RC 2 Masterline 8 Pivot door

Conformity report

1. INTRODUCTION

At request of Reynaers Aluminium NV, represented by Mr. Hoang Liauw, the BBRI carried out the following conformity reports on basis of tests performed in order to determine the burglar resistance of pivot door (Masterline 8) in accordance with EN 1627 (May 2011) and EN 1628:2011+A1 to 1630:2011+A1 (December 2015). This conformity report has the reference CAR-19-075.

2. REFERENCES

2.1 STANDARD REFERENCES

[1] EN 1627 «Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Requirements and classification» - May 2011
[2] EN 1628:2011+A1 «Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Test method for the determination of resistance under static loading» December 2015
[3] EN 1629:2011+A1 «Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Test method for the determination of resistance under dynamic loading» December 2015
[4] EN 1630:2011+A1 «Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Test method for the determination of resistance to manual burglary attempts» December 2015

2.2 TEST REPORTS REFERENCE

[5] Burglar Resistance Test Report CAR 18213, April 2019
Pivot door (1700 mm x 2700 mm, vent dimensions), Masterline 8

C.S.T.C. W.T.C.B. CAR

3. CONFORMITY

After a detailed analysis of the system Masterline 8 (RC 2) and the tested configuration, the following conclusions can be made provided that each element is designed as described in the test report [5] i.e. with same infill composition and the same hardware elements (type, number and maximum distance between the burglar resistant hardware components and between each corner of the element and the adjacent hardware component not bigger than the correspondent biggest distance on the tested element) and closed glass rebates excepted otherwise mentioned in this report.

In these conditions, we could establish that the following pivot doors are burglar resistant in accordance with the class RC 2 of the EN 1627:2011 in the range as defined in this standard and in the test report [5]:

- Opening type: Inward (as tested) or outward opening (Figure 1)
- Infilling: Glass (conform [5]), panel single-sided, panel double-sided (*Figure 2*).

  The aluminium panels are bonded along the perimeter to an anodized or mill finish aluminium surface. The panel is 3mm thick and the glue (2-components MS-polymer, Reynaers article reference 084.9056.04) is spread out over a sectional width of 30-40mm
- The pivot doors can be made of the following profiles (Figure 3 and Figure 4):
  - Vent: with glass infilling: 408.0014.XX (as tested) or 408.0094.XX

    with panel one side vent-covering: 408.0314.XX

    with panel two side vent-covering: 108.0334.XX
  - Changeover: 408.1030.XX
  - Frame: 408.0898.XX (as tested), 408.0798.XX or 408.0598.XX
  - Floor: 408.0860.XX (as tested) or 408.1680.XX
- Vent dimensions: +10% / -20% (as per EN 1627:2011 and [5])
- Pivot axis distance 300 mm (as tested) – 850mm (Figure 1)
- Locks: The pivot door can indifferently be equipped with the following lock system (Figure 5 and Figure 6)
  - 833: 3-point lock with latching deadbolts
  - 833pk: as 833, with anti-panic function (E) and position detection
  - 834: as 833, with motorized unlocking
  - 834pk: as 833, with motorized unlocking, anti-panic function (E) and position detection
  - 855GL: 3-point lock with steel hook bolts

  in the following combinations:

Model	DRN 40*		DRN 65**	
	1790mm	1990mm	1790mm	1990mm
833	061.8523.ZC	061.8135.ZC	061.8137.ZC	-
834	061.8563.ZC	061.8573.ZC	061.8138.ZC	-
833pk	061.8256.ZC	-	061.8257.ZC	-
834pk	061.8258.ZC	-	061.8259.ZC	-
855GL	061.8500.ZC	061.8510.ZC	-	-

With * DRN 40: fits outward opening side

** DRN 65: fits inward opening side

1790 mm and 1990 mm are the length of the front plate of the lock (external dimensions)

- Hinges fixation as shown on (Figure 7 to Figure 9)

In the same conditions, we could also establish that these pivot doors are also burglar resistant in accordance with the class WK 2 of the NEN 5096:2012/A1:2015 but only for the following opening type / lock combinations: 061.8137.ZC + 061.8500.ZC or 061.8137.ZC + 061.8510.ZC.

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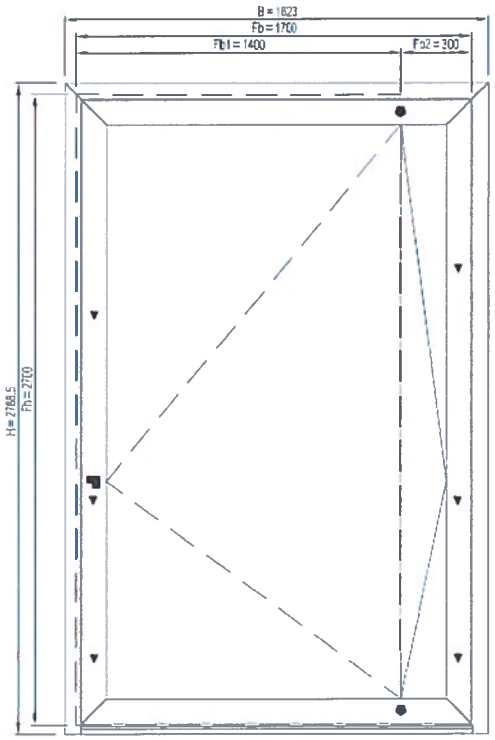
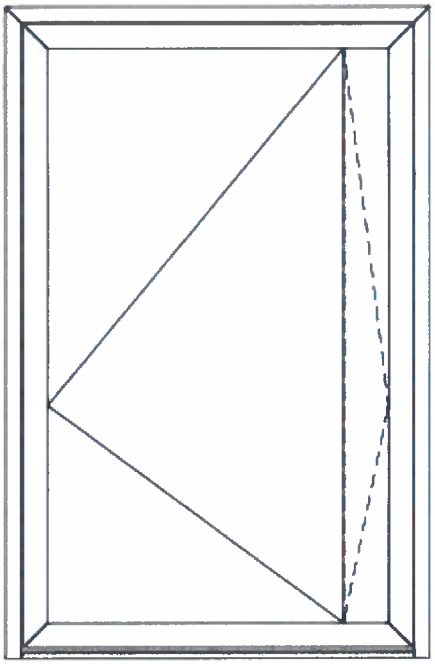
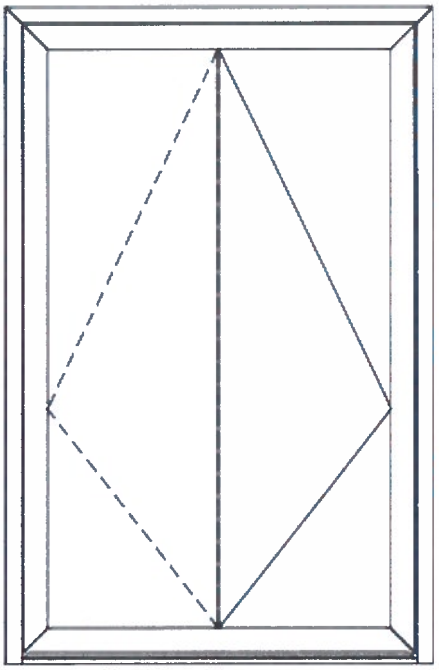


Inward opening – Pivot axis distance 300 mm



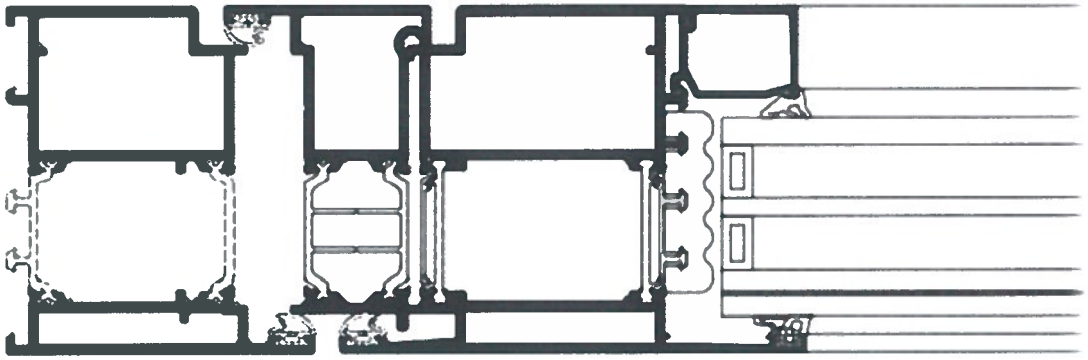
Outward opening – Pivot axis distance 300 mm



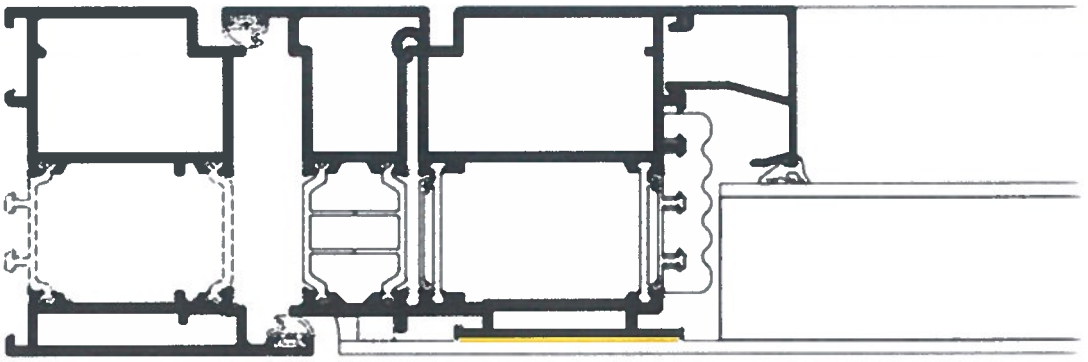
Inward opening – Pivot axis distance 850 mm

Figure 1 – Inward and outward opening – Pivot axis distance from 300 to 850 mm

Glass



Panel one side vent-covering



Panel two side vent-covering

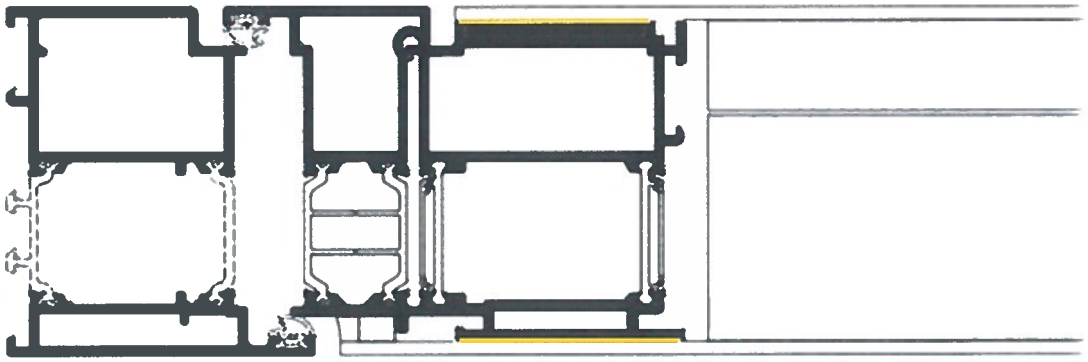
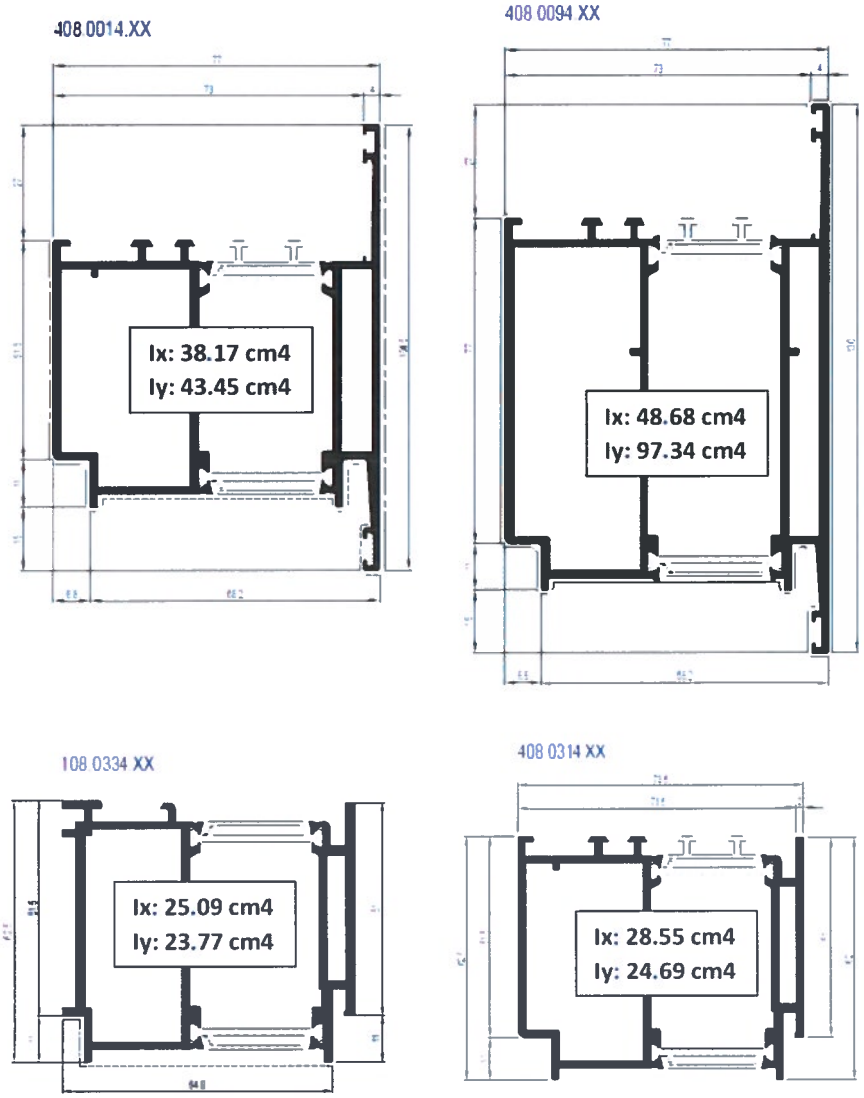


Figure 2 – Infilling types

Vent profiles:



Changeover profile:

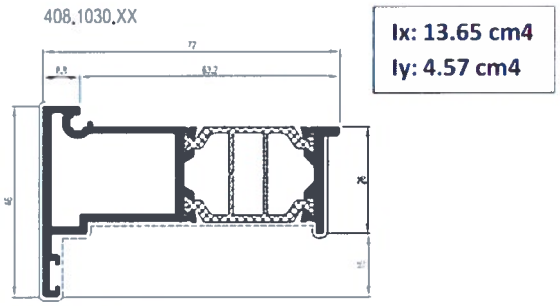
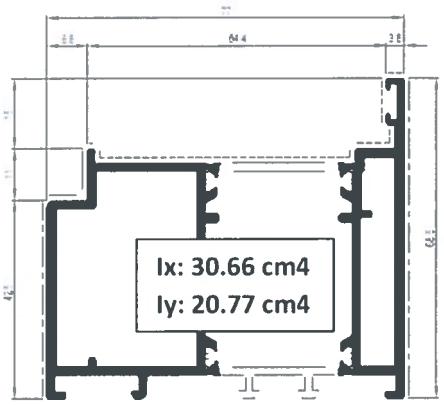


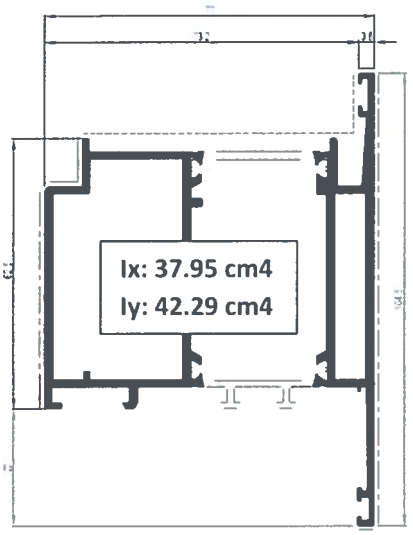
Figure 3 – Profiles

Frame profiles:

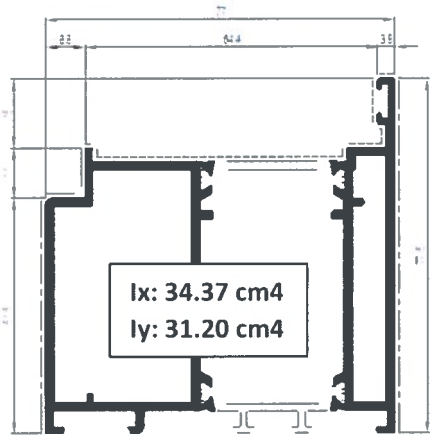
408.0898.XX



408.0798.XX



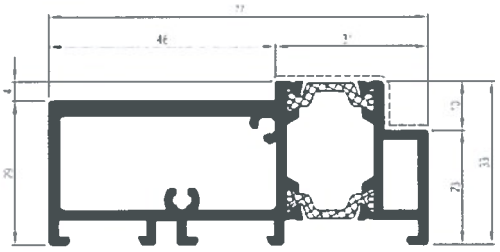
408.0598.XX



Floor profiles:

Ix: 24.83 cm4
Iy: 5.82 cm4

408.0860.XX



Ix: 25.05 cm4
Iy: 4.68 cm4

408.1680.XX

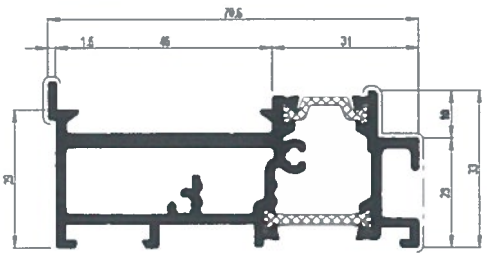


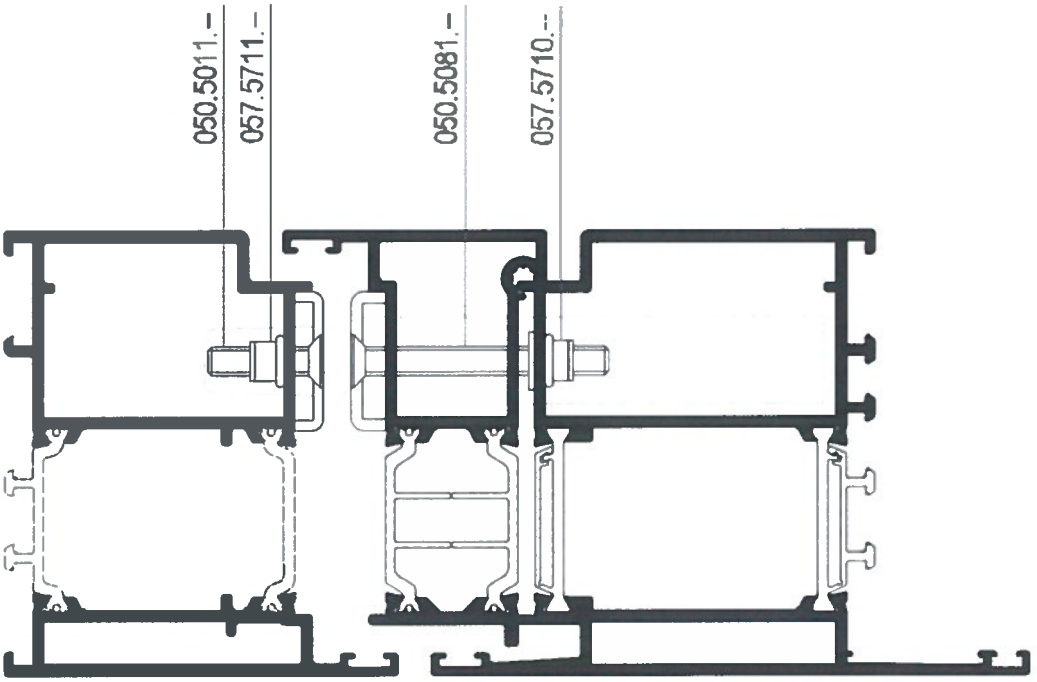
Figure 4 – Profiles (cont'd)

833 (3-point lock with latching deadbolts)

855GL (3-point lock with steel hook bolts)

Figure 5 – Locks

Inward opening side:



Outward opening side:

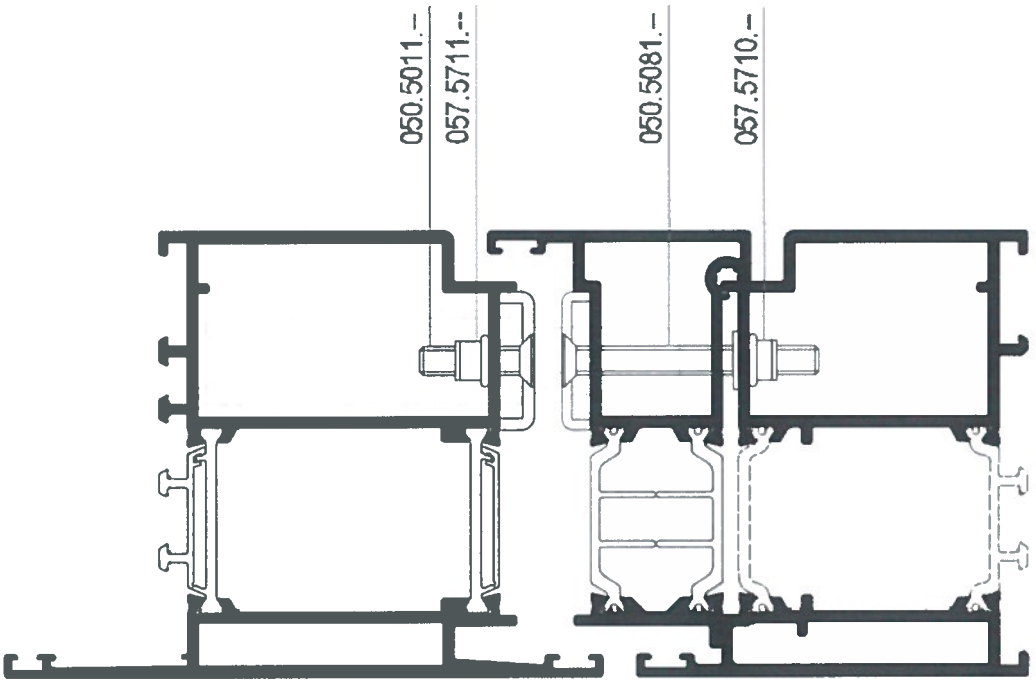


Figure 6 – Lock fixation

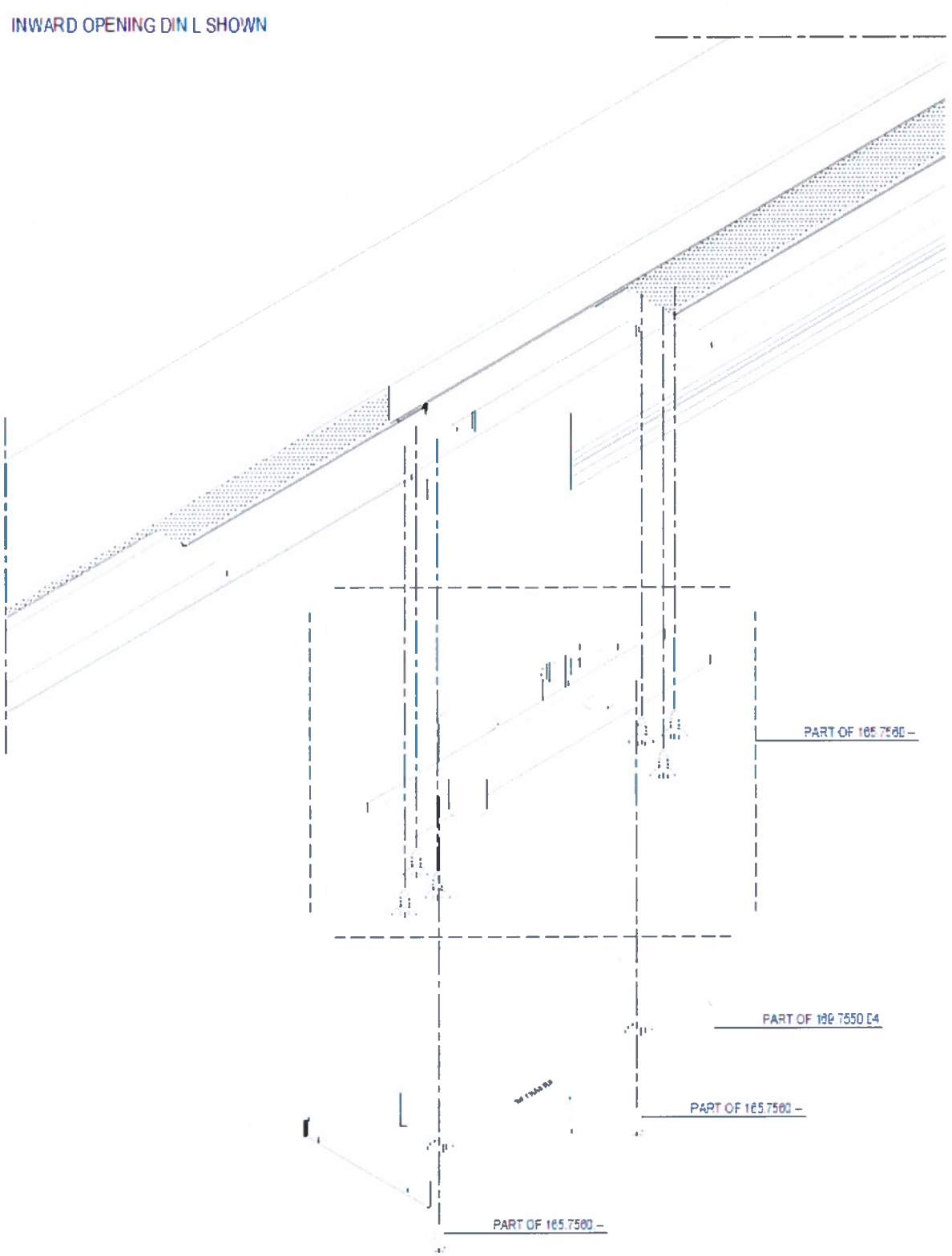


Figure 7 – Hinge fixation

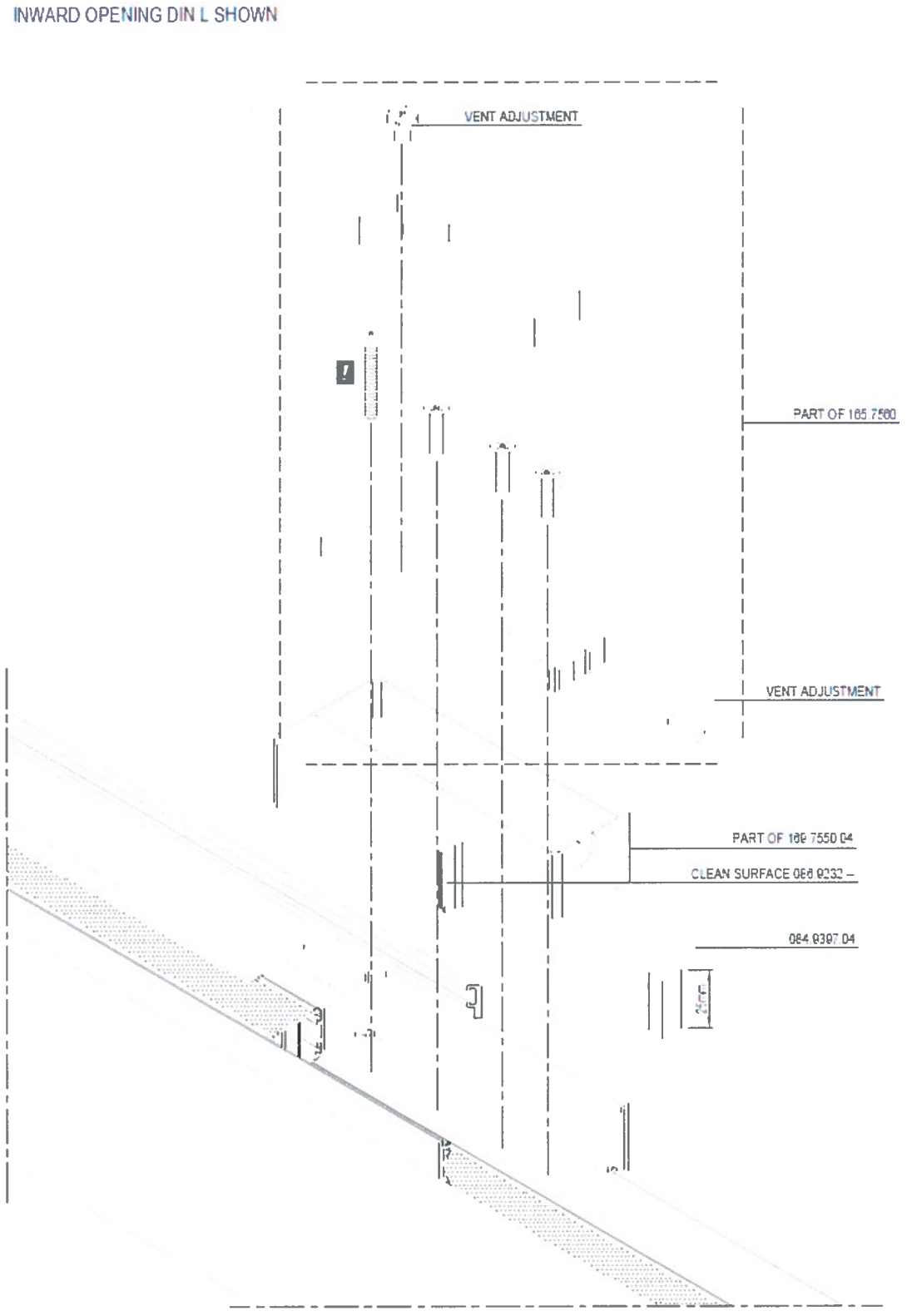


Figure 8 – Hinge fixation (cont'd)

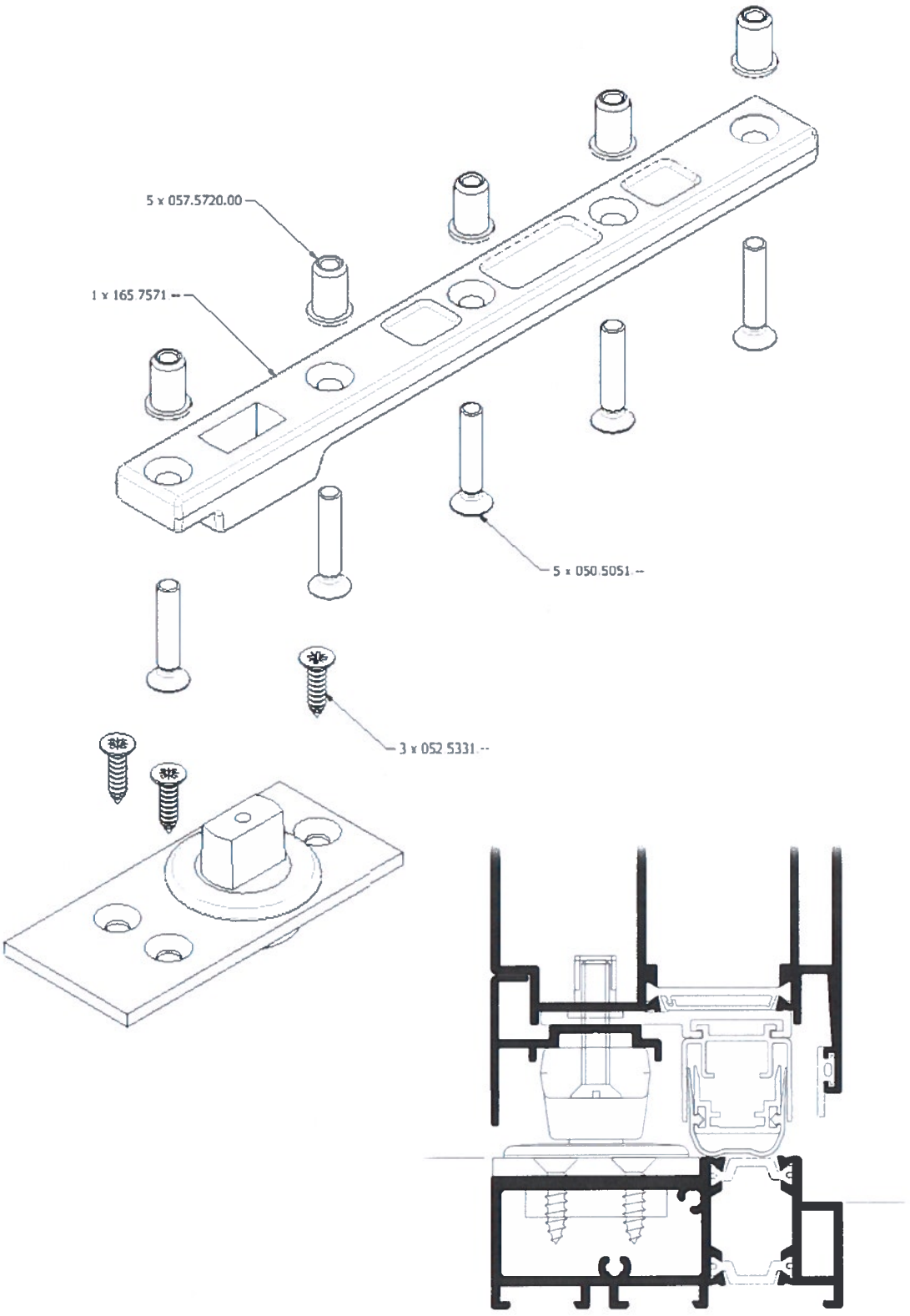


Figure 9 – Hinge fixation (cont'd)