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Standards

Irish Standard
I.S. EN 16955:2017

Hardware for furniture - Tapered pressure tubes for self-supporting gas springs for the height adjustment of seating - Test methods and requirements for strength and durability

I.S. EN 16955:2017

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National Foreword

I.S. EN 16955:2017 is the adopted Irish version of the European Document EN 16955:2017, Hardware for furniture - Tapered pressure tubes for self-supporting gas springs for the height adjustment of seating - Test methods and requirements for strength and durability

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EUROPEAN STANDARD
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English Version

**Hardware for furniture - Tapered pressure tubes for self-supporting gas springs for the height adjustment of seating
- Test methods and requirements for strength and durability**

Quincaillerie d'ameublement - Tubes coniques sous pression pour vérins à gaz autoportants pour l'ajustement de la hauteur de siège - Méthodes et exigences d'essai pour la résistance et la durabilité

Möbelbauteile - Konische Druckrohre für selbsttragende Gasfedern zur Höhenverstellung von Sitzmöbeln - Prüfmethoden und Anforderungen für die Festigkeit und Dauerhaltbarkeit

This European Standard was approved by CEN on 15 February 2017.

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European foreword

This document (EN 16955:2017) has been prepared by Technical Committee CEN/TC 207 “Furniture”, the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by October 2017, and conflicting national standards shall be withdrawn at the latest by October 2017.

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EN 16955:2017 (E)

1 Scope

This European Standard specifies test methods and requirements for the strength and durability of tapered pressure tubes for self-supporting gas springs for the height adjustment of seating.

Annex A (normative) contains product information.

Annex B (informative) contains a guide for choosing the correct strength class.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 4288, *Geometrical product specifications (GPS) - Surface texture: Profile method - Rules and procedures for the assessment of surface texture (ISO 4288)*

EN ISO 7500-1:2016, *Metallic materials - Verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Verification and calibration of the force-measuring system (ISO 7500-1)*

EN ISO 9934-2, *Non-destructive testing - Magnetic particle testing - Part 2: Detection media (ISO 9934-2)*

ISO 1099, *Metallic materials — Fatigue testing — Axial force-controlled method*

3 Terms and definitions

Not applicable.

4 Strength classes for pressure tubes

The determination of the strength classes is based on characteristics given in Table 1. The dimension u of the seating is given in Figure 1.

Table 1 — Strength classes for pressure tubes

Strength class ^a	Alternate bending moment	Largest distance between load bearing structure of the seat and centre of the column
	M Nm	u mm
2	±190	≤ 340
3	±210	≤ 370
4	±240	≤ 400
^a Due to increased requirements, strength class 1 is not part of this European Standard.		

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