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Other brochures available on request from Kawneer are:

- Architectural Aluminium Systems Finishes
- Door Systems
- Framing Systems
- Unitised Curtain Wall Systems
- AA®130 Brise Soleil System
Solar Shading for Reduced Solar Heat Gain
- Window Systems
- Juliet Balcony
- LouvreShield
- Sliding Solutions
- Residential Aluminium Glazing Systems
- Specialist Horizontal Sliding Window Solutions for your Healthcare Project
- Fire Resistant Systems
- The Architects Guide to Aluminium in Building
- Sustainability
- Maintenance and Cleaning



Kawneer's continuous development and engineering programmes may bring about product changes. Kawneer reserves the right to introduce without notice such changes which will not detract from the product's performance
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Building
Legacies

CURTAIN WALL SYSTEMS



ARCHITECTURAL ALUMINIUM GLAZING SYSTEMS

AA®100 50mm Curtain Wall System

Introduction

A stick-frame assembly with weather performance achieved by drainage and ventilation of the glazing rebates. Drainage and ventilation occurs at every mullion and transom connection in a zone drained system and at the base and above mullion joints in a mullion drained system.

The system is available in a variety of mullion depths which combined with several thermal break options, including an enhanced thermal performance option, and aesthetic external capping allows a specifier the flexibility of design to make their own statement. The system has outstanding performance and its ease of installation makes it possible to suit individual project requirements.

The AA®100 is suitable for vertical and sloped applications including faceted walls.

Design Considerations

A comprehensive range of mullions and transoms allow façades to be designed with minimal structural support. The selection of mullion is dependent on several factors:

- The span (the distance between the fixings to supporting structure)
- The mullion centres (up to 3.0m using AA®100 curtain walling)*
- Windload (up to 2400 Pa)
- Maximum weight of infill (up to 600kg)
- The deflection limitations of the glazing system
- The drainage method required; i.e. zone or mullion

Guidance on this element of the curtain wall design should be sought from the Kawneer Architectural Services Team.

* For mullion centres greater than 3.0m contact the Technical Services Team at Runcorn.

Product Features and Benefits

- Concealed zone drainage - each pane acts as an individual self-draining unit or mullion drainage - ventilation and drainage via the mullions
- Glazing up to 50mm
- Large choice of face caps to enable total design flexibility to suite your individual aesthetic requirements
- Bespoke face caps available (subject to approval)
- Fire resistant solution providing uniformity of the façade in accordance with Pr EN 1364-3, with up to 30 minutes integrity and insulation
- Patented transom overlap detail which gives the uniform aesthetic finish

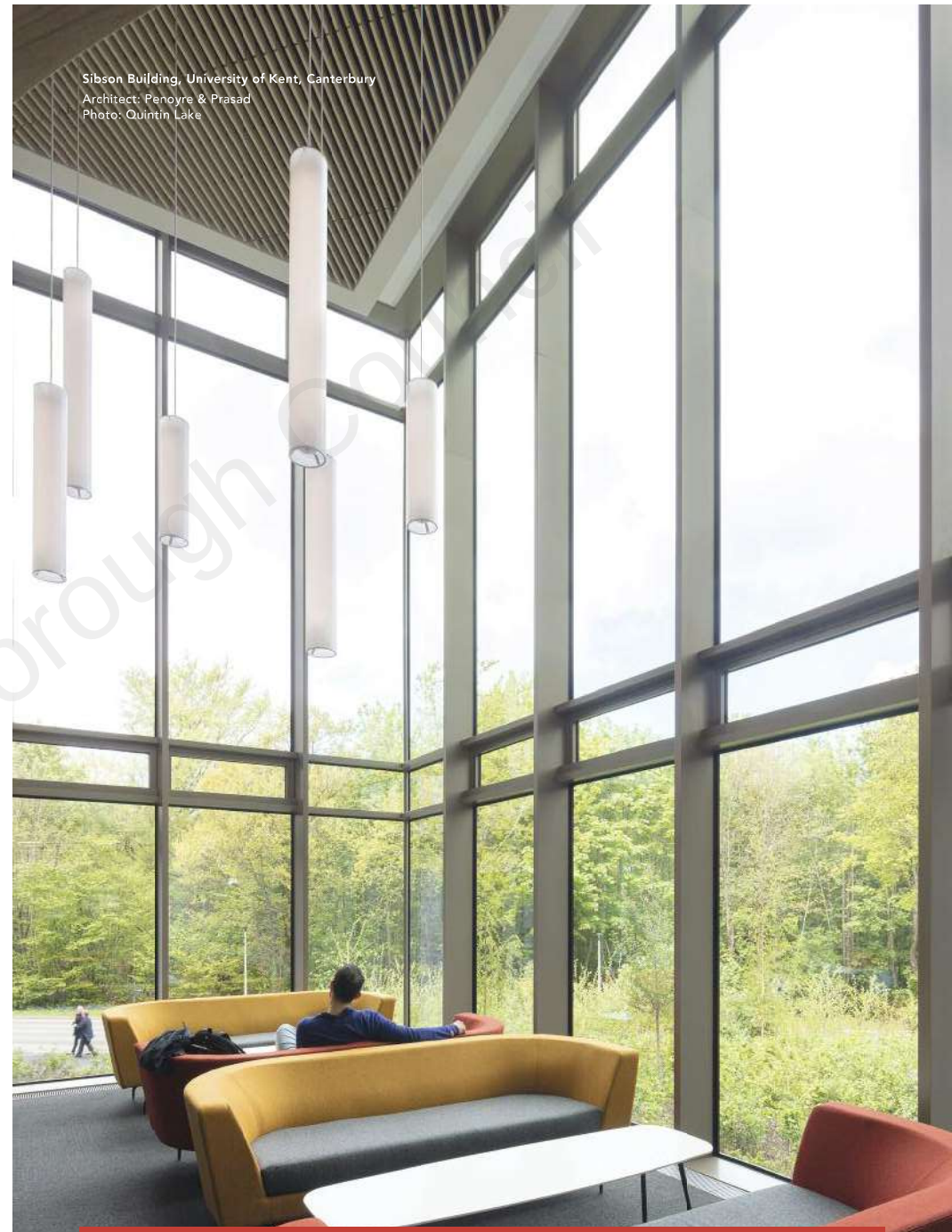
- Market leading product tested and certified in accordance with CWCT Sequence B
- Range of mullion, transom and face cap options with 50mm sightlines
- Enhanced thermal performance to meet or exceed current Building Regulations
- Incorporates AA®130 Brise Soleil System
- Facilitates the integration of opening window products including a concealed vent option
- HC/VC gasket system provided as an alternative to structural glazed solutions

AA®100 HC/VC (Horizontal/Vertical Cap)

The Horizontal/Vertical Cap provides the specifier the opportunity to highlight the horizontal or vertical features across the building envelope and gives the building its individual signature. The variety of distinctive face caps gives total flexibility in design. The system has been exclusively designed, developed and supplied by Kawneer, with installation contracts carried out by approved Dealers.



AA®100 50mm

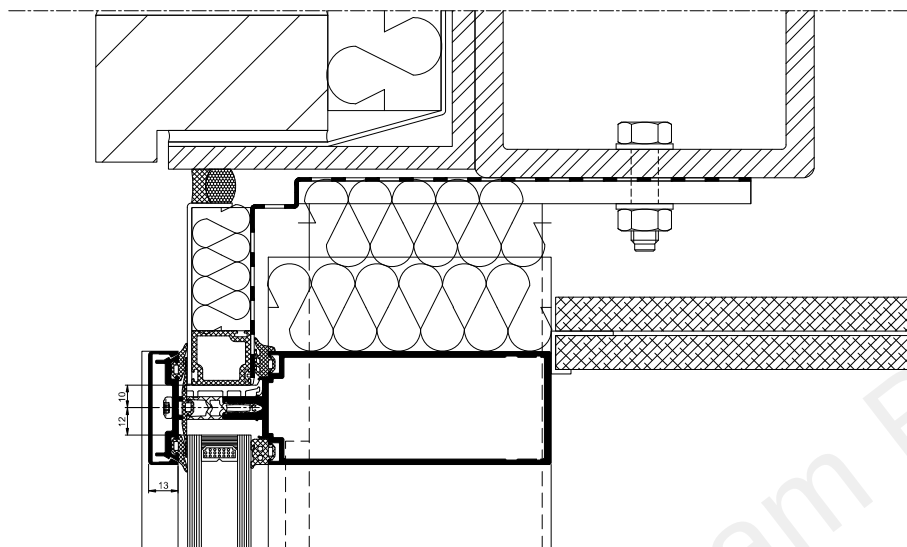


Sibson Building, University of Kent, Canterbury
Architect: Penoyre & Prasad
Photo: Quintin Lake

AA®100 50mm and AA®110 65mm Zone Drained Façade

Full details can be downloaded from our website www.kawneer.co.uk

Head Detail

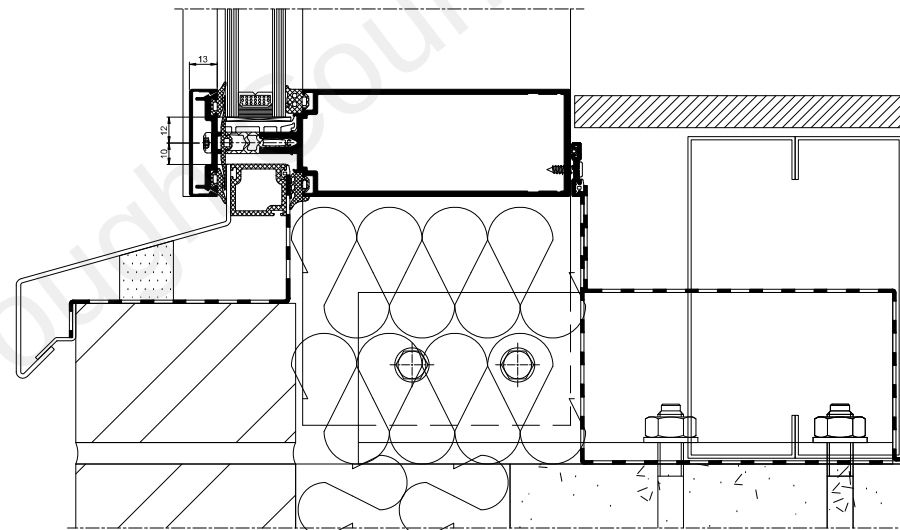


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AA®100 50mm and AA®110 65mm Zone Drained Façade

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Cill Detail

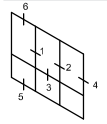
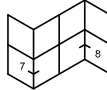


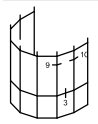
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AA®100 50mm and AA®110 65mm Zone Drained Façade Applications

Typical Elevations

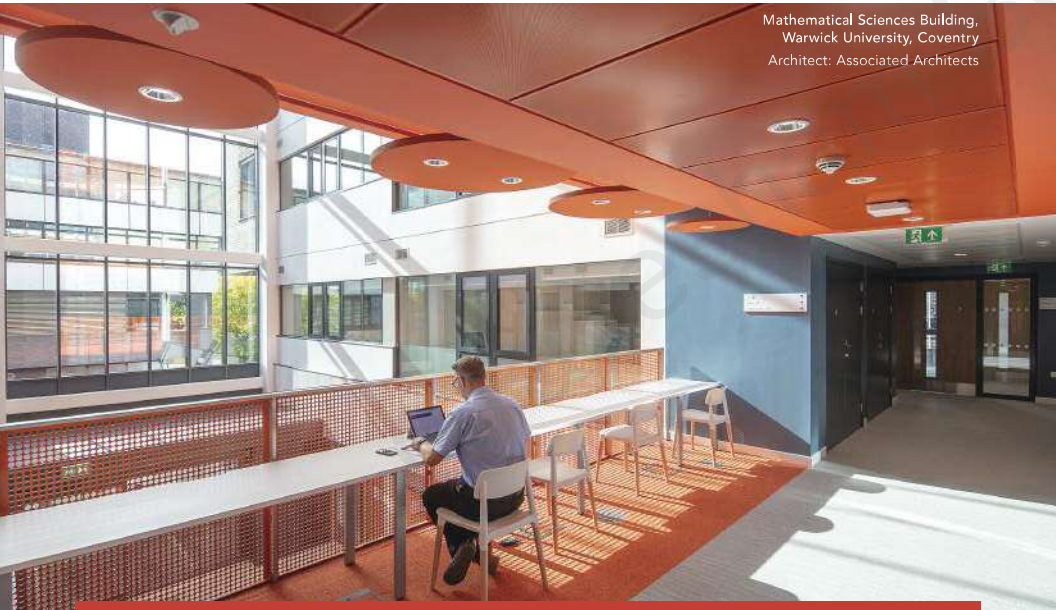
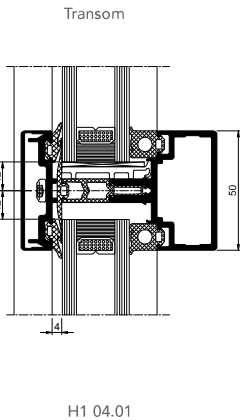
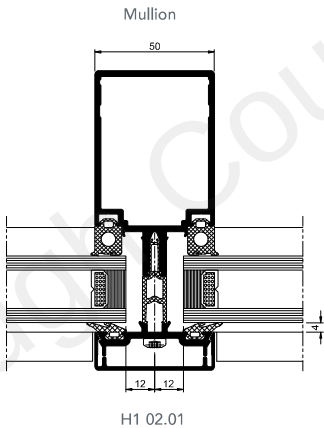
Full details can be downloaded from our website www.kawneer.co.uk

Elevation	Title	Website cad ref no.
	1 Intermediate Mullion	H1 02.01
	2 Expansion Mullion	H1 03.01
	3 Intermediate Transom	H1 04.01
	4 Jamb detail (generic)	H1 10.01
	5 Cill detail (generic)	H1 11.01
	6 Head detail (generic)	H1 12.01
	7 External Corner	H1 05.01
	8 Internal Corner	H1 06.01

Elevation	Title	Website cad ref no.
	3 Intermediate Transom	H1 04.01
	9 Convex Faceted Mullion	H1 07.01
	10 Convex Faceted Mullion	H1 08.01
	3 Intermediate Transom	H1 04.01
	11 Convex Faceted Mullion	H1 09.01

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Mathematical Sciences Building,
Warwick University, Coventry
Architect: Associated Architects

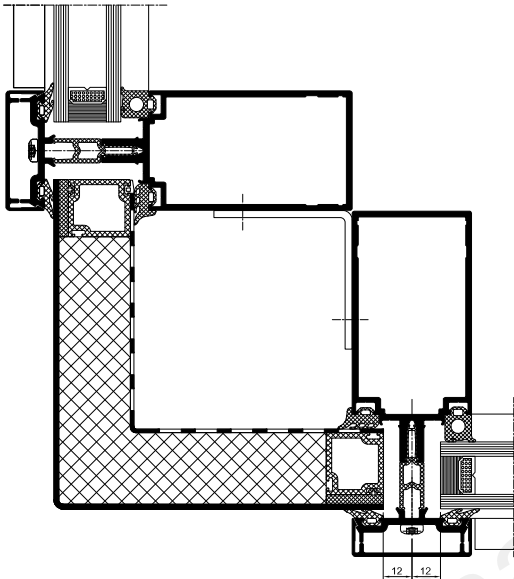


International Convention Centre for Wales, Newport
Architect: Boyes Rees Architects

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External Corner

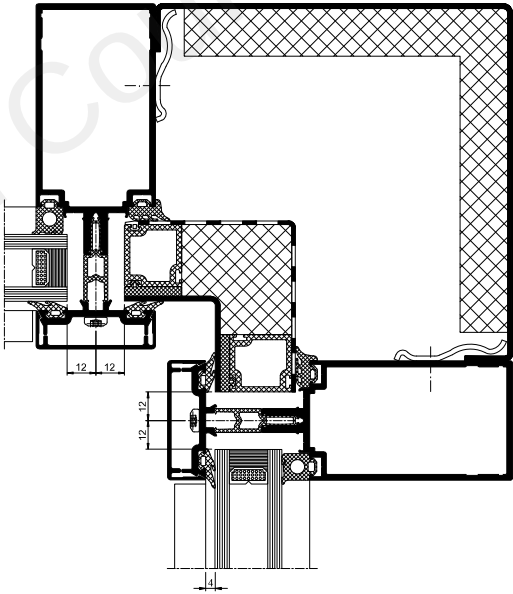


H1 05.01

AA®100 50mm and AA®110 65mm Zone Drained Façade

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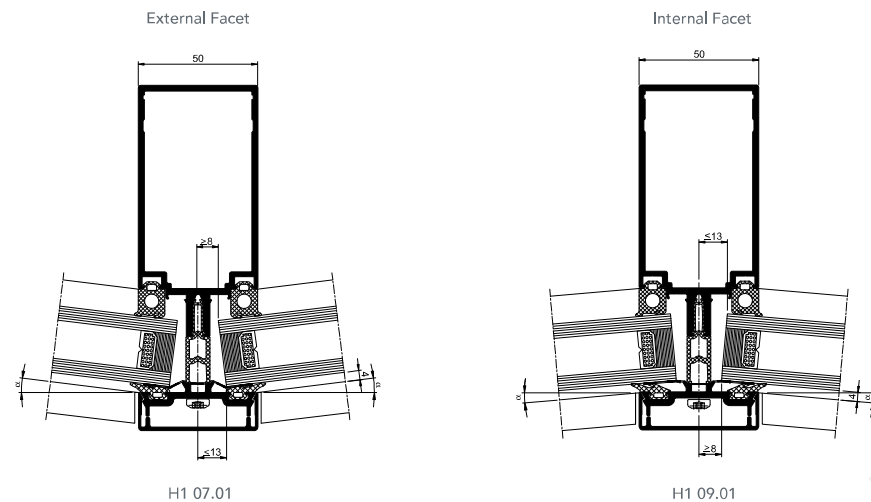
Internal Corner



H1 06.01

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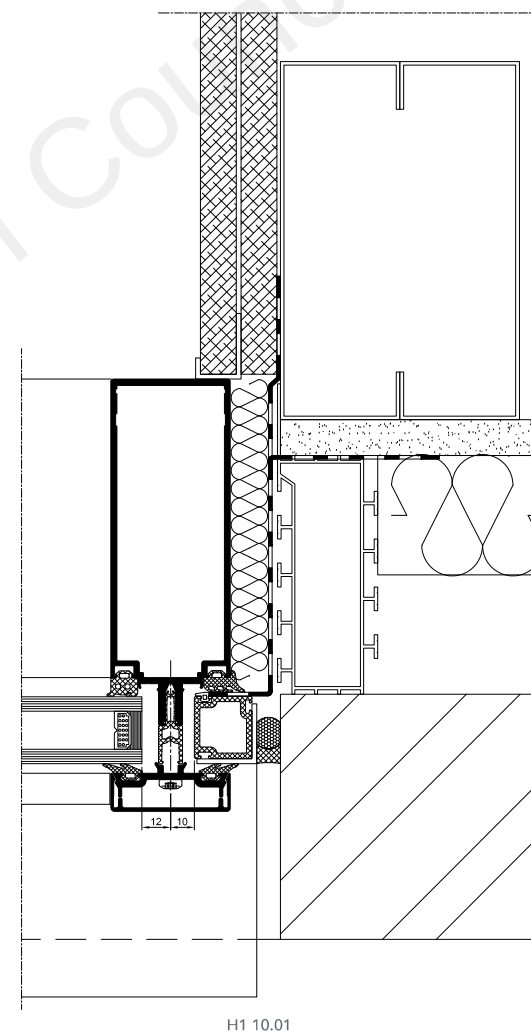
Canolfan S4C Yr Egin, University of Wales, Carmarthen
 Architect: BDP
 Photo: © Craig Auckland/fotohaus



AA®100 50mm and AA®110 65mm Zone Drained Façade

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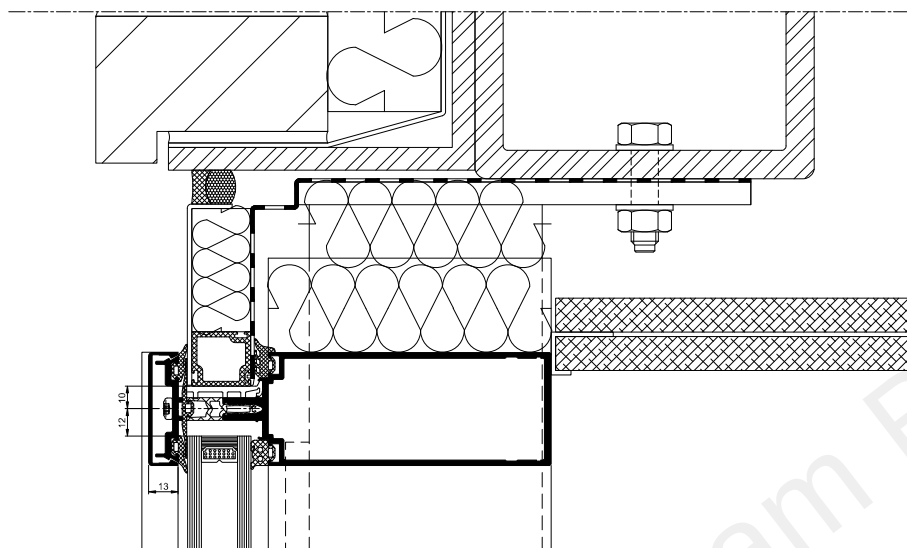
Jamb Interface Detail (Example)



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Head Detail

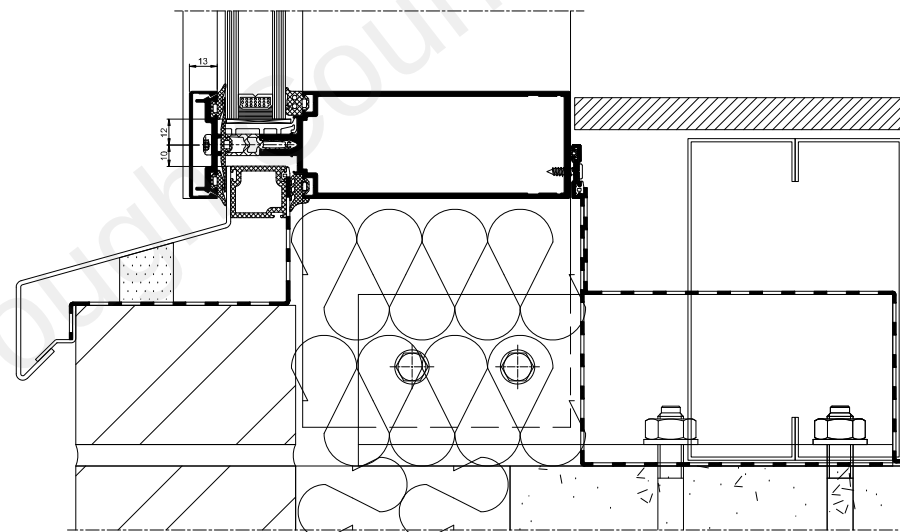


H1 12.01

AA®100 50mm and AA®110 65mm Zone Drained Façade

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Cill Detail



H1 11.01