

R2AK – Appendix – Lifelines – 2020

Lifeline deflection shall not exceed the following:

When a deflecting force of 50 N (5.1 kg or 11.2 lb.) is applied to a lifeline midway between supports of a lifeline, the lifeline shall not deflect more than 100mm.

This measurement shall be taken at the widest span between supports that are aft of the mast. For purposes of measuring sag, any elastic tensioning mechanism shall be released prior to measurement.

Lifeline Minimum Diameters, Required Materials, Specifications

(a) The minimum diameter is specified in table below.

(b) Stainless steel lifelines shall be uncoated and used without close-fitting sleeving, however temporary sleeving may be fitted provided it can be regularly removed for inspection.

(c) When stainless wire is used, Grade 316 is recommended

(d) When HMPE (Dyneema/Spectra) is used, it shall be spliced in accordance with the manufacturer's recommended procedures.

(e) A lanyard of synthetic rope may be used to secure lifelines provided the gap it closes does not exceed 100mm (4in). This lanyard shall be replaced annually at a minimum.

(f) All wire, rope, fittings, anchorage points, fixtures and lanyards shall comprise a lifeline enclosure system which has at all points at least the breaking strength of the required lifeline.

Minimum Required Diameter

LOA	wire	Single braid Dyneema rope	Braid on braid Dyneema cored rope
Under 8.5m(28ft)	3mm (1/8")	4mm (5/32")	4mm (5/32")
8.5m-13m	4mm (5/32")	5mm (3/16")	5mm (3/16")
Over 13m (43ft)	5mm (3/16")	5mm (3/16")	5mm (3/16")