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Standards

Irish Standard
I.S. EN 4662:2010

Aerospace series - Test specification for vibration control components

I.S. EN 4662:2010

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SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
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Údarás um Chaighdeáin Náisiúnta na hÉireann

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English Version

Aerospace series - Test specification for vibration control components

Série aérospatiale - Spécification d'essais pour des composants de contrôle en vibration

Luft- und Raumfahrt - Prüfspezifikation für Bauteile zur Schwingungsminderung

This European Standard was approved by CEN on 6 February 2010.

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Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 4662:2010) 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 Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.

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1 Scope

This standard specifies the procedure and the parameter for testing static and dynamic stiffness of vibration control components (e.g. shock mounts with bushes).

This standard applies to vibration control components all installed for aircraft applications. It may be applied when referred to in the product standard or in a design specification.

2 Definition and symbols

For the purposes of this document, the following definition and symbols apply.

2.1 Coordinate system

The functional requirements shall be defined in a Cartesian coordinate system. The directions for translation and rotation shall be defined in the specifications of the relevant product standards.

2.2 Symbols

2.2.1 Static stiffness

Due to the material damping vibration control components can have a hysteresis load versus displacement curve as shown exemplary in Figure 1.

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