

SWEDISH TECHNICAL APPROVAL 0166/99

and decision on production control in accordance with 18-20 § Law (1994:847) on technical specification requirements for construction work, etc., BVL

KEYWORDS: FIRE PROTECTION

Door closer

PowerSwing (SDA) and EMSW swing door operator

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Product	Besam swing door operators type PowerSwing (SDA) and EMSW. Swing door operators activated by contact or impulse generator. See under the heading of Comments.		
Intended use	To hold a door leaf in closed position in the event of a fire. As an alternative to a lock with a latch bolt, for doors up to class E 30, EI 30 and A 30 that are tested without latch bolt and with a closing force at the bracket in upper edge of door leaf, and also listed in the associated document "Doors for which a lock with a latch bolt can be replaced with a Besam PowerSwing (SDA) or EMSW swing door operator"		
Trade name	Besam PowerSwing (SDA) and EMSW swing door operators		
Approval	Doors, listed in the associated document, that are fitted with the above mentioned swing door operators meet the requirements in 2 § 2 BVL, with respect to, and on the conditions stated in this certificate, and are therefore approved with regard to the requirements in the following sections of the Building Regulations of the National Board of Housing, Building and Planning (BBR):		
	Protection against the spread of fire between fire compartments	5:6214	
	Doors in escape routes (manual opening)	5:342	
Appurtenant documents	Besam PowerSwing, Installation manual, "Installations- och Servicemanual", FAA074E0SE, dated 2005-08-24. Users manual, "Besam Slagdörrsöppnare PowerSwing/OPB-A, användarmanual", FAA077A0SE, dated 2005-08-24 List "Doors for which a lock with a latch bolt can be replaced with a Besam PowerSwing (SDA) or EMSW swing door operator" dated 2005-10-07.		



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Control

Manufacturing control is to be performed in accordance with instructions for control dated 2005-09-23, with registration no. 210-97-0863, and be supervised by an independent third party body, Swedish National Testing and Research Institute (SP).

By identifying the product by means of the marking, inspection by the owner on the building site will ensure that the correct product has been delivered. The inspection will further ensure that workmanship and assembling complies with the specifications in the associated documents. The opening force, at the front edge of the door, is to be at least 100 N or 67 N respectively (see the list "Doors for which a lock with a latch bolt can be replaced with a Besam PowerSwing (SDA) or EMSW swing door operator") for fire doors complying with BBR 5:6214 and must not exceed 130 N for a door in an escape route, complying with BBR 5:342.

The opening forces are to be measured in accordance with SS-EN 1154, at least four times a year, at an opening angle of 0°, and be recorded. There will be information about this control in the instructions for supervision of escape routes, which, in accordance with BBR 2:41, should be included in the written instructions for how testing, care and maintenance shall be carried out.

The inspection will further ensure that the product is accompanied by the manufacturer's declaration of conformity.

If automatic activation units are used, their operation should be checked as described in Comments.

Manufacturer

The production control is valid for the following site of manufacture:
Besam Production AB, Landskrona

Marking

The swing door operators shall be marked at the factory. The marking consists of a sign on every operator supplied and includes:

Manufacturer's name and site of manufacture	Besam, Landskrona
The National Board of Housing,	
Building and Planning's registered trademark	†
SITAC's accreditation number	SITAC 1422
The make and model of the product	PowerSwing (SDA) or EMSW
The number of the Type Approval Certificate	0166/99
Scope of the approval	Replaces a lock with a latch bolt for type approved swing doors, according to list.
Serial number and week	no./date
Inspecting body	SP



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**Basis for
approval**

Reports No P104124, 99R13305, 98R13077, 97R13048 and 96R12867 from the Swedish National Testing and Research Institute (SP).
Reports No 250000.45/94.043, 250000.20/93.329 and 846000.14796.514 from SINTEF. Report G10420 from DBI.

Comments

To avoid unintentional opening of the door in case of fire, one of the following conditions must be met:

- That only elbow contact or a pushbutton is used as impulse unit to open the door.
- If automatic activation units are used, they must be disabled by a signal from the central fire alarm system or separate smoke detectors. They must also be disabled if there is a power cut. Smoke detectors shall be arranged that they disconnect the signal cable from the automatic activation units to the automatic door mechanism, both when they are active or inactive.

When establishing (in accordance with BBR 2:42) that fire protection installations are ready for operation, the function of any smoke detectors is to be checked.

Necessary reinforcement of the door leaves is described in the type approval certificate for each door, as shown in the list in the associated document.

The swing door operators are type approved with regard to safety, when used in accordance with type approval certificate no. 0710/97.

This certificate replaces an earlier certificate with the same number, dated 2004-12-07 and with project number T000582-03.

**Period of
validity**

The approval is valid until 2009-09-30.

The formal validity of an approval expires after the transitional period for the harmonised specification that makes it possible to CE-mark the product. However, the technical assessment showing that the product fulfils the requirements in the building regulations, issued by the Swedish National Board of Housing, Building and Planning, is not affected.

Johan Åkesson

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