

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2015-0137 Date: 09 July 2015 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 EU 1321/2014 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 [EU 1321/2014 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: AIRBUS	Type/Model designation(s): A380 aeroplanes
TCDS Number:	EASA.A.110
Foreign AD:	Not applicable
Supersedure:	None
ATA 53	Fuselage – Upper Deck Carbon Fibre Reinforced Plastic Cross-Beam – Inspection / Modification
Manufacturer(s):	Airbus
Applicability:	Airbus A380-841, A380-842 and A380-861 aeroplanes, manufacturer serial numbers (MSN) 0003 through 0094 inclusive, 0096, 0098 through 0101 inclusive, 0103, 0105 through 0112 inclusive, 0114, 0120 and 0122.
Reason:	After introduction of Airbus modification 70052, developed for a new weight variant of A380-800 aeroplanes, it was determined that, for certain aeroplane configurations, the Carbon Fibre Reinforced Plastic (CFRP) Cross-Beam at Frame (FR)71 and/or FR84 on the Upper Deck (UD) may not meet the applicable Ultimate Load certification specification(s). This condition, if not detected and corrected, could lead to significant reduction of the acceptable safety margin required by the design specification, resulting in a possible local failure of the floor beam. To address this potential unsafe condition, Airbus issued Service Bulletin (SB) A380-53-8077 and SB A380-53-8092, providing instructions to inspect the UD CFRP crossbeam at FR71 and FR84, respectively. Airbus also issued SB's A380-53-8072 and SB A380-53-8073 providing instructions to reinforce the area at FR71, and SB A380-53-8093 and SB A380-53-8094 to reinforce the area at FR84. For the reasons described above, this AD requires one-time inspections of the UD CFRP crossbeam at FR71, and/or at FR84, as applicable to aeroplane configuration, and, depending on findings, repair or reinforcement of the affected areas.

Effective Date:	23 July 2015						
Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: For all aeroplanes, except for aeroplanes which have been modified before the effective date of this AD in accordance with the instructions of Airbus SB A380-53-8065: (1) Within the compliance time as defined in Table 1 of this AD, as applicable, accomplish a General Visual Inspection (GVI) and a Special Detailed Inspection (SDI) of the UD Cross-Beam Connection at FR71 on the left-hand (LH) and right-hand (RH) sides in accordance with the instructions of Airbus SB A380-53-8077. Table 1 – Compliance Time <table border="1"> <tr> <th>Time in service accumulated on the effective date of this AD after the date of issuance of the original certificate of airworthiness or export certificate of airworthiness, whichever occurs first</th><th>Compliance time</th></tr> <tr> <td>Less than 72 months</td><td>Before exceeding 72 months after the date of issuance of the original certificate of airworthiness or export certificate of airworthiness, whichever occurs first, or within 24 months after the effective date of this AD, whichever occurs later</td></tr> <tr> <td>Equal to, or more than, 72 months</td><td>Before exceeding 96 months after the date of issuance of the original certificate of airworthiness or export certificate of airworthiness, whichever occurs first</td></tr> </table> (2) If, during the GVI or SDI as required by paragraph (1) of this AD, any damage (as defined in Airbus SB A380-53-8077) is found, before next flight, contact Airbus for approved repair instructions and, within the compliance time specified in those repair instructions, accomplish the repair accordingly and, thereafter, within the compliance time as defined in Table 1 of this AD, reinforce the structure at the UD CFRP cross-beam at FR71 in accordance with the instructions of Airbus SB A380-53-8072 or Airbus SB A380-53-8073, as applicable to aeroplane configuration. (3) If, during the GVI or SDI as required by paragraph (1) of this AD, no damage is found, before next flight, reinforce the structure at the UD CFRP cross-beam at FR71 in accordance with the instructions of Airbus SB A380-53-8072 or Airbus SB A380-53-8073, as applicable to aeroplane configuration. (4) Aeroplanes which have been inspected and corrected before the effective date of this AD in accordance with the instructions of Airbus Technical Disposition (TD) L53RP1334375 at issue 3 or later, are compliant with the requirements of paragraphs (1), (2) and (3) of this AD. For aeroplanes MSN 0023 through 0044 inclusive, 0046 through 0094 inclusive, 0096, 0098 through 0101 inclusive, 0103, 0105 through 0112 inclusive, 0114, 0120 and 0122: (5) Within the compliance time as defined in Table 1 of this AD, as applicable,	Time in service accumulated on the effective date of this AD after the date of issuance of the original certificate of airworthiness or export certificate of airworthiness, whichever occurs first	Compliance time	Less than 72 months	Before exceeding 72 months after the date of issuance of the original certificate of airworthiness or export certificate of airworthiness, whichever occurs first, or within 24 months after the effective date of this AD, whichever occurs later	Equal to, or more than, 72 months	Before exceeding 96 months after the date of issuance of the original certificate of airworthiness or export certificate of airworthiness, whichever occurs first
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	accomplish a GVI and an SDI of the UD Cross-Beam Connection at FR84 on the LH and RH sides in accordance with the instructions of Airbus SB A380-53-8092. (6) If, during the GVI or SDI as required by paragraph (5) of this AD, any damage (as defined in Airbus SB A380-53-8092) is found, before next flight, contact Airbus for approved repair instructions and, within the compliance time specified in those repair instructions, accomplish the repair accordingly. Thereafter, within the compliance time as defined in Table 1 of this AD, as applicable, reinforce the structure at the UD CFRP cross-beam at FR84 in accordance with the instructions of Airbus SB A380-53-8093 or Airbus SB A380-53-8094, as applicable to aeroplane configuration. (7) If, during the GVI or SDI as required by paragraph (6) of this AD, no damage is found, before next flight, reinforce the structure at the UD CFRP cross-beam at FR84 in accordance with the instructions of Airbus SB A380-53-8093 or Airbus SB A380-53-8094, as applicable to aeroplane configuration. For all aeroplanes: (8) From the effective date of this AD, until the reinforcement of the structure at the UD CFRP cross-beam at FR71 or FR84, as required by paragraph (2) or (3) or (6) or (7) of this AD, as applicable to aeroplane MSN, prior to any cabin layout configuration modification, contact Airbus to obtain appropriate accomplishment instructions, and accomplish those instructions accordingly.
Ref. Publications:	Airbus SB A380-53-8065 original issue dated 24 September 2013. Airbus SB A380-53-8072 original issue dated 08 September 2014. Airbus SB A380-53-8073 original issue dated 08 September 2014. Airbus SB A380-53-8077 original issue dated 08 September 2014. Airbus SB A380-53-8092 original issue dated 16 April 2015. Airbus SB A380-53-8093 original issue dated 16 April 2015. Airbus SB A380-53-8094 original issue dated 16 April 2015. Airbus TD L53RP1334375 issue 3 dated 18 October 2013. The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.
Remarks:	1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. This AD was posted on 26 May 2015 as PAD 15-067 for consultation until 23 June 2015. No comments were received during the consultation period. 3. Enquiries regarding this AD should be referred to the Safety Information Section, Certification 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 : +33 562 110 253, E-mail: account.airworth-A380@airbus.com.