

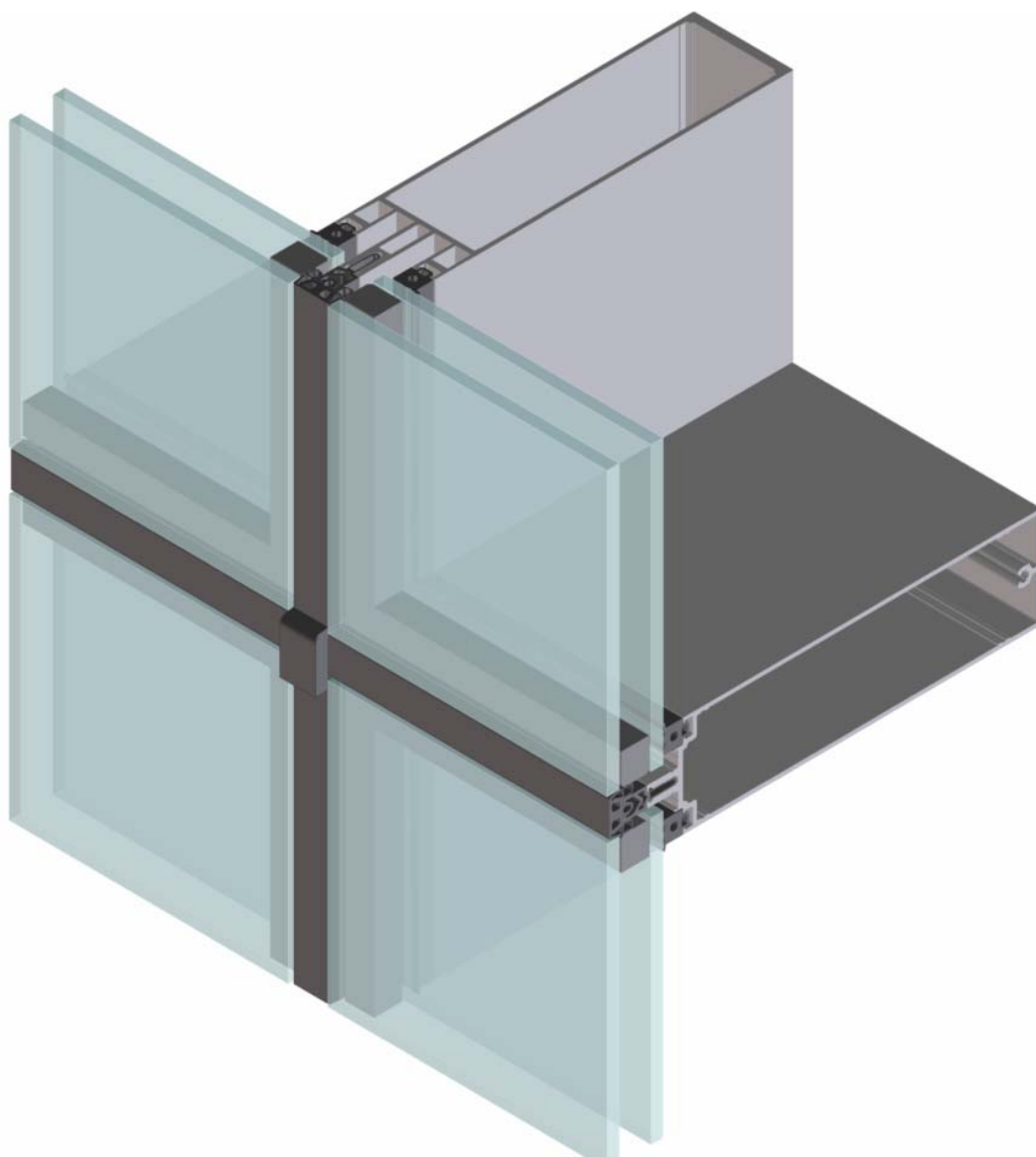
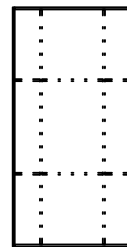
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4sided SG

2

Typical details

Comar 6EFT



Fabricators Guide

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Issue: 05  
Date : 10 -16



## Introduction

### Comar 6EFT 4Sided SG

**Comar 6EFT 4Sided Structural Glazed Curtain Wall System** enables the construction of curtain walling, with the benefits of slim sightlines.

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

## Specification Summary

Comar 6EFT 4sided structural glazing is a mullion drained, thermally broken curtain wall system, with standardised 50mm mullions and transoms.

The external vertical and horizontal sightline (joint seal) is 20mm.

The joint seal can be made of 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<sup>2</sup>K) or EN ISO 10077 - 1

The thermal transmittance (Uf) W/m<sup>2</sup>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 manufacture 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.

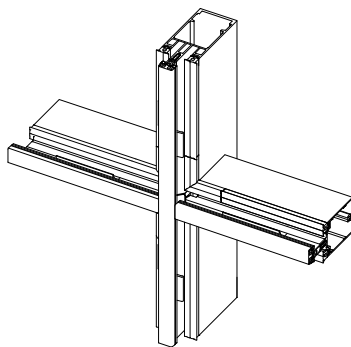
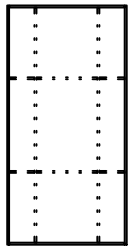
### Size limitations

The size limitations of the system depends mainly on the hardware used. Please refer to Comar's Technical Office for advise.

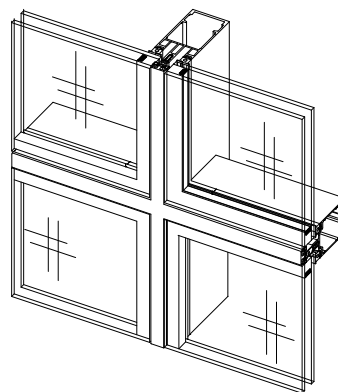
## Typical details

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### Comar 6EFT

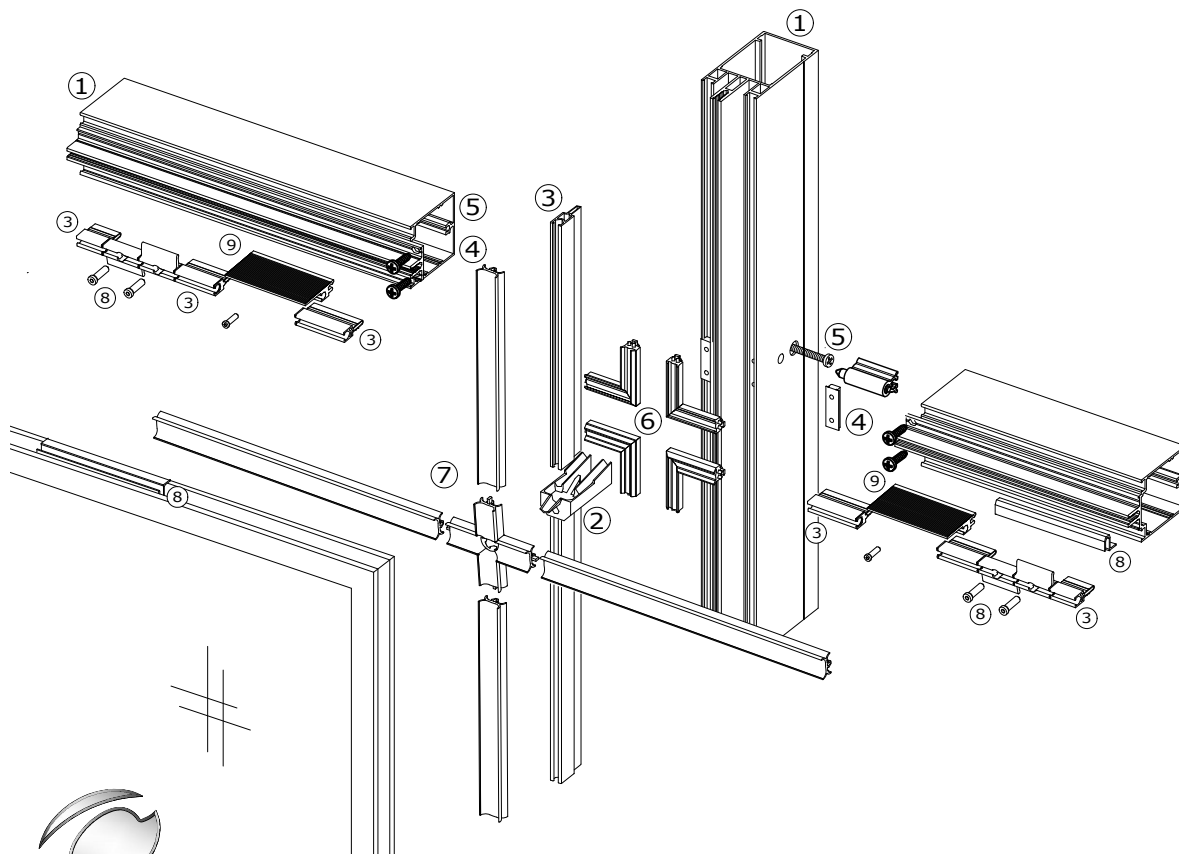


### Typical Exploded Detail Four Sided Structural EFT (4sided SG)



#### 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 gasket.
5. Ladder (unit) construction or stick build.
6. Moulded EPDM corners available.
7. Joint cruciform gasket.
8. Glazing clamping system into DG unit.
9. Glass setting block



## Fabrications Guide



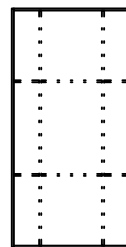
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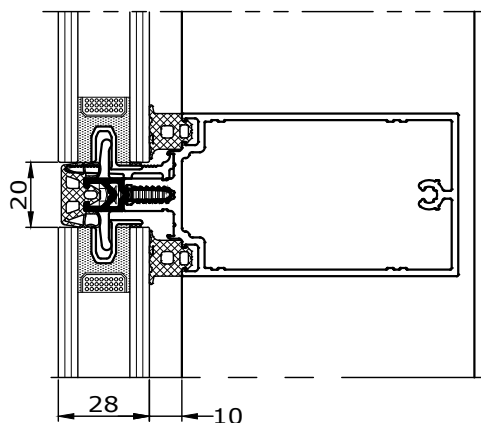
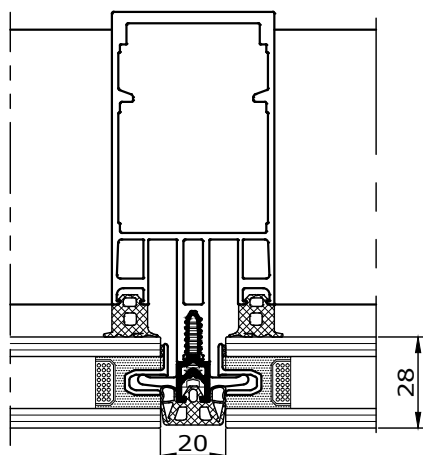
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## Four sided structural glazing (4sided SG)

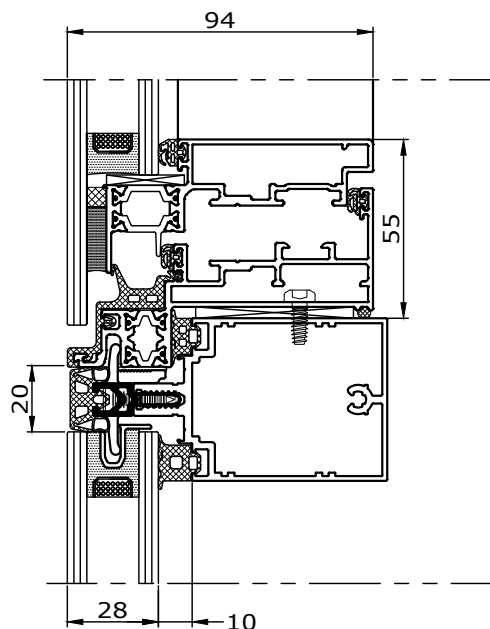
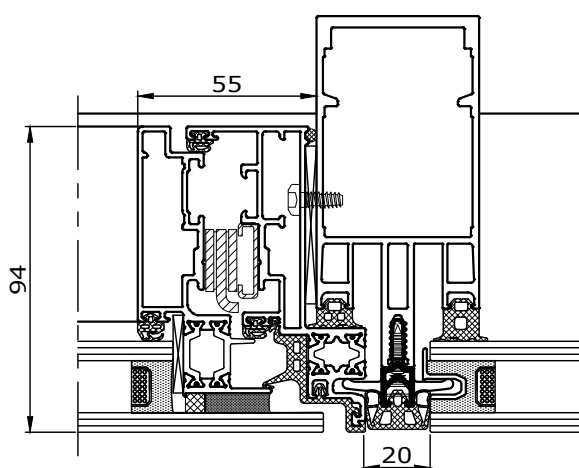
Comar 6EFT



2.56



Including Comar 6EFT Concealed Vent



For concealed vent details, refer to  
section 8

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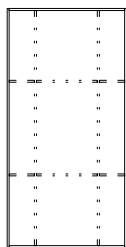
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# Typical details

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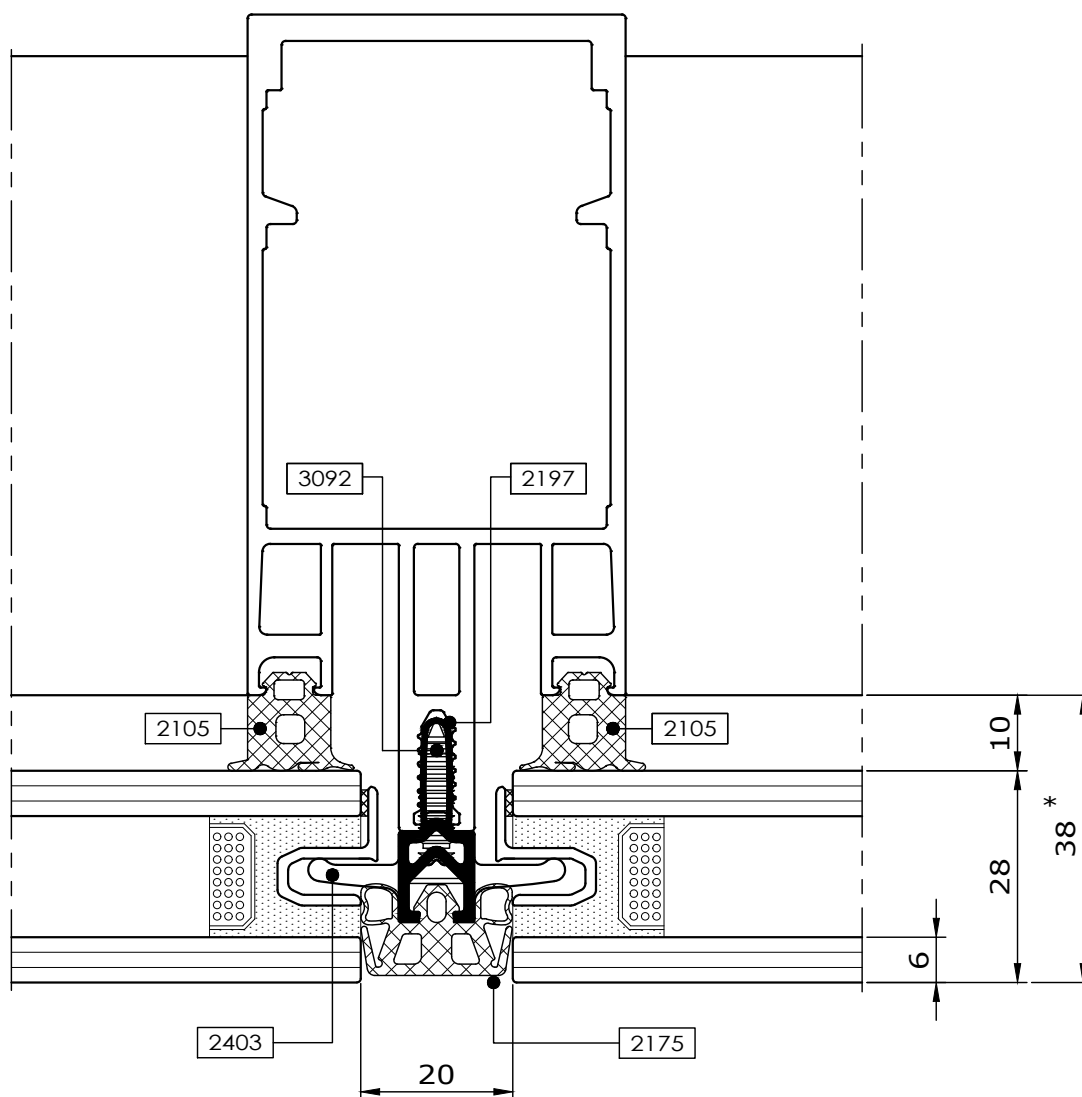
Comar 6EFT

Mullion detail  
EPDM gasket seal



2.57

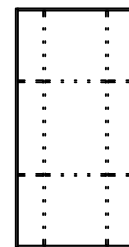
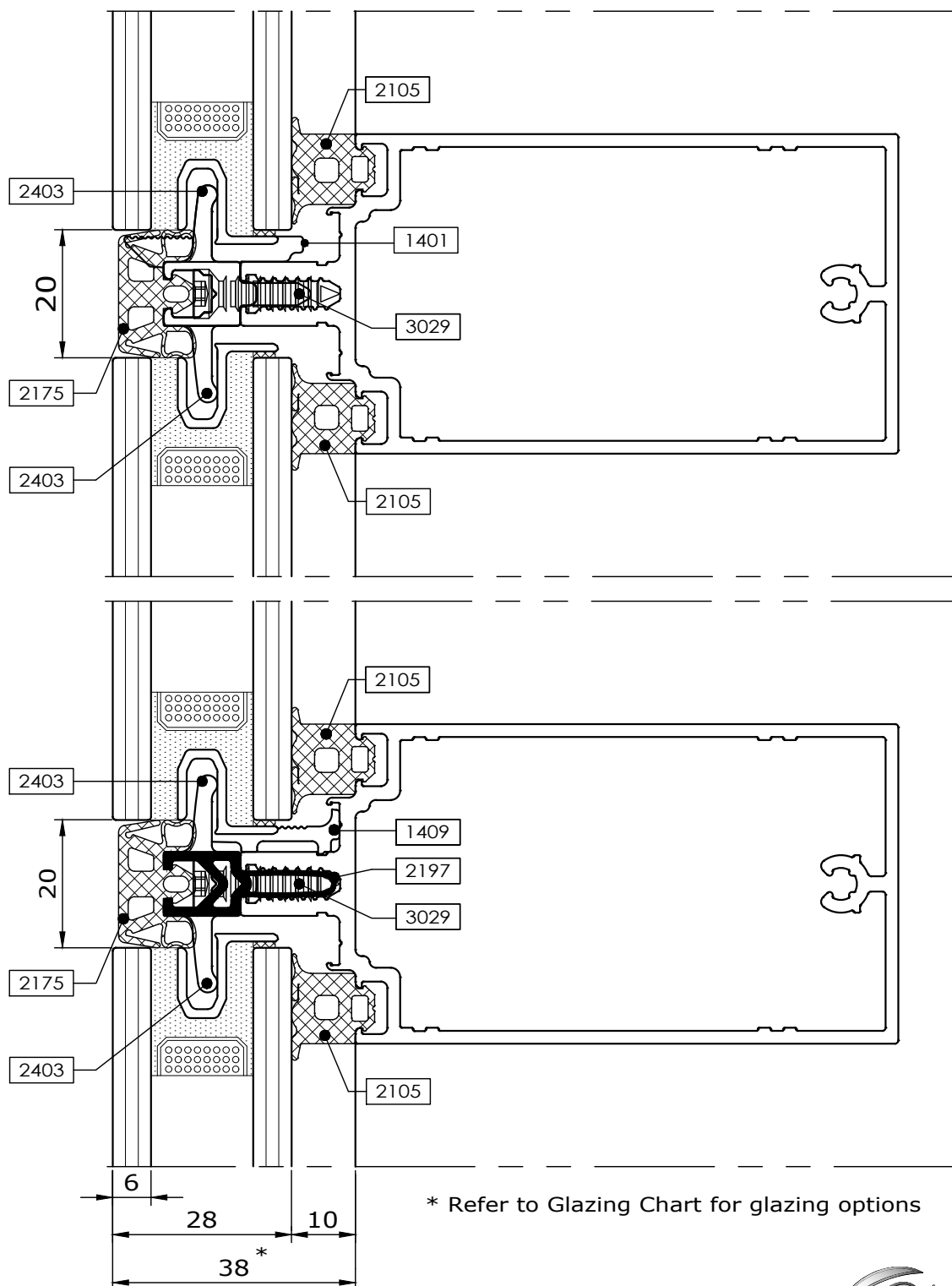
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\* Refer to Glazing Chart for glazing options

## Transom detail EPDM gasket seal

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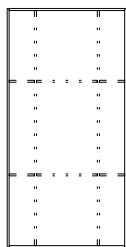
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## Typical details

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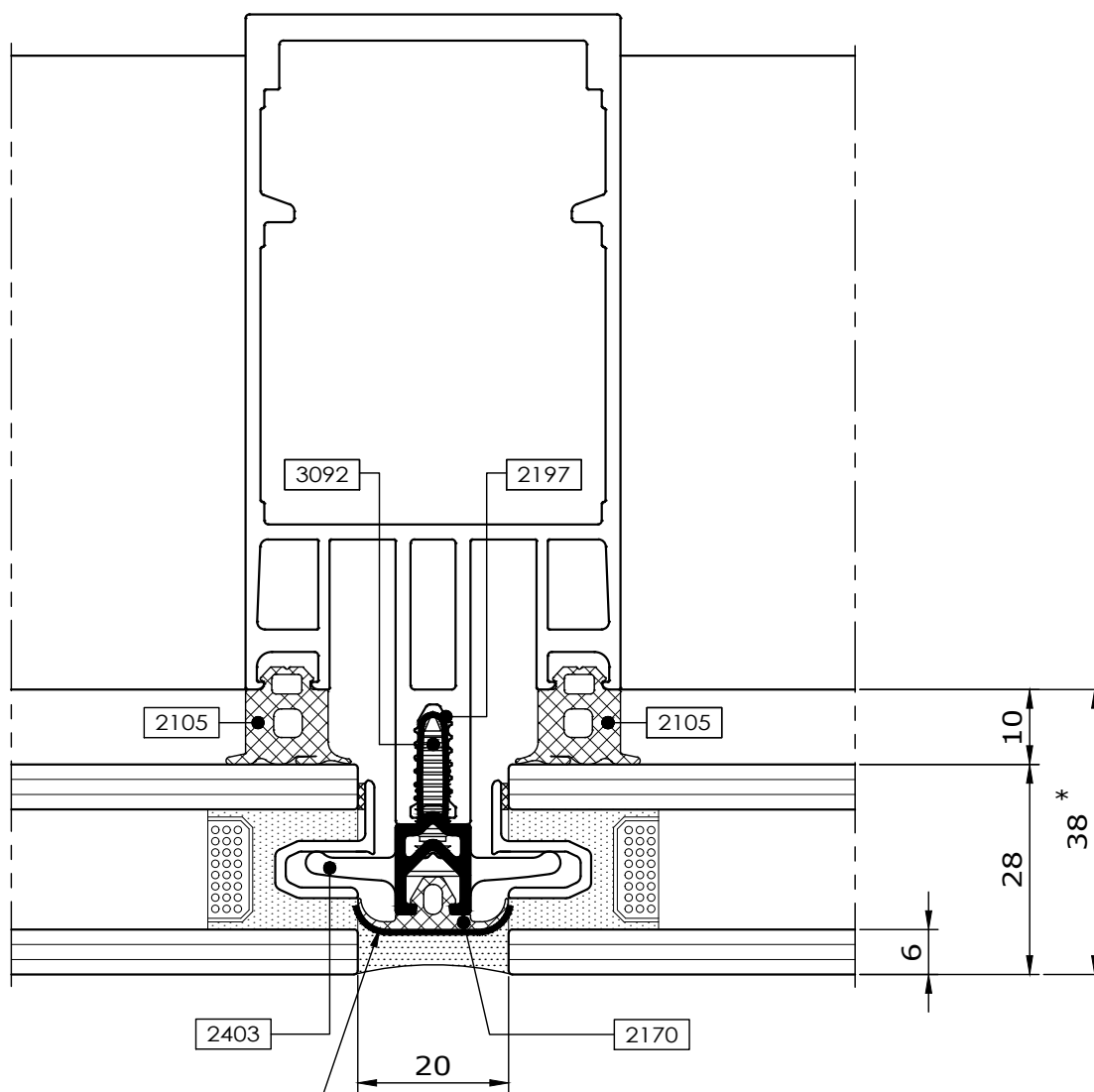
### Comar 6EFT

### Mullion detail Silicone seal



2.59

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Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal

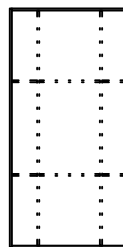
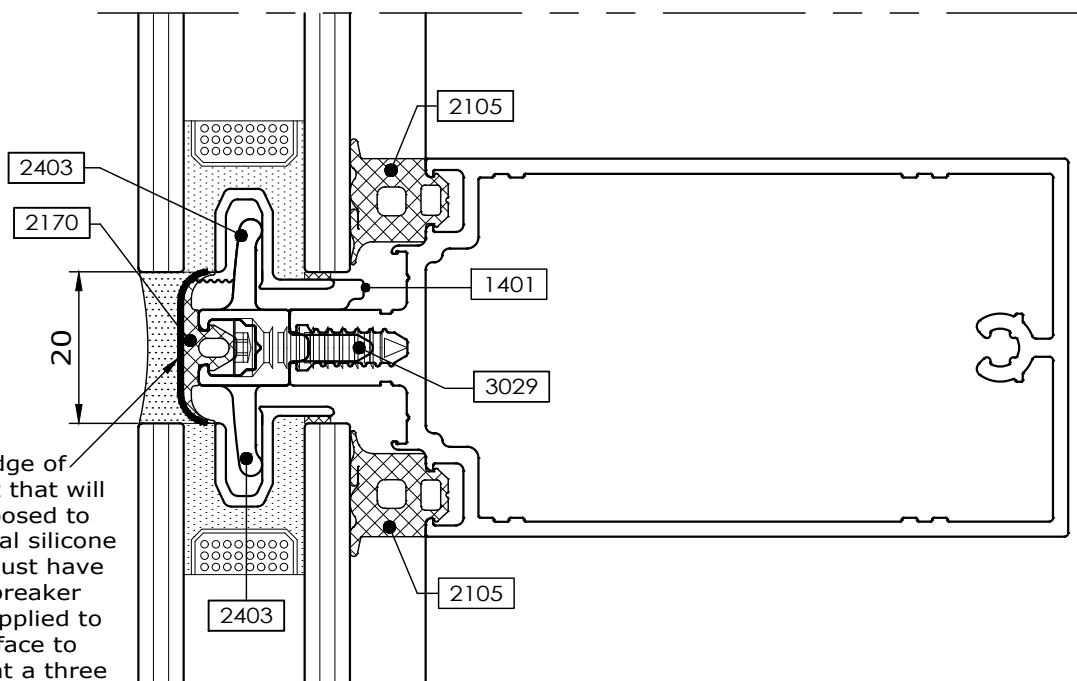
\* Refer to Glazing Chart for glazing options



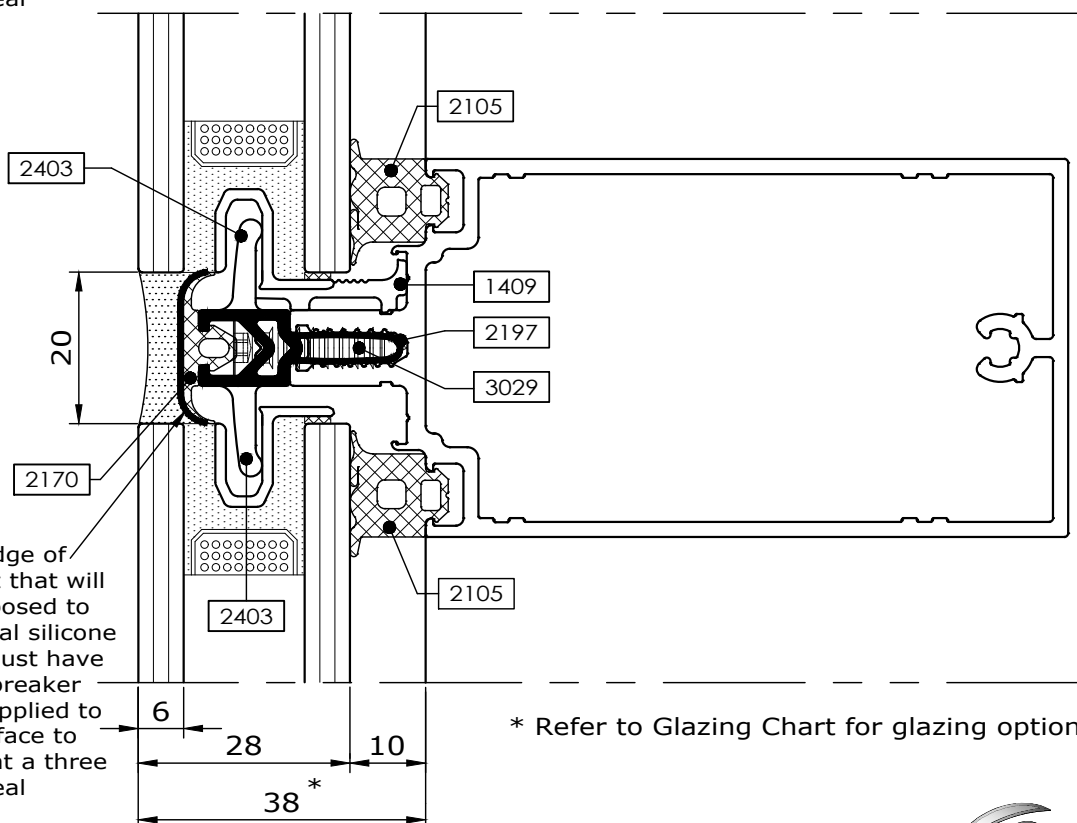
## Transom detail Silicone seal

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Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal



2.60



\* Refer to Glazing Chart for glazing options

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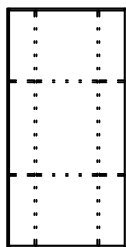
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# Typical details

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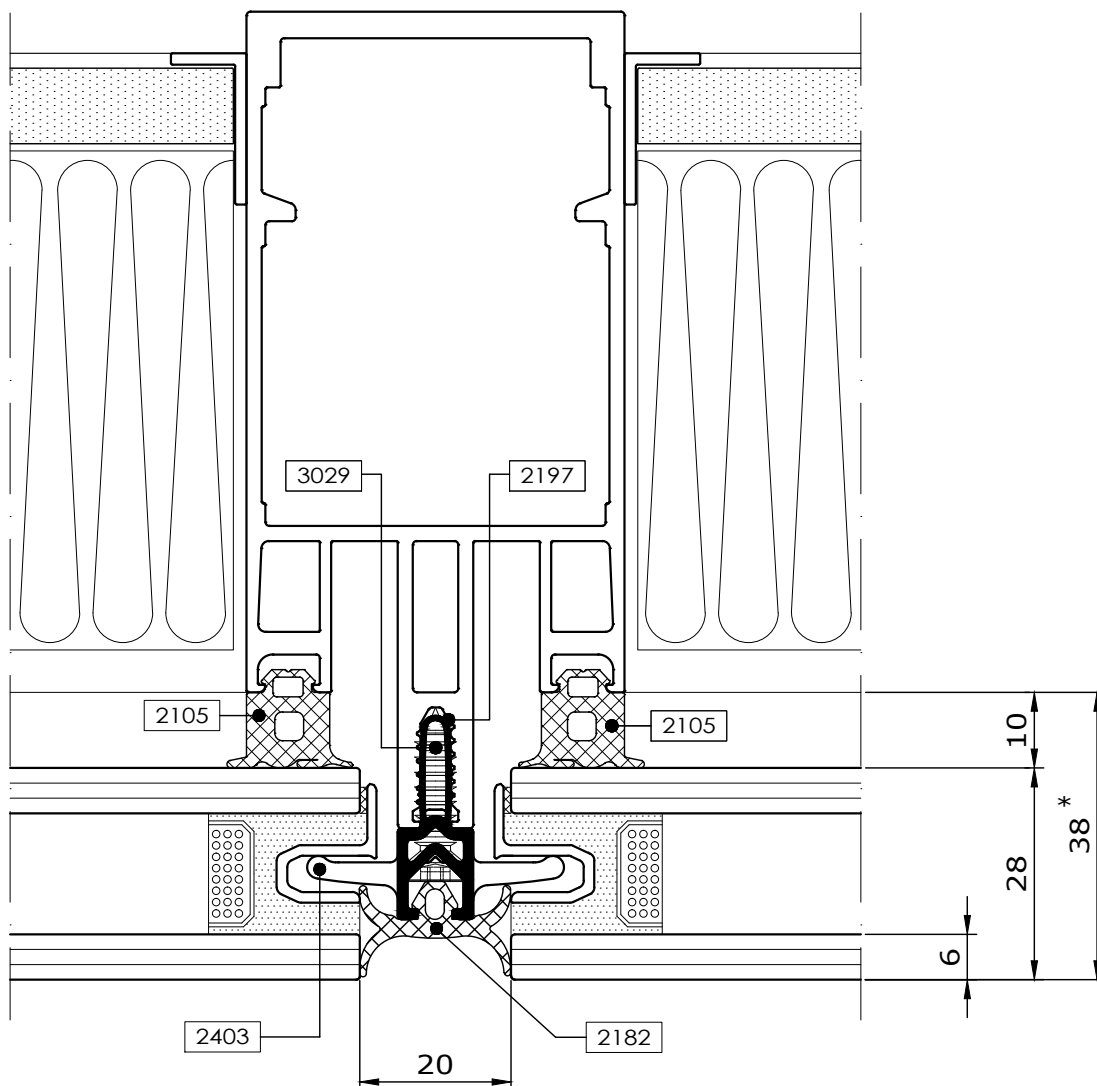
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Mullion detail  
EPDM gasket seal



2.61

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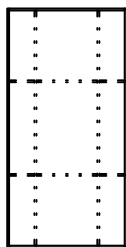
\* Refer to Glazing Chart for glazing options

# Typical details

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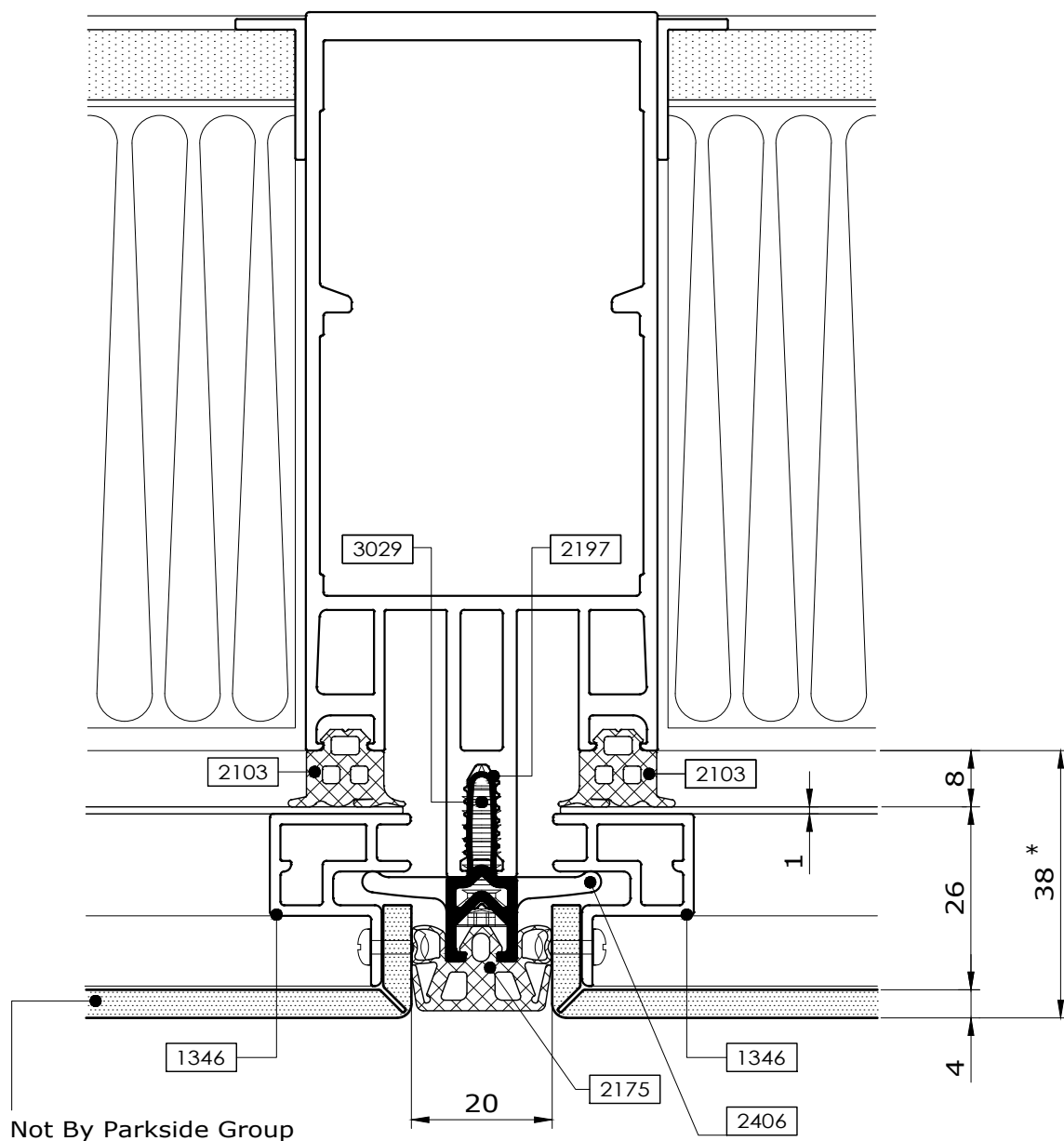
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Mullion detail  
Panel frame 1346



2.63

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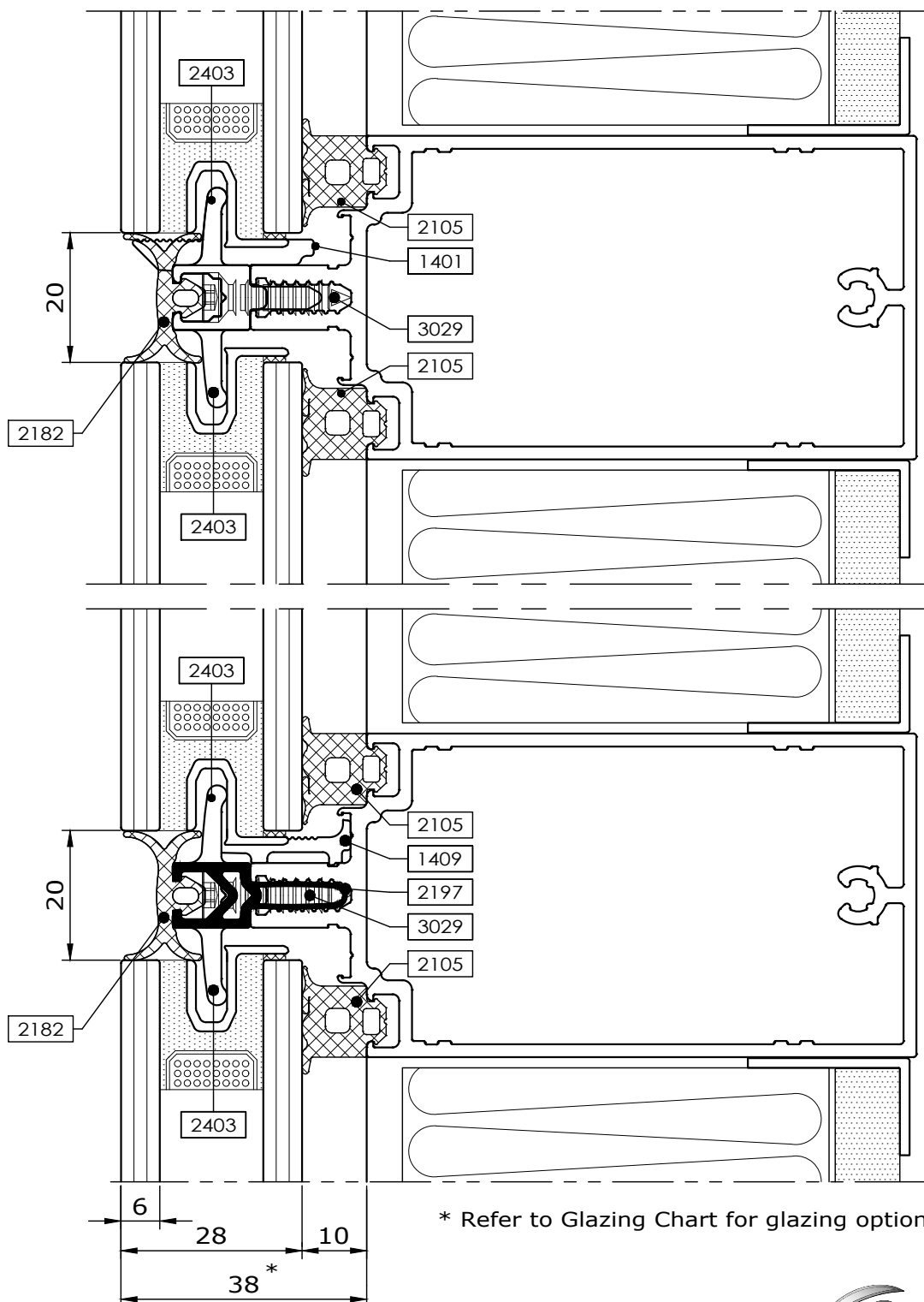
\* Refer to Glazing Chart for glazing options

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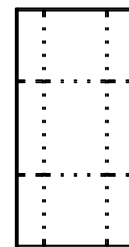
Typical details

## Transom detail

Comar 6EFT



\* Refer to Glazing Chart for glazing options



2.62

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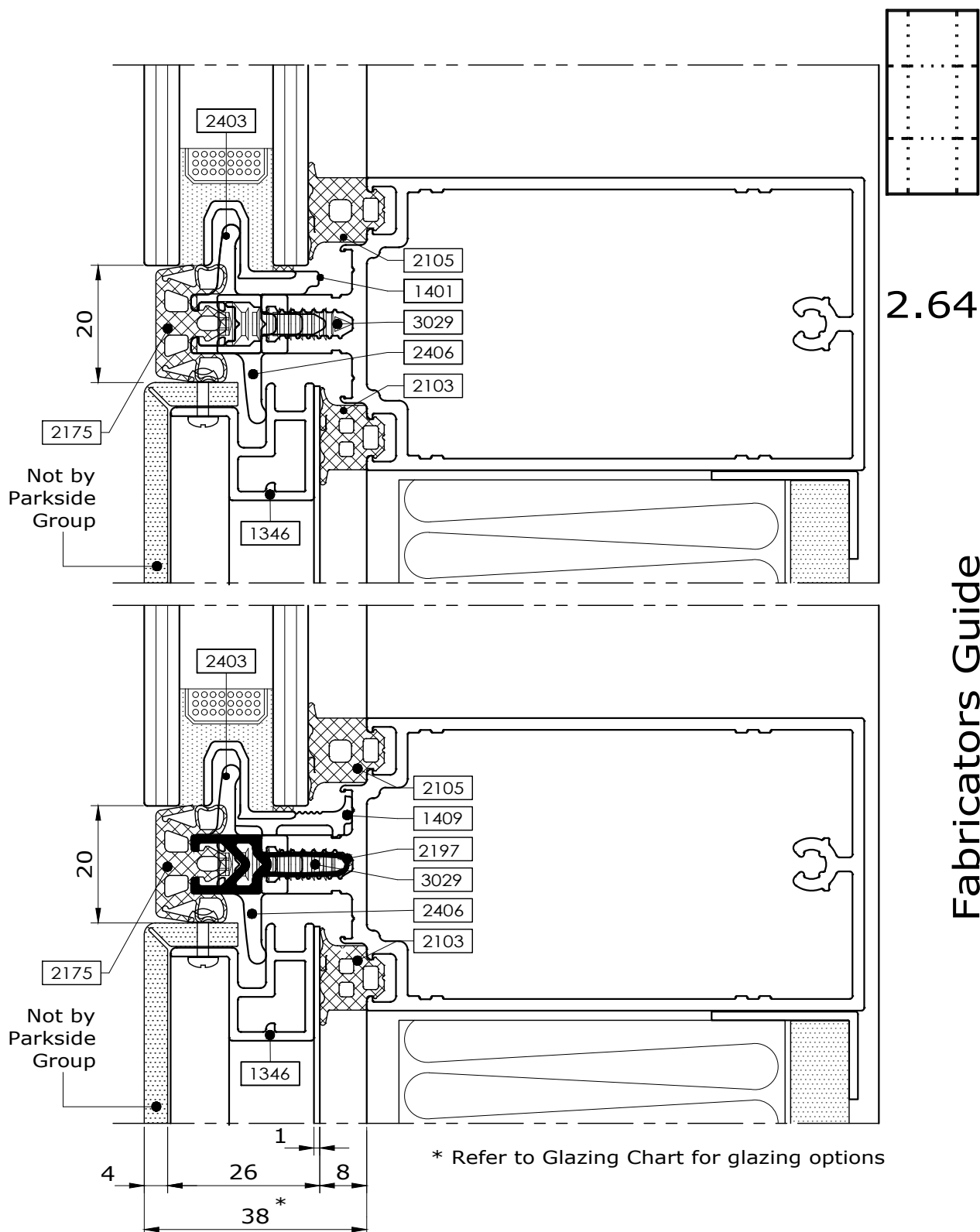
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## Transom detail 1346

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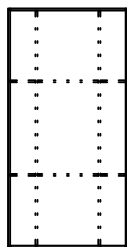
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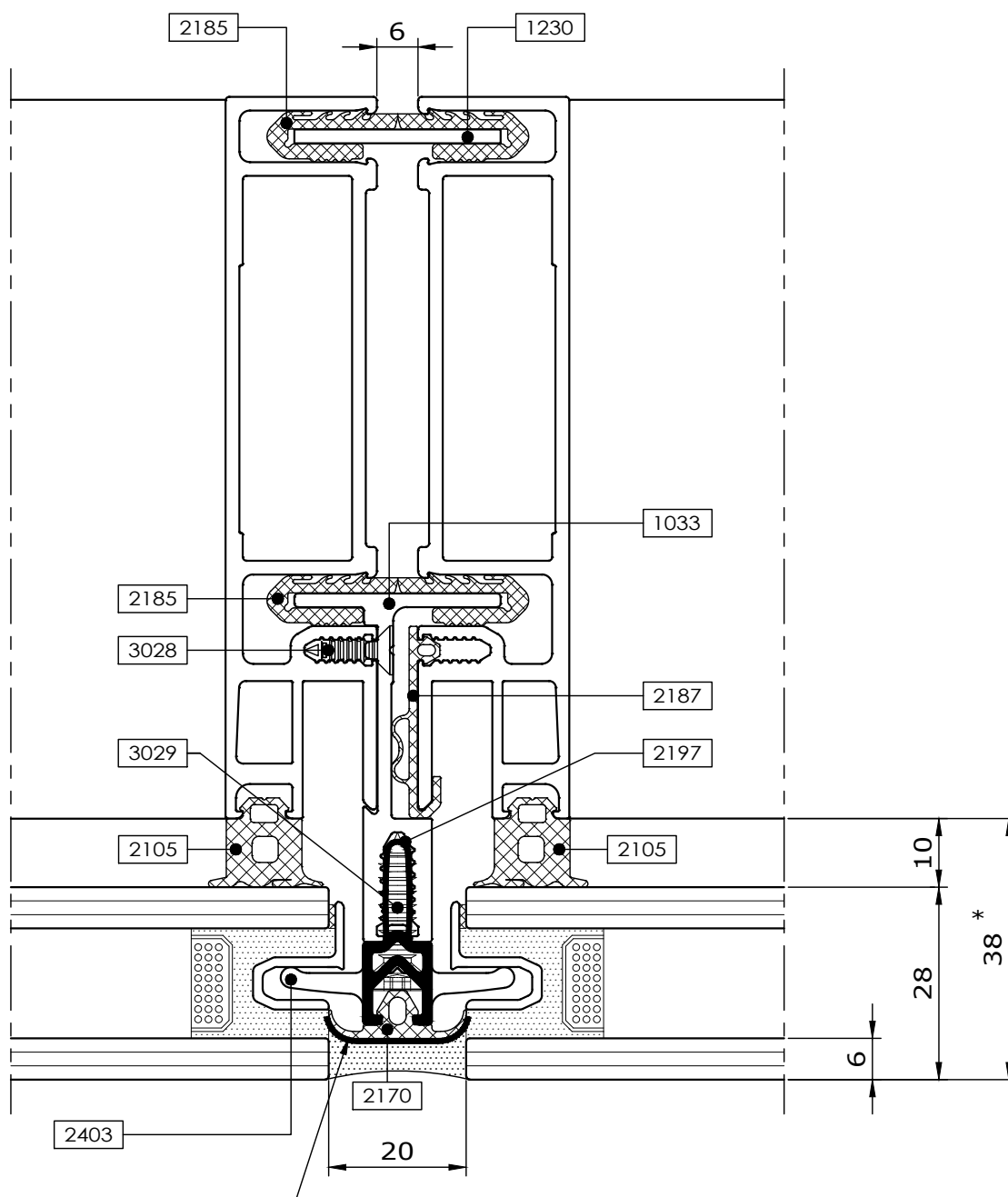
## Comar 6EFT

## Split mullion detail Silicone seal



2.65

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Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal

\* Refer to Glazing Chart for glazing options



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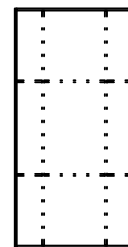
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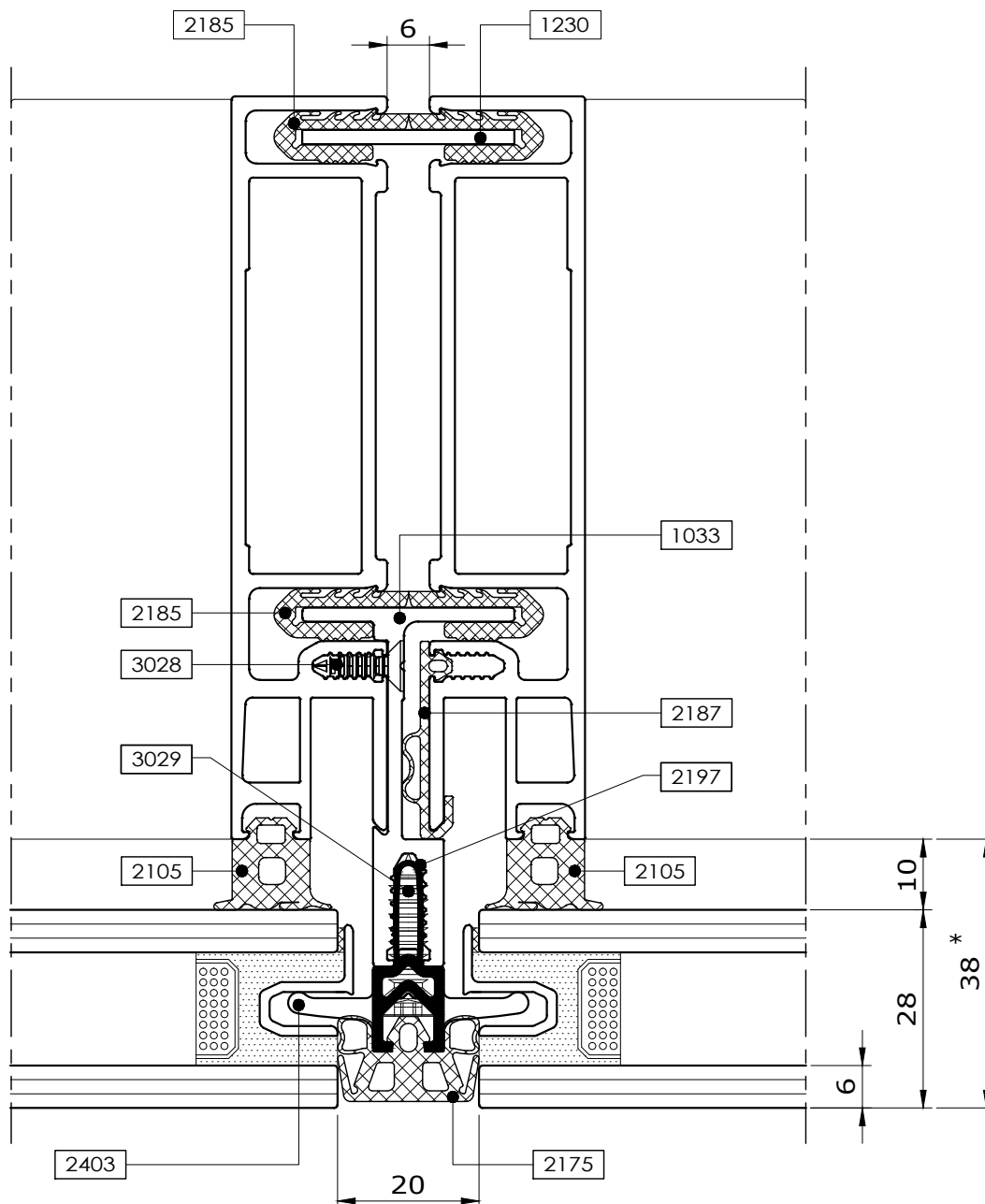
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## Split mullion details EPDM gasket seal



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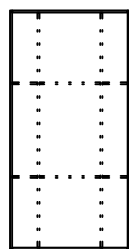
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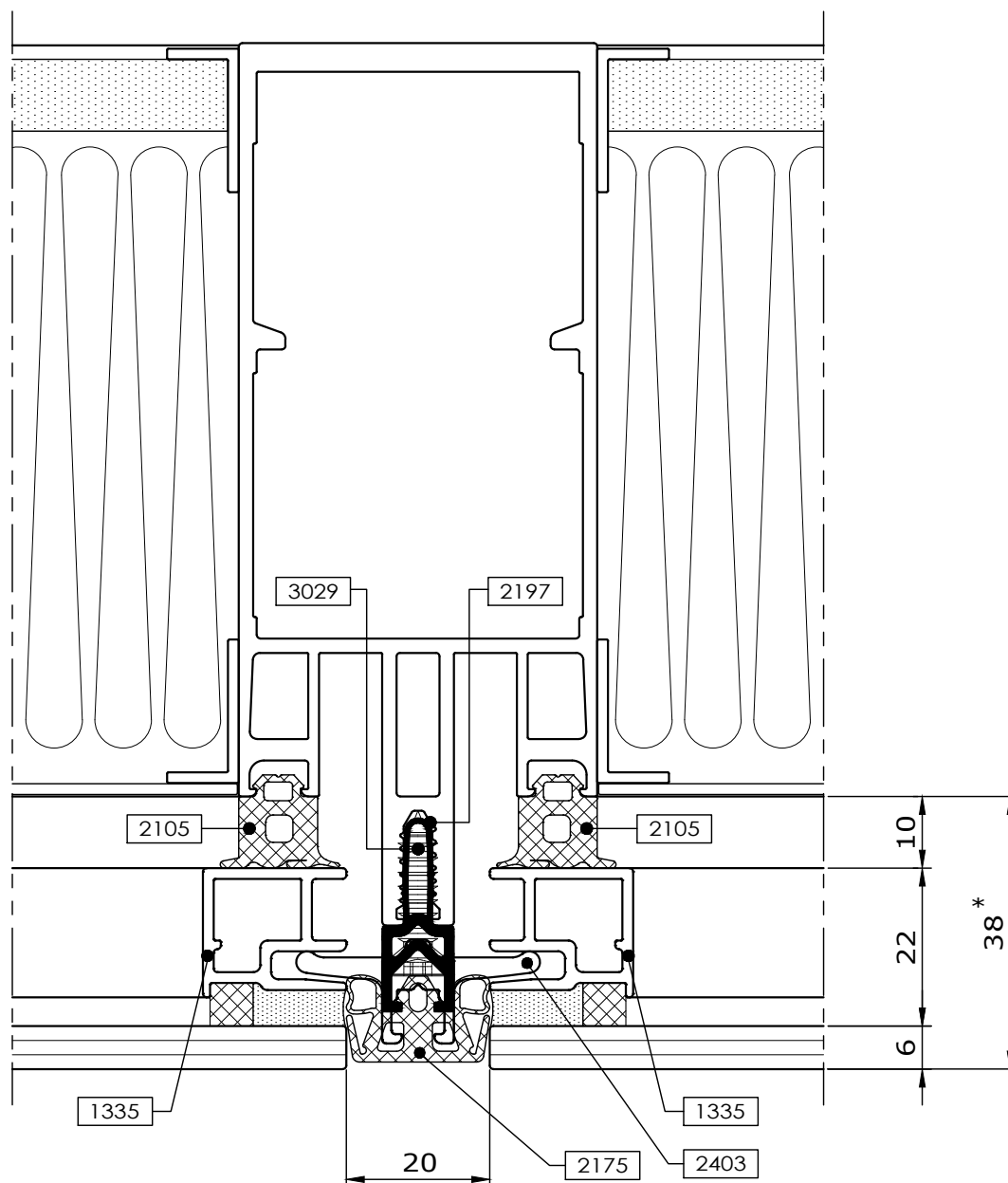
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Mullion detail  
Single Glazed  
EPDM Gasket seal



2.67

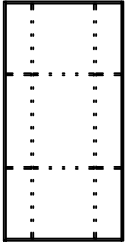
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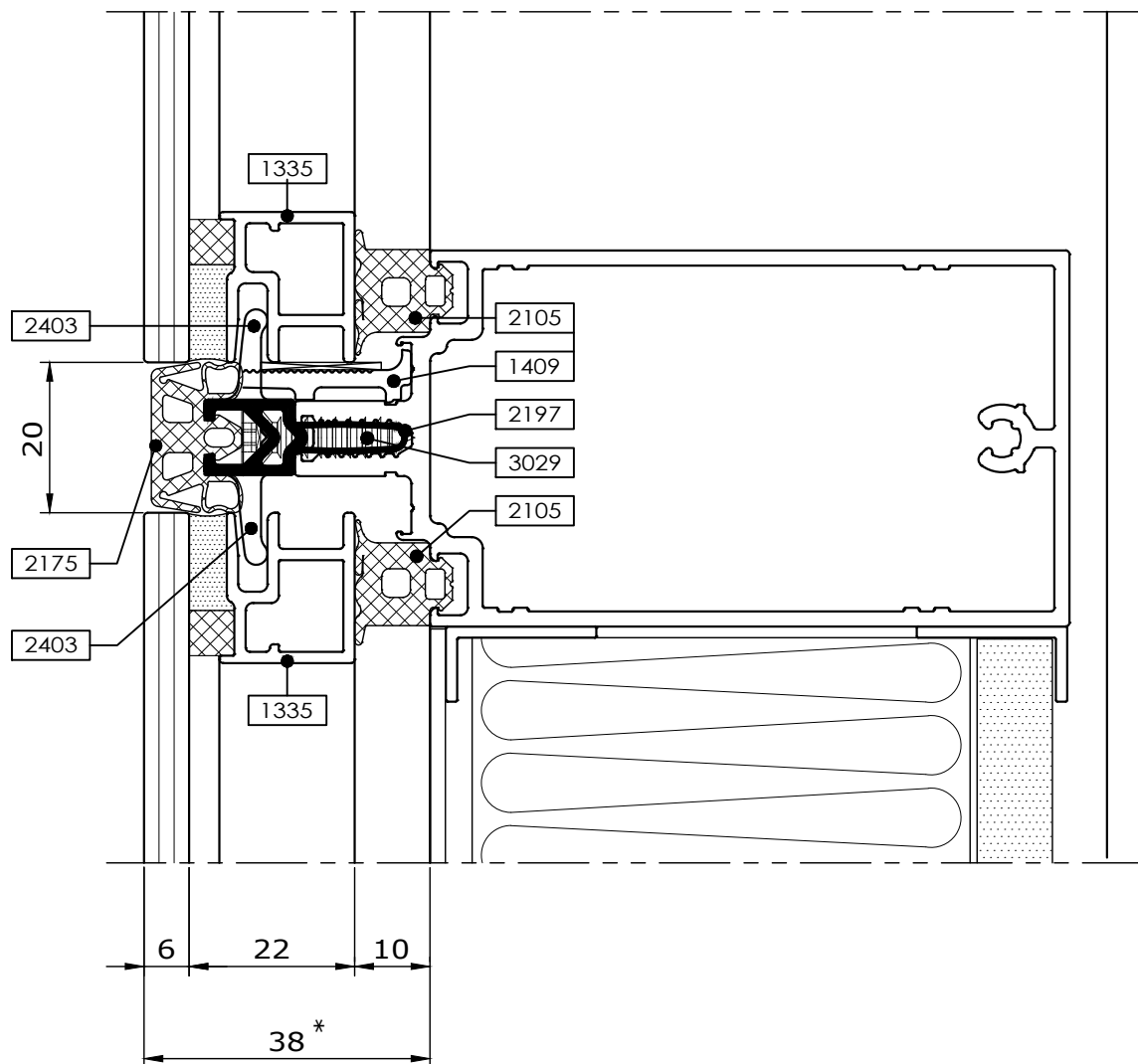
\* Refer to Glazing Chart for glazing options



Transom detail  
Single glazed  
EPDM gasket seal



2.68



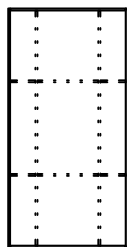
\* Refer to Glazing Chart for glazing options

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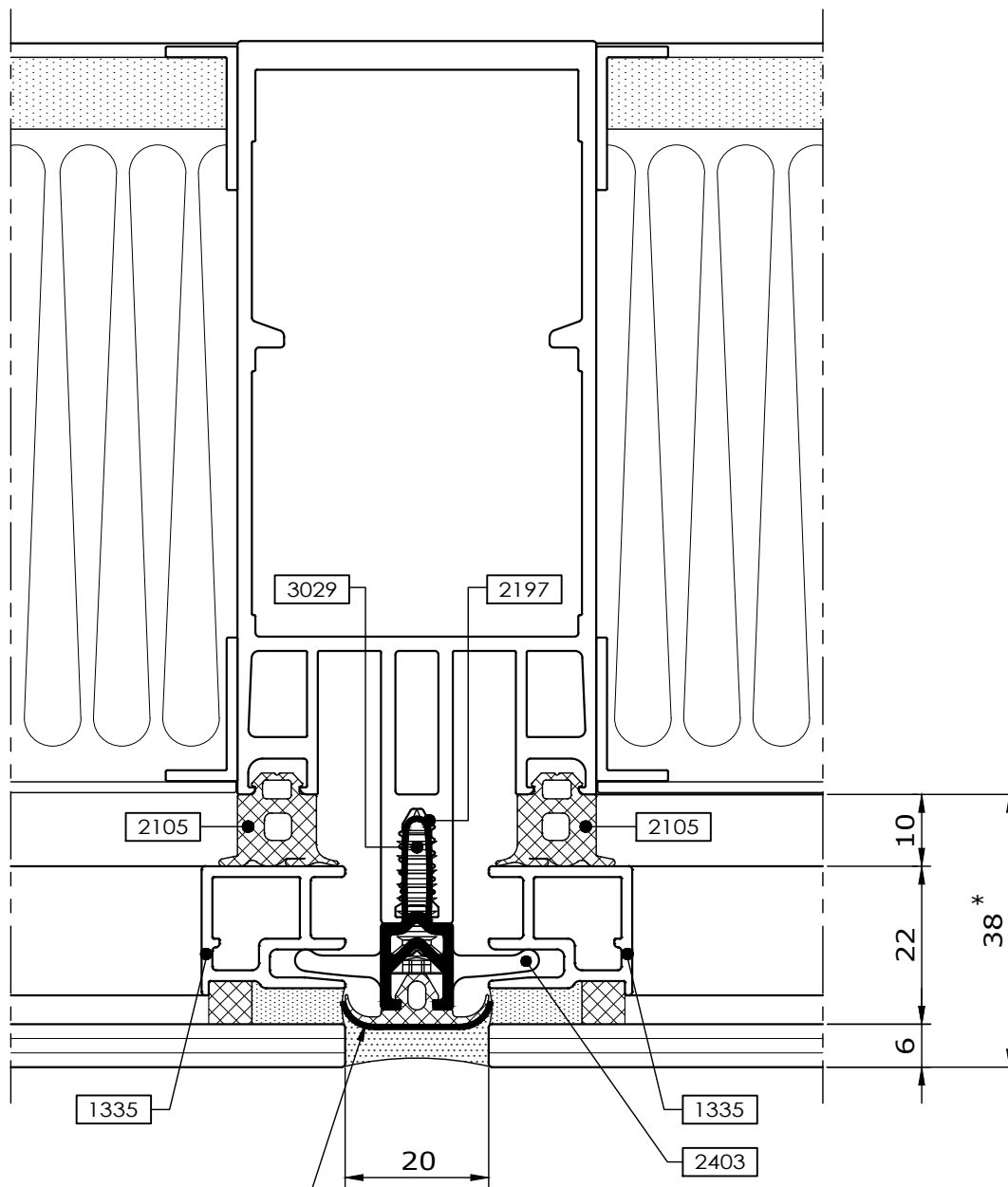
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Mullion detail  
Single glazed  
Silicone seal



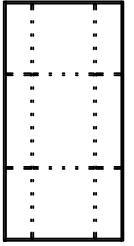
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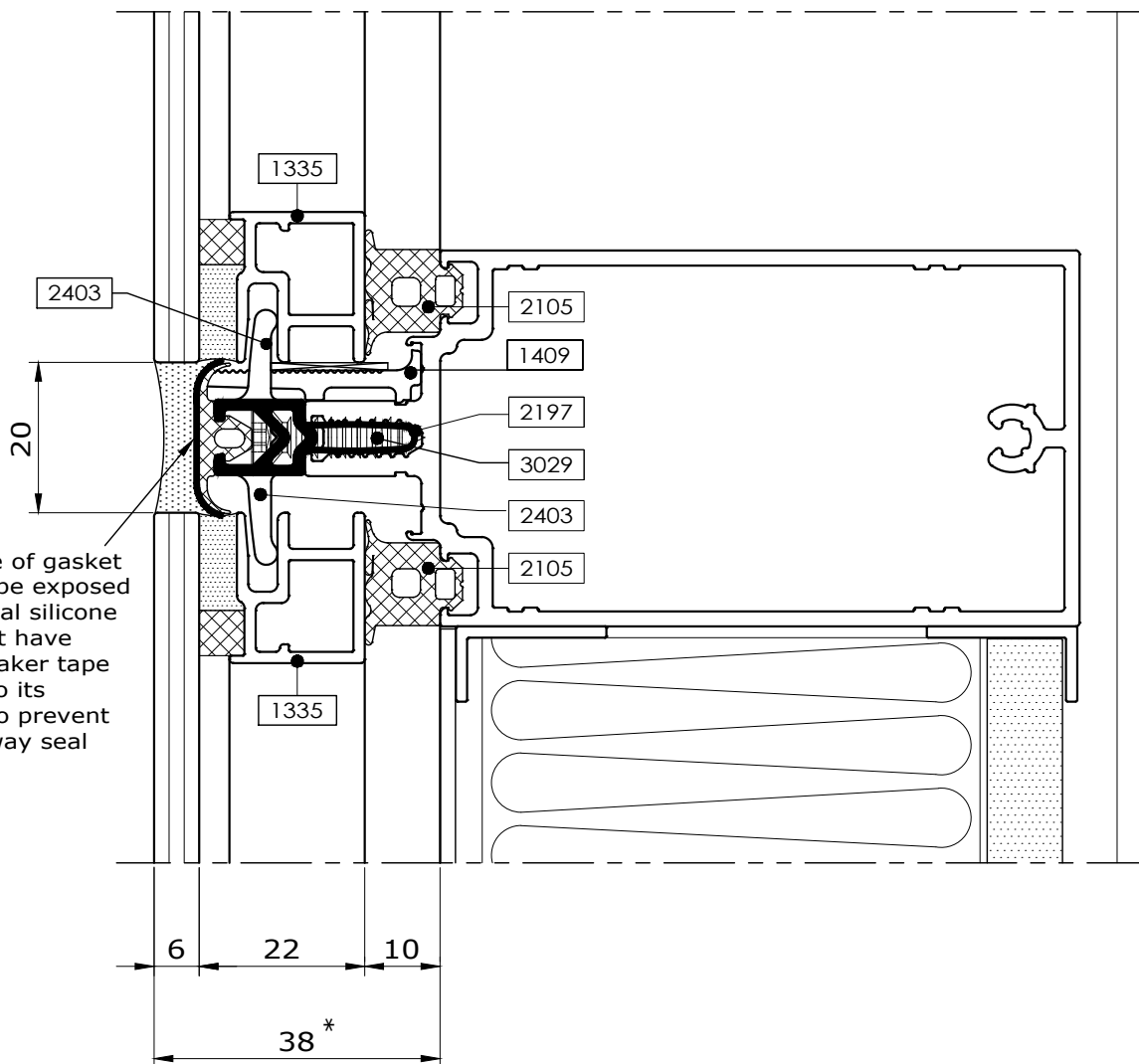
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Transom detail  
Single glazed  
Silicone seal



2.70

Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal



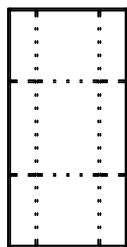
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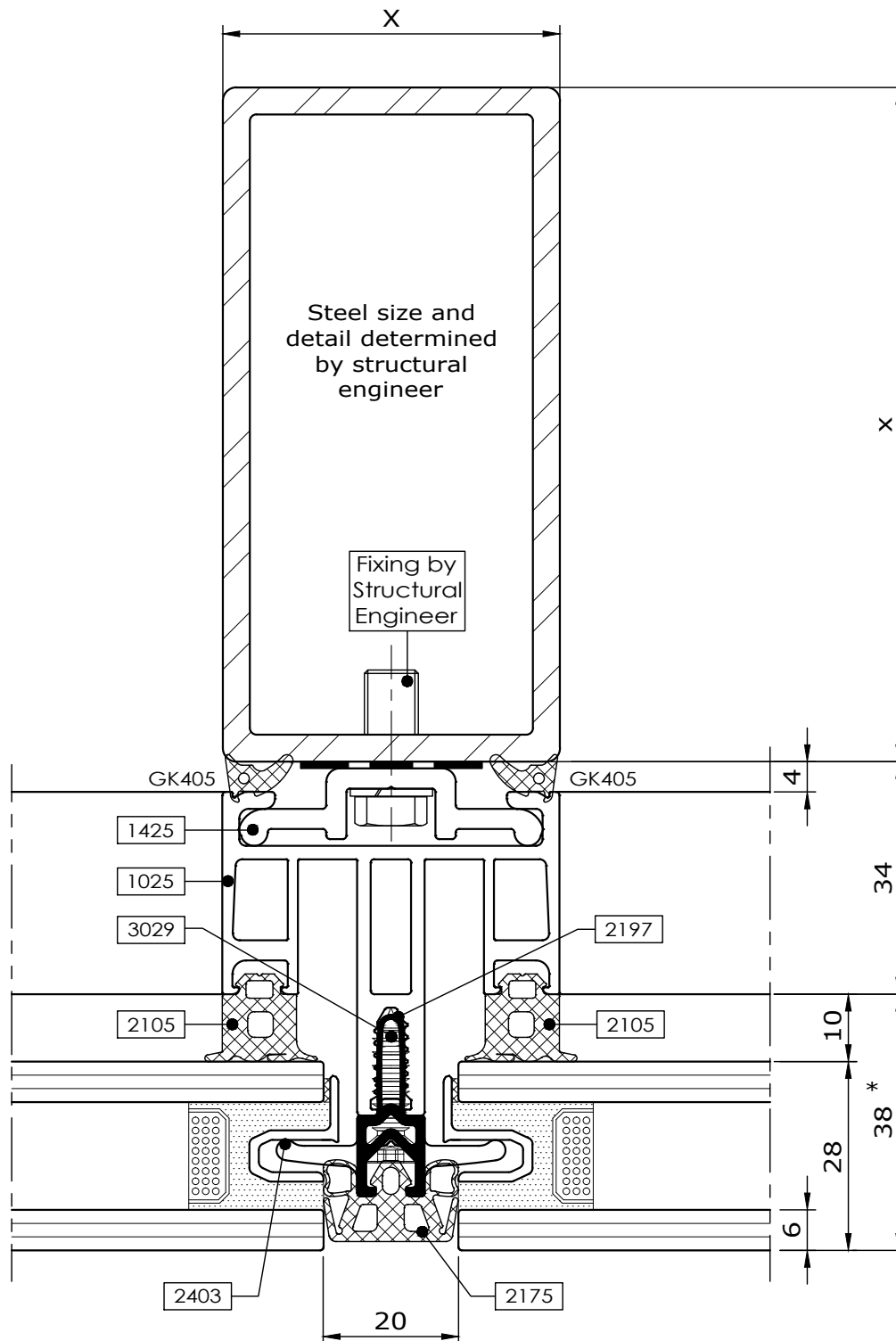
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Mullion details  
Direct fix to steel  
EPDM Gasket seal



2.71

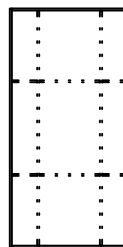
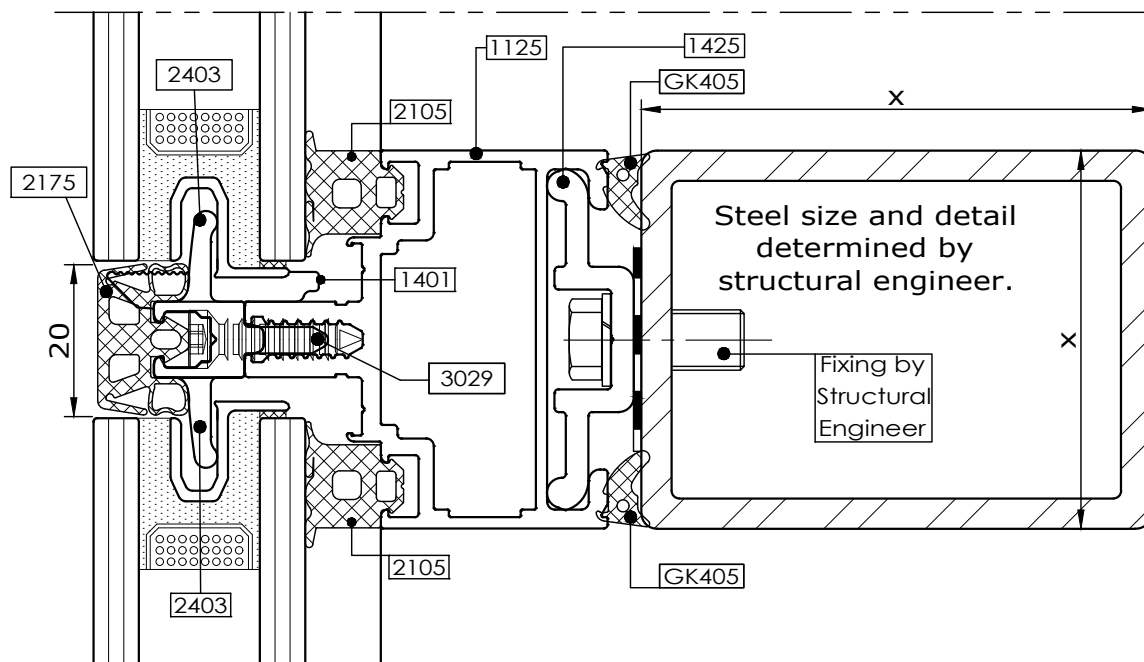
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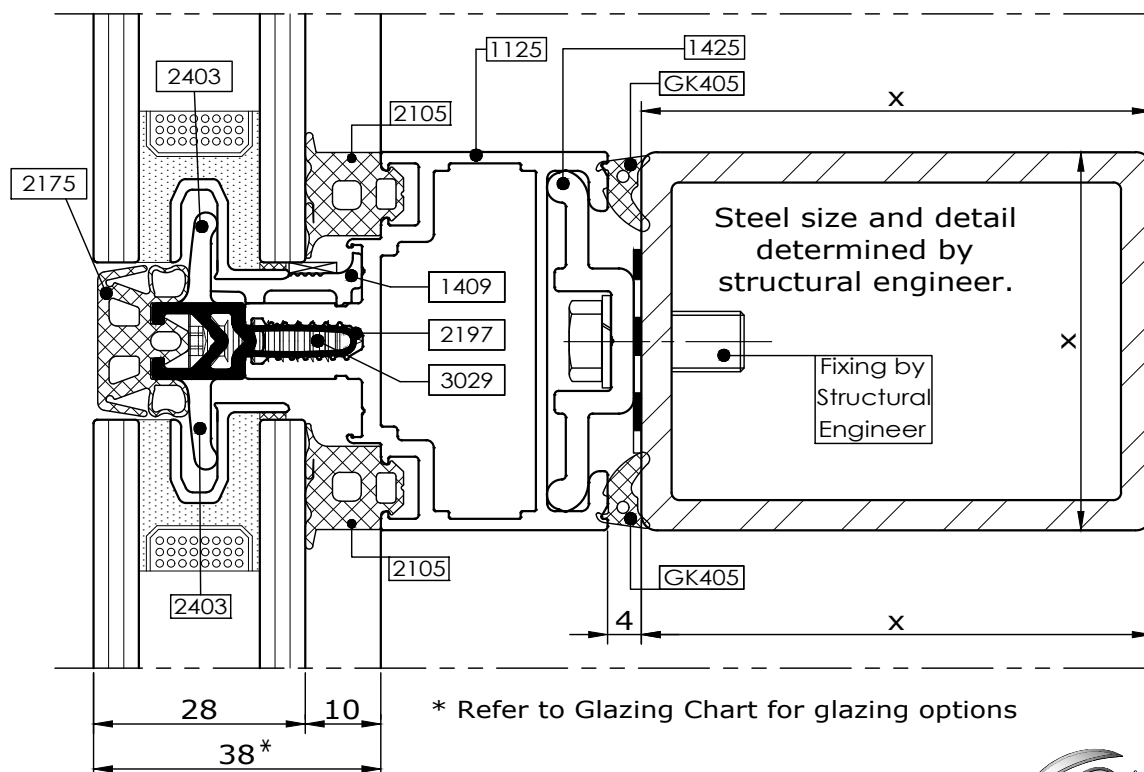
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# Transom detail Direct fix to steel EPDM gasket seal

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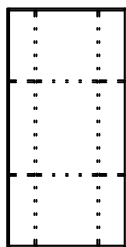
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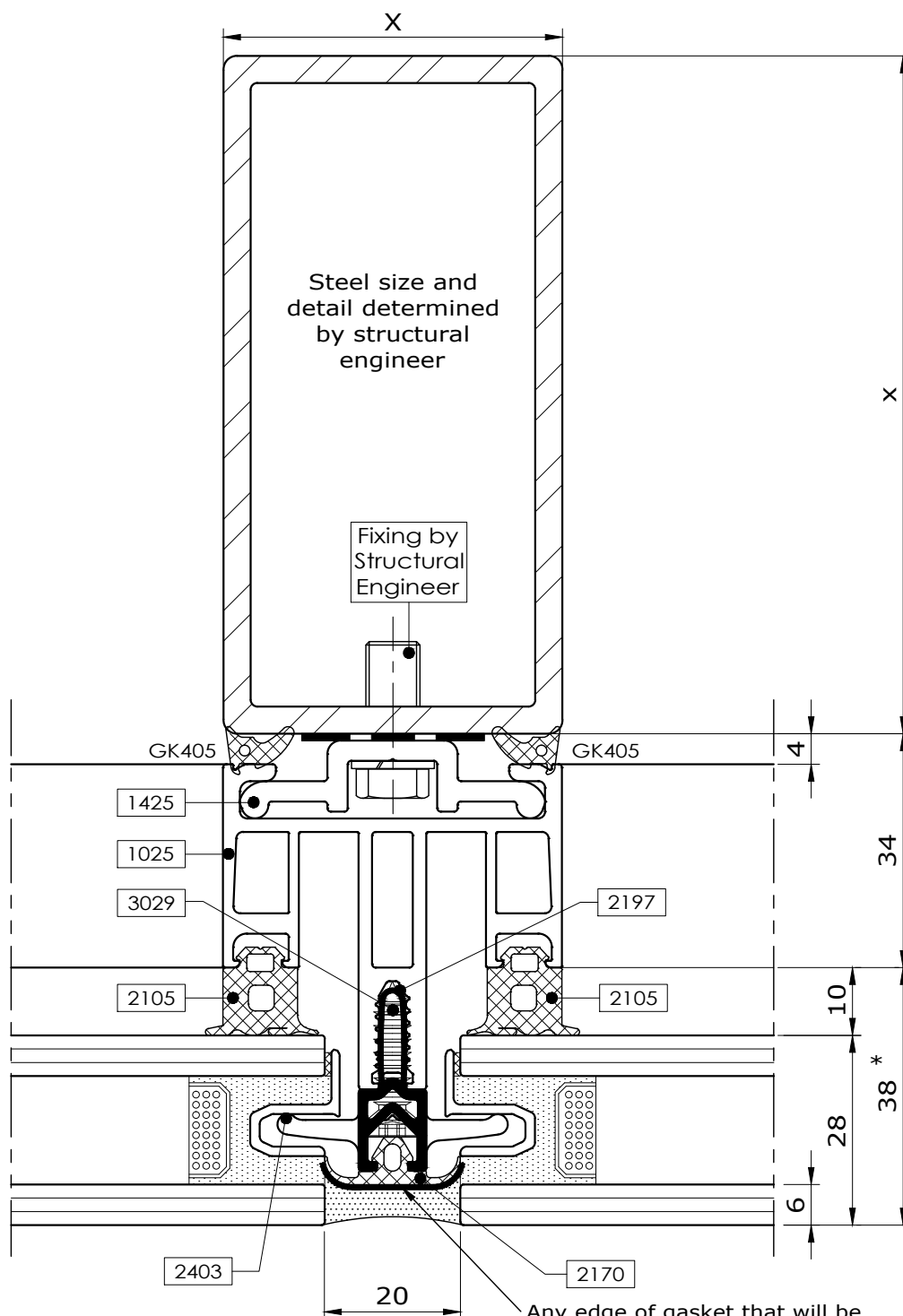
## Comar 6EFT

Mullion detail  
Direct fix to steel  
Silicone seal



2.73

## Fabricators Guide



\* Refer to Glazing Chart for glazing options

Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal



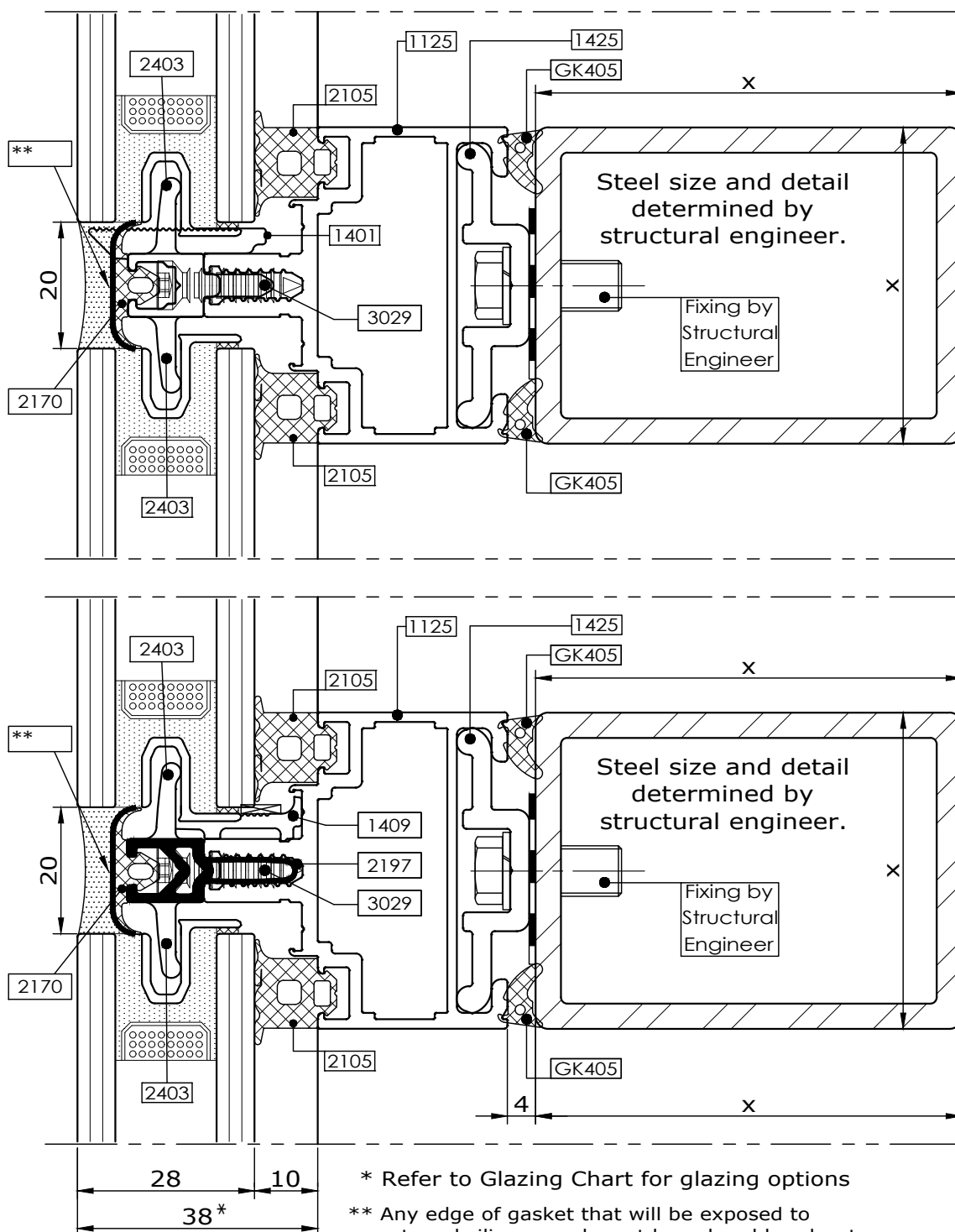
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## Transom detail Direct fix to steel Silicone seal

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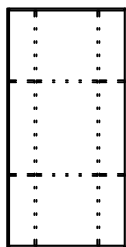


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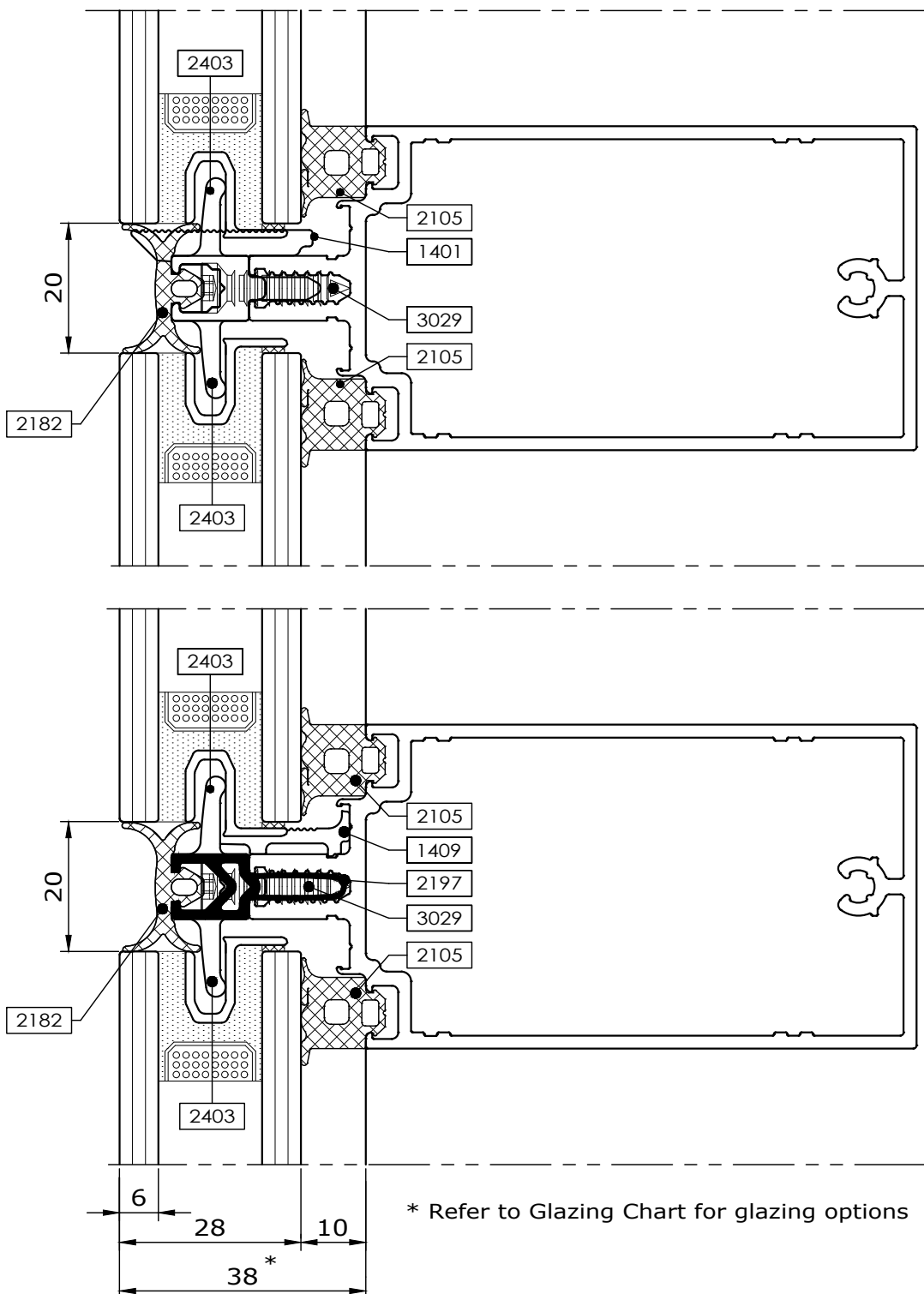
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Transom detail.  
Gasket seal



2.75

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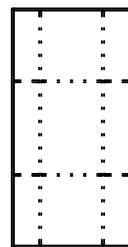
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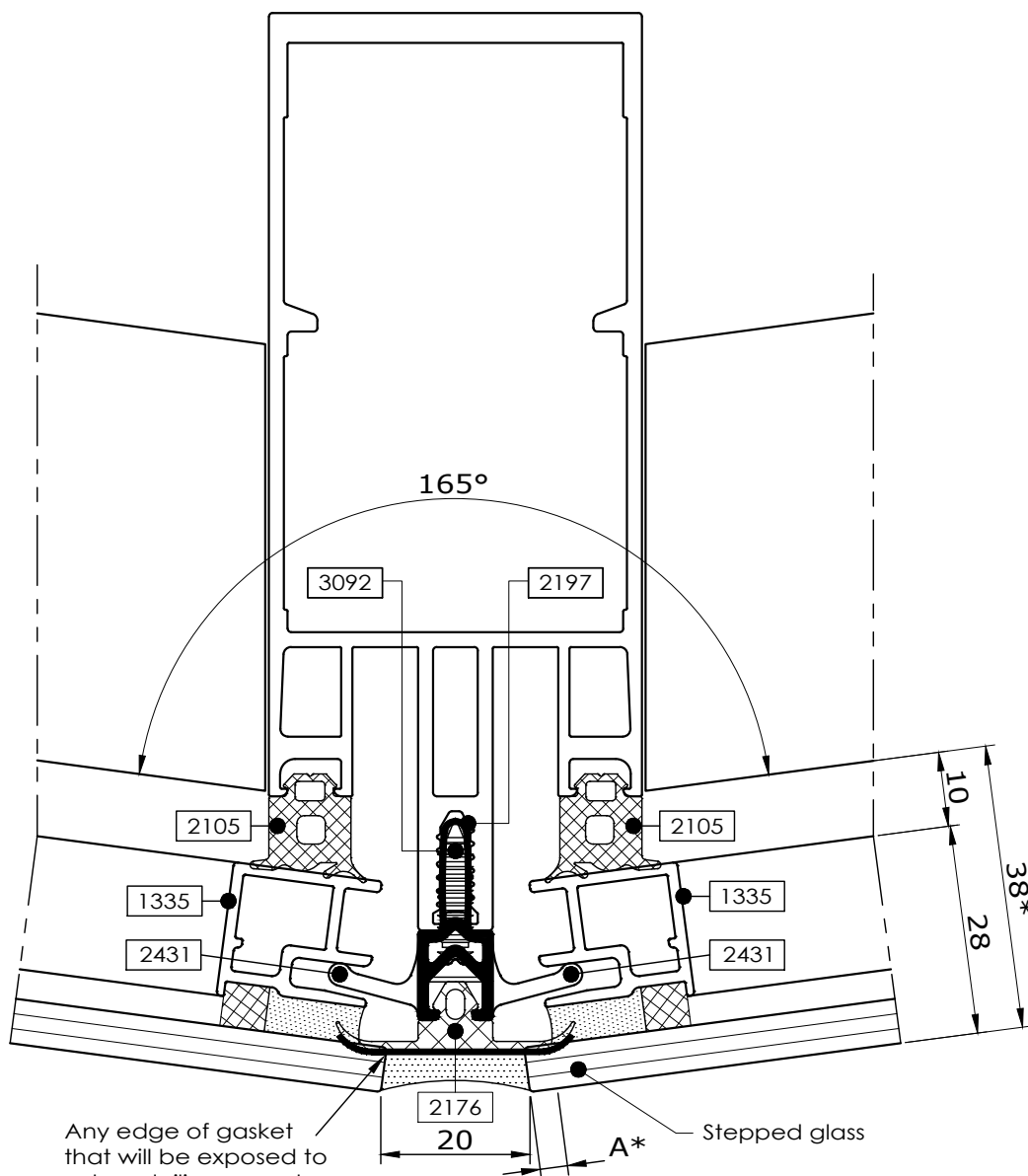


Mullion detail  
Facetted facade - Single glazed  
7.5° maximum

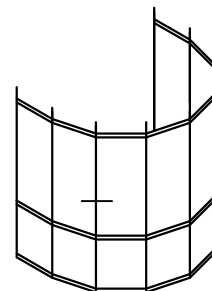
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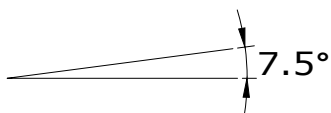
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\* Refer to Glazing Chart for glazing options



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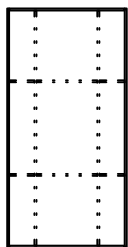
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## Typical details

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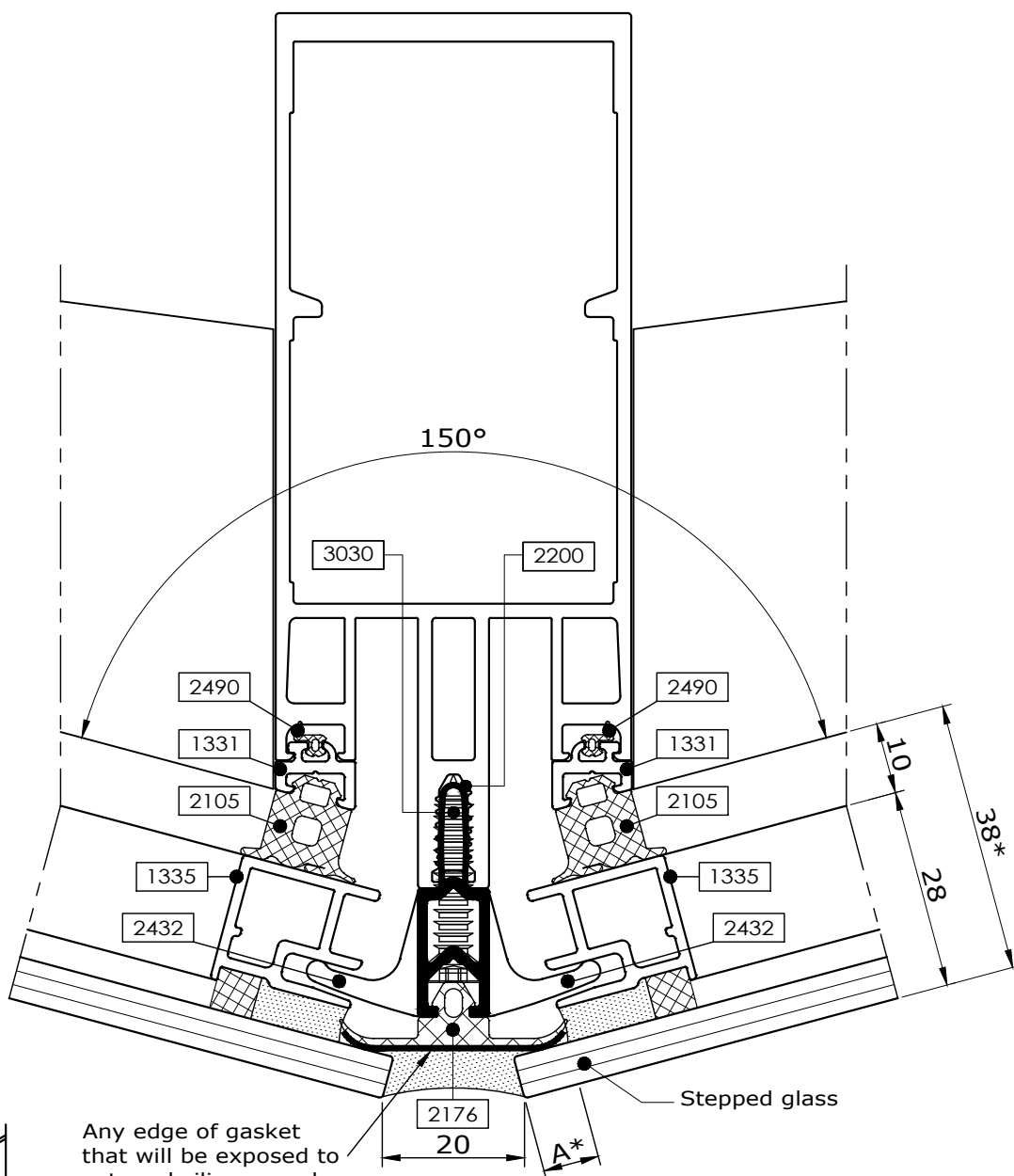
### Comar 6EFT

Mullion detail, Facetted facade - Single glazed  
15° nominal

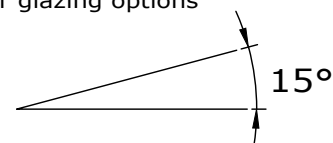


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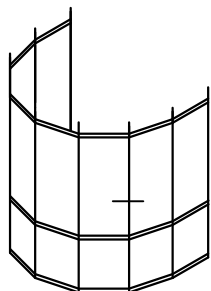
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\* Refer to Glazing Chart for glazing options



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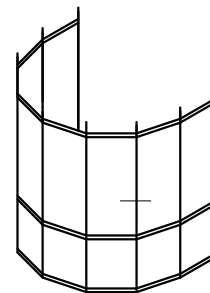
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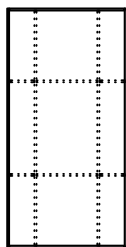


# Typical details

2

## Comar 6EFT

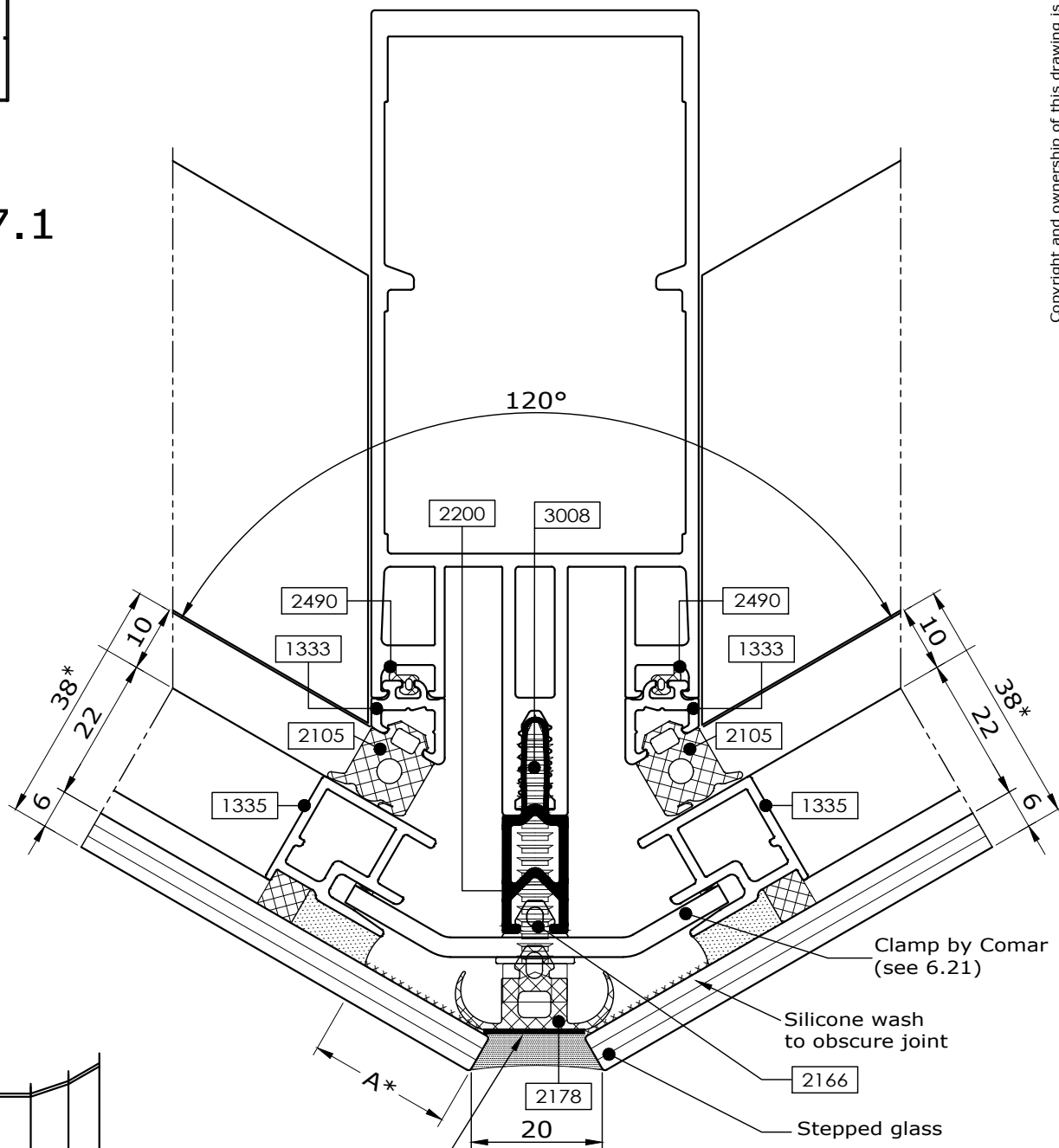
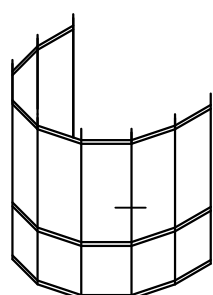
## Mullion detail Facetted facade 30° nominal



2.77.1

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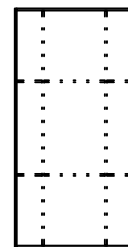


Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal

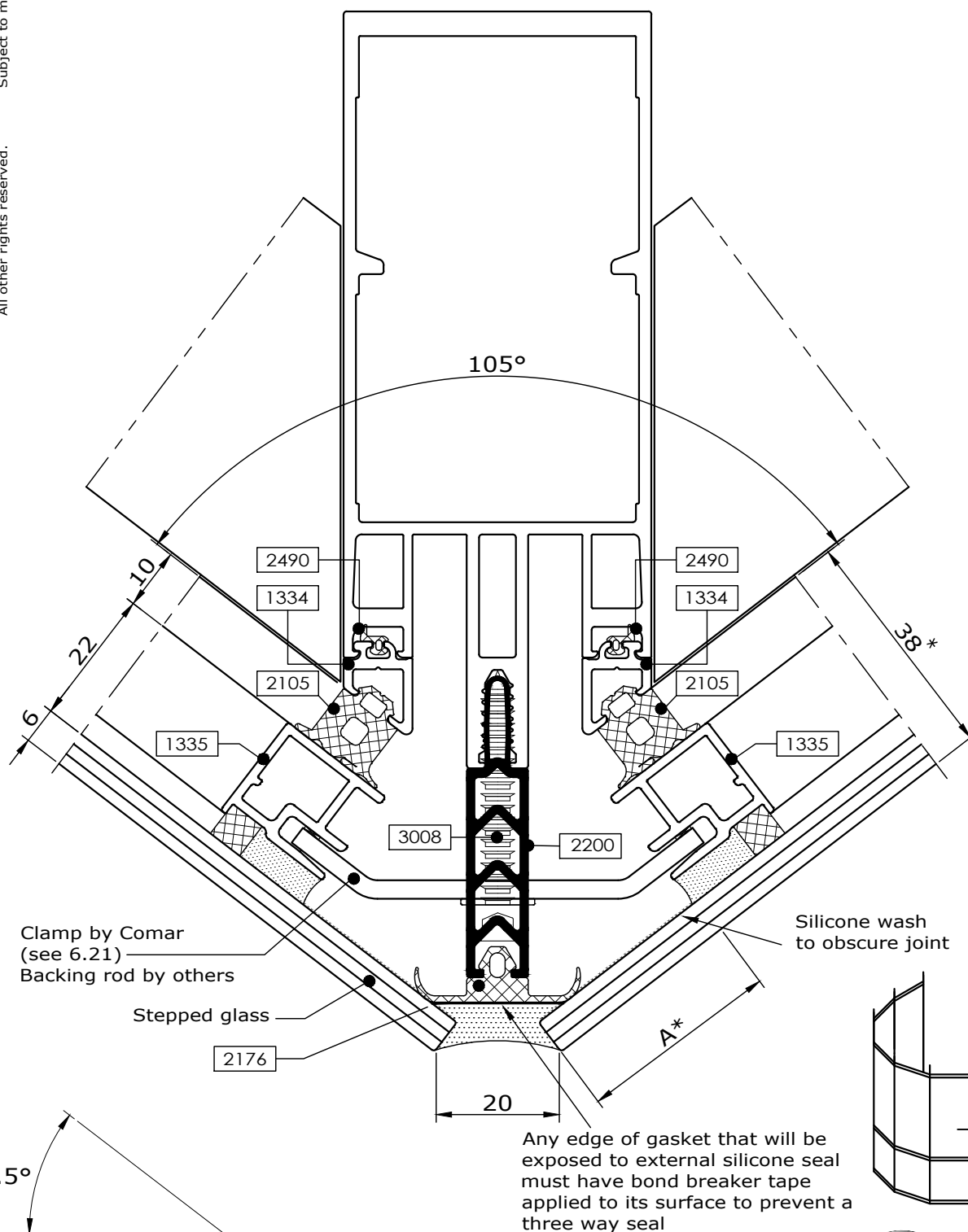
\* Refer to Glazing Chart for glazing options

Changes reserved  
Sous reserve de modifications  
Änderungen vorbehalten

# Mullion detail Facetted facade 37.5° nominal



2.78



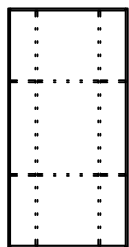
\* Refer to Glazing Chart for glazing options

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Sous reserve de modifications  
Änderungen vorbehalten

Issue: 05  
Date : 10 -16

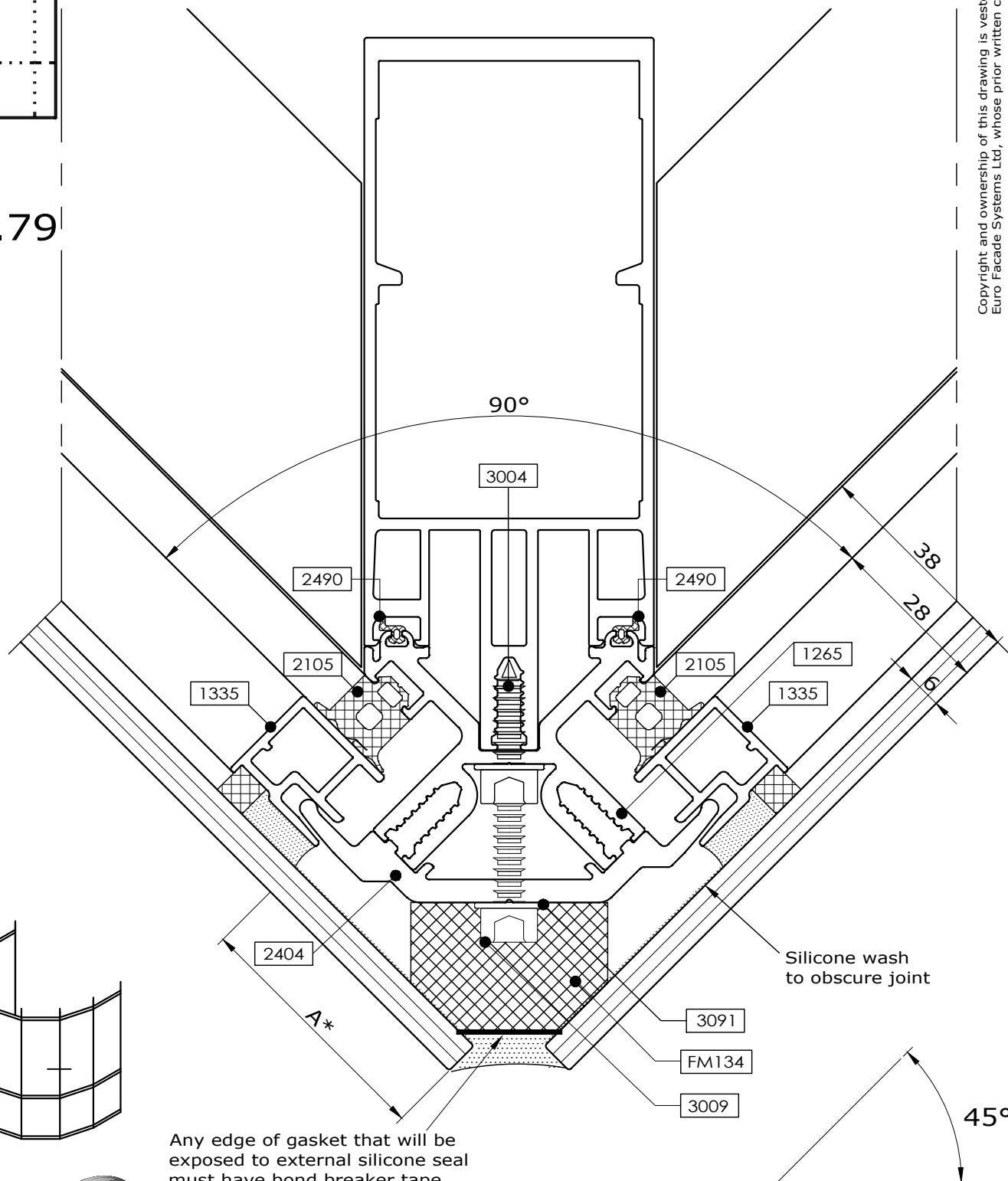
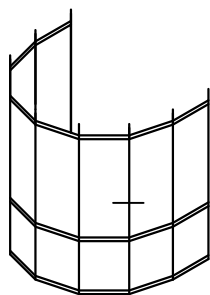
## Comar 6EFT

## Mullion detail, Facetted facade - Single glazed 45° nominal



2.79

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\* Refer to Glazing Chart for glazing options

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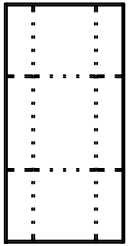
Issue: 05  
Date : 10 -16

2

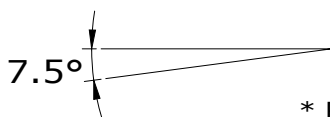
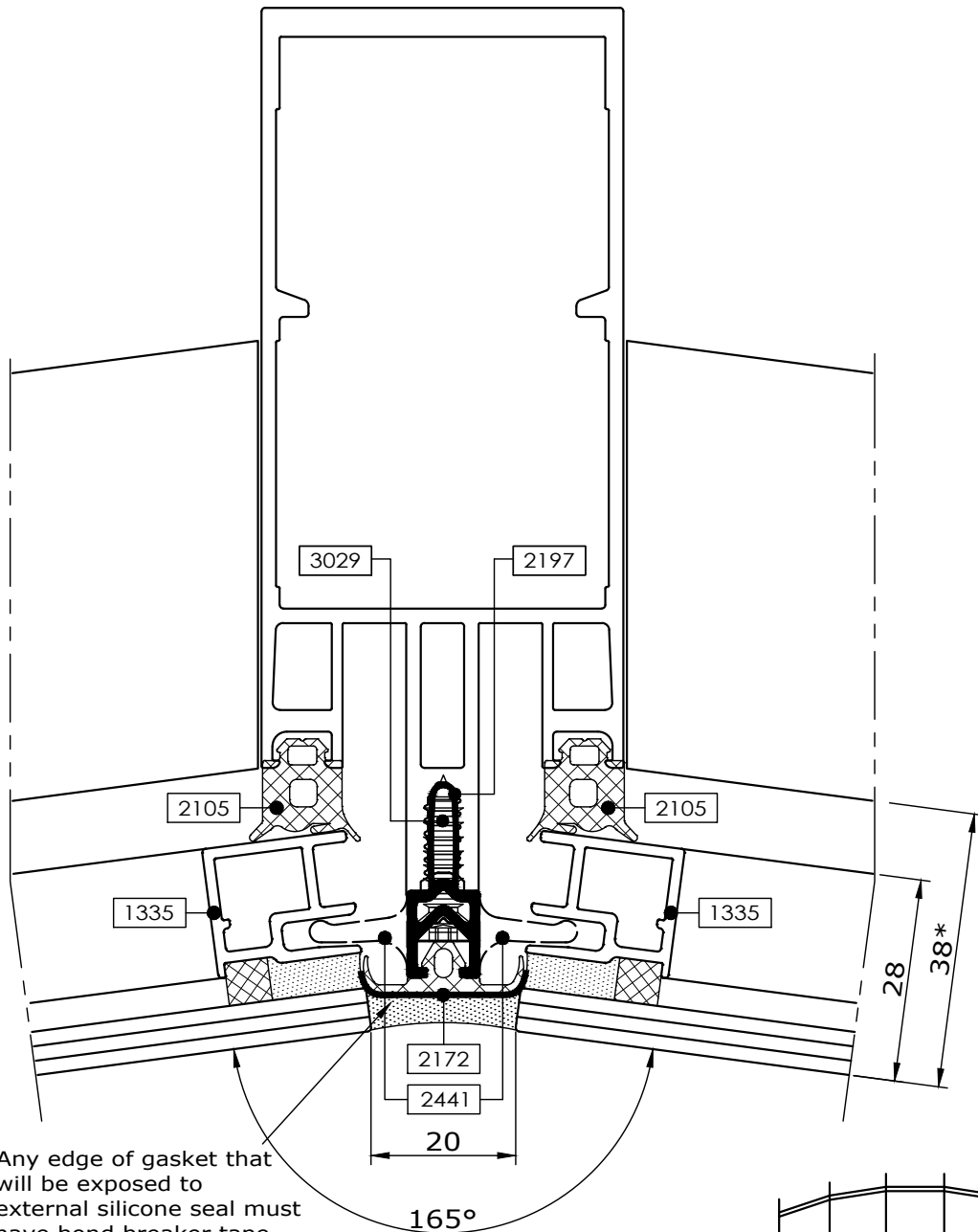
Typical details

# Mullion detail Facetted facade - Single glazed 7.5° maximum

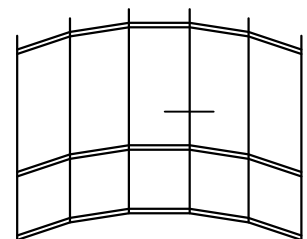
Comar 6EFT



2.80



\* Refer to Glazing Chart for glazing options



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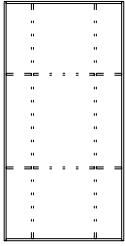
Issue: 05  
Date : 10 -16

# Typical details

2

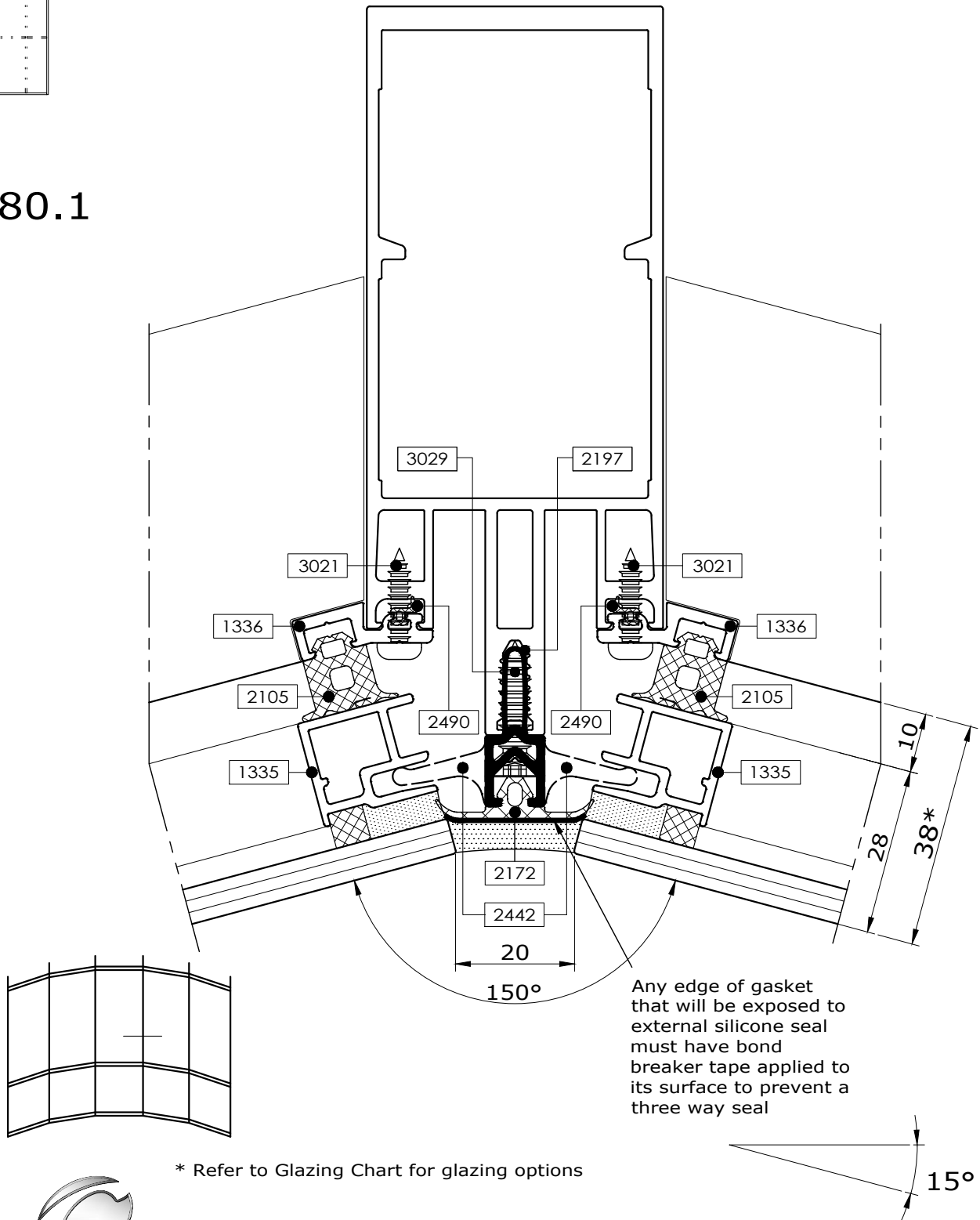
## Comar 6EFT

Mullion detail, Facetted facade - Single glazed  
15° nominal



2.80.1

Fabricators Guide



\* Refer to Glazing Chart for glazing options



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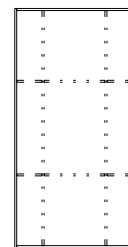
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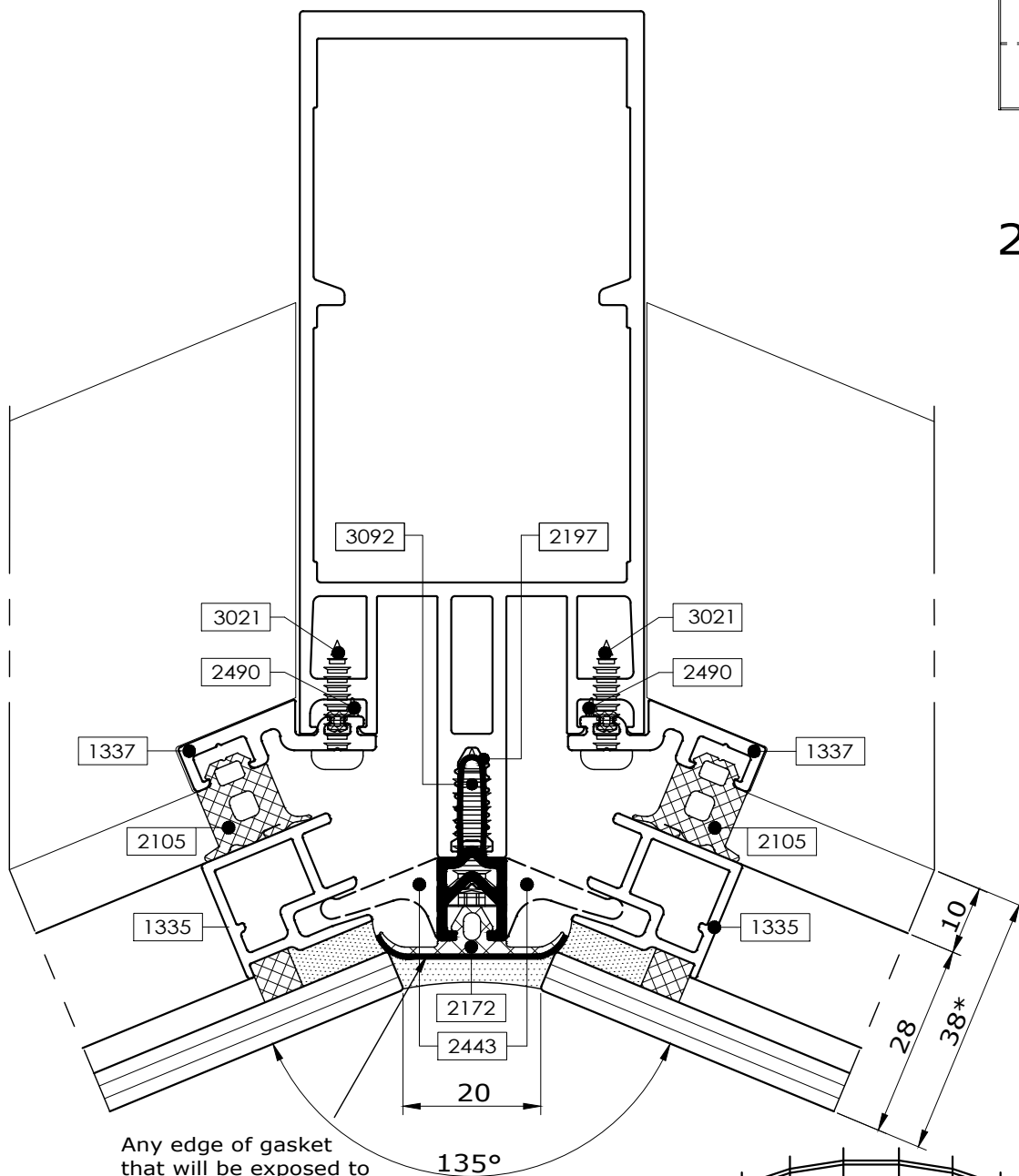


# Mullion detail Facetted facade - Single glazed 22.5° nominal

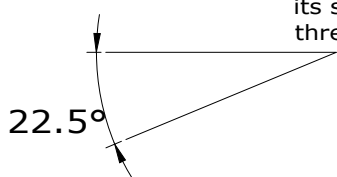


2.81

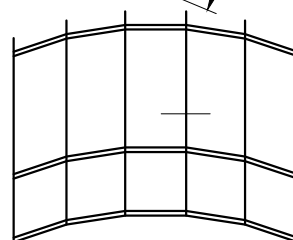
Fabricators Guide



Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal



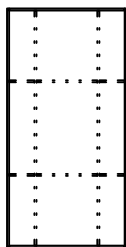
\* Refer to Glazing Chart for glazing options



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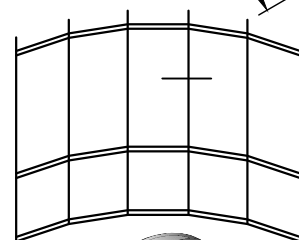
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Mullion detail, Facetted  
facade - Single glazed  
30° nominal

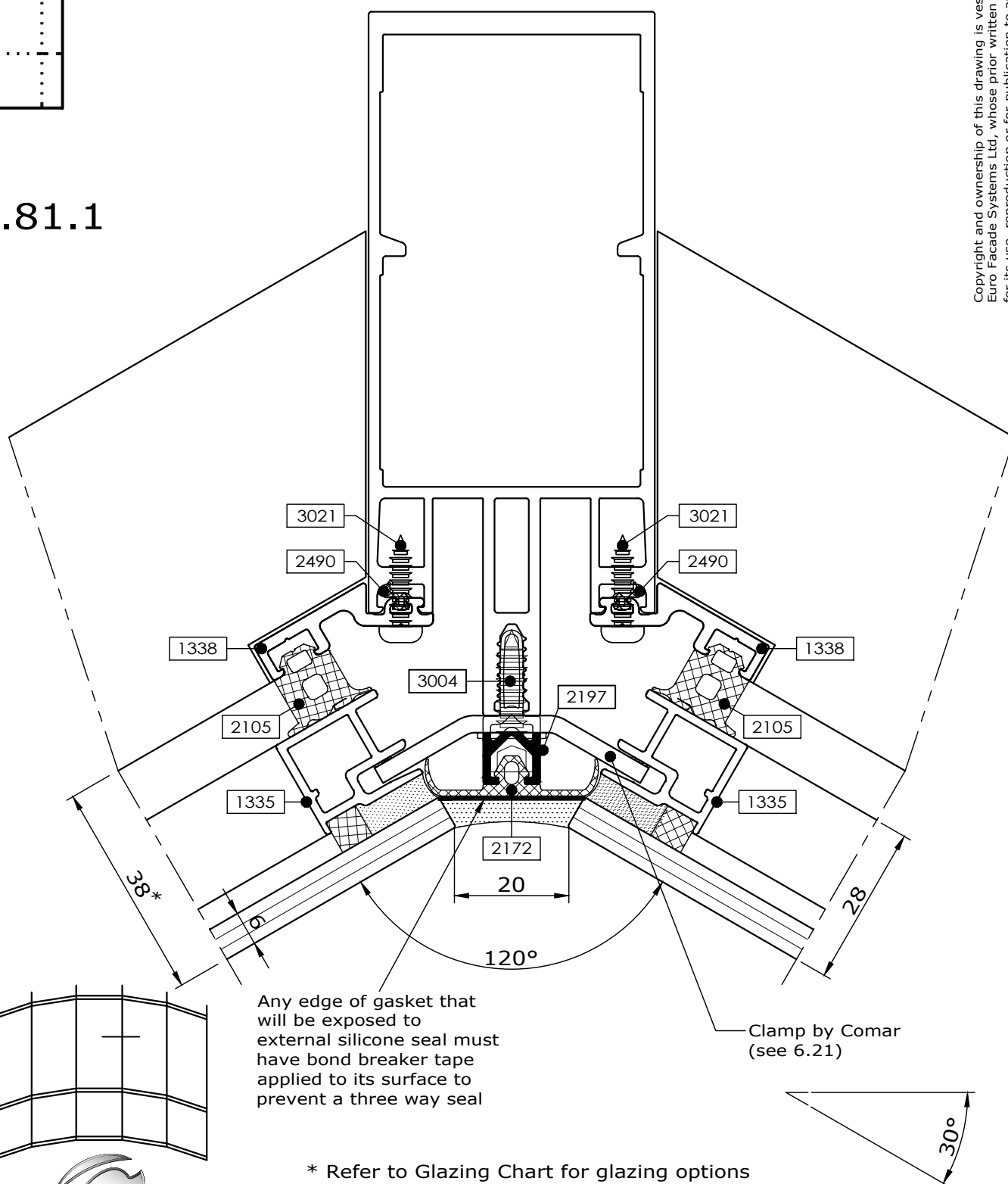


## 2.81.1

# Fabricators Guide



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Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal

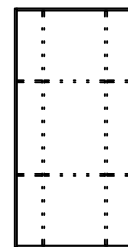
\* Refer to Glazing Chart for glazing options

Changes reserved  
Sous reserve de modifications  
Änderungen vorbehalten

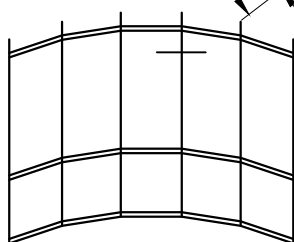
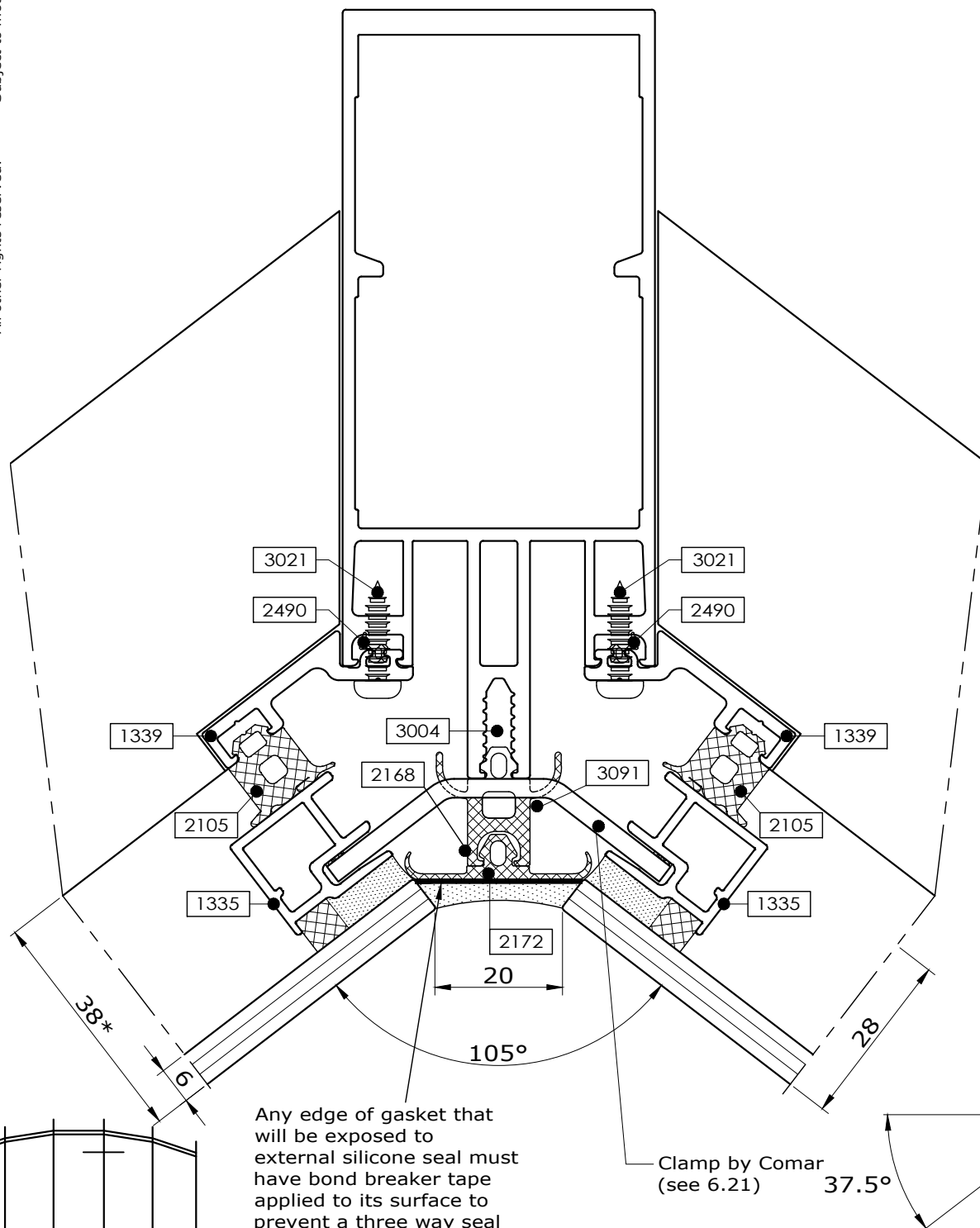
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# Mullion detail Facetted facade - Single glazed 37.5° nominal



2.82



Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal

Clamp by Comar (see 6.21)

37.5°

\* Refer to Glazing Chart for glazing options

Changes reserved  
Sous reserve de modifications  
Änderungen vorbehalten

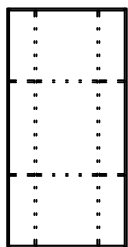
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# Typical details

2

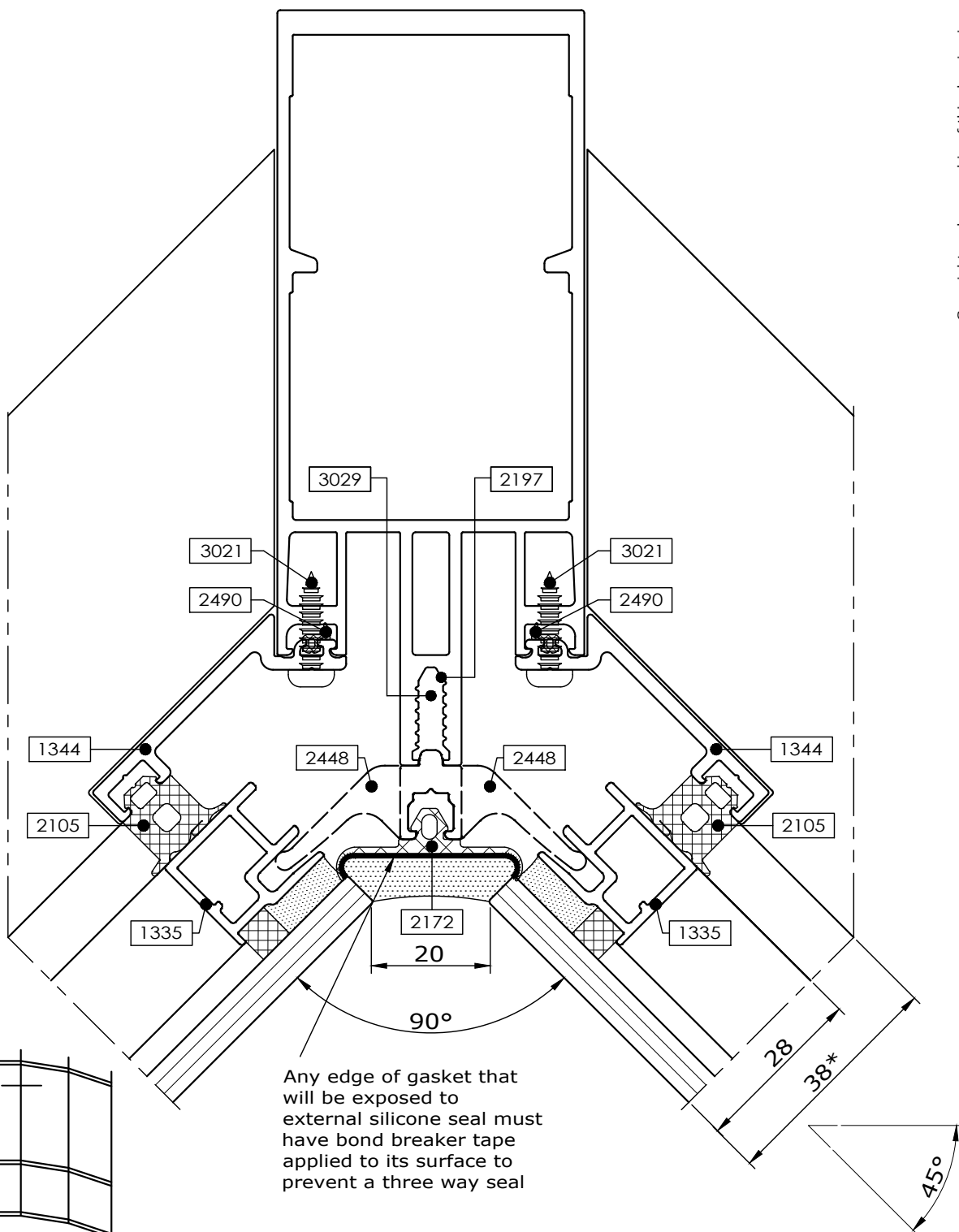
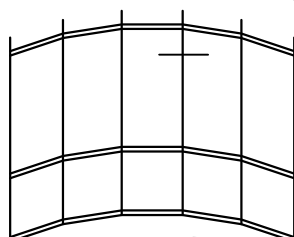
Comar 6EFT

Mullion detail, Facetted facade - Single glazed 45° nominal



2.83

Fabricators Guide



\* Refer to Glazing Chart for glazing options

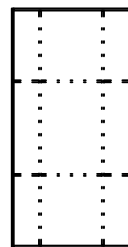
Changes reserved  
Sous reserve de modifications  
Änderungen vorbehalten

2

Typical details

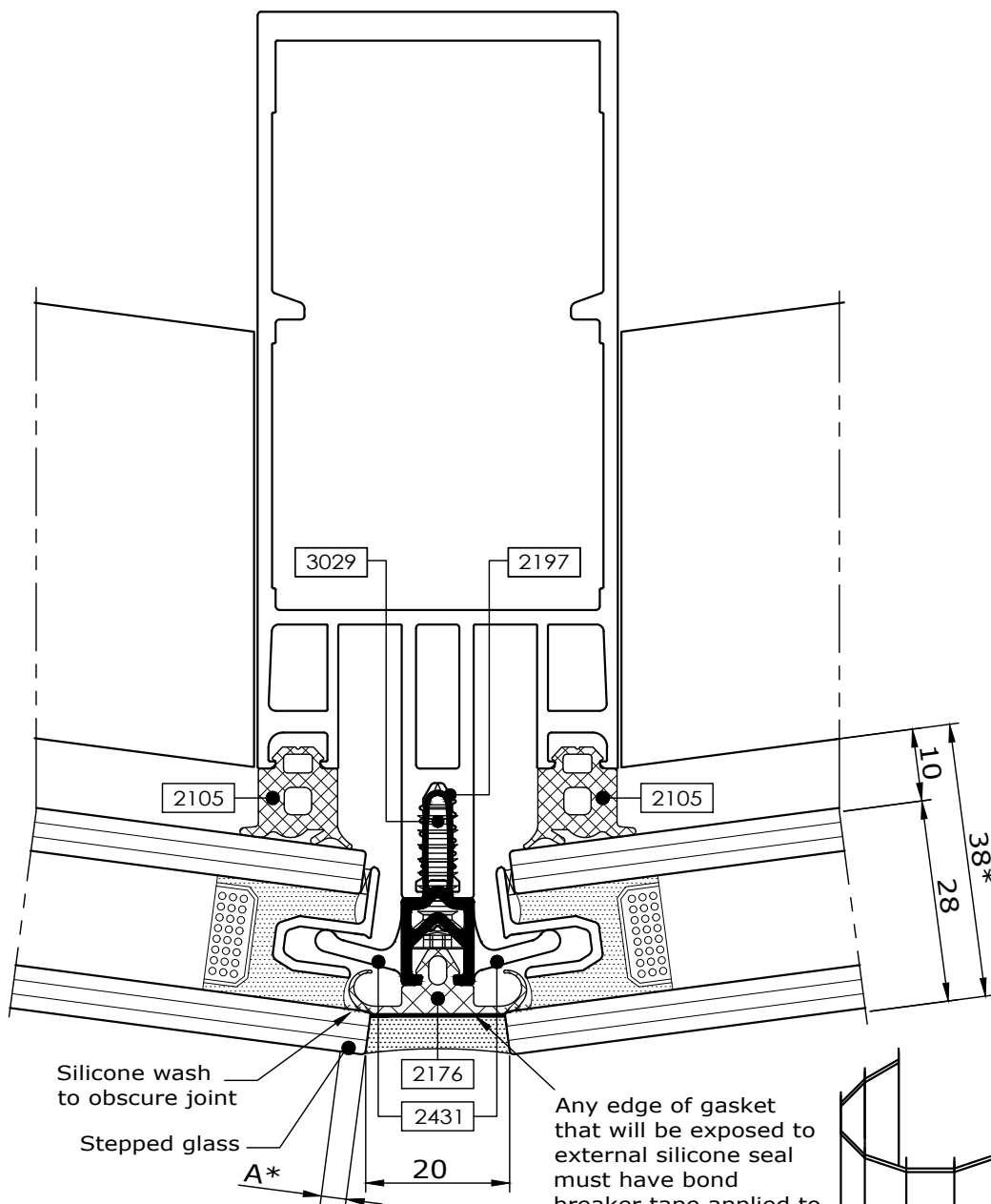
Mullion detail  
Facetted facade  
7.5° maximum

Comar 6EFT



2.84

Fabricators Guide



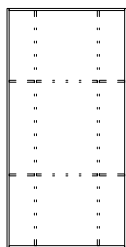
\* Refer to Glazing Chart for glazing options

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Issue: 05  
Date : 10 -16

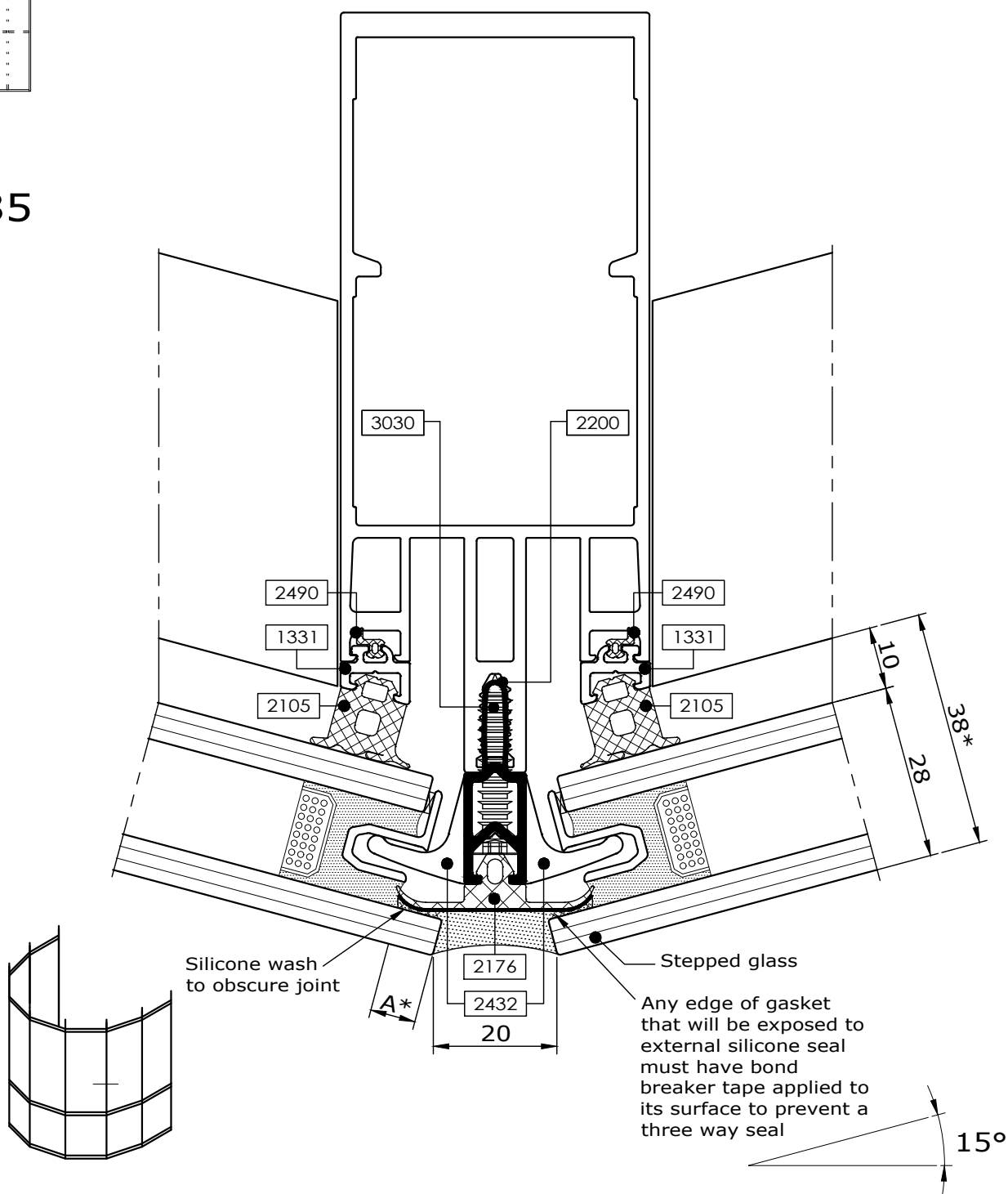
2

Mullion detail  
Facetted facade  
15° nominal



2.85

# Fabricators Guide



\* Refer to Glazing Chart for glazing options



**comar**  
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Issue: 05  
Date : 10 -16

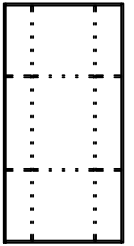
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2

Typical details

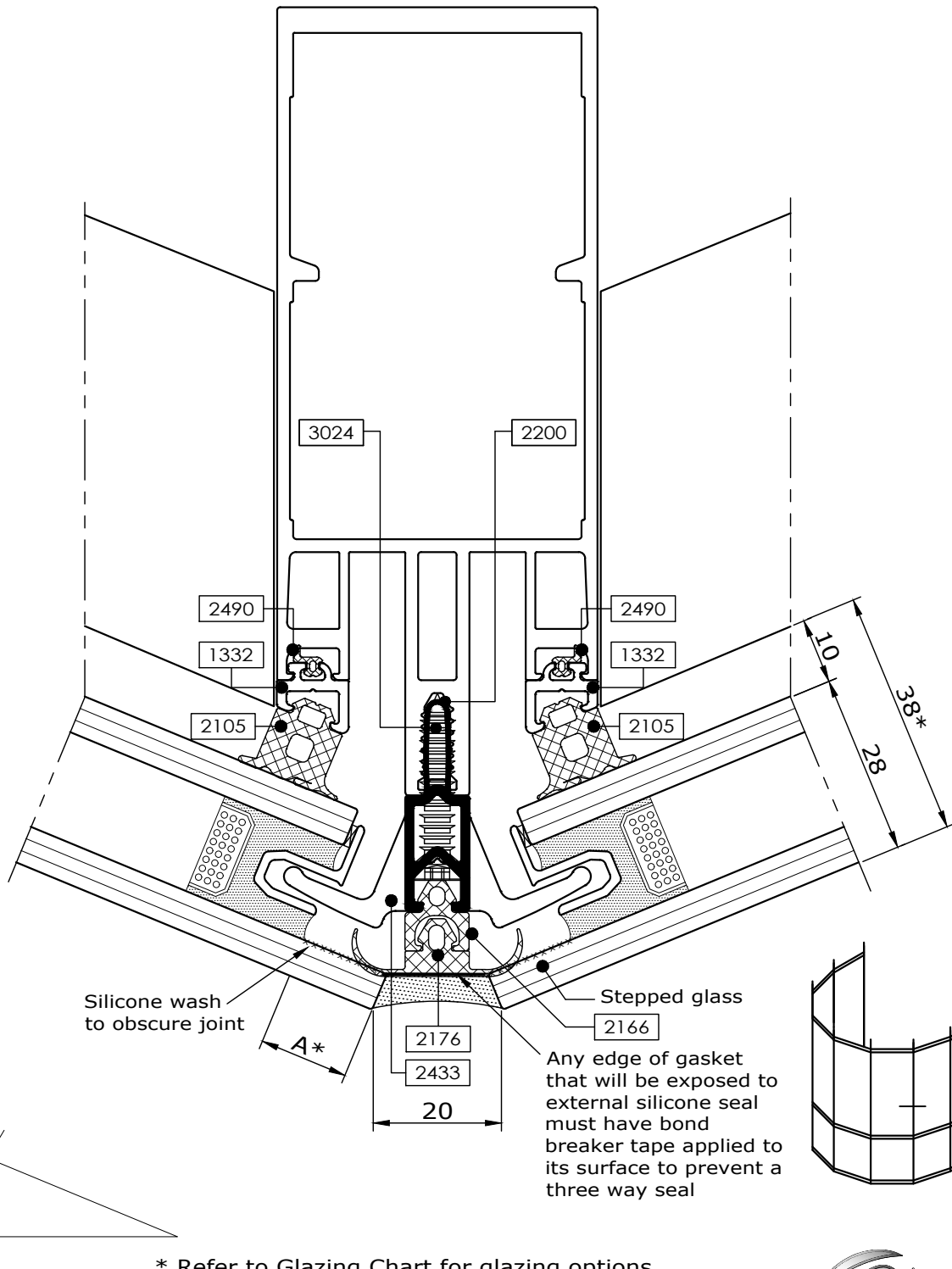
Mullion detail  
Facetted facade  
22.5° nominal

Comar 6EFT



2.86

Fabricators Guide



22.5°

\* Refer to Glazing Chart for glazing options

Changes reserved  
Sous reserve de modifications  
Änderungen vorbehalten

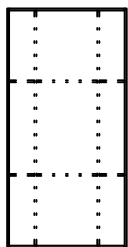
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Date : 10 -16

## Typical details

2

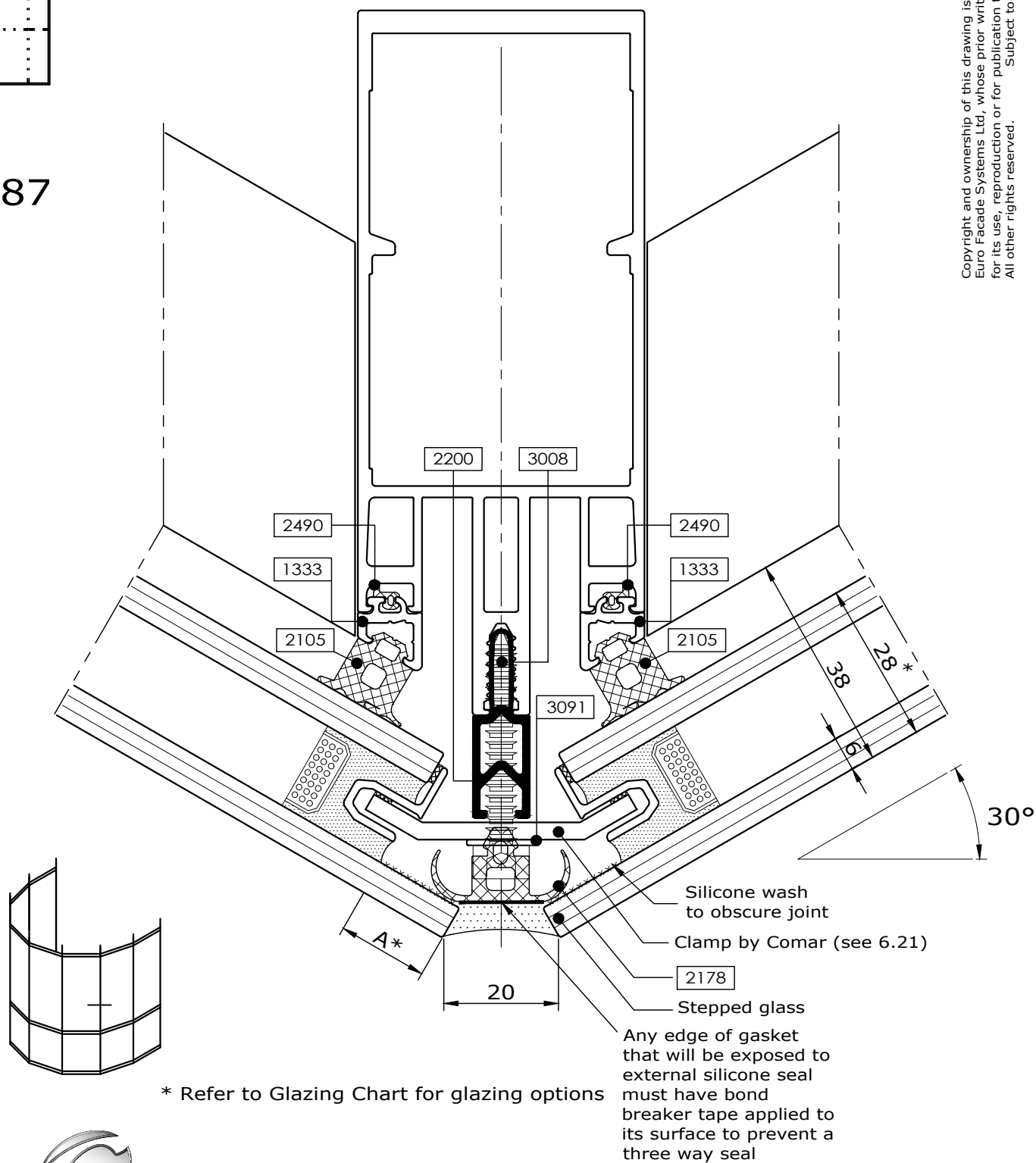
### Comar 6EFT

### Mullion detail Facetted facade 30° nominal



2.87

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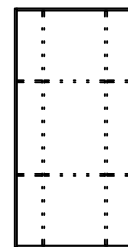
**comar**  
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Sous reserve de modifications  
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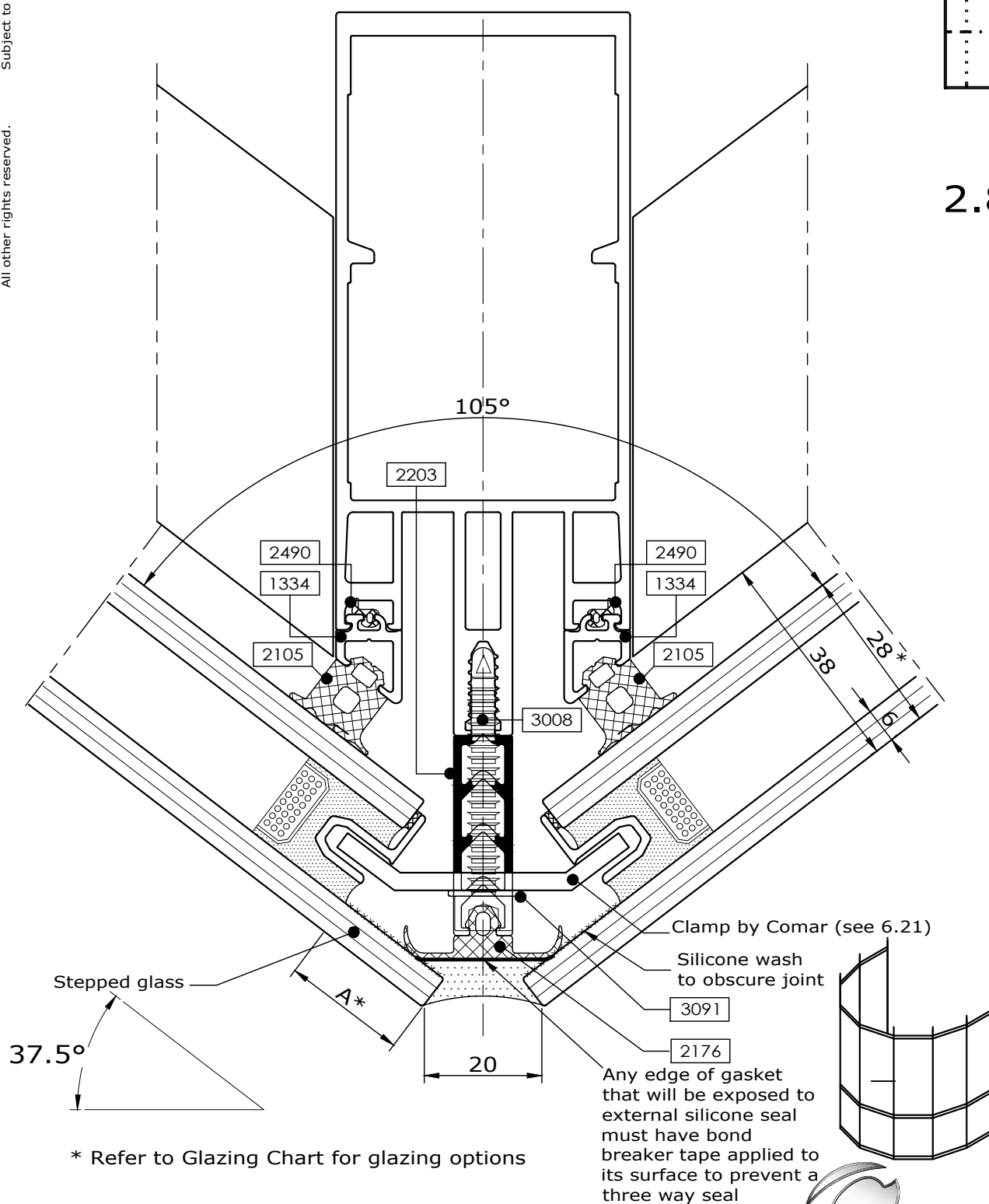
Issue: 05  
Date : 10 -16



Mullion detail  
Facetted facade  
37.5° nominal

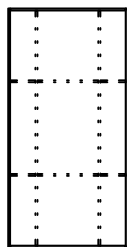


2.88



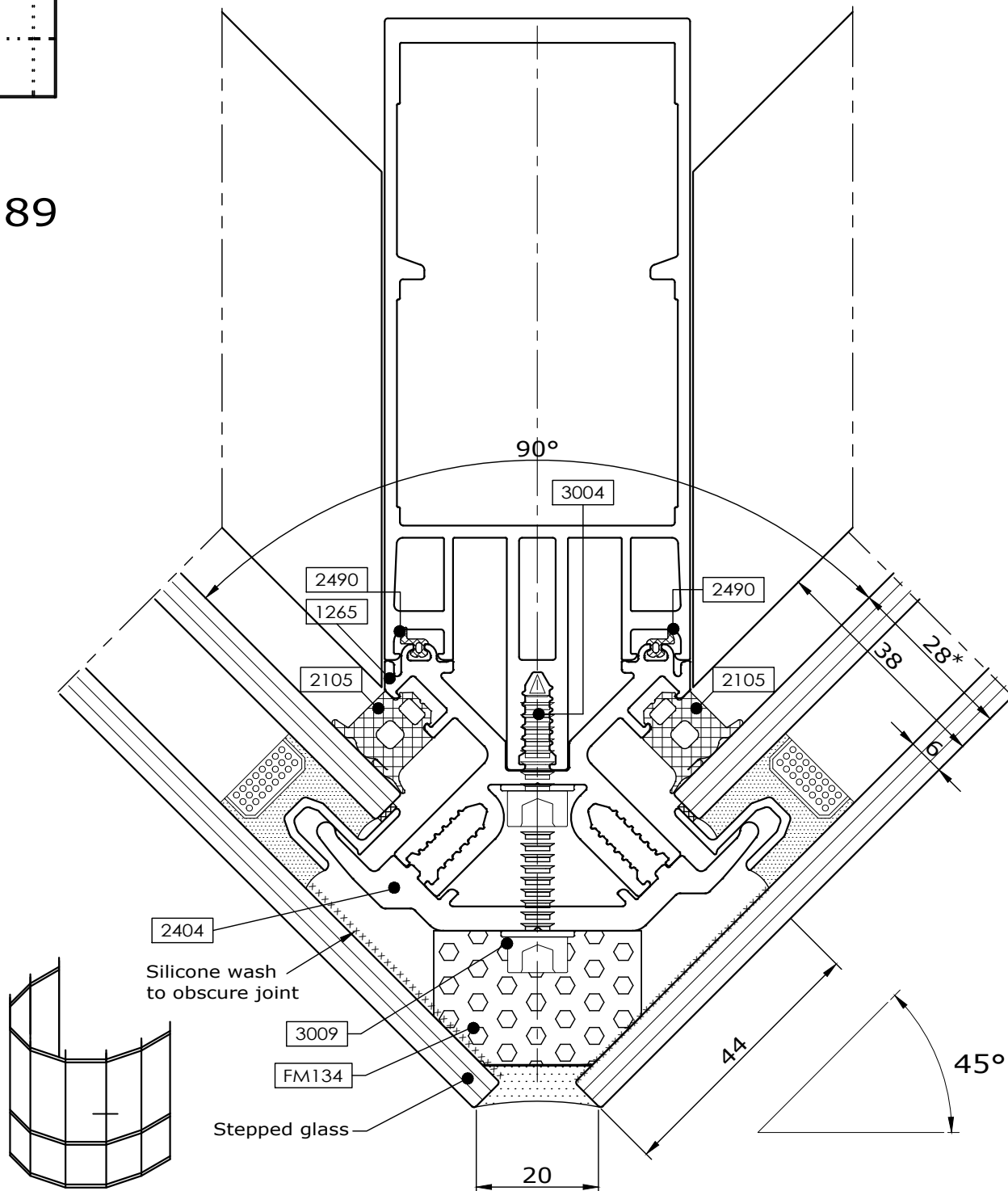
## Comar 6EFT

## Mullion detail Facetted facade 45° nominal



2.89

Fabricators Guide



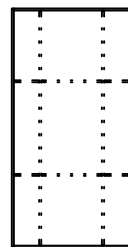
\* Refer to Glazing Chart for glazing options

2

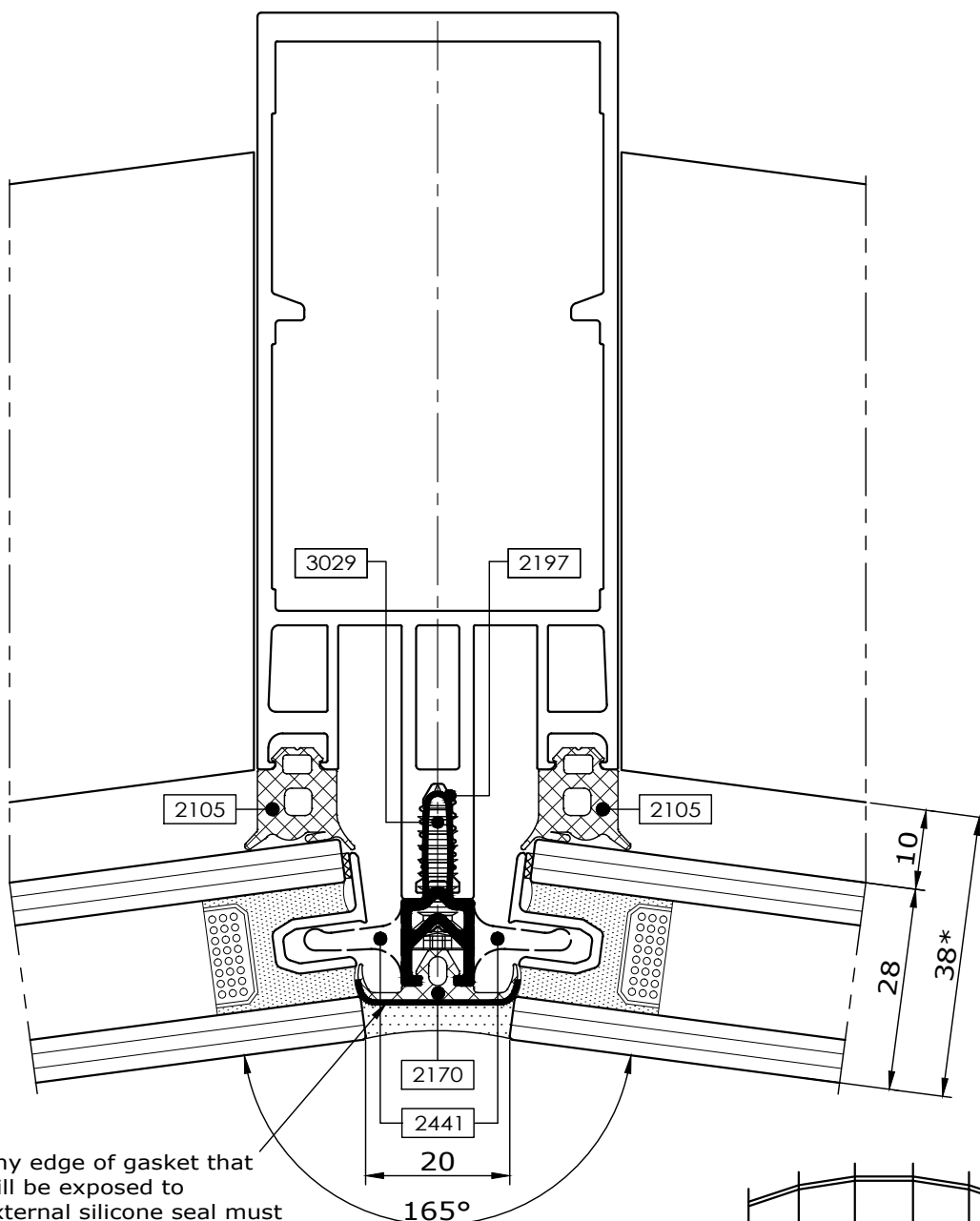
Typical details

Mullion detail  
Facetted facade  
7.5° maximum

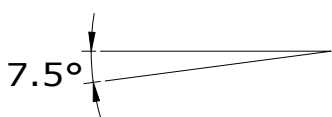
Comar 6EFT



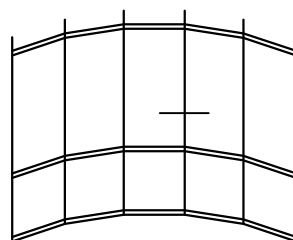
2.90



Any edge of gasket that  
will be exposed to  
external silicone seal  
must have bond breaker  
tape applied to its surface  
to prevent a three way seal



\* Refer to Glazing Chart for glazing options



Fabricators Guide

Changes reserved  
Sous reserve de modifications  
Änderungen vorbehalten

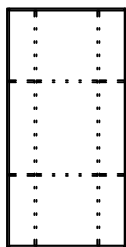
Issue: 05  
Date : 10 -16

# Typical details

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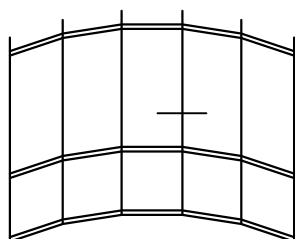
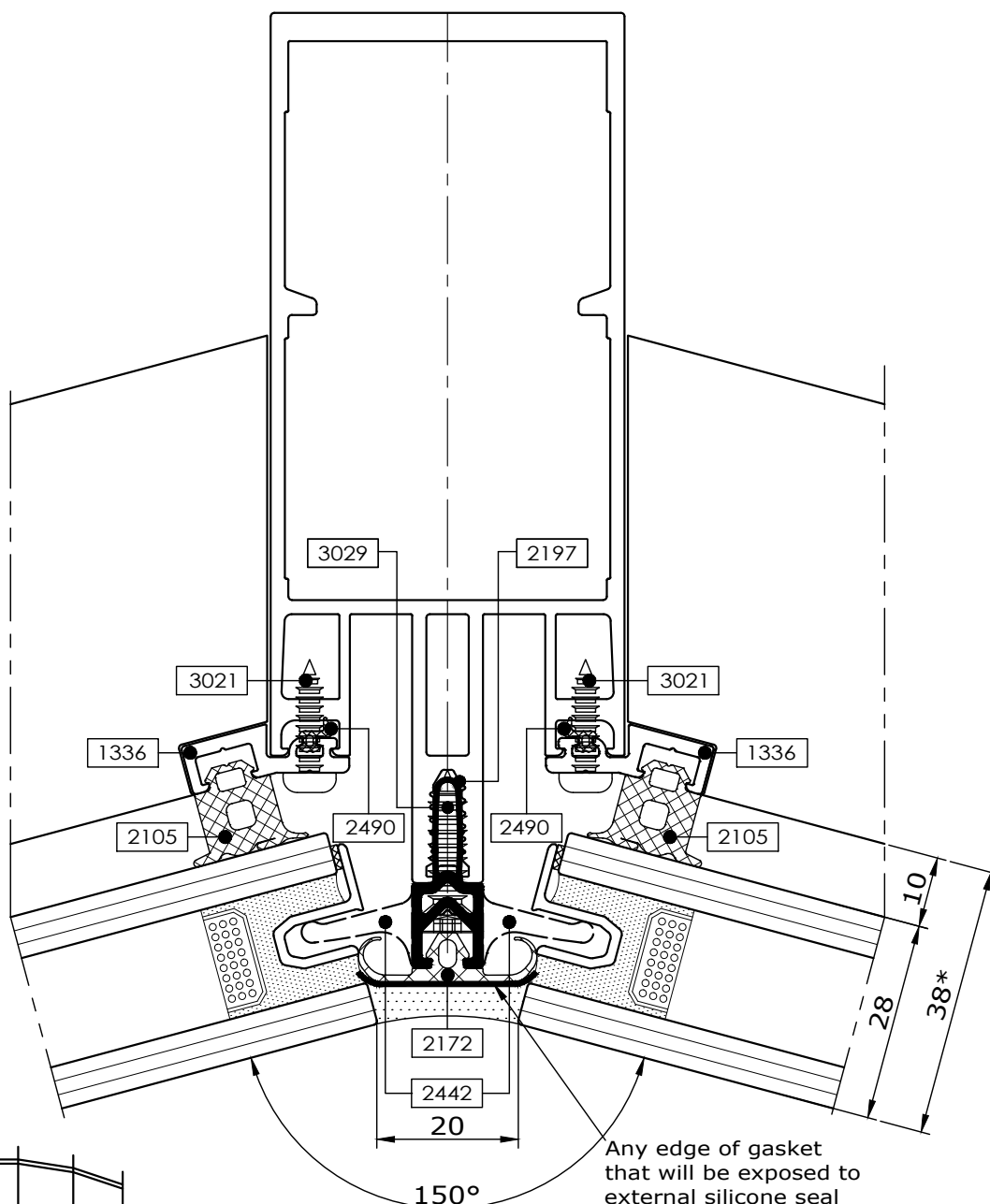
Comar 6EFT

Mullion detail  
Facetted facade  
15° nominal

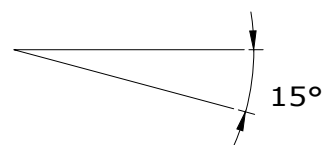


2.91

Fabricators Guide



\* Refer to Glazing Chart for glazing options



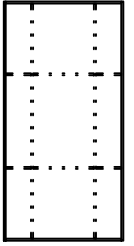
Changes reserved  
Sous reserve de modifications  
Änderungen vorbehalten

2

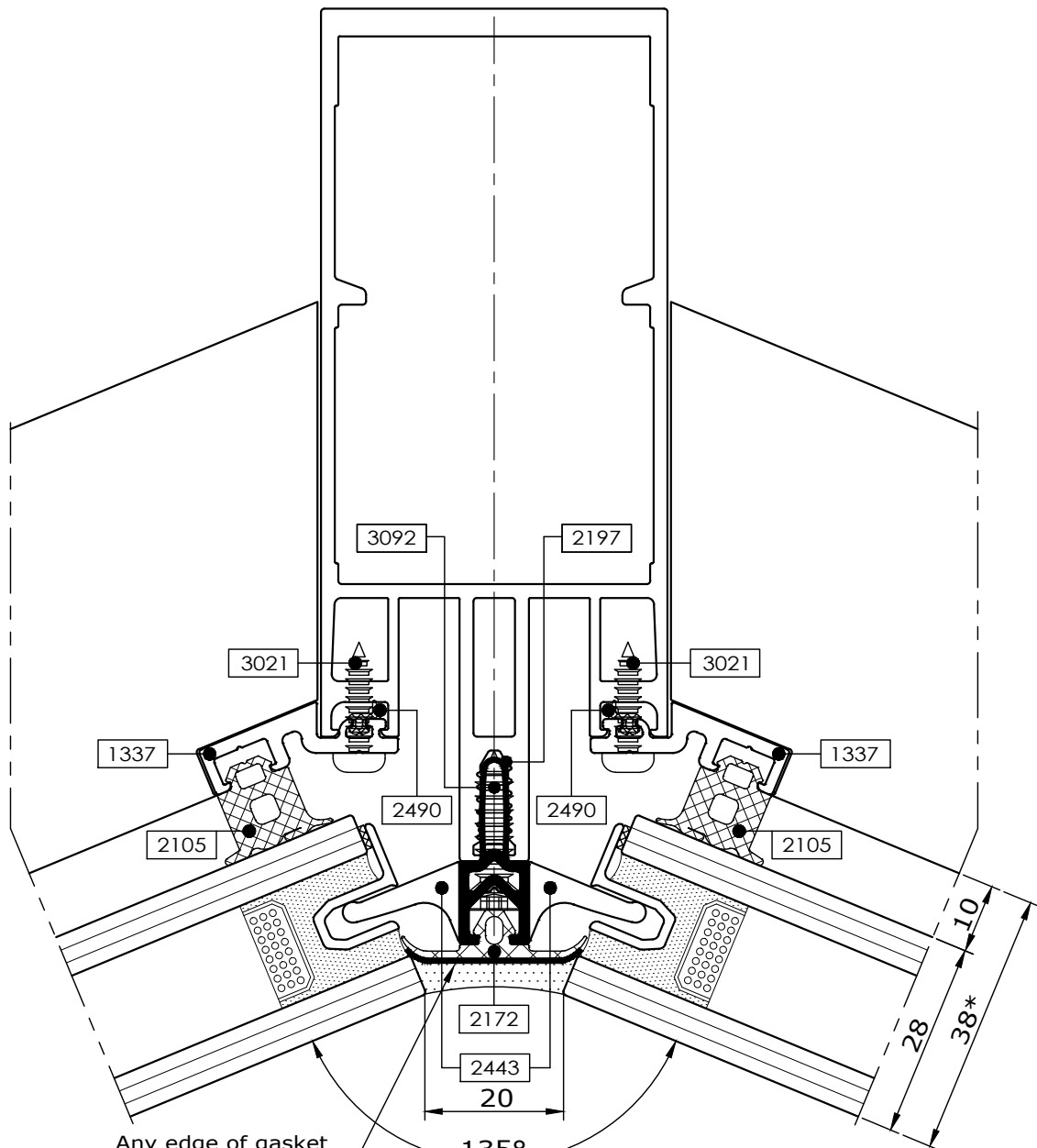
Typical details

Mullion detail  
Facetted facade  
22.5° nominal

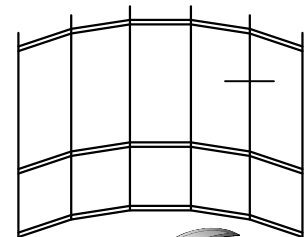
Comar 6EFT



2.92



Fabricators Guide



22.5°

\* Refer to Glazing Chart for glazing options

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Sous reserve de modifications  
Änderungen vorbehalten

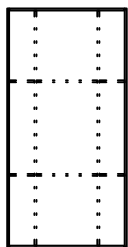
Issue: 05  
Date : 10 -16

# Typical details

2

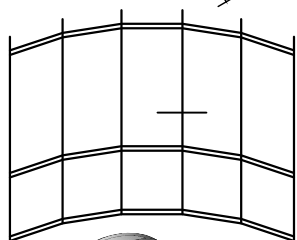
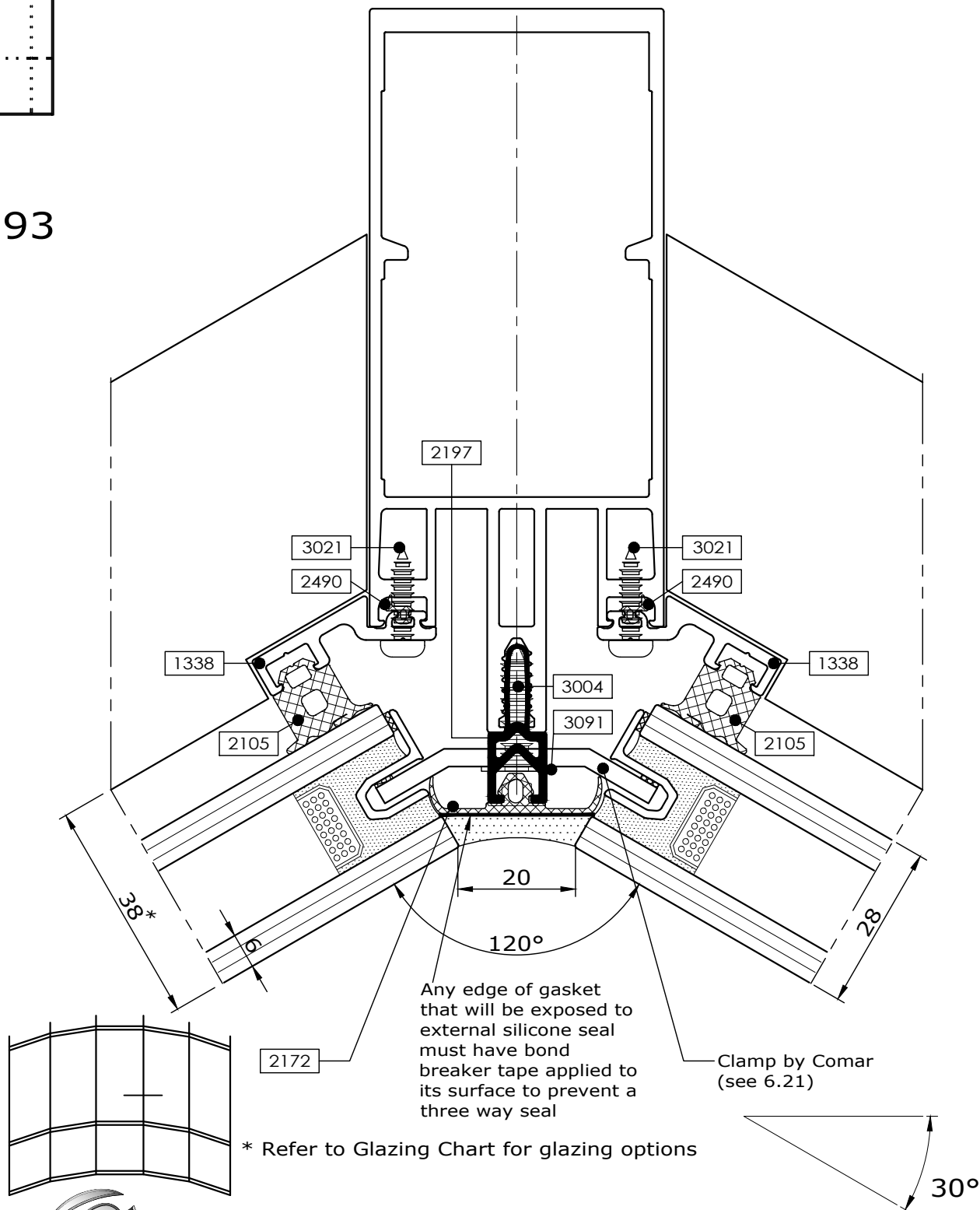
Comar 6EFT

Mullion detail  
Facetted facade  
30° nominal



2.93

Fabricators Guide

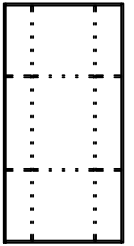


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Typical details

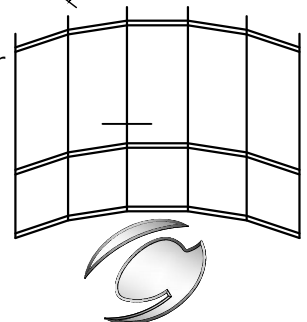
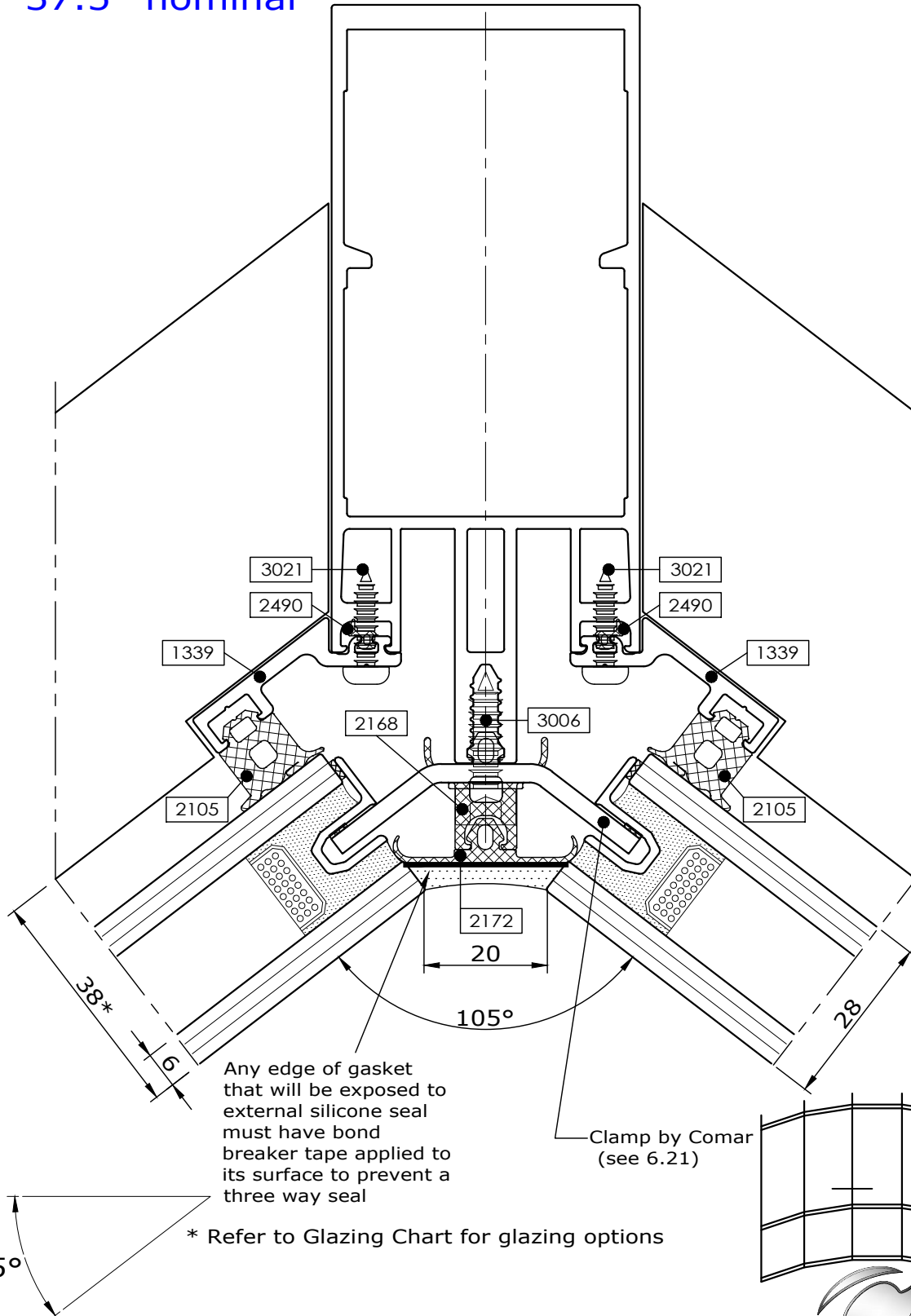
Comar 6EFT

Mullion detail  
Facetted facade  
37.5° nominal



2.94

Fabricators Guide



Changes reserved  
Sous reserve de modifications  
Änderungen vorbehalten

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Date : 10 -16

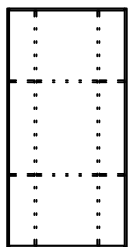
**comar**  
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# Typical details

2

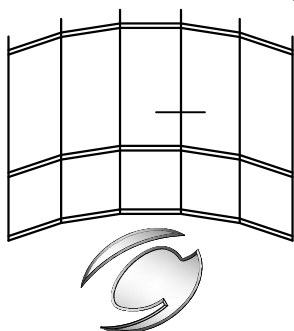
Comar 6EFT

Mullion detail  
Facetted facade  
45° nominal

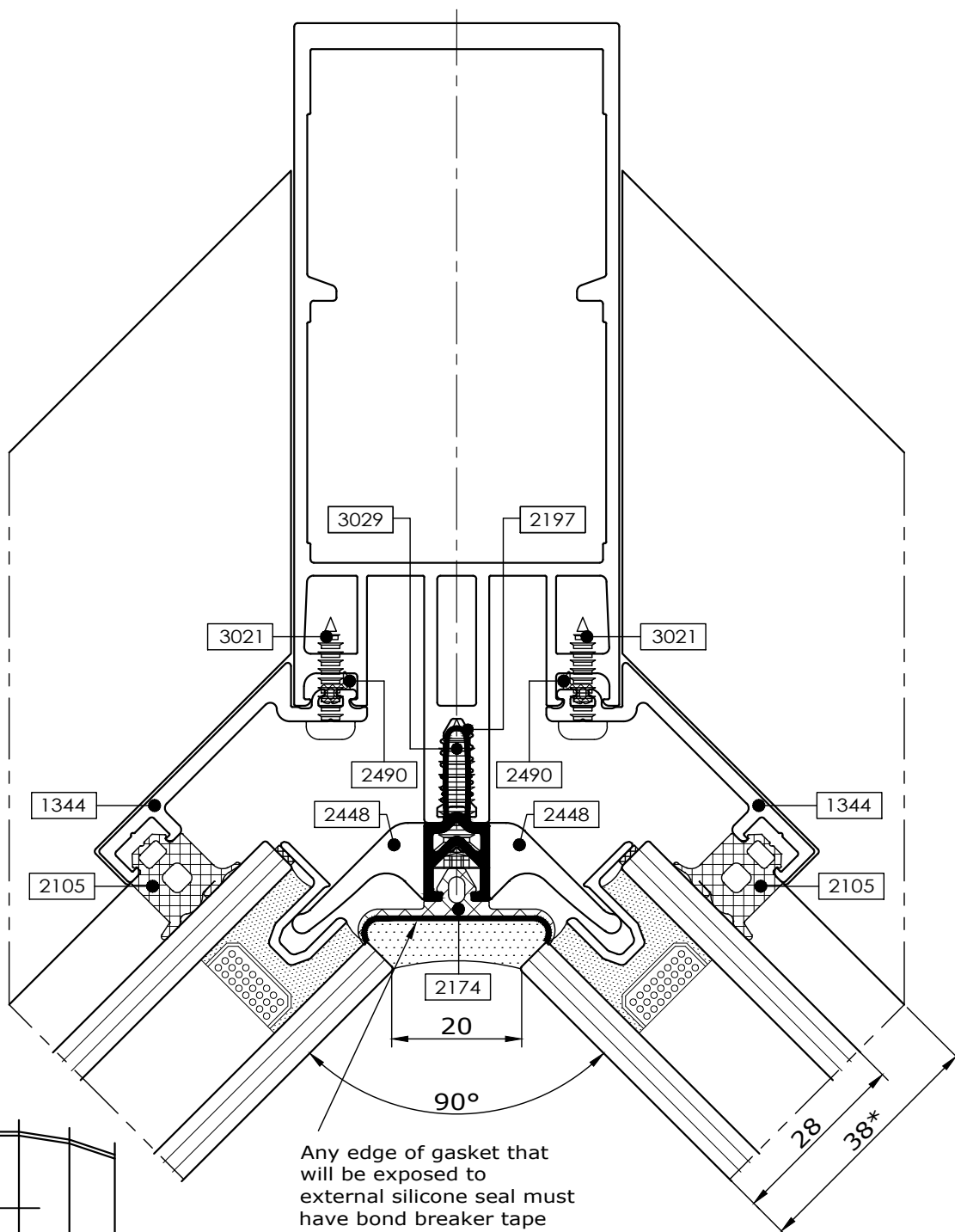


2.95

Fabricators Guide



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Any edge of gasket that will be exposed to external silicone seal must have bond breaker tape applied to its surface to prevent a three way seal

45°

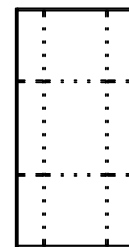
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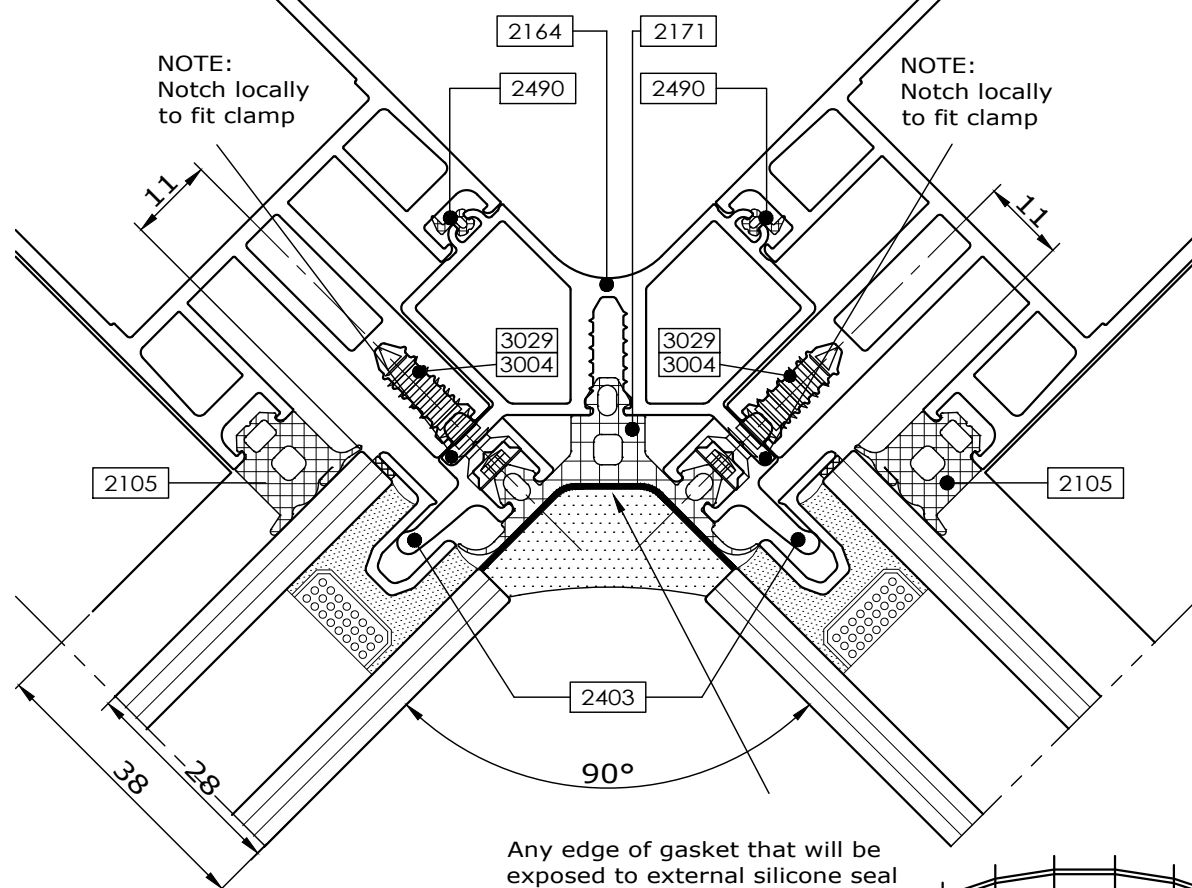
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Date : 10 -16



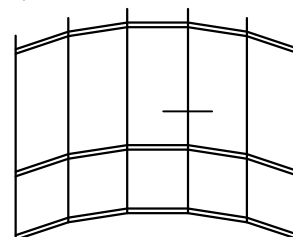
# Mullion detail Facetted facade 45° nominal



2.96



Fabricators Guide



45°

\* Refer to Glazing Chart for glazing options


**comar**

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