

D 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:

- D Series Brochure
- D Series Design Guide
- D Series Installation Guide

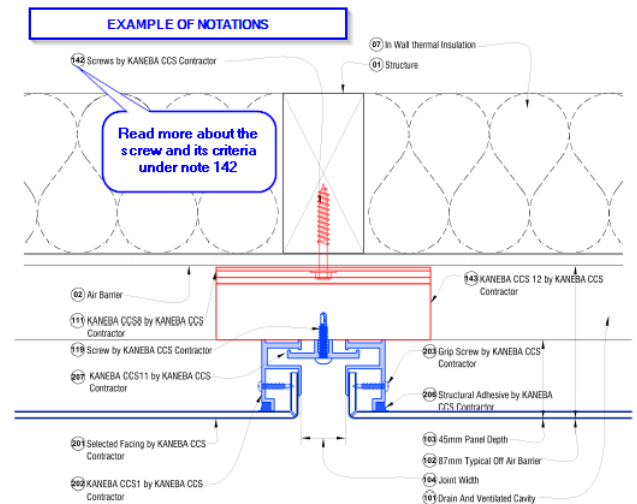
The details have a limited amount of information on them. Refer to the annotation section following the details to obtain further clarification on requirements and component limitations shown on these details.

The purpose of these notations are to elaborate on the details depicting the Cassette Cladding, given that there is limited space on the detail pages itself – like how architectural drawings will be supplemented with a specification.

Each notation may be affected by other nations in this document. The entire document should therefore be considered when reading 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

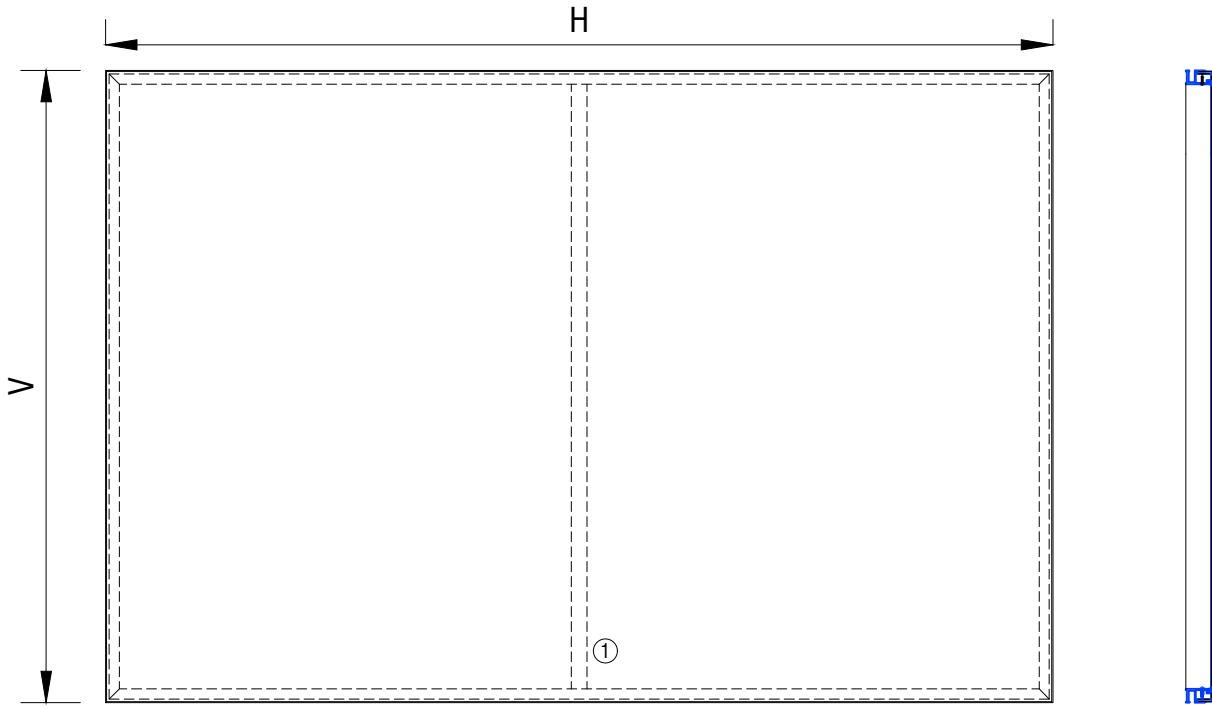
Approved alternative means by a suitable group of professionals not limited to product supplier, fire engineer, structural engineer, façade engineer, architect and ultimately territorial authority.



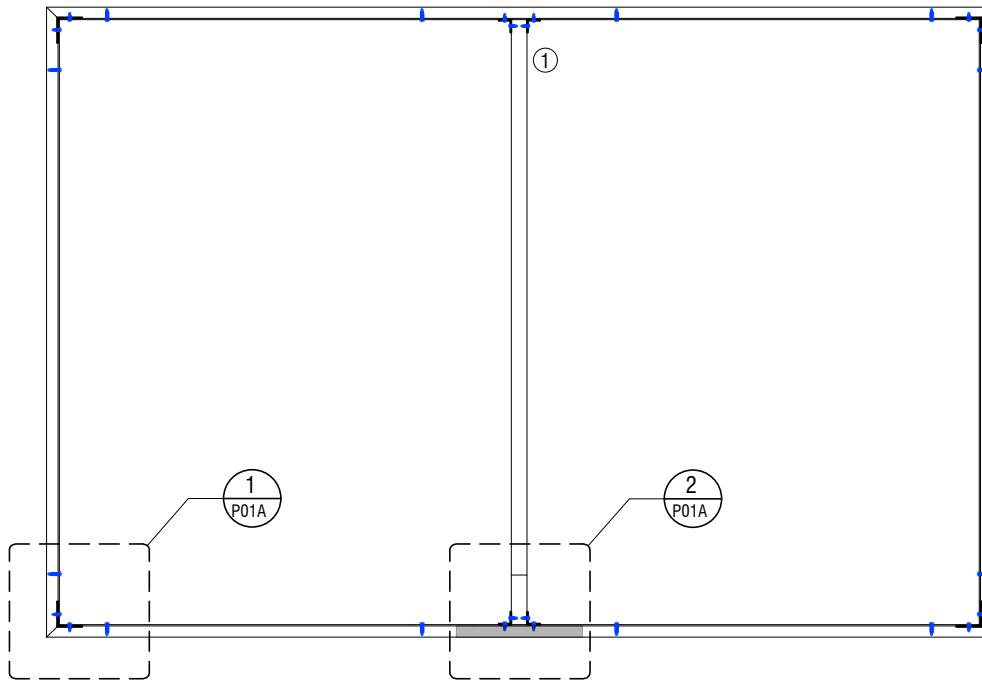
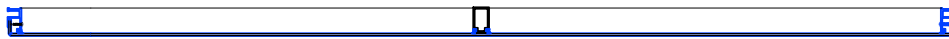
These clarifications must not be relied upon as project specific design information. Where comments are made in relation to other components, like the timber structure that is not forming part of the Cassette Cladding contractors scope, the comments are additional to and not in substitution of NZBC compliance requirements.

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

DRAWINGS OF PANEL TYPES AND OPTIONS



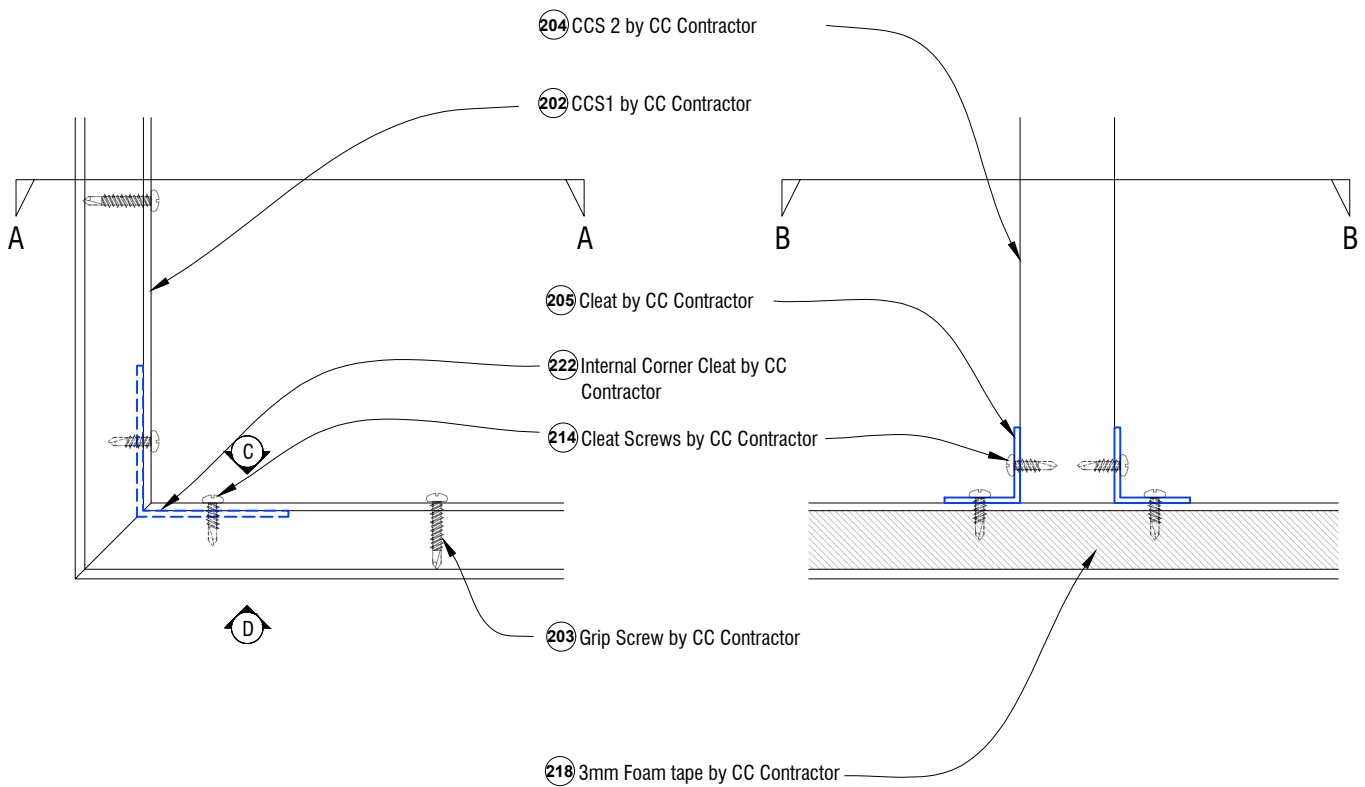
TYPICAL PANEL FRONT VIEW



TYPICAL PANEL BACK VIEW

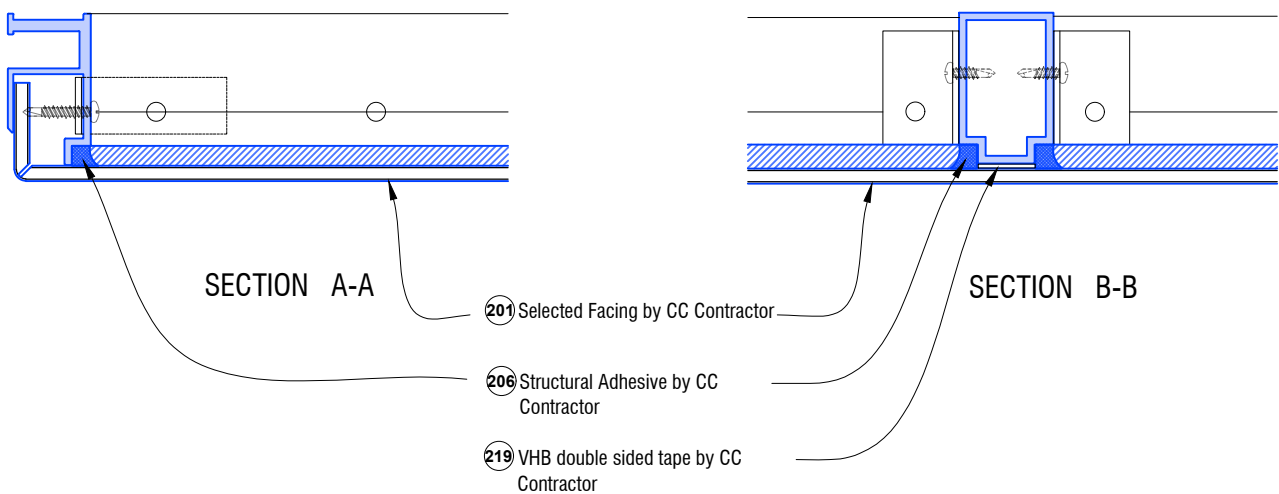
① NUMBER OF CCS2 STIFFENING BARS DETERMINED BY LEVEL OF DEFLECTION PERMITTED

	DRAWING TITLE	NOTES:	DRAWING STATUS		
	<p>CCS1 FACING PANEL</p>	<p>THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL, SPECIFICALLY ALSO STUDY THE NOTATIONS ☒ USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.</p>	<p>ARCHITECTURAL RESOURCE</p>	<p>SHEET NO. P01</p>	<p>ISSUE A</p>
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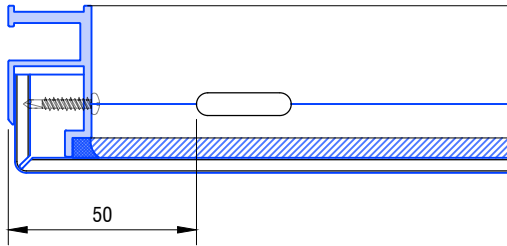


1 EXTERNAL CORNER CONNECTION

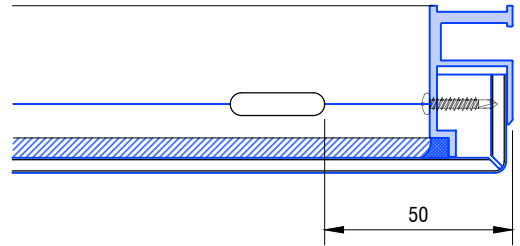
2 STIFFENER CONNECTION



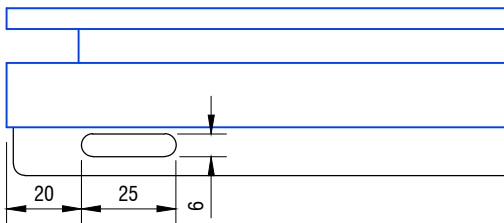
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			ISSUE A	
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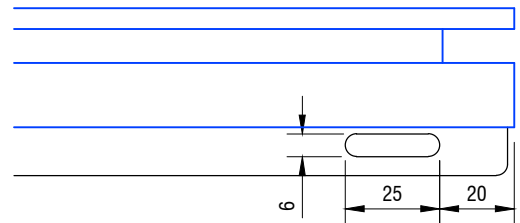
LEFT SECTION VIEW VENTILATION HOLE



RIGHT SECTION VIEW VENTILATION HOLE



LEFT BOTTOM VIEW DRAINAGE SLOT



RIGHT BOTTOM VIEW DRAINAGE SLOT

	DRAWING TITLE	NOTES:	DRAWING STATUS		
	CCS1 FACING PANEL DRAINAGE + VENTILATION	THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL , SPECIFICALLY ALSO STUDY THE NOTATIONS USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.	ARCHITECTURAL RESOURCE	SHEET NO. P01B	ISSUE A
DRAWN BY: JC		SCALE: 1:2	DATE: SEPTEMBER 2019		
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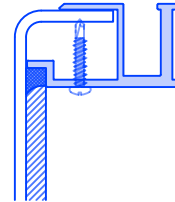
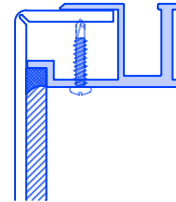
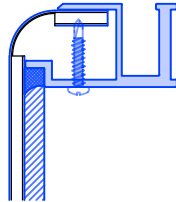
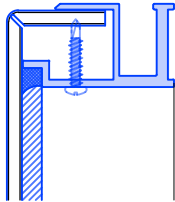
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OPTION 1

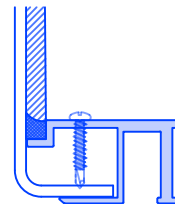
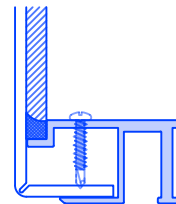
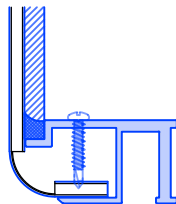
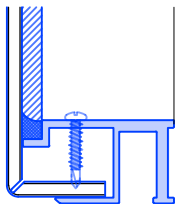
OPTION 2

OPTION 3

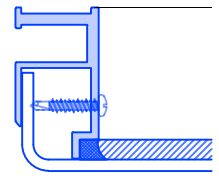
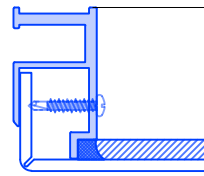
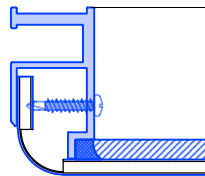
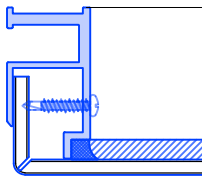
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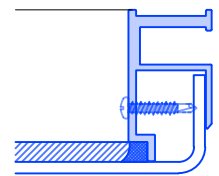
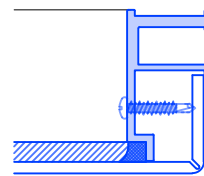
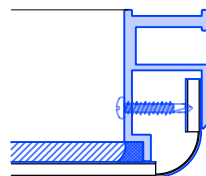
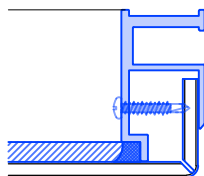
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BOTTOM

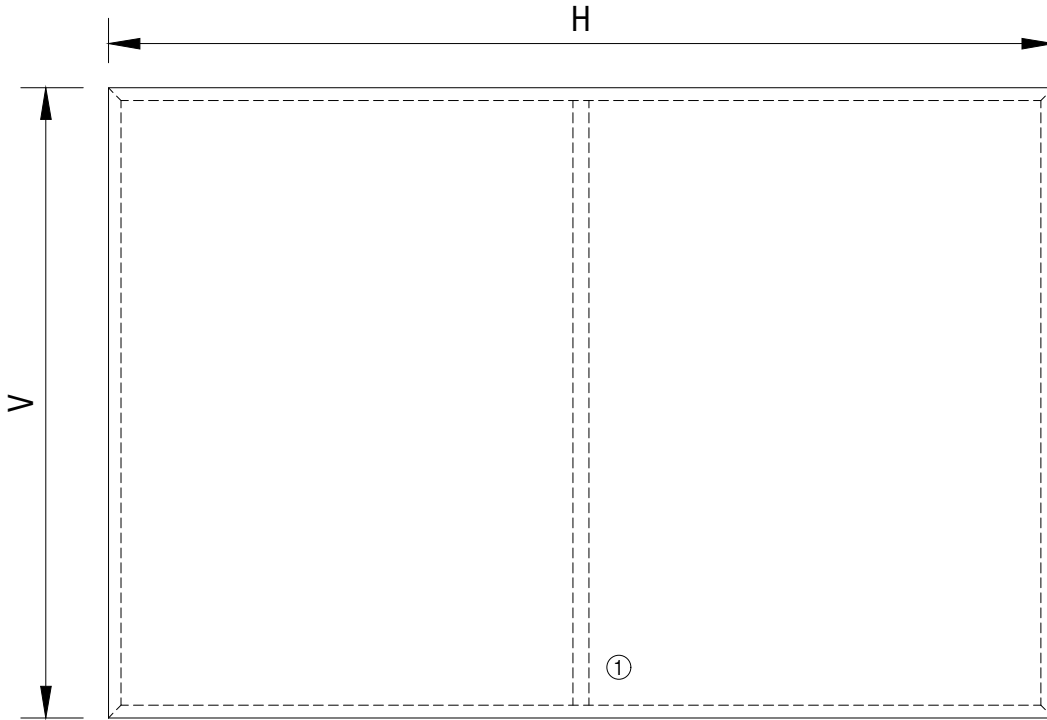


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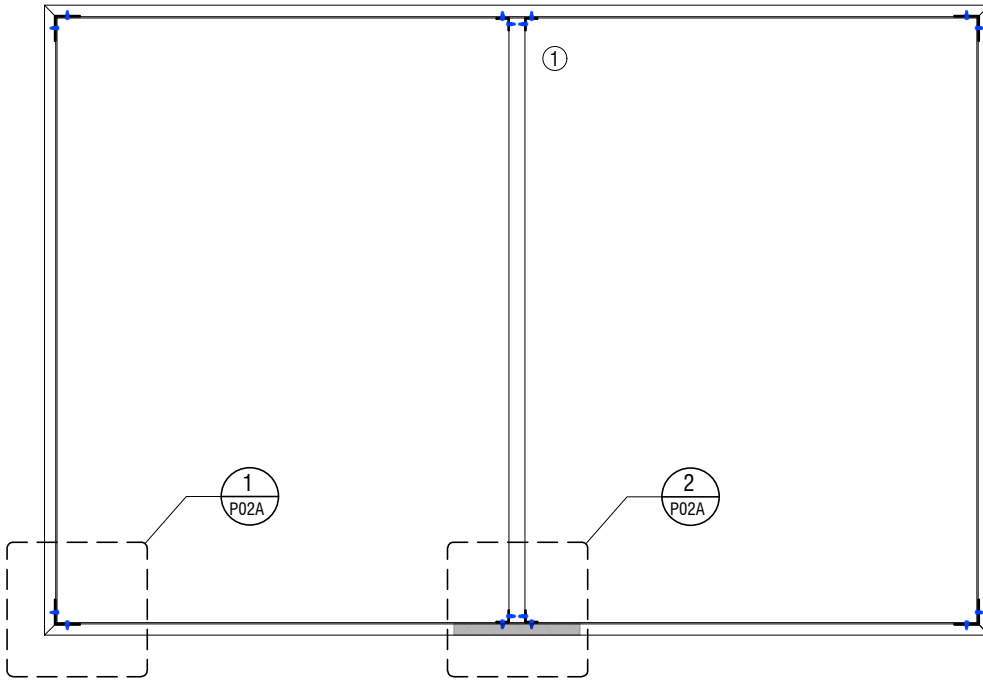


RIGHT

	<p>DRAWING TITLE</p> <p>EDGE SHAPE OF FACING PANELS (CCS1/ITEM 202)</p>	<p>NOTES:</p> <p>THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL, SPECIFICALLY ALSO STUDY THE NOTATIONS USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.</p>	<p>DRAWING STATUS</p> <p>ARCHITECTURAL RESOURCE</p>	<p>SHEET NO.</p> <p>P01C</p>	<p>ISSUE</p> <p>A</p>
	<p>DRAWN BY: JC</p>		<p>SCALE: 1:2</p>	<p>DATE: SEPTEMBER 2019</p>	



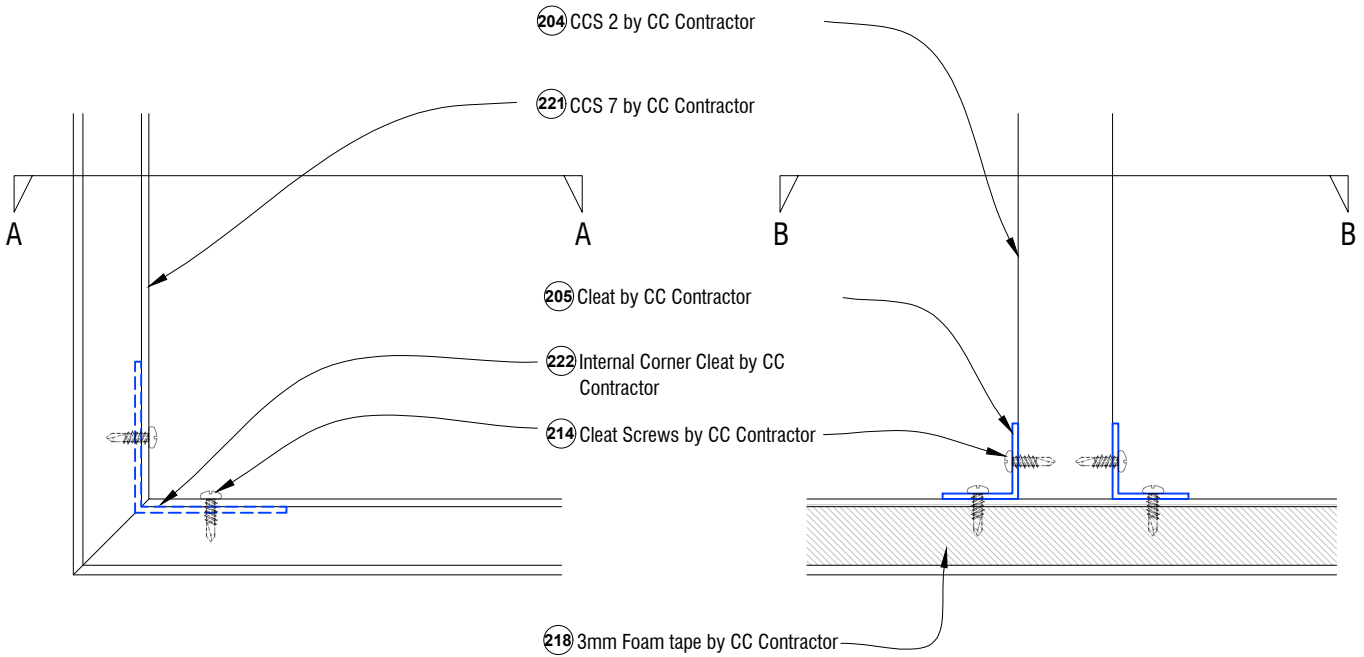
TYPICAL PANEL FRONT VIEW



TYPICAL PANEL BACK VIEW

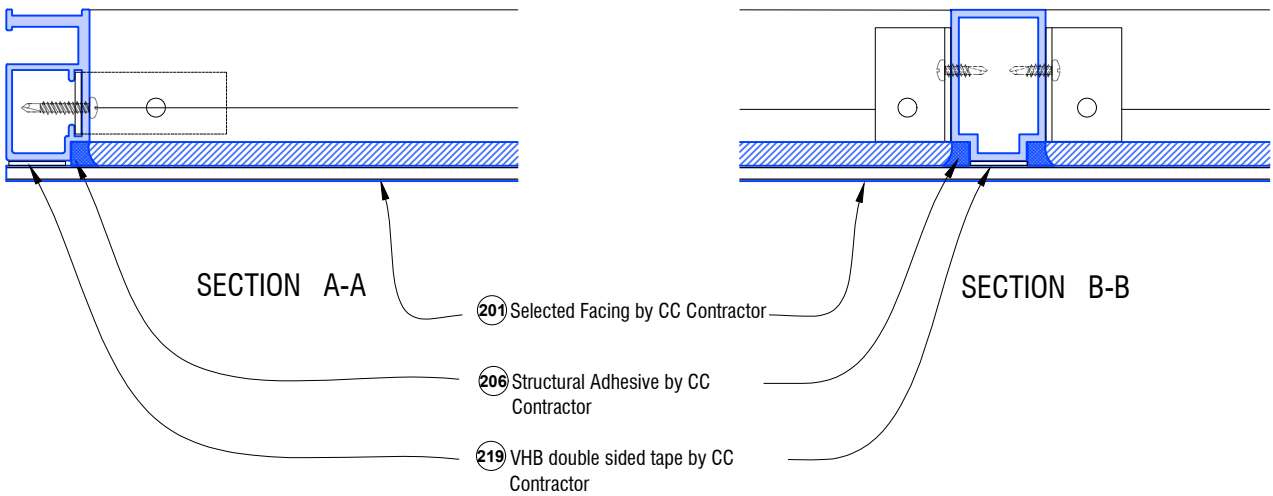
① NUMBER OF CCS2 STIFFENING BARS DETERMINED BY LEVEL OF DEFLECTION PERMITTED

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	<p>CCS7 FACING PANEL</p>	<p>THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL, SPECIFICALLY ALSO STUDY THE NOTATIONS ☺ USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.</p>	<p>ARCHITECTURAL RESOURCE</p>	<p>SHEET NO. P02</p>	<p>ISSUE A</p>
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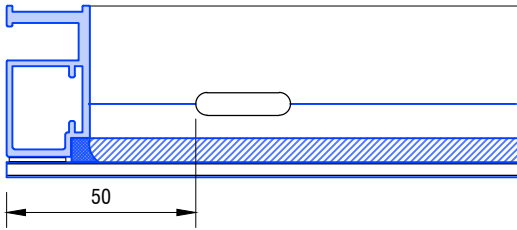


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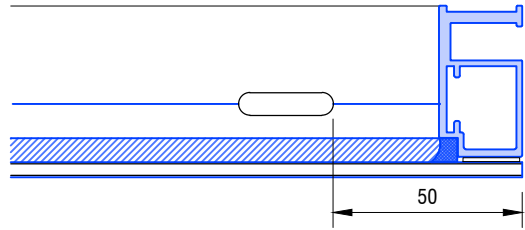
2 STIFFENER CONNECTION



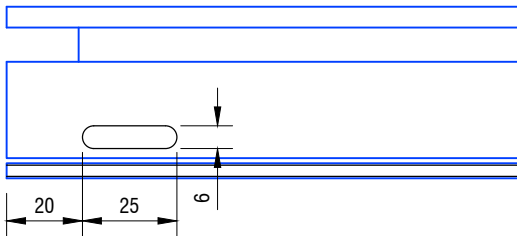
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			ISSUE A	
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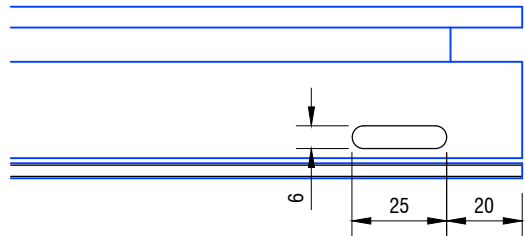
LEFT SECTION VIEW VENTILATION HOLE




RIGHT SECTION VIEW VENTILATION HOLE



LEFT BOTTOM VIEW DRAINAGE SLOT



RIGHT BOTTOM VIEW DRAINAGE SLOT

	DRAWING TITLE	NOTES:	DRAWING STATUS	
	CCS7 FACING PANEL DRAINAGE + VENTILATION	THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL, SPECIFICALLY ALSO STUDY THE NOTATIONS ☺ USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.	ARCHITECTURAL RESOURCE	SHEET NO.
			P02B	ISSUE
			DRAWN BY: JC	SCALE: 1:2
			DATE: SEPTEMBER 2019	

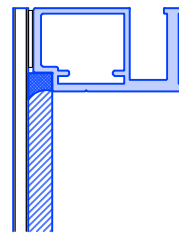
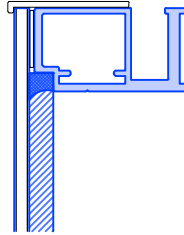
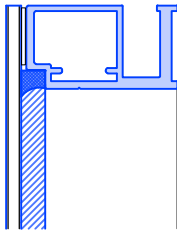
FOLDABLE OR NON-FOLDABLE FACING SHEET

OPTION 1

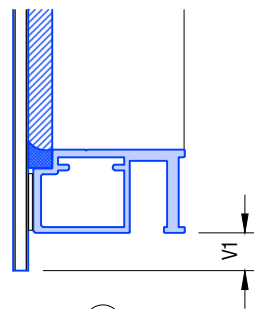
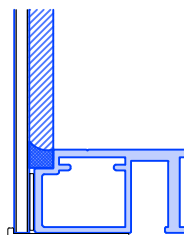
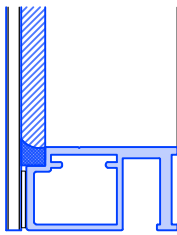
OPTION 2

OPTION 3

TOP



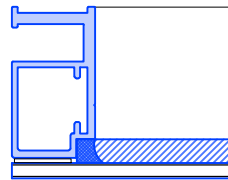
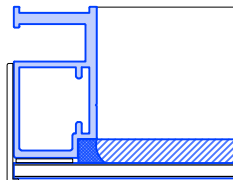
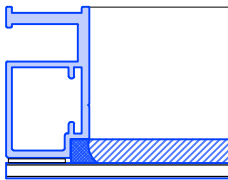
BOTTOM



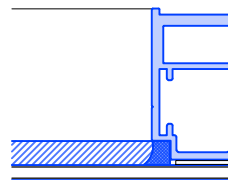
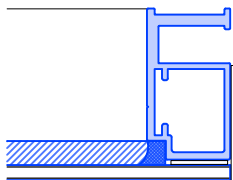
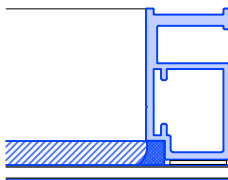
⊛

⊛

LEFT



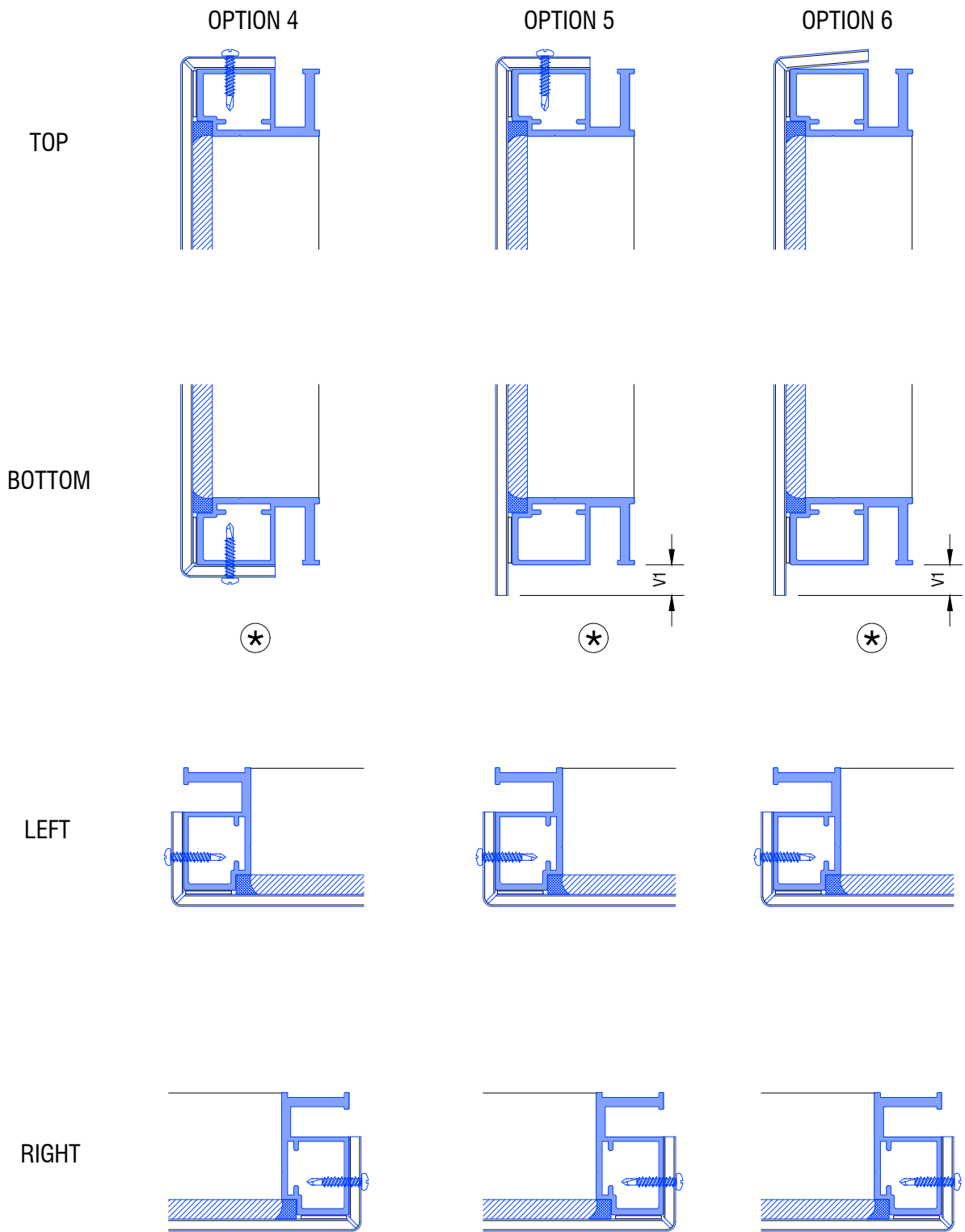
RIGHT



⊛ CAN NOT BE USED WITH CCS9 SUPPORT RAIL

	DRAWING TITLE	NOTES:	DRAWING STATUS		
	EDGE SHAPE OF FACING PANELS (CCS7/ITEM 221)	THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL, SPECIFICALLY ALSO STUDY THE NOTATIONS ⊛ USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.	ARCHITECTURAL RESOURCE	SHEET NO. P02C	ISSUE A
			DRAWN BY: JC	SCALE: 1:2	DATE: SEPTEMBER 2019
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FOLDABLE FACING SHEET

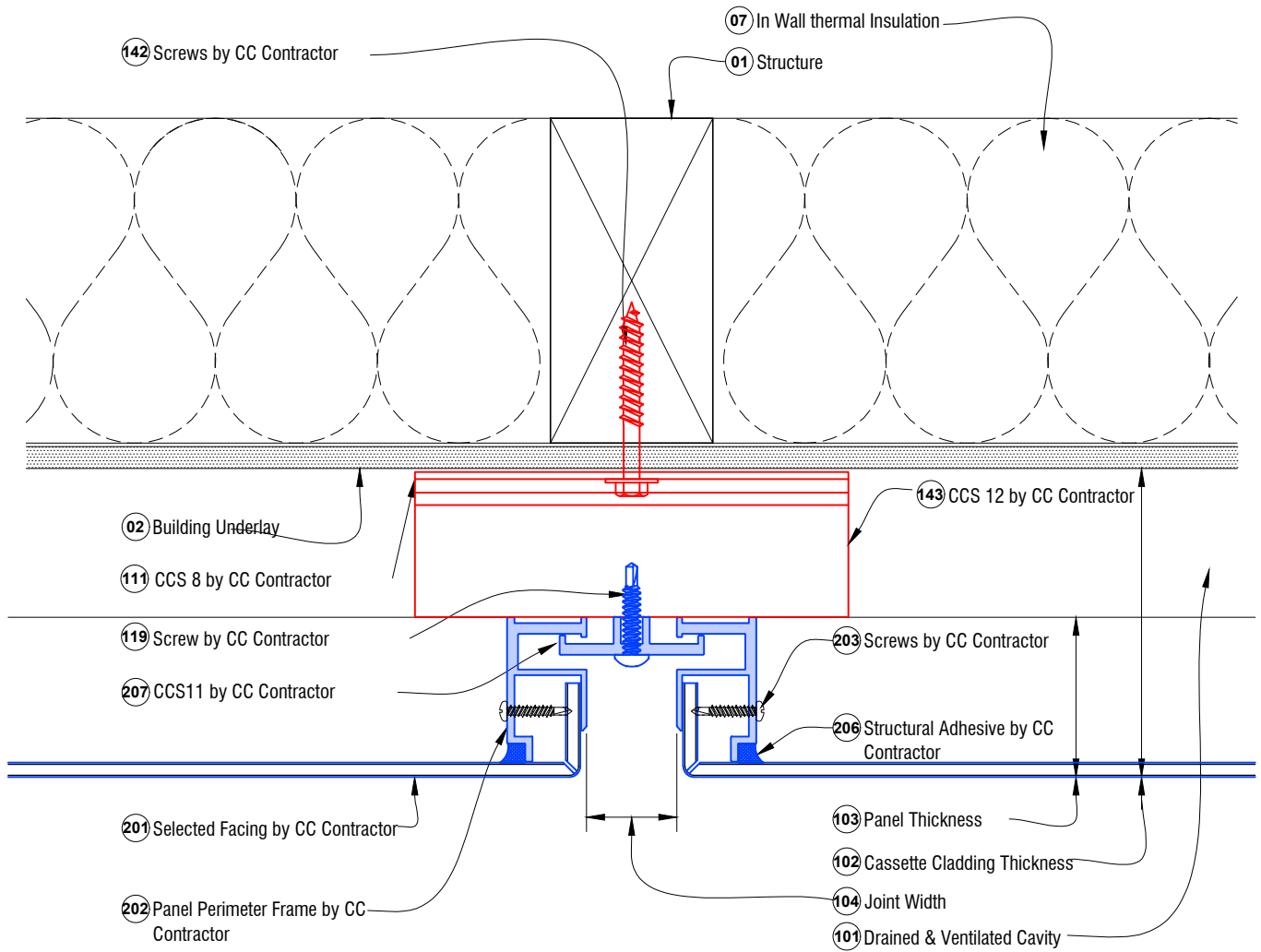


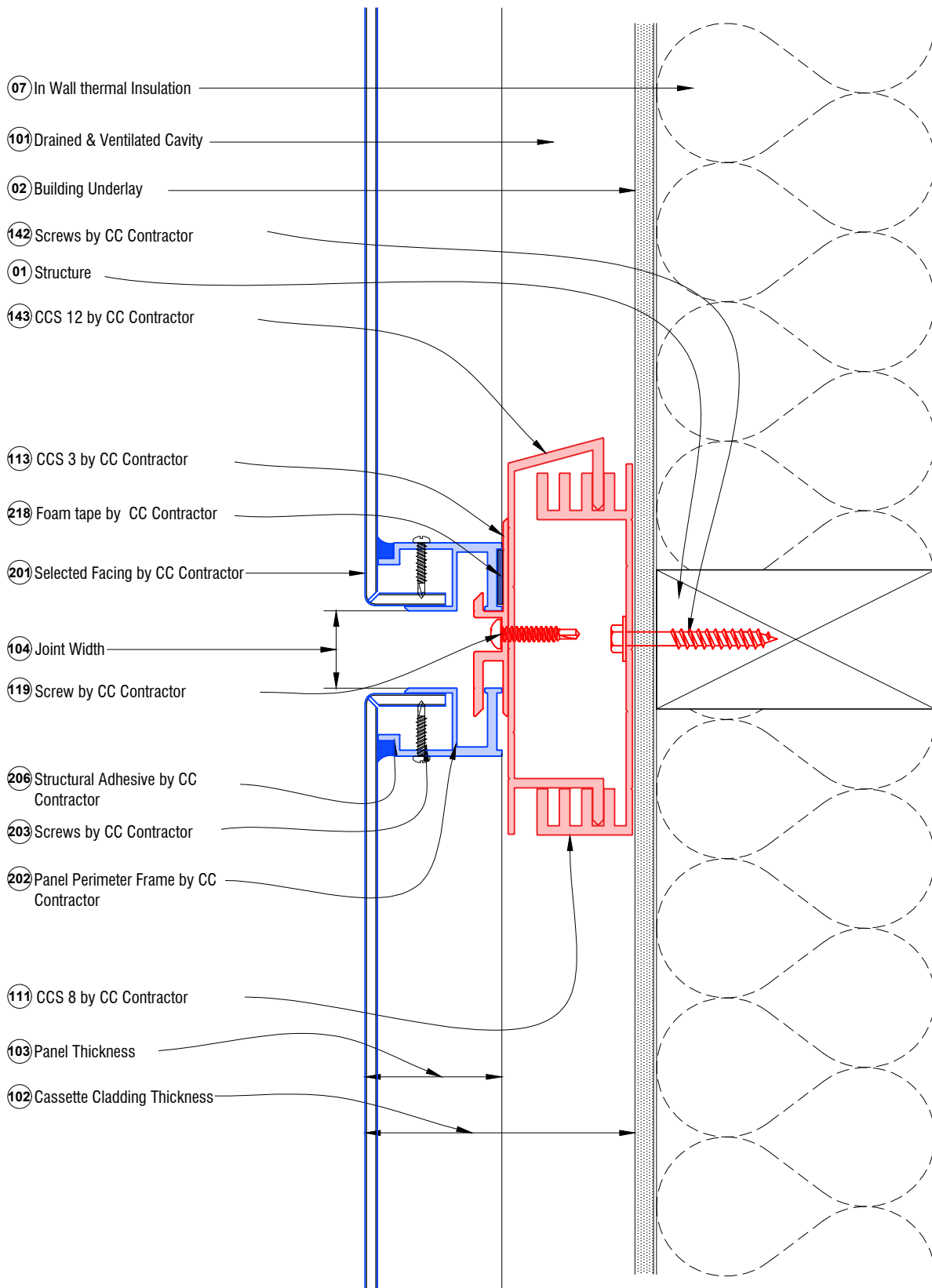
FASTENING OF FACING TO CCS7 WITH ITEM 206, 219 OR 223

✱ CAN NOT BE USED WITH CCS9 SUPPORT RAIL

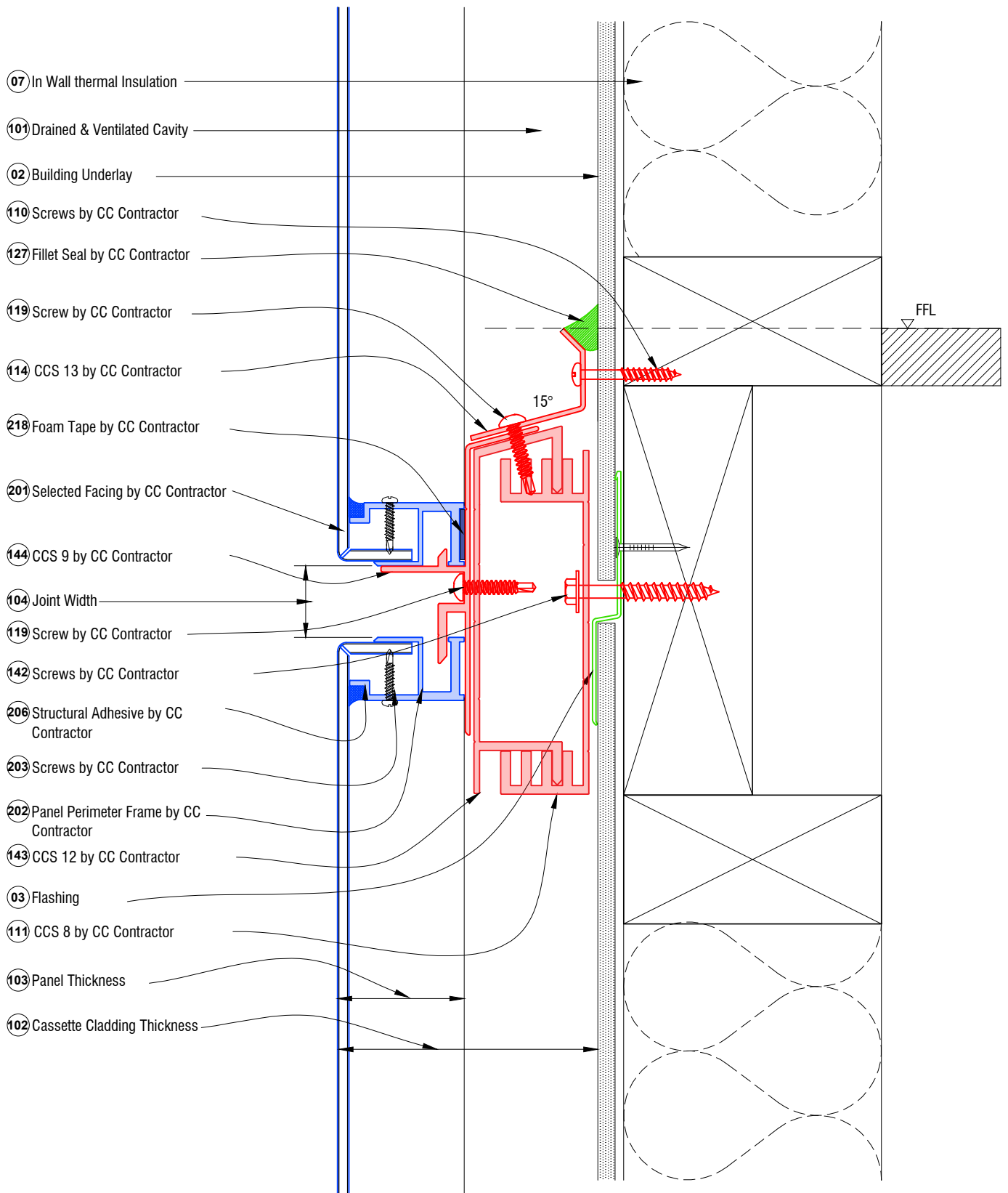
	<p>DRAWING TITLE</p> <p>EDGE SHAPE OF FACING PANELS (CCS7/ITEM 221)</p>	<p>NOTES:</p> <p>THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL, SPECIFICALLY ALSO STUDY THE NOTATIONS ☺ USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.</p>	<p>DRAWING STATUS</p> <p>ARCHITECTURAL RESOURCE</p>		
			<p>DRAWN BY: JC</p> <p>SCALE: 1:2</p> <p>DATE: SEPTEMBER 2019</p>	<p>SHEET NO.</p> <p>P02D</p>	<p>ISSUE</p> <p>A</p>

D-SERIES DETAILS

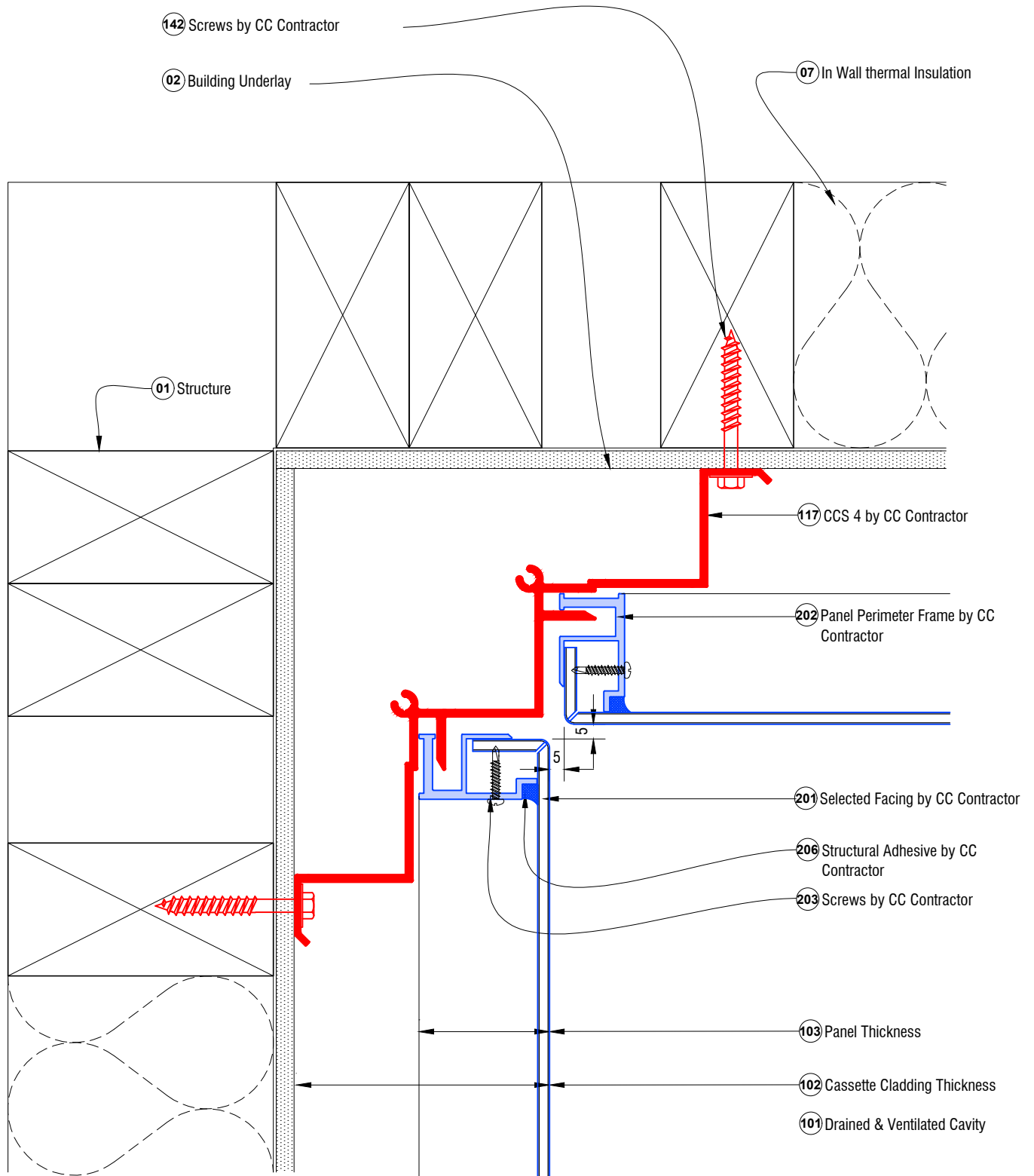




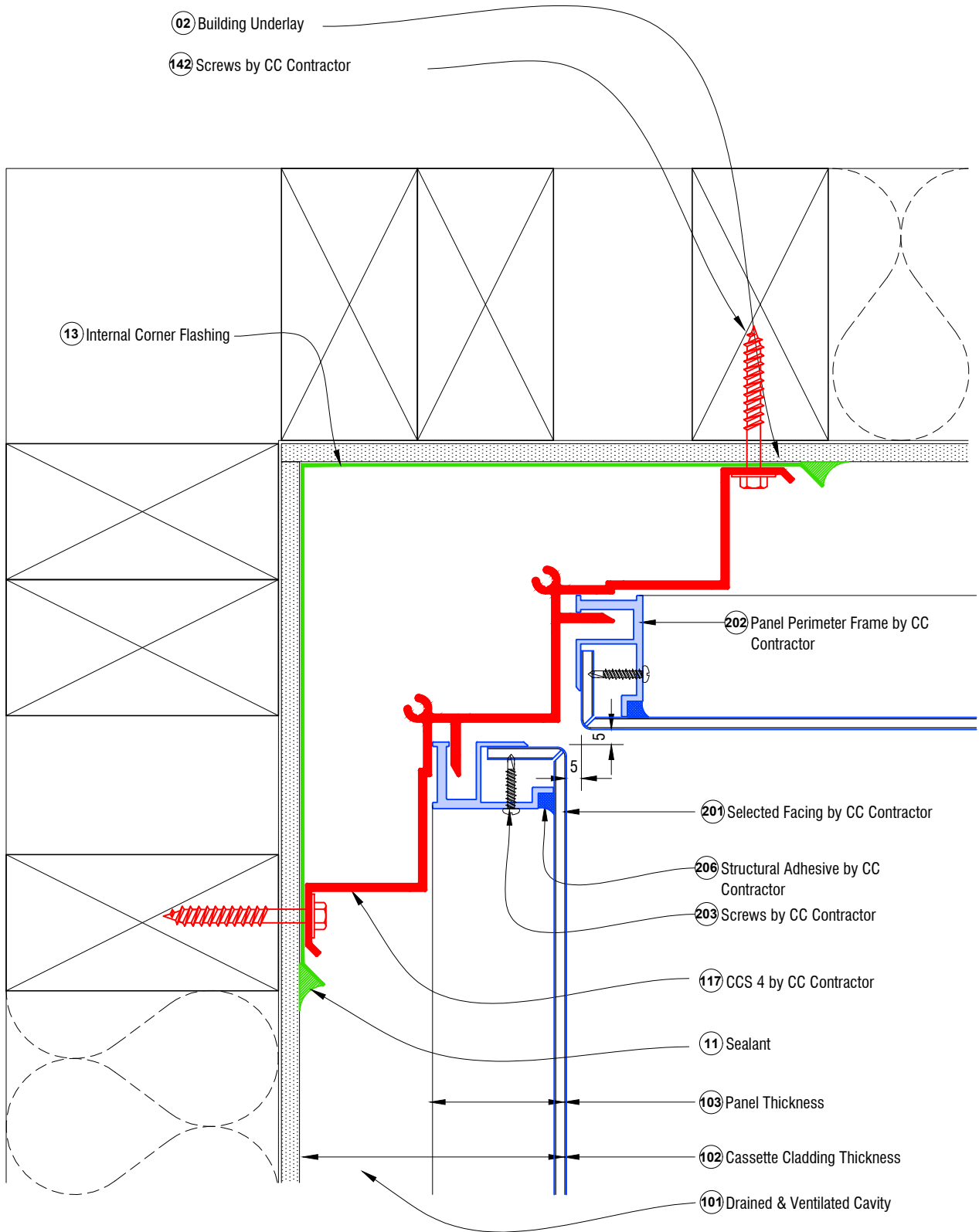
HORIZONTAL JOINT DETAIL	NOTES: THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL. SPECIFICALLY ALSO STUDY THE NOTATIONS ☺ USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.		DRAWING STATUS	
	ARCHITECTURAL RESOURCE		SHEET NO. D02	ISSUE A
DRAWN BY: JC	SCALE: 1:2	DATE: SEPTEMBER 2019		



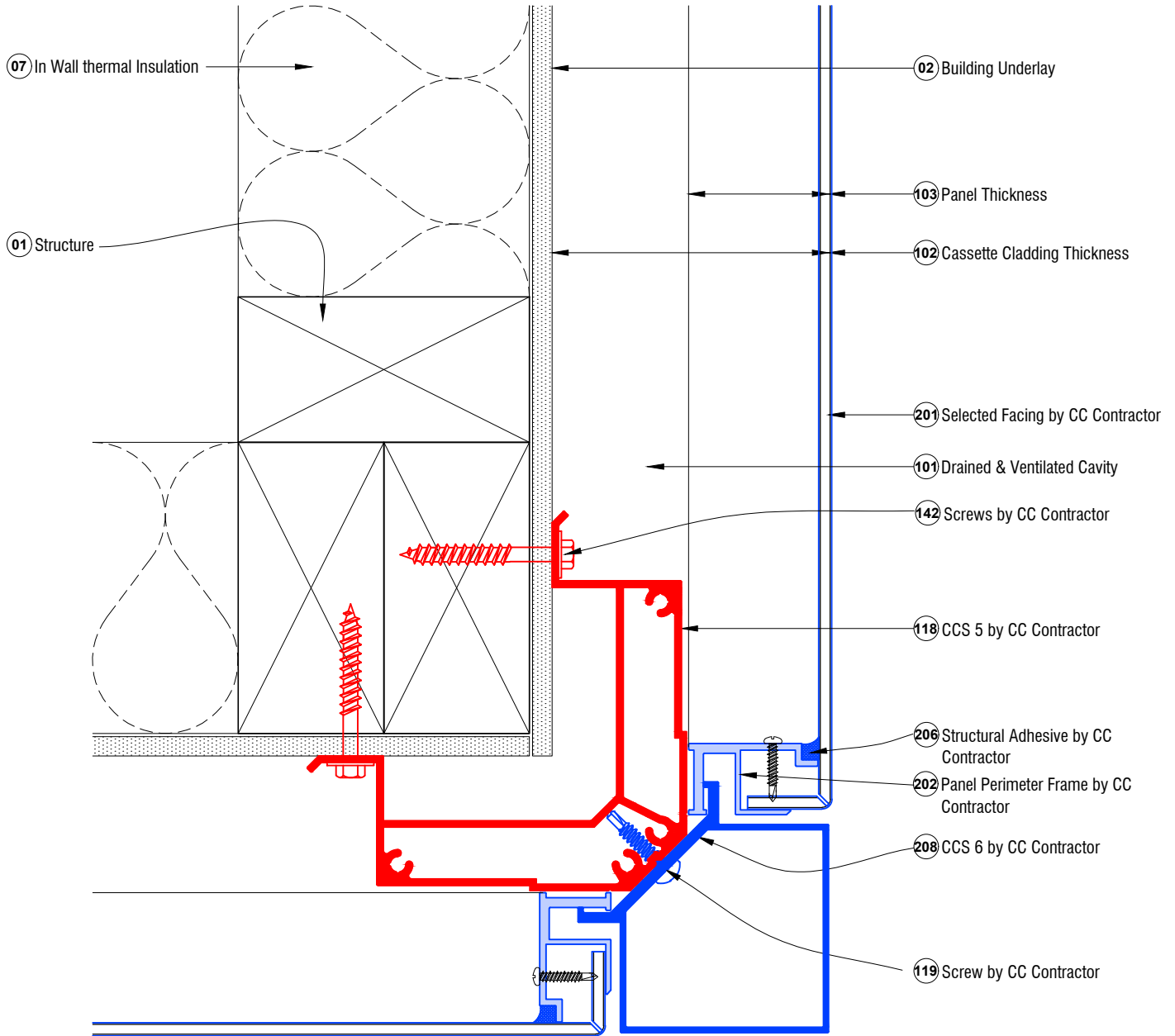
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		DATE: SEPTEMBER 2019		



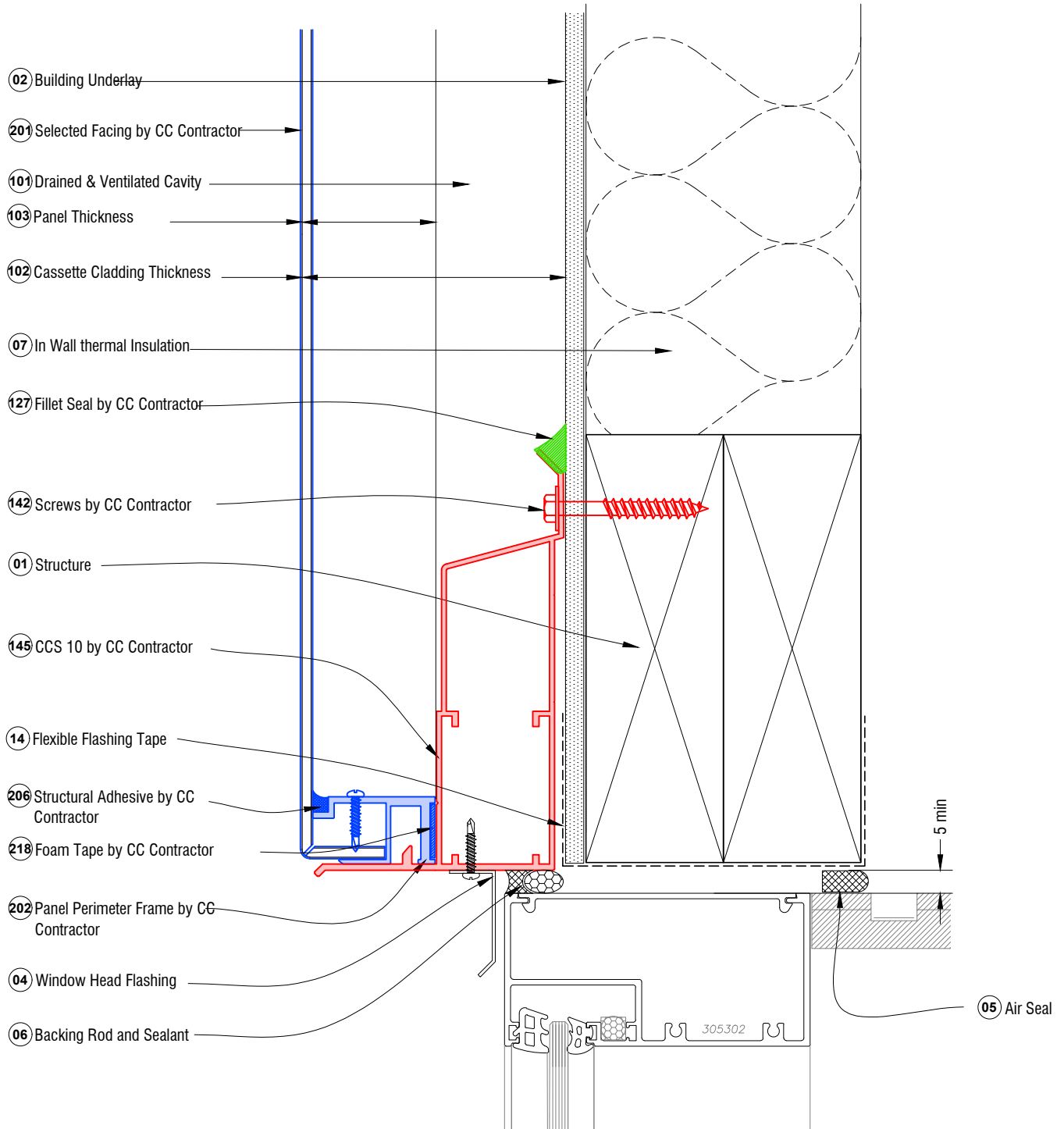
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	INTERNAL CORNER DETAIL	<p>THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL, SPECIFICALLY ALSO STUDY THE NOTATIONS ☺ USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.</p>	ARCHITECTURAL RESOURCE	SHEET NO. D03	ISSUE A
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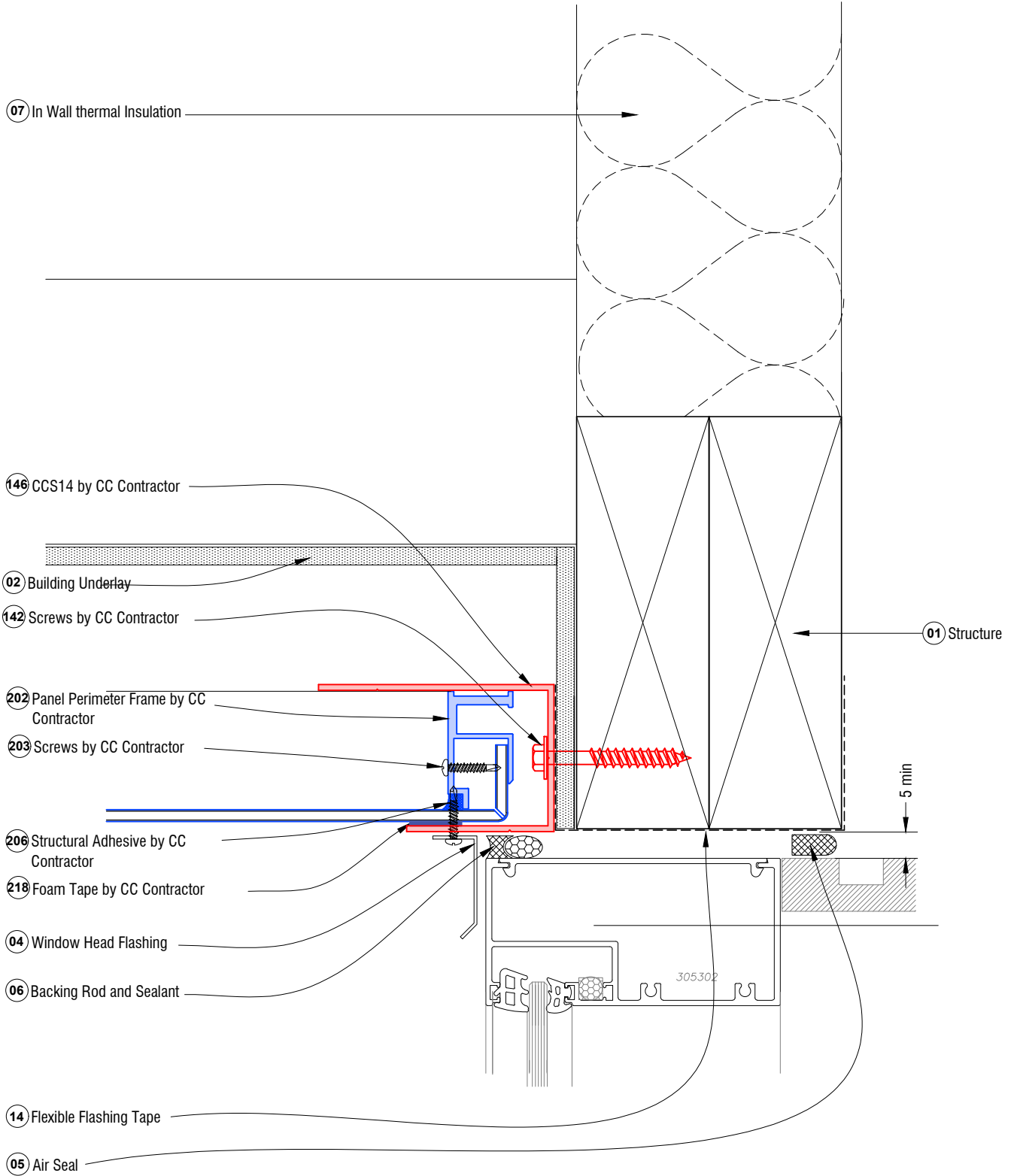


	DRAWING TITLE WALL OR FASCIA TO PERPENDICULAR JUNCTION DETAIL	NOTES: THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL, SPECIFICALLY ALSO STUDY THE NOTATIONS ☺ USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.	DRAWING STATUS ARCHITECTURAL RESOURCE	
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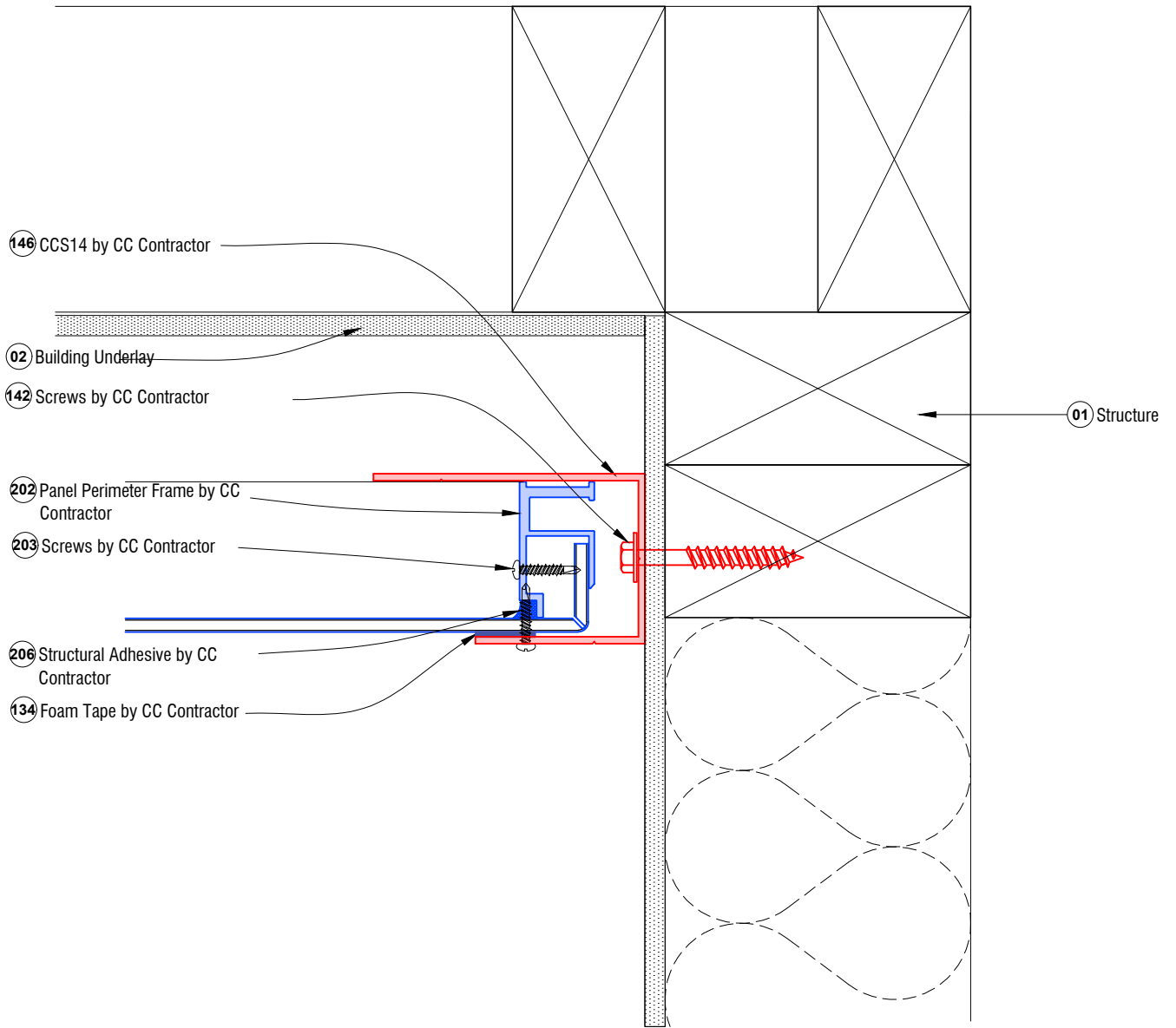


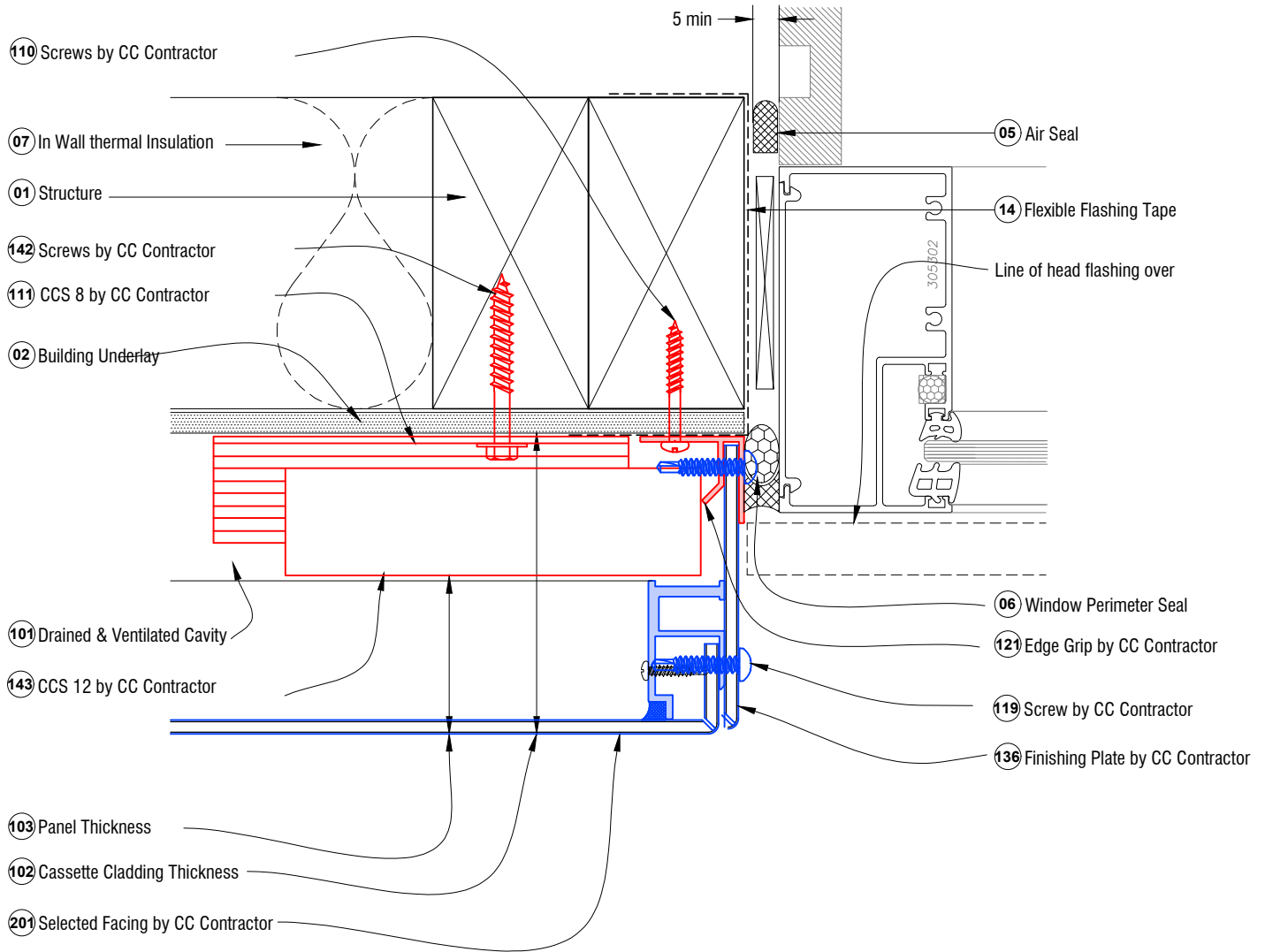
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	EXTERNAL CORNER DETAIL	<p>THIS DRAWING FORMS PART OF AND MUST BE READ WITH THE CASSETTE CLADDING MANUAL, SPECIFICALLY ALSO STUDY THE NOTATIONS ☺ USED TO FURTHER CLARIFY DRAWING ANNOTATIONS.</p>	ARCHITECTURAL RESOURCE	SHEET NO. D04	ISSUE A
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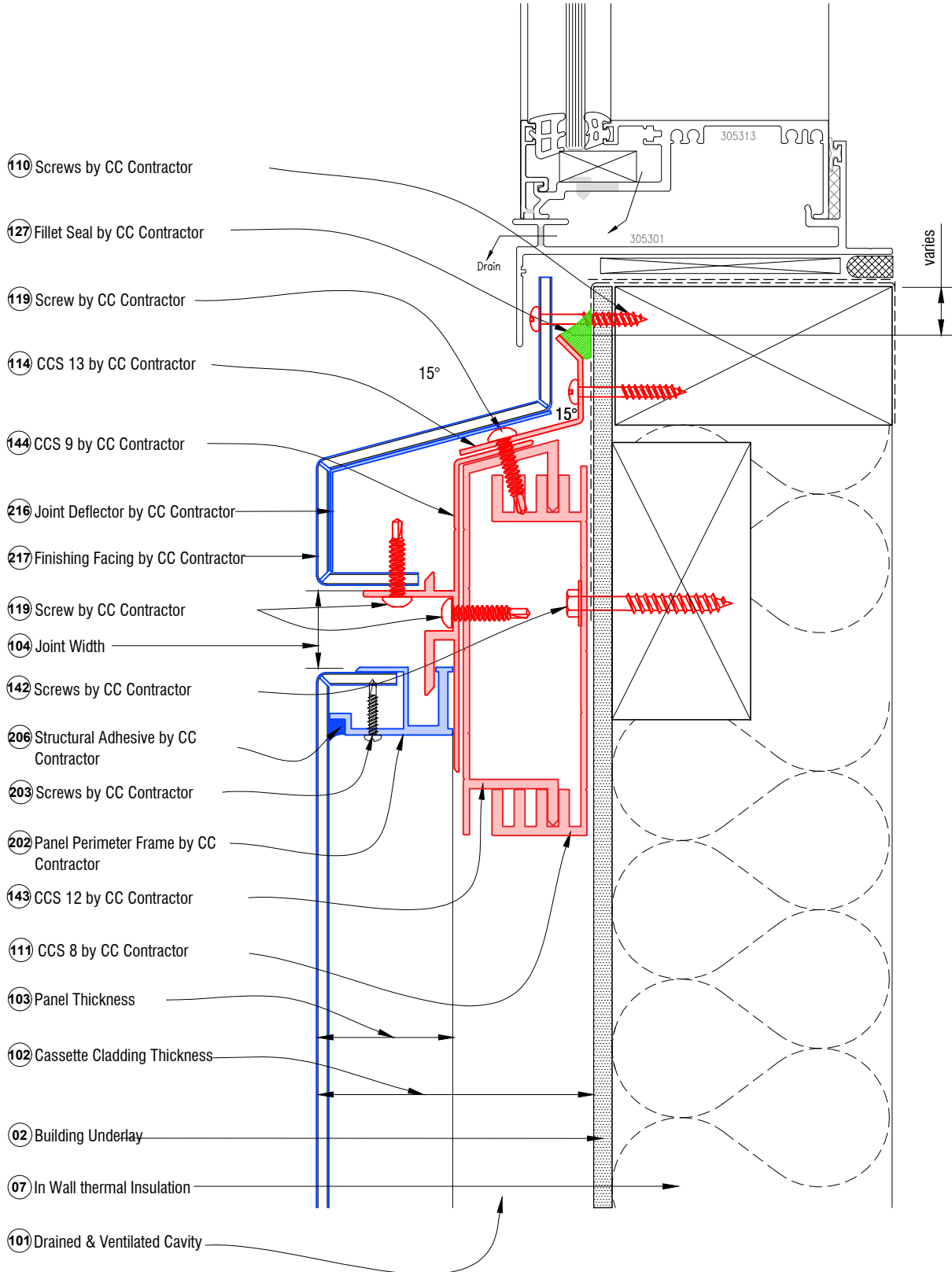


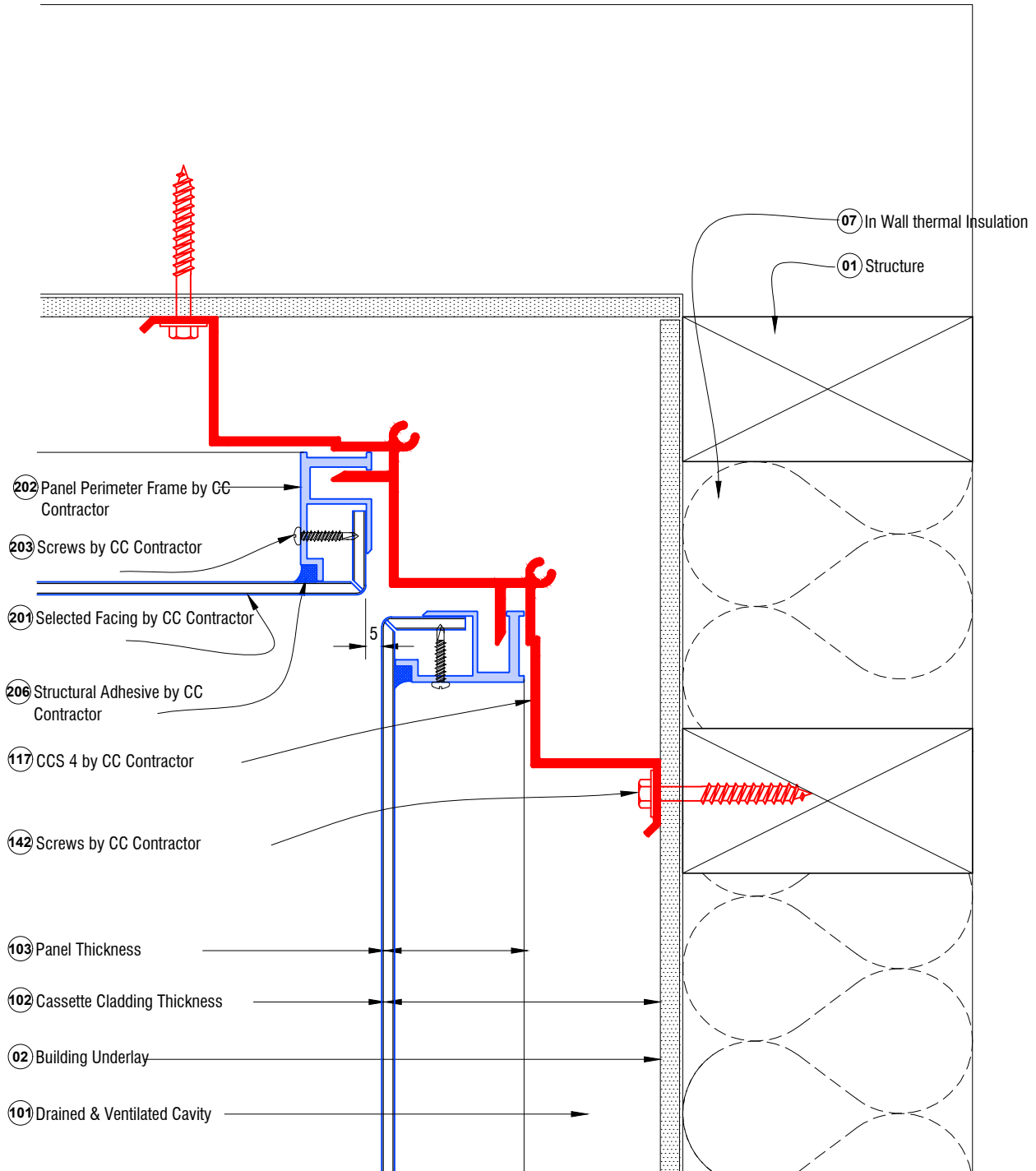


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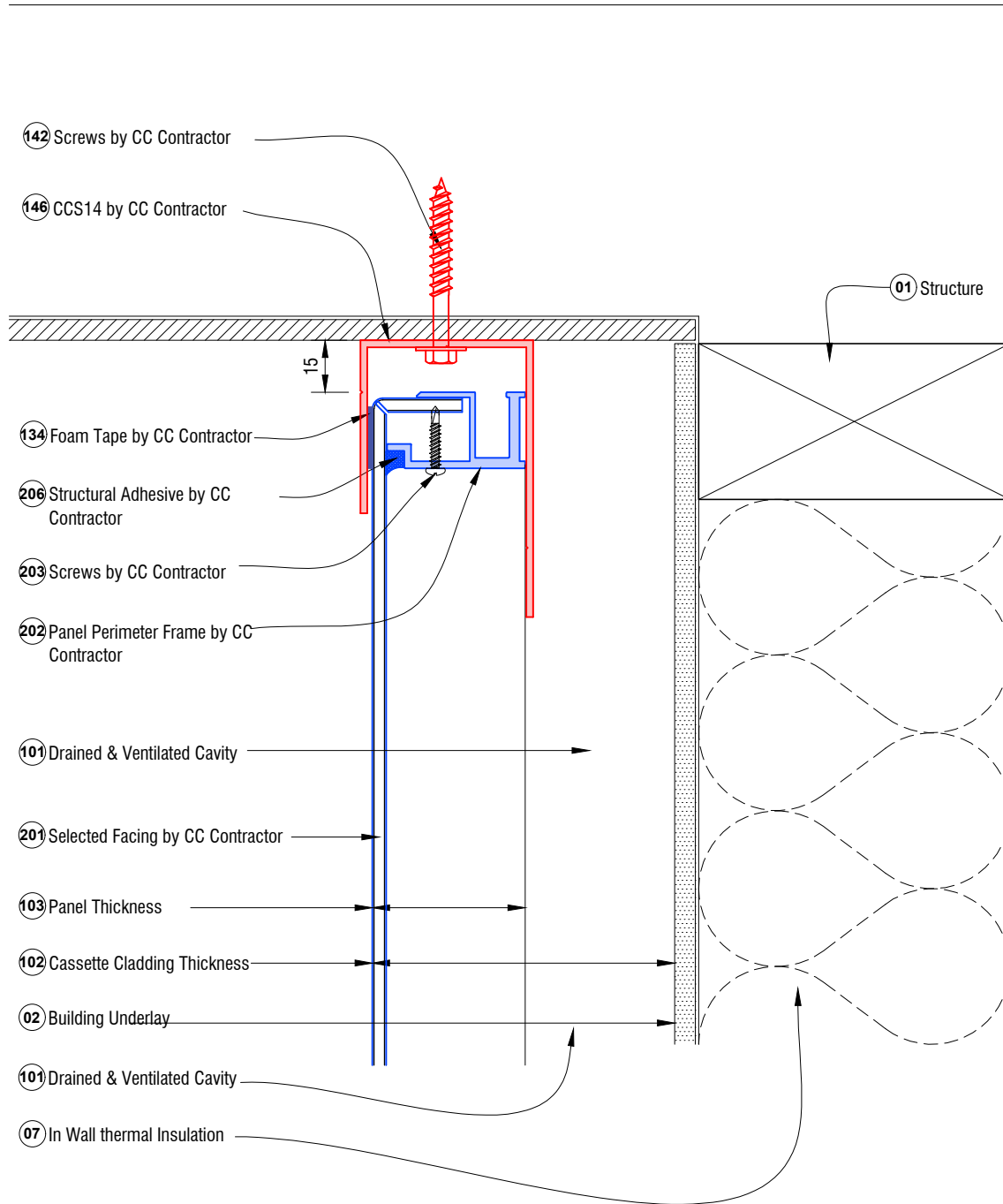




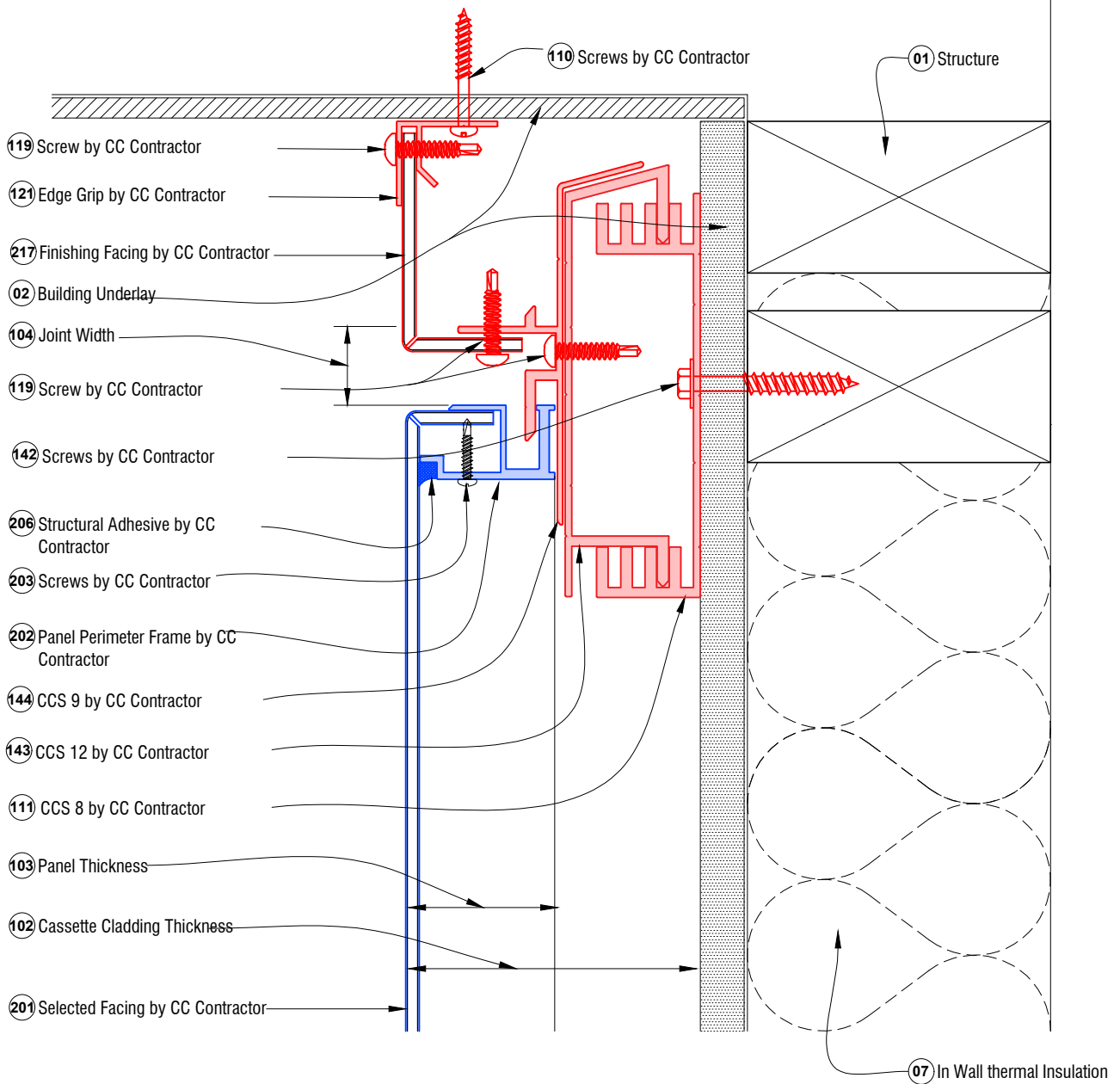
- ②② Panel Perimeter Frame by CC Contractor
- ②③ Screws by CC Contractor
- ②① Selected Facing by CC Contractor
- ②⑥ Structural Adhesive by CC Contractor
- ①⑦ CCS 4 by CC Contractor
- ①④② Screws by CC Contractor
- ①③ Panel Thickness
- ①② Cassette Cladding Thickness
- ② Building Underlay
- ①① Drained & Ventilated Cavity

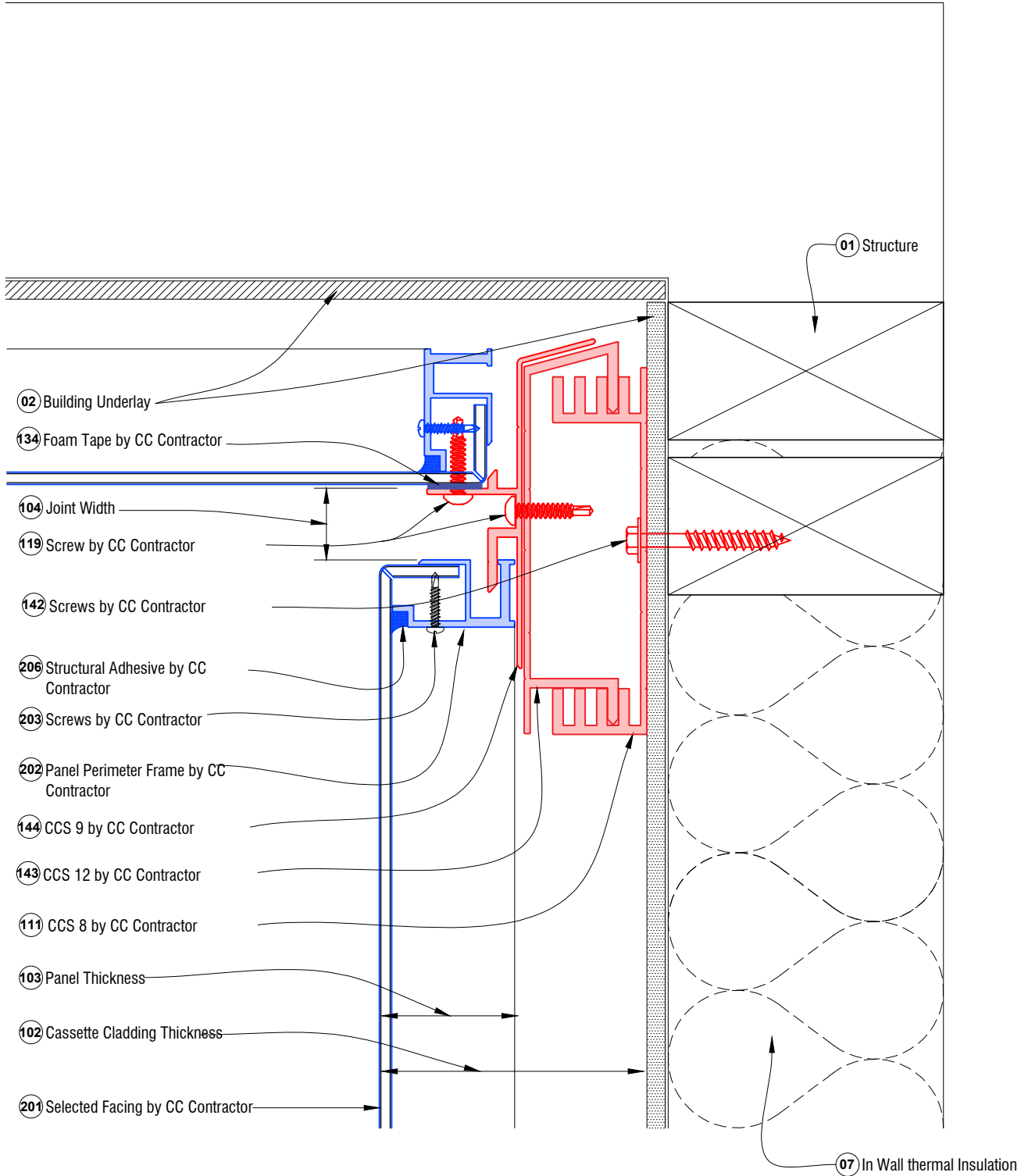
- ⑦ In Wall thermal Insulation
- ① Structure

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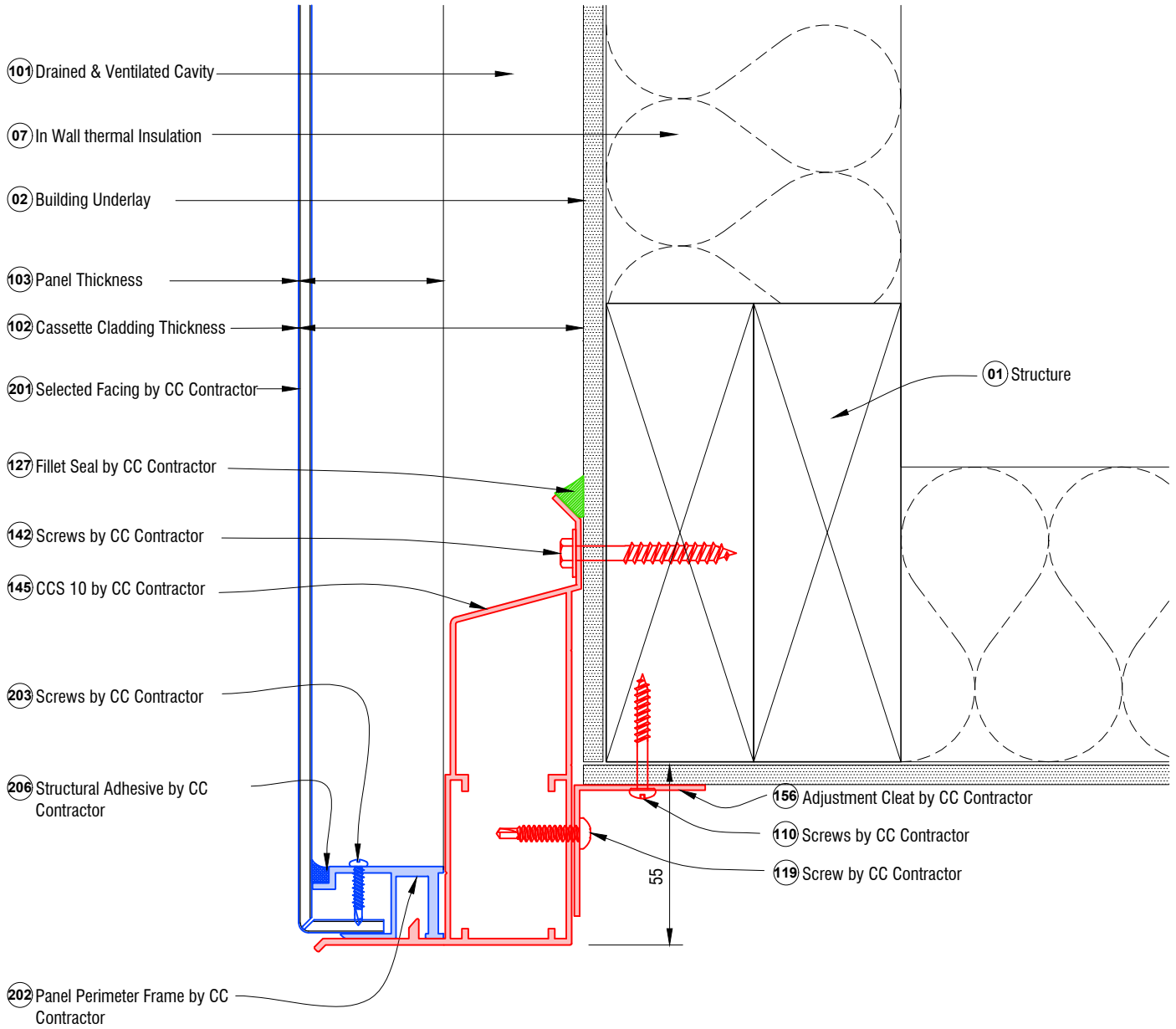


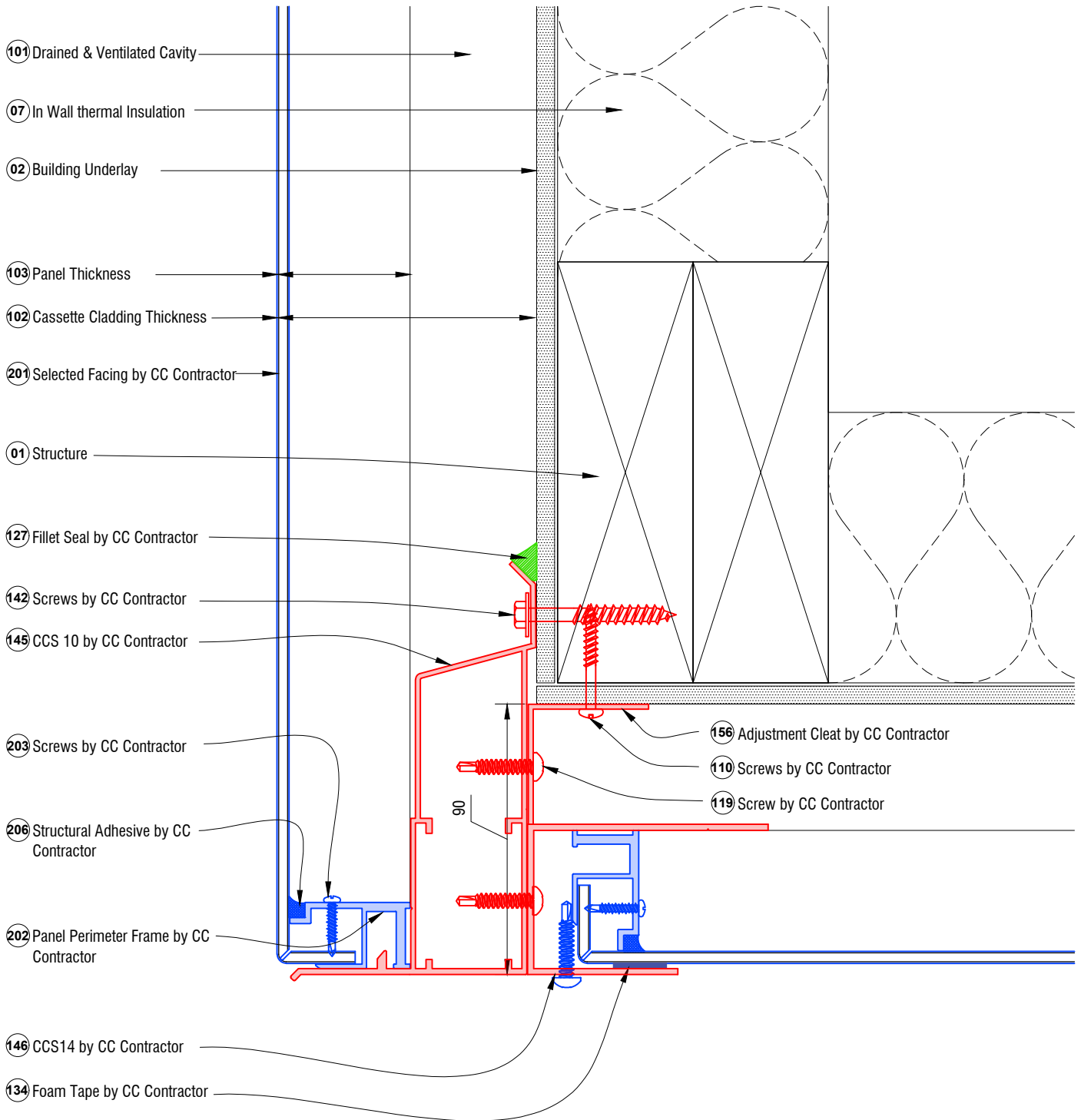
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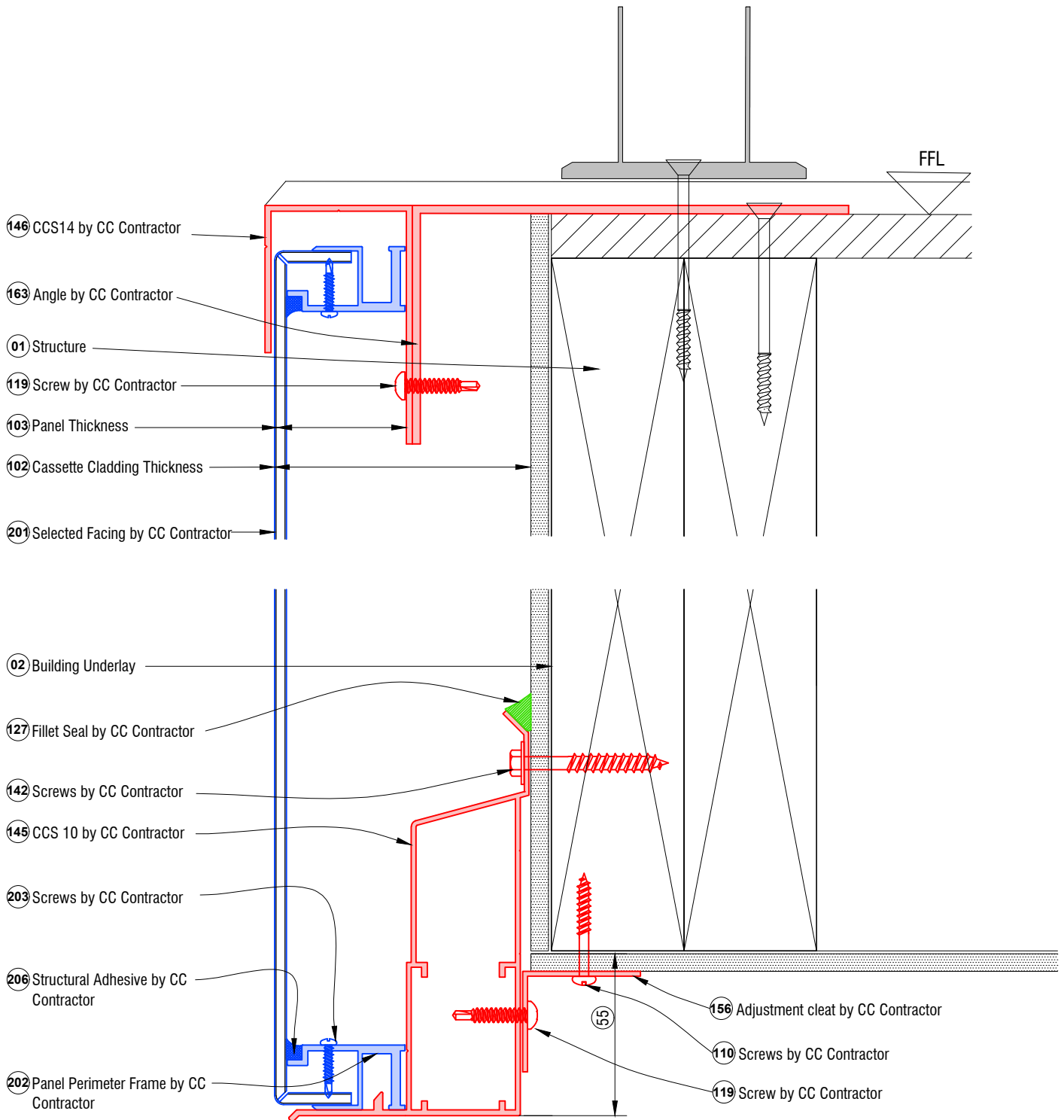


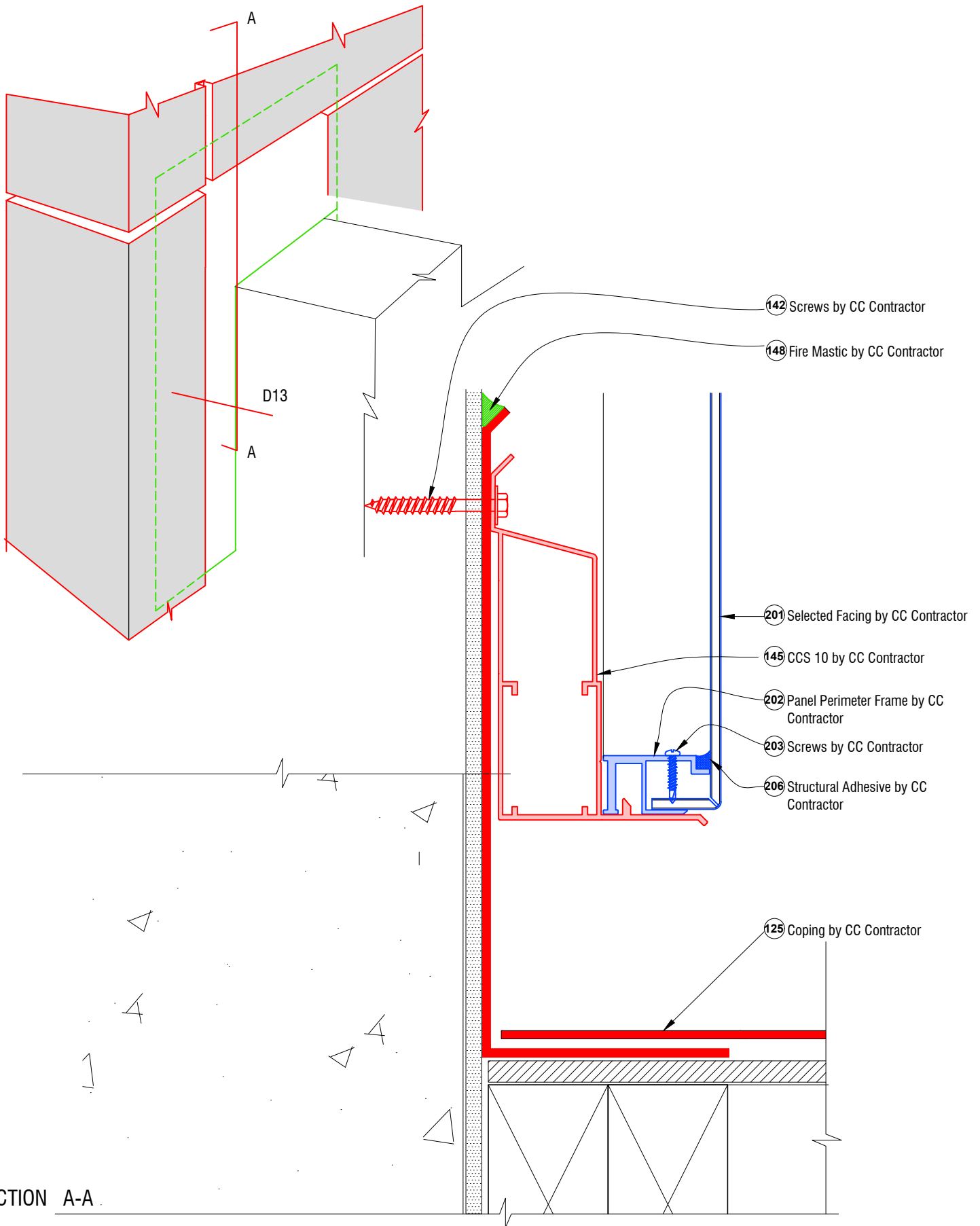


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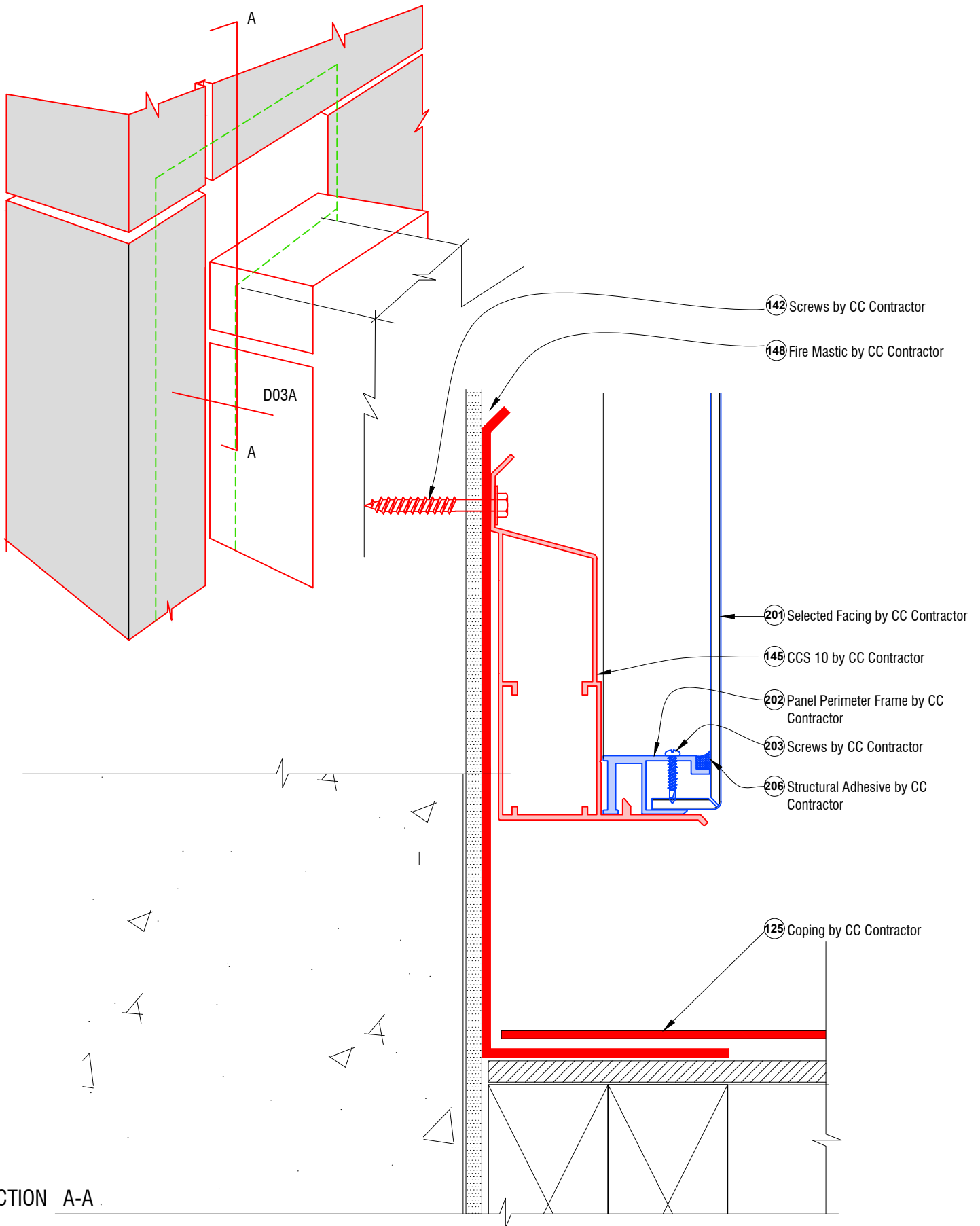






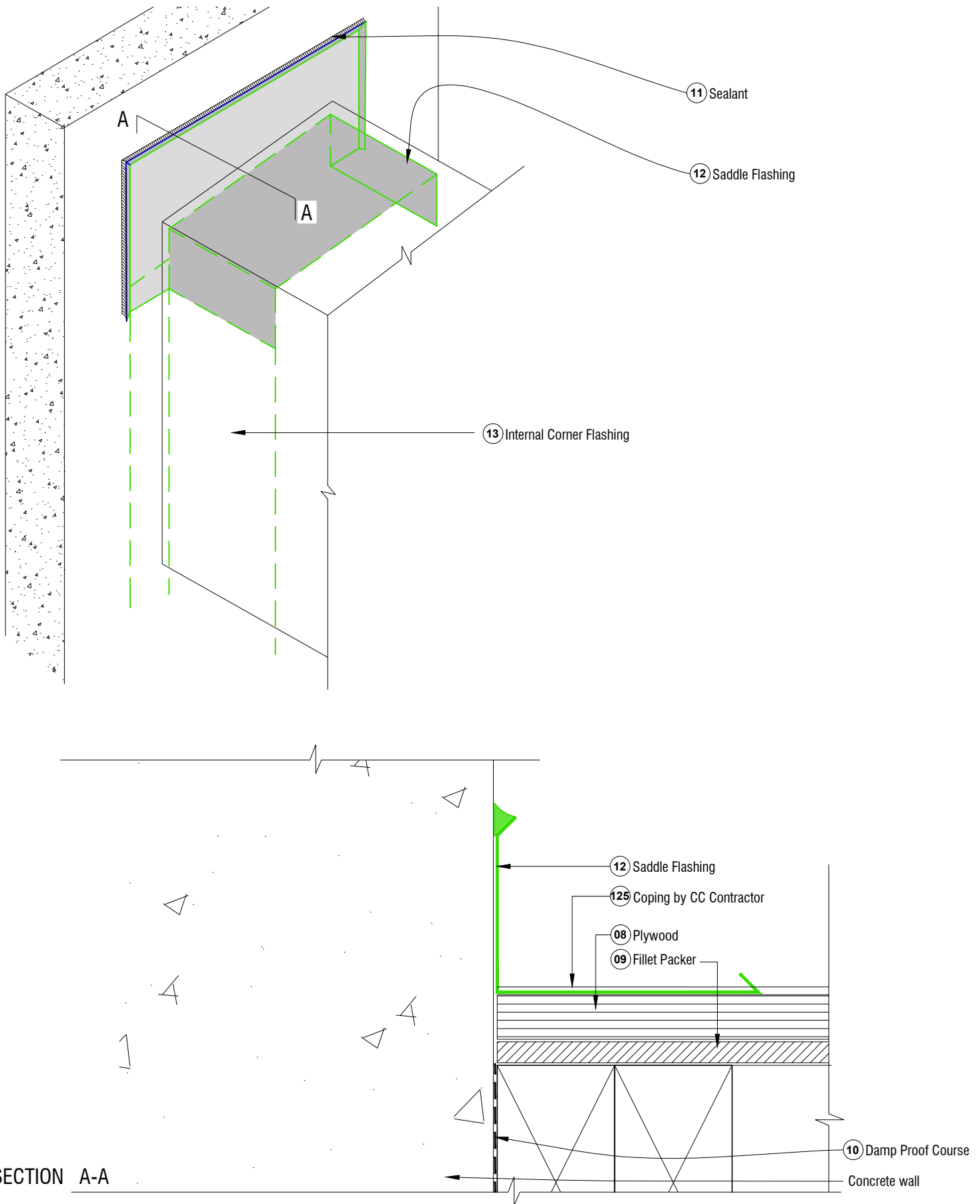


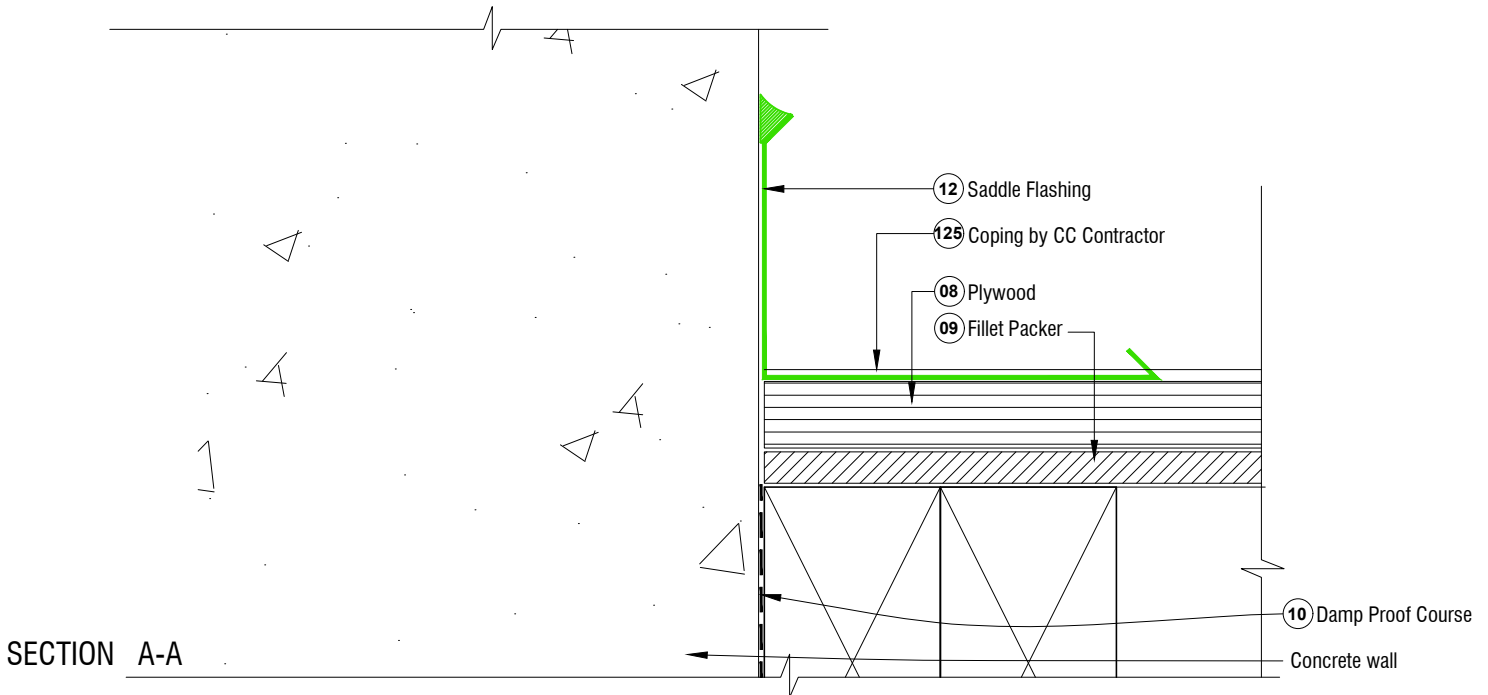
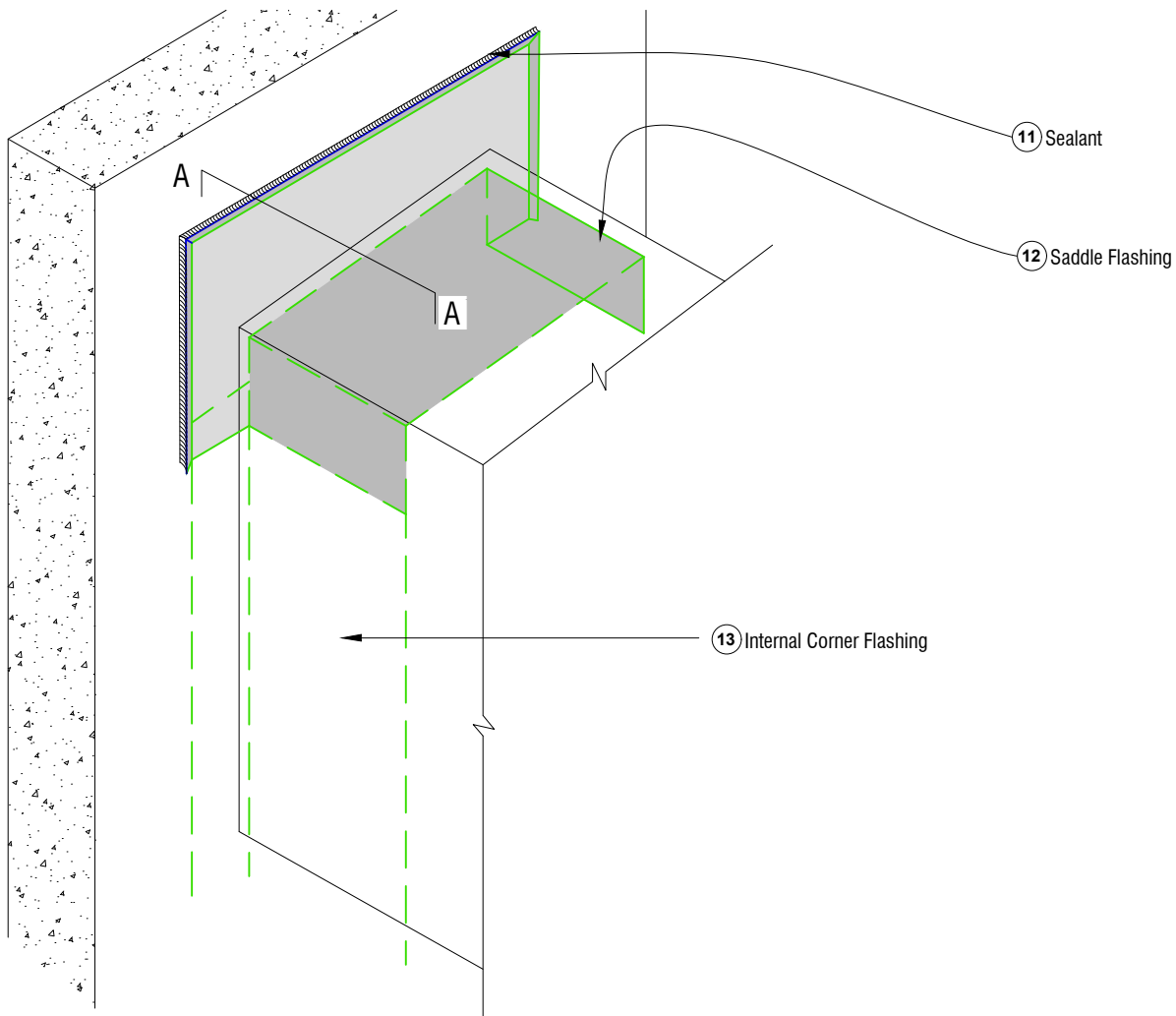
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	DRAWN BY: JC SCALE: 1:2 DATE: SEPTEMBER 2019				
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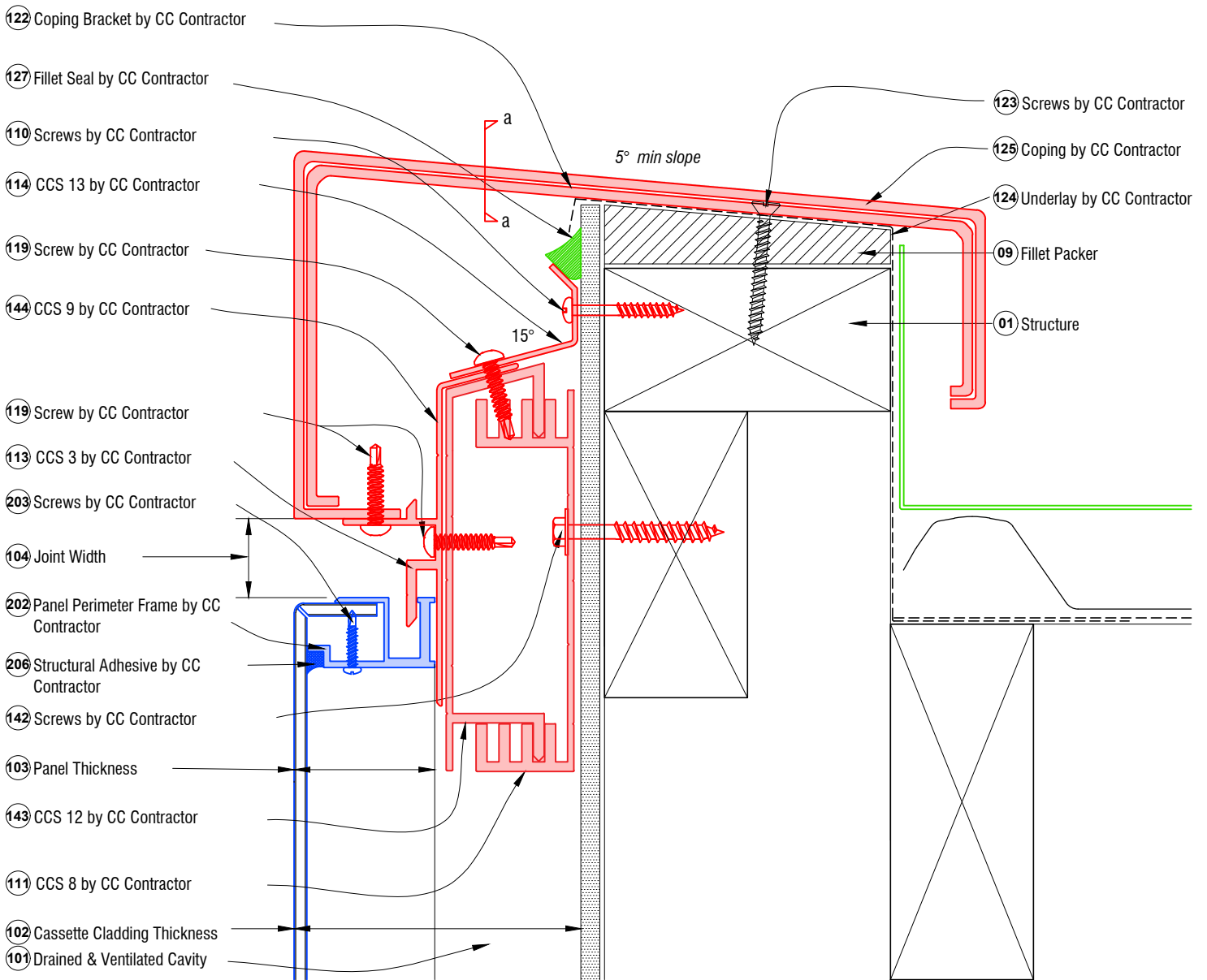
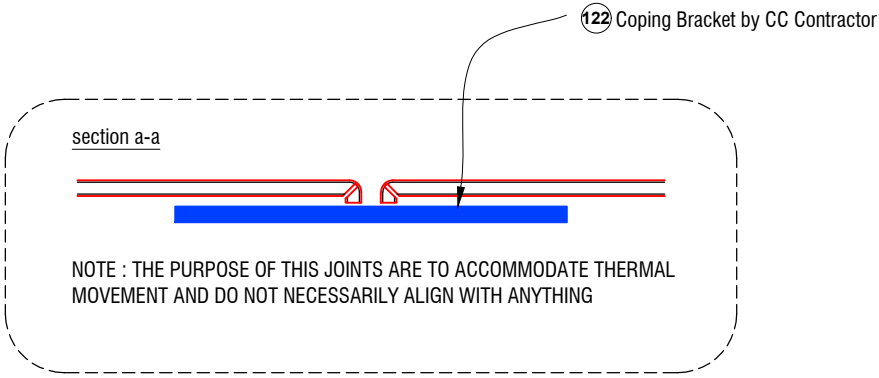


SECTION A-A

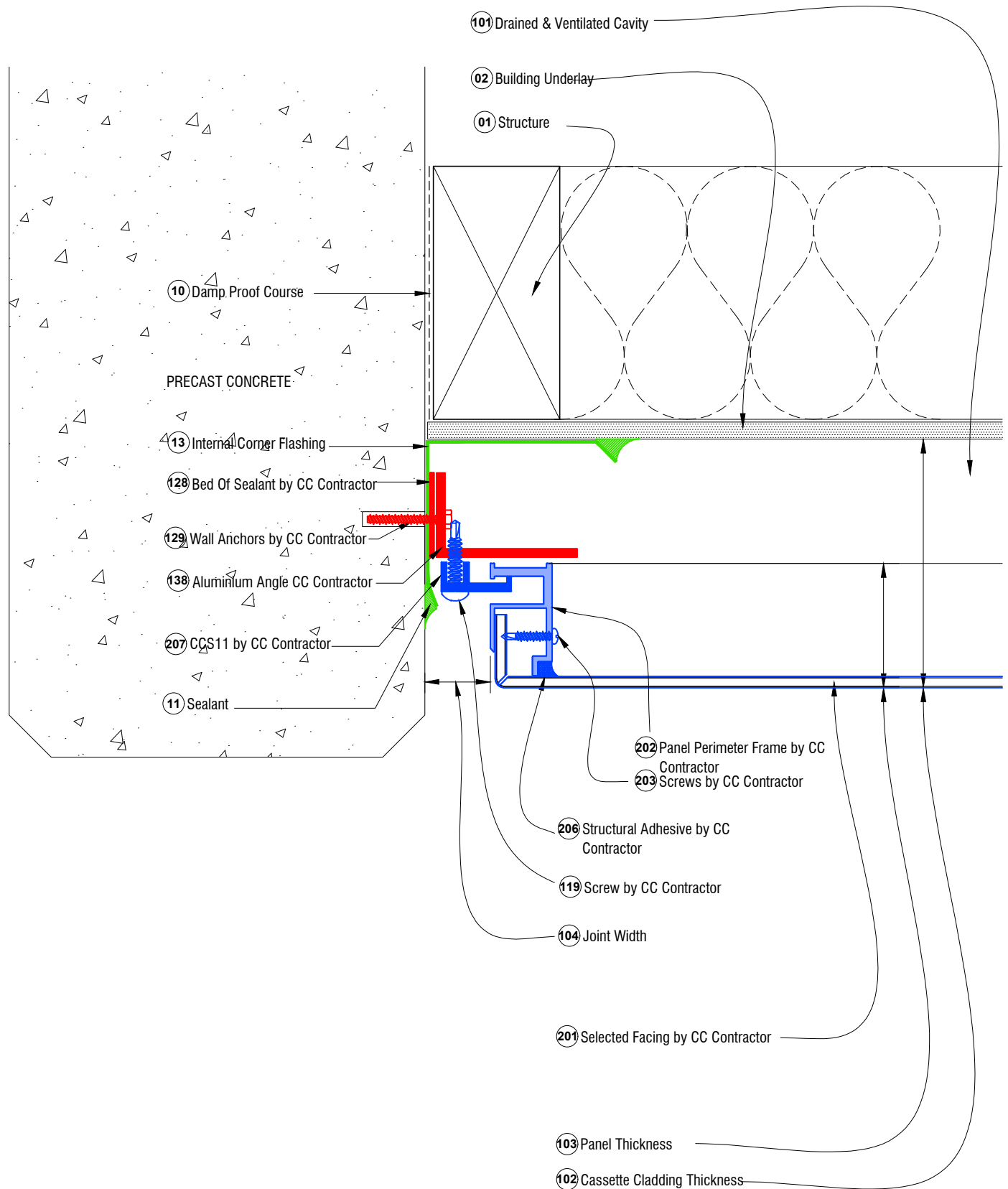
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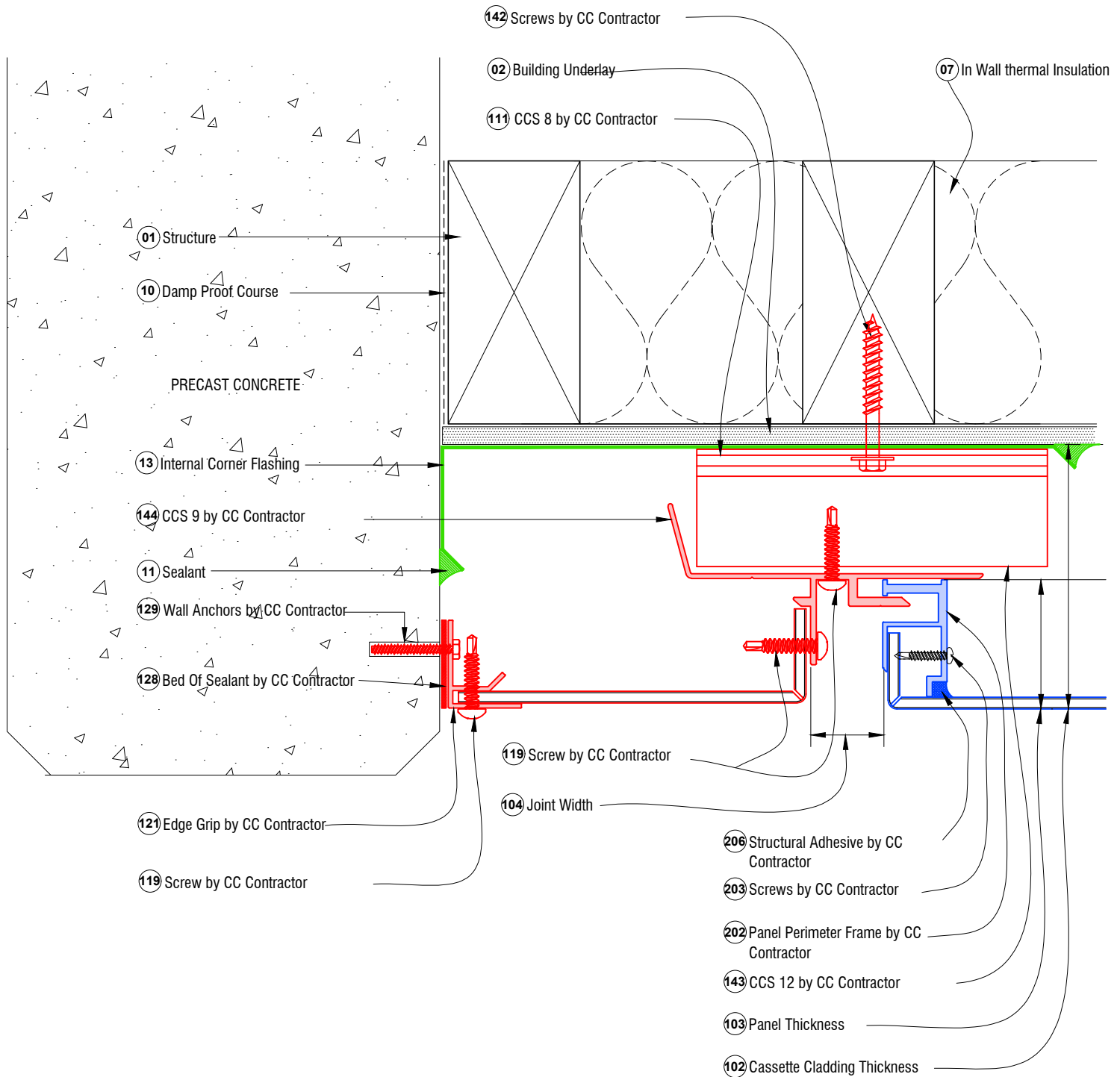


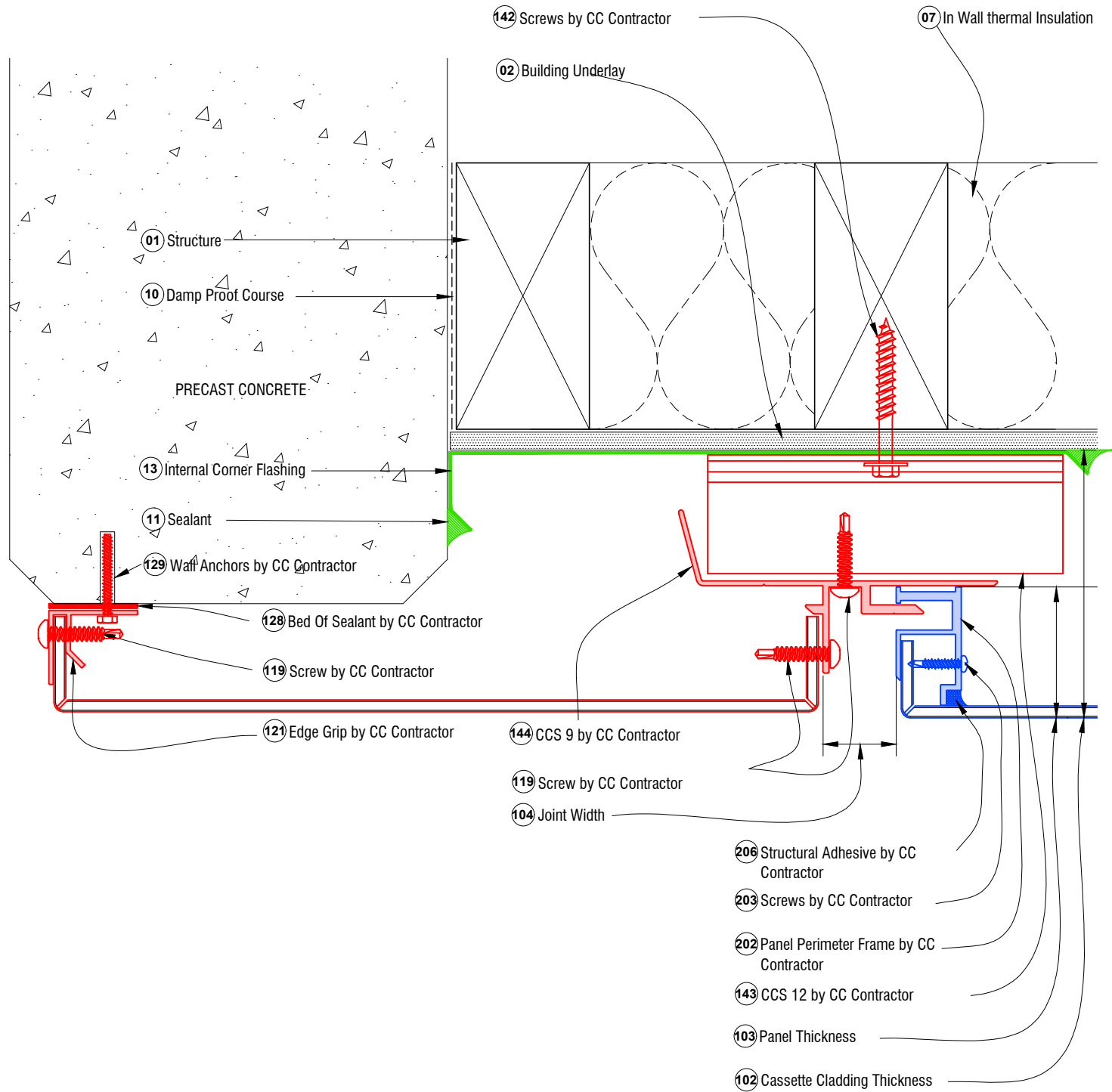




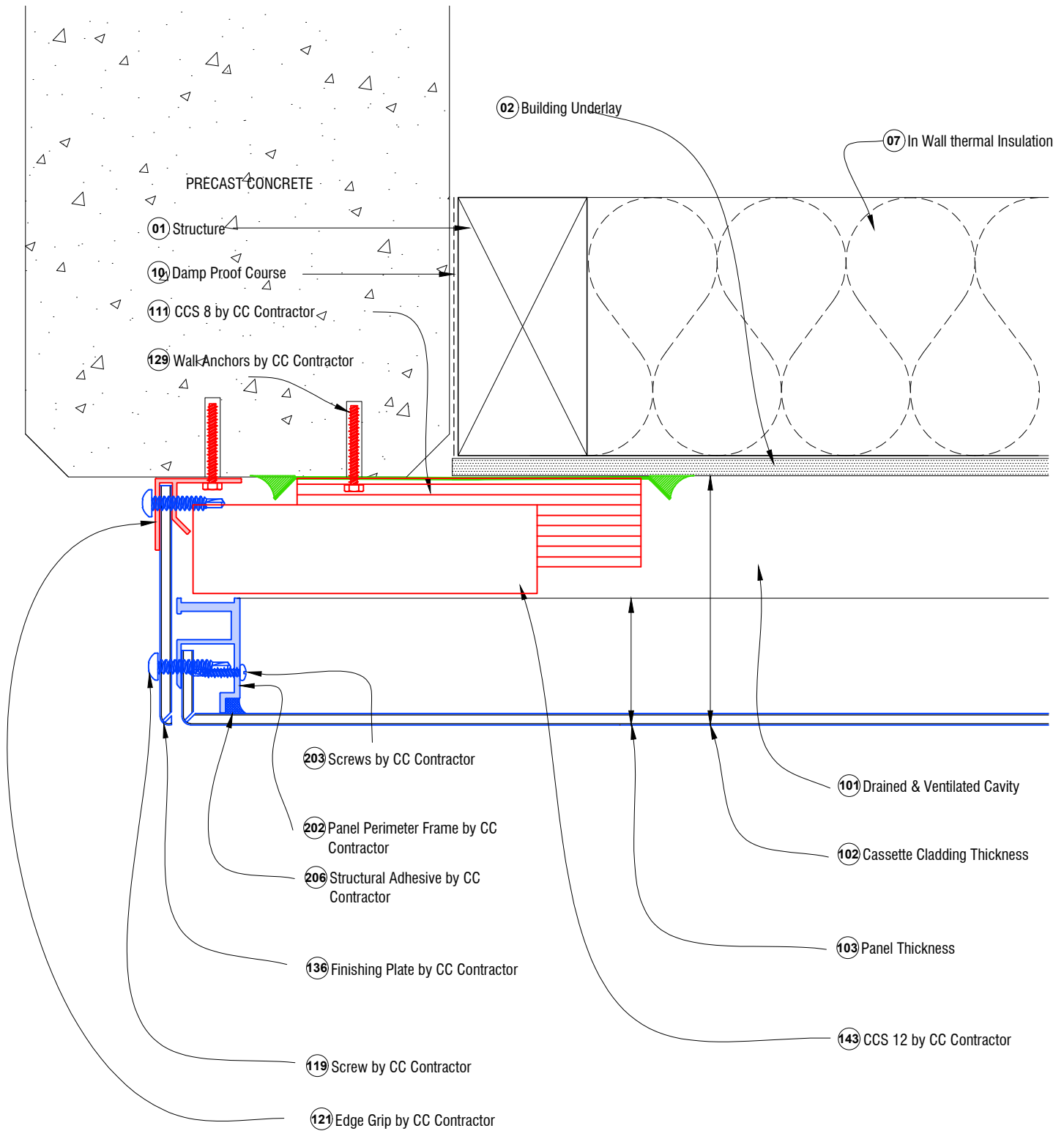
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			DRAWN BY: JC	SCALE: 1:2	DATE: SEPTEMBER 2019







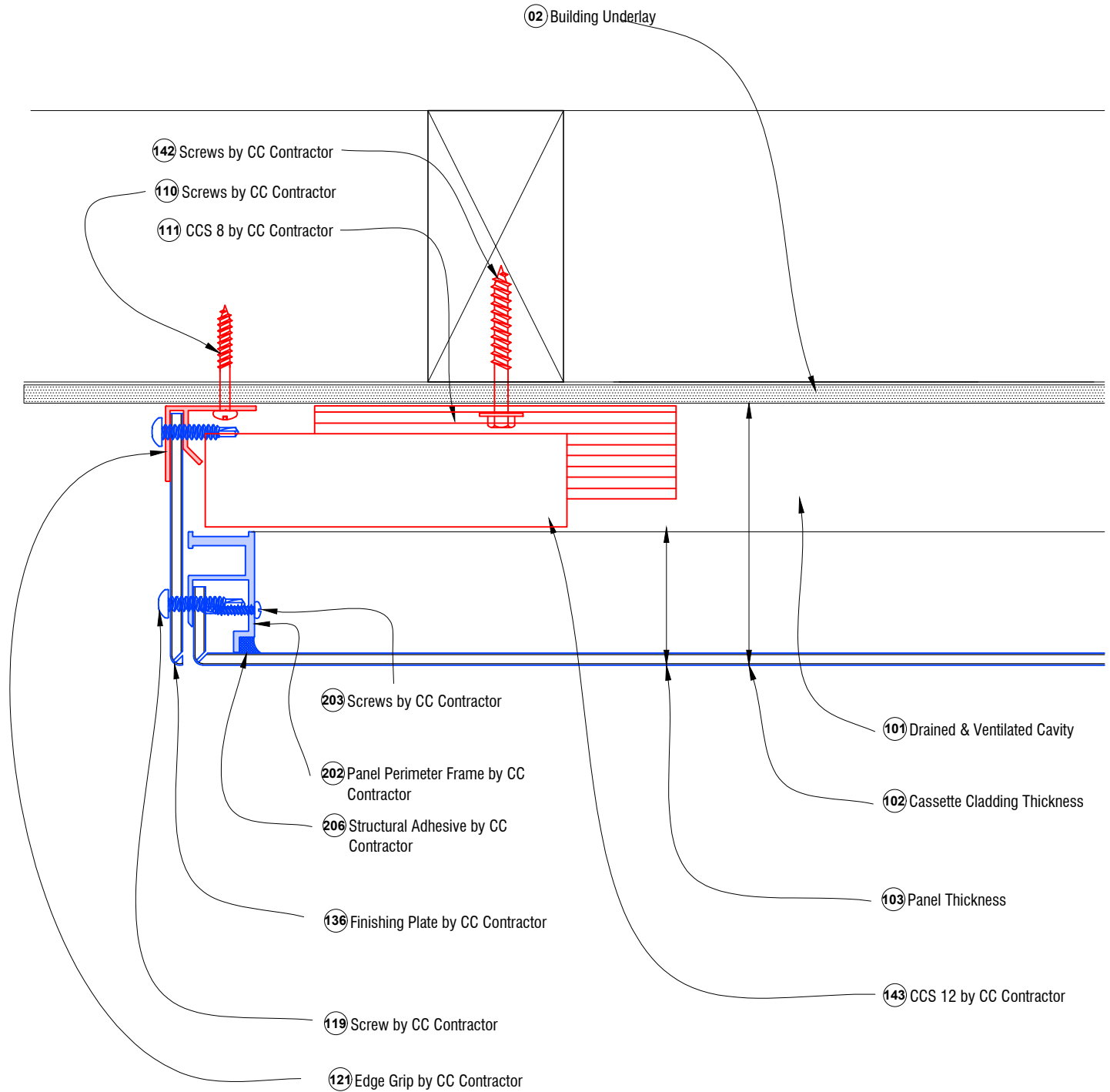
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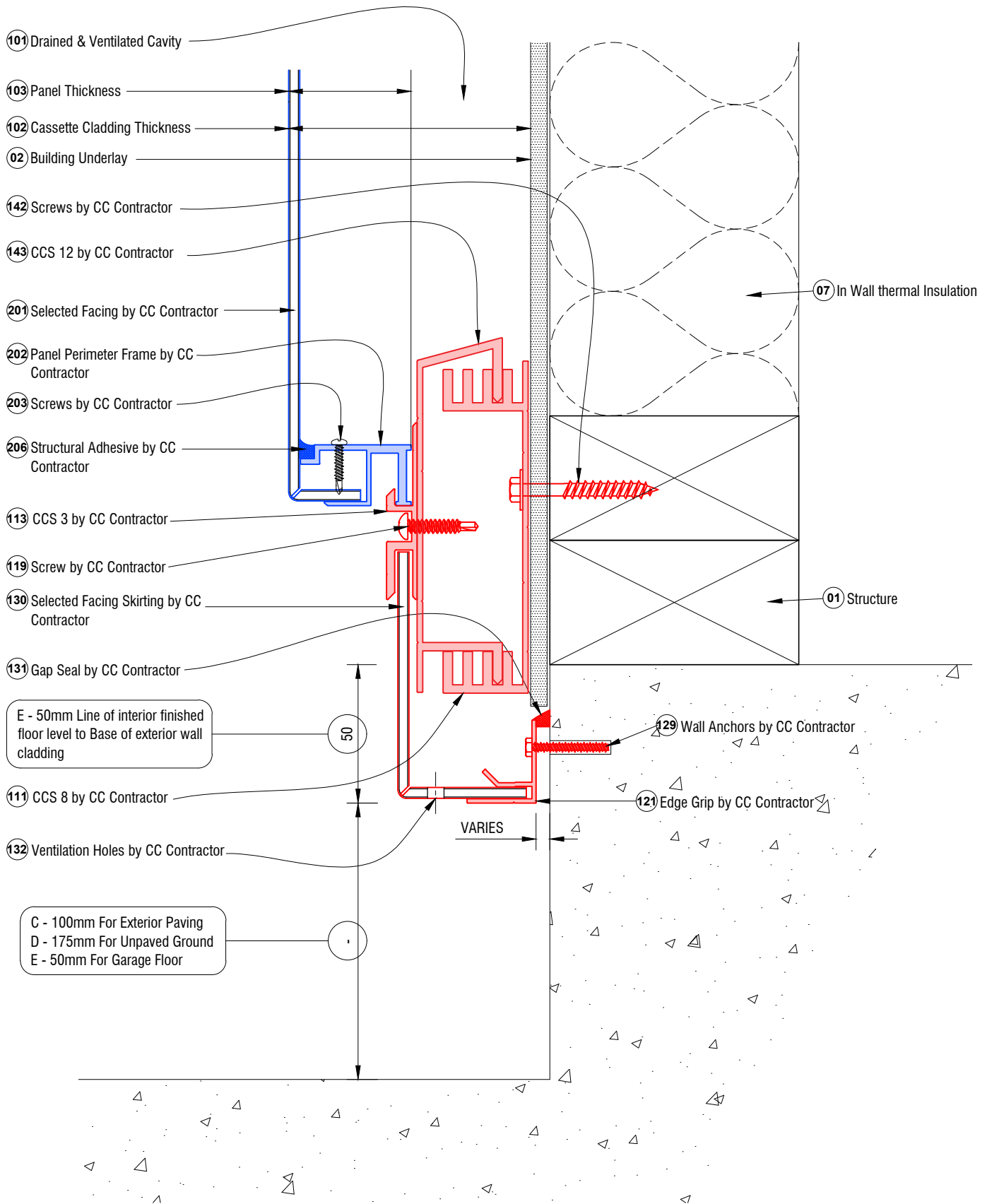


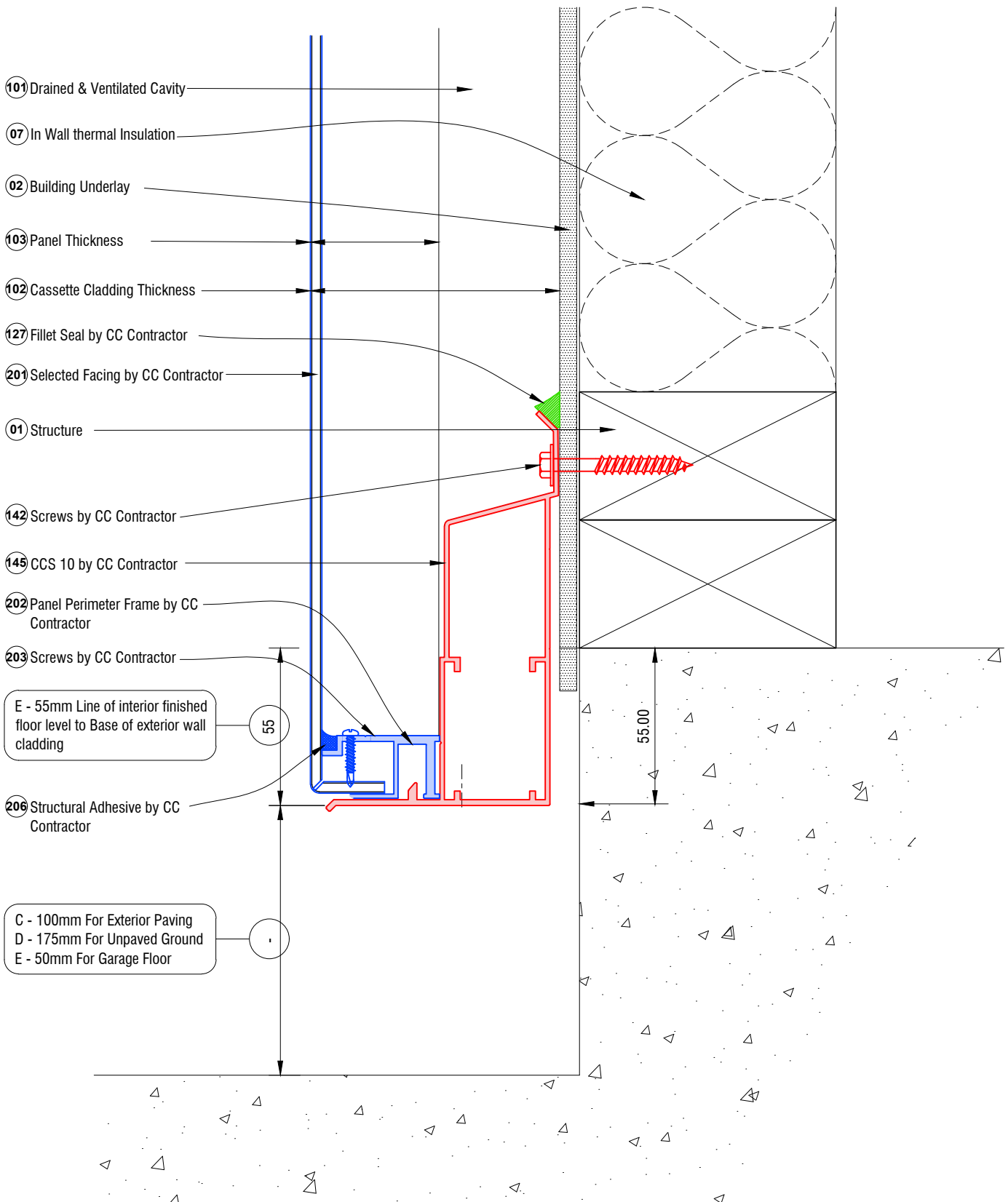
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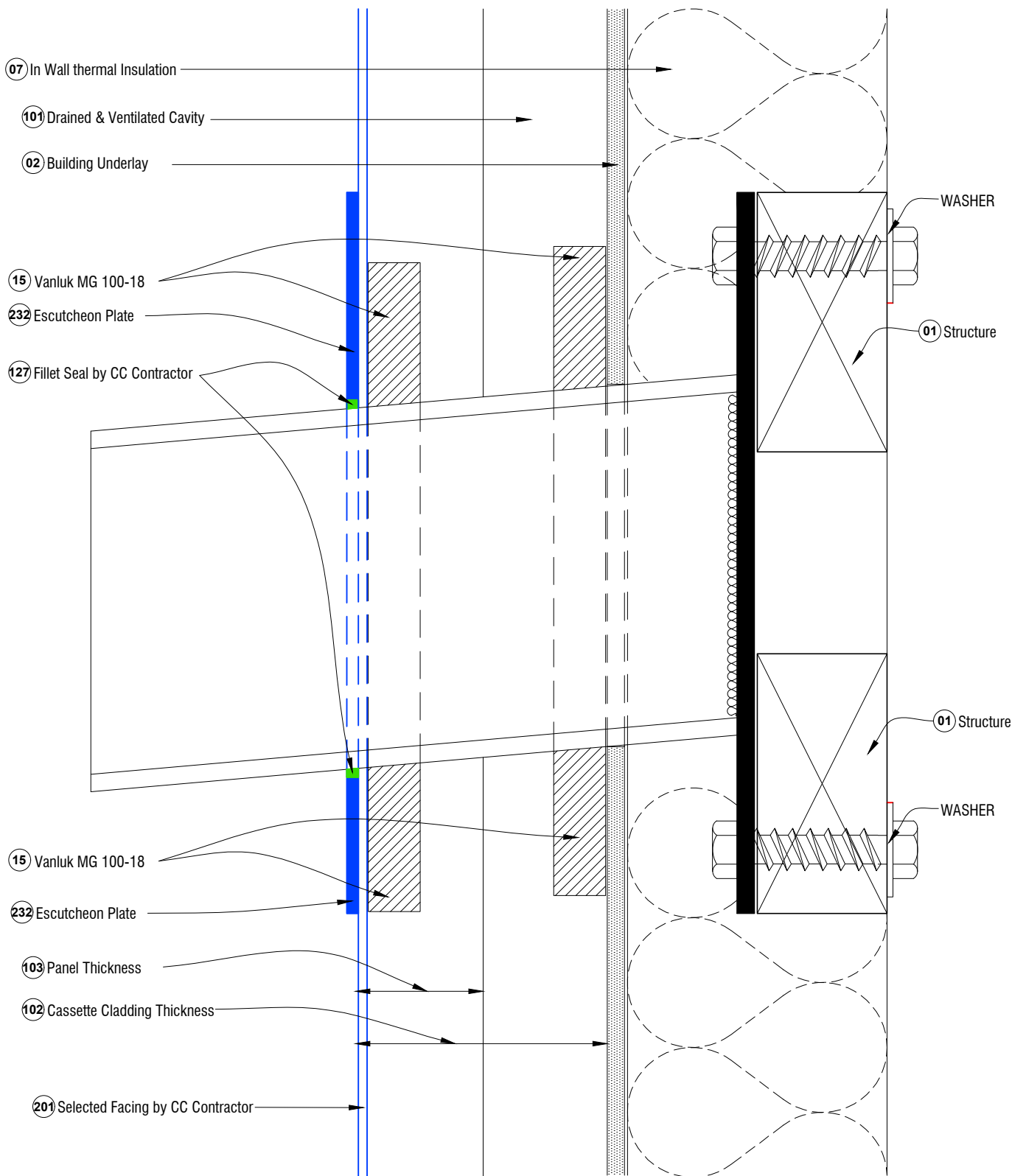
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ARCHITECTURAL RESOURCE		D13C	A
DRAWN BY: JC	SCALE: 1:2	DATE: SEPTEMBER 2019	







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	DRAWN BY: JC		SCALE: 1:2	DATE: SEPTEMBER 2019		



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		DRAWN BY: JC	SCALE: 1:2	DATE: SEPTEMBER 2019	

01 Structure

PURPOSE: Required for transferring the loads (like wind loading) applied to Cassette Cladding to the building.

For carrying the weight of the Cassette Cladding components and keep them stable in relation to each other.

REQUIREMENTS: In addition to any of the requirements for other building work it needs to provide fixing positions for the Cassette Cladding components where they need to transfer weight or obtain 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.
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 2mm 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 3AL-D Cassette Cladding option nominally has a cavity space of 82mm between the barrier and the reverse face of the cladding panel. (The 82mm in some instances may vary from 75 to 97mm to accommodate tolerances of the underlying structure that may not be perfectly constructed.)

102 Cassette Cladding Thickness

The thickness of the 3AL-D Cassette Cladding option is nominally 85mm.
This provides the space for the necessary components that may be required to manage imperfect wall structures to fix to, ventilation, moisture, fire, strengthening of cladding panels and thermal insulation.

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 3AL-D Cassette Cladding option for P1 is nominally 43mm and for option P2 nominally 45mm.

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. 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.

111 CCS8 by CC Contractor

PURPOSE: A proprietary Cassette Cladding bracket to attach support rails to the Structure.

The CCS8 bracket works in combination with CCS12 to provide adjustment in thickness of Cassette Cladding to accommodate tolerances that may existing in the structure without having to do specific engineering design.

SUITABLE OPTIONS: Standard brackets are mill finish 6060/T5 aluminium 120mm long. Brackets may be *approved alternatives*.

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.

114 CCS13 by CC Contractor

PURPOSE: A proprietary Cassette Cladding flashing to top of CCS9 for deflection of moisture

from above away from the cladding cavity and / or limiting fire from travelling upward in the cladding cavity from below.

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

117 CCS4 by CC Contractor

PURPOSE: A proprietary Cassette Cladding internal corner extrusion to function as intermediary to connect Cassette Cladding horizontal support rails to the Structure when installed vertically.

When installed horizontally the CCS4 can act as a transition for panels from a wall below to ceiling.

The profile is equipped with flanges that can secure panel edges that terminate against it.

SUITABLE OPTIONS: CCS4 profiles are 6106/T6 aluminium and are provided as standard 3000mm long.

Surface finishing options are powder coated or anodized.

118 CCS5 by CC Contractor

PURPOSE: A proprietary Cassette Cladding external corner extrusion to function as intermediary for connecting Cassette Cladding horizontal support rails to the Structure.

SUITABLE OPTIONS: CCS5 profiles are 6060/T5 aluminium and are provided as standard 3000mm long.

Surface finishing options are mill finish, 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 Covertek 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.

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*.

136 Finishing Plate by CC Contractor

PURPOSE: To finish vertical edges of Cassette Cladding terminations.

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

138 Aluminium Angle by CC Contractor

PURPOSE: To provide a vertical termination against another structural surface for Cassette Cladding.

¹ Acceptable Solution E2/AS1 section 6.3 & 6.4

SUITABLE OPTIONS: 30 x 50 x 3mm aluminium *approved alternative*. Finishes may be powder coat or anodizing.

140 CCS4 End Cap by CC Contractor

PURPOSE: For closing off the top end of the CCS4.

SUITABLE OPTIONS: Proprietary 2mm aluminium plate. Finished in paint.

141 CCS5 End Cap by CC Contractor

PURPOSE: For closing off the top end of the CCS5.

SUITABLE OPTIONS: Proprietary 2mm aluminium plate. Finished in paint.

142 Screws by CC Contractor

PURPOSE: To connect load bearing Cassette Cladding components to the structure.

SUITABLE OPTIONS: 50mm Hex Head 12G 316 grade HWF T 17 TEK screw or *approved alternative*.

143 CCS12 by CC Contractor

PURPOSE: A proprietary Cassette Cladding bracket to attach support rails to the Structure. The CCS12 bracket works in combination with CCS8. Together they provide adjustment in thickness of Cassette Cladding to accommodate tolerances that may exist in the structure without having to do specific engineering design. SUITABLE OPTIONS: Standard brackets are mill finish 6060/T5 aluminium 120mm long. Brackets could also be *approved alternatives*.

144 CCS9 by CC Contractor

PURPOSE: A proprietary Cassette Cladding support rail to directly connect the Cassette Cladding panels to the structure 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.

CCS9 is specifically suitable for the topmost rail on a wall and at inter storey location and by the sill of openings.

CCS9 may be used in combination with CCS13 cover flashing.

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

Surface finishing options are powder coated or anodized.

145 CCS10 by CC Contractor

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

CCS10 is specifically suitable for suspending the bottom edge of panels where a high visual level of finishing is required like at the bottom edge of a fascia or head of an opening.

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

Surface finishing options are powder coated or anodized.

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.

147 Cavity Fire Barrier by CC Contractor

PURPOSE: To provide a vertical fire (smoke, flame, heat) separation in the cladding cavity.

SUITABLE OPTIONS: 120mm wide strip of 110kg/m³ Rockwool. It may be at the vertical joint position (40mm thick) or at the middle of a panel (80mm thick).

149 Opening Jamb Protector by CC Contractor

PURPOSE: To deflect potential fire away from the structure and cladding cavity.

SUITABLE OPTIONS: 2mm Stainless Steel.

150 Thermal Barrier by CC Contractor

PURPOSE: To limit heat transfer from a potential fire source to the structure and cladding cavity.

SUITABLE OPTIONS: At window head or head of opening two layers 10mm thick glass fibre fleeced plasterboard like GIB Weatherline. At jambs one layer.

151 Opening Head Protector by CC Contractor

PURPOSE: To deflect potential fire away from the structure and cladding cavity.

SUITABLE OPTIONS: 2mm Stainless Steel.

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.

154 Soffit Edge Protector by CC Contractor

PURPOSE: To deflect potential fire away from the structure and cladding cavity.

SUITABLE OPTIONS: 2mm Stainless Steel.

155 Opening Jamb Protector by CC Contractor

PURPOSE: To deflect potential fire away from the structure and cladding cavity.

SUITABLE OPTIONS: 2mm Stainless Steel.

156 Adjustment Cleat by CC Contractor

PURPOSE: For adjusting CCS10 positioning.

SUITABLE OPTIONS: 40 x 40 x 1.6mm aluminium. Finish in anodized or powder coat.

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 Cleat by CC Contractor

PURPOSE: To interconnect CCS10 rails at their corners.

SUITABLE OPTIONS: 40 x 40 x 3mm – 47mm long mill finish aluminium.

159 Jointer by CC Contractor

PURPOSE: To interconnect CCS10 rails in a straight plain.

SUITABLE OPTIONS: 80 x 40 x 3mm mill finish aluminium plate.

160 Jointer by CC Contractor

PURPOSE: To interconnect CCS13 cover flashings at an internal corner.

SUITABLE OPTIONS: 1.6mm mill finish aluminium.

161 Jointer by CC Contractor

PURPOSE: To interconnect CCS13 cover flashings at an external corner.

SUITABLE OPTIONS: 1.6mm mill finish aluminium.

162 Jointer by CC Contractor

PURPOSE: To interconnect CCS10 rails with CCS9 or CCS3.

SUITABLE OPTIONS: 80 x 40 x 3mm mill finish aluminium plate.

163 Angle by CC Contractor

PURPOSE: To connect CCS14 rails with structure.

SUITABLE OPTIONS: 80 x 150 x 3mm aluminium\$.

201 Selected facing by CC Contractor

PURPOSE: To provide a pleasing visual surface and protection to the underlying wall.

SUITABLE OPTIONS:

Mondoclad prefinished 3mm aluminium,

Alucolux 3mm prefinished aluminium,

Powder Coated 3mm aluminium or *approved alternative*.

202 / 221 Panel Perimeter Frame by CC Contractor

PURPOSE: The panel frame provides strength to the perimeter of the panel, is shaped to provide an interlocking mechanism to the support rails and in combination with the support rails and joint strips provide weathering.

SUITABLE OPTIONS: CCS1 or CCS7 frame manufactured in 6060/T5 aluminium. Finish in anodized or powder coat.

203 Screws by CC Contractor

PURPOSE: For partial attachment of the facing panel to CCS1 perimeter frame.

SUITABLE OPTIONS: 18mm square drive 8 Gauge self-drilling 410 Grade Martensitic stainless steel screw.

204 Stiffener by CC Contractor

PURPOSE: For limiting deflection in the facing panel and secondary attachment of the facing panel to the perimeter frame.

SUITABLE OPTIONS: Proprietary mill finish CCS2 profile.

205 Cleat by CC Contractor

PURPOSE: For connecting CCS2 to CCS1/CCS7.

SUITABLE OPTIONS: 40 x 40 x 1.6mm mill finish aluminium angle 30mm long.

206 Structural Adhesive by CC Contractor

PURPOSE: For connecting facing panel to CCS1/CCS7.

SUITABLE OPTIONS: Simson Panel Tac or *approved alternative*.

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.

208 CCS6 By CC Contractor

PURPOSE: A proprietary external corner clamp to hold Cassette Cladding in position.

SUITABLE OPTIONS: CCS6 profiles are 6060/T5 aluminium and are provided as standard 3000mm long.

Surface finishing options are powder coated or anodized.

209 CCS6 End Cap by CC Contractor

PURPOSE: For closing off the top and bottom ends of the CCS6.

SUITABLE OPTIONS: Proprietary 3mm aluminium as per 201 Selected Facing by CC Contractor. Finished in paint.

213 Panel Drain Hole by CC Contractor

PURPOSE: Drain holes at bottom of panel for discharge of moisture.

SUITABLE OPTIONS: 6mm diameter drain hole slot 50mm from panel edge at bottom edge of panel.

214 Screw by CC Contractor

PURPOSE: For connecting the corner cleats that interconnect different panel perimeter frames.

SUITABLE OPTIONS: 6mm square drive pan head 8 Gauge self-drilling 410 Grade Martensitic stainless steel screw.

216 Joint Deflector by CC Contractor

PURPOSE: To manage moisture where joins occur.

SUITABLE OPTIONS: 0.9mm aluminium minimum.

217 Finishing facing by CC Contractor

PURPOSE: To deflect moisture from the wall cavity. To provide a visually pleasing look that may be apparent when viewing the completed installation.

SUITABLE OPTIONS: As per 201.

218 Foam Tape by CC Contractor

PURPOSE: To avoid wind vibration.

SUITABLE OPTIONS: 3 x 20mm single sided foam tape 50mm long at 500mm c/c.

219 Adhesive Tape by CC Contractor

PURPOSE: To bond CCS2 or CCS7 to reverse face of facing panel.

SUITABLE OPTIONS: 1.6mm x 12.7mm 3M VHB Tape.

222 Cleat by CC Contractor

PURPOSE: For connecting corners of panels.

SUITABLE OPTIONS: 40mm x 40mm x 1.6mm mill finish aluminium angle 17mm long.

223 Finishing Trim by CC Contractor

PURPOSE: An option for tidily finishing square cut facing panels edges using perimeter frame CCS7.

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

224 Back Panel by CC Contractor

PURPOSE: Containment of P3 componentry.
SUITABLE OPTIONS: 0.9mm stainless steel tray.

225 Thermal Ram by CC Contractor

PURPOSE: Assisting in release of P3 facing panel.
SUITABLE OPTIONS: Proprietary Cassette Cladding ram.

226 Hinge by CC Contractor

PURPOSE: Pivotal point for P3 facing panel.
SUITABLE OPTIONS: Stainless steel piano hinge.

227 Perimeter Seal by CC Contractor

PURPOSE: For moisture proofing of panel P3.
SUITABLE OPTIONS: Proprietary Cassette Cladding filler.

228 Perimeter Seal by CC Contractor

PURPOSE: For moisture proofing of panel P3.
SUITABLE OPTIONS: Proprietary Cassette Cladding filler.

229 Facing Panel by CC Contractor

PURPOSE: For deflection of fire from below.
SUITABLE OPTIONS: 2mm stainless steel.

230 Restrainer by CC Contractor

PURPOSE: For governing the amount of tilt in item 229.
SUITABLE OPTIONS: Cassette Cladding proprietary steel cable.

232 Escutcheon Plate by CC Contractor

PURPOSE: To provide a tidy finish to the facing panel when a penetration passes through.
Optional.
SUITABLE OPTIONS: Same as 201.

233 Screw by CCS Contractor

PURPOSE: To connect facing panel to edge of CCS7.
SUITABLE OPTIONS: 18mm 8G Counter Sunk Square Drive 410 Grade Martensitic stainless steel screw.