

KLP® RapidRetain System



KLP® RapidRetain System presents a sustainable and cost efficient solution for your retaining wall! KLP® plastic is an excellent choice, especially at the water and air interface, where wood is most sensitive to rot. KLP® RapidRetain system consists of KLP® RapidRetain panels and KLP® RapidRetain combi-poles.

The innovative design of this high strength retaining wall system provides savings on both labor costs by faster turnaround times in installation and lower purchasing costs by efficient use of materials. With the sophisticated design Lankhorst unites aspects that can already be found independent of each other in existing retaining solutions, but never before combined in one product!



The panels are tough enough and stiff enough to be pushed into soil by crane. The KLP® RapidRetain panel coupling is made strong, so that no pole is needed directly in front of each connection. The result is that all poles can be placed in one go and subsequently the panels can be placed in one go, which translates to faster turnaround times and therefore savings.

The KLP® RapidRetain panel has a length of 2.1 meter and is light in weight. This makes it easy to handle and efficient to place. Lankhorst advises to use geotextile. In some cases this may not be necessary, which should be determined per project.



As KLP® products are made from recycled materials, waste streams such as bottle caps, crates and agricultural film can be turned into new products with a long life. We make products that do not emit any substances to the environment, do not rot, nor are they affected by UV radiation, oil or solvents. The expected technical lifetime of our plastic products is at least 50 years during which the products practically require no maintenance.



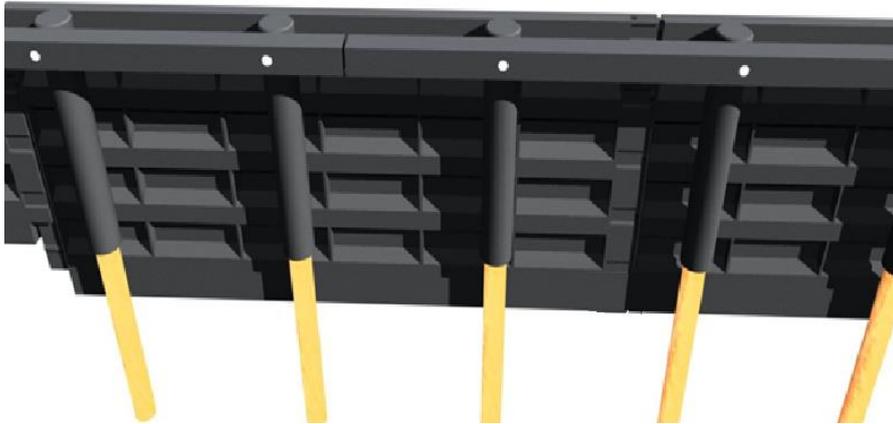
Procedure:

1. Place all poles in one go.
2. Place all panels in one go. No pole is needed directly in front of each connection. If required, the panel can be pushed into the ground to about 20 cm.
3. Align panels to the expansion joint to allow for the expansion of KLP®.
4. Connect panel to the pole by means of stainless steel chipboard screws.



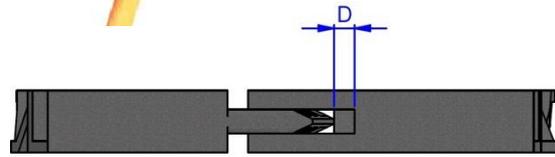
NRK Award 2018
Sustainable Products
Category Construction & Infrastructure

Durable & Environmentally friendly



KLP® RapidRetain panel

Depending on your application, you may choose from any of three panel heights. Each of the panel heights can be connected to any other KLP® RapidRetain panel. Panels can easily be connected by means of a smart interlocking system.



D = expansion joint

KLP® RapidRetain combi-pole

A combination of two materials brings the best of both worlds to the KLP® RapidRetain combi-pole. The KLP® Combi-pole consists of a pine wooden pole (C18) which lowers cost and provides rigidity. The plastic sheath is a rot resistant outside. The pine wood applied is PEFC certified to stem from sustainable forestry.



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KLP® RapidRetain panel (panel thickness: 4,9 cm):

60 x 210 cm (working length)

80 x 210 cm (working length)

100 x 210 cm (working length)

KLP® RapidRetain combi-posts including base point:

Ø12/10 x 300 cm

Ø12/10 x 250 cm

KLP® RapidRetain combi-posts excluding base point:

Ø12/10 x 400 cm

Ø12/10 x 500 cm

Ø12/12 x 500 cm

Length plastic sheath: 100 cm

Commonly used center-to-center distance poles: 70 cm

Optional extras for KLP® RapidRetain

10 x 10 x 520 cm KLP®-S Fender (peg&hole connection)

12 x 12 x 360 cm KLP® Pole-RapidRetain corner solution*

* with a milled-out slot on one side: 5 x 4 x 360 cm

Advantages of KLP®:

- Sustainable
- Environmentally friendly
- Maintenance free
- Easy to process
- No rotting or splintering
- Recyclable
- UV, water and weather resistant
- Expected technical lifetime of at least 50 years

Durable & Environmentally friendly