

CATAS gets a new accreditation

ISO 19833:2018 - Beds

Alberto Gelosa

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In November CATAS was successfully audited by ACCREDIA inspectors, obtaining accreditation to the ISO 19833:2018 standard 'Furniture - Beds - Test methods for determining stability, strength and durability'.



We remember that ACCREDIA ensures the fairness and reliability of the test reports and certifications issued by the accredited laboratories or certification bodies by evaluating the technical competence and professional integrity of their personnel and also by assessing the conformity of all the procedures adopted in their testing or certification activities.

The ISO 19833 specifies test methods for determining the **stability, strength and durability of all types of fully assembled beds** intended for adults for **domestic and non-domestic** use, including bed frames and bed bases.

The standard is based on EN 1725:1998 "Domestic furniture. Beds and mattresses. Safety requirements and test methods" currently under review, implementing and improving it in some points.

The standard finally takes into consideration also the horizontal stresses to which the beds can be subjected in their daily use.

The static load and horizontal durability tests have the scope to verify the strength of the bed structure, for example when it is moved or when one or two people are sitting on the bed with their backs against the headboard.

ISO 19833 differentiates the horizontal static load test according to:

- headboard of beds ≤ 1200 mm
- headboard of beds > 1200 mm
- without headboard.

Beds with headboard ≤ 1200 mm	Beds with headboard > 1200 mm	Beds without headboards

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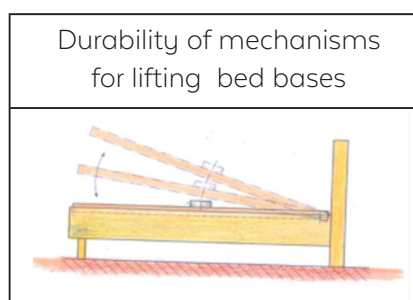
The tests consist of the application of loads and forces simulating the normal functional use that might reasonably be expected to occur.

The standard also contains a test method that deals with the stability of the bed by simulating the case of people sitting on one of the edges (long side or short side) and the application of static loads and vertical forces in different positions.



Are also requested:

- a vertical impact test. The standard requires the test to be carried out with an impactor with specified shape and properties (weighing 25 kg), by letting it fall freely on the bed in different positions.
- a durability of mechanisms for lifting bed bases. This test is only applicable to bed bases are designed to be lifted by the user through a mechanism (e.g. gas lift).



It should be noted that ISO 19833:2018 does not specify requirements for the choice of loads, cycles or forces, but only the test methods. These will be specified in the new EN 1725, as already mentioned, currently under review.

EN 1725 will give both the safety requirements (general and mechanical) and the strength and durability requirements, differentiating them in relation to the intended use (domestic or non-domestic).

In the scope of the new EN 1725 it will be specified that the tests are based on use by persons weighing up to 110 kg. The new document aims to better clarify aspects relative the general safety requirements (shear and compression points, etc.) by adding other possible risks, such as entanglement hazards.

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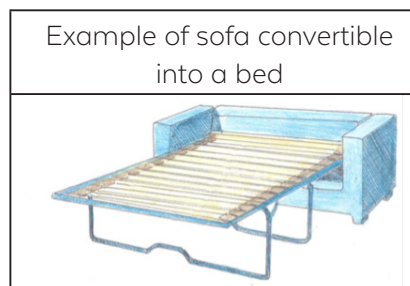
Requirements for guest beds will be introduced in the revised standard.

Beds that are intended to be used on an occasional basis, e.g. a folding bed or a trundle bed which is stored underneath the main bed when not in use.



In the new EN 1725 a test to convert the sofa into a bed will be provided. The test will be performed in according to EN 13759:2012 “Furniture - Operating mechanisms for seating and sofa-beds - Test methods”.

A new test method will be in addition to assess the durability of electrically operated bed mechanism in according to the intended use (domestic or non-domestic).



When the new version, currently still under review and subject to further revisions, will be officially published, it will be possible going into detail on all the changes about EN 1725.

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