

# ENVIRONMENTAL PRODUCT DECLARATION

**Product name: *Swing Door Operator 'PowerSwing'***

## 1. Company Information

Manufacturer Besam Production AB  
 Production Site Landskrona, Sweden  
 Supplier  
 Environmental management/  
 Environmental marking: Environmental policy yes, environmental goals under development  
 Quality System Yes, certified in accordance with ISO 9001, LRQA No. 956538

## 2. Product, general

Product Type Swing Door Operator  
 Application Automatic opening and closing of doors and gates  
 Weight/Density Approx. 11.8 kg/unit (length 0.730 m including cover)  
 Type Approval Yes  
 CE-marking Yes

## 3. Declaration of contents

***Swing Door Operator 'PowerSwing'***

Substance/material	Weight %	Observation (see also below under comments	Incorporated in Swedish Chemical Inspectorate (KemI) publications *
Steel	≈ 43.4	Pistons, spring retainer, ball bearings, springs, shafts, gear wheel, valve house, motor, transformer, etc.	
Aluminium	≈ 34.4	Oil box, end, bearing, pump house, motor, cover, profile, etc.	
Zinc	≈ 8.0	Valve house	
Copper <sup>1</sup>	≈ 6.3	Motor, transformer, control unit, cabling	O
Hydraulic oil	≈ 3.2	Zinc-free petroleum for the servo	
Plastic (PVC <sup>3</sup> , polyamide, ABS, polypropene, acetal, PTFE)	≈ 2.8	Cabling, transformer, ends seal	
Electronics	≈ 1.2	Control unit (contains copper <sup>1</sup> , lead <sup>2</sup> , etc), capacitor	B, O
Rubber (EPDM, nitrile)	≈ 0.4	Vibration damper, seals	
Brass	≈ 0.3	Valve screws, cabling	

\*) B = Restricted use list, O = N.B. list (OBS-listan), A = Allergy and chemical products.  
 The aluminium and steel included in the product partly consist of recycled material.

### Comments:

1) Copper is included in the N.B. list (OBS-listan), inter alia because of the substance's toxicity for creatures living in water. During period of use, neither health nor environment suffers negative effects but the substance may limit the handling of residual products.

2) All use of lead should be phased out in the longer term for which reason it is included on the lists referred to. During period of use, neither health nor environment suffers negative effects, but the substance may limit the handling of residual products.

3) Contains small quantities of formaldehyde which, inter alia, is allergy/inducing, although during period of use it cannot be considered to be injurious to health or the environment. On heating, however, large quantities of formaldehyde are formed.

#### 4. Packing/packageing

Material and quantity	Corrugated board 0.59 kg ESP cellular plastic 0.13 kg
Handling	Firstly, materials recycling and, secondly, energy recovery through combustion
REPA-member	Yes

#### 5. Distribution

Distribution system	The products are delivered mainly by truck from a central warehouse in Landskrona to the building site.
Freight forwarders	ASG and BTL. ASG has an environmental policy and environmental management system and uses diesel of environmental class 1. BTL has an environmental policy and uses diesel of environmental class 1.

#### 6. Environmental effect during period of use

The product requires regular preventive maintenance. The product's service life may be shorter than the building's for which reason a replacement period may arise.

#### 7. Taking care of residual products

Hazardous waste	The hydraulic oil may comprise slag products. Used hydraulic oil is delivered to the environmental station or equivalent.
Residual product handling	In the first place recycling, in second place materials recovery and lastly storage. The manufacturer takes back residual products.

#### 8. Health and working environment

Health and user aspects/ Internal environment	No health risks are documented.
Working environment risks	No working environment risks are documented.

#### 9. Other