

Masterline 8 AP

ALU axxent PLUS-DK iP RC (RC 3) and
ALU 5200-DK iP RC3 (150 kg) hardware

Conformity report

1. INTRODUCTION

On request of Reynaers Aluminium NV, represented by Mr. Hoang Liauw, the BBRI carried out the following conformity report on basis of tests performed in order to determine the burglar resistance of a combined window (Type Masterline 8 AP, tilt and turn window with side and top lights) in accordance with EN 1627 to 1630 (June 2011). This conformity report has the reference CAR-19-215.

2. REFERENCES

2.1 STANDARD REFERENCES

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

2.2 TEST REPORT REFERENCE

- [5] Burglar Resistance Test Report CAR 17006, August 2017
Combined window (2747 mm x 2927 mm), Masterline 8 AP (CR 3)
- [6] Burglar Resistance Conformity Report CAR 12156, April 2013
CS 77-AP, CS 77-Re/AP, CS 86-HI/AP & CS 104-AP (RC 3)
- [7] Burglar Resistance Conformity Report CAR 17318, November 2018
Masterline 10 (RC 3)
- [8] Burglar Resistance Conformity Report CAR 15072, November 2015
CS 77-AP & Masterline 8 AP (RC 3)



3. CONFORMITY

After a detailed analysis of the hardware systems ALU axxent PLUS-DK iP RC (RC 3) and ALU 5200-DK iP RC3 (150 kg) and a comparison with the tested configuration, the following conclusions can be made provided that each element is designed as described in the test reports [5] and in the conformity reports [6] to [8] i.e. with same glazing composition and fixation principle, 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 particular, the hardware elements could indifferently be of type

- Alu DK-200 RC3 in the limit of the maximum authorized element weight. The number of locking points will at least be as mentioned in the test report [5] and at least be as shown in Table 1 for the tilt and turn and turn and tilt windows. The maximal height of the leaf could nevertheless be increased from 2400 mm to 2800 mm if an additional locking point is installed on each of its vertical side (i.e. 2 additional locking points). Figure 1 illustrates the number and localisation of the locking points in the case of a tilt and turn window

ALU-DK200 RC3

	FB ≤ 1200 mm	FB > 1200 mm
1100 mm < FH ≤ 1200 mm	12 locking points	14 locking points
1200 mm < FH ≤ 2200 mm	14 locking points	16 locking points
2200 mm < FH ≤ 2800 mm	16 locking points	18 locking points

with FH : height and FB : width

Table 1 – Alu DK-200 RC3 - Minimal number of locking points

- ALU axxent PLUS-DK iP RC 3 and ALU 5200-DK iP RC3 (150 kg) in the limit of the maximum authorized element weight. The number of locking points will at least be as shown in Table 2 for the tilt and turn and turn and tilt windows¹. Figure 2 to Figure 7 and Figure 8 to Figure 13 illustrate the number and localisation of the locking points in the case of a tilt and turn window respectively in the limits of Table 2 for ALU axxent PLUS-DK iP RC 3 and ALU 5200-DK iP RC3 (150 kg). The maximal height of the leaf could nevertheless be increased from 2400 mm to 2800 mm if an additional locking point is installed on each of its vertical side (i.e. 2 additional locking points).

¹ The functionalities 'turn' and 'tilt' are respectively functionalities 'turn and tilt' with blocked tilt function and 'tilt and turn' with blocked turn function



ALU-axxent PLUS-DK IP RC3

	FB ≥ 750 mm	1200 mm < FB ≤ 1600 mm
980 mm < FH ≤ 1200 mm	12 locking points	14 locking points
1200 mm < FH ≤ 2200 mm	14 locking points	16 locking points
2200 mm < FH ≤ 2400 mm	16 locking points	18 locking points

ALU 5200-DK ip RC3 (150 kg) RC3

	FB ≤ 1200 mm	FB > 1200 mm
980 mm < FH ≤ 1200 mm	12 locking points	14 locking points
1200 mm < FH ≤ 2200 mm	14 locking points	16 locking points
2200 mm < FH ≤ 2400 mm	16 locking points	18 locking points

with FH : height and FB : width

Table 2 – ALU axxent PLUS-DK ip RC (RC 3), ALU 5200-DK ip RC3 (150 kg) - Minimal number of locking points

In these conditions, we could establish that the fixed, tilt and turn, turn and tilt, side hung and bottom hung windows (inward opening) made of the CS 77-AP, CS 77-Re/AP, CS 86-HI/AP and CS 104-AP, Masterline 8 AP and Masterline 10 profiles are burglar resistant in accordance with the class RC 3 of the EN 1627:2011 in the range as defined in this standard.

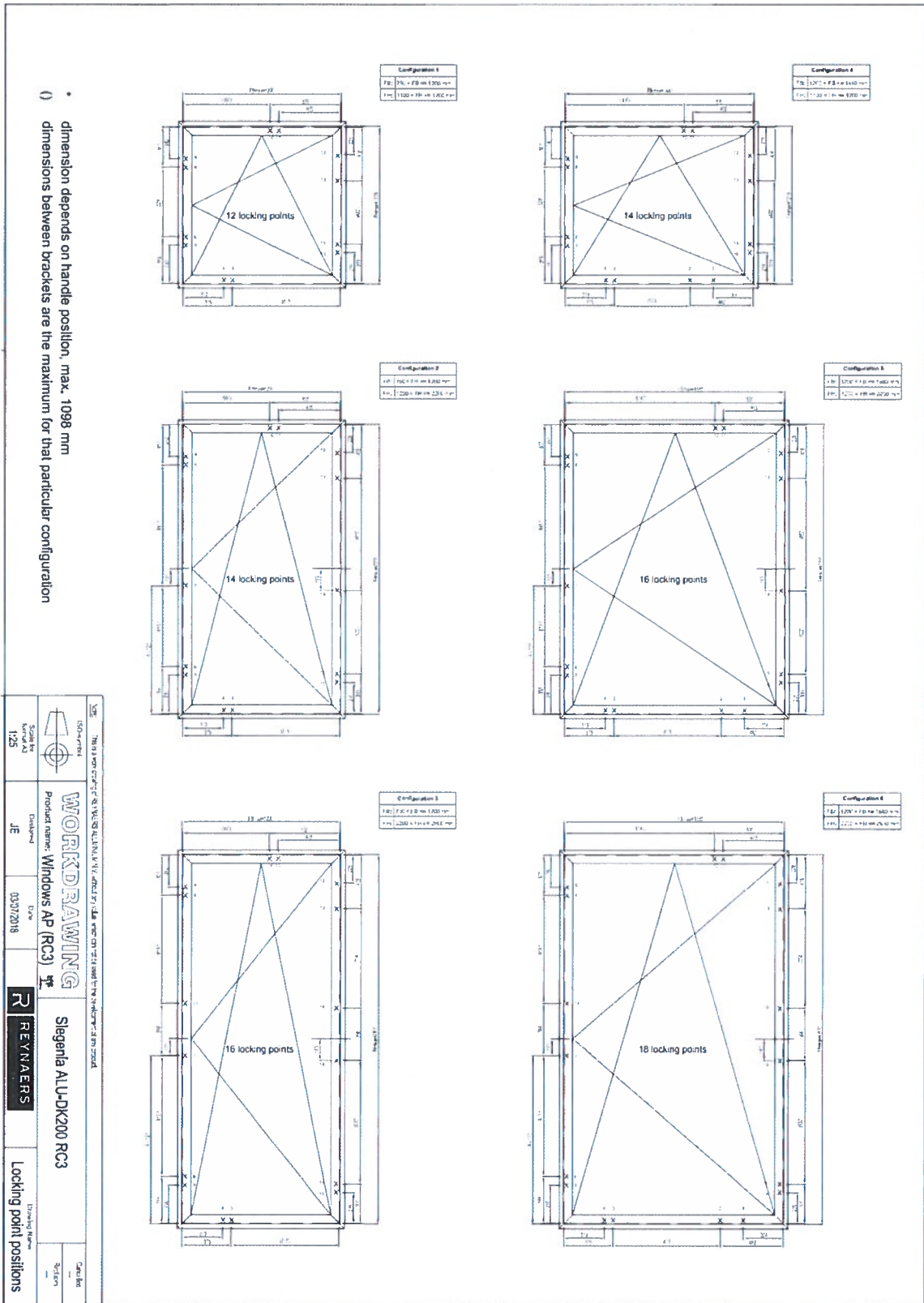


Figure 1 – Alu-DK200 RC 3 - Number and localisation of the locking points

ALU axxent PLUS-DK iP RC3 Formaat I - Kozijnmaten

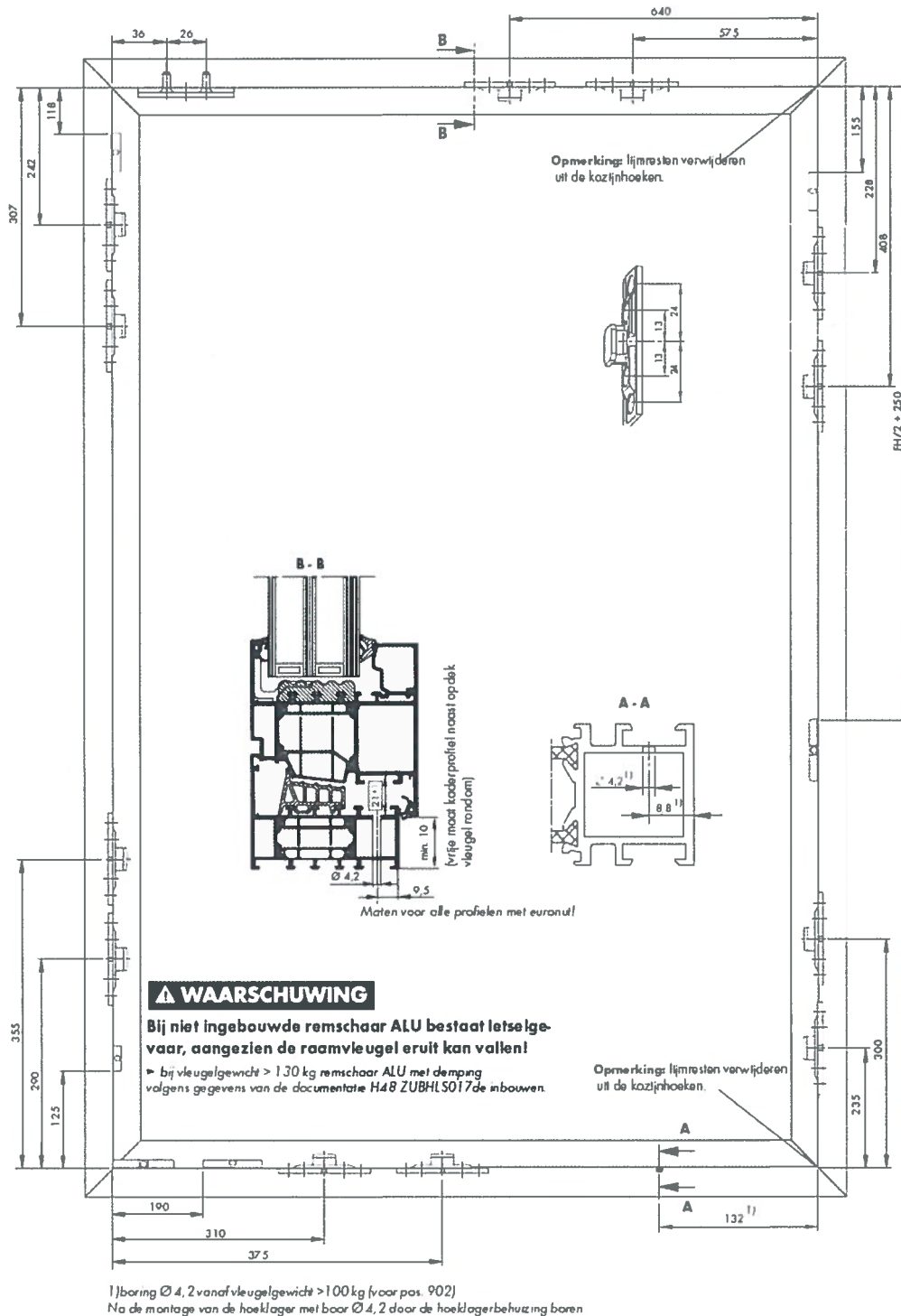
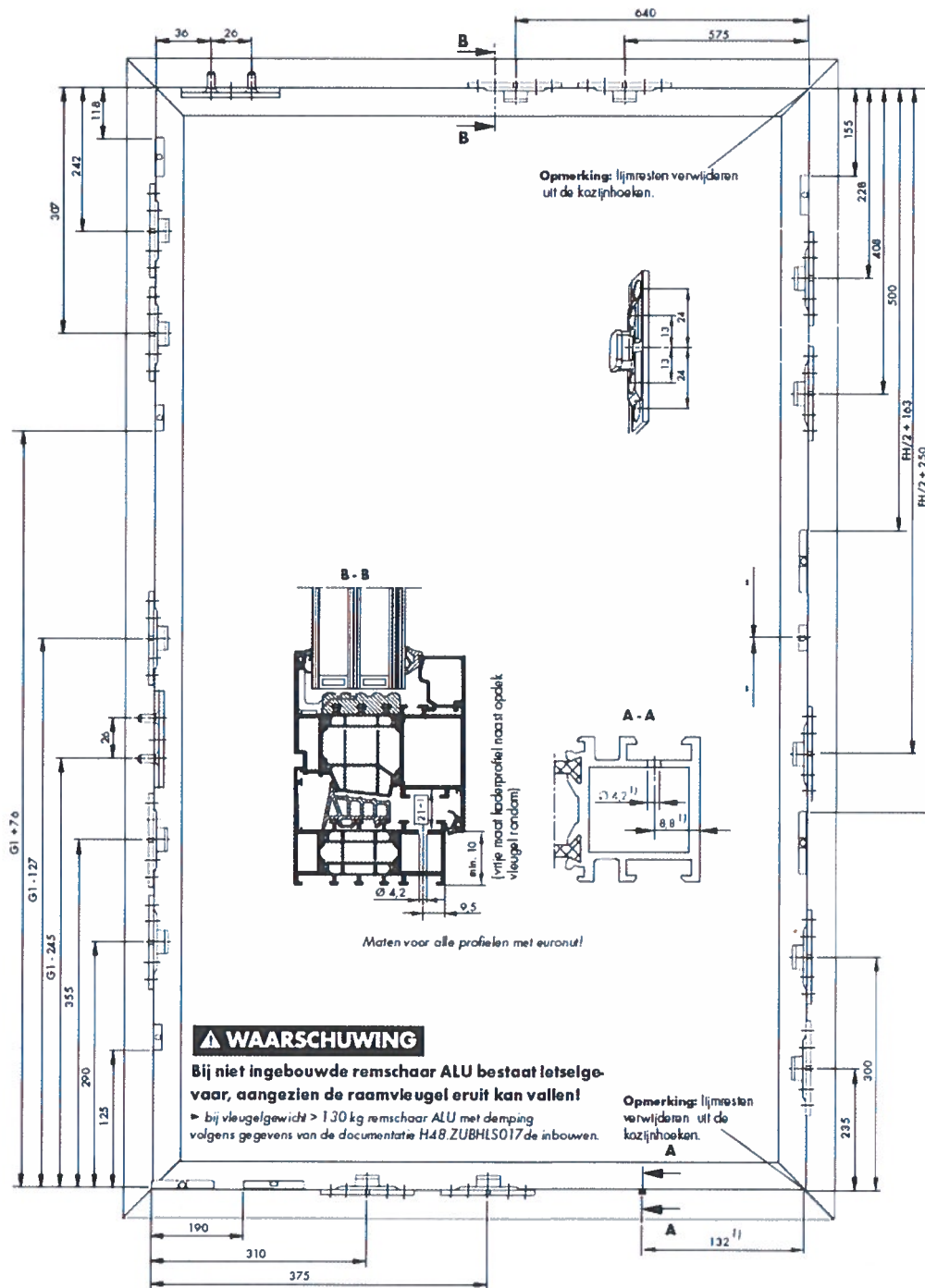


Figure 2 – ALU axxent PLUS-DK iP RC 3 - 750 mm ≤ FB ≤ 1200 mm and 980 mm ≤ FH ≤ 1200 mm - Number and localisation of the locking points

ALU axxent PLUS-DK iP RC3 Formaat II - Kozijnmaten



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Figure 3 – ALU axxent PLUS-DK iP RC 3 - $750 \text{ mm} \leq FB \leq 1200 \text{ mm}$ and $1200 \text{ mm} < FH \leq 2200 \text{ mm}$ - Number and localisation of the locking points



ALU axxent PLUS-DK iP RC3 Formaat III - Kozijnmaten

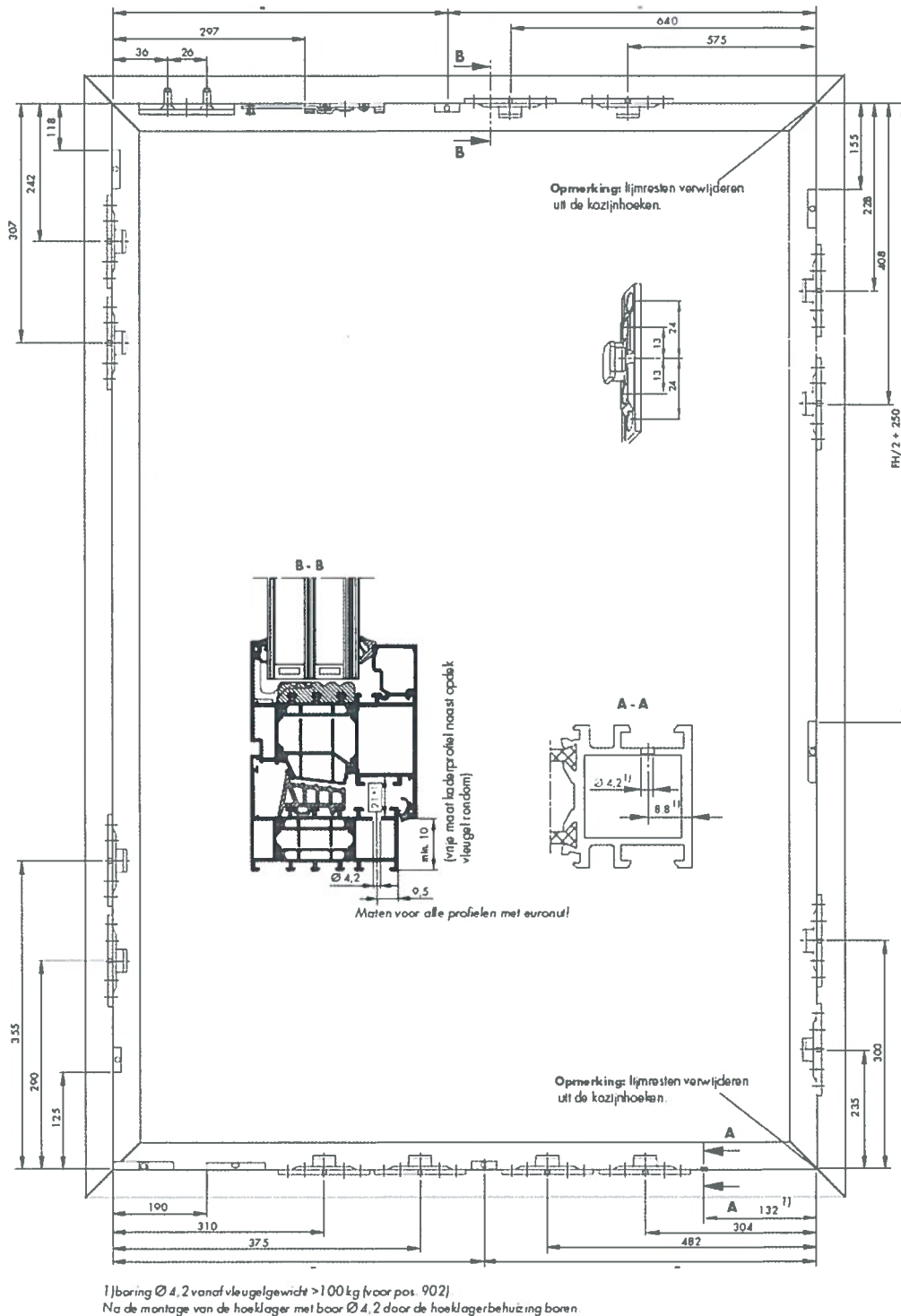
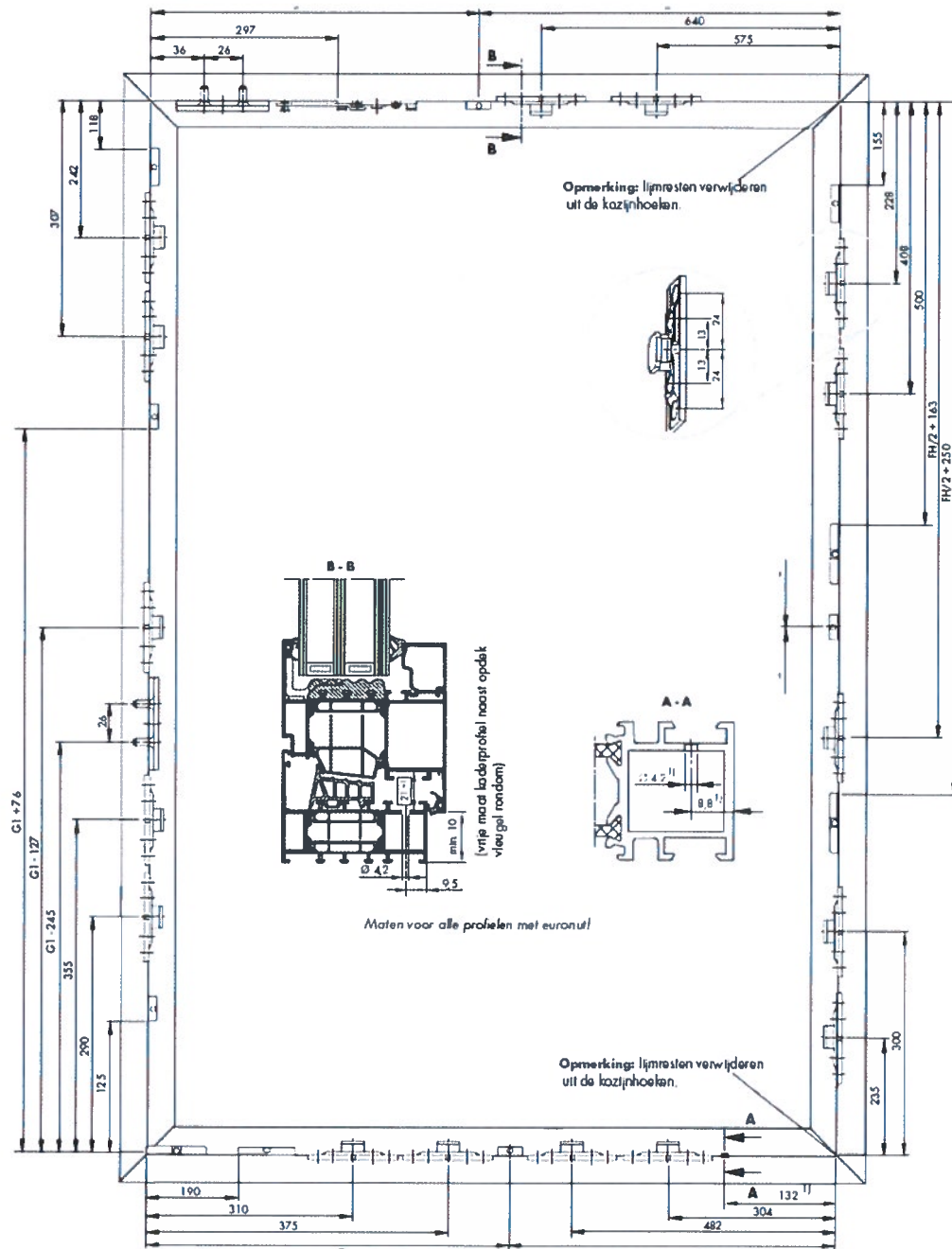


Figure 4 – ALU axxent PLUS-DK iP RC 3 - 1200 mm < FB ≤ 1600 mm and 980 mm ≤ FH ≤ 1200 mm - Number and localisation of the locking points

ALU axxent PLUS-DK iP RC3 Formaat IV - Kozijnmaten



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Figure 5 – ALU axxent PLUS-DK iP RC 3 - 1200 mm < FB ≤ 1600 mm and 1200 mm < FH ≤ 2200 mm -
 Number and localisation of the locking points



ALU axxent PLUS-DK iP RC3 Formaat V - Kozijnmaten

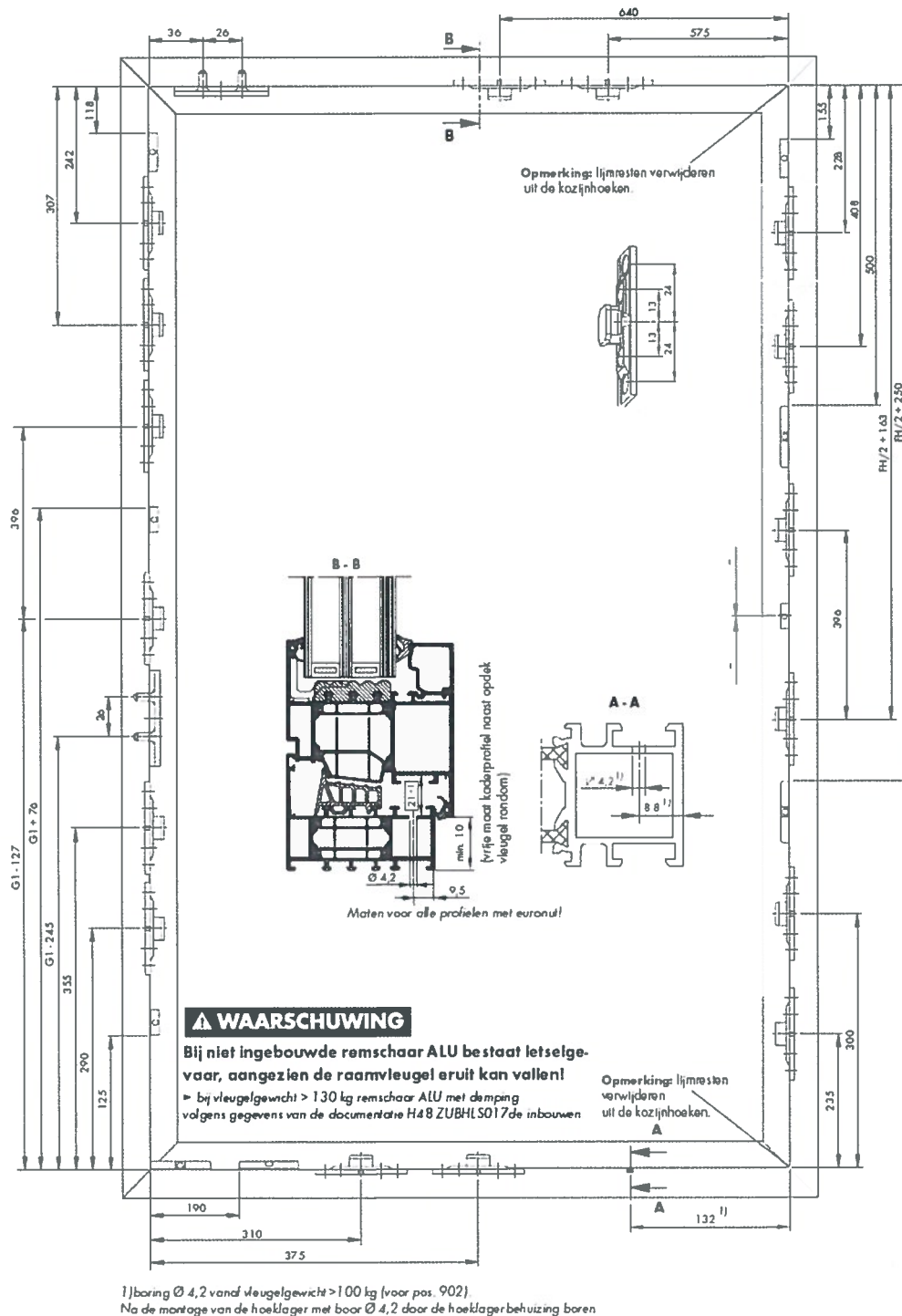
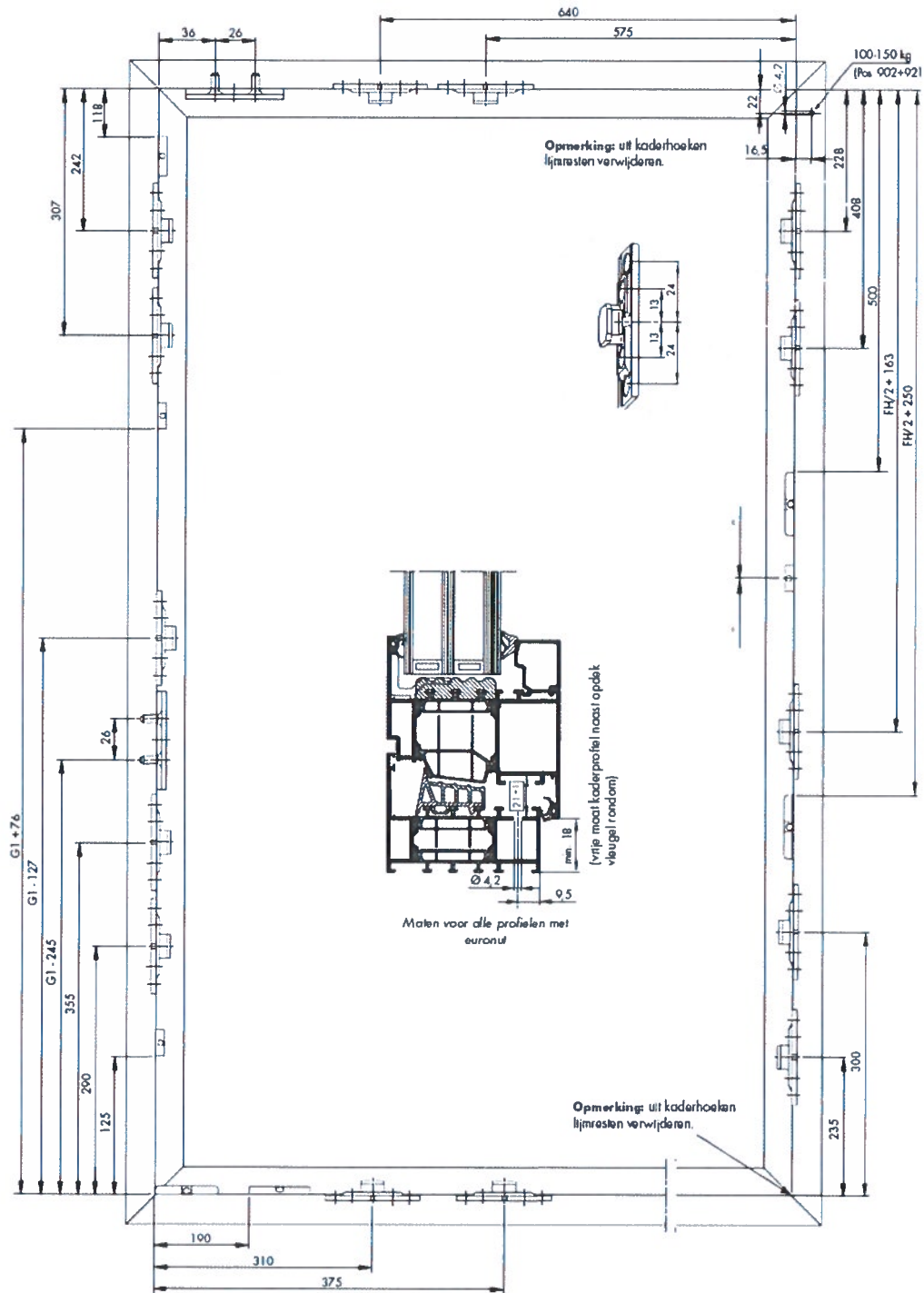


Figure 6 – ALU axxent PLUS-DK iP RC 3 - $750 \text{ mm} \leq FB \leq 1200 \text{ mm}$ and $2200 \text{ mm} < FH \leq 2400 \text{ mm}$ - Number and localisation of the locking points

ALU 5200-DK iP RC3 (150 kg) Formaat II - kozijnmaten



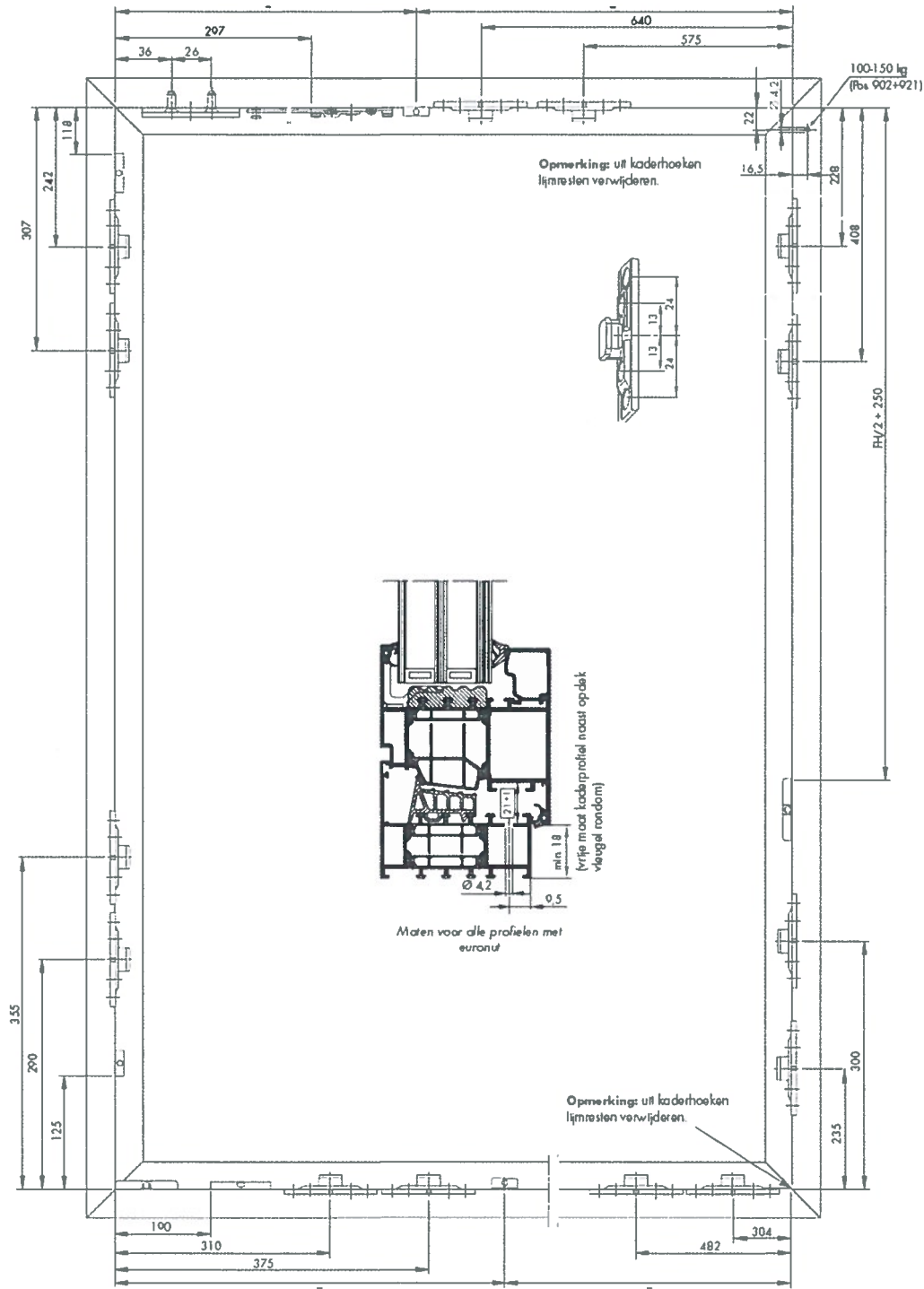
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Figure 9 – ALU 5200-DK iP RC3 (150 kg) - $750 \text{ mm} \leq \text{FB} \leq 1200 \text{ mm}$ and $1200 \text{ mm} < \text{FH} \leq 2200 \text{ mm}$ - Number and localisation of the locking points

<p>C.S.T.C.  W.T.C.B.</p>	<p>GSFM</p>	
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ALU 5200-DK iP RC3 (150 kg) Formaat III - kozijnmaten

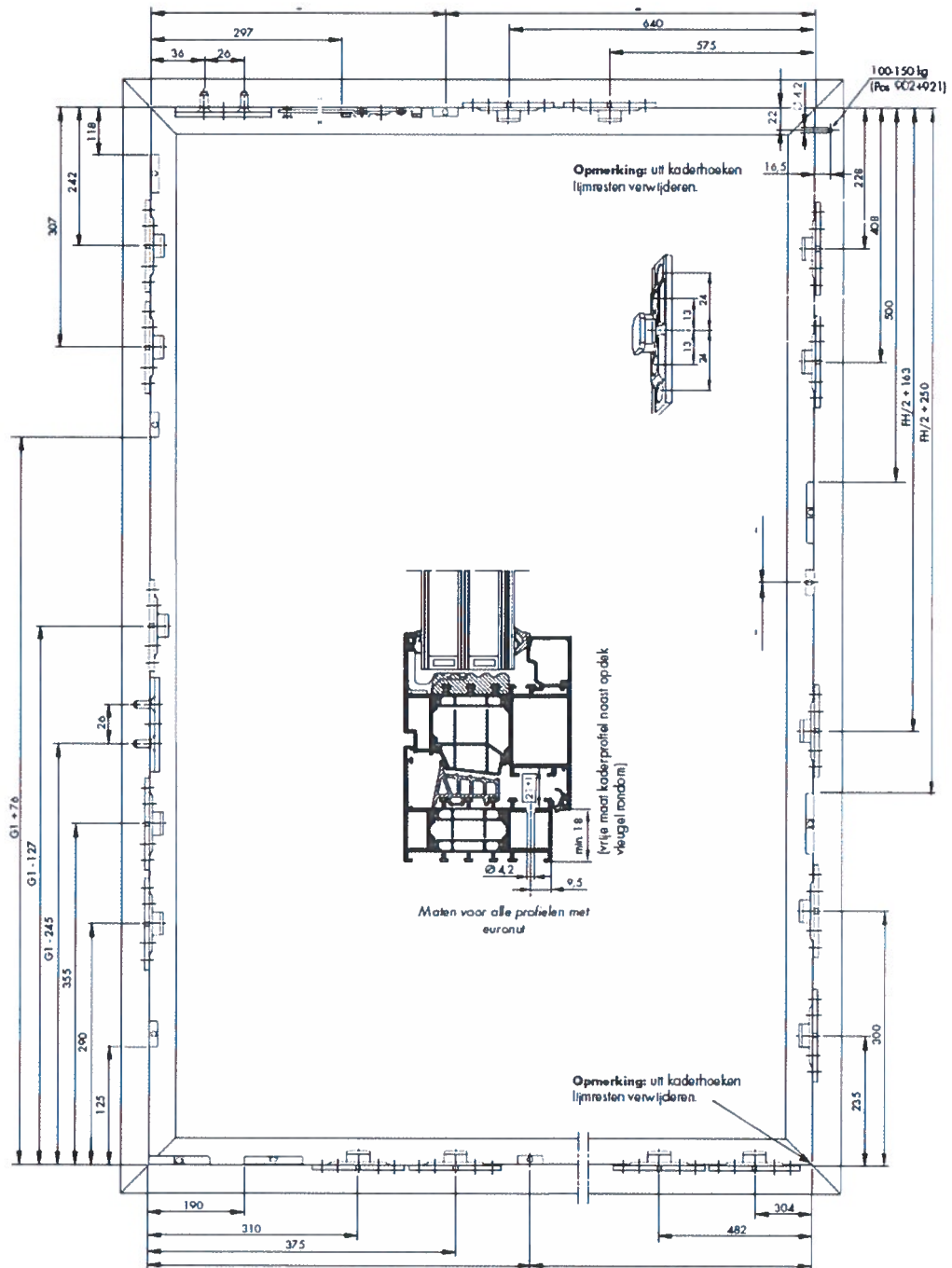


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Figure 10 – ALU 5200-DK iP RC3 (150 kg) - 1200 mm < FB ≤ 1600 mm and 980 mm ≤ FH ≤ 1200 mm - Number and localisation of the locking points



ALU 5200-DK iP RC3 (150 kg) Formaat IV - kozijnmaten



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Figure 11 – ALU 5200-DK iP RC3 (150 kg) - 1200 mm < FB ≤ 1600 mm and 1200 mm < FH ≤ 2200 mm - Number and localisation of the locking points



