



TS 93



Environmental Product Declaration

according to ISO 14025



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TS 93 EN 2-5 Door Closer DORMA GmbH + Co. KG

Declaration number: EPD-DOR-2011111-D



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Condensed version Environmental Product Declaration

Programme holder: **Institute of Construction and the Environment e.V. (IBU)**
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Declaration holder: **DORMA GmbH + Co. KG**
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Deklaration number: EPD-DOR-2011111-D



Declared construction products: **DORMA TS 93 EN 2-5 cam-action door closer**

This Declaration is an Environmental Product Declaration in accordance with ISO 14025 and describes the specific environmental features of the construction products outlined here. Its purpose is to promote the development of construction which is compatible with the environment and health. This validated Declaration discloses all of the relevant environmental data. The Declaration is based on the PCR document entitled "Locks and Fittings: 2012-12".

Validity: This validated Declaration entitles the holder to bear the symbol of the Institut Bauen und Umwelt e.V.. It applies exclusively to the products referred to for a period of three years from the date of issue. The Declaration holder is liable for the details and documentation upon which the evaluation is based


Content of the Declaration: The Declaration is complete and comprises in detail:


- Product definition and physical construction data
- Details on base materials and material origin
- Description of the product manufacturing process
- Information on product processing
- Data on the utilisation status, exceptional influences and re-use phase
- Results of the life cycle assessment
- Documentation and tests

Issue date: March 24, 2011

Signatures: 
Prof. Dr.-Ing. Horst J. Bossenmayer (President of the Institut Bauen und Umwelt)

Audit declaration: This Declaration and the regulations upon which it is based have been audited by the independent Committee of Experts (SVA) in line with ISO 14025.

Signatures: 
Prof. Dr.-Ing. Hans-Wolf Reinhardt (Chairman of the SVA)

Signatures: 
Dr. Frank Werner (auditor appointed by the SVA)

Product description: The DORMA product designated TS 93 EN 2-5 is a cam-action door closer with slide channel, styled in the DORMA-specific "Contur" design. The TS 93 system is a multi-functional cam-action door closer system of modular structure. The TS 93 bears the CE mark.

Area of application: The areas of application of the declared product are: overhead door closer (cam-action door closer system with slide channel) for internal/interior doors, mounted either on the door leaf or on the door frame transom/top jamb, and either on the pull (hinge) side or the push (opposite hinge) side of the door.

Life cycle assessment framework: The life cycle assessment was performed in accordance with /DIN EN ISO 14040/ and /DIN EN ISO 14044/ in line with the requirements of the guidelines to Type III Declarations published by the Institute of Construction and the Environment e.V. (IBU) and specific regulations governing locks and fittings provided by Fachverband Schloss- und Beschlagindustrie e.V. The data applied included specific data pertaining to the analysed product and data from the "ecoinvent" database. The life cycle assessment encompasses the extraction of raw materials and energy generation/consumption, raw materials transport, the actual manufacturing phase and the end-of life phase including the material and energy recovery processes. The Declaration relates exclusively to the TS 93 EN 2-5 door closer.

Results of the life cycle assessment:

DORMA TS 93 EN 2-5 cam-action door closer				
Analysis factor	Units per piece	Σ (manufacture + disposal)	Manufacture	Disposal
Non-regenerative primary energy	[MJ]	167,5	186,0	-18,6
Regenerative primary energy	[MJ]	13,8	20,6	-6,77
Global warming potential (GWP 100years)	[kg CO ₂ - equiv]	12,83	14,82	-1,98
Ozone depletion potential (ODP)	[kg CFC11 - equiv]	1,01E-06	1,01E-06	4,03E-09
Acidification potential (AP)	[kg SO ₂ - equiv]	0,055	0,065	-0,009
Eutrophication potential (EP)	[kg PO ₄ - equiv]	0,035	0,037	-0,002
Photochem. ozone creation potential (POCP)	[kg Ethylen - equiv]	0,004	0,005	-0,001
The values indicated are based on the functional unit of "one piece" representing the sum of closer body, slide channel and packaging pertaining to the TS 93 EN 2-5.				

Prepared by : brands & values GmbH, Bremen
in Zusammenarbeit with DORMA Holding GmbH + Co. KGaA, Ennepetal.

Documentation and tests: No documentation required in accordance with the PCR.

brands & values

