

Rope Handling

During rope inspection the following should be considered.

External Wear

Arborist braids develop fur/pile on the surface as a result of friction and abrasion. This is normal and forms a protective barrier to the main body of the jacket yarns initially. Excessive wear is indicated by severe yarn filamentation or breakage either distorting the round profile of the braid, breaking yarns or exposing the core materials through the jacket. Note, certified kernmantle braids must have a contrasting colour core to jacket to assist this inspection. In the event of significant jacket wear the braid must be retired immediately.

Internal Wear

Dirt, grit or other foreign matter may penetrate between the core and jacket constructions. Examination must be undertaken carefully being mindful not to buckle or distort fibres in this process which may cause problems later. The presence of large quantities of fibre duct in the centre of the rope indicate that replacement is due.

Chemical or Sunlight attack

Degenerative contamination can occur when synthetic fibre through accidental exposure to chemicals. Nylon is sensitive to strong oxidising agents and mineral acids.

It is soluble in formic acid, concentrated sulphuric acid and phenolic compounds. Examination should determine whether any areas of fusion or carbonisation are present.

If in doubt, discard the braid.

The entire length of the rope should be carefully inspected prior to and at completion of every use. Avoid using rope that shows signs of wear, if in doubt, retire the rope.

Protective Measures

Always store, transport and contain braids in a dustproof, strong storage bag which is impervious to light. Always use Kernmantle static abseil braids only for the purpose they have been designed and intended. It is good practice to maintain a braid history/usage log to assist in determining a responsible retiring date on aged product.

Arboriculture involves inherent dangers emerging from technique or technical application or the impinging of external factors.

Donaghys' products are manufactured to the highest quality and certified standards as labelled, however correct and proper care, storage and use in conjunction with certified hardware is imperative to enhancing safety in use. The following guide-lines are important for correct use, but can never replace experience, responsibility and knowledge of possible dangers. Full responsibility in all respects relating to the use of the product rests with the user. In no event will Donaghys be liable in the event of any departure from the prudent application of these guide-lines.

Commitment Statement

Donaghys are dedicated to supplying the Arboriculture industry with high quality certified climbing and rigging lines. We are ISO 9001 certified, and our climbing lines meet or exceed the ANSI Z-133 standard as well as meeting all local OSH requirements.

Donaghys R&D team continually search for ways of improving our products by maintaining close relationships with people who trust their lives with Donaghys Arborist ropes.

Member:

ISA (International Society of Arboriculture)

NZAA (New Zealand Arboricultural Association)

ISAAC (International Society of Arboriculture – Australian Chapter)

