

TITLE : Report on the Large-scale Fire Resistance

properties of the VK62F Fire Door as supplied by Aluglass Bautech when classified in accordance with SANS 1253 using the SANS 10177 – Part 2 test

protocol

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CONTRACT No : FTC 17/027

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Please note: this report only includes the 'Discussion of Results' and 'Conclusion'

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## 4. DISCUSSION OF RESULTS

The proposed Class B fire door supplied by Aluglass Bautech only achieved a Fire Resistance Rating (FRR) of 60 minutes when tested in accordance with the SANS 10177 – 2 test protocol.

Evaluation of the criteria is as follows:

Integrity: Criteria satisfied for a period of approximately 1 hour, 14 minutes and 5 seconds when gaps started forming around the lockset area.

Stability: Criteria satisfied for a period of approximately 1 hour, 15 minutes and 10 seconds when sustained ignition occurred on the unexposed side.

Insulation: The maximum single temperature reached before the test was terminated was 80.2 °C and the maximum average temperature reached 71.1 °C. Insulation 60 minutes achieved.

The proposed door met the requirement for **Integrity**, **Stability** and **Insulation** for a **Class A** fire door.

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## 5. CONCLUSION

The VK62F Fire Door as supplied by Aluglass Bautech satisfied all requirements for a 60 minute Fire Resistance (FR60) Class A Fire Door when tested in accordance with SANS 10177 – 2 and SANS 1253.

The VK62F Fire Door is classified as follows:

- SANS 10177 2 » FR60
- SANS 1253 » Class A

Note: The VK62F Fire Door is suitable for any installation requiring a Fire Resistance Rating (FRR) of 60 minutes as required by SANS 10400 – T. Should the door be envisaged for use in a fire separation or a fire division wall it will require testing on both sides, since the respective door is asymmetric.