

## Certificate of Product Approval

Certificate Number: 234b

Issue: 12

### SUNRAY ENGINEERING LIMITED

Kingsnorth Industrial Estate  
Wotton Road  
Ashford  
Kent  
TN23 6LL



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) detailed below:

#### Products

Fire Doorsets  
ExcluDoor 4  
ExcluDoor 4 Mk2 FR  
ExcluDoor 3 Mk3 FR

#### Standards

LPS 1056: Issue 6.1  
Test and Evaluation 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.

*Damien Ward*

Signed for LPCB

Damien Ward  
Certification Scheme Manager

20 October 2014  
Date of Issue

17 September 2001  
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## Appendix to Certificate No: 234b SUNRAY ENGINEERING LIMITED

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| Product Name       | Door Type                             | Max Height (m) | Max Width (m) | Max Area (m <sup>2</sup> ) | Vision panel glass type   | Vision panel maximum clear view height (mm) | Vision panel maximum clear view width (mm) | Vision panel maximum clear view area (m <sup>2</sup> ) | Fire resistance (min) BS 476: Part 22 Integrity / Insulation | LPCB Ref. No. |
|--------------------|---------------------------------------|----------------|---------------|----------------------------|---------------------------|---|--|--|--|---------------|
| ExcluDoor 4        | Single-leaf hinged door               | 2.250          | 1.050         | 2.400                      | -                         | -   | -  | -  | 30/0   | 234b/01       |
| ExcluDoor 4 Mk2 FR | Single-leaf hinged door               | 2.702          | 1.328         | 3.25                       | -                         | -   | -  | -  | 180/0  | 234b/02       |
| ExcluDoor 4 Mk2 FR | Single-leaf hinged door               | 2.350          | 1.155         | 2.71                       | -                         | -   | -  | -  | 240/0  | 234b/02       |
| ExcluDoor 4 Mk2 FR | Single-leaf hinged door               | 2.702          | 1.328         | 3.25                       | ExcluGlass 4 Vision panel | 280   | 380  | 0.1064   | 60/0   | 234b/02       |
| ExcluDoor 4 Mk2 FR | Double-leaf hinged door               | 2.702          | 1.328         | 3.25                       | ExcluGlass 4 Vision panel | 280   | 380  | 0.1064   | 60/0   | 234b/03       |
| ExcluDoor 4 Mk2 FR | Double-leaf hinged door               | 2.702          | 1.328         | 3.25                       | -                         | -   | -  | -  | 240/0  | 234b/03       |
| ExcluDoor 4 Mk2 FR | Unequal width Double-leaf hinged door | 2.702          | ≤1.328        | ≤3.25                      | ExcluGlass 4 Vision Panel | 280   | 380  | 0.1064   | 60/0   | 234b/03       |
| ExcluDoor 4 Mk2 FR | Unequal width Double-leaf hinged door | 2.702          | ≤1.328        | ≤3.25                      | -                         | -   | -  | -  | 240/0  | 234b/03       |

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## Appendix to Certificate No: 234b SUNRAY ENGINEERING LIMITED

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### Notes:

#### For BS476: Part 22 applications

1. LPCB Ref No. 234b/01, 234b/02 and 234b/03 are also certificated to Security Rating 4 against the requirements of LPS 1175.
2. Sunray Engineering Limited is also approved to LPS 1271 for installation of fire and security doors, see approval for details.
3. LPCB Ref No. 234b/02 and 264b/03 Doorsets are approved to withstand a fire exposure to the closing side only as detailed in BRE Assessment Report CC 285805B.
4. LPCB Ref No. 234b/02 and 234b/03 may be fitted with one or more Eurospec SWE1010 stainless steel door viewers.
5. LPCB Ref No. 234b/02 and 234b/03 the ExcluDoor 4 Mk2, double-leaf doorset, may have a vision panel installed in either the passive or the active leaf.

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## Appendix to Certificate No: 234b SUNRAY ENGINEERING LIMITED

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| Product Name       | Door Type                             | Max Height (m) | Max Width (m) | Max Area (m <sup>2</sup> ) | Vision panel glass type   | Vision panel maximum clear view height (mm) | Vision panel maximum clear view width (mm) | Vision panel maximum clear view area (m <sup>2</sup> ) | Fire resistance (min) EN 1634-1: 2008 Integrity / Insulation | LPCB Ref. No. |
|--------------------|---------------------------------------|----------------|---------------|----------------------------|---------------------------|---|--|--|--|---------------|
| ExcluDoor 4 Mk2 FR | Single-leaf hinged door               | 2.702          | 1.328         | 3.25                       | -                         | -   | -  | -  | 180/0  | 234b/02       |
| ExcluDoor 4 Mk2 FR | Single-leaf hinged door               | 2.350          | 1.155         | 2.71                       | -                         | -   | -  | -  | 240/0  | 234b/02       |
| ExcluDoor 4 Mk2 FR | Single-leaf hinged door               | 2.702          | 1.328         | 3.25                       | ExcluGlass 4 Vision panel | 280   | 380  | 0.1064   | 60/0   | 234b/02       |
| ExcluDoor 4 Mk2 FR | Double-leaf hinged door               | 2.702          | 1.328         | 3.25                       | ExcluGlass 4 Vision panel | 280   | 380  | 0.1064   | 60/0   | 234b/03       |
| ExcluDoor 4 Mk2 FR | Double-leaf hinged door               | 2.702          | 1.328         | 3.25                       | -                         | -   | -  | -  | 240/0  | 234b/03       |
| ExcluDoor 4 Mk2 FR | Unequal with Double-leaf hinged door  | 2.702          | ≤1.328        | ≤3.25                      | ExcluGlass 4 Vision panel | 280   | 380  | 0.1064   | 60/0   | 234b/03       |
| ExcluDoor 4 Mk2 FR | Unequal width Double-leaf hinged door | 2.702          | ≤1.328        | ≤3.25                      | -                         | -   | -  | -  | 240/0  | 234b/03       |

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## Appendix to Certificate No: 234b SUNRAY ENGINEERING LIMITED

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| Product Name       | Door Type                             | Max Height (m) | Max Width (m) | Max Area (m <sup>2</sup> ) | Vision panel glass type   | Vision panel maximum clear view height (mm) | Vision panel maximum clear view width (mm) | Vision panel maximum clear view area (m <sup>2</sup> ) | Fire resistance (min) EN 1634-1: 2008 Integrity / Insulation | LPCB Ref. No. |
|--------------------|---------------------------------------|----------------|---------------|----------------------------|---------------------------|---|--|--|--|---------------|
| ExcluDoor 3 Mk3 FR | Single-leaf hinged door               | 2.702          | 1.328         | 3.25                       | -                         | -   | -  | -  | 180/0  | 234b/04       |
| ExcluDoor 3 Mk3 FR | Single-leaf hinged door               | 2.350          | 1.155         | 2.71                       | -                         | -   | -  | -  | 240/0  | 234b/04       |
| ExcluDoor 3 Mk3 FR | Single-leaf hinged door               | 2.702          | 1.328         | 3.25                       | ExcluGlass 4 Vision panel | 280   | 380  | 0.1064   | 60/0   | 234b/04       |
| ExcluDoor 3 Mk3 FR | Double-leaf hinged door               | 2.702          | 1.328         | 3.25                       | -                         | -   | -  | -  | 240/0  | 234b/05       |
| ExcluDoor 3 Mk3 FR | Double-leaf hinged door               | 2.702          | 1.328         | 3.25                       | ExcluGlass 4 Vision panel | 280   | 380  | 0.1064   | 60/0   | 234b/05       |
| ExcluDoor 3 Mk3 FR | Unequal width Double-leaf hinged door | 2.702          | ≤1.328        | ≤3.25                      | -                         | -   | -  | -  | 240/0  | 234b/05       |
| ExcluDoor 3 Mk3 FR | Unequal width Double-leaf hinged door | 2.702          | ≤1.328        | ≤3.25                      | ExcluGlass 4 Vision panel | 280   | 380  | 0.1064   | 60/0   | 234b/05       |

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## Appendix to Certificate No: 234b SUNRAY ENGINEERING LIMITED

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### Notes: For EN 1634-1:2008 applications

1. LPCB Ref No. 234b/02, 234b/03, 234b/04 and 234b/05 Doorsets may be fitted with a plain outer face so that there is not method of external access.
2. LPCB Ref No. 234b/02, 234b/03, 234b/04 and 234b/05 are also certified to Security Rating 4 against the requirements of LPS 1175.
3. Sunray Engineering Limited is also approved to LPS 1271 for installation of fire and security doors see approval listing for details.
4. LPCB Ref No. 234b/02, 234b/03, 234b/04 and 234b/05 doorsets are approved to withstand a fire exposure to the closing side only as detailed in BRE Assessment CC 285805A.
5. LPCB Ref No. 234b/02, 234b/03, 234b/04 and 234b/05 may be fitted with one or more Eurospec SWE 1010 stainless steel door viewers.
6. LPCB Ref No. 234b/02, 234b/03, 234b/04 and 234b/05 the Excludoor 4 Mk2, double-leaf doorsets, may only have the vision panel installed in the active leaf.
7. LPCB Ref No. 234b/02, 234b/03, 234b/04 and 234b/05 Doorsets are approved with the following Surelock Slimline three-point lock systems as shown below:

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| Description         | Code  | Entry |                |             | Exit |          |                |       |           |
|---------------------|-------|-------|----------------|-------------|------|----------|----------------|-------|-----------|
|                     |       | Key   | Access control | Combination | Key  | Turnknob | Access control | Panic | Emergency |
| 3-point bolting     | SL304 | *     |                |             |      |          |                | √     |           |
| 3-point bolting     | SL305 | *     |                |             |      |          |                |       | √         |
| 3-point deadlocking | SL301 | √     |                |             | √    |          |                | √     |           |
| 3-point deadlocking | SL303 |       |                |             |      | √        |                | √     |           |
| 3-point deadlocking | SL310 | √     |                |             |      |          |                |       |           |
| 3-point deadlocking | SL311 | √     |                |             | √    |          |                | √     |           |
| 3-point deadlocking | SL313 | √     |                |             |      | √        |                | √     |           |
| 3-point deadlocking | SL314 | √     |                |             |      |          |                | √     |           |
| 3-point deadlocking | SL315 | √     |                |             |      |          |                |       | √         |
| 3-point deadlocking | SL320 | *     | √              |             |      |          |                |       |           |
| 3-point deadlocking | SL321 | *     | √              |             | √    | √        | √              | √     |           |
| 3-point deadlocking | SL322 | *     | √              |             |      |          | √              |       |           |
| 3-point deadlocking | SL323 | *     | √              |             |      | √        | √              | √     |           |
| 3-point deadlocking | SL324 | *     | √              |             |      |          |                | √     |           |
| 3-point deadlocking | SL325 | *     | √              |             |      |          |                |       | √         |
| 3-point deadlocking | SL330 |       |                | √           |      |          |                |       |           |
| 3-point deadlocking | SL335 |       |                | √           |      |          |                |       | √         |

√ - included as standard

\* - optional enhancement

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