

Hardware performance sheet (HPS) – lock cases dormakaba 1400 series

1 General

This document is worked out according to the European Standard:

- EN 16035:2012

The hardware performance sheet (HPS) is an identification and summary of test evidence to facilitate the interchangeability of building hardware for application to fire resisting and/or smoke control doorsets and/or openable windows.

The HPS together with mentioned test reports in Table A.3 shall be a part of the technical documentation delivered to a Notified Body for an Extended application report, prior to CE-marking.

2 HPS

2.1 Building hardware identification

Table A.1 Basic information about the building hardware

| Position | Declaration | Required product information | Note/additional information |
|----------|---|--|-----------------------------|
| 1 | Manufacturer | dormakaba Sverige AB | See 5.2.1 |
| 2 | Manufacturer's product reference as shown in fire test evidence | 1400 series: 1402, 1410, 1411*, 1412, 1416, 1418, 1422, 1424, 1425, 1432, 1433, 1434, 1435, 1436 and 1479 | See 5.2.2 |

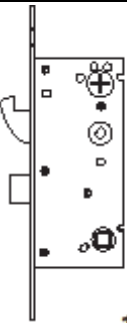
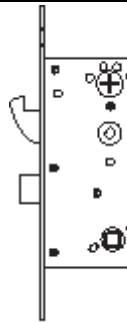
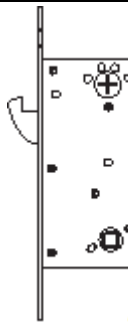
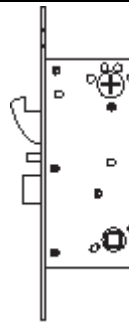
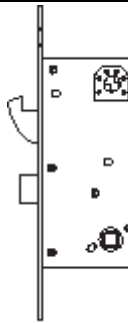
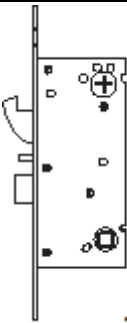
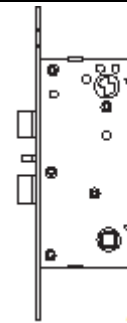
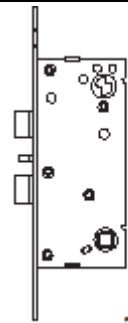
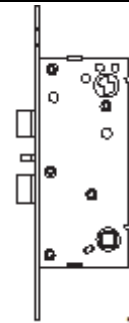
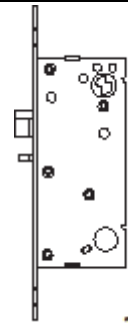
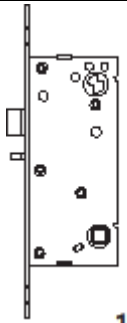
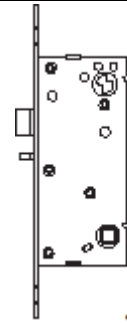
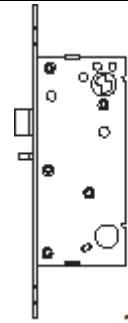
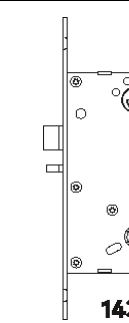
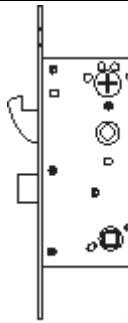
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| | | | | |
|--|--|---|---|--|
|  |  |  |  |  |
| 1402 | 1410 | 1411 | 1412 | 1416 |
|  |  |  |  |  |
| 1418 | 1422 | 1424 | 1425 | 1432 |
|  |  |  |  |  |
| 1433 | 1434 | 1435 | 1436 | 1479 |
| 3 | Type of building hardware | Mechanically operated locks | | See 5.2.3 |
| 4 | Relevant EN standard | EN 12209:2003 and EN 12209:2003/AC:2005 | | See 5.2.4 |
| 5 | Classification (in accordance with relevant hardware product standard) | Classification: Grade 1 | Characteristics: Suitability for use on fire/ smoke doors | See 5.2.5 |
| 6 | Main dimensions | Dimensions: Lock case: 64 x 150 x 19 mm. Front plate: 3 x 225 x 22 mm. Latch bolt length: 14 mm. | | See 5.2.6 |
| 7 | Remarks | * Lock cases 1411 have no latch and must be combined with another product, proven by test, to keep the door in closed position. | | See 5.2.7 |

2.2 Test evidence used

Table A.2 information about the test evidence of the building hardware described in Table A.1

| | | |
|-------------------------------------|---|---|
| 1 | Material of doorset and/or openable window | <input type="checkbox"/> Steel doorset and/or openable window |
| | | <input type="checkbox"/> Timber doorset and/or openable window |
| | | <input type="checkbox"/> Aluminium doorset and/or openable window |
| | | <input checked="" type="checkbox"/> Glazed steel doorset |
| 2 | Mounting of building hardware | <input type="checkbox"/> Surface mounted, exposed to fire |
| | | <input type="checkbox"/> Surface mounted, not exposed to fire |
| | | <input checked="" type="checkbox"/> Mortice mounted, fire on both sides |
| 3 | Type of doorset and/or openable window | <input checked="" type="checkbox"/> Hinged |
| | | <input type="checkbox"/> Pivoted |
| | | <input type="checkbox"/> Sliding |
| | | <input checked="" type="checkbox"/> Single leaf doorset |
| | | <input type="checkbox"/> Double leaf doorset |
| | | <input type="checkbox"/> Primary (active) leaf |
| | | <input type="checkbox"/> Secondary (inactive) leaf |
| <input type="checkbox"/> Other type | | |

2.3 Performance level(s)

Table A.3

| | Performance | Fire resisting and/or smoke control doorset and/or openable window test evidence | Building hardware test evidence ^a | Smoke control doorset and/or openable window test evidence | Durability of self-closing |
|-----------|--------------------------|--|---|---|---|
| 1 | Test method | <input checked="" type="checkbox"/> EN 1634-1 | <input type="checkbox"/> EN 1634-2 ^b | <input type="checkbox"/> EN 1634-3 | <input type="checkbox"/> EN 1191 <input type="checkbox"/> EN 12605 |
| 2 | Test report no: | 4P07813rev1 dated 2015-05-06 (1) | | | |
| 3 | Test report issued by: | SP Technical Research Institute of Sweden | | | |
| 4 | Classification | EN 13501-2: E: 30 min (1) * * Classification E120 for tested lock cases after isolating premature failure on the door. | | EN 13501-2: <input type="checkbox"/> S _a <input type="checkbox"/> S ₂₀₀ | EN 14600: <input type="checkbox"/> C0 <input type="checkbox"/> C1 <input type="checkbox"/> C2 <input type="checkbox"/> C3 <input type="checkbox"/> C4 <input type="checkbox"/> C5 |
| 5a | Width of primary leaf: | 980 mm (1) | | | |
| 5b | Width of secondary leaf: | - | | | |

| | | | | | |
|-----------|---|-------------|--|--|--|
| 6 | Door leaf height: | 2110 mm (1) | | | |
| 7 | Door thickness: | 50 mm (1) | | | |
| 8a | Mass of primary leaf: | - | | | |
| 8b | Mass of secondary leaf: | - | | | |
| 9 | Restrictions ^c : - | | | | |
| 10 | Installation instructions ^d : - | | | | |
| 11 | Certification body: RISE Research Institutes of Sweden AB | | | | |
| 12 | Prepared by: RISE Research Institutes of Sweden AB | | | | |
| 13 | Date: 2019-04-12. | | | | |

^a The dimensions shown in this column relate to the associated construction relevant to the particular test.

^b Results from a test by EN 1634-2 show information about the hardware. The test specimen of EN 1634-2 does not represent a doorset as defined in EN 16034.

^c E.g. limitations of application.

^d E.g. reference to the building hardware manufacturer's installation instructions.

RISE Research Institutes of Sweden AB
Safety - Fire Research Resistance

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