

boo®

tree cabling system



Assembly- Instruction

arboa
tree safety

boa® Product range

Since 1993: (EU Patent 0623277) with over 500.000 connections the successful tree bracing systems worldwide further developed in 2005 named boa.

Compliant to German tree care standards (ZTV)



Next to the individual components there are the following sets:



boa® 2 to \varnothing 14 mm
hollow braided rope (PP)
Tangle free for 15 cabling:
 100 m of rope
 30 expansion inserts (100 cm)
 25 m anti abrasion-hose
 12 shock absorbers
 15 colour-coded discs
 2 special gliding tapes 10 m



boa® 4 to \varnothing 24 mm
hollow braided rope (PP)
Tangle free for 15 cabling:
 50 m of rope
 10 expansion inserts (100 cm)
 12,5 m anti abrasion-hose
 5 shock absorbers
 5 colour-coded discs
 1 special gliding tapes 5 m



boa® Tangle free
 for 2 to and 4 to
 utility model-nr.: 20 2006 002665.7



boa® 8 to \varnothing 30 mm
hollow braided rope (PES)
for 5 cabling:
 50 m of rope
 10 expansion inserts (100 cm)
 12,5 m anti abrasion-hose
 6 shock absorbers
 5 colour-coded discs
 2 special gliding tapes 10 m



boa® silver/black 8 to
 hollow braided rope (dyna-one)
 Dyneema-loop S (120 cm)
 Dyneema-loop M (160 cm)
 Dyneema-loop L (200 cm)



boa® 2 to start-set
hollow braided rope (PP)
Tangle free for 3 cabling:
 20 m of rope
 6 expansion inserts (100 cm)
 5 m anti abrasion-hose
 3 shock absorbers
 3 colour-coded discs
 1 special gliding tapes 5 m



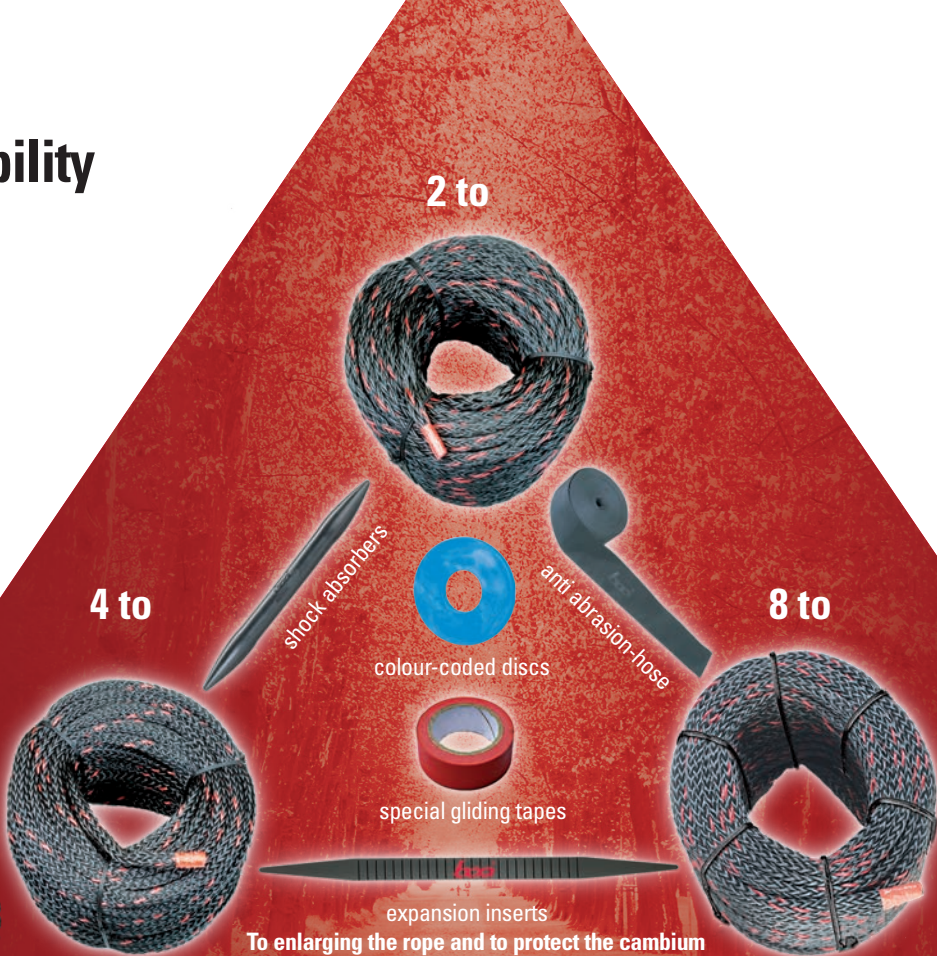
Crosswise-compatibility

**Brilliant and easy,
crosswise-compatibility
at 2 to, 4 to and 8 to**

Each of the three rope strengths are comprised of the same components: shock absorber, anti abrasion hose, expansion insert, color coded disc and the special gliding tape.

save:

- space
- transport
- offcut
- time
- money



boa[®] Important things to know

And some helpful assembly tips

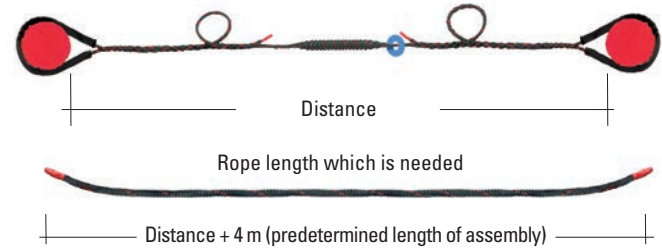
The only tangle free rope off the world. Exclusive available with arboa.

It is a nuisance to arborists when a cable comes off the spool tangled. **boa** hollow braided rop employ a special newly patented winding method: **Tangle free** which ensures the 2 and 4 ton cables off the spool tangle free.



For 2 to and 4 to
(Utility model
protection-nr:
20 2006 002665.7)

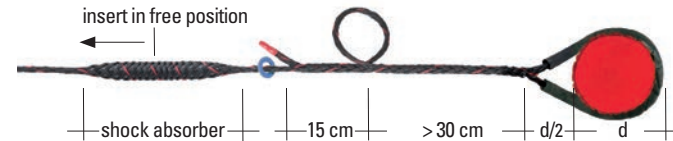
■ Calculation of the rope length:



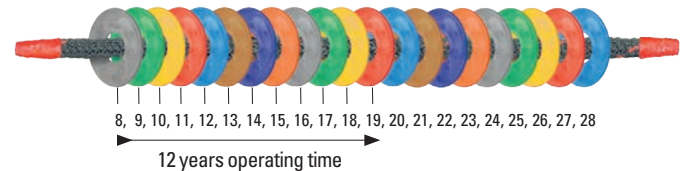
■ Insertion position of the expansion insert:



■ Length distance of a safe Quicksplice



colour-coded disc shows the year of installation





Assembly of the rope

7 steps to success

■ Quick installed without a splicing awl.
No burner needed.

■ Easy to control color coded disc to know exactly the year of assembly according to ZTV.

■ Take it out of the jute bag for a **tangle free** extraction of the rope at 2 and 4 to



European Champion 2003
and German Champion 2014
in tree climbing - permanently
efficiently like **boo**
During 12 years



Step 1
Insert the
colour coded disc.



Step 2
Compress the
rope 120 cm from
the end.



Step 3
Insert the
expansion insert.



Step 4
Pull the **anti-abrasion**
hose over the **rope**
with expansion insert.



Rope and
shock absorber
for a dynamic tree
bracing.



Step 5
Compress the rope
and insert the shock
absorber, through a mesh into the rope.



Step 6

Entwine the branch, **Quicksplice**:
insert the tapered rope with gliding
tape through the mesh into the rope
at least distance to the branch of 1/2
branch diameter.



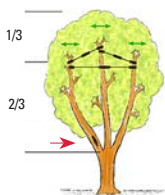
Step 7

Pull out the end of the rope after at least of 30 cm, form the **incremental loop/tension loop**. Insert the end of the rope again into the rope. **Now form the second side of the bracing system, then:** tighten with the tension loop ... Done!

True tree safety in accordance with German tree care standards (ZTV)

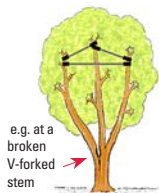
■ Dynamic cabling system

For natural growth, the crowns of tree need to move freely and not be rigidly anchored. Dynamic crown stabilization prevents excessive movement, and a flexible rope acts as a gentle brake. The shock absorber is especially advantageous when compensating for weaknesses since it also allows for some movement in light winds. This is the ideal application for **boa 2** and 4 ton systems **with shock absorbers**.



■ Static cabling system

When V-forked codominant stems with ingrown bark show cracks, movement should be completely prevented. Movement can be stopped using a static or rigid cabling system. In those instances shock absorbers should not be used in the cabling system. For rigid cabling, the load-bearing capacity of the ropes needs to be doubled as compared to dynamic systems. For rigid bracing, the **boa 4** ton system with no shock absorber or the extremely rigid **boa silver/black 8** ton system (for which there is no shock absorber) should be used.



■ Branch weight supporting - load cabling system

It is not always possible to secure a tree crown that nothing will fail. However, if there is a possibility of a branch failure, it is necessary to ensure that nothing can fall to the ground. Systems to catch falling branches are impractical in trees because there is no anchor point which could withstand the resulting drop energy. Therefore, load cabling system are installed in a vertical orientation. For this type of application, all tree **boa** systems **without shock absorbers** or the extremely rigid **boa silver/black 8** ton system (for which there is no shock absorber) should be used.



boa® should be measured in the following way according to ZTV

■ Dynamic cabling system chart 1: installing the cabling system at 2/3 of of the height of the stem

Branch base diameter	Recommended load bearing capacity during guarantee period
up to 40 cm	2 to
40-60 cm	4 to
60-80 cm	8 to

Static cabling system: **double** these collapse loads

■ Load cabling system chart 2:

Branch base diameter	Minimum load bearing capacity
up to 30 cm	2 to
30-40 cm	4 to
40-60 cm	8 to
60-80 cm	16 to (installation of 2 x 8 to is possible)

■ **boa** provides a 12-year product life expectancy rather than the 8 years minimum required in ZTV



Further products of **arboa** - and publications

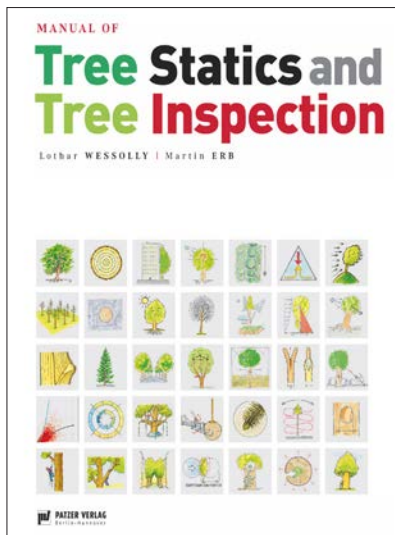
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The basic of tree
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www.arboa.com



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Manual of Tree Statics and Tree Inspection,
Patzer Verlag 2016, English version.

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t r e e s a f e t y