

Notified Body n° 0426

# CONFORMITY CERTIFICATE

## OF A TYPE-EXAMINATION

### ASC002AC002/e

**Name and address of certificate holder:** BRUGG DRAHTSEIL AG  
Wydenstrasse 36  
**CH-5242 BIRR**

**Product description:** 6.7 mm Rope System

**Date of submission:** 30-07-2009


**EC-Directive:** Lift Directive 95/16/EC and subsequent modifications (Directive 2006/42/EC).

**Certificate date:** 29-12-2009

**Statement:** Under the conditions described in the Annex to this certificate, the "6.7 mm rope system" conforms as traction and suspension equipment to the directive's essential safety requirements.

**Validity conditions:** This conformity certificate may only be used in connection with its annex.  
Lifts equipped with the "6.7 mm rope system" must be installed and put into service according to the relevant laws of every State, as member of the European Community.  
A periodical control of the production, performed by a Notified Body, is required.

Milan, 29-12-2009

**ITALCERT S.r.l.**  
Dr. Ing. Roberto Cusolito  
Direttore Generale

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# ANNEX TO CONFORMITY CERTIFICATE

## ASC002AC002/e

### 1. Description of the "6.7 mm rope system"

Scope of application for lifts designed accordingly to the Lift Directive 95/16/EC and subsequent modifications (Directive 2006/42/EC):

- |     |  |   |
|-----|--|---|
| 1.1 | Permissible rope type:                             | Rope type TSR, 6x19W-IWRC-1960-B-SZ<br>Nominal diameter 6.7 mm<br>Tensile strength of 1960 N/mm <sup>2</sup><br>Minimum breaking load 31.3 kN<br>Calculated breaking load 44.9 kN<br>Calculated weight 20.0 kg/100 m<br>Section 22.92 mm <sup>2</sup>                           |
| 1.2 | Permissible number of ropes:                       | ≥ 3   |
| 1.3 | Permissible rope terminations:                     | All ends listed in paragraph 9.2.3 and 9.2.3.1 of EN 81-1   |
| 1.4 | Permissible traction sheaves:                      | a) Diameter ≥ 210 mm <b>and</b><br>b) Material: Steel and/or grey cast iron (soft or hardened) <b>and</b><br>c) V-groove angle with undercut $\gamma \geq 45^\circ$ <b>and</b><br>d) Undercut angle $\beta \leq 95^\circ$ <b>or</b><br>e) Half-circular groove without undercut |
| 1.5 | Permissible deflection pulleys:<br>(when existing) | a) Diameter ≥ 210 mm <b>and</b><br>b) Material: Steel or Grey cast iron or Plastic  |

### 2. Conditions

Before putting into service lifts equipped with the „6.7 mm rope system“, operating instructions including at least the following documents and advices must be released by the installer:

- a) Calculation of the rope safety factor according to EN 81-1, paragraph 9.2.2 and Annex N **and**
- b) Calculation of rope traction according to EN 81-1, paragraph 9.3 and Annex M **and**
- c) Instructions for use and maintenance, explaining following warnings:
  - Rope tests must be carried out at least every 2 years as part of a main periodical inspection and every year as part of intermediate inspection
  - For the evaluation process for defining ropes' replacement conditions in case of broken wires has to be taken into consideration the DIN 15020 - part 2 standard. Furthermore, it has to be referred to the lifting equipment group 2 m ÷ 5 m chart:
    - Number of permissible broken wires: 10 on a rope length of 6 x Ø
    - Number of permissible broken wires: 19 on a rope length of 30 x Ø
  - Diverting from the above mentioned DIN 15020, ropes must be put out of service when the diameter has reduced more than 6%.

This conformity report is valid only for the ropes submitted to the evaluation test. All the other ropes have to be singularly tested and be delivered with a test report, which states that the conditions of this certificate are valid also for those ropes.

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