

## ENVIRONMENTAL PRODUCT DECLARATION

Product name: *Sliding Door Operator 'UniSlide' and 'UniSlide-T'*

### 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	Sliding Door Operator
Application	Automatic opening and closing of doors and gates
Weight/Density	UniSlide: approx. 43 kg/unit (standard length 4.0 m) UniSlide-T: approx. 66 kg/unit (standard length 4.0 m)
Type Approval	Yes
CE-marking	Yes

### 3. Declaration of contents

#### *Sliding Door Operator 'UniSlide'*

Substance/material	Weight %	Observation (see also below under comments)	Incorporated in Swedish Chemical Inspectorate (KemI) publications *
Aluminium	≈ 79.8	Profiles, drive unit, door adapter	
Steel	≈ 14.9	Drive unit, control unit, carriage wheel, bearing	
Plastic (ABS, polypropene, acetal, PA)	≈ 2.3	Cover ends, sliding track, worm wheel	
Electronics	≈ 0.9	Contains a.o. PVC <sup>3</sup> , copper <sup>1</sup> , brass, lead <sup>2</sup> , etc	B, O
Rubber (massive chloroprene)	≈ 1.0	Tooth belt	
Batteries (NiMH)	≈ 0.7	Contains aluminium, manganese, magnesium, nickel <sup>4</sup> , cobalt <sup>5</sup>	A, O
Copper <sup>1</sup>	≈ 0.4	Motor, cabling	O
Cabling	≈ 0.05	Contains a.o. copper <sup>1</sup> and PVC <sup>3</sup>	O

#### *Sliding Door Operator 'UniSlide-T'*

Substance/material	Weight %	Observation (see also below under comments)	Incorporated in Swedish Chemical Inspectorate (KemI) publications *
Aluminium	≈ 78.9	Profiles, drive unit, door adapter	
Steel	≈ 16.6	Drive unit, control unit, carriage wheel, bearing	
Plastic (ABS, polypropene, acetal, PA)	≈ 2.5	Cover ends, sliding track, worm wheel	
Electronics	≈ 0.6	Contains a.o. PVC <sup>3</sup> , copper <sup>1</sup> , brass, lead <sup>2</sup> , etc	B, O
Rubber (massive chloroprene)	≈ 0.7	Tooth belt	
Batteries (NiMH)	≈ 0.4	Contains aluminium, manganese, magnesium, nickel <sup>4</sup> , cobalt <sup>5</sup>	A, O
Copper <sup>1</sup>	≈ 0.2	Motor, cabling	O
Cabling	≈ 0.03	Contains a.o. copper <sup>1</sup> and PVC <sup>3</sup>	O

\*) 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) When making PVC-plastic, chlorine organic combinations are dumped into air as well as water. Swedish Environmental Protection Agency (Naturvårdsverket) judges that the dumping contains so small quantities that health does not suffer negative effects. On heating, however, large quantities of formaldehyde are formed.

4) Nickel is included in the N.B. list (OBS-listan) , inter alia because of the substance's toxicity for creatures living in water, although cannot be considered to be injurious to health or the environment. The substance is included in the N.B. list (OBS-listan) and in the Allergy and chemical products list.

5) Cobalt is included in the N.B. list (OBS-listan) , inter alia because of the substance's toxicity for creatures living in water, although cannot be considered to be injurious to health or the environment. The substance is included in the N.B. list (OBS-listan) and in the Allergy and chemical products list.

**4. Packing/packageging**

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, BTL. And GeoLogistics AB. 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. GeoLogistics AB has an environmental policy and uses diesel of environmental class 1, and are under development to become certified according to ISO 14001.

**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	-
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**

The batteries are of a nickel metal hybrid type (NiMH). NiMH is the only battery type, which does not contain any environmentally dangerous heavy metals, and it is therefore less environmentally dangerous than other types of batteries.