

STN	Letectvo a kozmonautika Vložené tagy Výber upevnenia pre inštaláciu, odstránenie a výmena vložených tagov	STN EN 4906 31 1414
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Aerospace series - Embedded tags - Choice of fixation for installation, removal and replacement of embedded tags

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Aerospace series - Embedded tags - Choice of fixation for installation, removal and replacement of embedded tags

Série aérospatiale - Étiquettes embarquées - Choix de fixation pour pose, dépose et remplacement d'étiquettes embarquées

Luft- und Raumfahrt - On-Board-Etiketten - Auswahl der Befestigung zum Anbringen, Entfernen und Ersetzen von On-Board-Etiketten

This European Standard was approved by CEN on 30 July 2023.

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EN 4906:2023 (E)

Contents	Page
European foreword	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 List of acronyms	8
5 General remarks	8
5.1 General.....	8
5.2 Choosing the tag	10
5.3 Shape of the support.....	10
5.4 Size of the support.....	10
5.5 Orientation.....	10
5.6 Temperature.....	11
5.7 Integrity of the tags	11
5.8 Non-reuse of tags	11
5.9 Resistance to cleaning and maintenance operations	11
5.10 Risk of projection.....	11
5.11 Flammability.....	12
5.12 Degassing/toxicity.....	12
6 Types/methods of fixations	12
6.1 Introduction.....	12
6.2 Bonding	12
6.2.1 Types of bonding.....	12
6.2.2 The advantages of bonding	14
6.2.3 The disadvantages of bonding.....	14
6.2.4 Remarks	14
6.3 Mechanical fixation	14
6.3.1 General.....	14
6.3.2 Screwing.....	15
6.3.3 Riveting.....	15
6.3.4 Stapling.....	16
6.3.5 Crimping.....	16
6.3.6 Pinching.....	17
6.3.7 Fixation using plastic collars	17
6.4 Fixation to textiles	18
6.5 Fixation in pouches	20
6.6 Welding.....	21
6.7 Incorporated in the container	21
6.8 Fixation by magnets	22
6.9 Fixation by clips.....	23
7 Selection method	23
8 Bonding	24
8.1 Location of the tag on the airborne vehicle.....	24
8.2 Nature of the surface	25
8.3 Temperature.....	25

8.4	Vibrations/shocks/constant acceleration.....	25
8.5	Sensitivity to fluids, fungus, salt spray, humidity, immersion, icing, sand and dust.....	25
8.6	Tearing-off (aerodynamic air flows, maintenance operations, etc.)	26
8.7	UV/Light.....	27
8.8	Lifespan	27
8.9	Replacement.....	27
9	Screwing, riveting and nailing	27
9.1	Location of the tag	27
9.2	Nature of the surface	27
9.3	Temperature	27
9.4	Vibrations/shocks/constant acceleration.....	27
9.5	Sensitivity to fluids, fungus, salt spray, humidity, icing, sand and dust.....	28
9.6	Tearing-off (aerodynamic air flows, handling, etc.).....	28
9.7	UV/Light.....	28
9.8	Lifespan	28
9.9	Replacement.....	28
10	Crimping/Pinching.....	28
10.1	Location of the tag	28
10.2	Nature of the surface	28
10.3	Temperature	28
10.4	Vibrations/shocks/constant acceleration.....	28
10.5	Sensitivity to fluids, fungus, salt spray, humidity, icing, sand and dust.....	29
10.6	Tearing-off (aerodynamic air flows, handling, etc.).....	29
10.7	UV/Light.....	29
10.8	Lifespan	29
10.9	Replacement.....	29
11	Wrapping and fixation with collars.....	29
11.1	Location of the tag on the airborne vehicle.....	29
11.2	Nature of the surface	29
11.3	Temperature	29
11.4	Vibrations/shocks/constant acceleration.....	29
11.5	Sensitivity to fluids, fungus, salt spray, humidity, icing, sand and dust.....	29
11.6	Tearing-off (aerodynamic air flows, handling, etc.).....	30
11.7	UV/Light.....	30
11.8	Lifespan	30
11.9	Replacement.....	30
12	Braiding/weaving.....	30
12.1	Location of the tag on the airborne vehicle.....	30
12.2	Nature of the surface	30
12.3	Temperature	30
12.4	Vibrations/shocks/constant acceleration.....	30
12.5	Sensitivity to fluids, fungus, salt spray, humidity, icing, sand and dust.....	30
12.6	Tearing-off (aerodynamic air flows, handling, etc.).....	30
12.7	UV/Light.....	30
12.8	Lifespan	30
12.9	Replacement.....	31
13	Welding	31
13.1	Location of the tag on the airborne vehicle.....	31
13.2	Nature of the surface	31
13.3	Temperature	31

EN 4906:2023 (E)

13.4	Vibrations/shocks/constant acceleration.....	31
13.5	Sensitivity to fluids, fungus, salt spray, humidity, icing, sand and dust.....	31
13.6	Tearing-off (aerodynamic air flows, handling, etc.).....	31
13.7	UV/Light.....	31
13.8	Lifespan.....	31
13.9	Replacement.....	31
14	Coated bonding.....	31
14.1	Location of the tag on the airborne vehicle.....	31
14.2	Nature of the surface.....	31
14.3	Temperature.....	32
14.4	Vibrations/shocks/constant acceleration.....	32
14.5	Sensitivity to fluids, fungus, salt spray, humidity, icing, sand and dust.....	32
14.6	Tearing-off (aerodynamic air flows, handling, etc.).....	32
14.7	UV/Light.....	32
14.8	Lifespan.....	32
14.9	Replacement.....	32
	Bibliography.....	33

European foreword

This document (EN 4906:2023) has been prepared by the Aerospace and Defence Industries Association of Europe — Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2024, and conflicting national standards shall be withdrawn at the latest by April 2024.

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EN 4906:2023 (E)

1 Scope

This document is applicable in the aeronautical domain to on-board parts and to equipment intended to be embedded or positioned on any civil or military airborne vehicle with a type certificate.

The purpose of this document is to guide design, manufacturing, maintenance and operations organizations in the installation, removal and replacement of RFID tags (UHF and HF) and Contact Memory Buttons (CMB), according to the environments defined in RTCA DO-160/EUROCAE ED-14 and according to the type of support and the expected fixation performances. This guide will provide help in the specification of the tag installation/removal functions and/or will enable the solutions on offer from tag suppliers to be enhanced.

The term “tag” used in this document covers all the tags used to store electronic data, including RFID tags and CMB tags. As a reminder, the tags can also contain information that can be read by devices other than RFID or CMB readers (e.g., bar codes - Data Matrix, QR codes, etc., and/or alphanumerical characters) and information that can be read by the naked eye without any tools (human-readable).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1464, *Adhesives — Determination of peel resistance of adhesive bonds — Floating roller method*

EN 1465, *Adhesives — Determination of tensile lap-shear strength of bonded assemblies*

EN 4818, *Aerospace series — Passive HF RFID tags intended for aircraft use*

EN 4819, *Aerospace series — Contact Memory Button (CMB) tags intended for aircraft use*

EN 4905, *Aerospace series — Passive UHF RFID for airborne use*

EN ISO 11343, *Adhesives — Determination of dynamic resistance to cleavage of high-strength adhesive bonds under impact wedge conditions — Wedge impact method (ISO 11343)*

ISO 4578,¹ *Adhesives — Determination of peel resistance of high-strength adhesive bonds — Floating-roller method*

RTCA DO-160/EUROCAE ED-14, *Environmental Conditions and Test Procedures for Airborne Equipment*

SAE AS 5678B,² *Passive RFID Tags Intended for Airborne Equipment Use*

SAE AS 6023,² *Active and Battery Assisted Passive Tags Intended for Aircraft Use*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ Published by: ISO International Organization for Standardization <http://www.iso.ch/>.

² Published by: SAE International (US), <https://www.sae.org/>.