



ENVIRONMENTAL DECLARATION

Product, brand name, item no., etc.: DORMA TS 83

Type of product: Door Closer

Company information

Manufacturer of the product: DORMA GmbH + Co. KG

Supplier of the product:

This form was filled in by: Guenter Gollnik date: 10.09.98

Contact person regarding product issues:

Telephone number: +49 2333 793 789 Fax number: +49 2333 793 617

Do the manufacturer and the supplier have a manager or a person that is responsible for environmental issues?

Manufacturer Yes No Supplier Yes No

If yes, please state name: Joachim Balzer

Do the manufacturer and the supplier have an environmental policy?

Manufacturer Yes No Supplier Yes No

If yes, enclose a copy of the environmental policy.

Are the manufacturer and the supplier working according to an environmental management system?

Manufacturer Yes No Supplier Yes No ISO 14000

If yes, please state which system. If the companies are registered, please state the registration number:

Product information

The product may be used for the following purpose(s): Closing and controlling of doors

Please enclose user's manual together with recommendations regarding installation, usage, maintenance and repair and safety instructions.

Does the product carry any environmental label? Yes No

If yes, please state name and certificate number:

Weight of the product (per piece, m² or other suitable unit): 2,4 kg / piece

Product composition

Please state all of the product's components (as % of its weight) and specify the composition of the various components. State whether the components do not contain any substances from the Swedish National Chemicals Inspectorate's "List of Restricted Chemical Substances" and/or "Observation list". Also state if the substances are not classified as allergenic (according to 94/69/EC).

Products components	As % of weight	Specification of component's composition	No substance(s) from:		
			List of Restr.	Obs.list	Allergy (EC)
		Parts list enclosed	ρ	ρ	ρ
			ρ	ρ	ρ
			ρ	ρ	ρ
			ρ	ρ	ρ
			ρ	ρ	ρ
			ρ	ρ	ρ

Enclose, when available, Material Safety Data Sheet (according to 93/112/EEC) for all components together with Material Safety Data Sheet for the assembled product.

PRODUCT COMPONENTS DORMA TS 83

Product's components	Weight Kg	As % of Weight	Specification of component's composition	No substance(s) from:		
				List of Restr.	Obs. List	Allergy (EC)
Carton	0,118	5,02%	Cardboard	X	X	X
Lock screw	0,012	0,51%	Steel 8.8	X	X	X
12 x fixing screws	0,056	2,38%	Steel 4.8	X	X	X
Housing / closer body	0,980	41,67%	Aluminium Gk-ALSi6Cu4	X	X	X
3 x steel ball	0,003	0,13%	Steel 100Cr6	X	X	X
Snap ring	0,004	0,17%	Spring steel	X	X	X
End cap	0,032	1,36%	Aluminium AlCuMgPb	X	X	X
3 x Regulating valve	0,008	0,34%	Zinc / POM (Polyoxymethylen)	X		X
Outer spring	0,204	8,67%	Spring steel	X	X	X
Inner spring	0,144	6,12%	Spring steel	X	X	X
2 x bearing housing	0,046	1,96%	Steel 9SMnPb36K	X	X	X
2 x needle bearing	0,016	0,68%	Steel 100Cr6	X	X	X
Gear washer	0,002	0,09%	Steel C75	X	X	X
Pinion	0,114	4,85%	Steel 16MnCr5	X	X	X
Spring adj. screw	0,038	1,62%	Steel 45S20k	X	X	X
Disc washer	0,001	0,04%	Steel 1203	X	X	X
Retaining ring	0,001	0,04%	Spring steel	X	X	X
Pressure disc	0,028	1,19%	Steel 9SMnPb28K	X	X	X
Checkball bushing	0,002	0,09%	ABS (Acrylnitril-Butadien-Styrol)	X		X
Bushing	0,004	0,17%	Brass	X	X	X
Relief valve plug	0,001	0,04%	POM (Polyoxymethylen)	X		X
Spring	0,001	0,04%	Spring steel	X	X	X
Pin	0,001	0,04%	Steel 9SMnPb28k	X	X	X
Cushion BC valve	0,006	0,26%	Zinc	X		X
Piston	0,394	16,75%	Steel 16MnCrS5	X	X	X
8 x o-ring	0,002	0,09%	NBR (Butadien-acrylonitrile-copolymer)	X		X
Water-soluble paint	0,006	0,26%	LITAL-paint 80-4650-0008 (Material Data Sheet)	X		X
Hydraulic oil typ	0,128	5,44%	DS 16FTV (Material Data Sheet)	X	X	X
	2,352	100%				

ENVIRONMENTAL DECLARATION

Environmental performance

1. Consumption of raw material

Is any recycled material part of the product? Yes No

If yes, please specify what kind and in what proportion (%):

Is any renewable material part of the product? Yes No

If yes, please specify what kind and in what proportion (%): recycling of iron- and aluminium scrap

2. Production of the product

What kind of energy source(s) is/are used when the product is manufactured? electricity

State the energy consumption for manufacturing the product (kWh per unit e.g.kg, m² or piece): ca 5,5 KW/h

What kind of discharges to ground, atmosphere and water are occurring by manufacturing the product? State present requirements and limits of these discharges according to existing law:

3. Discription of product

Location of manufacturing (place, country): DORMA Ennepetal, Germany - DORMA Singapore

What mode(s) of transport is/are used? Ship

What company will transport the product?

Where is/are the warehouse(s) located?

What materials are used to package the product? cardboard

The average amount of packaging material per kg of the product (state the weight for each material separately):

0,120 kg / piece - cardboard

Is there any recycling system for the packaging material? Yes No

If yes, please provide its name and a description: standard cardboard and paper recycling

Recycling of iron- and aluminium scrap

Are you a member of the Swedish producer responsibility register for packaging materials (REPA)?

Yes No If yes, please state corporate identity number:

4. Building phase

Are there any working environment risks documented by handling the product during the installation and building phase? Yes No If yes, what kind of risks?

Is any protection equipment required to handle the product during the installation and building phase?

Yes No If yes, what kind of equipment?

Is it possible to obtain products with adjusted proportions? Yes No

5. Usage Phase

What kind of maintenance is required? none

If the product consume energy or water during usage, state the consumption here:

What lifetime is expected for normally use of the product (state according to a standard for the line of the business if such exist)? 20 years

6. Demolishing

How do you dismount the product? Dismounting of serveral screws, iron- and aluminium parts

7. Residual products (Comprehends packaging and residual products from the building and demolishing phase.)

Is the supplier prepared to recover a worn out product? Yes No

If yes, please state how recovered worn out products are handled? Taking back for dismounting and scrapping the metal parts

Who is responsible for the retransport of a worn out product? Local branches

Is it possible to re-use the product and the packaging? Yes No If yes, please state how:

Recycling of metal parts and packing separately

Is it possible to recycle the material of the product and the packaging? Yes No

If yes, please state how:

Is it possible to extract energy form the material of the product and the packaging? Yes No

If yes, please state how:

8. Waste products

Is a worn out product classified as hazardous waste (according to 94/31/EC)? Yes No

If yes, please state reason(s):

9. Indoor environment

Is the product containing substances classified as allergenic (according to 94/69/EC) or other substances known as having influence on health Yes No If yes, which substance(s)?

Have emissions from the product been measured? Yes No

Have emissions from the product, in combination with other products, been measured? Yes No
Please enclose report(s) of results from measurements of emissions.

If the product cause any sound and/or other disturbances, then state loudness and/or disturbances here:

10. Other information