

Technical standards



Work at height, arboriculture, rescue, military operations... there are as many specific ropes as applications. In close cooperation with their technical advisers who test ropes in real-life conditions, COUSIN Trestec offers you the best in the safety rope market.

Made to last, our ropes are certified to CE and UIAA standards or fulfil the specific requirements of the military. Our safety ropes mainly conform to EN 1891 or EN 892 standards.

Ropes known as “static”, more precisely called braided ropes, have a low elongation coefficient.

These conform to EN 1891 standards and are mainly used to reach, to position or to maintain oneself at one's working station. With low elongation, ropes known as “static” avoid the “Yo-yo” effect when climbing or while suspended.

These ropes offer great reliability and have a wide range of applications, and particularly in the 10.5mm and 11mm diameters.

Ropes known as “Dynamic”

These conform to EN 892 standards.

Designed especially for climbing, these ropes must be used any time a move is made above an anchor point. Able to absorb energy generated by a violent fall by their elasticity, these ropes are reserved for experienced people.

Ropes known as “Single” with a diameter less than 10.5mm are now the most commonly used in the market.

| EN 1891 principal requirements extract | | |
|---|---|----------------------|
| Type | A | B |
| Number of falls (Factor 1) | ≥ 5 falls (100 kg) | ≥ 5 falls (80 kg) |
| Impact force (Factor 0.3) | ≤ 600 daN (100 kg) | ≤ 600 daN (80 kg) |
| Static elongation (50 to 150 kg) | ≤ 5% | |
| Static load | 2200 daN minimum | 1800 daN minimum |
| Static load with figure-of-8 knot (3 minutes) | 1500 daN | 1200 daN |
| Sheath slippage | < 20+ 10 (Ø – 9 mm) if Ø ≤ 12 mm < 20+ 5 (Ø – 12 mm) if 12,1 < Ø < 16 mm | |

| EN 892 principal requirements extract | | | |
|--|----------------------|----------------------|---------------------------------|
| Type | Single rope ① | Double rope ② | Twin rope ③ |
| Number of falls (Factor 2) | ≥ 5 falls (80 kg) | ≥ 5 falls (50 kg) | ≥ 12 falls (80 kg 2 strands) |
| Impact force (Factor 2) | ≤ 1200 daN | ≤ 800 daN | ≤ 1200 daN |
| Dynamic elongation (Factor 2) | < 40% | | |
| Static elongation | ≤ 10 % | ≤ 12 % | ≤ 10% |
| Sheath slippage | ≤ 20 mm | | |

Caution: the densities and the stated diameters can be different from the commercial appellation and the diameters under load.