

DESIGN A WATER SLIDE STRUCTURE – ‘THE SPIN’

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ABSTRACT

Today, there are more than 1000 water parks and attractions designed and installed in more than 30 countries in the world. In Malaysia, there are several resorts that have this water parks as tourist attractions such as Sunway Lagoon Resort and Taman Desa Air water theme park in Selangor, A’Famosa Resort in Malacca, Pedas water world in Negeri Sembilan and so on. Our project title named design a theme park waterslide structure – ‘The Spin’ is a waterslide structure, which is safe and well-designed waterslide structure that can apply and constructed in any watermarks in the Peninsular Malaysia as well as in Sabah and Sarawak.

Basically the content describes how the waterslide structure is being designed based on engineering point of view. Detailed calculations include moving dynamics and curve design for each and every part of the waterslide structure. Besides, structural an supports calculations for the waterslide structure will be shown in the later pages of the report. We also created an architectural plan for each of them during the early stages of design. Next, a series of study and safety concern will also be discussed in a general way. Furthermore, ergonomic study and safety concern will also be carried out in order to achieve the highest factor of safety for each user who played the game.

This report is worth reading if reader intended to know more about the waterslide structure.