ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Industrie Service

Certificate

about the energy efficiency of lifts according to VDI 4707 Part 1

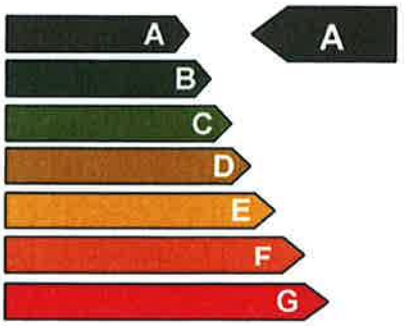
TÜV SÜD Industrie Service GmbH
Geschäftsfeld Fördertechnik
Westendstr. 199, 80686 München – Deutschland
attests the operating company

Inventio AG
Seestraße 55,
6052 Hergiswil - Switzerland

that the lift facility hereinafter called
is permitted to be labeled with the
energy efficiency class as followed:

Manufacturer:	Schindler Aufzüge AG
Location:	Schindler Elettroica SA Via della Place 22 6600 Locarno - Switzerland
Lift model:	Schindler 3300
Serial no.:	31032006
Lift type:	Passenger lift
Nominal load:	535 kg
Nominal speed:	1,0 m/s
Operating days per year:	365
Standby demand:	**Specific travel demand**
43 W (energy demand class A)	0,77 mWh/(kgm) (energy demand class B)
Usage category 1 according to VDI 4707 Comparisons of energy efficiency classes is only possible under equal usage.	
Date: 2010-10-05 Reference: VDI 4707 Part 1 (issue 03-2009)	

Energy efficiency class



Nominal demand per year for nominal values as shown:
482 kWh

This certificate is valid until the next modification of the lift.
Certificate registry number: 10.10.44373.001
Munich, 2010-11-28

Certification body for lifts and safety components

Christian Rührmeyer

TÜV SÜD Industrie Service GmbH

Note:
TÜV SÜD Industrie Service GmbH is also notified according to the Lift Directive 95/16/EC, Identification number 0036

TÜV®

Industrie Service

Choose certainty.
Add value.

Test report no. EEA 10.10.44373.001

Applicant/ Certificate holder	Inventio AG Seestrasse 55 6052 Hergiswil - Switzerland
Manufacturer	Schindler Aufzüge AG
Operator	Inventio AG Seestrasse 55 6052 Hergiswil - Switzerland
Date of application	2010.10.05
Contract number	156 15 64
Inspection Body / Department	TÜV SÜD Industrie Service GmbH Zentralbereich Fördertechnik - Sonderbauten Gottlieb-Daimler-Str. 7 70794 Filderstadt - Germany
Test object	Passenger lift
Type	Schindler 3300
Serial no.	31032006
Inspection order / Purpose of measurement	Assessment of energy efficiency on a defined elevator
Test Specification	VDI 4707 - part 1 issued march 2009
Test scope	Measurement / calculation of energy consumption on lift systems and classification as per the test specifications.

Date: 2010.10.05

Our reference:
IS-FSA-STG

Document:
PB_EEA10.10.44373.001_20101005_en

This document consists of
4 Pages.

The test results refer exclusively to the units under test..

Headquarters: Munich
Trade Register Munich HRB 96 869
VAT ID No. DE129484218
Information pursuant to Section 2(1)
DL-InfoV (Germany) at
www.tuev-sued.com/imprint

Supervisory Board:
Peter Kardel (Deputy Chairman)
Board of Management:
Ferdinand Neuwieser (CEO),
Dr. Ulrich Klotz, Thomas Kainz

Telefon: +++49 711 / 7005-751
Telefax: +++49 711 / 7005-588
www.tuev-sued.de/is

TÜV SÜD Industrie Service GmbH
Niederlassung Stuttgart
Zentralbereich Fördertechnik -
Sonderbauten
Gottlieb-Daimler-Str. 7
70794 Filderstadt - Germany
Deutschland

Industrie Service

1 Description of the Test Object

Technical data:

Lifting height [m]	7,4	travel rate per day	195
rated speed [m/s]	1,0	Ø standby time [h]	23,8
mode of drive	traction sheave	Ø travel time per day [h]	0,2
nominal load [kg]	535	load factor: 0,7 / 1 / 1,2	0,7
		calculated travel time [h]	0,20

Load factor: load spectrum → factor = 1, lifts with counterweight (40 – 50% balance coefficient) → factor = 0,7, lifts without compensation weight or with compensation weight of up to 30% of the car weight → Factor = 1,2

2 Documents which are the basis of the tests

Lift book / measurement report

3 Testing procedures

3.1 Defaults

The applied procedure is described in VDI 4707 part 1.

3.2 Tests in Detail

3.2.1. Measuring of energy consumption levels:

- In power circuit:
  Standby [W], reference trip [Wh]
- In light circuit:
  Standby [W], reference trip [Wh]

3.2.2. Determination of usage category:

with the aid of the table stated in the guideline

3.2.3. Determination of energy demand class

Industrie Service

4 Details of test procedure

4.1 Test location

Schindler Elettronica SA
Via della Place 22
6600 Locarno - Switzerland

4.2 Date of test

2010.10.05

4.3 Participants

Kai Kügler, Urs Lindegger

4.4 Inspections means which have been used

| P1 | Fluke 1735 Power Logger QS Nr. 004 04467

Industrie Service

5. Findings

The measurements have been carried out as described in VDI 4707 part 1, issued March 2009.

Number of reference trips: 3

Standby	Measurement result	
P light circuit. [W]:	0	
P power cirqult [W]:	43	
Travel	**Measurement result**	**Test result**
P light circuit.[Wh]:	1.1	.366666666666667
P power circuit [Wh]:	25	8.33333333333333

6. Test result

Usage category	1

travel	Test result		Standby	Prüfergebnis
E reverence trip [Wh]:	8,7		P standby [W]:	43
E travel/spec [mWh/kgm]:	0,77		E standby/day [Wh]:	1023
Energy demand class travel	B		Energy demand class Standby	A

	Test result
E travel/day [Wh]	296
E lift/day [Wh]	1320
E lift/year [kWh]	482

	Test result
E lift/spec [mWh/kgm]	3,43
Energy efficiency class lift	A

7. Remarks

Without evacuation system

Prüflaboratorium für Produkte der Fördertechnik
Prüfbereich Aufzüge und Sicherheitsbauteile

The expert

Thoralf Mühre

Kai Kügler