

## KLP<sup>®</sup>-S Steel Reinforced Beams



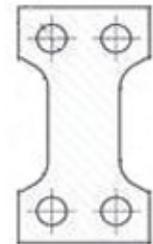
An important development at Lankhorst is the unique range of recycled **KLP<sup>®</sup>-S Steel Reinforced Plastic Beams**. By using steel-reinforced plastic beams it is possible to construct landing stages and bridges with much larger spans. This means that, compared to traditional construction, fewer poles are needed, leading to significant savings on the overall material and construction costs. KLP<sup>®</sup> recycled plastic last decades, it does not rot or splinter, it does not require maintenance and it contains no poisonous substances.



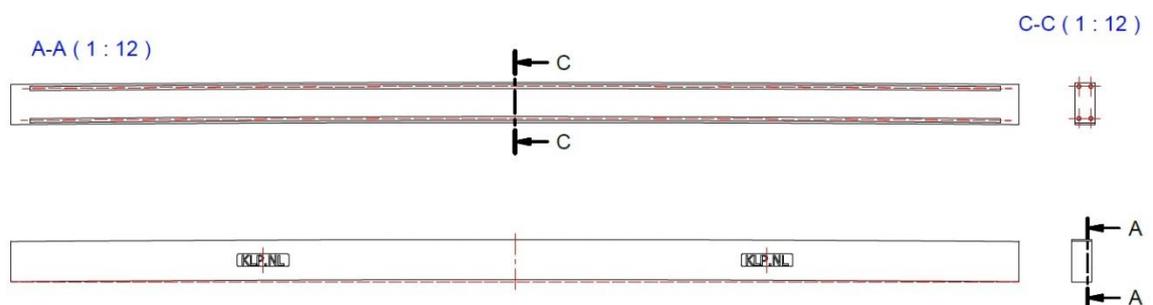
KLP<sup>®</sup>-S Steel Reinforced Plastic Beams are produced using a unique patented process developed by Lankhorst. Four steel reinforcement bars are integrated and encased within the plastic during the moulding process. Several diameters of steel bars are possible, depending on the application. We can gladly advise you.



An innovation in steel reinforced beams is our **KLP<sup>®</sup>-S I-Beam**. The unique design of this beam requires less material and therefore the KLP<sup>®</sup>-S I-Beam has a lower price. As the top and bottom faces of the beam are rectangular in shape they can be easily connected with the rest of the structure. In our range you will also find steel reinforced beams with an arch. These arched beams comply better with the current deflection requirements according to the Eurocode.



KLP<sup>®</sup>-S Steel Reinforced Plastic Beams have an expected technical lifetime of at least 50 years.



*Durable & Environmentally friendly*

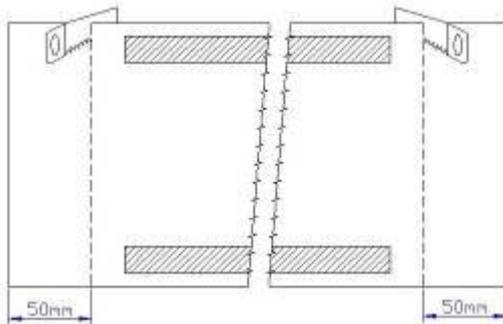
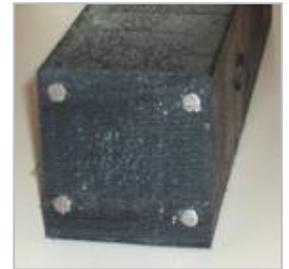
## KLP®-S Steel Reinforced Beams

14,5 x 7 x 500 cm, KLP®-S12  
 16 x 8 x 400 cm, KLP®-S16  
 16 x 8 x 400 cm, KLP®-S16 (arch 0,8 cm)  
 18 x 8 x 500 cm, KLP®-S16  
 24 x 9 x 500 cm, KLP®-S20 (arch 2,0 cm)  
 10 x 10 x 520 cm, KLP®-S16  
 25 x 15 x 520 cm, KLP®-S16  
 25 x 20 x 450 cm, KLP®-S12

## KLP® -S I-Beam

13,5 x 7 x 400 cm, KLP®-S16 I

Construction calculations according to Eurocode (NEN-EN 1990/1991).



The steel rods are fully moulded into the plastic. This way, the steel is protected from the elements and rust will therefore be prevented.

To enable easy and accurate fitting up to 5 cm can be cut from both ends.



## Advantages of KLP®:

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

*Durable & Environmentally friendly*