

BBRI
Belgian Building Research Institute

2020/02/10
DE-CAR-0241
CAR-19-259-03

**Burglar Resistance of window louvres type 424 RC2
Conformity report**

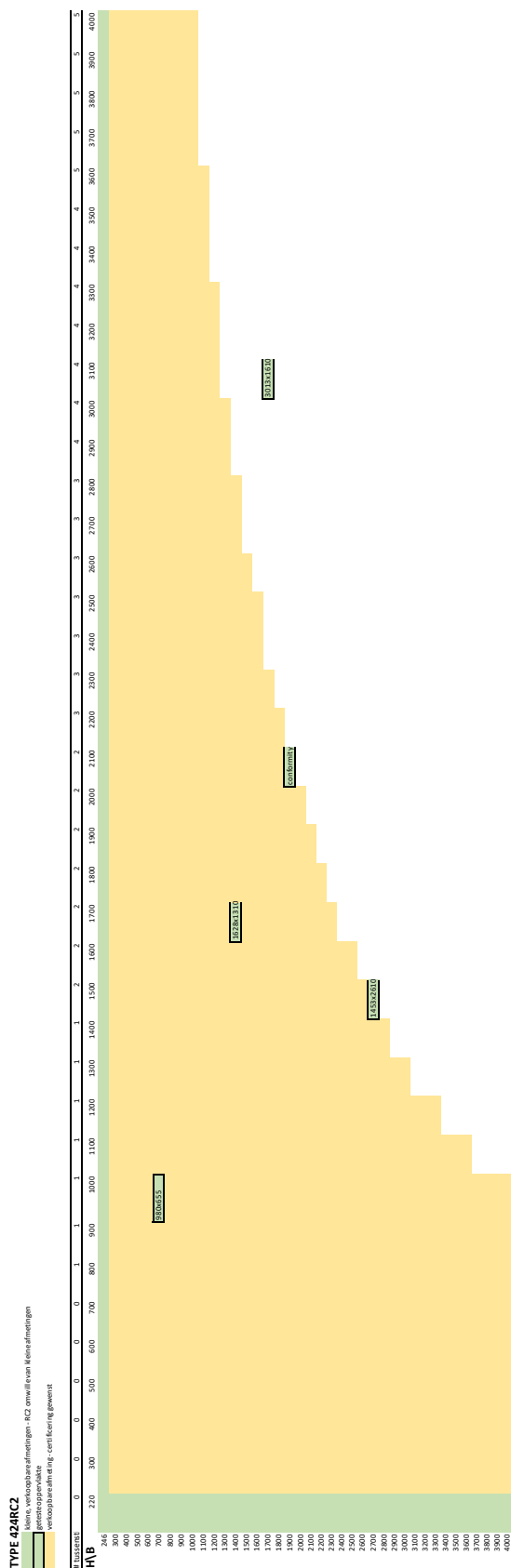


Figure 3 - Burglar resistant window louvre 424 RC2 - Dimensions range

Burglar Resistance of window louvres type 424 RC2

Conformity report

1. INTRODUCTION

At request of Renson Ventilation NV, represented by Mr. Ludo Ghijs, the BBRI carried out the following conformity reports on basis of tests performed in order to determine the burglar resistance of several window louvres type 424 RC2 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-19-259-03.

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 15064/1-EN, April 2015
Window louvre Renson 424 RC2 (980mm x 655mm)
- [6] Burglar Resistance Test Report CAR 16136/1-Bis-EN, June 2016
Window louvre Renson 424 RC2 (1628mm x 1310mm)
- [7] Burglar Resistance Test Report CAR 16136/2-Bis-EN, June 2016
Window louvre Renson 424 RC2 (1453mm x 2610mm)



- [8] Burglar Resistance Test Report CAR 16183/1-Bis-EN, September 2019
Window louvre Renson 424 RC2 (3013mm x 1610mm)
- [9] Burglar Resistance Test Report CAR-19-259-01, February 2020
Window louvre Renson 424 RC2 (544mm x 394mm)

2.3 OTHER REFERENCE

- [10] E-mail Lieven Depraete dated 17th May 2019
Information about the additional mullions

3. CONFORMITY

After a detailed analysis of window louvre 424 RC2 (Figure 1 and Figure 2) and the tested configurations, the following conclusions can be made provided that each element is designed and mounted as described in the test reports [5] to [9] (i.e. with the same component material, the same number of mullions¹, the same fixation type, the same maximum distance between the fixations and the corners of the element and the adjacent fixation as the correspondent biggest distance on the tested element, ...) excepted otherwise mentioned in this report.

In these conditions, we could establish that the window louvres Renson 424 RC2 with dimensions varying from 220 mm to 4000 mm in width and from 246 mm from 4000 mm in height (Figure 3) and mounted as described in the test reports [5] to [9] are also burglar resistant in accordance with the class RC 2 of the EN 1627:2011.

¹ As described in [10], the maximum free span of the blades is 700 mm. If this distance would increase, an additional mullion must be installed



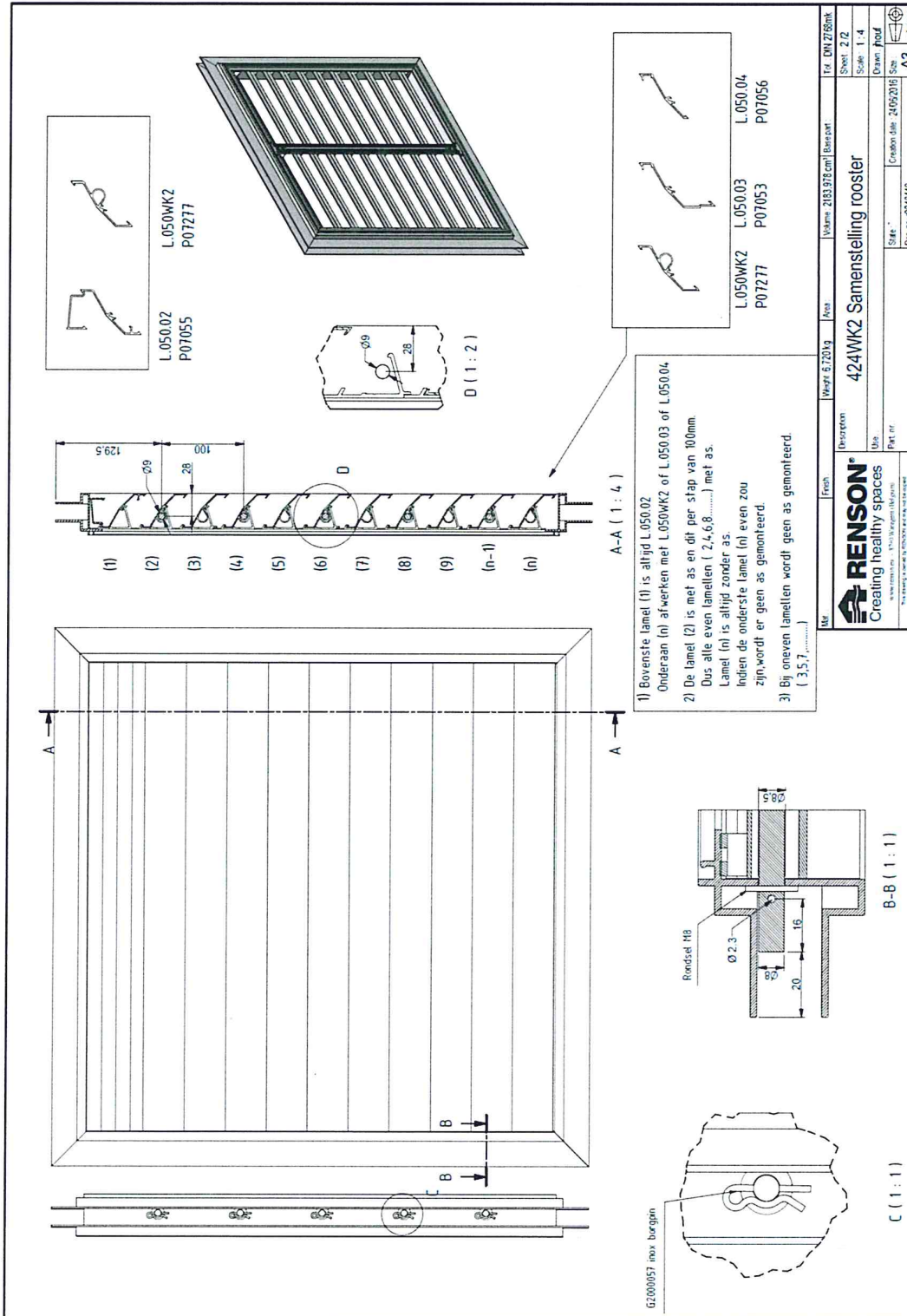


Figure 1 – Window louvre type 424 RC2 – Configuration



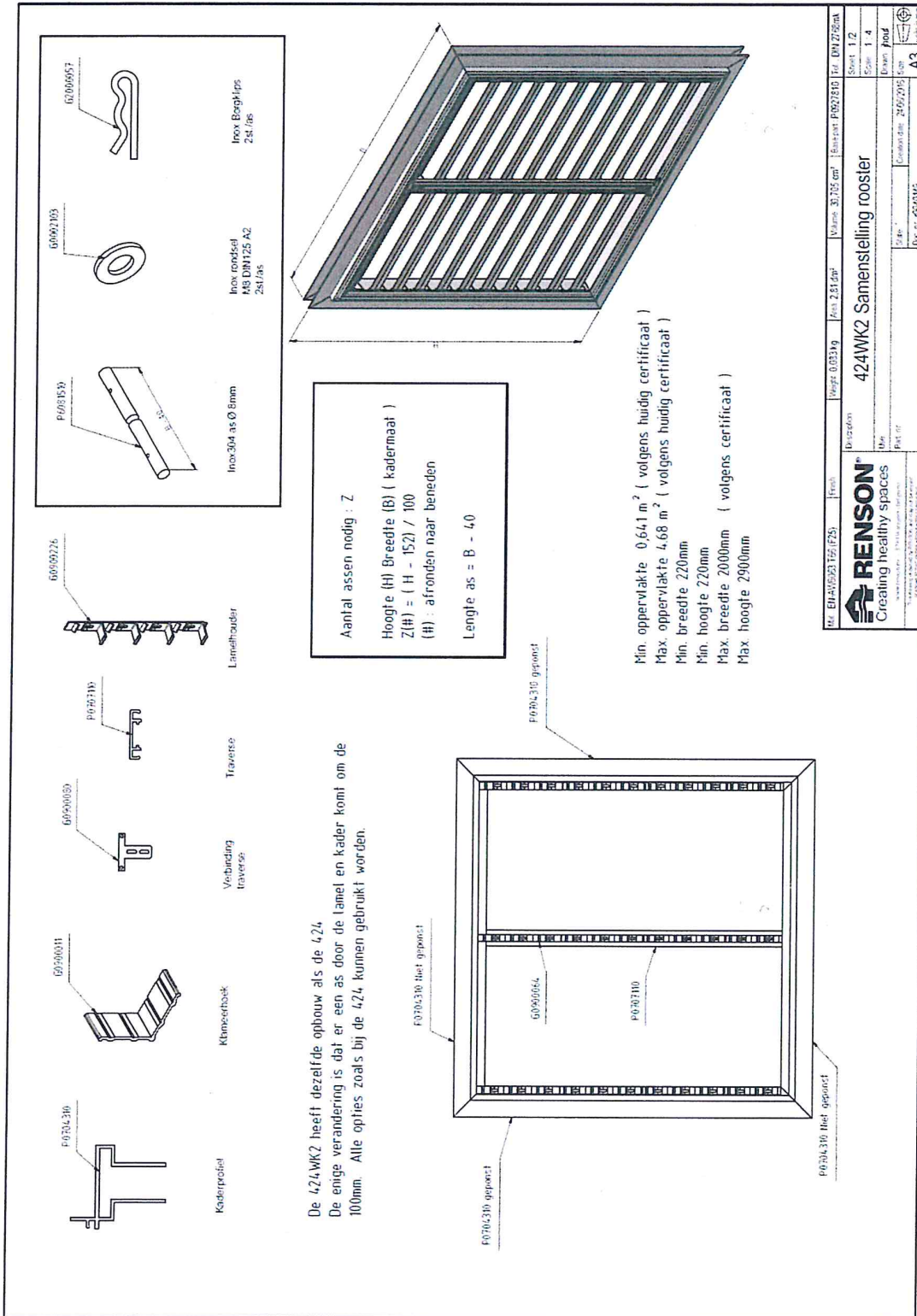


Figure 2 – Window louvre type 424 RC2 – Configuration (cont'd)



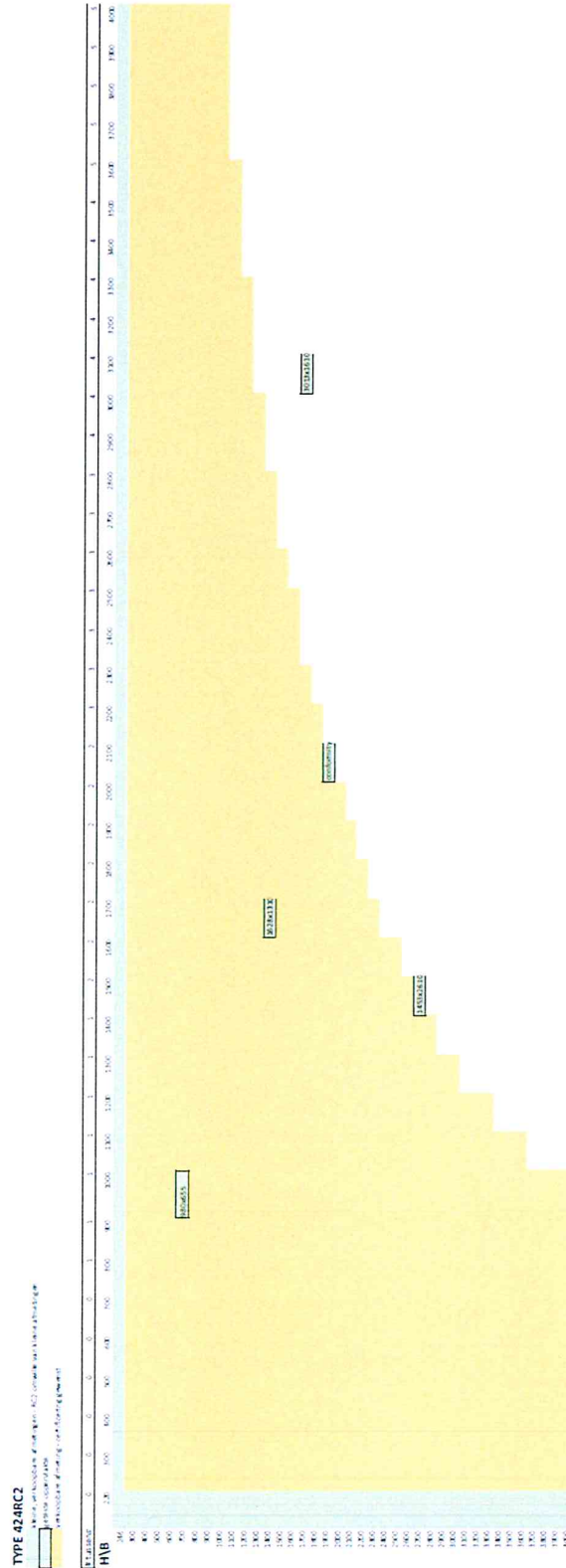


Figure 3 – Window louvre type 424 RC2 – Dimensions range

