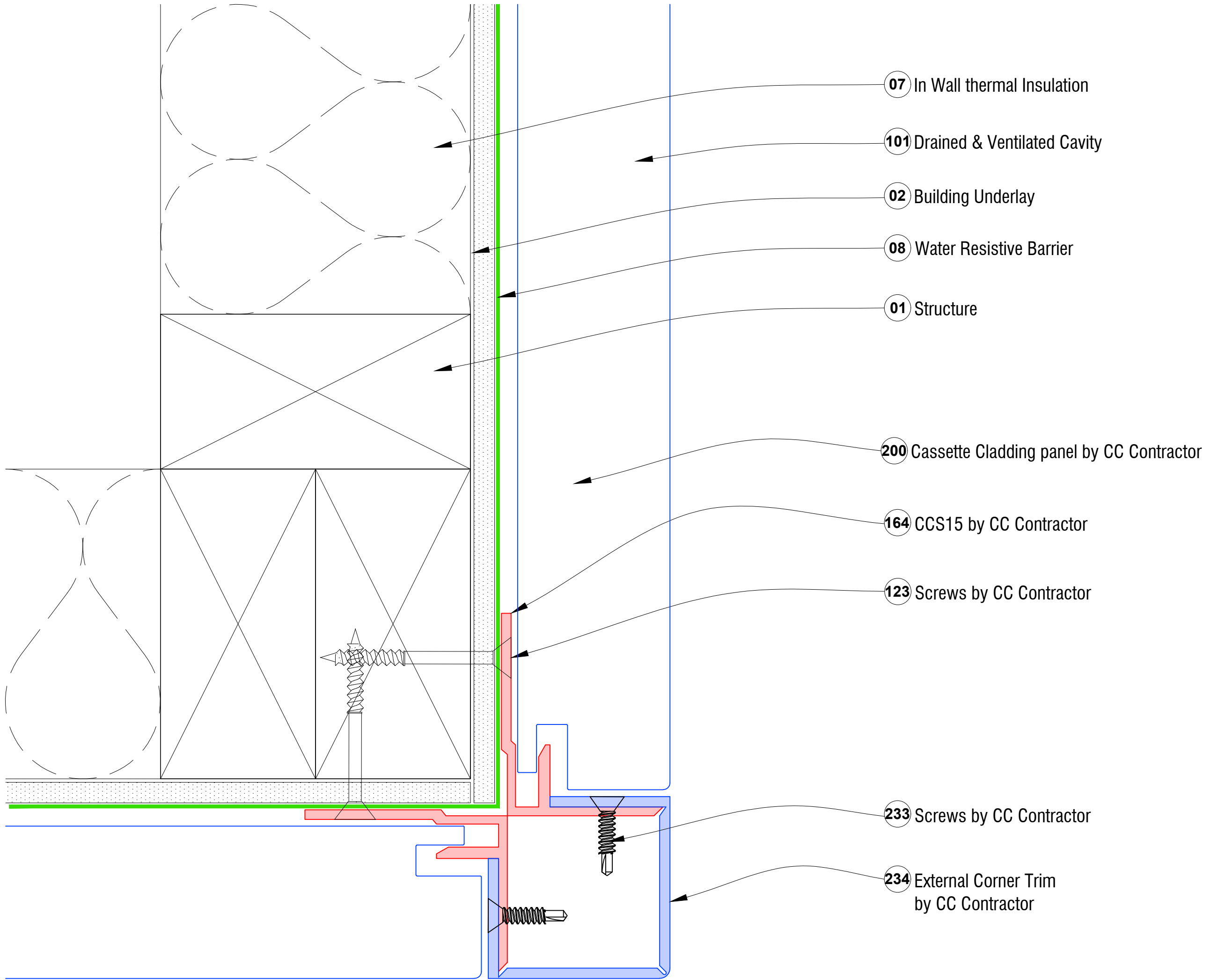
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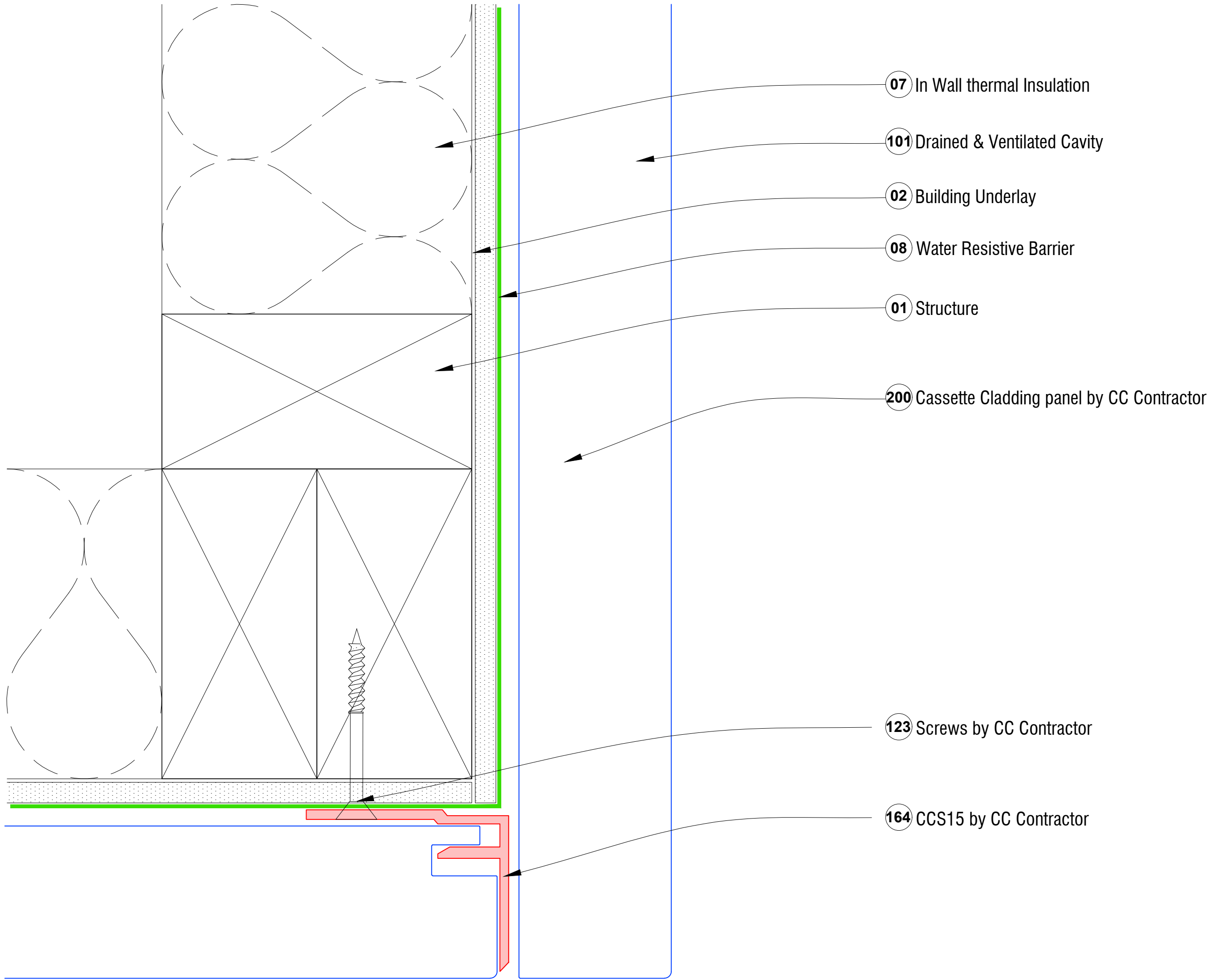
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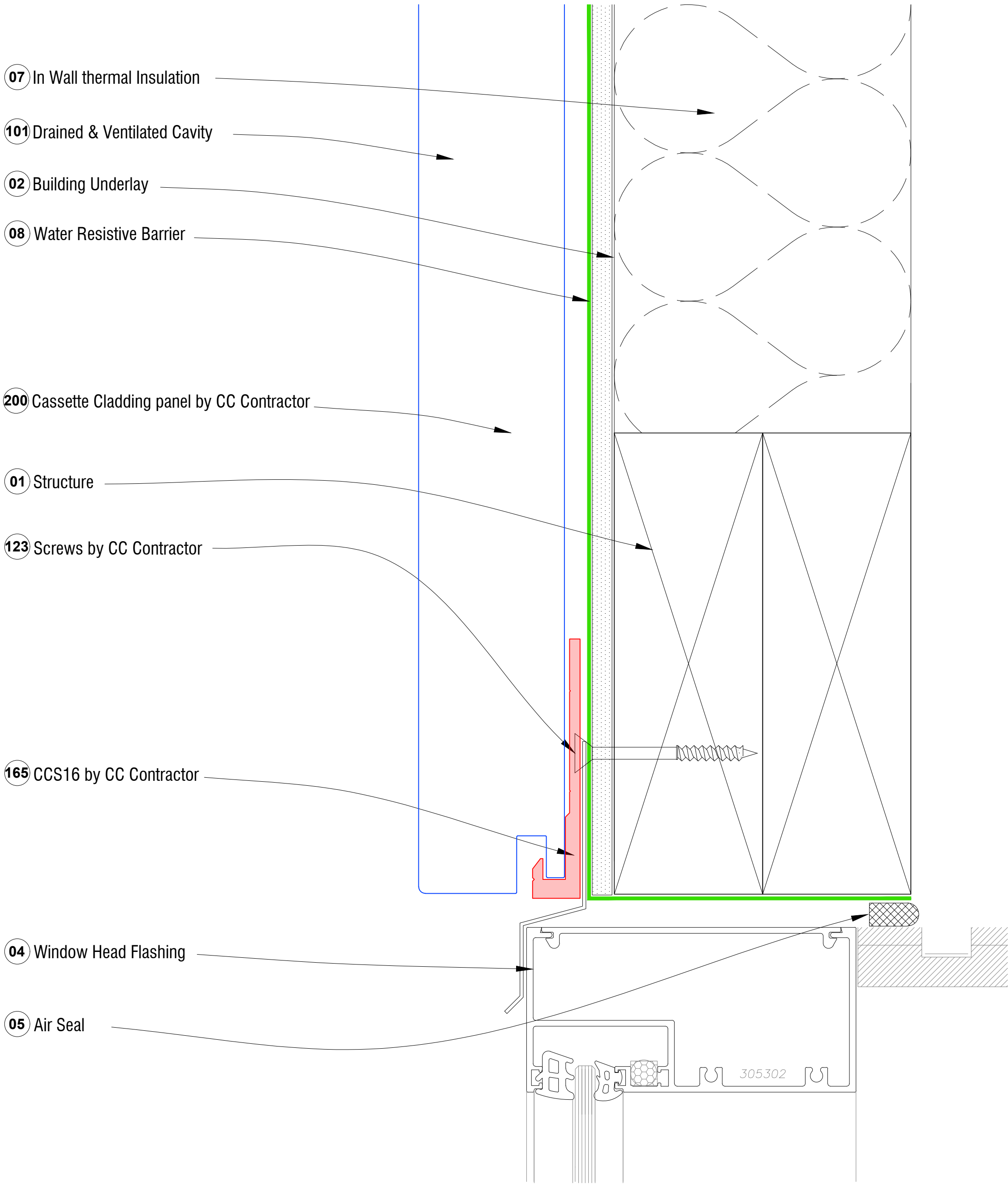
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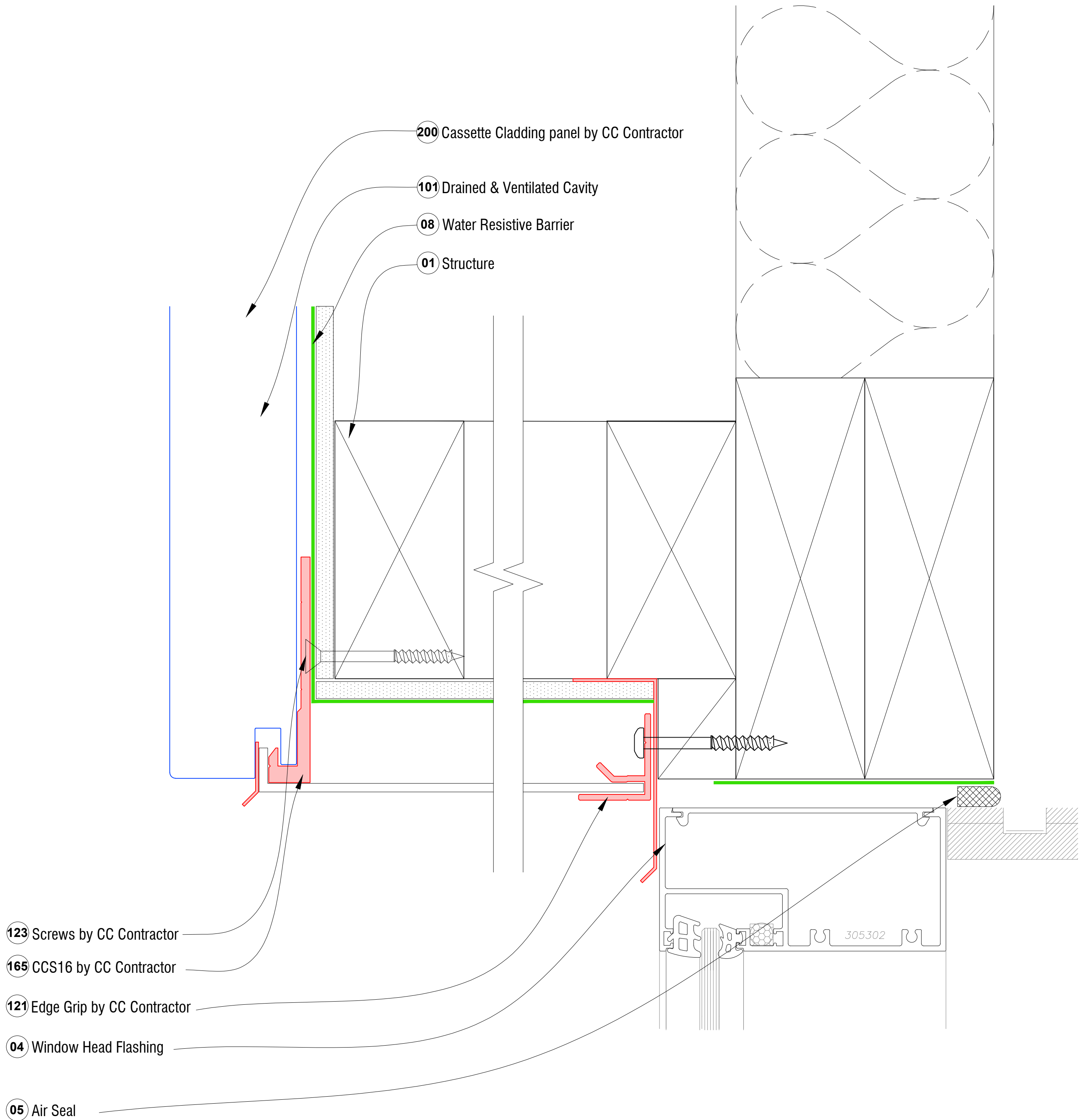
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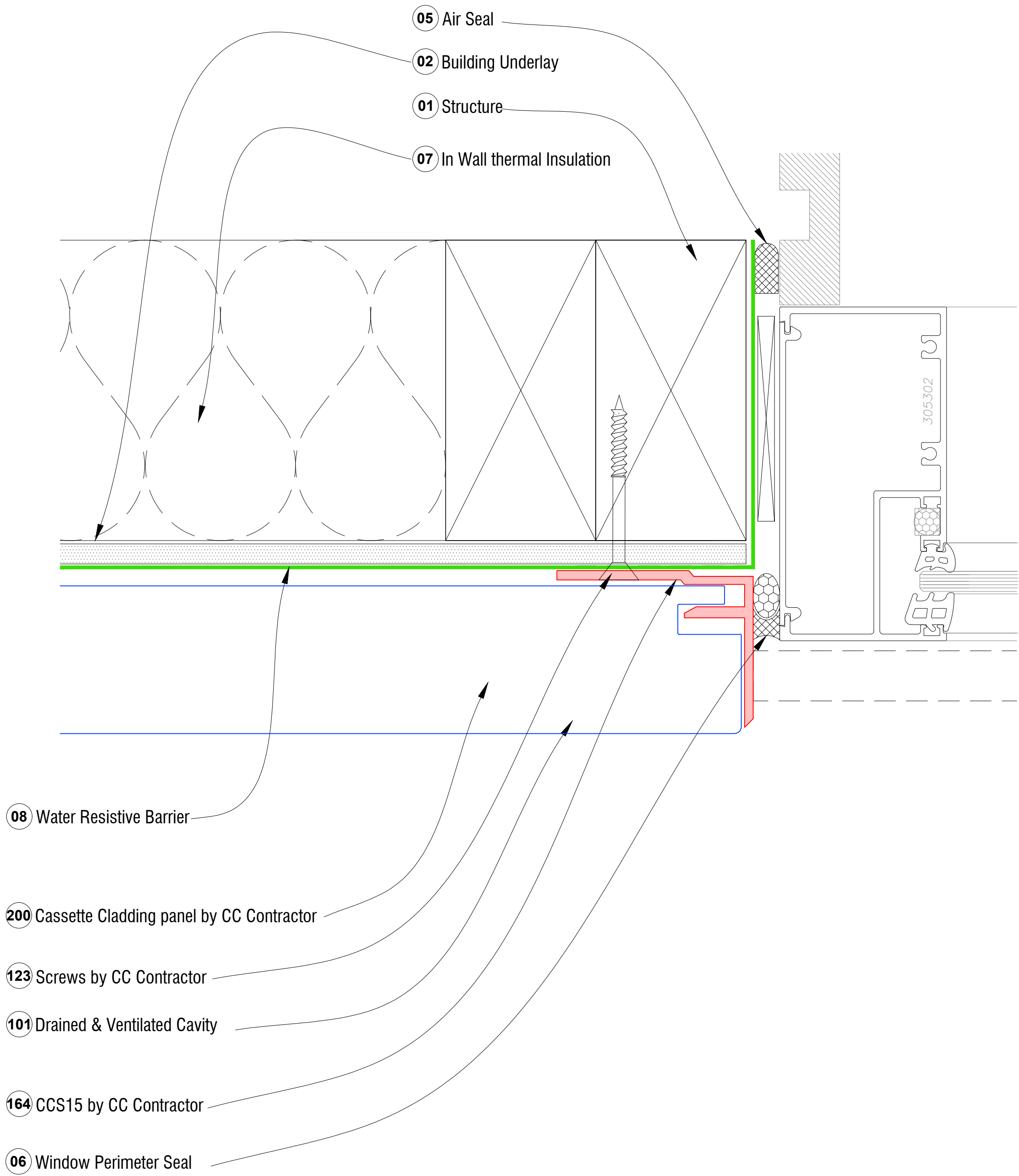




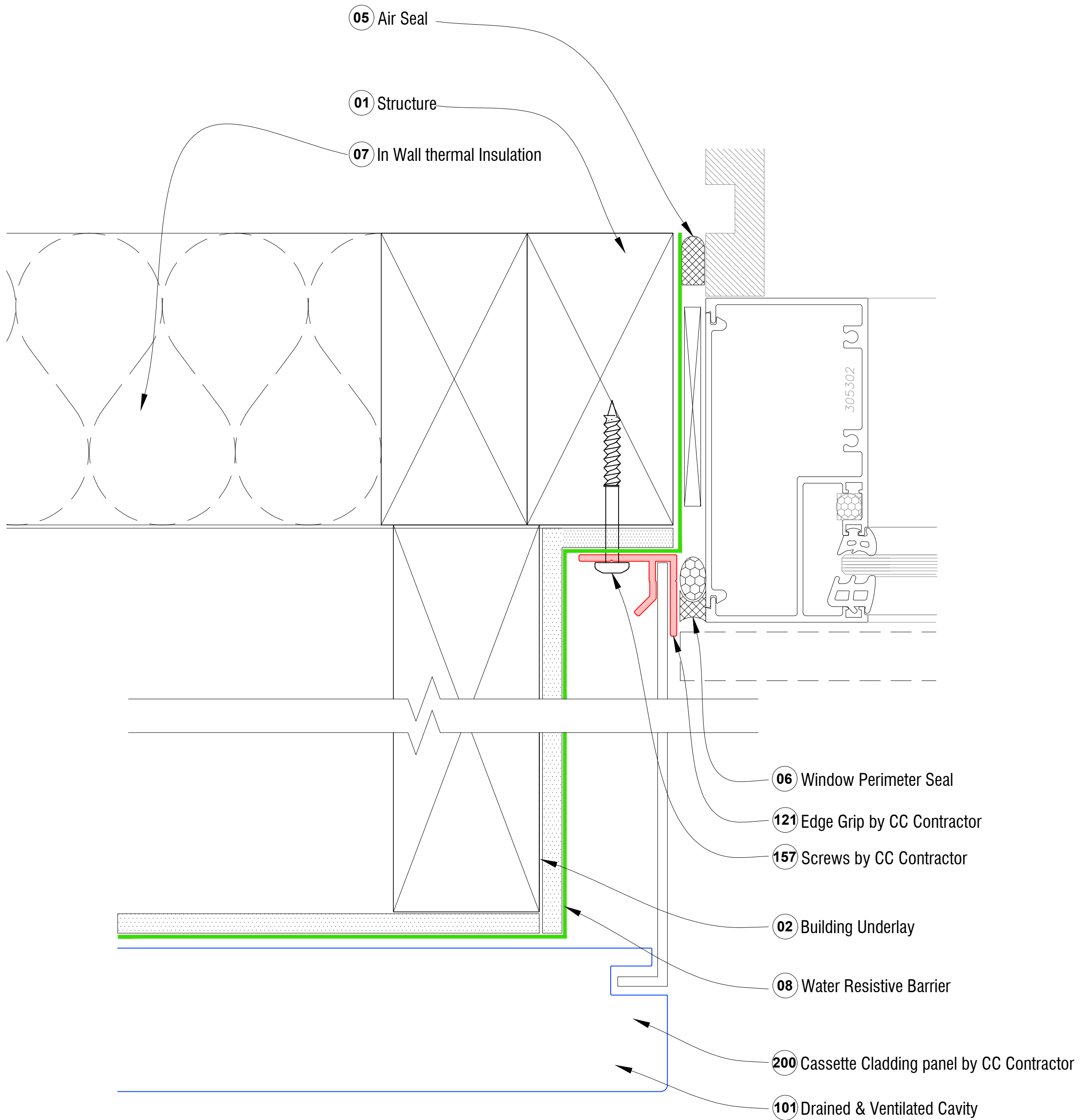




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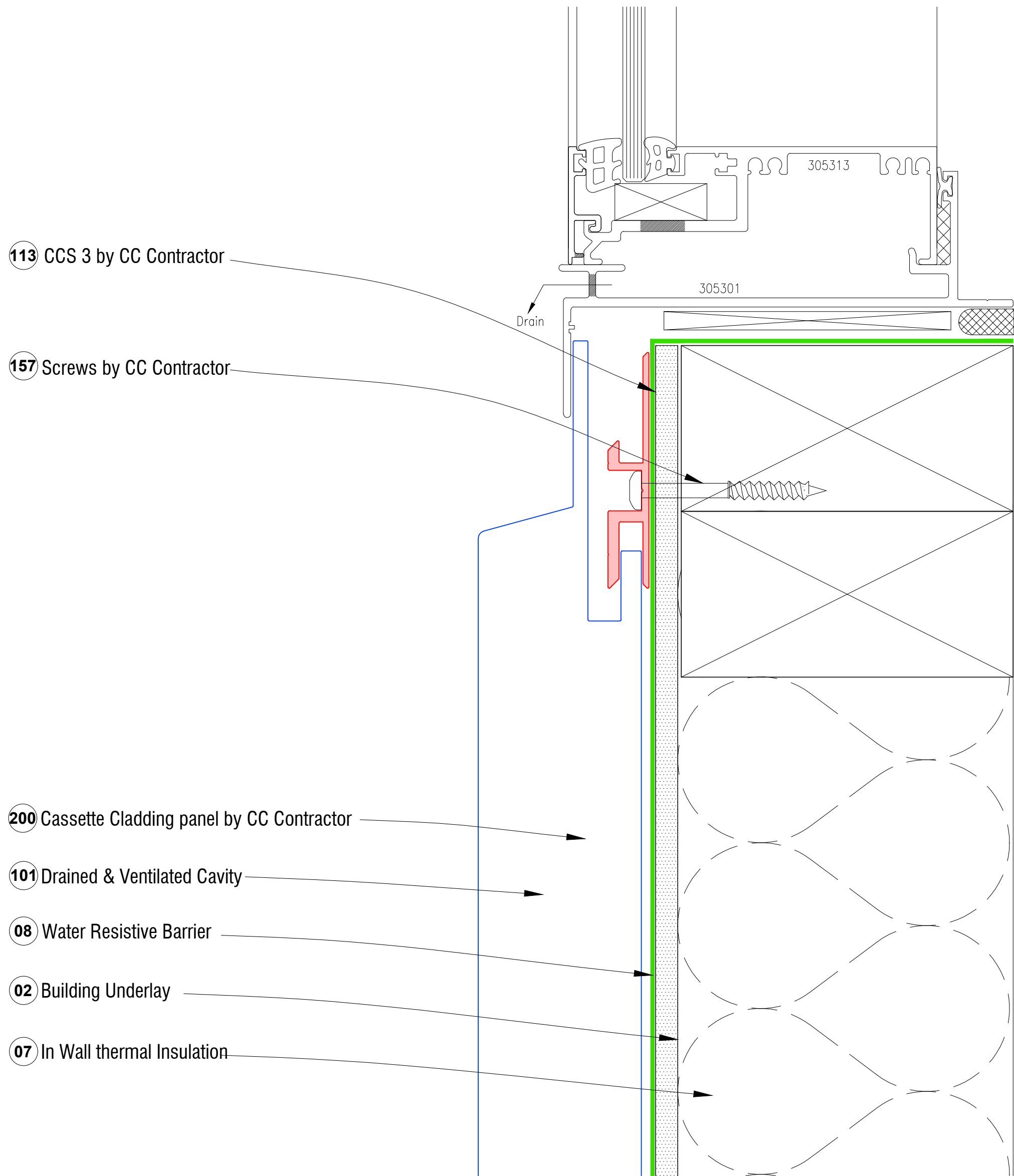
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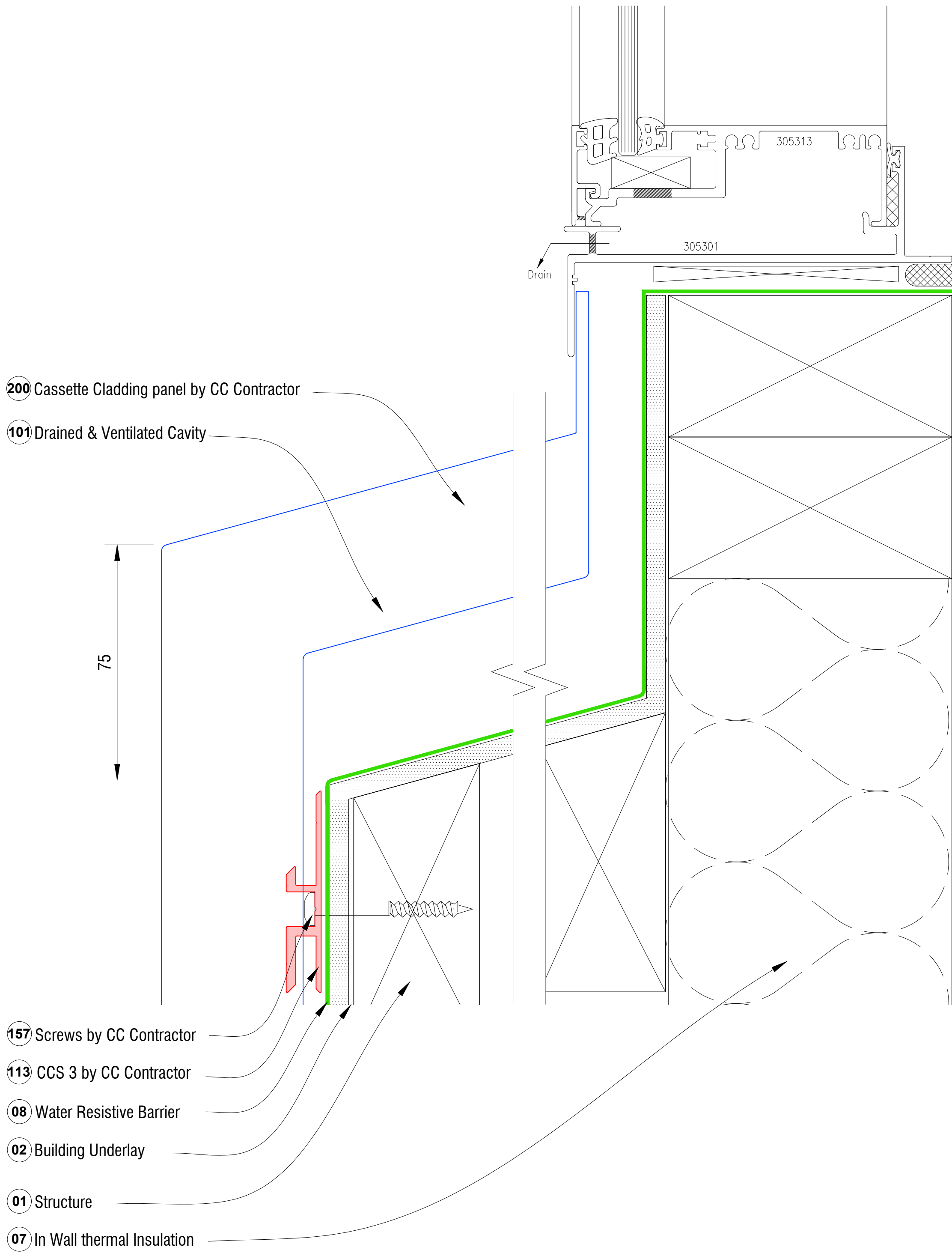
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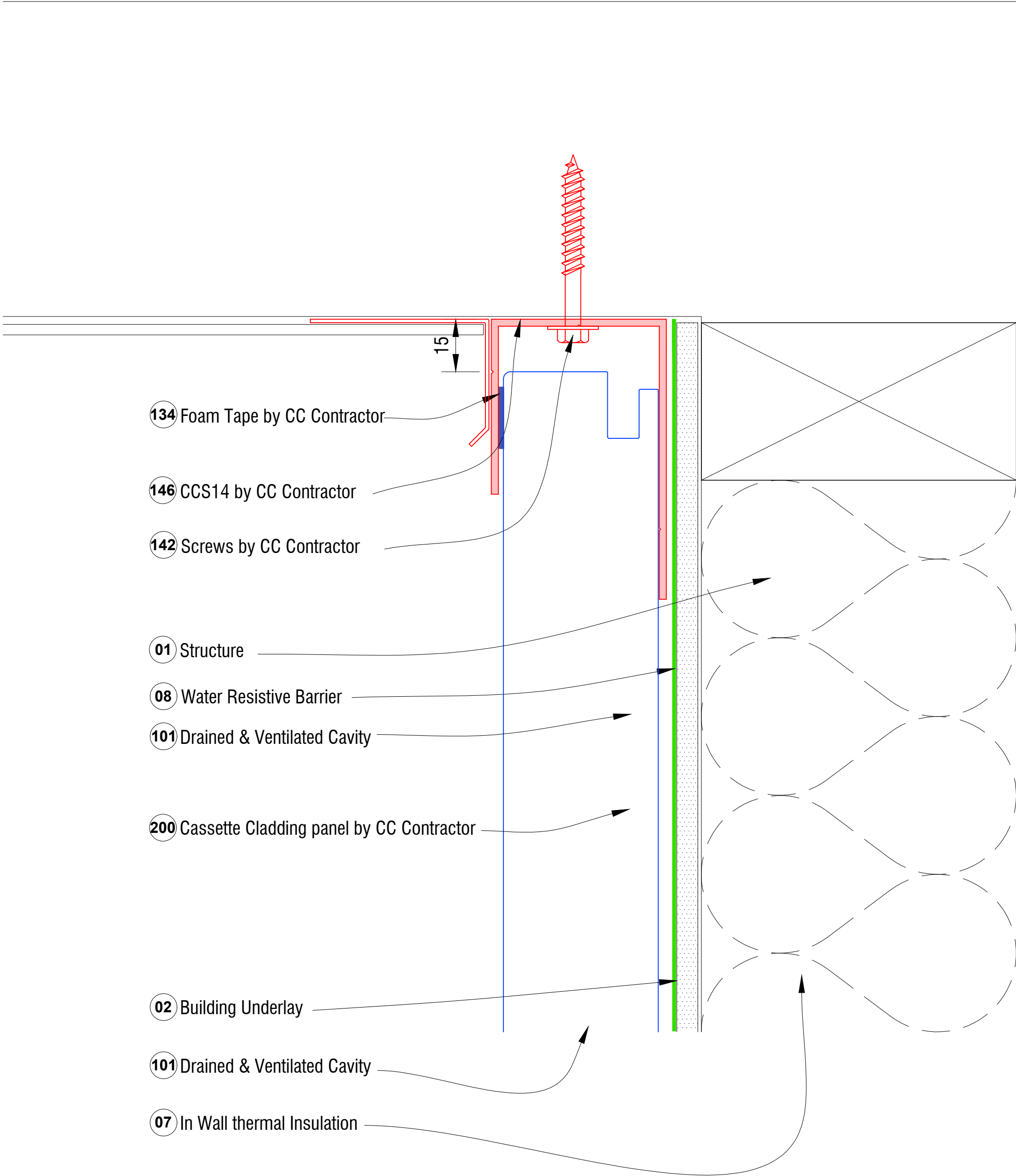
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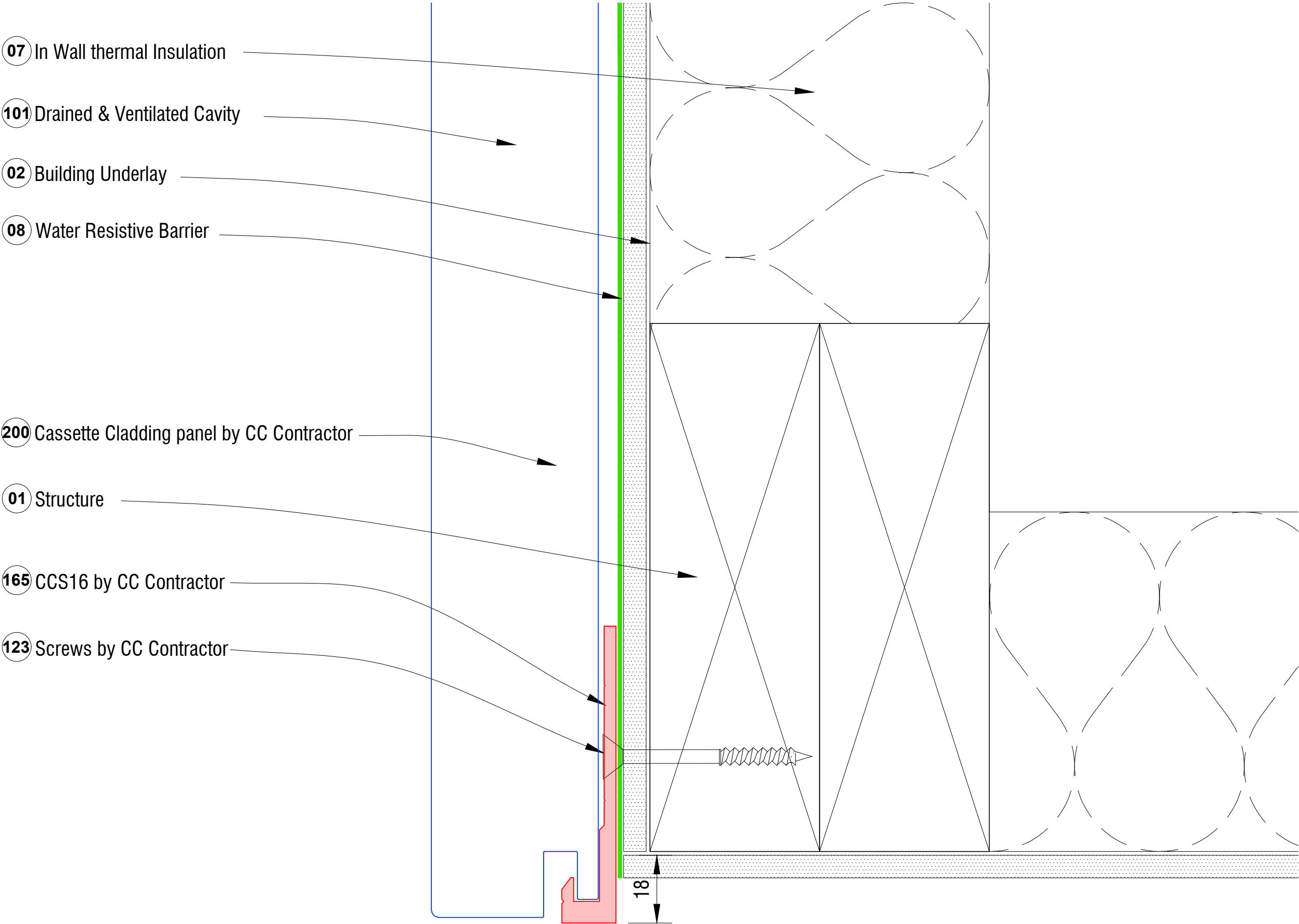
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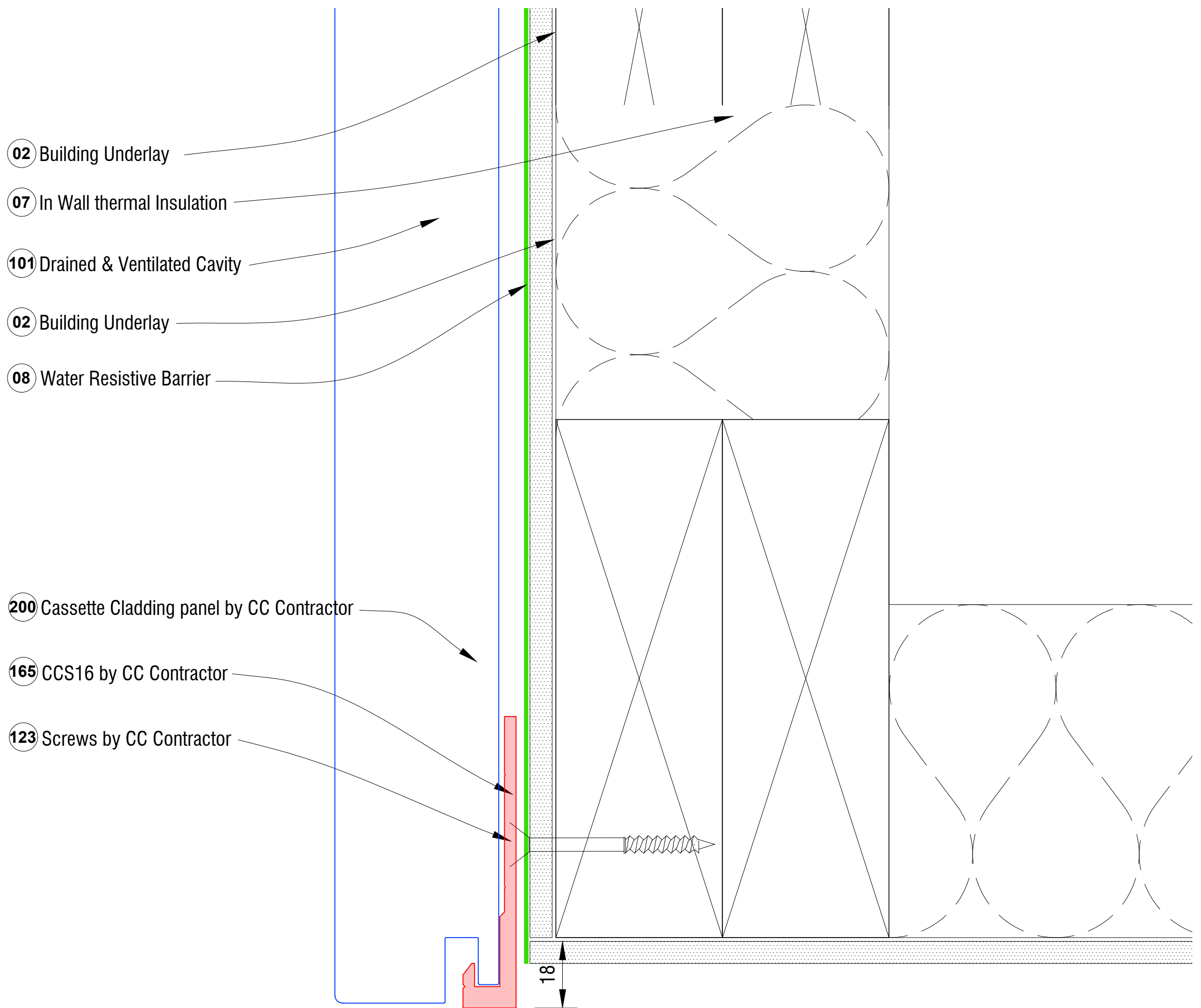
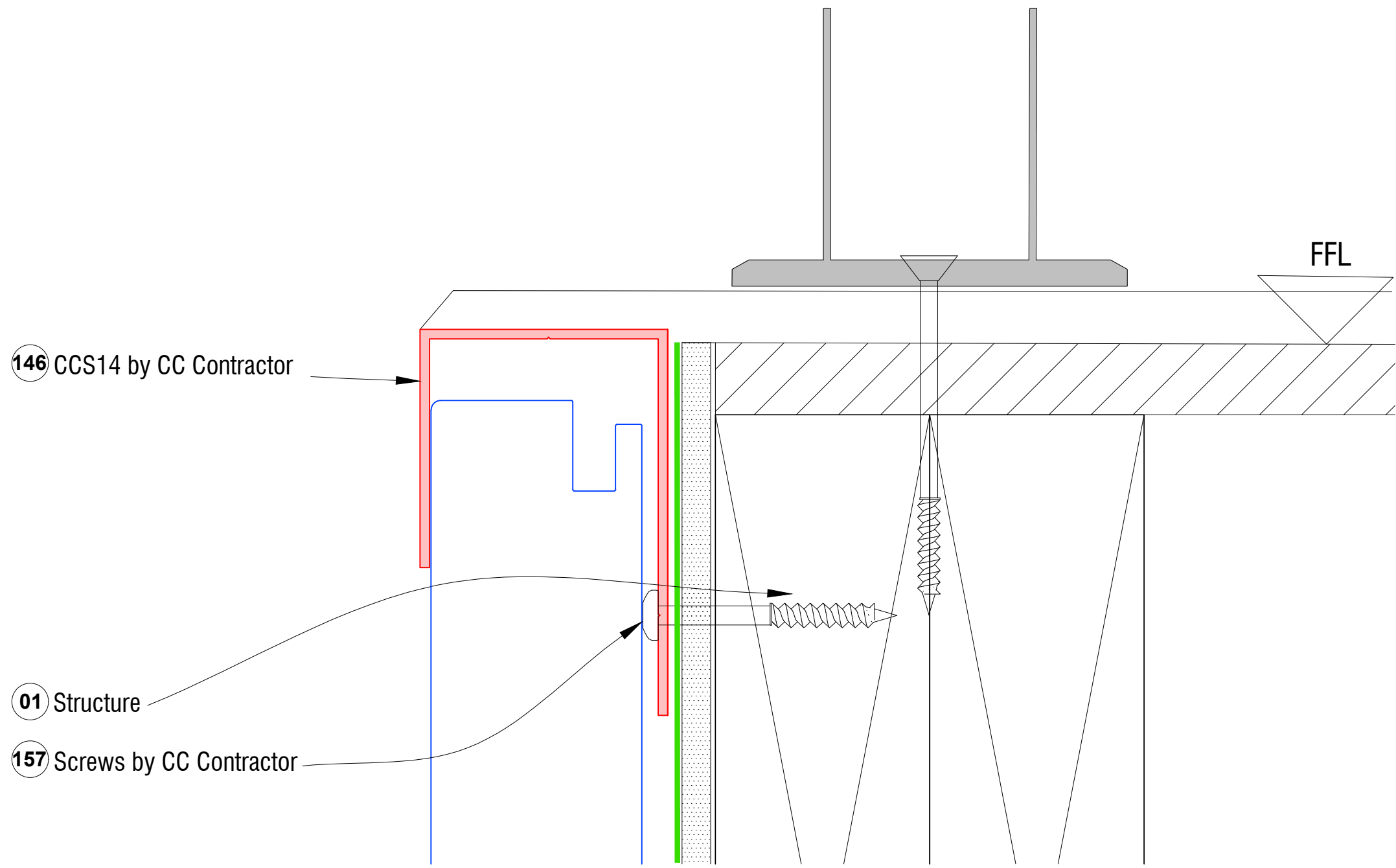


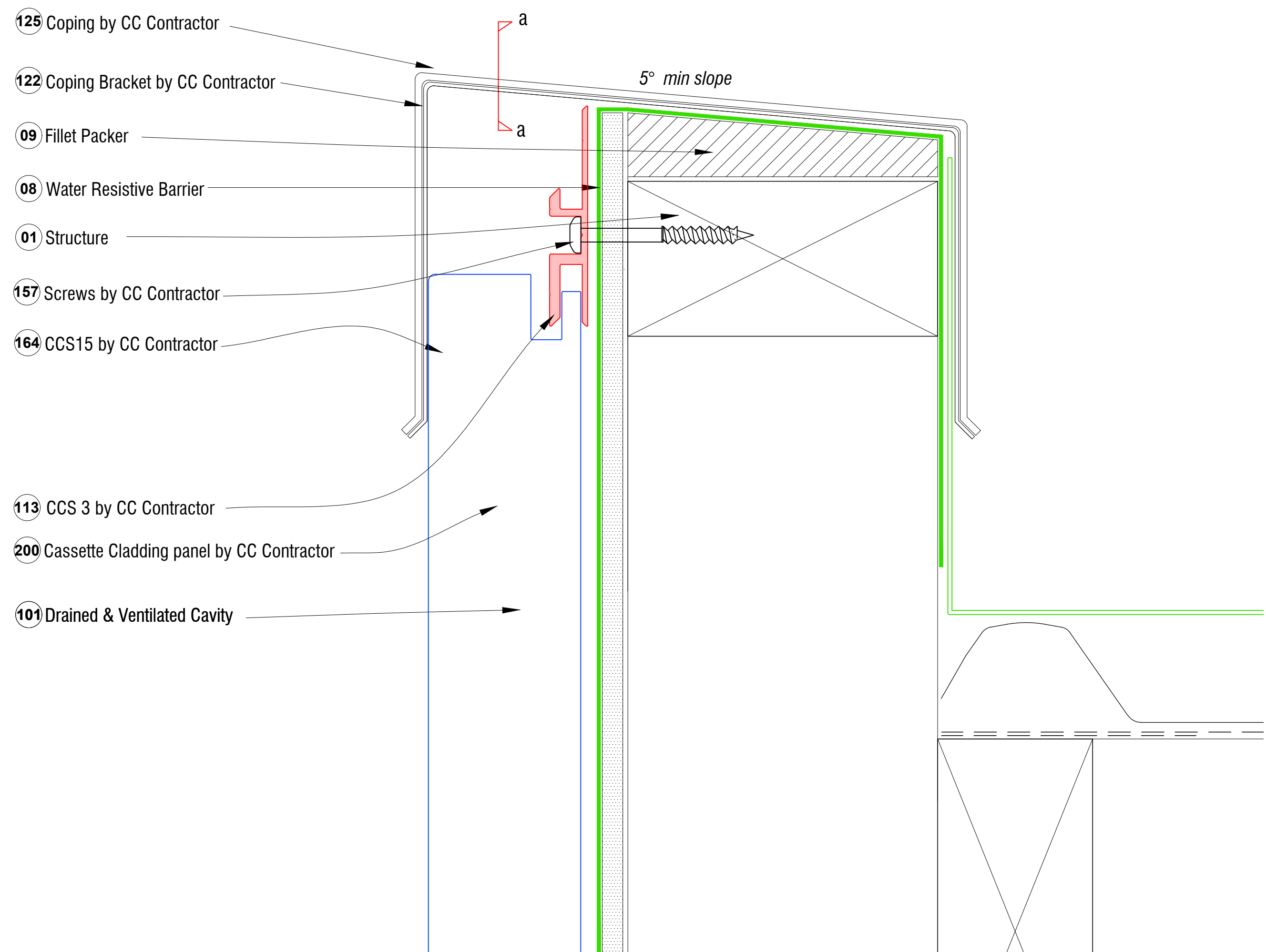
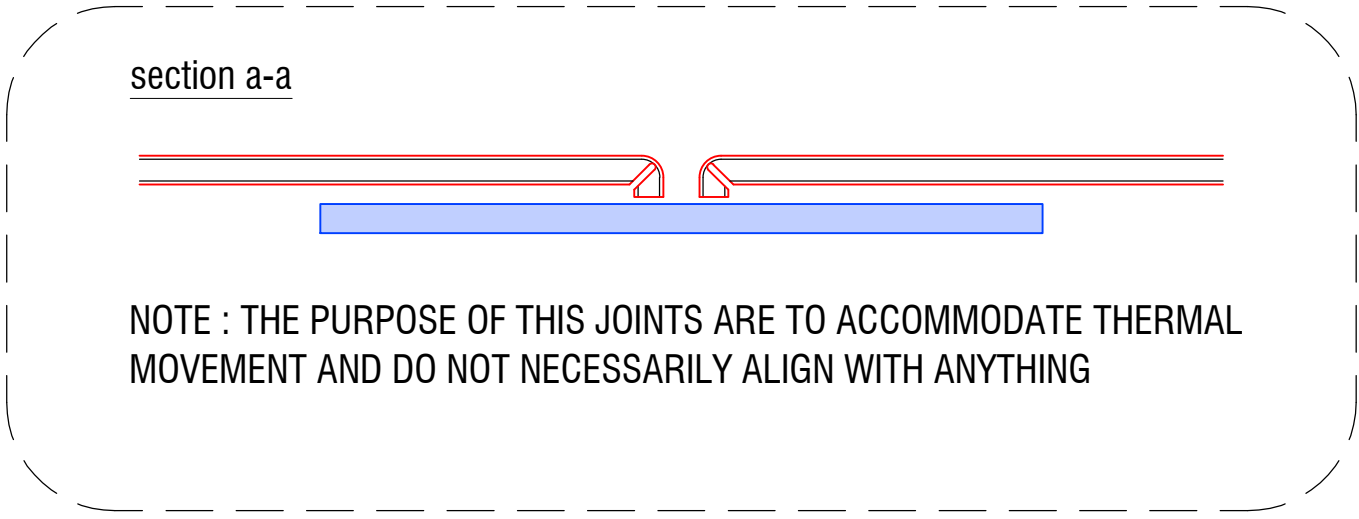
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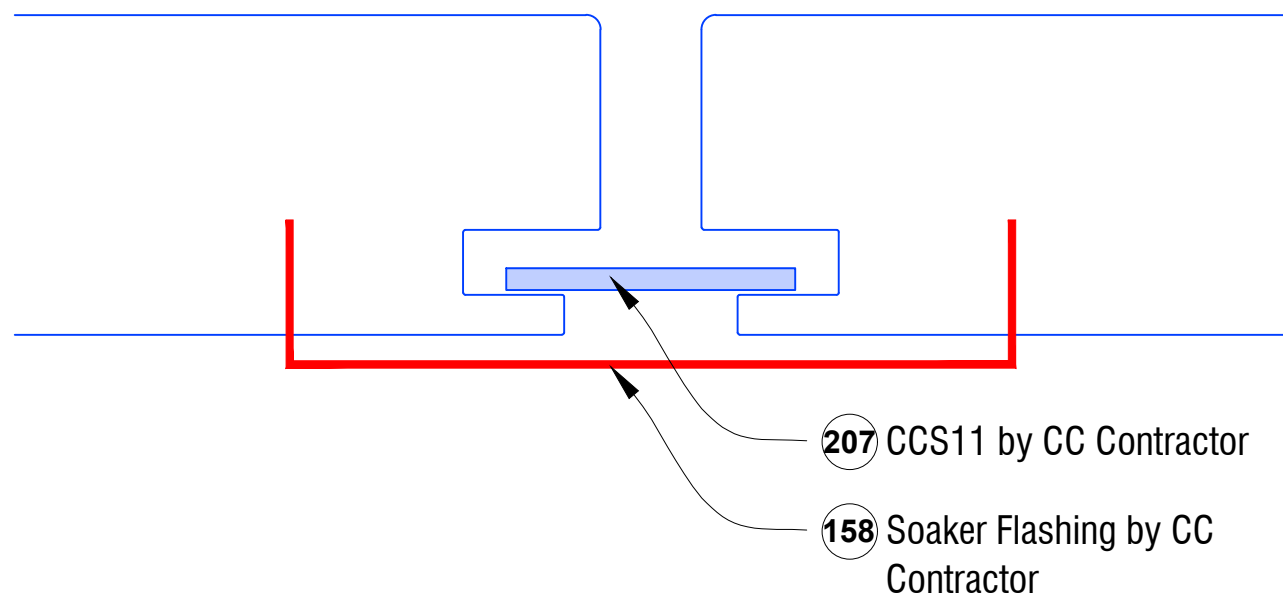




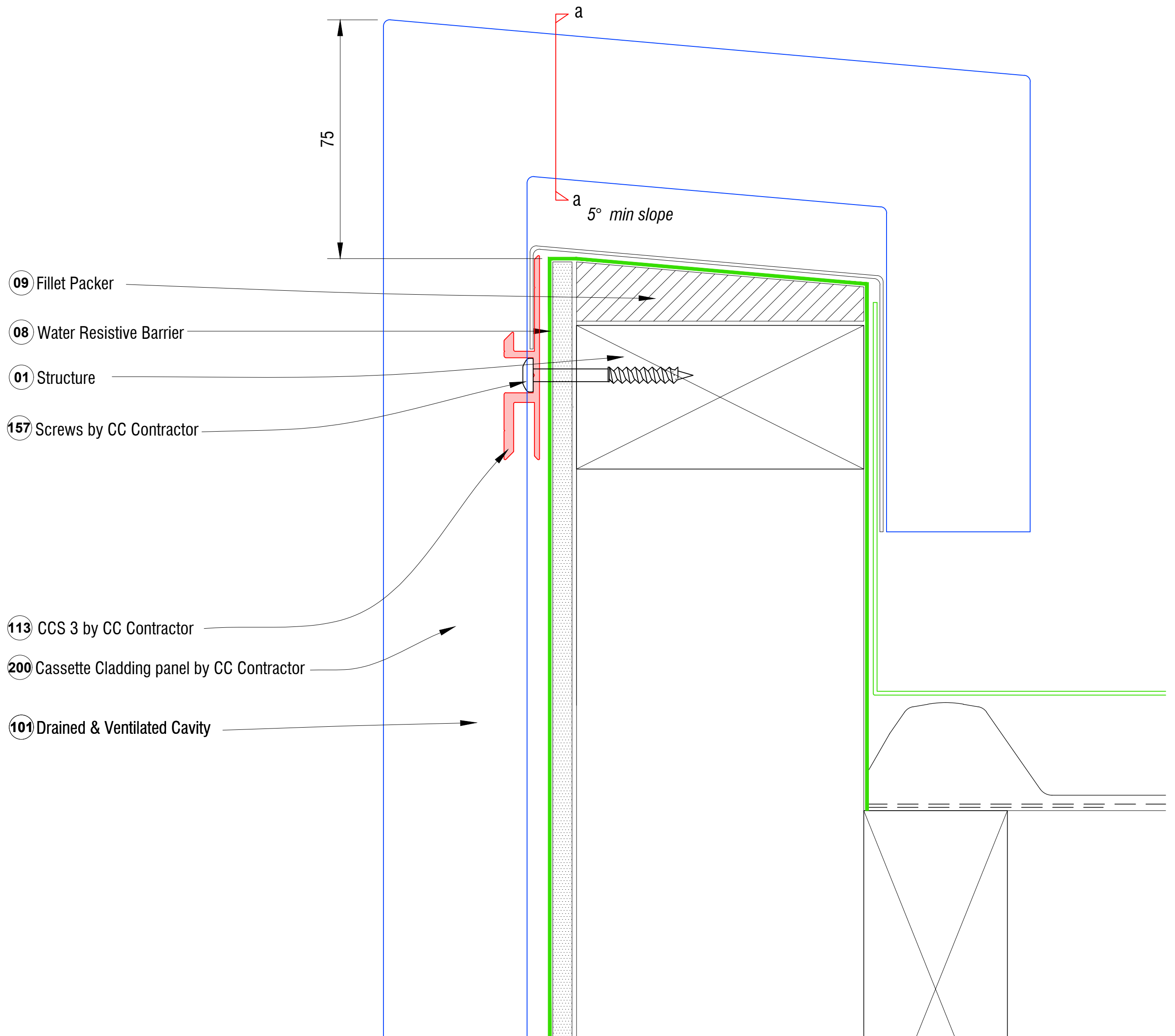


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section a-a



NOTE : THE PURPOSE OF THIS JOINTS ARE TO ACCOMMODATE THERMAL MOVEMENT AND DO NOT NECESSARILY ALIGN WITH ANYTHING



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FASCIA TERMINATION DETAIL

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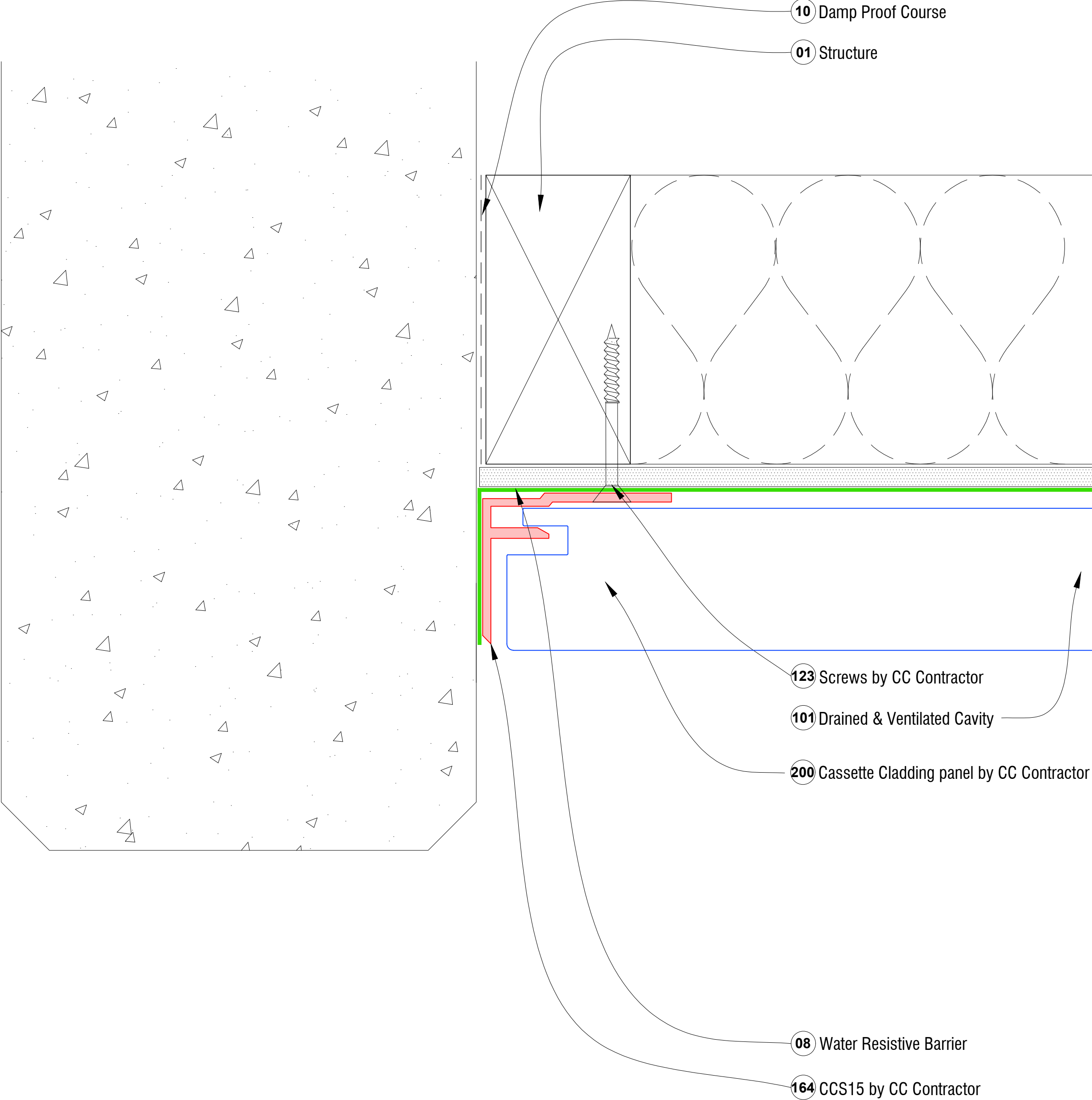
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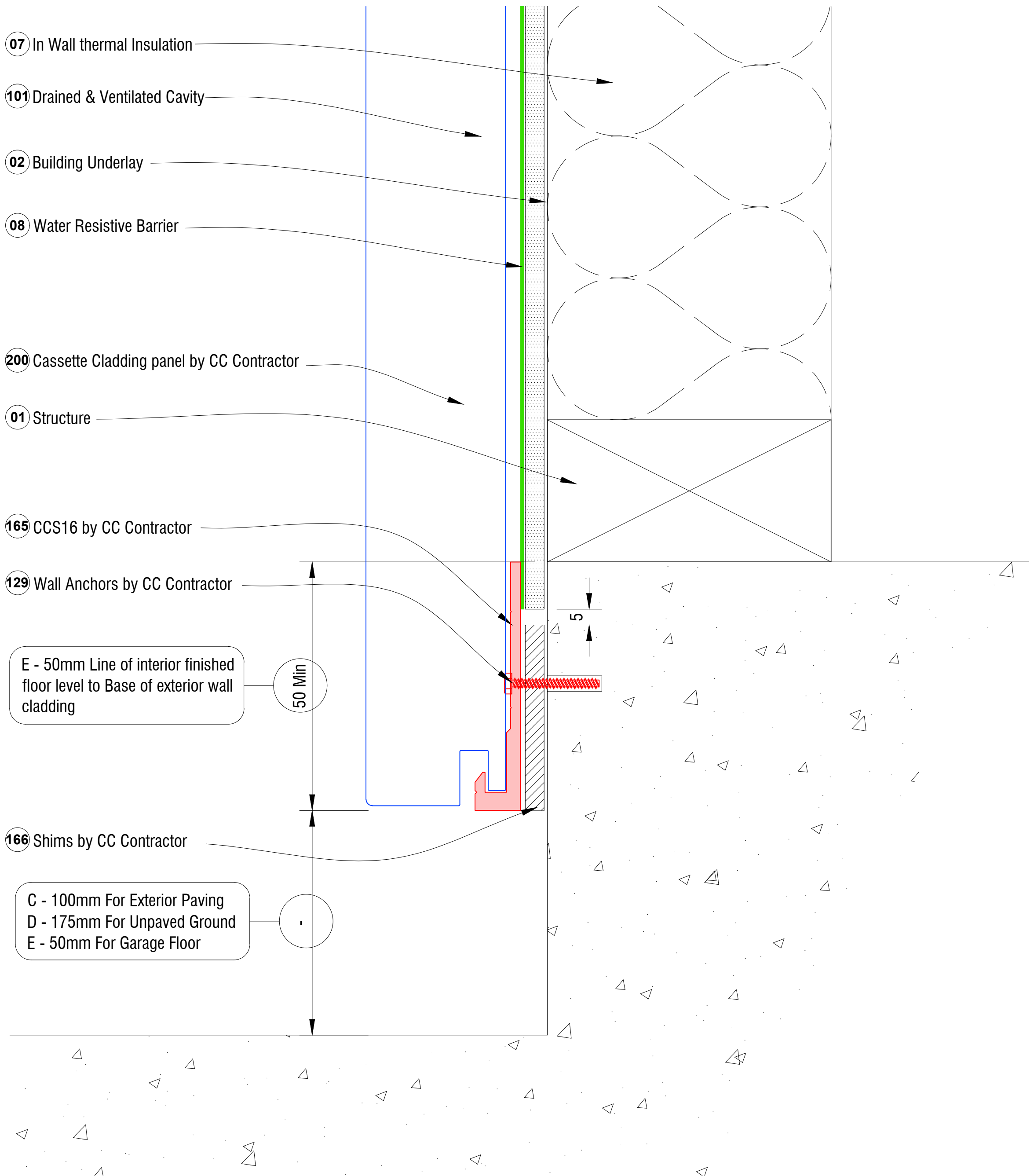
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01 Structure

PURPOSE: Essential for transferring loads (such as wind loads) applied to the Cassette Cladding to the building structure.

Also serves to support the weight of the Cassette Cladding components and maintain their stability relative to one another.

REQUIREMENTS: In addition to meeting requirements for other building works, it must provide fixing positions for the Cassette Cladding components at locations where they transfer weight or require support from the structure.

SUITABLE OPTIONS: Suitably engineered timber framing (to NZS3604) with sufficient members to attach the Cassette Cladding components to. Acceptable construction tolerances for Cassette Cladding would be:

- a. Deviation from vertical – 15mm per 2 storey height (5mm per 2.4m)
- b. Deviation from vertical for buildings more than 2 full storeys – 20mm
- c. Relative displacement between loadbearing walls in adjacent storeys intended to be in vertical alignment – 5mm
- d. Deviation from line in plan in any length up to 10m – 5mm
- e. Deviation from line in plan in any length over 10m – 10mm total
- f. Deviation from horizontal in any length up to 10m – 5mm
- g. Deviation from horizontal in any length over 10m – 10mm total
- h. Straightness of corners (where 2 walls meet at right angles) – 2mm in 2.4m in both studs
- i. Other studs (gradual bow) – 6mm in 2.4m
- j. Wall framing at mid-height under 3m long horizontal straight edge – 6mm gradual bow
- k. Wall framing at mid-height under 1.3m long horizontal straight edge – 1.5mm out of line

Alternatives to timber framing could be steel, concrete, brick or concrete block with *approved alternative* fasteners.

02 Building Underlay

PURPOSE: To manage external moisture Cassette Cladding relies on an Air Barrier to limit the flow of air through the Cladding System. The structural calculations of Cassette Cladding are also based on a wall with an air barrier. It also protects (01) against fire.

SUITABLE OPTIONS: Rigid fibre cement sheets (like 6mm James Hardie RAB), Gypsum based sheets (like GIB Weatherline 13mm) or *approved alternative*. It must be suitable for the buildings design criteria to meet regulatory compliance in addition to wind loading and fire protection measures that may apply.

In New Zealand where wind loading exceeds 1.5kPa a rigid backer board is required. The same tolerances for the 01 Structure would apply here.

03 Flashing

PURPOSE: To manage moisture in the air barrier.

SUITABLE OPTIONS: This flashing may be substituted with metal, flashing tapes, water resistive membranes or even be omitted as determined with suitable testing or where the barrier manufacturer *approves alternatives*.

04 Window Head Flashing

PURPOSE: To divert moisture away from the window frame head.

SUITABLE OPTIONS: Specific flashings may form part of the window suppliers requirements or may be varied by suitable testing like that for Cassette Cladding or as approved by an approved façade engineer.

05 Air Seal

PURPOSE: To avoid or suitably limit air (and accompanying moisture) movement between window / door frames and where they join walls.

SUITABLE OPTIONS: Closed cell foam and sealant are acceptable because it can perform under movement.

06 Window Perimeter Seal

PURPOSE: To avoid or suitably limit air (and accompanying moisture) movement between window / door frames and where they join walls.
SUITABLE OPTIONS: Closed cell foam and sealant are acceptable because it can perform under movement.

07 In wall Thermal Insulation

PURPOSE: To limit thermal transfer through walls.
SUITABLE OPTIONS: Glass wool, rockwool or *approved alternative*.

08 Water Resistive Barrier

PURPOSE: Reduce airflow through the wall and reduces the risk of water penetrating the wall.
SUITABLE OPTIONS: Revealshield SA or *approved alternative*.

09 Fillet Packer

PURPOSE: Forming a stable slope for shedding water and providing an angled base for the coping (125).
SUITABLE OPTIONS: Timber that will remain durable if exposed to constant wetting or *approved alternative*.

10 Damp Proof Course

PURPOSE: A barrier to avoid moisture transfer between concrete and framing.
SUITABLE OPTIONS: Polythene or *approved alternative*

11 Sealant

PURPOSE: To avoid moisture transfer between flashing and underlying structure.
SUITABLE OPTIONS: Sika AT Façade or *approved alternative*

12 Saddle Flashing

PURPOSE: To manage moisture out of the wall in the high risk intersect.
SUITABLE OPTIONS: minimum 1.5mm aluminium or *approved alternative*.

13 Internal Corner Flashing

PURPOSE: To protect the internal corner from moisture that may enter the wall cavity from above.
SUITABLE OPTIONS: 0.6mm galvanized sheet metal, minimum 0.9mm aluminium or *approved alternative*.

14 Flexible Flashing Tape

PURPOSE: Used in combination with air barrier to protect the structure from moisture and air penetration.
SUITABLE OPTIONS: As recommended by the air barrier supplier or *approved alternative*.

15 Penetration Seal

PURPOSE: Stops water penetration at services points into the wall structure through the air barrier.
SUITABLE OPTIONS: Vanluk MG100-18, or as recommended by the air barrier supplier or *approved alternative*.

101 Drained and Ventilated Cavity

PURPOSE: To allow a) space for moisture that may enter the cladding system to freely drain downwards and b) ventilation space for drying the cavity.
SUITABLE OPTIONS: The L Series Cassette Cladding option nominally has a cavity space of 46mm between the water resistive barrier and the reverse face of the cladding panel.

102 Cassette Cladding Thickness

The thickness of the L – 4ACP Cassette Cladding option is nominally 50mm.

103 Panel Thickness

The thickness of Cassette Cladding panels are determined by the panel perimeter frame and that of the cladding panel attached to it.
 The thickness of the L-4ACL Cassette Cladding option for P1 is nominally 44mm and for option P2 nominally 46mm.

104 Joint Width

PURPOSE: Cladding panel sizes are limited in their manufacturing processes, so joints are required to transition between different cladding panels. Practicability in handling large panels and joints used as a visual feature of the Cassette Cladding may therefore also affect maximum cladding panel sizes.
 The design width of the Cassette Cladding joint is nominally 24mm (from panel perimeter frame to frame) to allow insertion of vertical joints strips CCS11 after panels are slotted into position.
 During service of the cladding joints absorb differential movement between panels resulting

from thermal movement in the panels and seismic movements.

SUITABLE OPTIONS: The design width of 24mm for joints widths can be reduced or increased and changed based upon the panel type. Narrower joints may affect the flexibility of panel installation.

110 Screws by CC Contractor

PURPOSE: To fasten non load bearing extrusion to the Structure.

SUITABLE OPTIONS: For attachment to timber 38mm 10G 304 Grade Pan Head Square Drive wood screw.

113 CCS3 by CC Contractor

PURPOSE: A proprietary Cassette Cladding support rail to connect the Cassette Cladding panels to the structure directly or through intermediary members like CCS8/12. It manages moisture, thermal movement, and seismic movement at the horizontal panel joint and in combination with the P01 and P02 perimeter frames allows simple removable installation of panels.

SUITABLE OPTIONS: Rails are 6060/T5 aluminium and are provided as standard 3000mm long.

Surface finishing options are powder coated or anodized.

119 Screws by CC Contractor

PURPOSE: To interconnect Cassette Cladding components.

SUITABLE OPTIONS: 25mm Pan Head Square Drive 10G 410 Grade Martensitic stainless steel self-drilling screw.

121 Edge Grip by CC Contractor

PURPOSE: A proprietary slotted angle to interconnect Cassette Cladding cover plates to the Structure.

SUITABLE OPTIONS: The Edge Grip profile are provided as standard 3000mm long.

Surface finishing options are powder coated or anodized.

122 Coping bracket by CC Contractor

PURPOSE: To interconnect the Coping to the Structure.

SUITABLE OPTIONS: 100mm long mill finish 3mm aluminium or *approved alternative* between coping joins to support the coping – maximum 1200mm c/c.

123 Screws by CC Contractor

PURPOSE: To fasten Coping brackets and jointers to the Structure.

SUITABLE OPTIONS: For attachment to timber 50mm 10G 304 Grade Counter Sunk Square Drive wood screw.

124 Underlay by CC Contractor

PURPOSE: A membrane to separate treated timber framing from aluminium to avoid undue corrosion caused by the timber treatment agents that may react with the aluminium.

SUITABLE OPTIONS: Thermakraft Covertex 405 or *approved alternative*.

125 Coping by CC Contractor

PURPOSE: Providing a durable cover to the top of the wall to deflect water from the cladding cavity.

SUITABLE OPTIONS: Provided in 2400mm long 3mm aluminium or *approved alternative*.

Finishes may be paint or powder coat.

126 Coping jointer by CC Contractor

PURPOSE: A jointer that can absorb movement and align different copings and shed moisture where the coping sections meet. To interconnect the Coping to the Structure.

SUITABLE OPTIONS: 250mm long 3mm aluminium or *approved alternative*. Finishes may be paint or powder coat. 200mm long at joins and 300mm long at expansion joins not exceeding 8000mm apart¹.

127 Fillet Seal by CC Contractor

PURPOSE: To provide a seal between the Cassette Cladding component and the air barrier for water and fire management. It may also act as a visual remedy for gaps in some instances.

SUITABLE OPTIONS: Sika AT Façade for general applications or *approved alternative*. BOSS Fire Mastic 300 for fire risk design applications.

¹ Acceptable Solution E2/AS1 section 6.3 & 6.4

128 Bed of sealant by CC Contractor

PURPOSE: To avoid interconnection of Cassette Cladding components with concrete and to assist with weather proofing.

SUITABLE OPTIONS: Sika AT Façade sealant or *approved alternative*.

129 Wall anchors by CC Contractor

PURPOSE: To fasten Cassette Cladding components to concrete.

SUITABLE OPTIONS: 30mm x 6mm wall anchors minimum 304 gr stainless steel or *approved alternative*.

130 Selected Facing Skirting by CC Contractor

PURPOSE: To provide a visual trim, ventilation gaps and vermin proofing to the bottom edge of a Cassette Cladding wall cavity.

SUITABLE OPTIONS: As per 201 Selected facing by CC Contractor or *approved alternative*.

131 Gap seal by CC Contractor

PURPOSE: Required for vermin proofing when the gap exceeds 5mm.

SUITABLE OPTIONS: Sika AT Façade sealant or *approved alternative*.

132 Ventilation Holes by CCS Contractor

PURPOSE: Ventilation holes to facilitate air movement and resulting drying of the cladding cavity.

SUITABLE OPTIONS: 6mm diameter holes @ 500c/c or *approved alternative*.

134 Foam Tape by CC Contractor

PURPOSE: To avoid vibration that may occur between Cassette Cladding components.

SUITABLE OPTIONS: 3 x 15mm single sided foam tape or *approved alternative*.

146 CCS14 by CC Contractor

PURPOSE: A proprietary Cassette Cladding termination channel to connect the Cassette Cladding panels directly to the structure or to other Cassette Cladding components. It manages moisture, thermal movement, and seismic movement at the top horizontal panel edge. It secures the top edges of P01 and P02 and allows simple removable installation of panels.

SUITABLE OPTIONS: Rails are 6060/T5 aluminium and are provided as standard 3000mm long.

Surface finishing options are powder coated or anodized.

152 Panel Catch by CC Contractor

PURPOSE: To avoid uncontrolled release of Cassette Cladding panels in the event of a fire.

SUITABLE OPTIONS: Two-part 3mm aluminium shape protected with 50 x 80mm rockwool at its base.

153 Screws by CC Contractor

PURPOSE: For attachment of items 149 and 151.

SUITABLE OPTIONS: 75mm 12 Gauge Stainless Steel Screw.

157 Screws by CC Contractor

PURPOSE: To fasten load bearing extrusion to the Structure.

SUITABLE OPTIONS: For attachment to timber 50mm 10G 304 Grade Pan Head Square Drive wood screw.

158 Soaker Flashing by CC Contractor

PURPOSE: To drain moisture.

SUITABLE OPTIONS: 0,9mm aluminium minimum.

164 CCS15 by CC Contractor

PURPOSE: To connect panel frames to the structure.

SUITABLE OPTIONS: Extruded 6060/T5 aluminium. Finish in anodized or powder coat

165 CCS16 by CC Contractor

PURPOSE: Horizontal edge support to bottom edge of panel.

SUITABLE OPTIONS: 6060/T5 aluminium. Finish in anodized or powder coat.

166 Shim by CC Contractor

PURPOSE: To provide firm support and align extruded members.

SUITABLE OPTIONS: High density polyethylene.

200 Cassette Cladding panel by CC Contractor

PURPOSE: To provide a structurally sound cladding surface to the wall.

SUITABLE OPTIONS:

3mm prefinished aluminium, like Alucolux, Panelux, Mondoclad, 3mm powder coated aluminium or *approved alternative*.

Refer notes 102 & 103 for offset of the surface from the wall underlay and note 014 for joint widths.

207 Joint Clamp by CC Contractor

PURPOSE: For locking panels into position after they have been positioned between support rails.

SUITABLE OPTIONS: Proprietary CCS11 manufactured in 6060/T5 aluminium. Finish in anodized or powder coat.

234 External Corner Trim by CC Contractor

PURPOSE: To provide a tidy finish to vertical external corners.

SUITABLE OPTIONS: Same as 201.