

MINIMUM BREAKING LOAD

The required minimum breaking load (MBL) of a rope varies depending on its intended use. It can be adjusted via the characteristics of the processed materials and the type of rope construction.

The minimum breaking load describes the maximum force under straight pull a free length of rope can be exposed to until it breaks. It is specified in daN or kN. The minimum breaking load for ropes required under EN

1891 A is 22 kN. The following comparison shows the average minimum breaking loads (MBL) determined in regular in-house quality tests for 10.5 mm and 11 mm diameter TEUFELBERGER ropes to EN 1891 A.

Average MBL // 10.5mm ropes

Rope	Diameter mm	Minimum breaking load daN
PLATINUM® Protect PA	10.5	3.080
Fides III	10.5	3.080
PLATINUM® Protect PES/PA	10.5	3.080
PLATINUM® Offshore Access	10.5	3.080
KM III	10.5	3.300
Tutor XG	10.5	3.520
Patron PLUS	10.5	3.520
Patron	10.5	3.520

Average MBL // 11mm ropes

Rope	Diameter mm	Minimum breaking load daN
Patron PLUS	11.0	3.630
Patron	11.0	3.630
Fides III	11.0	3.630
Tutor XG	11.0	3.740
PLATINUM® XG	11.0	3.740
Comes	11.0	3.850
KM III	11.0	3.860
Ultrastatic	11.0	4.400

