

## Have you ever seen a Water Bridge over a river?..... .



Water Bridge in Germany. What a feat! Even after you see it, it is still hard to believe!

Six years, 500 million euros, 918 meters long..... now this is engineering! This is a channel-bridge over the River Elbe and joins the former East and West Germany , as part of the unification project. It is located in the city of Magdeburg , near Berlin .

The photo was taken on the day of inauguration.

To those who appreciate engineering projects, here's a puzzle for you armchair engineers and physicists.

Did that bridge have to be designed to withstand the additional weight of ship and barge traffic, or just the weight of the water?

### **Answer:**

It only needs to be designed to withstand the weight of the water!

Why? A floating ship always displaces an amount of water that weighs the same as the ship, regardless of how heavily a ship may be loaded.