



# Notification of a Proposal to issue an Airworthiness Directive

**PAD No.:** 19-095

**Issued:** 27 May 2019

Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below.

All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation date indicated.

**Design Approval Holder's Name:**

AIRBUS

**Type/Model designation(s):**

A380 aeroplanes

**Effective Date:** [TBD - standard: 14 days after AD issue date]

**TCDS Number(s):** EASA.A.110

**Foreign AD:** Not applicable

**Supersedure:** None

## ATA 53 – Fuselage – Belly Fairing Panel Support Structure – Inspection

**Manufacturer(s):**

Airbus

**Applicability:**

Airbus A380-841, A380-842 and A380-861 aeroplanes, all manufacturer serial numbers, except those on which Airbus modification (mod) 75498 or mod 77715 has been embodied in production.

**Definitions:**

For the purpose of this AD, the following definitions apply:

**The SB:** Airbus Service Bulletin (SB) A380-53-8163.

**Affected part:** Forward (FWD) belly fairing (BF) structure profiles, on frame (FR) 40 and Stringer (STGR) 1, as applicable.

**Applicable SRM repair:** A380 Structural Repair Manual (SRM), task 53-35-20-283-801-A01, task 53-35-20-283-801-C01, task 53-35-20-308-801-B01, task 53-35-20-308-802-B01, task 53-35-20-308-803-A01 and task 53-35-20-308-803-B01, as applicable.



**Reason:**

During scheduled routine in-service maintenance on an A380 aeroplane, corrosion was detected on the FWD BF structure profiles, on FR 40 and STGR 1. Further investigation identified that the corrosion was due to condensation of water vapour and, probably, due to water ingress through the panel gaps in the affected area. Even after adding drainage holes in the BF panels located near FR 40, the corrosion phenomenon can still develop. In addition, deficiencies were detected in the applicable SRM repairs which cover the whole BF in case of corrosion, in the feet area of the structure.

This condition, if not detected and corrected, could affect the structural integrity of the aeroplane.

To address this potential unsafe condition, Airbus issued the SB to provide instructions to inspect the affected parts. Airbus also developed production mod 75498 and mod 77715, installing titanium parts to solve the corrosion issue. In addition, the SRM was revised to ensure proper repairs in future.

For the reasons described above, this AD requires repetitive detailed inspections (DET) of each affected part and, depending on findings, accomplishment of applicable corrective action(s). This AD also prohibits the use of an applicable SRM repair, unless a certain revision (or later) of the SRM is used.

This AD is considered to be an interim action and further AD action may follow.

**Required Action(s) and Compliance Time(s):**

Required as indicated, unless accomplished previously:

**Inspection(s):**

- (1) Within the compliance time defined in Table 1 of this AD, as applicable, and, thereafter, at intervals not to exceed 24 months, accomplish a DET of each affected part in accordance with the instructions of the SB.

Table 1 – Aeroplanes Inspection Threshold

<b>Compliance Time</b> (whichever occurs later, <b>A</b> or <b>B</b> )	
<b>A</b>	Within 24 months after aeroplane first flight, or after last accomplishment of MPD task 05-21-90-210-801-A, as applicable
<b>B</b>	Within 6 months after the effective date of this AD

**Corrective Action(s):**

- (2) If, during any DET as required by paragraph (1) of this AD, corrosion is found that is within the repair criteria as specified in the applicable SRM repair, before next flight, repair the affected part(s) in accordance with the instructions of the applicable SRM repair AT Revision 56 dated June 2018 (or later), or replace each corroded FR40 or STGR1, as applicable, in accordance with the instructions of the SB.
- (3) If, during any DET as required by paragraph (1) of this AD, corrosion is found that is outside the repair criteria as specified in the applicable SRM repair, before next flight, contact Airbus for



approved corrective action instructions and accomplish those instructions accordingly, or replace each corroded FR40 or STGR1, as applicable, in accordance with the instructions of the SB.

**Terminating action:**

- (4) Replacement or repair of affected parts on an aeroplane as required by paragraph (2) or (3) of this AD, as applicable, does not constitute terminating action for the repetitive inspections required by paragraph (1) of this AD for that aeroplane.

**SRM Limitation:**

- (5) From the effective date of this AD, it is allowed to accomplish an applicable SRM repair, as defined in this AD, provided the instructions of the Airbus A380 SRM at Revision 56 dated June 2018 (or later) are used.

**Ref. Publications:**

Airbus SB A380-53-8163 original issue dated 28 January 2019.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

**Remarks:**

1. This Proposed AD will be closed for consultation on 24 June 2019.
2. Enquiries regarding this PAD should be referred to the EASA Programming and Continued Airworthiness Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
3. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this PAD, and which may occur, or have occurred on a product, part or appliance not affected by this PAD, can be reported to the [EU aviation safety reporting system](#).
4. For any question concerning the technical content of the requirements in this PAD, please contact: AIRBUS SAS - EIANA (Airworthiness Office), Telephone : +33 562 110 253, Fax: +33 562 110 307, E-mail: [account.airworth-A380@airbus.com](mailto:account.airworth-A380@airbus.com).

