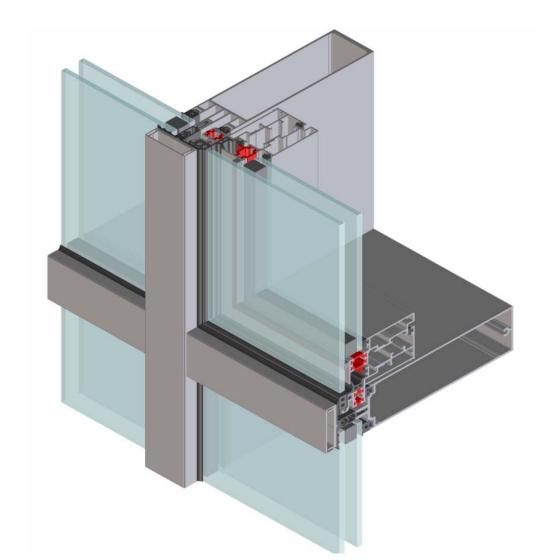
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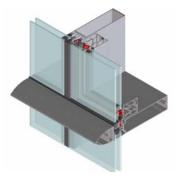
# Parallel Hinge System

## Comar 6EFT

## Parallel Hinge System



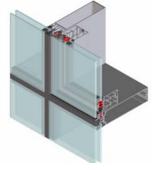
## **Concealed Vent into Capped CW**



2sided SGH



2sided SGV



4sided SG

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Issue:04 Date :01-14



## Introduction

Comar 6 EFT Concealed Vent

#### Comar 6 EFT Concealed Vent - Parallel

**Hinge System** is a window fitted with scissor action friction hinges that allows the window to be pushed out horizontally and is available in single or double glazed units.

## Specification Summary

#### Glazing

The system is glazed from the outside, structurally bonded to the moving frame (window vent)
Glass should conform to the requirements of BS 6262 for thickness and type, in terms of wind resistance, safety and security.

#### Drainage

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

#### Thermal Insulation

Classification in accordance with DIN 4108 or EN ISO 10077 - 1

#### Thermally Concealed Vent:

The thermal transmittance (Uf) W/m2 K, is dependant on the insulator strip, calculated as per EN ISO 10077 - 1.

Comparable with class 1.0 or 2.1 DIN 4108 - 4 Table 3

#### Sound Insulation

Depending largely upon 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 themal barrier system is achieved by means of PVC/PP extrusion. with the requirements of BS1474.

#### 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.

#### Classification

Air permeability: BS EN 12207 - Class 4

Water tightness: BS EN 12208 - Class E 750

Wind resistance: BS EN 13116 - 2400 Pa design

- 3600 Pa safety

2400Pa (Pascal's) depends upon correct mullion and transom selection to suit span and spacing on a project-by-project basis.

#### Size limitations

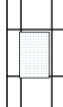
The size limitations of the system depends mainly on the hardware used. Please refer to Comar's Technical Office for advise.

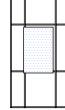


Overview

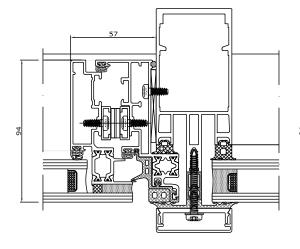
## Parallel Hinge System Overview

## Comar 6EFT





9.00



#### Notes:

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- 1. For manual operation up to 1500mm wide 2 handles central at the sides. Can also be mechanically or electrically operated.
- 2. For vents 1500mm to 2000mm wide electric operation should be used.
- 2. Vents either side of a facetted mullion may be possible depending on the angle, contact Comar's technical department for advice.
- 3. A minimum of a 60mm transom (1150) must be used above and below where a concealed vent is to be positioned.
- 4. For width / height / weight combination options, please contact Comar's technical department.

#### Integrates into:

Fully capped Curtain Walling 2 sided with vertical capping (2sided SGV)

#### Integrates into:

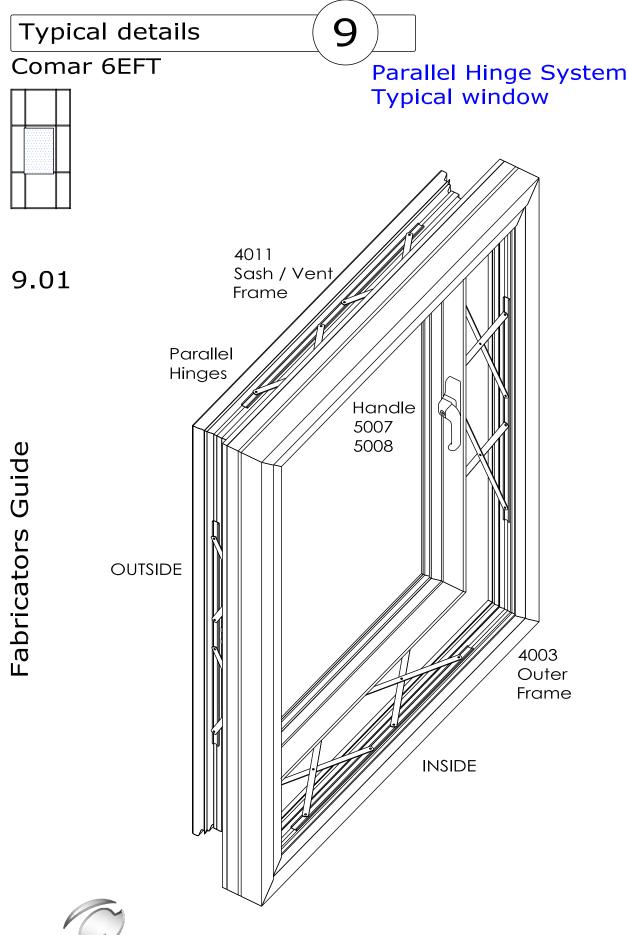
2 sided with horizontal capping (2sided SGH) 4 sided structural glazing (4sided SG)

#### Limitations

	Max. width	Max. height	Max. weight
Parallel Hinge System	2000mm depends on height	2500mm depends on width	100 / 200kg depends on sizing

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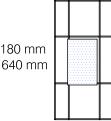
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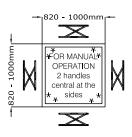
## Parallel Hinge System Hinges charts

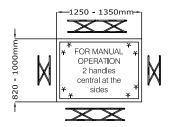
**FAQ** Maximum Opening Distance 180 mm Minimum Height



STANDARD PARALLEL Maximum vent manual operation is 100ka

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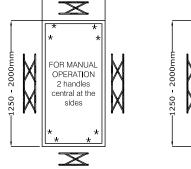


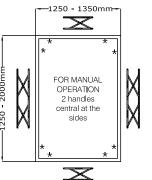


9.02

FOR FUTURE ADDITIONS TO THE MANUAL

1820 **-** 1000mm DUAL PARALLEL





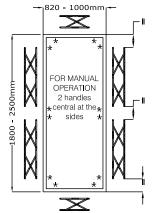
DUAL PARALLEL Maximum vent weight for manual operation is 200kg

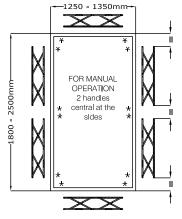
Maximum vent

weight for

manual

operation is 200kg





Dimensions shown are mullion and transom centre to centre

For other sizes please contact Comar Technical Department

Standard parallel hinge HN600XSLF

> 470 mm Overall Dual parallel hinge



Opening distance 180 mm Parallel hinges are available

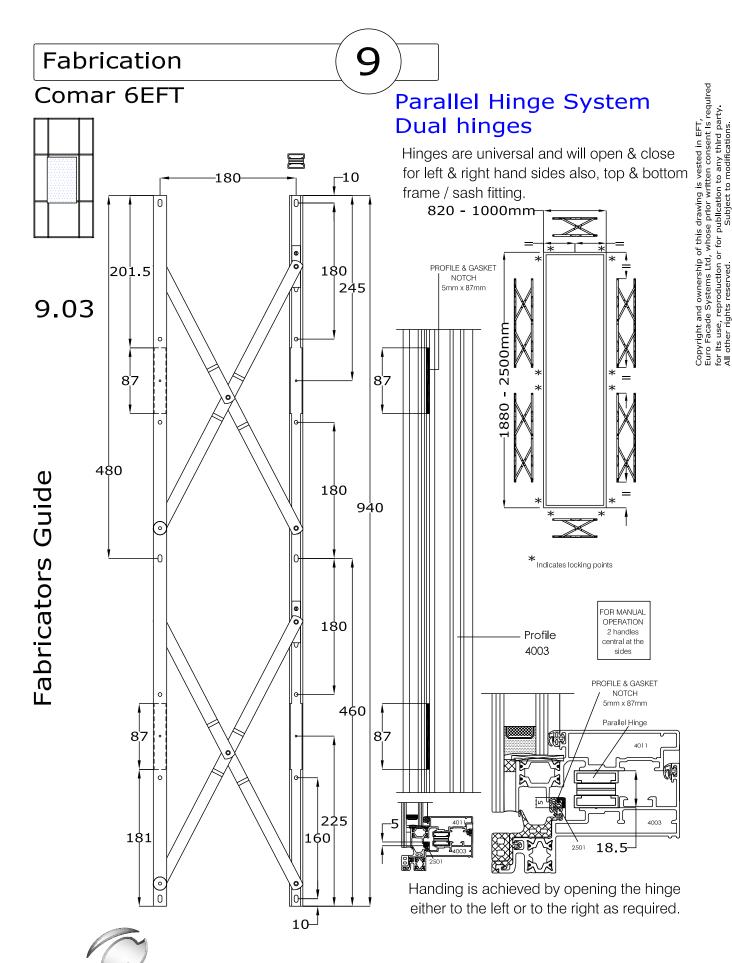
for special order

Recommended positions of locking points \*

For windows with a width of 2500 mm and a hieght of 820 mm or greater then powered opening mechanism's should be used.

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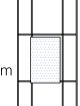


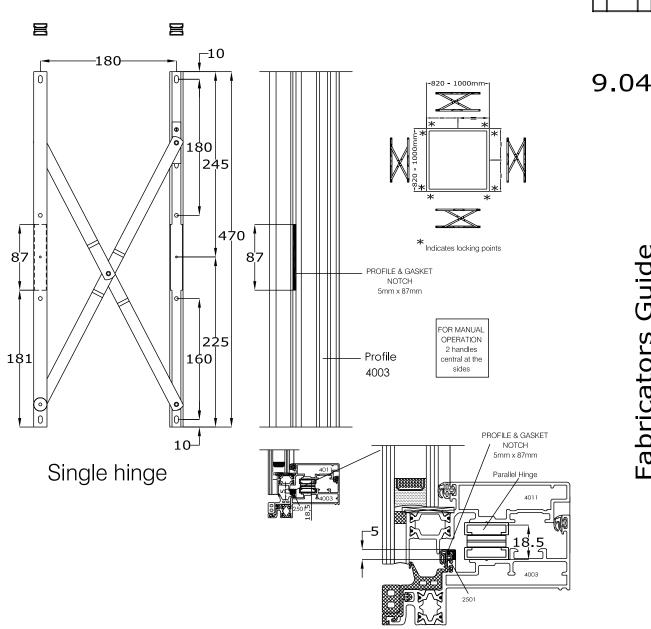
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#### NOTE:-

Hinges are universal and will open & close for left & right hand sides also, top & bottom frame / sash fitting.



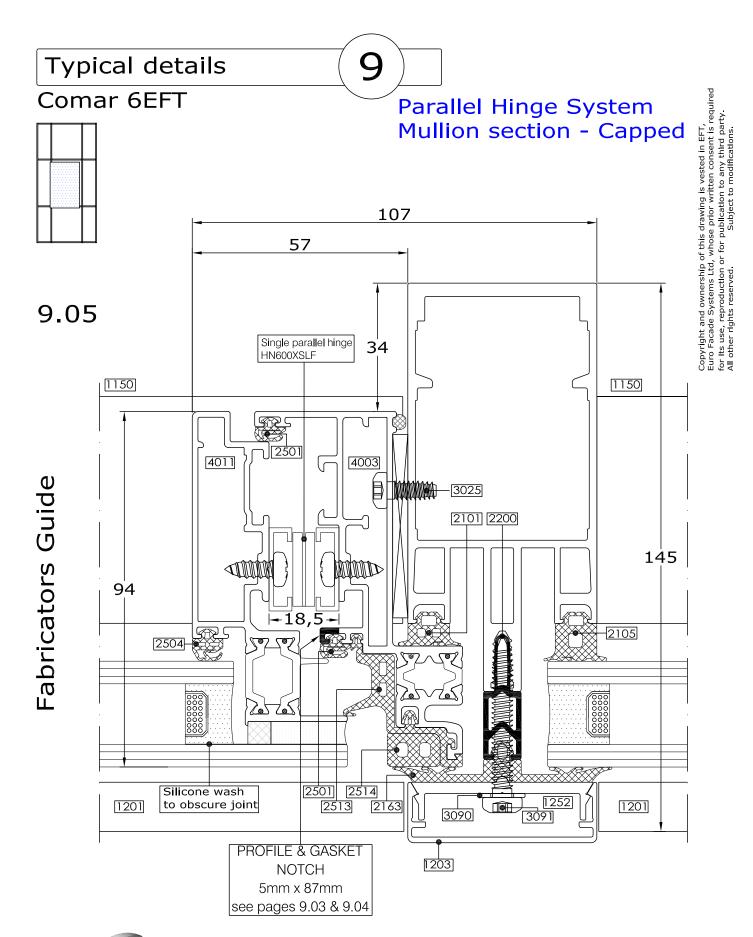


Hinges are universal and will open and operate for both left and right sides of the frame and sash and for the top and bottom.

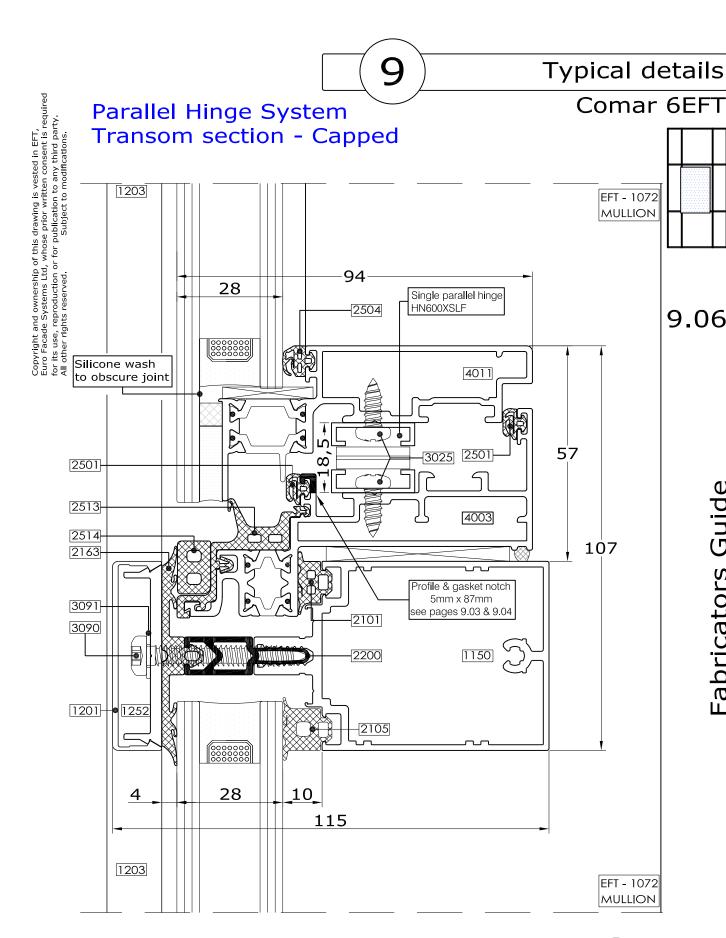
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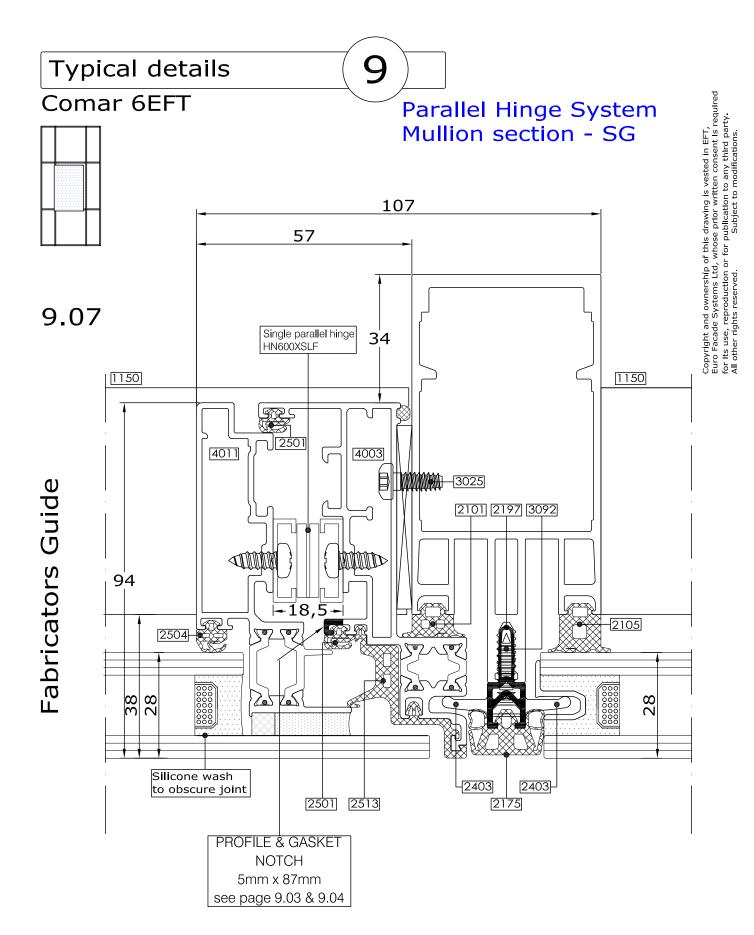




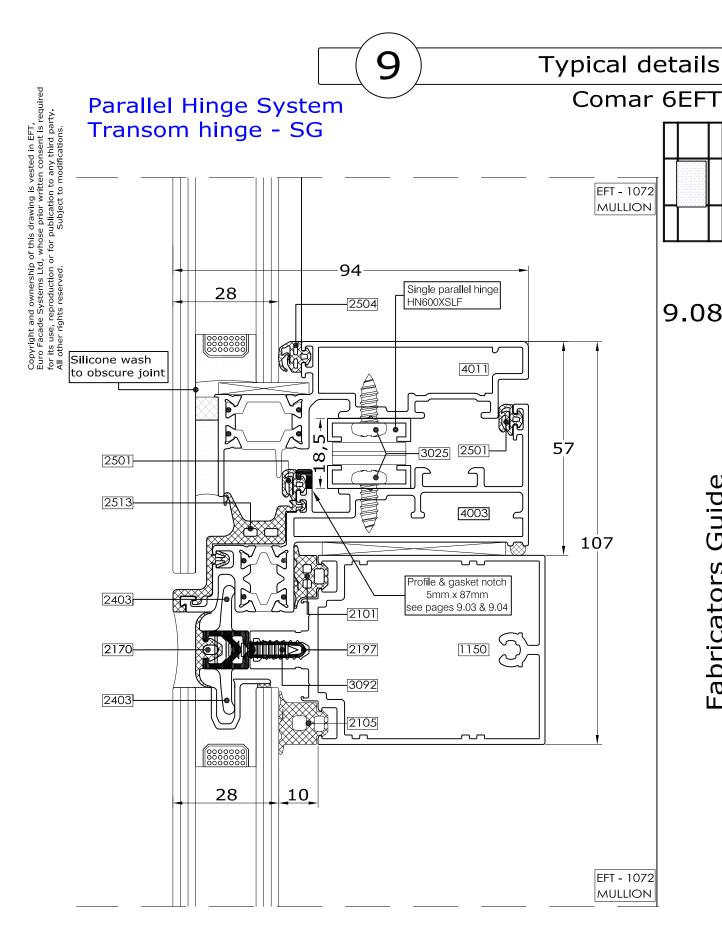




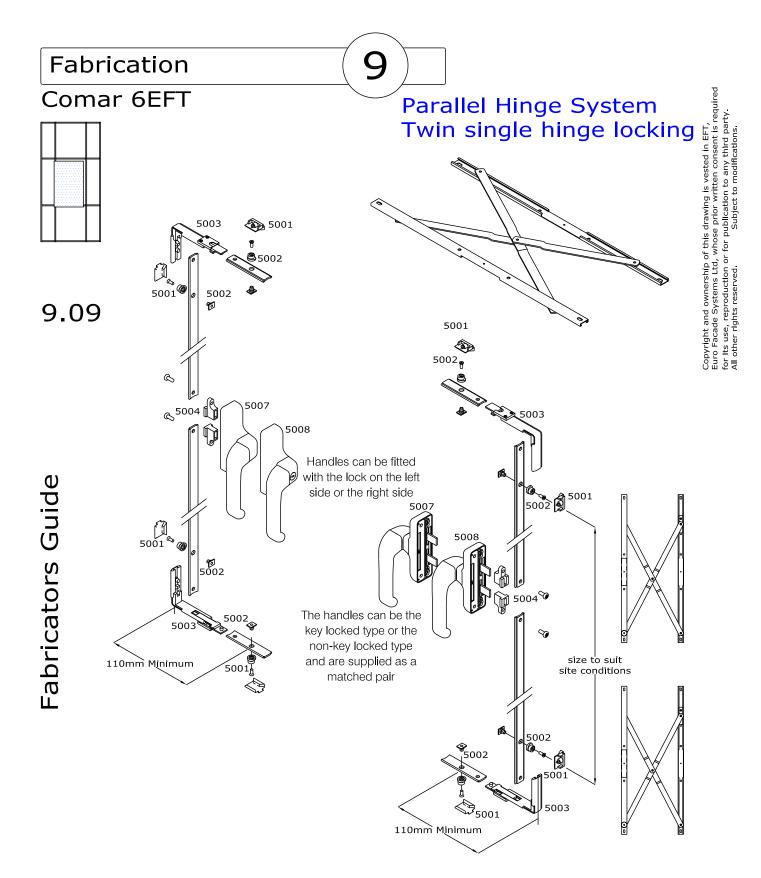






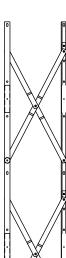


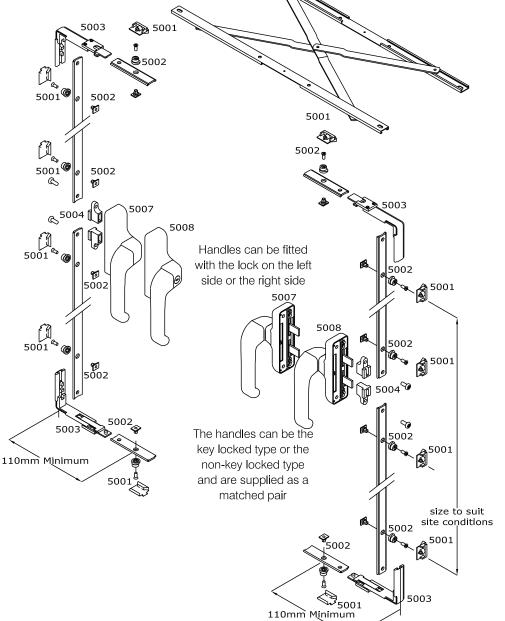






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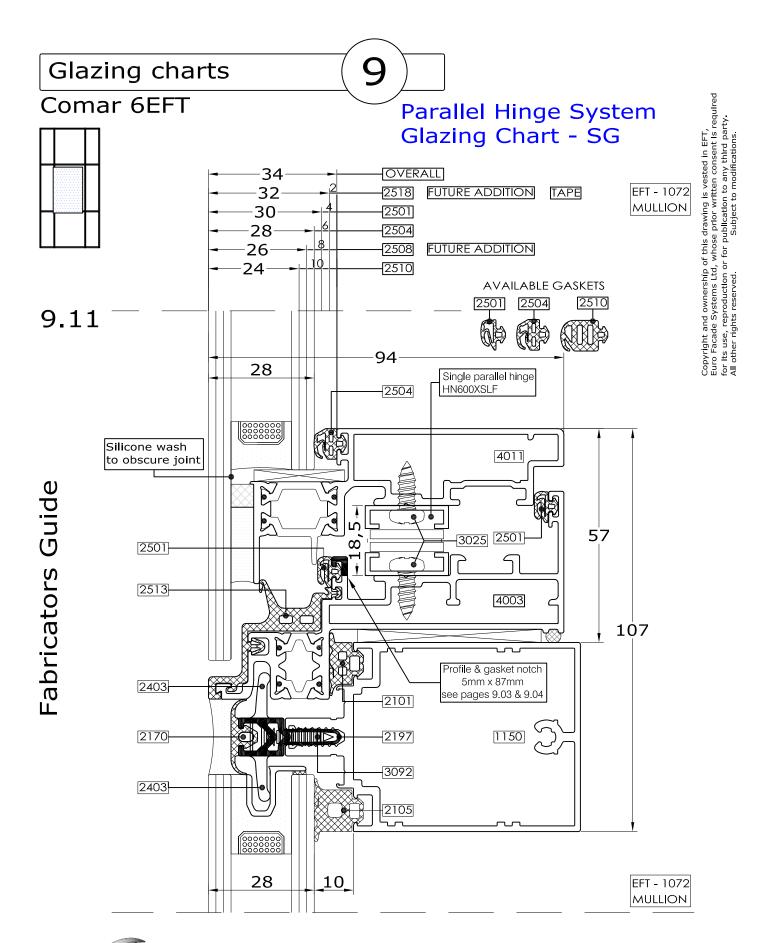
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Parallel Hinge System Twin dual hinge locking





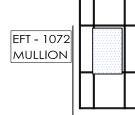




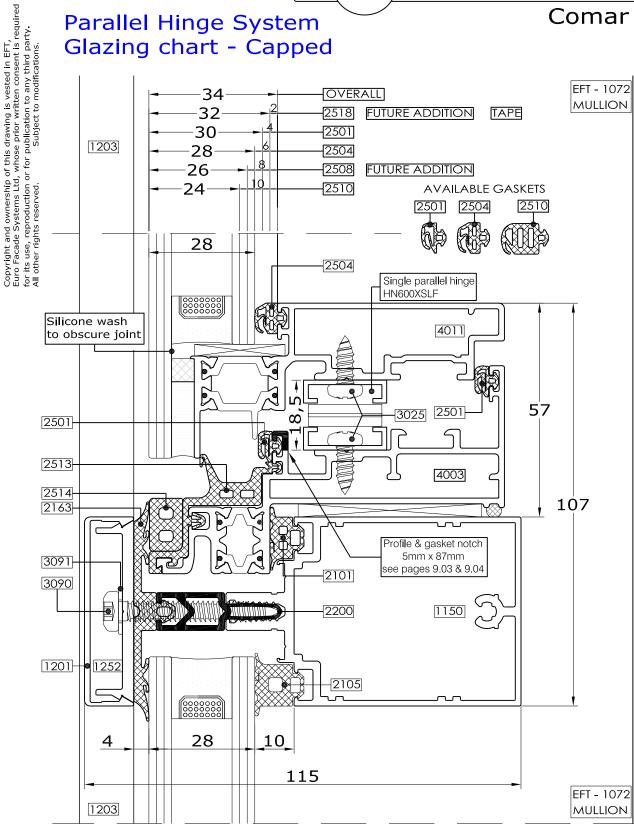
# Glazing charts

## Parallel Hinge System Glazing chart - Capped



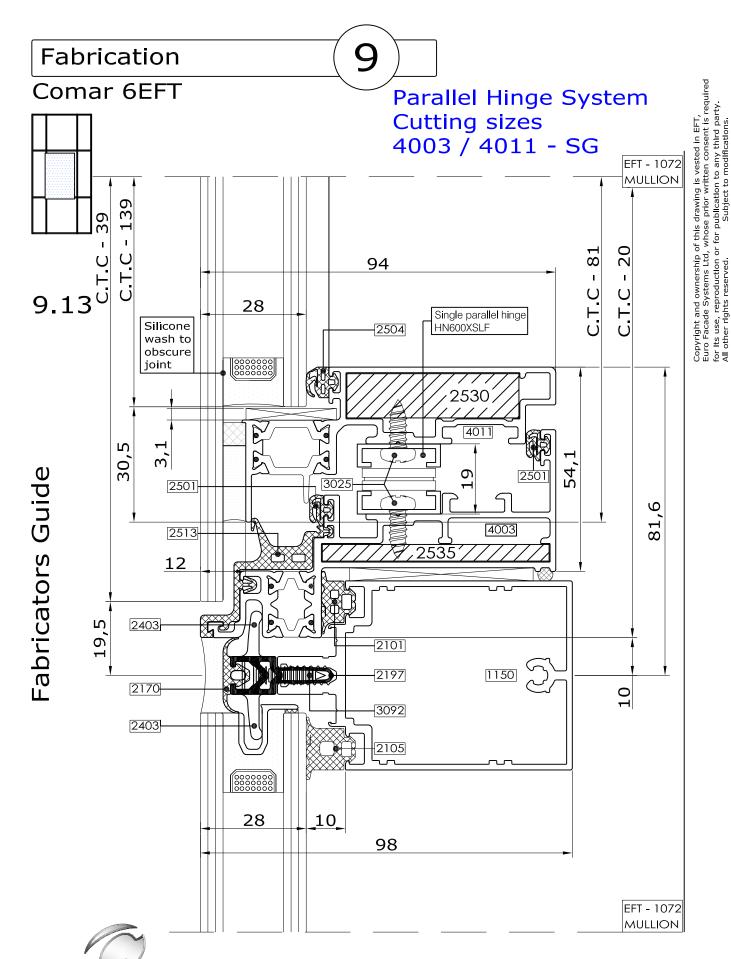


9.12



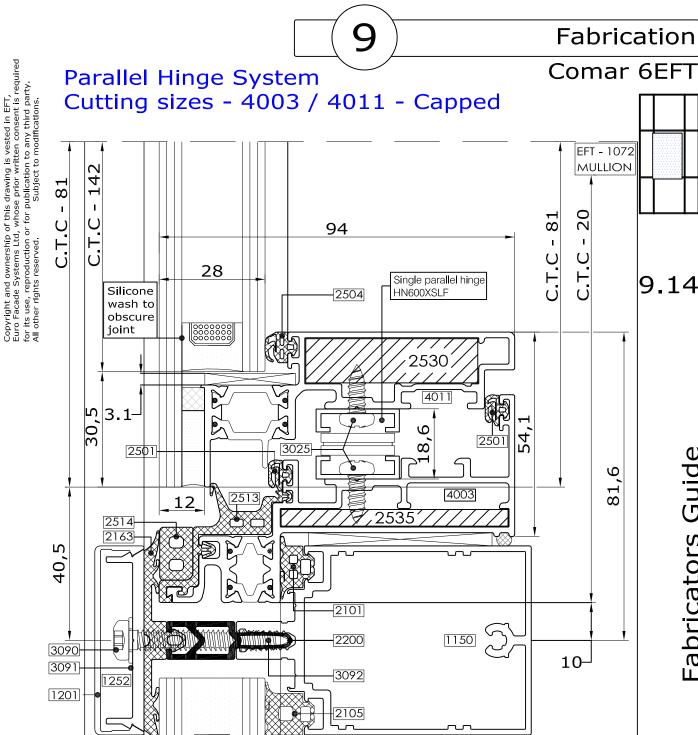
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EFT - 1072 MULLION



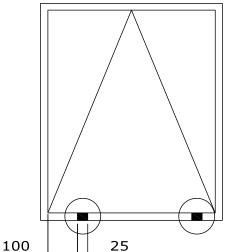
Parallel Hinge System **Drainage & Ventilation** Option 1

**Drainage: Option 1** 

#### Drainage through frame chamber

9.15

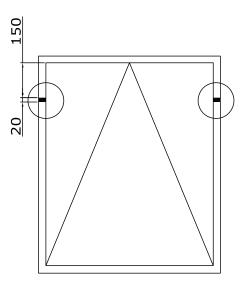
- 1. Drill minimum 8mm CWCT diameter hole into frame.
- 2. Mill slot of 5mm x 25mm CWCT minimum.
- 3. Mill upstands away, 2 x approx. 10mm wide.
- 4. Remove/cut EPDM air seal profile. Length approx. 25mm.
- 5. Drill 8mm CWCT diameter hole for drainage & ventilation.



#### Ventilation

(pressure equalisation)

6. Remove / cut out EPDM seal & EPDM air seal (if applicable) at both sides of window at approx. 150 mm from top. Length: approx. 20 mm



Note: Drainage and ventilation prep. is the same for capped / non capped, top project/side project concealed vents.

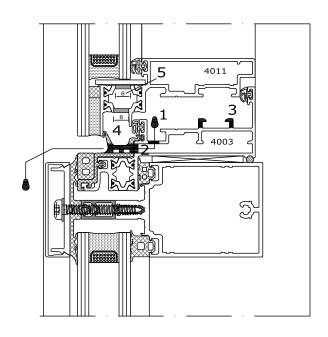


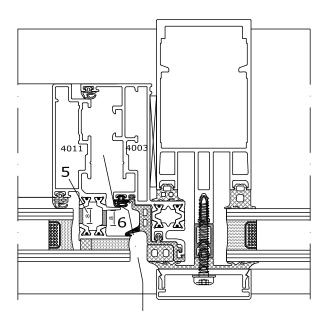
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9.16

# Fabricators Guide

## Parallel Hinge System **Drainage & Ventilation** Option 1

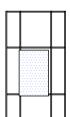




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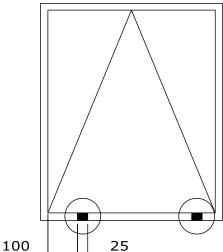
Parallel Hinge System **Drainage & Ventilation** Option 2

**Drainage: Option 2** 

#### Drainage flush at window sill

9.17

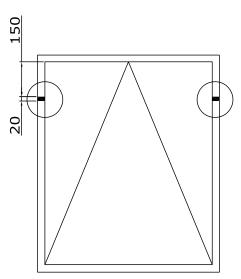
- 1. Mill slot of 5mm x 25mm CWCT minimum.
- 2. Mill upstands away, 2 x approx. 10mm wide.
- 3. Drill 8mm CWCT diameter hole for drainage & ventilation.
- 4. Remove/cut EPDM air seal profile. Length approx. 25mm.



Ventilation

(pressure equalisation)

5. Remove / cut out EPDM seal & EPDM air seal (if applicable) at both sides of window at approx. 150 mm from top. Length: approx. 20 mm



Note: Drainage and ventilation prep. is the same for capped / non capped, top project/side project concealed vents.

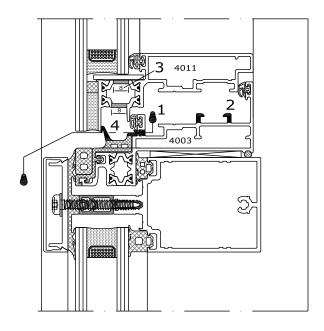


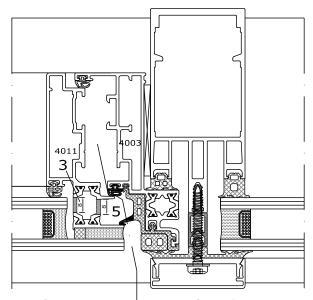
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Date: 01-14

Issue: 04

## Parallel Hinge System Drainage & Ventilation Option 2





Refer to page 8.69 for details

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Issue:04 Date:01-14



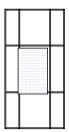
## **Fabrication**

## Comar 6EFT

## Parallel Hinge System Hardware Overview

5001

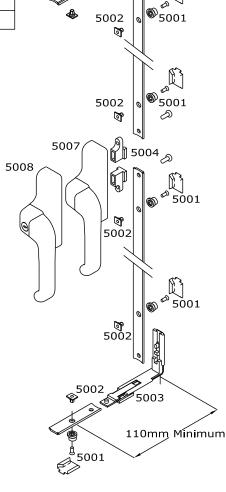
5003

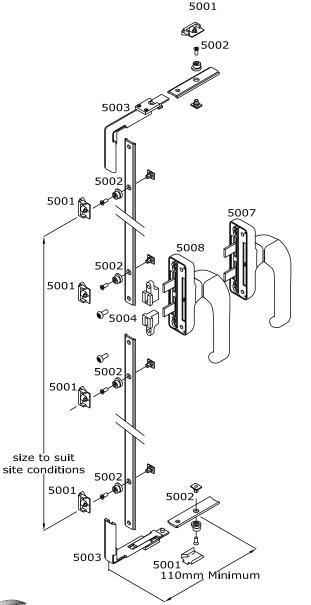


9_	1	9

		Locking	
Part no.	Description	2 points	4 points
1340	Drive rods	see 8.81	see 8.81
5001	Curtain wall striker	2 of	4 of
5002	Adjustable pawl	2 of	4 of
5003	Corner cleat	0 of	2 of
5004	Connection block	1 of	1 of
5007	Handle - non locking	1 of	1 of
5008	Handle - locking	1 of	1 of

		-	
Part no.	Description	2 points	4 points
1340	Drive rods	see 8.81	see 8.81
5001	Curtain wall striker	2 of	4 of
5002	Adjustable pawl	2 of	4 of
5003	Corner cleat	0 of	2 of
5004	Connection block	1 of	1 of
5007	Handle - non locking	1 of	1 of
5008	Handle - locking	1 of	1 of
	F001	•	







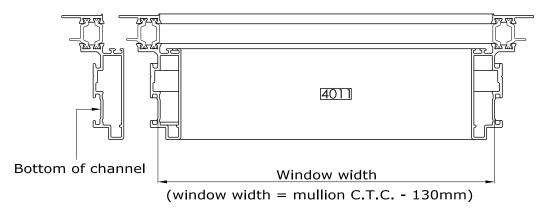
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> Issue: 04 Date: 01-14

# Parallel Hinge System Drive rod preparation

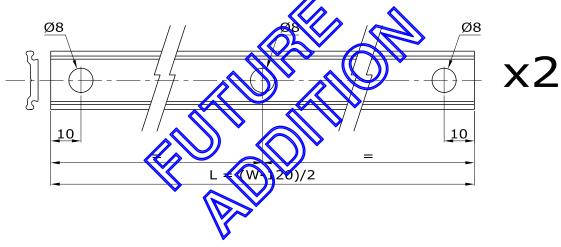
4 POINTS LOCKING: Rod lengths = window width - 124mm/2 2 POINTS LOCKING: Rod lengths = window width - 79mm/2

Window width measured along bottom of channel



9.20

Fabricators Guide



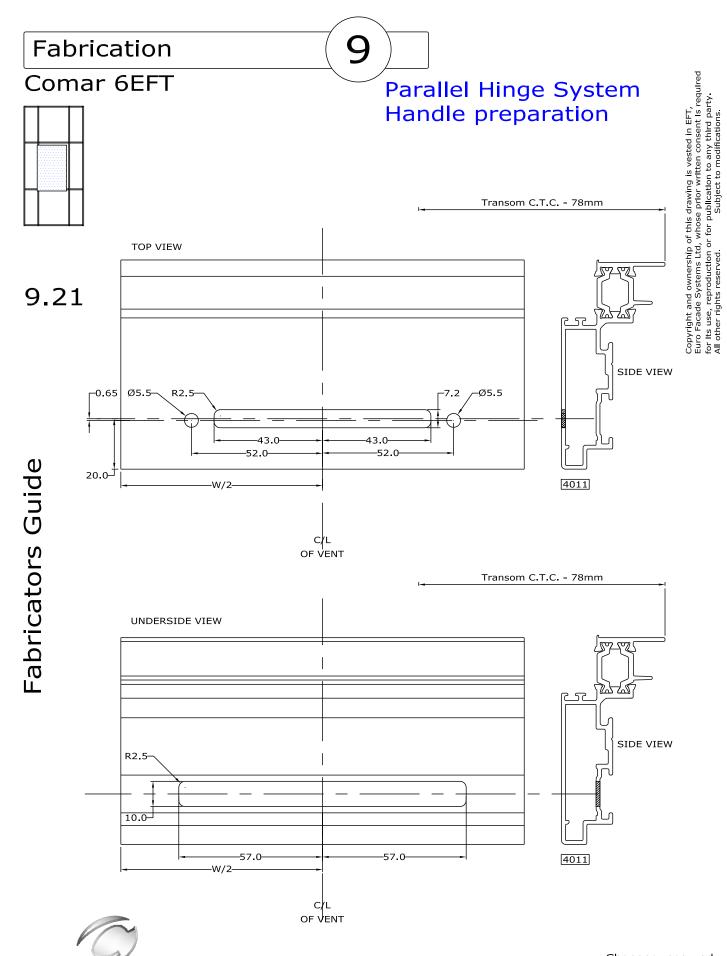
"OR"

Ø8

L = (W-124)/2

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# **Fabrication**

## Comar 6EFT

9.22-9.99

## **Future Additions**

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