



**TÜV NORD CERT**

**Certificate about the testing of the  
degrees of protection provided by enclosures**

Testing laboratory  
Safety of technical systems

**Client:** Rolec  
Gehäuse-Systeme GmbH  
Kreuzbreite 2  
D – 31737 Rinteln

**Devices under test:** Enclosure series aluCase  
Types:  
AC 090, AC 092, AC 150, AC 152, AC 170, AC 172  
ACF 110, ACF 112, ACF 130, ACF 132, ACF 150, ACF 152,  
ACF 170, ACF 172

**Bases for evaluation:** EN 60529: 2000 Degrees of protection provided by enclosures (IP Code)  
Requirements towards system of protection IP 67 (Enclosures of category I; Dust test with negative pressure)  
DIN 40050-9:1993 Road vehicles; IP systems of protection; protection against foreign bodies, water and touching contact; electrical equipment  
Requirements towards system of protection IP 69K

**Conductor of test:** A. Schmidt

**Order number:** 8000304022

**Period of test:** bis 03.04.2003

**Result:** The enclosure series aluCase fulfils the requirements of the degrees of protection IP IP 67 and IP 69K

TÜV NORD CERT GmbH & Co. KG  
Am TÜV 1

D – 30519 Hannover

Hanover, 3 April 2003

on behalf A. Schmidt  
Head of testing laboratory  
Safety of technical systems

## TEST CERTIFICATE

**Client** ROLEC Gehäuse-Systeme GmbH  
Kreuzbreite 2  
D – 31737 Rinteln

**Date of order** 2009-02-25

### TEST OBJECT

Enclosure of series aluCASE

|             |           |               |           |
|-------------|-----------|---------------|-----------|
| Type AC 052 | / 1 piece | Type AC 054   | / 1 piece |
| Type AC 070 | / 1 piece | Type AC 072   | / 1 piece |
| Type AC 074 | / 1 piece | Type AC 092K  | / 1 piece |
| Type AC 094 | / 1 piece | Type ACF 110K | / 1 piece |
| Type AC 200 | / 1 piece | Type AC 202   | / 1 piece |

**The certificate is valid in connection with the test report  
No. 065a/09**

The specimens were tested in accordance with DIN EN 60529 : 2000-09 to determine the degrees of protection IP Code 66 and 67.

### Criteria for passing the tests

- IP 6X No dust shall enter into the enclosure.
- IP X6 No water shall enter into the enclosure.
- IP X7 No water shall enter into the enclosure.

### TEST DECISION

The specimens have passed the above mentioned tests.

Leipzig, 2009-03-30

**Laboratory for Environmental  
Testing and Testing Materials**

Dr.-Ing. Frank Eler  
Laboratory Manager

## TEST CERTIFICATE

**Client** ROLEC Gehäuse-Systeme GmbH  
Kreuzbreite 2  
D – 31737 Rinteln

**Date of order** 2009-02-25

### TEST OBJECT

Enclosure of series aluCASE

|             |           |               |           |
|-------------|-----------|---------------|-----------|
| Type AC 052 | / 1 piece | Type AC 054   | / 1 piece |
| Type AC 070 | / 1 piece | Type AC 072   | / 1 piece |
| Type AC 074 | / 1 piece | Type AC 092K  | / 1 piece |
| Type AC 094 | / 1 piece | Type ACF 110K | / 1 piece |
| Type AC 200 | / 1 piece | Type AC 202   | / 1 piece |

**The certificate is valid in connection with the test report  
No. 065a/09**

The specimens were tested in accordance with DIN 40050-9 : 1993-05 to determine the degree of protection IP Code 6K9K.

### Criteria for passing the tests

- IP 6KX No dust shall enter into the enclosure.
- IP X9K No water shall enter into the enclosure.

### TEST DECISION

The specimens have passed the above mentioned tests.

Leipzig, 2009-03-30

**Laboratory for Environmental  
Testing and Testing Materials**

Dr.-Ing. Frank Eler  
Laboratory Manager