

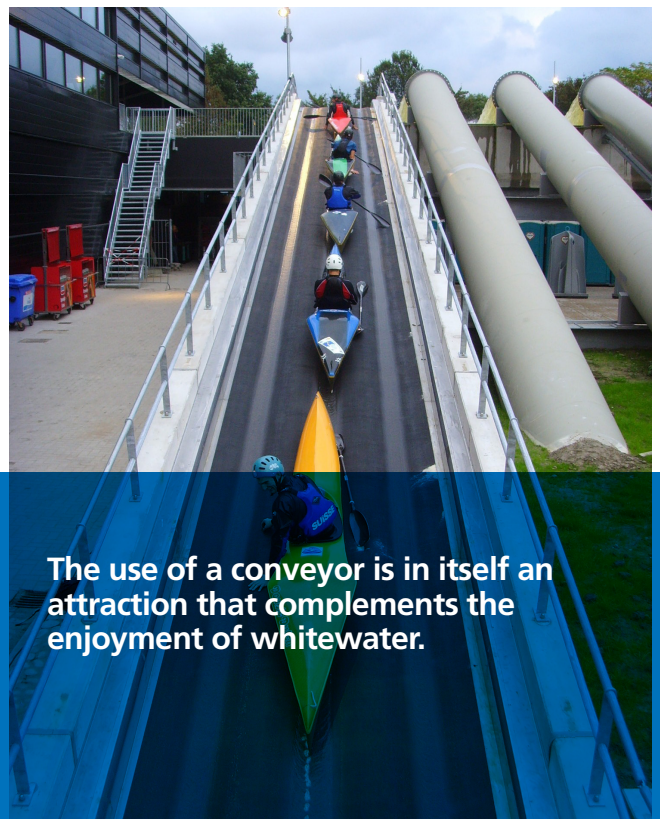
The conveyor belt, essential on a whitewater course.

Hydrostadium has been a designer and supplier of conveyor belts over more than twenty years for the equipment of whitewater courses worldwide.

With a conveyor belt all types of boats, from canoeing or kayaking to the largest rafts, can easily ascend from the arrival area to a white water course departure without the users getting off the boat.

The structure allows several rafts to be carried simultaneously with their passengers.

The geometry of the conveyor belt is very important, as it must balance the compactness of the structure with its ability to allow safe use. The conveyor must have an optimal slope both up and down. The top section of the conveyor is specifically designed to prevent boat damage.



The use of a conveyor is in itself an attraction that complements the enjoyment of whitewater.



MAIN FIGURES

- THE TOTAL WEIGHT THAT CAN BE TRANSPORTED ON THE CONVEYOR BELT IS 3500 KG AT A SPEED OF 0.8 M/S.
- SLOPE BETWEEN 20 AND 25%
- THE MINIMUM WATER LEVEL AT THE ENTRANCE AND THE EXIT OF THE CONVEYOR BELT MUST BE 0.20 M FOR BOTH UPSTREAM AND DOWNSTREAM WATER AREAS.

Important technical know-how.

Emergency shutdown devices must be installed at strategic spots to stop the equipment in case of danger to users.

The conveyor belt has a width of 1800 mm, which enables the passage of all types of boats that can navigate the white water course.

The conveyor consists of a stainless steel frame on which glides a belt of synthetic material driven by an electric motor and its speed reducer. These two components are positioned at the bottom of the equipment. The tensioning of the belt is automatic and it is possible to adjust its centering in the frame manually. The conveyor belt is supported by rollers below.

The sliding surface of the belt is given special attention in order to ensure that boats of all types are properly guided and to avoid the sticking of the belt on the support plate.

The conveyor belt is installed in a reinforced concrete structure to which it is fixed by metal dowels. On either side of the conveyor belt, stainless steel closing plates connect it to concrete walls to ensure the user's safety.

In order to adapt to certain projects such as Athens, the conveyor belt can be designed as a self-supporting metal structure.



Optionally, the starting of the conveyor belt can be triggered by passing a boat in front of a radar detection device with a time delay that will allow the conveyor belt to operate for the time required to lift a boat.