EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2012-0222 **Date: 24 October 2012** Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.

This AD is issued in accordance with EU 748/2012, Part 21.A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].

Design Approval Holder's Name:	**Type/Model designation(s):**
AIRBUS	A380 aeroplanes

TCDS Number:	EASA.A.110
Foreign AD:	Not applicable
Supersedure:	None

ATA 53	**Fuselage – Cone/Rear Fuselage Lower Beam at Section 19 Frame 102 – Inspection / Modification**
Manufacturer(s):	Airbus
Applicability:	Airbus A380-841, A380-842, and A380-861 aeroplanes, all manufacturer serial numbers (MSN) except MSN 002, and aeroplanes on which Airbus modification 71345 has been embodied in production.
Reason:	During full scale fatigue tests, cracks were found at the attachments of Frame (FR) 102 to the Left-Hand (LH) and Right-Hand (RH) lower beams in the cone/rear fuselage at section 19. This condition, if not detected and corrected, could affect the structural integrity of the aeroplane. To address this unsafe condition, Airbus issued Service Bulletin (SB) A380-53-8054 and SB A380-53-8039 to provide accomplishment instructions for inspection of the attachments of FR102 to the LH and RH Lower Beams in the Cone/Rear Fuselage Section 19 and instructions for Beam Reinforcement on the LH and RH Lower Beams at the attachments to Frame 102. For the reasons described above, this AD requires a one-time Detailed Visual Inspection (DVI) and a High-Frequency Eddy Current (HFEC) inspection of Section 19 LH and RH lower beam at FR102 and, depending on crack findings, accomplishment of applicable corrective actions. This AD also requires installation of beam reinforcements on the LH and RH lower beams at the attachments to Frame 102.
Effective Date:	07 November 2012

<table>
<tr><td>Required Action(s) and Compliance Time(s):</td><td>
Required as indicated, unless accomplished previously:

(1) Before the accumulation of 2 600 flight cycles after the aeroplane first flight, accomplish a DVI, followed by a HFEC, of Section 19 LH and RH lower beams at FR102 joint for upper and lower side in accordance with the instructions of Airbus SB A380-53-8054.

(2) If, during the inspections as required by paragraph (1) of this AD, any crack is detected on the LH or RH lower beams, before next flight, accomplish the actions defined in Table 1 of this AD, as applicable to the crack condition:

Table 1
<table>
<tr><th>Crack condition</th><th>Corrective Action</th></tr>
<tr><td>The crack runs in the lower beam radius and the crack length is equal to or less than 35 mm</td><td>Accomplish repair and report to Airbus in accordance with the instructions of Airbus SB A380-53-8054 and install the beam reinforcement on the lower beams at FR102 joint in accordance with the instructions of Airbus SB A380-53-8039.</td></tr>
<tr><td>The crack runs in any other direction than the lower beam radius or the crack length is more than 35 mm</td><td>Contact Airbus to get approved repair instructions and, within the compliance time specified in those instructions, accomplish the repair accordingly.</td></tr>
</table>

(3) If, during the inspections as required by paragraph (1) of this AD, <u>no</u> crack is detected, before next flight, install the beam reinforcement on the LH and RH Lower Beams at Frame 102 joint in accordance with the instructions of Airbus SB A380-53-8039.
</td></tr>
<tr><td>Ref. Publications:</td><td>
Airbus SB A380-53-8039 original issue dated 21 June 2012.

Airbus SB A380-53-8054 original issue dated 21 June 2012.

The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.
</td></tr>
<tr><td>Remarks:</td><td>
1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.

2. This AD was posted on 11 September 2012 as PAD 12-116 for consultation until 09 October 2012. No comments were received during the consultation period.

3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: ADs@easa.europa.eu.

4. For any question concerning the technical content of the requirements in this AD, please contact:
AIRBUS SAS - EIANA (Airworthiness Office),
Telephone: +33 562110253 ; Fax:+33 562 110 307.
E-mail: account.airworth-A380@airbus.com, Nabil.Tahiri@airbus.com and Sandra.Cuiec@airbus.com.
</td></tr>
</table>