

# EN 16035 :2023 Hardware performance sheet

## EL495FU

### No : HPS240002-00

Table 1 Building hardware

Line	Feature	Required indication / Properties																		
1.1	HPS No./version	HPS240002-00																		
1.2	Date	7.8.2024																		
1.3	Prepared by	Abloy Oy, Testing, Maarit Jumppanen																		
1.4	Manufacturer	Abloy Oy																		
1.5	Type of building hardware	Electric lock																		
1.6	Product line	EL495																		
1.7	Relevant EN standard	EN 14846: 2008																		
1.8	Classification / performance	<table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr><tr><td>3</td><td>S</td><td>5</td><td>D</td><td>-</td><td>L</td><td>3</td><td>1</td><td>1</td></tr></table> <p>Category of use/Durability and load on latchbolt/Door mass and closing force/ Suitability for use on fire /Smoke doors/Safety/Corrosion resistance, temperature and humidity/Security/Security - electrical function/Security - electrical manipulation</p>	1	2	3	4	5	6	7	8	9	3	S	5	D	-	L	3	1	1
1	2	3	4	5	6	7	8	9												
3	S	5	D	-	L	3	1	1												
1.9	Test evidence used	EUFI29-21002699-T1, EUFI29-21002697-T1																		

Table 2 Test evidence used

Line	Feature	Required indication / Properties
2.1	HPS No./version	HPS240002-00
2.2	No. of test evidence	EXAP - EUFI29-21001887-T2
2.3	Product version	EL495FU
2.4	Main dimensions of the specific building hardware	<p>Dimensions (height x width x depth): lock body 211.6 mm x 21.5 mm x 50 mm forend 278 mm x 25 mm x 3 mm</p> <p>(Technical drawings with dimensions attached).</p> <p>EL495FU represents the whole product family as it has biggest fire load, with largest main dimensions. EL495FL and EL495 are equal size, fire load is equal (EL495FL) / smaller (EL495)</p> <p>EL480, EL482 are smaller size Dimensions (height x width x depth): lock body: 163.5 mm x 19.4 mm x 50 mm forend: 225 mm 25 mm x 3 mm</p> <p>LC300, LC300x, LC301F, LC301Fx, LC303, LC305, LC305x, LC130, LC130x, LC132, LC132x, LE310, LE310x, LE314, LE314x are smaller size. x -version are microswitch locks. Dimensions (height x width x depth): lock body: 163 mm x 21 mm x 49 mm forend: 225 mm x 25 mm x 4 mm</p>
2.5	Fixing, building hardware to element	-
2.6	Settings	-
2.7	Material of doorset and/or openable window	<input type="checkbox"/> Steel doorset <input type="checkbox"/> Aluminum doorset <input checked="" type="checkbox"/> Metal framed glazed doorset

		<input type="checkbox"/> Timber <input type="checkbox"/> Additional information: Glazed
2.8	Type and material of the element frame	Type -  Material <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Timber
2.9	Element frame thickness	60 mm
2.10	Mode of operation	<input checked="" type="checkbox"/> Hinged <input type="checkbox"/> Pivoted <input type="checkbox"/> Sliding <input checked="" type="checkbox"/> Single leaf <input type="checkbox"/> Double leaf
2.11	Mounting position building hardware	<input type="checkbox"/> Surface mounted <input checked="" type="checkbox"/> Mortise mounted
2.12	Building hardware is mounted on	<input checked="" type="checkbox"/> Primary (single / active) leaf <input type="checkbox"/> Secondary (inactive) leaf
2.13	Leaf mass	145 kg
2.14	Leaf width	1070 mm
2.15	Leaf height	2110 mm
2.16	Leaf thickness	60 mm
2.17	Thermal separation	-
2.18	Insulation layer	MGO boards and stone wool slab in profiles
2.19	Intumescent layer	-
2.20	Seals or gaskets	<input checked="" type="checkbox"/> Yes. 40 mm x 2 mm intumescent seal around the door leaves and around the inner side of the door frame. <input type="checkbox"/> N/A

Table 3 Performance level(s) fire resistance

Line	Feature	Required indication / Properties		
3.1	HPS No. and test evidence used	HPS240002-00 EUF129-20001211-T1		
3.2	Fire resistance test	<input checked="" type="checkbox"/> EN 1634-1 :2014 + A1:2018 <input type="checkbox"/> EN 1634-2:2008		
3.3	No. Test report	EUF129-20001211-T1		
3.4	Notified test body	0809 Eurofins Expert Services Oy		
3.5	Direction of test exposure	<input checked="" type="checkbox"/> Towards the furnace <input checked="" type="checkbox"/> Away the furnace		
3.6	Precondition test	<input checked="" type="checkbox"/> 25 cycles <input type="checkbox"/> 5000 cycles <input type="checkbox"/> N/A		
3.7	Classification	<input checked="" type="checkbox"/> EN 13501-2 classification including overrun time  E: 71 min W: - min I <sub>1</sub> : 23 min I <sub>2</sub> : 70 min <input type="checkbox"/> N/A		
3.8	Observations during the test related to hardware	<b>Time (min:s)</b>	<b>E/U</b>	<b>Observation E = exposed side, U = unexposed</b>
		0:00		Test was started.
		1:15	E	Floor covering was flaming on the exposed side
		1:40	U	Door A: glazing started to turn milky
		1:50	U	Door B: glazing started to turn milky
		2:35	U	Glazing was reacting in both doors

		70:20...70:50		Door B: cotton wool pad test was performed on a crack formed on the bottom right corner of the glazing (under tc22). Neither burning nor glowing of the cotton pad.
		71:20		Door B: sustained flaming through the crack formed on the bottom right corner of the glazing (under tc22). Integrity of the door was lost at test time 71 min. 31 s.
		71:20	U	Test was terminated
		Door A opened towards fire; Door B opened away from fire		
3.9	Applicable EXAP Standard	<input type="checkbox"/> EN 15269-2 Part 2 Fire resistance of hinged and pivoted steel doorsets <input type="checkbox"/> EN 15269_3 Part 3 Fire resistance of hinged and pivoted timber doorsets <input checked="" type="checkbox"/> EN15269-5 2014 A1:2016 Part 5 Hinged and pivoted metal framed glazed doorsets and openable windows <input type="checkbox"/> N/A		
3.10	Data confirmed by	Not confirmed by Notified body		

Joensuu 2024-08-15

Signed for and on behalf of Abloy Oy



Minna Sallinen  
VP Digital Access Solutions BU

Joensuu 2024-08-15

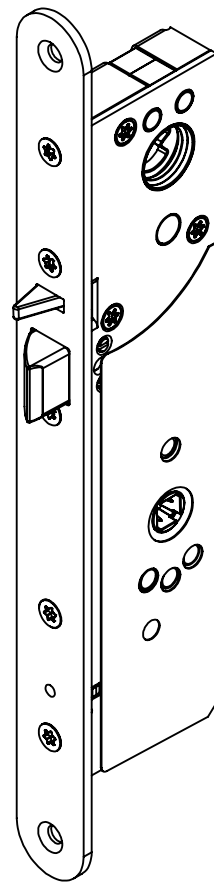
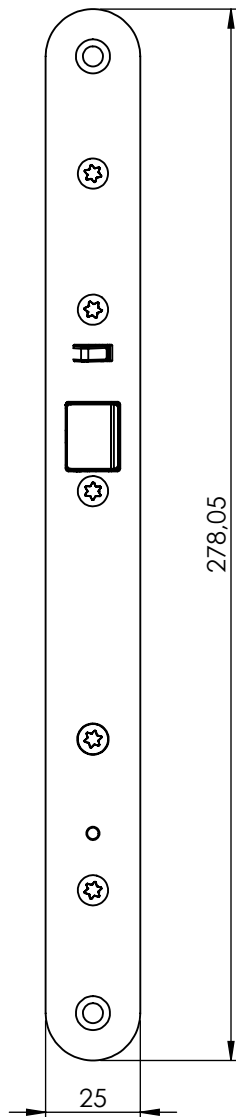
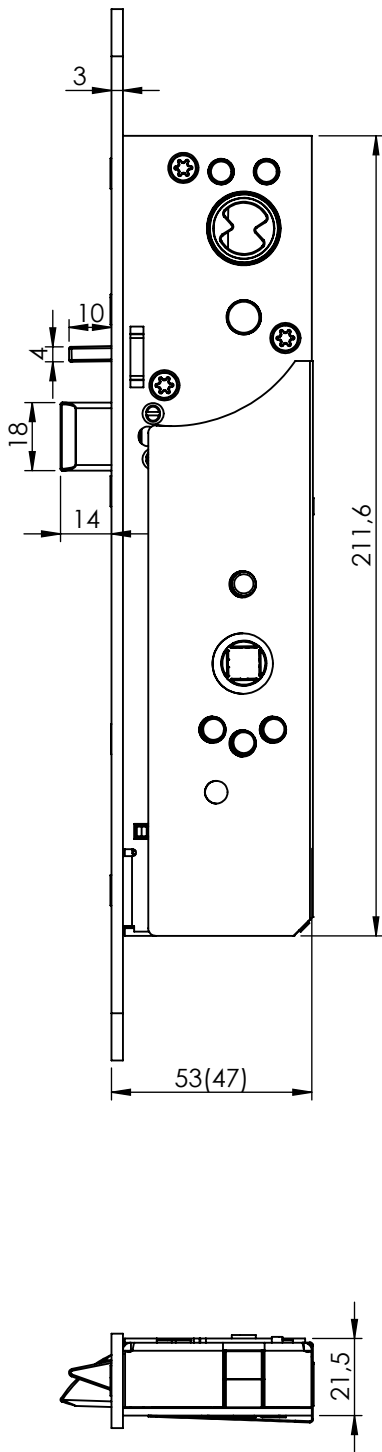
Signed for and on behalf of Abloy Oy



Jari Kervinen  
Director and Head of Innovation, Mechanical Core PU Nordic

If not mentioned otherwise,  
dimensions do not include coating

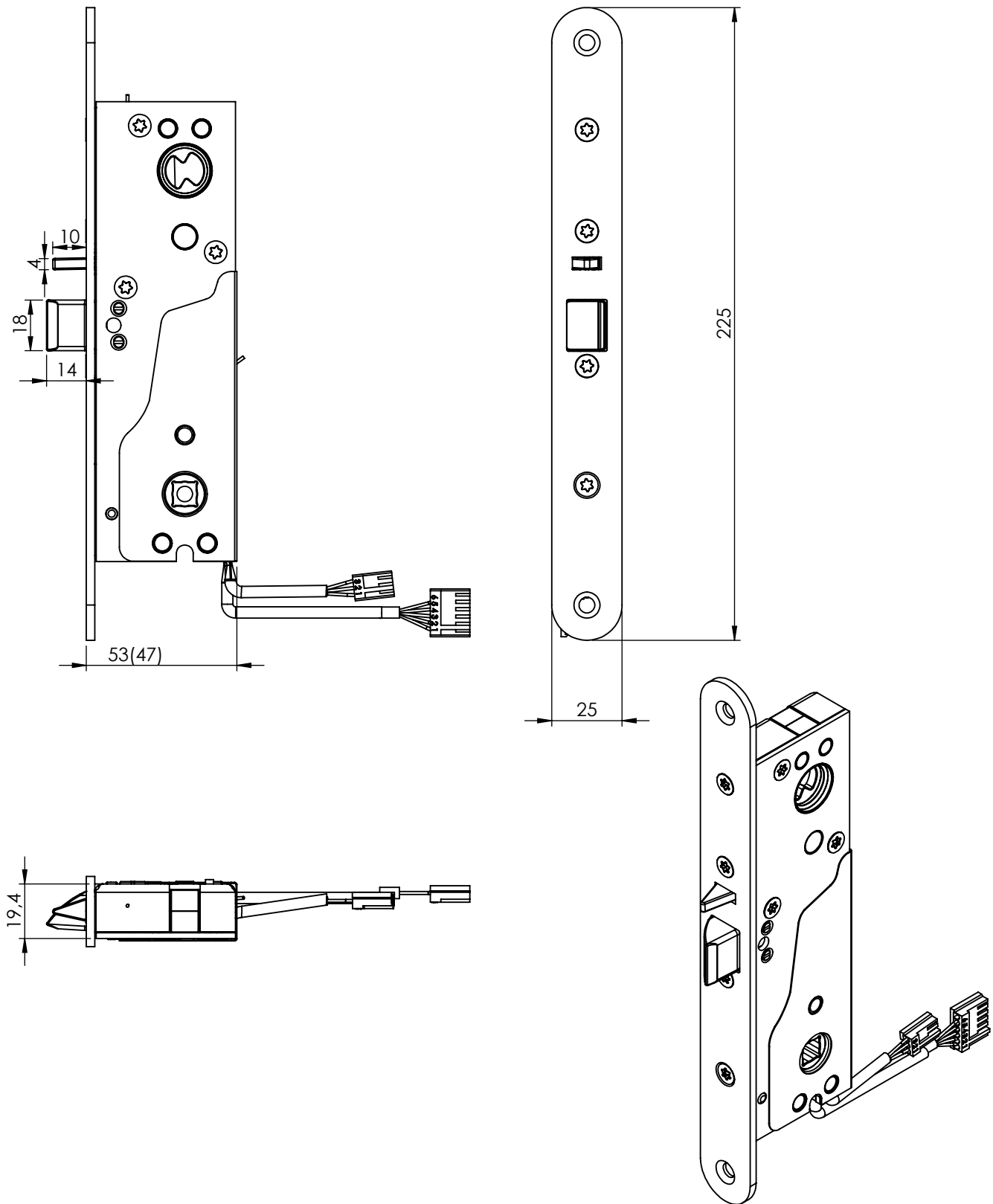
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Surface treatment:			Material:			General tolerance: ISO 8015 ISO 2768-mH	
Volume: 137542.26	Mass: 821.93	Surface area: 205894.69	Created (YYYY-MM-DD):	Designed by:	Drawn by:	Scale: 1:2 (A4)	Projection: 
<b>ASSA ABLOY</b>			EL495FU			Alternate ID	
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dimensions do not include coating

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Surface treatment:			Material:			General tolerance: ISO 8015 ISO 2768-mH	
Volume: 98286.24 mm <sup>3</sup>	Mass: 692.60 gram	Surface area: 130188.69 mm <sup>2</sup>	Created (YYYY-MM-DD):	Designed by:	Drawn by:	Scale: 1:2 (A4)	Projection: 
<b>ASSA ABLOY</b>			EL480, EL482			Alternate ID	
						Document ID	Rev.: 1

