

<b>STN</b>	<b>Letectvo a kozmonautika</b> <b>Prvky elektrických a optických spojení</b> <b>Skúšobné metódy</b> <b>Časť 403: Sínusové a náhodné vibrácie</b>	<b>STN</b> <b>EN 2591-403</b>  31 1810
------------	---	---

Aerospace series - Elements of electrical and optical connection - Test methods - Part 403: Sinusoidal and random vibration

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/19

Obsahuje: EN 2591-403:2018

Oznámením tejto normy sa ruší  
STN EN 2591-403 (31 1810) z januára 2013

**128656**

EUROPEAN STANDARD

**EN 2591-403**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2018

ICS 49.060; 49.090

Supersedes EN 2591-403:2012

English Version

## Aerospace series - Elements of electrical and optical connection - Test methods - Part 403: Sinusoidal and random vibration

Série Aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 403 : Vibrations sinusoïdales et aléatoires

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 403: Sinus- und rauschförmige Schwingungen

This European Standard was approved by CEN on 11 September 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN 2591-403:2018 (E)**

<b>Contents</b>		<b>Page</b>
<b>European foreword .....</b>		<b>3</b>
<b>1</b>	<b>Scope.....</b>	<b>4</b>
<b>2</b>	<b>Normative references.....</b>	<b>4</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>4</b>
<b>4</b>	<b>Preparation of specimens.....</b>	<b>5</b>
<b>5</b>	<b>Method A - Sinusoidal vibration.....</b>	<b>5</b>
<b>6</b>	<b>Method B - Random vibration.....</b>	<b>7</b>
<b>7</b>	<b>Method C - High vibration endurance .....</b>	<b>11</b>

## **European foreword**

This document (EN 2591-403:2018) 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 April 2019, and conflicting national standards shall be withdrawn at the latest by April 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 2591-403:2012.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

**EN 2591-403:2018 (E)****1 Scope**

This European Standard specifies a method of determining the ability of elements of connection to withstand sinusoidal or random vibrations of specified severities.

It will be used together with EN 2591-100.

This test is based on EN 60068-2-6 and EN 60068-2-64.

**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 2591-100, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General*

EN 2591-101, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 101: Visual examination*

EN 2591-201, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 201: Contact resistance – low level*

EN 2591-202, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 202: Contact resistance at rated current*

EN 2591-204, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 204: Discontinuity of contacts in the microsecond range*

EN 2591-408, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 408: Mating and unmating forces*

EN 60068-2-6, *Environmental testing — Part 2-6: Tests — Test Fc: Vibration (sinusoidal)*

EN 60068-2-64, *Environmental testing — Part 2-64: Test methods — Test Fh: Vibration, broad-band random (digital control) and guidance*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**