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Aerospace series - ECO efficiency of seats

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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ICS 49.095

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English Version

Aerospace series - ECO efficiency of seats

Série aérospatiale - Écoefficacité des sièges

Luft- und Raumfahrt - ECO Effizienz von Sitzen

This European Standard was approved by CEN on 4 August 2025.

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European foreword

This document (EN 4912:2025) has been prepared by 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 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of an identical text or by endorsement, at the latest by March 2026, and conflicting national standards shall be withdrawn at the latest by March 2026.

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Introduction

In this document, the verbal form “shall” indicates a requirement.

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1 Scope

This document specifies the determination of the ECO efficiency of passenger seats installed in large airplanes.

This document is only applicable to the weight aspects of ECO efficiency, but this document does not apply to other aspects of sustainability.

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 4727:2025, *Aerospace series — Standardized passenger seat weight information*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Abbreviations

<i>BSW</i>	benchmark seat weight
<i>EEI</i>	eco efficiency index
<i>IFE</i>	in-flight entertainment
<i>pax</i>	passenger

5 Definition of seat category

A specific seat type shall be categorized in accordance with Table 1. Different seat categories are subjected to different eco efficiency penalties regarding the seat weight. Generally, higher seat categories will gain the same eco efficiency grade as lower seat categories despite higher specific seat weight. Table 1 provides an overview on the mandatory and optional features as guidance to categorize the seat. The only discrimination between categories is done by the seat features included in the seat design. A seat shall contain all features marked in Table 1 “mandatory” to be allowed to be categorized into a certain category.

Figure 1 shows types of footrests.