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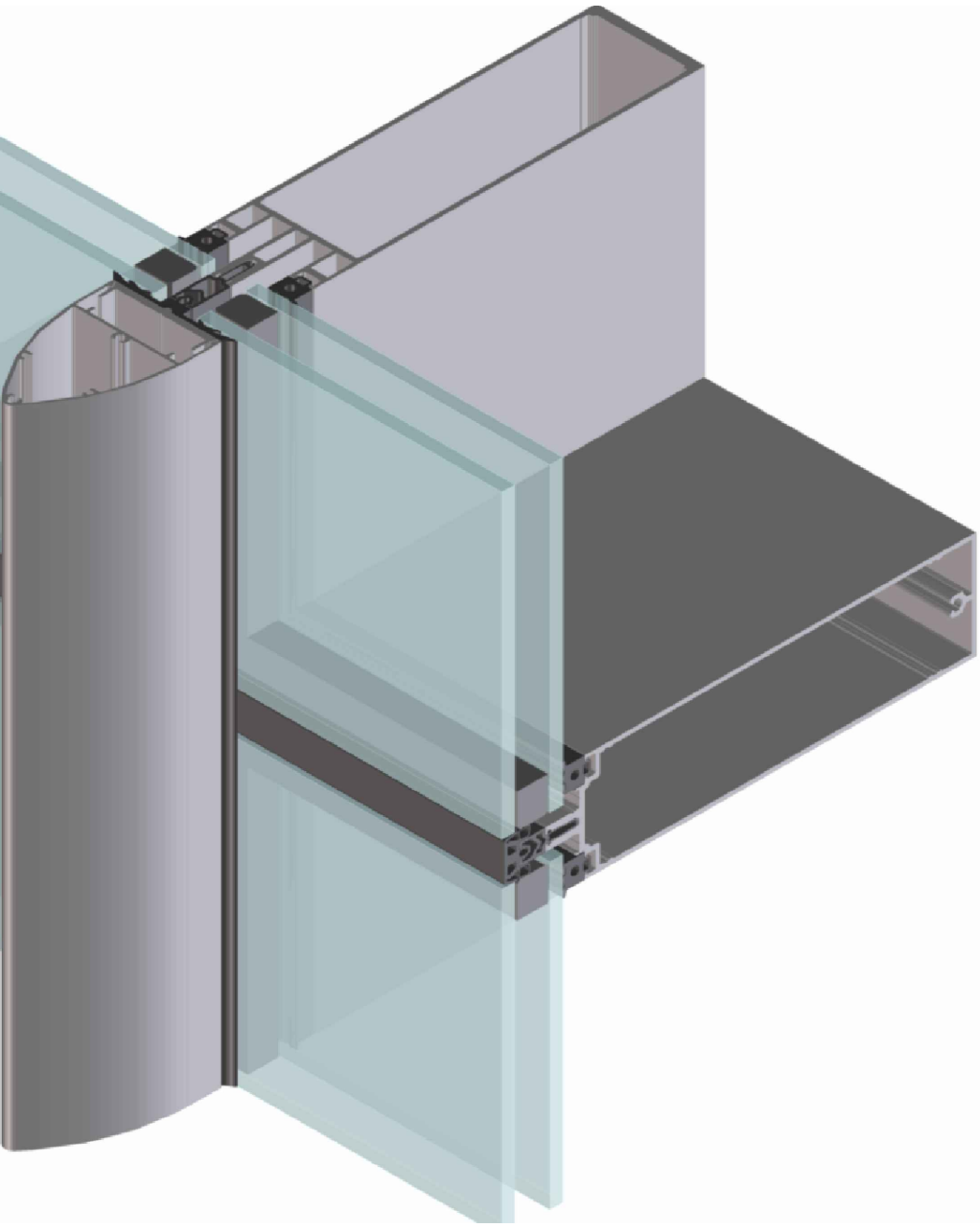
2 Typical detail

Comar 6EFT

2sided SGV



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Introduction
Comar 6EFT 2Sided SGV

Comar 6EFT 2Sided Vertical Curtain Wall System enables the construction of attractive 2sided structural glazed curtain walling, with the benefits of slim horizontal sightlines or, by using different vertical cover cap design features.

This thermally insulated system consists of standard 50mm profiles, bespoke profiles are available upon request.

Specification Summary

Comar 6EFT 2Sided Vertical Curtain Walling is a mullion drained, thermally broken curtain wall system, which consists of 50mm mullions and transoms suitable for facades.

The external horizontal sightline (joint seal) is 20mm. The joint seal can be made from EPDM, compatible with most silicone sealants or this can be made out of silicone sealant.

Various cover caps are available for this system. The smallest sightline can be achieved using a 50 mm wide double chamfered cap to provide a visible front face of 16mm

Glazing
The system is externally glazed. Glazing should conform to the requirements of BS 6262 for thickness, type, wind resistance, safety and security.

Drainage
The system is mullion drained, achieved by meeting the requirements of "ventilated and drained glazing system" as specified in BS 6262

Thermal Insulation
Class 2.1 in accordance with DIN 4108 (2.0-2.8 W/m^{2}K) or EN ISO 10077 - 1

The thermal transmittance (Uf) W/m^{2}K, is depending on the insulator strip, calculated as per EN ISO 10077 - 1.
Comparable with class 2.1 DIN 4108 - 4 Table 3

Sound Insulation
Dependant on the glass specification, generally the curtain wall framing reduces the figure by 2dB (A).

Materials
The system is constructed from extruded aluminium profiles, using alloy 6063 complying to the requirements of BS 1474.
The thermal barrier system is achieved by means of PVC/PP extrusion

Construction
Any instructions regarding the manuufacture and installation of the system must be strictly adhered to.

Weathering
Glazing vision strips are made of EPDM conforming to BS 4255 Part 1

Performance / exposure category
The system will achieve the following criteria when manufactured, installed and glazed to EFT recommended procedures, in accordance with CWCT approved testing methods.

Classification

Air permeability: BS EN 12152 - Class AE 750

Water tightness: BS EN 12154 - Class RE 750

Wind resistance: BS EN 13116 -
2400 Pa design - 3600 Pa safety

2400Pa (Pascal's) is dependant upon correct mullion and transom selection to suit span and spacing by project.

Size limitations
The size limitations of the system depends mainly on the mullion/transom members used to suit the span, spacing and wind/dead loads, which are specific for each individual project.
Please refer to Comar's Technical Office for advise.

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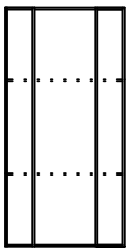
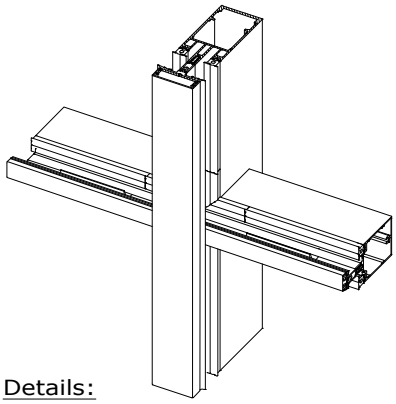
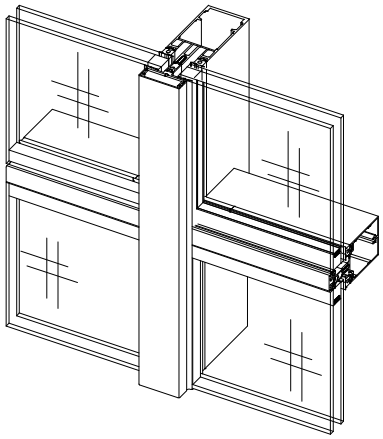
Typical details 2

Comar 6EFT



Typical Exploded Detail
Vertical cover cap
(2sided SGV)





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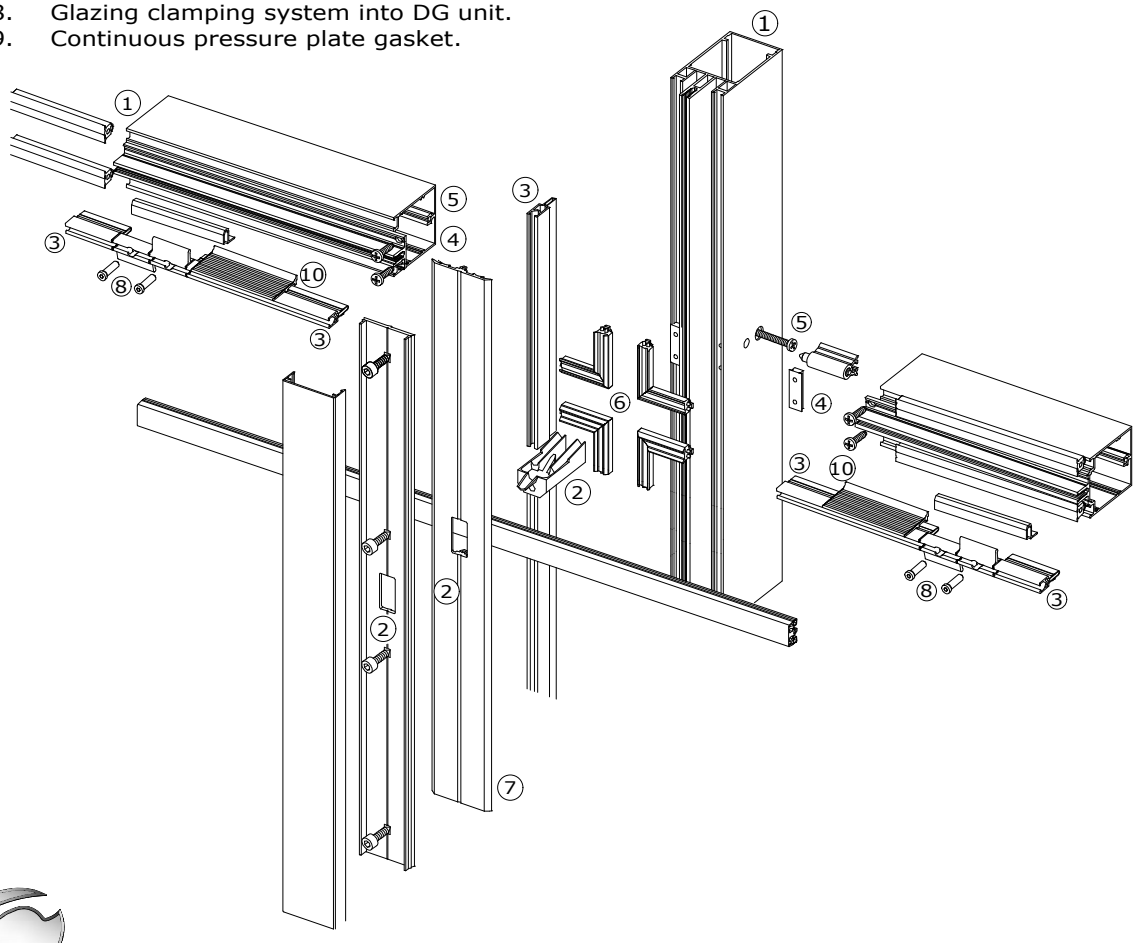
Details:

1. One substructure for all curtain wall types, Fully Capped, 2sided SGH, 2sided SGV & 4sided SG.
2. Controlled drainage system (mullion drained) drainage diverter/cover.
3. Thermally broken.
4. Mullion-Transom step-cut & sealed by EPDM moulding.
5. Ladder (unit) construction or stick build.
6. Moulded EPDM corners available.
7. Continuous pressure plate gasket.
8. Glazing clamping system into DG unit.
9. Continuous pressure plate gasket.



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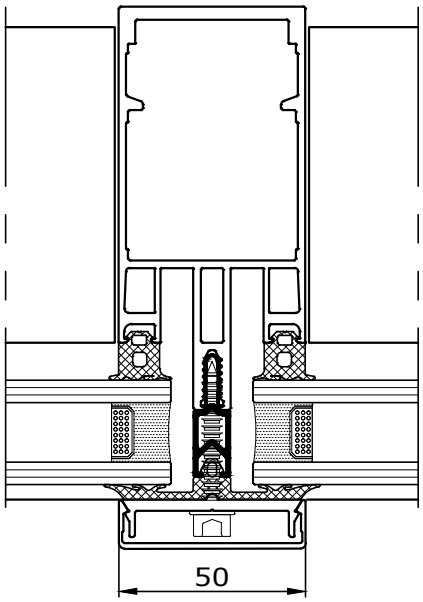
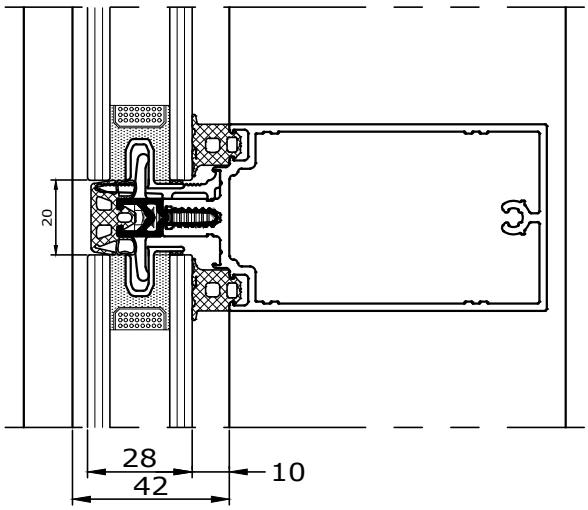
Two sided structural glazing with vertical cover cap (2sided SGV)

Vertical cover cap / Horizontal EPDM gasket or silicone sealant.





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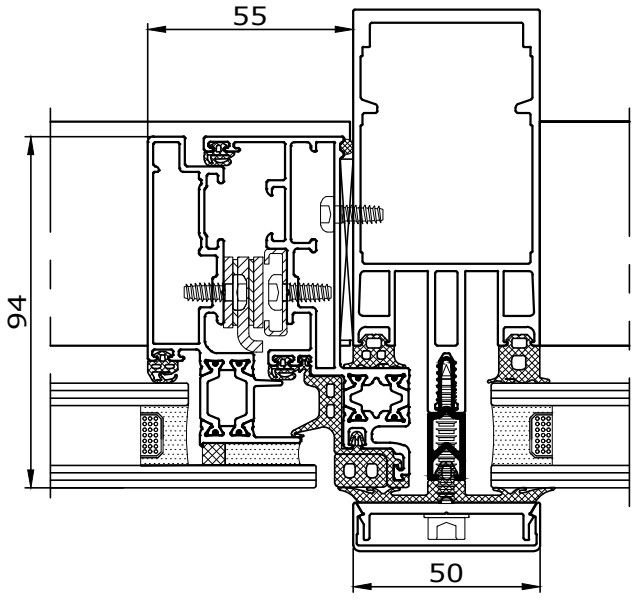
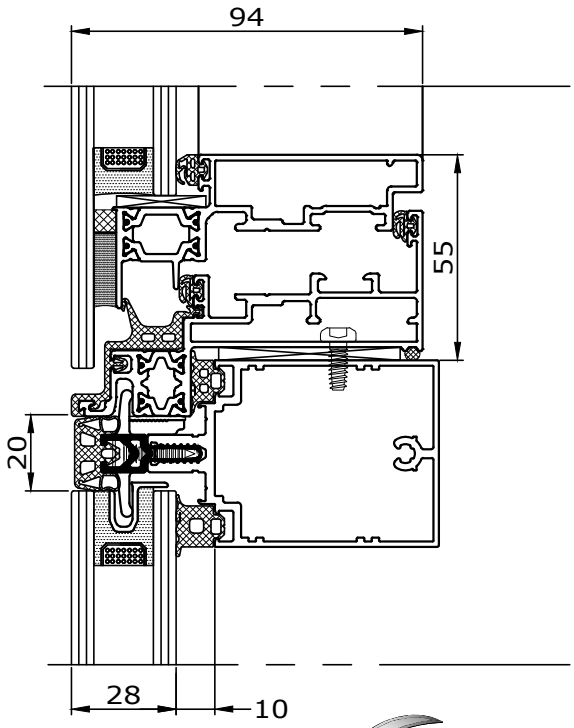
Including Comar 6EFT Concealed Vent





For concealed vent details, refer to section 8

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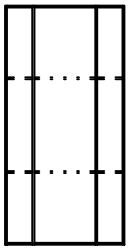
Typical details 2

Comar 6EFT

Mullion detail



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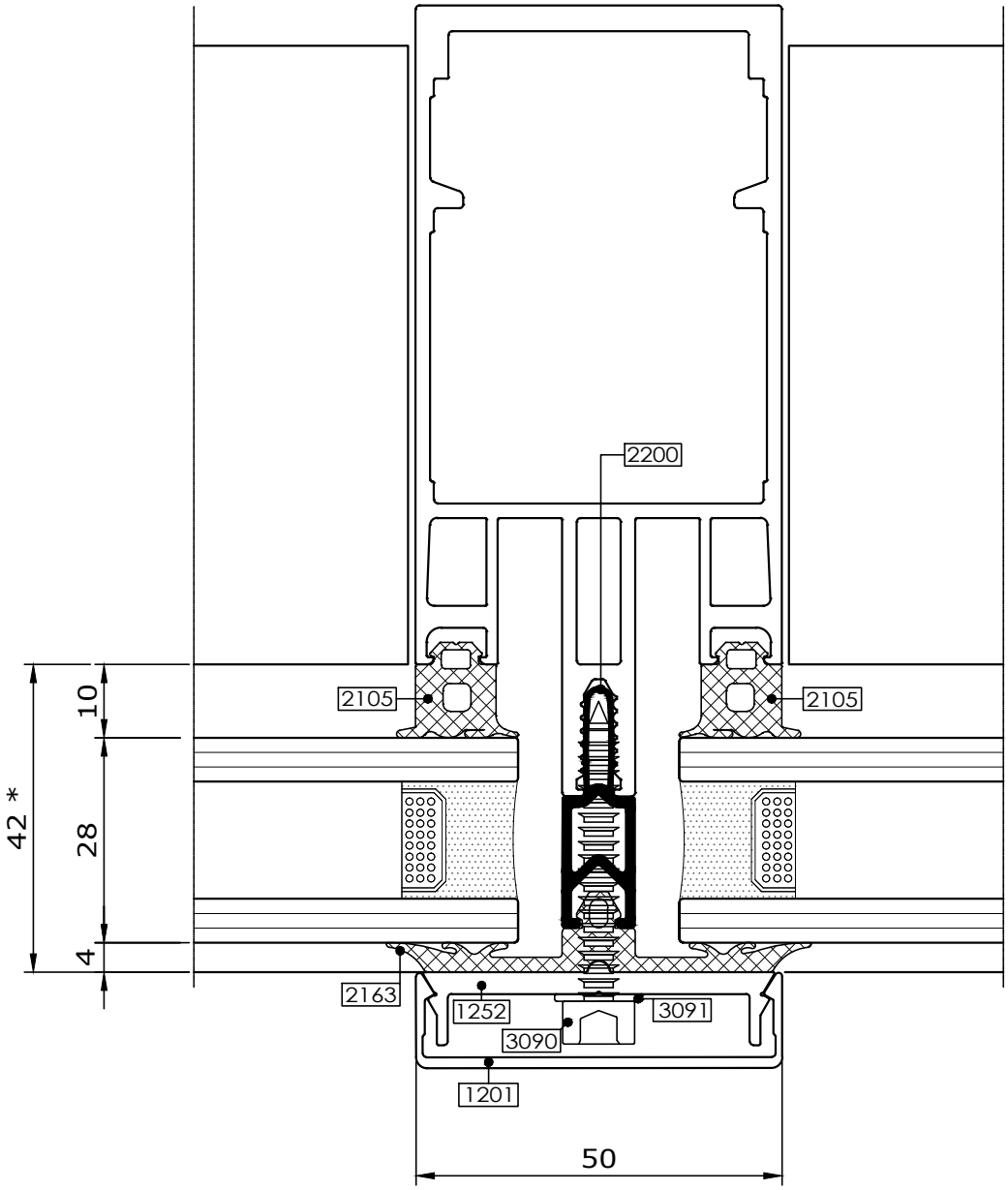

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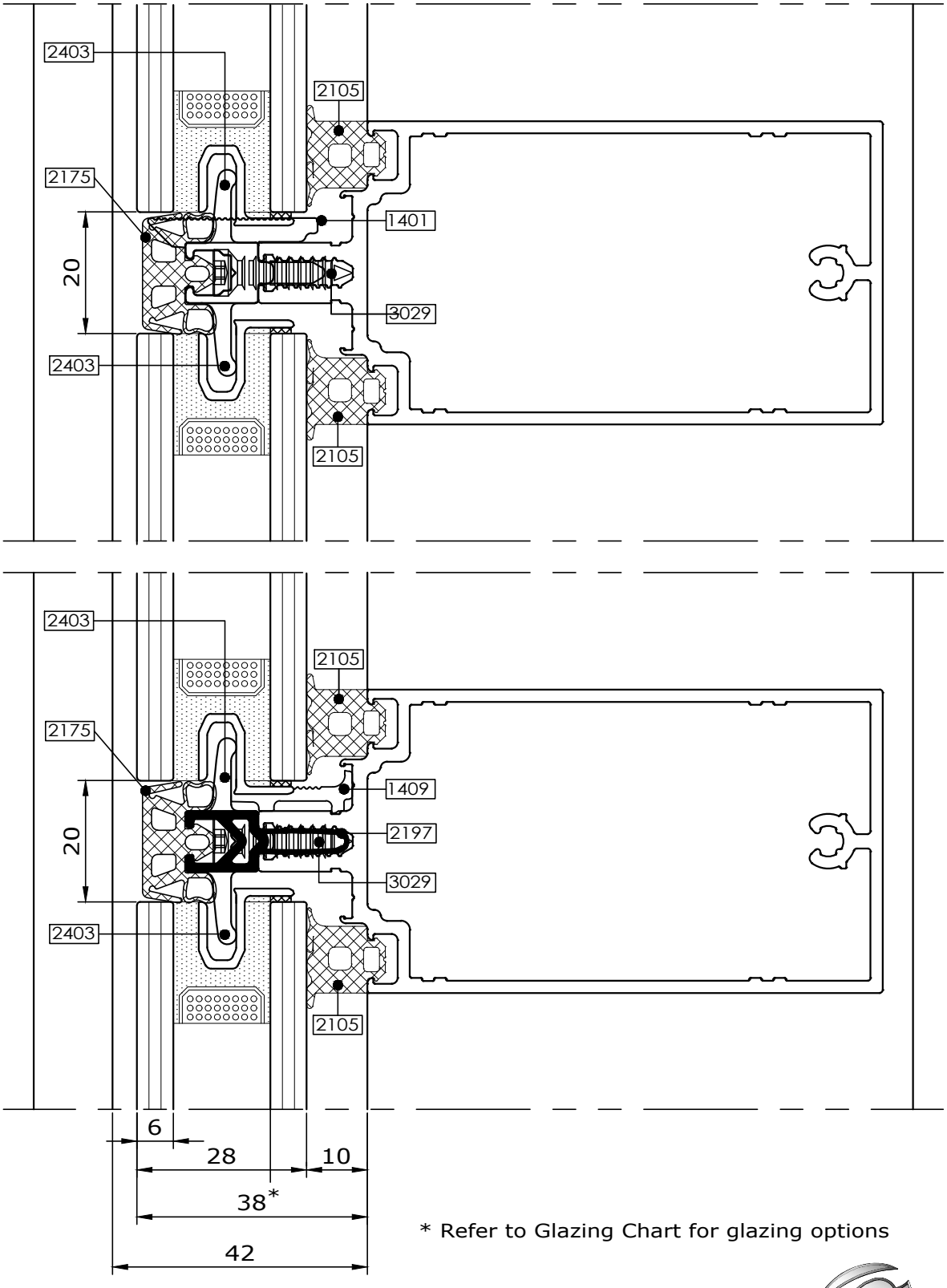
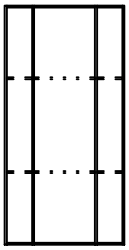
2 Typical details

Comar 6EFT

Transom detail
Gasket seal





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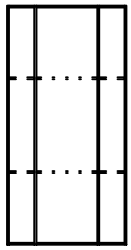
Typical details 2

Comar 6EFT

Transom detail
Gasket seal



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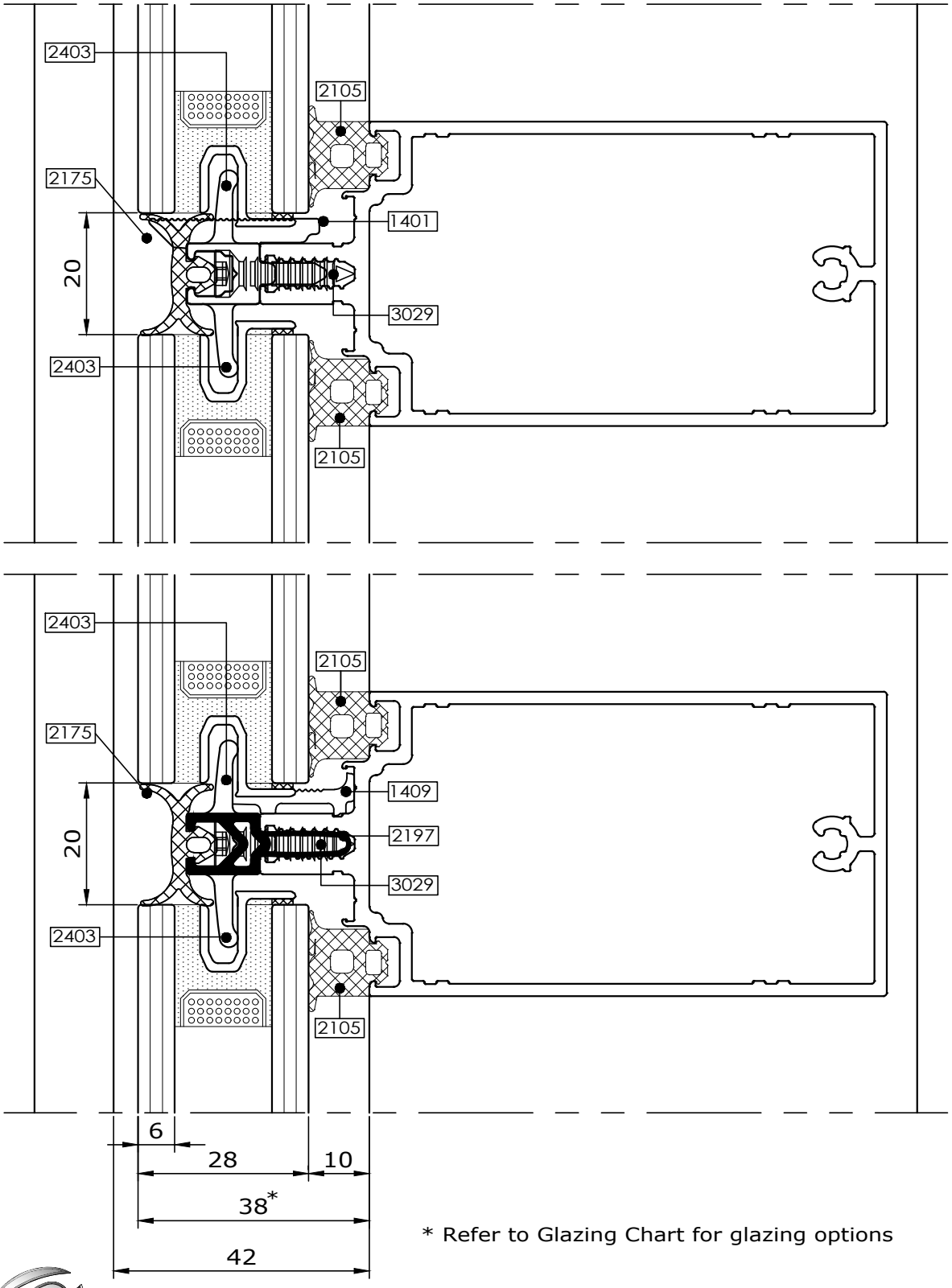

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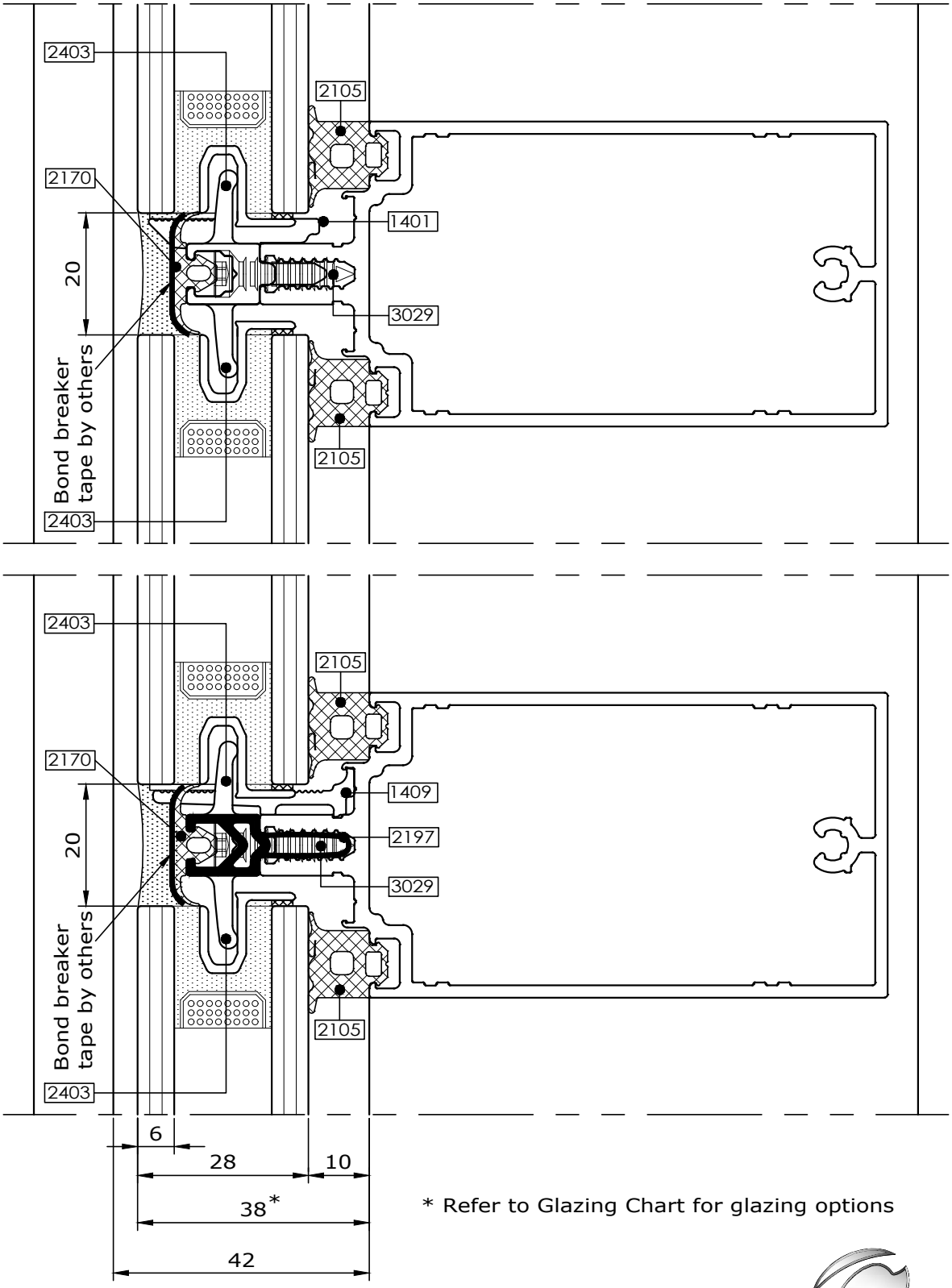
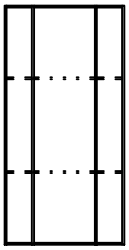
2 Typical details

Comar 6EFT

Transom detail
Silicone seal





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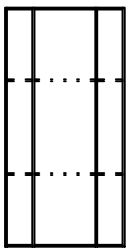
Typical details 2

Comar 6EFT

Mullion corner post



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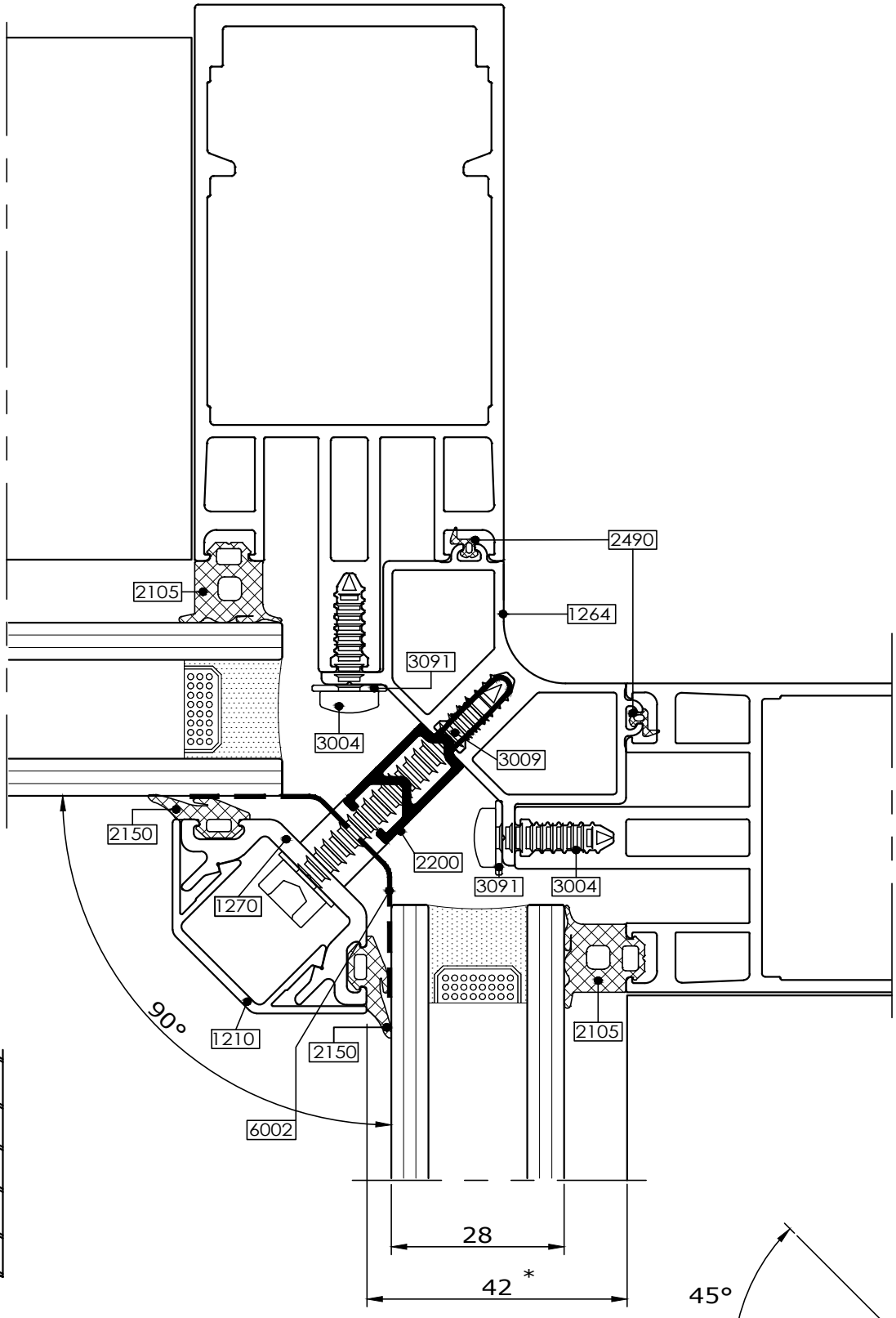

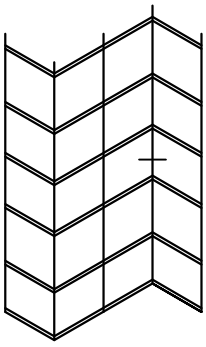

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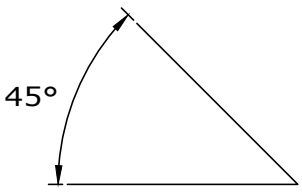

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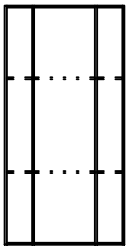
2 Typical details

Comar 6EFT

45° mullion corner post



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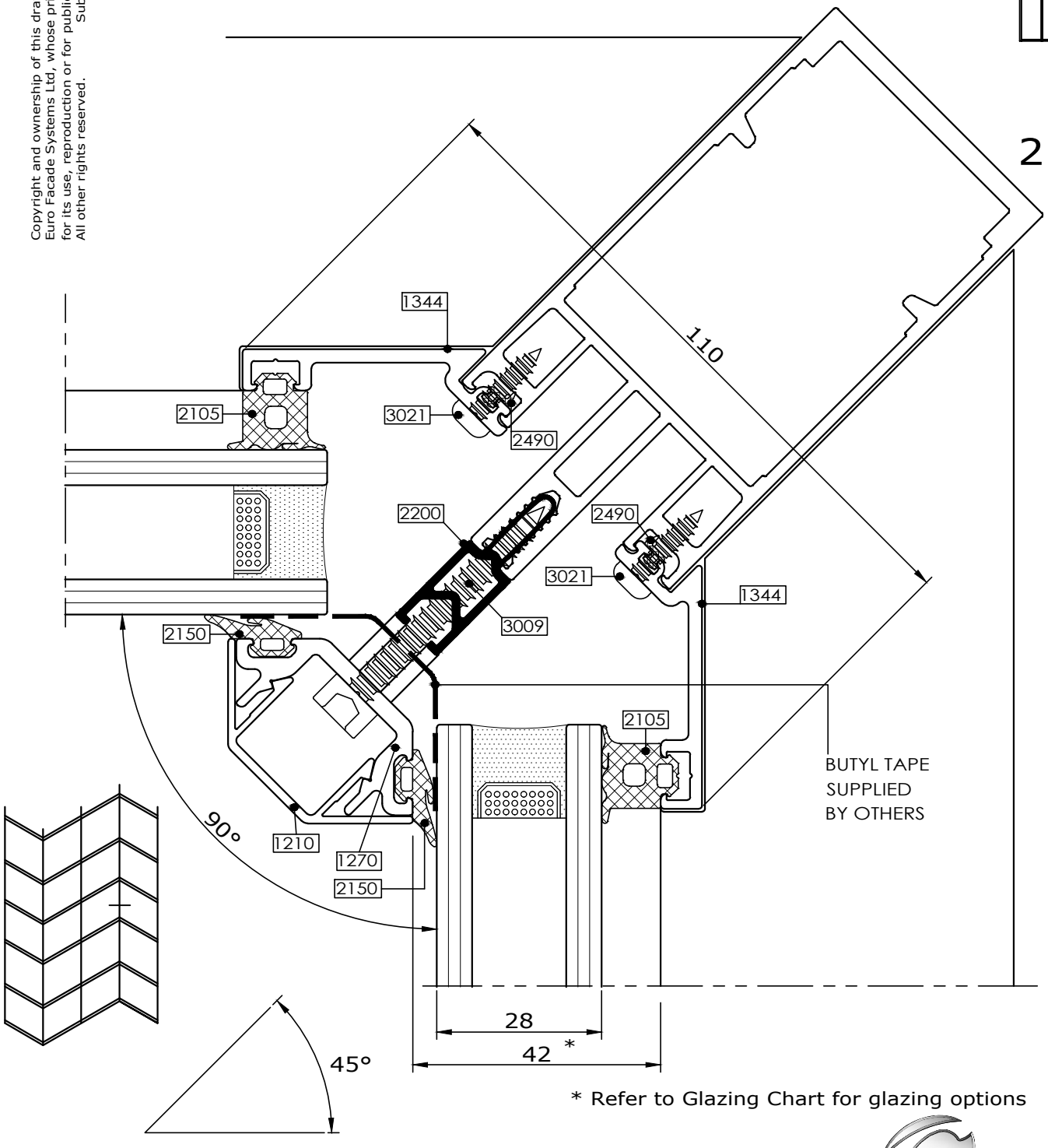

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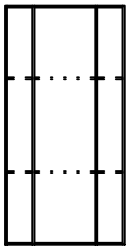

Mullion detail
45 degree corner

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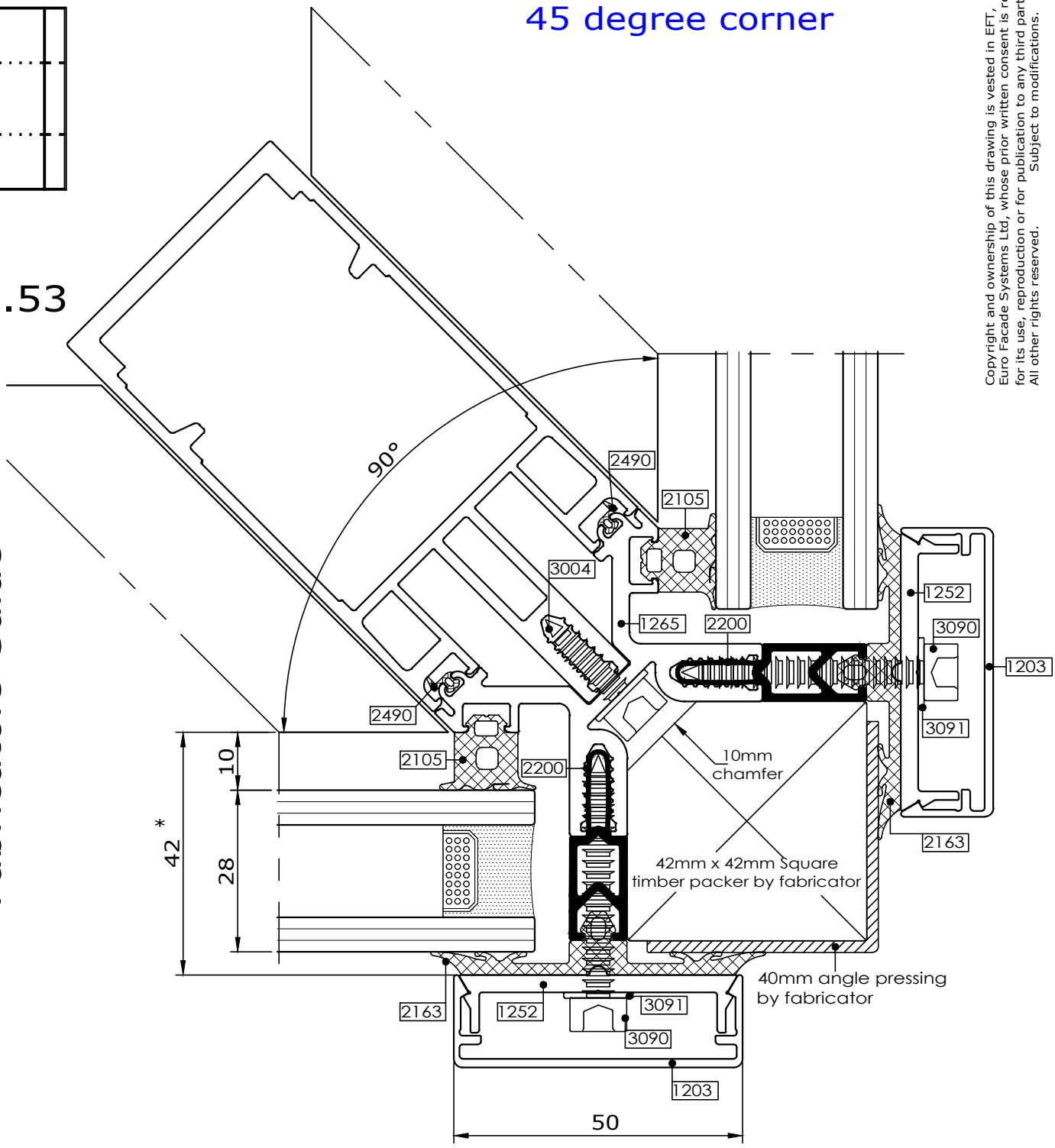

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