

# Expert Opinion

# No. 120000213.61

2<sup>nd</sup> Copy**Contracting Party**

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**Date of order:**

20.04.2007

**Order**

The use of mounting plates made of steel in combination with door closer „DORMA TS 92 EN 2-4“ is to be validate by an expert opinion.

**Basics**

- Test report no. 12001226.10-01 of MPA NRW
- 1 mounting plate for DORMA TS 92 in the tested construction made of Z40
- 1 mounting plate for DORMA TS 92 made of steel
- drawings of the mounting plates made of steel.
- DIN EN 1154:2003-04 „Locks and building fittings- Controlled door closing devices-Requirements and test methods“; German Version EN 1154: 2003-04.

**Validation**

The mounting plates to be validated are concerning the place of the fixing holes and the depth of the winding identical with the tested version. The thickness of the new plates is 2.5 mm less then the thickness of the current one, but because of the design the overall thickness is 5mm also.

The height of the complete door closer is the same.

The tested Plates were made of Z40

The new variant is made of ZSte420.

The material have got the following mechanical properties:

product	material	Tensile strength in N/mm <sup>2</sup>	Yield point in N/mm <sup>2</sup>
Mounting plate DORMA TS 92 EN 2-4 (new)	ZSte420	480 – 620	420 -540
Mounting plate DORMA TS 92 EN 2-4 (current)	Z 410	280-350	220-250

### Expert opinion

The mounting plates made of ZSte420 are valid for the use with door closers DORMA TS 92EN 2-4. The mounting positions do not change. The mounting of the plate on the door and the mounting of the door closer is equal to the tested version.

The use mounting plate made of steel with a thickness of 2.5 mm instead of the plates used before is uncritical, because of the higher strength of the steel (ZSte 420) and the new design.

Dortmund, June, 13th 2007

By order

*Jansen*



Dipl.-Ing. H. Jansen  
Regierungsbauoberamtsrat

