

## Statement on influence of door closers manufactured by ABLOY OY to the fire resistance of metal and glass doors

Requested by: ABLOY OY

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<b>Requested by</b>	Abloy Oy PL 108 (Wahlforssinkatu 20) FIN-80101 JOENSUU, Finland
<b>Order</b>	Telephone order by Mr. Esa Parjanen from ABLOY OY
<b>Contact person at VTT</b>	VTT TECHNICAL RESEARCH CENTRE OF FINLAND VTT BUILDING AND TRANSPORT Matti Immonen Kivimiehentie 4 P.O. Box 1803, FIN-02044 VTT, Finland Tel. + 358 9 45678081 Fax + 358 9 4564815 E-mail: Matti.Immonen@vtt.fi

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**Statement on influence of door closers manufactured by ABLOY OY to the fire resistance of metal and glass doors**

<b>Request for comments</b>	The client requests a statement concerning influence of door closer of types DC240 / DC241, DC233...235, DC247 and DC250 to the fire resistance of metal and glass doors.
<b>Test results</b>	Following test reports of VTT support this statement: <ul style="list-style-type: none"><li>• Test report No. RTE3169/02, 22 October 2002</li><li>• Test report No. RTE3846/02, 19 December 2002</li><li>• Test report No. RTE379/03, 16 May 2003</li></ul>
<b>Statement</b>	We state as our opinion that if above mentioned door closers are used in the metal or glass doors so the door closers do not decrease classification of the doors as shown below: <ol style="list-style-type: none"><li><i>1. The door closers can be used in the following doors that are classified according to <b>European standard EN 13501-2</b> (tested according to European standard SFS-EN 1634-1) without that classification of the door decrease:</i><ul style="list-style-type: none"><li>• Metal doors: Classes from EI<sub>1</sub> 15 to EI<sub>1</sub> 120 and Classes from EI<sub>2</sub> 15 to EI<sub>2</sub> 120</li><li>• Glass doors: Classes from EI<sub>1</sub> 15 to EI<sub>1</sub> 60 and Classes from EI<sub>2</sub> 15 to EI<sub>2</sub> 60</li></ul></li><li><i>2. The door closers can be used in the following doors that are <b>classified in Finland</b> without that classification of the door decrease:</i><ul style="list-style-type: none"><li>• Metal doors: Classes from EI 30 to EI 120</li><li>• Glass doors: Classes from EI 15 to EI 60</li></ul></li></ol>

Door closers can be equipped with different kind of arms as shown below:

Type of door closer	Type of arm
DC240, DC250 and DC247	DC194
DC240, DC241, DC233...235 and DC247	7199

In appendices number 1 to 4 is presented general drawings of the door closers. Complete drawings of the door closers are stored in the archive of VTT with this test report.

- Door closers shall be fixed according to the installation instructions given by Abloy Oy
- Retention force of the door closer shall be set according to the installation instructions given by Abloy Oy
- When the door is opened approximately 300 mm the door closer shall close the door

#### Annotation

If any changes are made to the construction of the door closers this statement is not valid.

This statement is not approval of product but evaluation of fire resistance of these constructions.

Espoo, 29 September 2003



Riitta Kajastila  
Group Manager



Matti Immonen  
Research Engineer

#### APPENDICES

Appendix 1	Drawing of door closer type DC233...235
Appendix 2	Drawing of door closer type DC240 / DC241
Appendix 3	Drawing of door closer type DC247
Appendix 4	Drawing of door closer type DC250

#### DISTRIBUTION

Client, 2	Original
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