

## Certificate of Product Approval

Certificate Number: 016d

Issue: 02

### Hart Door Systems Limited

Redburn Road  
Westerhope Industrial Estate  
Westerhope  
Newcastle-upon-Tyne  
NE5 1PJ



is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) as detailed below:

#### Products

**Fire Rated Rolling Shutter**  
Firebrand

#### Standards

**LPS 1056: Issue 6.2**  
Requirements for the LPCB approval and listing of fire doorsets, lift landing doors and shutters

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Signed for BRE Global Ltd.

Mark Newton

Certification Scheme Manager

26 November 2020

Date of Issue

09 October 2020

Date of First Issue



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## Appendix to Certificate No: 016d Hart Door Systems Limited

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Product Name	Door Type	Range of Roller Shutter		Reliability (self-closing durability ref. LPS 1056 clause 3.6)	Fire Resistance (min) EN 1634-1 Integrity	LPCB Ref. No.
		Height (mm)	Width (mm)			
Firebrand	Face-fixed Rolling shutter	3000	3000	No performance determined	30, 60, 120 and 240	016d/01
		4500	4151			
		4300	5251			
		5500	5900			
		7000	7000			
Firebrand	Face-fixed Rolling shutter	3672	8000	No performance determined	30 and 60	016d/01
		3672	9000			
		3672	10000			
		1200	6000			

### Notes:

- LPCB Ref 016d/01 – The Rolling shutter system to be manufactured, installed and maintained to the manufacturer specifications as detailed in test report P114220-1000 issue 1 dated 19/02/2020 and extended application report P116847-1000 issue 1 annex A dated 25/06/2020.
- LPCB Ref 016d/01 - is approved for use when built into masonry/concrete (minimum 215mm thick, 915Kg/m<sup>3</sup> density) or steel supporting constructions:
  - Structural steel section factor,  $A/V$ , must be less than 230m<sup>-1</sup>. Section factor to be calculated assuming section is exposed to fire on all four sides. The section factor shall be calculated as described in EN 13381-4 and EN 13381-8. This rule applies to both the vertical and the horizontal steel sections of the support frame.
  - Fire protection system must have been shown by test to EN 13381-8 to maintain the steel temperature at 400°C or less to retain strength and minimise the effects of expansion in the steel section.
  - The fixings securing the rolling shutter to the structural steel shall be in accordance with extended application report P116847-1000 appendix B and must be fabricated from steel and designed not to reduce the fire performance of the steelwork fire protection system in ambient conditions or in fire conditions.
- LPCB Ref 016d/01 - are not suitable for flexible supporting constructions.

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