



## EASA Safety Information Notice

**No.:** 2007- 48

**Issued:** 10 December 2007

**Subject:** Luffahrt-Bundesamt (LBA) Airworthiness Directives D-2007-350 and D-2007-353 for the RUAG Aerospace GmbH Dornier 228 series aircraft.

**Ref. Publication:** German LBA Airworthiness Directives D-2007-350 and D-2007-353.

**Introduction:** German LBA released the referenced ADs (attached to this notice)

According to Article 15(1) of Regulation (EC) No 1592/2002 of the European Parliament and of the Council of 15 July 2002 on common rules in the field of civil aviation and establishing a European Aviation Safety Agency, EASA has only taken over Member States obligations that are related to design approval. As a consequence, EASA is only authorised to issue ADs related to design approval.

It has been determined that the unsafe conditions addressed through the two referenced ADs are not related to design approval, as it is the result of an improper technique used for maintenance purposes in one case and of manufacturing defects in the second case.

However, this is a serious safety issue and this Safety Information has been issued accordingly.

**Applicability:** RUAG Aerospace GmbH Dornier 228 series aircraft

**Recommendation:** National Aviation Authorities of the EU member states may adopt the referenced ADs under their State of Registry responsibility.

**Contact:** For further information contact the Airworthiness Directives, Safety and Research Section, Certification Directorate, EASA.  
E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu) .



## Airworthiness Directive

### D-2007-350

## Luffahrt-Bundesamt

Airworthiness Directive Section  
Hermann-Blenk-Str. 26  
38108 Braunschweig  
GERMANY

## DORNIER

Effective Date: 19 December 2007

### Affected:

Kind of aeronautical product: Airplane  
Manufacturer: RUAG Aerospace Services GmbH, Wessling, Germany  
Type: DORNIER Do 28  
Models affected: 228-100 / -101 / -200 / -201 / -202 / -212  
Serial Numbers affected: S/N 8009, 8065, 8112, 8179, 8185, 8191, 8241, 8244  
German Type Certificate No.: 2031A, 2031B, 2031C  
EASA Type Certificate No.: none

### Subject:

Partial de-bonding of the surface protection on rudders and elevators.

### Reason:

The manufacturer reported findings of missing primer on the internal of the elevator and rudder of aircraft S/N 8200. The aircraft S/N 8200 was with RUAG for maintenance purposes. Investigation performed by RUAG showed that the paint removal procedure for the rudder and elevator was changed from a paint stripping with brush and scraper to a procedure where the parts were submerged in a tank filled with hot liquid stripper. The stripper is called TURCO 5669 from Henkel Surface Technologies. The stripping process is described in the Technical Process Bulletin No. 238799 dated 09/01/1999. This paint stripping process change was not communicated to and not approved by the TC-Holder.

### Action:

This airworthiness directive requires the following actions:

1. A detailed visual inspection has to be performed on some accessible areas of inner structure on rudder and elevator for signs of corrosion, de-bonded primer (yellow-green) and any other deviation of surface protection.
2. Any investigation results which shows corrosion beyond the acceptable level or areas with de-bonded primer have to be reported to the manufacturer for further decisions.
3. If necessary, repair of the affected parts in accordance with the applicable repair instruction of the manufacturer.

All necessary actions must be performed on the basis of the referenced manufacturer Service Bulletin.

### Compliance:

For the actions mentioned above the following compliance times have been laid down:

Action 1: Within 2 months after release date of this AD.  
Action 2: Immediately after such findings have been established.  
Action 3: After instruction of the manufacturer.

### Technical publication of the manufacturer:

RUAG Service Bulletin SB-228-270 dated October 30, 2007. This Service Bulletin becomes herewith part of this AD and may be obtained from:

RUAG Aerospace Services  
Customer Support  
P.O. Box 1253  
82231 Wessling  
GERMANY  
Tel +49-(0) 8153-302280  
Fax +49-(0) 8153-303030  
Email:



## Airworthiness Directive

**D-2007-353**

## Luffahrt-Bundesamt

Airworthiness Directive Section  
Hermann-Blenk-Str. 26  
38108 Braunschweig  
G E R M A N Y

### **DORNIER**

Effective Date: 28 December 2007

#### **Affected:**

Kind of aeronautical product:	Airplane
Manufacturer:	RUAG Aerospace Services GmbH, Wessling, Germany
Type:	DORNIER Do 28
Models affected:	228-200 / -201 / -202 / -212
Serial Numbers affected:	all serial numbers equipped with Rudder Control Cables P/N B-422420A00F delivered with EASA Form One tracking number RS52074/05 after January 1, 2006.
German Type Certificate No.:	2031A, 2031B, 2031C
EASA Type Certificate No.:	none

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#### **Subject:**

Cracks in rudder control cable terminals due to production errors.

#### **Reason:**

During production testing of a batch of control cables, cracks inside the cable terminal were detected. Despite the specified strength at the date of delivery was achieved, it can not be excluded that the mechanical properties of the cables will degrade.

#### **Action:**

All Rudder Control Cables P/N B-422420A00F delivered with EASA Form One tracking number RS52074/05 have to be removed from the aircraft and are to be sent back to RUAG Aerospace Services. Affected control cables which are held on stock must be also sent back to the manufacturer. The installation of affected control cables on an airplane is not permitted. The affected cables have been delivered after January 1, 2006. The affected control cables can either be identified through the EASA Form One number RS52074/05 or by the production batch number 1141044, which is printed onto the fork end next to the P/N.

#### **Compliance:**

The affected control cables have to be replaced at the first 1200 FH inspection after installation but not later than March 31, 2008.

#### **Technical publication of the manufacturer:**

RUAG Service Bulletin SB-228-269 dated March 23, 2007. This Service Bulletin becomes herewith part of this AD and may be obtained from:

RUAG Aerospace Services  
Customer Support  
P.O. Box 1253  
82231 Wessling  
G E R M A N Y  
Tel +49-(0) 8153-302280  
Fax +49-(0) 8153-303030  
Email: dieter.leyrer@ruag.com