

Statement on the influence of the old and the new lock types to the fire resistance of metal doors, wooden doors, glazed metal doors and glazed wooden doors

| Requested by: ABLOY OY

Requested by Abloy Oy
P.O. Box 108 (Wahlforssinkatu 20)
FIN-80101 JOENSUU, Finland

Order Verbal order on 9 January 2004 by Mr. Esa Parjanen from Abloy Oy

Contact person at VTT VTT TECHNICAL RESEARCH CENTRE OF FINLAND
VTT BUILDING AND TRANSPORT
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Statement on the influence of the old and the new lock types to the fire resistance of metal doors, wooden doors, glazed metal doors and glazed wooden doors

Request for comment The client request a statement on the influence of the old and new lock types to the fire resistance of metal doors, wooden doors, glazed metal doors and glazed wooden doors.

The client has sent a construction confirmation that presents the correspondences and differences between the old and the new lock types (Appendix 1). General drawings of the locks are presented in Appendix 2.

Background information The fire resistance tests of Abloy Oy carried out at VTT support this statement.

Statement We state as our opinion that the fire resistance of the doors are identical with the old and the new lock types.

Annotation If any changes are made to the construction of the locks this statement is not valid. This statement is not approval of product but evaluation of the fire resistance of these constructions.

Espoo, 2 February 2004



Riitta Kajastila
Group Manager



Matti Immonen
Research Engineer

APPENDICES Appendix 1 Construction confirmation
Appendix 2 General pictures of the locks

DISTRIBUTION Client, 2 Original
VTT/RTE10/Archive, 1 Original

3-RTEU107/107LAUSUNNO/MIM



CONSTRUCTION CONFIRMATION

Manufacturer: Abloy Oy

Address: Wahlforsinkatu 20, 80100 JOENSUU, FINLAND

APPENDIX NO.	1	1(2)
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Hereby declare that the products have following mechanical and electrical differences and similarities.

Motor locks

New code	Old code	Difference to old products	Difference to new basic product.
Wooden and metal door locks			
EL520	8120	Component shapes have been changed, materials are equal. Basic construction idea is same, only trigger bolt function is not precise equal.	Basic product.
EL522	8130	- " -	Cylinder hole (shape of hole) is different.
Profile door locks			
EL420	8320	- " -	Basic product.
EL422	8330	- " -	Cylinder hole (shape of hole) is different.

Solenoid locks

New code	Old code	Difference to old products	Difference to new basic product
Wooden and metal door locks			
EL560	EL540 EL541	Component shapes have been changed, materials are equal. Basic construction idea is same, only trigger bolt function is not precise equal. Solenoid function changeable → only one product.	Basic product.
EL561	EL542 EL543	- " -	Follower for handle spindle is not splitted.
EL562	EL544 EL545	- " -	Cylinder hole (shape of hole) is different.
EL563	EL546 EL547	- " -	Cylinder hole (shape of hole) is different. Follower for handle spindle is not splitted.



Profile door locks			
EL460	EL440 EL441	- " -	Basic product.
EL461	EL442 EL443	- " -	Follower for handle spindle is not splitted.
EL462	EL444 EL445	- " -	Cylinder hole (shape of hole) is different.
EL463	EL446 EL447	- " -	Cylinder hole (shape of hole) is different. Follower for handle spindle is not splitted.

Micro switch locks

New code	Old code	Difference to old products	Difference to new basic product
Wooden and metal door locks			
EL360	EL340	Component shapes have been changed, materials are equal. Basic construction idea is same, only trigger bolt function is not precise equal.	Basic product.
EL362	EL341	- " -	Cylinder hole (shape of hole) is different.
Profile door locks			
EL260	EL240	- " -	Basic product.
EL262	EL241	- " -	Cylinder hole (shape of hole) is different.

Mechanical locks

New code	Old code	Difference to old products	Difference to new basic product
Wooden and metal door locks			
EL160	EL140	Component shapes have been changed, materials are equal. Basic construction idea is same, only trigger bolt function is not precise equal.	Basic product.
EL162	EL141	- " -	Cylinder hole (shape of hole) is different.
Profile door locks			
EL060	EL040	- " -	Basic product.
EL062	EL041	- " -	Cylinder hole (shape of hole) is different.

Joensuu 29.1.2004

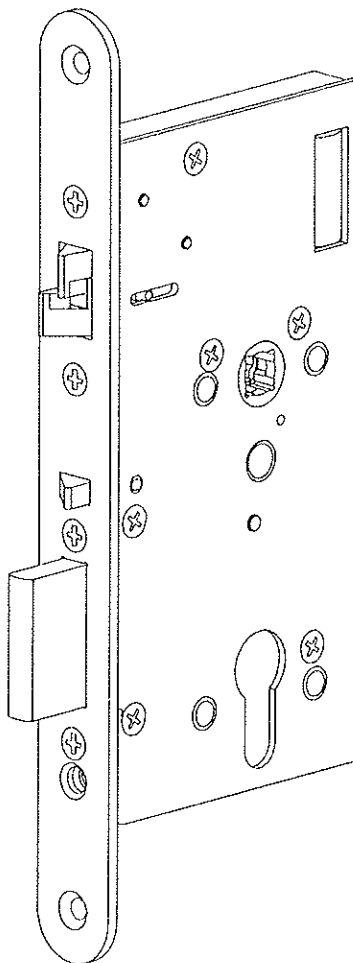
On behalf of Abloy Oy

APPENDIX NO.	1	2(2)
REPORT NO.	RTE 305/04	
SIGNATURE	<i>M. Linnanen</i>	
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Jari Kervinen
Jari Kervinen
Product Design Manager

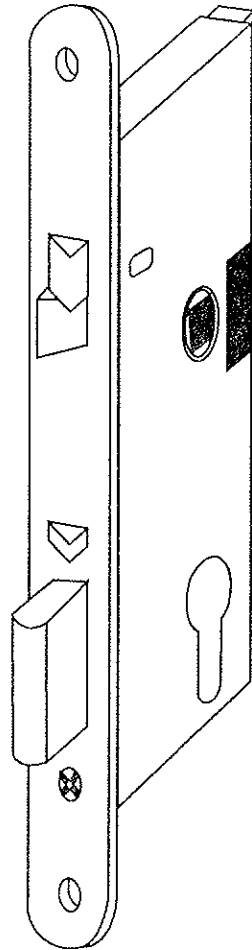
EL520

APPENDIX NO.	<u>2</u>	<u>1(8)</u>
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SIGNATURE	<u>M. Puuman</u>	
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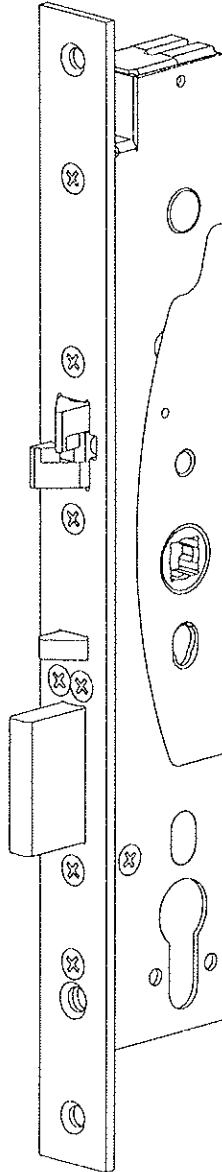


8120

APPENDIX NO.	<u>2</u> <u>2(8)</u>
REPORT NO.	<u>RTE 305/04</u>
SIGNATURE	<u>M. Pinner</u>
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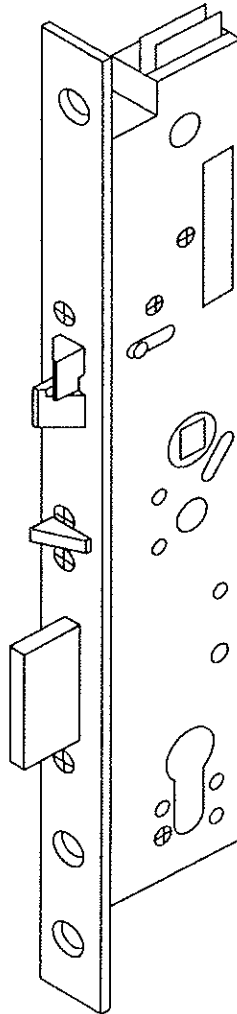
EL420



APPENDIX NO.	<u>2</u>	<u>3(8)</u>
REPORT NO.	<u>RTE 305/04</u>	
SIGNATURE	<u>M. P. ...</u>	
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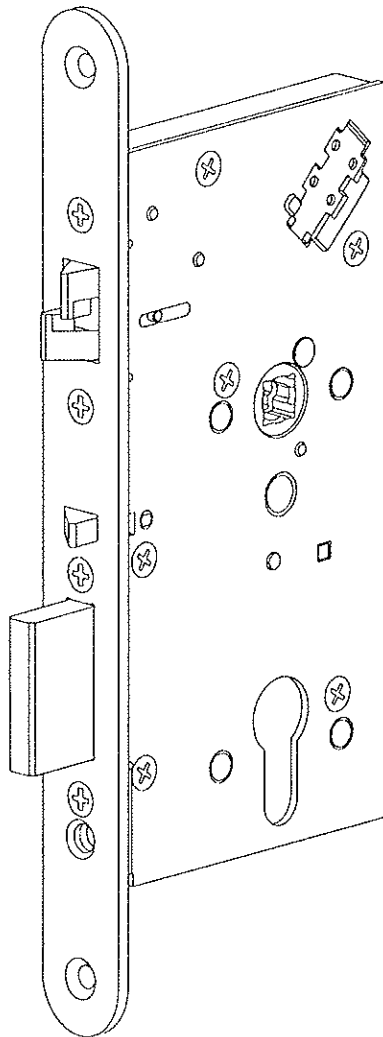
8320

APPENDIX NO.	<u>2</u> <u>4(6)</u>
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SIGNATURE	<u>M. Purnica</u>
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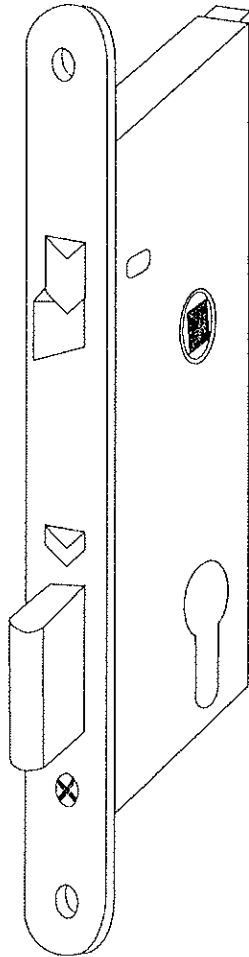
EL560
EL160
EL360

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SIGNATURE	<u>M. Linnarsson</u>	
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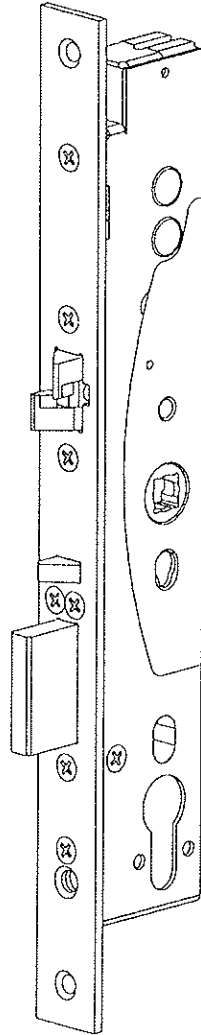
EL540
EL140
EL340

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SIGNATURE	<u>M. Linnar</u>
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EL460
EL060
EL260

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EL440
EL040
EL240

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