

Contact person RISE

Monika Förster  
Division Safety and Transport  
+46 10 516 55 15  
monika.forster@ri.se

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Beslagsgrossisten i Linköping AB  
Låsbomsgatan 25  
589 41 Linköping  
SWEDEN

## Hardware performance sheet (HPS) – Boyesen & Munthe Door handles and knob furniture 500-series and StAlu- 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 2.1 Basic information about the building hardware*

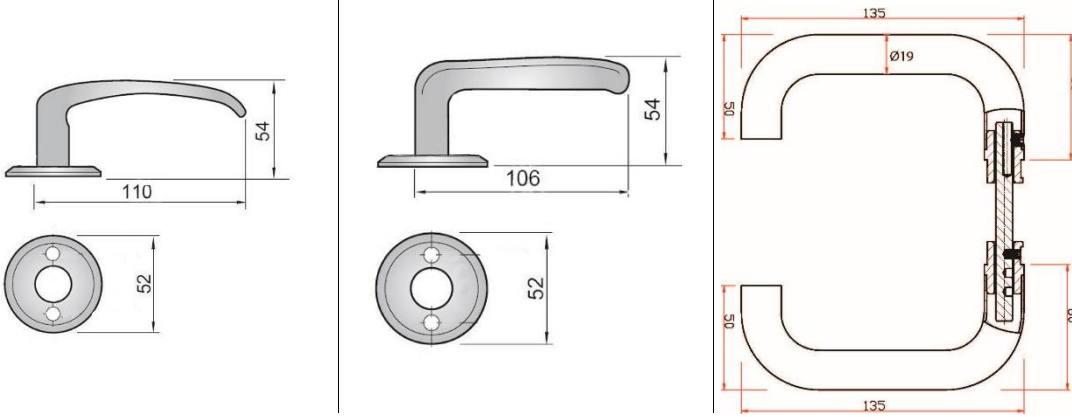
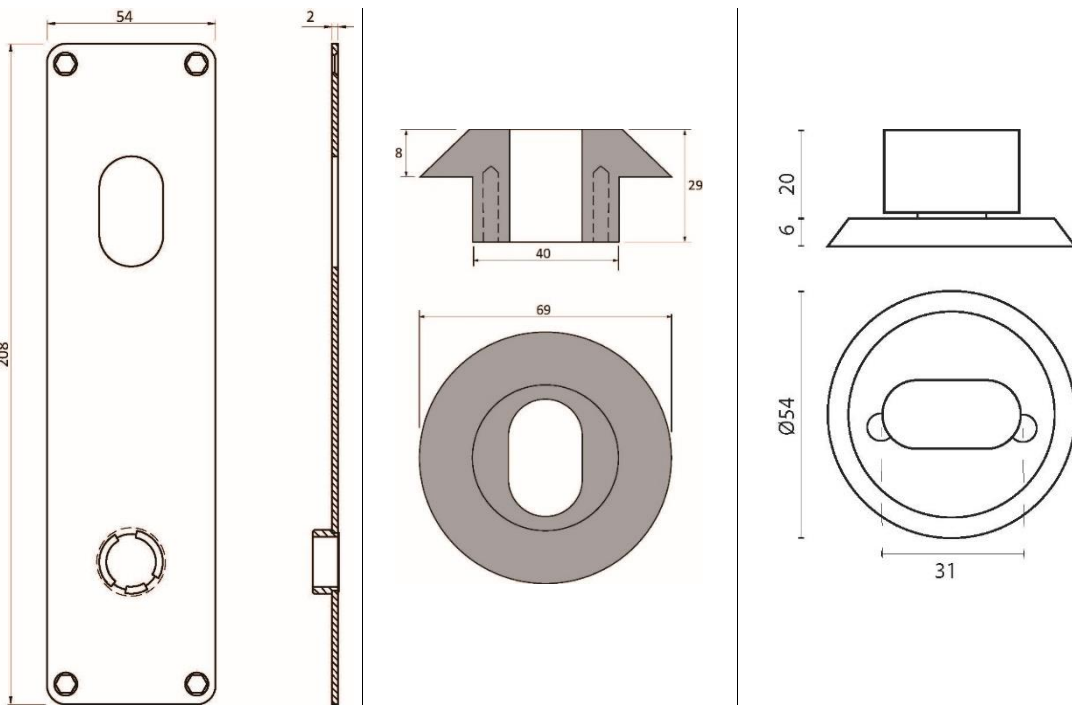
Position	Declaration	Required product information	Note/additional information
1	Manufacturer	Boyesen & Munthe	See 5.2.1

#### RISE Research Institutes of Sweden AB

Postal address  
Box 857  
501 15 BORÅS  
SWEDENOffice location  
Brinellgatan 4  
504 62 Borås  
SWEDENPhone / Fax / E-mail  
+46 10-516 50 00  
+46 33-13 55 02  
info@ri.se

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Position	Declaration	Required product information		Note/additional information
2	Manufacturer's product reference as shown in fire test evidence	StAlu series: 4640, 46640, 46696 5640, 56640, 56696  500-series handles, escutcheons and roses in stainless steel  VP30_, 31_, 51_-series cylinder ring  BM 561 Turn knob		See 5.2.2
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>46640 56640</p> <p>46640</p> </div> <div style="text-align: center;">  <p>46696 56696</p> <p>46696</p> </div> <div style="text-align: center;">  <p>519U</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>550C</p> </div> <div style="text-align: center;">  <p>VP 3108</p> </div> <div style="text-align: center;">  <p>561</p> </div> </div>				
3	Type of building hardware	Lever handles and knob furniture		See 5.2.3
4	Relevant EN standard	EN 1906:2012		See 5.2.4
5	Classification (in accordance with relevant hardware product standard)	Classification: Grade B	Characteristics: Suitability for use on fire/ smoke doors	See 5.2.5

Position	Declaration	Required product information	Note/additional information
6	Main dimensions	See figures below	See 5.2.6
 <p style="text-align: center;">46640                                      46696                                      519U</p>			
 <p style="text-align: center;">550C                                      VP 3108                                      561</p>			
7	Remarks	<p>StAlu-series handles in aluminium,  roses in steel, 8 x 8 mm spindle in steel  Models 46__ with M4 brass screws  Models 56__ with M5 brass screws  500-series models all in stainless steel  VP3108 in hardened steel  BM561 in steel</p>	See 5.2.7

## 2.2 Test evidence

Table 2.2 information about the test evidence of the building hardware described in Table 2.1

1	<b>Material of doorset and/or openable window</b>	<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	<b>Mounting of building hardware</b>	<input checked="" type="checkbox"/> Surface mounted, exposed to fire
		<input checked="" type="checkbox"/> Surface mounted, not exposed to fire
		<input type="checkbox"/> Mortice mounted, fire on both sides
3	<b>Type of doorset and/or openable window</b>	<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 2.3 Performance level(s)

	Performance	Fire resisting and/or smoke control doorset and/or openable window test evidence	Building hardware test evidence <sup>a</sup>	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 <sup>b</sup>	<input type="checkbox"/> EN 1634-3	<input type="checkbox"/> EN 1191 <input type="checkbox"/> EN 12605
2	Test report no:	O100402-126393 dated 2021-03-29			
3	Test report issued by:	RISE Research Institute of Sweden AB			
4	Classification:	EN 13501-2: E: 120 min		EN 13501-2: <input type="checkbox"/> S <sub>a</sub> > <input type="checkbox"/> S <sub>200</sub> >	EN 13501-2: <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			
5b	Width of secondary leaf:	-			

	Performance	Fire resisting and/or smoke control doorset and/or openable window test evidence	Building hardware test evidence <sup>a</sup>	Smoke control doorset and/or openable window test evidence	Durability of self-closing
6	Door leaf height:	2110 mm			
7	Door leaf thickness:	50 mm			
8a	Mass of primary leaf:	-			
8b	Mass of secondary leaf:	-			
9	Restrictions <sup>c</sup> :				
10	Installation instructions <sup>d</sup> :				
11	Certification body: RISE Research Institutes of Sweden AB				
12	Prepared by: RISE Research Institutes of Sweden AB				
13	Date: August 16, 2021				

<sup>a</sup> The dimensions shown in this column relate to the associated construction relevant to the particular test.

<sup>b</sup> 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.

<sup>c</sup> E.g. limitations of application.

<sup>d</sup> E.g. reference to the building hardware manufacturer's installation instructions.

**RISE Research Institutes of Sweden AB**  
**Department Fire Technology - Fire Resistance Management**

Performed by

Examined by

Monika Förster

Pär Johansson