CS 77-AP, CS 77-Re/AP, CS 86-HI/AP & CS 104-AP (RC2)

Conformity report

1. INTRODUCTION

On request of Reynaers Aluminium NV, represented by Mrs. Sara De Herdt, the BBRI carried out the following conformity report on basis of tests performed in order to determine the burglar resistance of a tilt and turn window (Type CS 77-AP) in accordance with NBN EN 1627 to 1630 (June 2011). This conformity report has the reference CAR 12233.

2. REFERENCES

2.1 STANDARD REFERENCES


2.2 TEST REPORTS REFERENCE

  Tilt and turn window (1668 mm x 1868 mm), CS 77-AP (RC2)

3. CONFORMITY

After a detailed analysis of the four systems CA 77-AP, CS 77-Re/AP, CS 86-HI/AP and CS 104-AP (RC3) and a comparison with 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 the same hardware elements (type - Figure 6, 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 elements - Figure 9) and glazing composition. In particular, the hardware elements could indifferently be of type LM 4200 DK (Figure 6), LM 4200 DK iP RC2 130 kg (Figure 7) or Axxent-DK iP RC2 100 kg (Figure 8) in the limit of the maximum authorized element weight. The number of locking points will at least be as shown in Table 1. Figure 9 illustrates the number and localisation of the locking points in the case of a tilt and turn window.
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 profiles (Figure 1 and Figure 5) 008.3112.XX or 008.3121.XX (vent) and 008.3183.XX, 008.3125.XX, 008.3140.XX, 008.1455.XX, 008.1456.XX or 008.3452.XX (outer frame) are burglar resistant in accordance with the class 2 of the EN 1627:2011 in the range as defined on Figure 12.

- The fixed, tilt and turn, turn and tilt, side hung and bottom hung windows (inward opening) made of the CS 77-Re/AP profiles (Figure 2 and Figure 5) 008.1455.XX (vent) and 008.3216.XX or 008.3140.XX (outer frame) are also burglar resistant in accordance with the class 2 of the EN 1627:2011 in the range as defined on Figure 12.

- The fixed, tilt and turn, turn and tilt, side hung and bottom hung windows (inward opening) made of the CS 86-HI/AP profiles (Figure 3 and Figure 5) 108.0112.XX or 108.0121.XX (vent) and 108.0183.XXX, 108.0125.XX, 108.0140.XX or 108.0142.XX (outer frame) are also burglar resistant in accordance with the class 2 of the EN 1627:2011 in the range as defined on Figure 12.

- The fixed, tilt and turn, turn and tilt, side hung and bottom hung windows (inward opening) made of the CS 104-AP profiles (Figure 4 and Figure 5) 208.1112.XX (vent) and 208.0183.XX or 208.0125.XX are also burglar resistant in accordance with the class 2 of the EN 1627:2011 in the range as defined on Figure 12.

- For each configuration, the glazing fixation system consists in the bonding underneath the glazing plate as in [5].

- The leafs can either be equipped with a standard burglar resistant locking gear (handle with fork) as tested (see [5]) or with an internal gear box with drill protection plate (Figure 10 and Figure 11).
Figure 1 – Overview window profiles – CS 77-AP
Figure 2 – Overview window profiles – CS 77-Re/AP
Figure 3 – Overview window profiles – CS 86-HI/AP
Figure 4 – Overview window profiles – CS 104-AP
**Figure 5** – overview glazing beads - CS 77-/86-/104-AP
REYNAERS
Schubstangenmaße für RC 2 und SKG
LM 4200 DK
FH 950 bis 1800 mm

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Figure 6 – Hardware – LM 4200 DK RC 2
With \( G \) = handle height, \( G1 \) = underside of the leaf to handle height, \( G2 \) = top of the leaf to handle height
- \( 733 < G2 < 1466 \) (mm)
- \( \frac{1}{3}FH < G < \frac{2}{3}FH \)

*Figure 7 – Hardware – LM 4200 DK iP RC 2 130 kg*
With \( G = \text{handle height}, G1 = \text{underside of the leaf to handle height}, G2 = \text{top of the leaf to handle height} \\
733 < G2 < 1466 \text{ (mm)} \\
\frac{1}{3} \times FH < G < \frac{2}{3} \times FH \)

Figure 8 – Hardware – Axxent DK iP RC 2 100 kg
Figure 9 – Number and localisation of the locking points
<table>
<thead>
<tr>
<th align="left">Tested configuration: Standard burglar resistant locking gear (handle with fork)</th>
<th align="left">Internal gear box with drill protection plate</th>
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<td align="left">Art. 060.7933.--</td>
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Figure 10 – Hardware – Handle with fork and mortise lock
Figure 11 – Hardware – Mortise lock – Drill protection plate – Details
Figure 12 – Maximum admissible sizes

FG < 130KG