WORLDWIDE EN131 Standards Renewed





Meet the new EN131 standards !





EN131 standards for Professional Ladders have been extensively updated.

This update, which came into force at the end of 2017 in Europe, has made the ladders safer with the **extra tests, required by the new standard.** According to the new Standards there were some mandatory changes made in the products and tests that carried the safety boundaries to further point.





Cagsan's ladders has successfully passed all tests with its products that are compatible with the updated standards, and continues to produce with **TÜV-SÜD** and **TSE EN131** certificates!









Leaning Rung Ladders TÜV-SÜD - TSE EN131-1-2-3





TÜV-SÜD - TSE EN131-1-2-3

Extending Ladders





Multipurpose Ladders

TÜV-SÜD - TSE EN131-1-2-3



The changes on the EN131 Standard have been stated in the scope in the devision of A2/2017.



New Standard **invented the mandatory changes** on the design of the ladders also invented the new **extra stringent tests** on the ladders







Requirement Stabiliser

For ladder which has height 300 cm. or more equipped with Stabiliser.

A stabiliser can be maximum 120 cm. lenght.







Content of the test Endurance test

Tested features

> Durability of the ladders

Testing method

▶ 2700 N of weight applied on the ladder at the using position, from a single point.





Content of the test

Durability of the Standing ladders against torsion effect

Tested features

> Durability of the Standing ladders against torsion effect

Testing method

- One foot of a ladder is securedusing a clamp.
- The platform of a ladder is subject to a load of 736 N. Subsequently, a lateral pulling force of 137 N is applied to the ladder.

Requirement

YWhen the test load is applied, the other ladder foot should not move more than 2,5 cm. from its original position.





Content of the test

Continuous stress test

Tested features

Durability of the ladder

Testing method

- A load of 1500 N is applied to the ladder alternately between the topmost step/rung and the middle step/rung of the ladder
- ▶ Repetitions for non-professional: 10000 cycles
- ▶ Repetitions for professional: 50000 cycles

Requirement

• There should be no damage to the ladder.





Content of the test Slip test

Tested features

▶ Slip-resistance of the ladder end caps

Testing method

- > The ladder is placed standing on a glass panel.
- > The ladder is subject to a concentricload of 1471 N
- > The load is applied 4 times to the ladder.

Requirement

The feet of the ladder should not slide more than 40 mm. within 1 minute.





Content of the test

Torsion test leaning ladders

Tested features

Torsional stiffness

Testing method

- The first step involves applying a concentric load of 491 N. to the ladder for 30 seconds. This is then done to determine the initial value.
- In the next step, a concentric load of 638 N is applied to one of the stiles and the deformation of both stiles are measured relative to the initial value.

Requirement

The difference between the deformation of the two stiles should not exceed 0.07 times of the ladder width.

f1-f2≤ 0,07 b_u









ÇAĞSAN MERDİVEN VE ERİŞİM EKİPMANLARI SANAYİ TİC.LTD.ŞTİ.

GEBZE FABRİKA: Dilovası Organize Sanayi Bölgesi 3. Kısım, Meriç Cad. No:1 Muallim Köyü, Gebze-KOCAELİ/TÜRKİYE Tel:(0262) 759 18 08 Fax:(0262) 759 18 78 BALIKESİR FABRİKA: Balıkesir Organize Sanayi Bölgesi, Gaziosmanpaşa OSB Mah. 17. Cad. No: 11A Altıeylül-BALIKESİR/TÜRKİYE Tel:(0266) 244 43 40 bilgi@cagsanmerdiven.com.tr - Vergi Dairesi:Uluçınar - Vergi Numarası:2160109067 - Ticaret Sicil No.:18644 - Mersis No.:8538667197839796

2018