

Expert Opinion

No.

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Contracting Party

DORMA GmbH & Co. KG
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Date of order:

20.04.2007

Eingang der Unterlagen:

03.05.2007 bis
 24.05.2007

Order

The use of mounting plates made of steel in combination with door closer „DORMA TS 93 EN 2-5“ is to be validate by an expert opinion.

Basics

- Test report no. 12 0370 5 97-01 of MPA NRW
- 1 mounting plate for DORMA TS 93 in the tested construction made of AlMgSi 0,5 F22
- 1 mounting plate for DORMA TS 93 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 height of the complete door closer is the same.

The tested Plates were made of AlMgSi 0,5 F22.

The new variant is made of ZSte420.

The material have got the following mechanical properties:

product	material	Tensile strength in N/mm ²	Yield point in N/mm ²
Mounting plate DORMA TS 93 EN 2-5 (new)	ZSte420	480 – 620	420 -540
Mounting plate DORMA TS 93 EN 2-5 (current)	AlMgSi 0,5 F22	160	215

Expert opinion

The amounting plates made of ZSte420 are valid for the use with door closers DORMA TS 93 EN 2-5.

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, den 13.06.2007

Im Auftrag

Jansen



Dipl.-Ing. H. Jansen
Regierungsbauoberamtsrat

