



Perspective of
playground in Pili

Playgrounds for Schools, after Typhoon Haiyan, Philippines

As part of its humanitarian response to Typhoon Haiyan/ Yolanda in 2013, Caritas Switzerland rehabilitates seven schools in Northern Cebu. In addition to classrooms to study, children also need a place to let off steam safely during the breaks. The schools currently do not have playgrounds as the local communities cannot afford them. Therefore, Caritas Switzerland seeks to construct basic but flexible playgrounds for the five schools that have enough space to accommodate a volleyball field, some monkey bars and culverts (concrete tubes). The design of the playgrounds corresponds to the local standards and would be finalised in coordination with the school committees including the students, staff and representatives of the authorities. The simple design and robust materials facilitate maintenance of the infrastructure.

Design

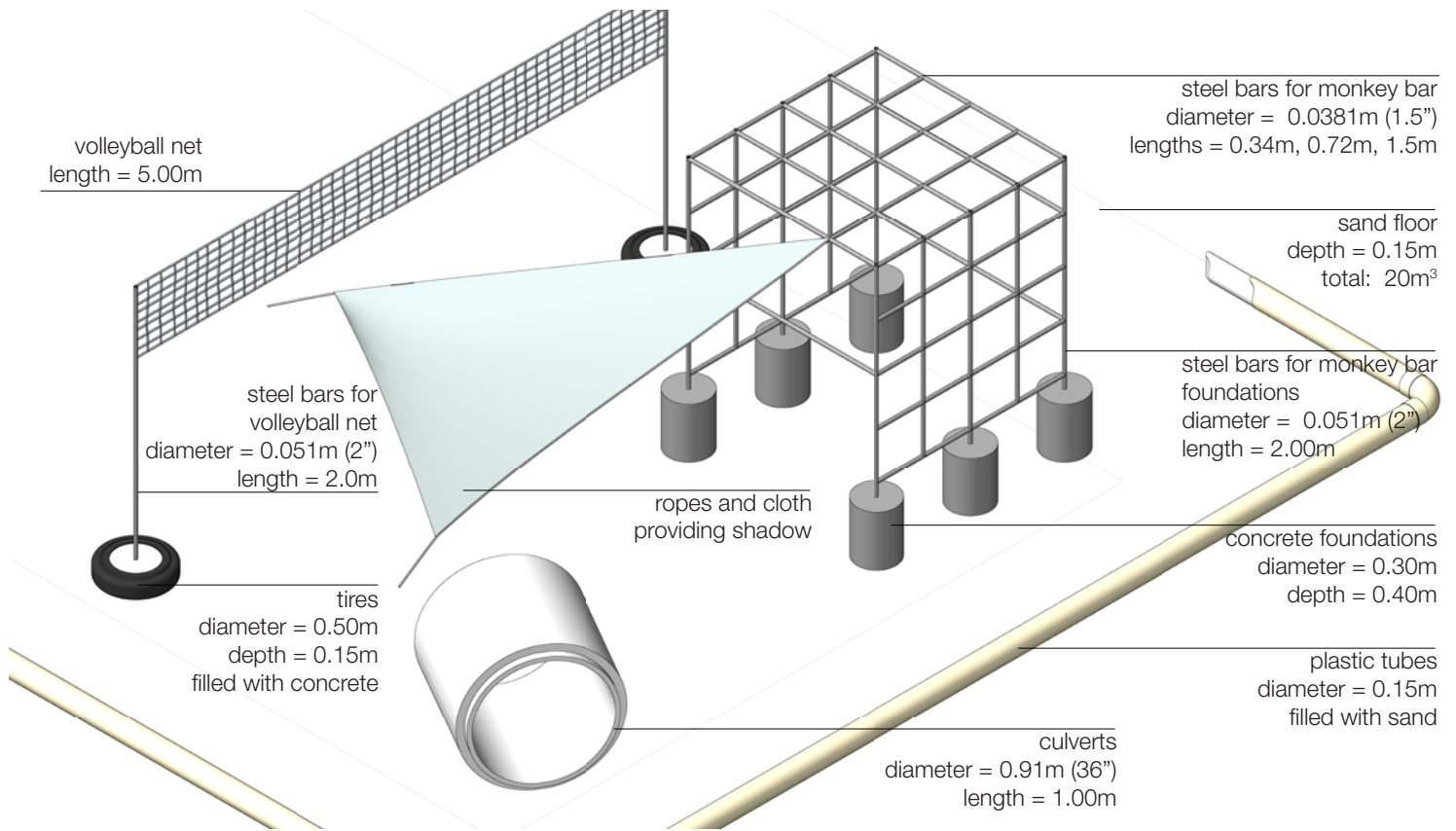
One playground-set consists of three monkey bars, two concrete tubes and a volleyball field. The layout of the playground generates voids between the three monkey bars which can be used to provide shadow by connecting the bars with cloth. In addition, the culverts (concrete tubes) offer the pupils the opportunity to hole up, protected from the sun. The volleyball field is placed next to the monkey bars while the net can be arranged flexibly.



Children playing on schoolyard in Talangnan



Site for playground in Malbago

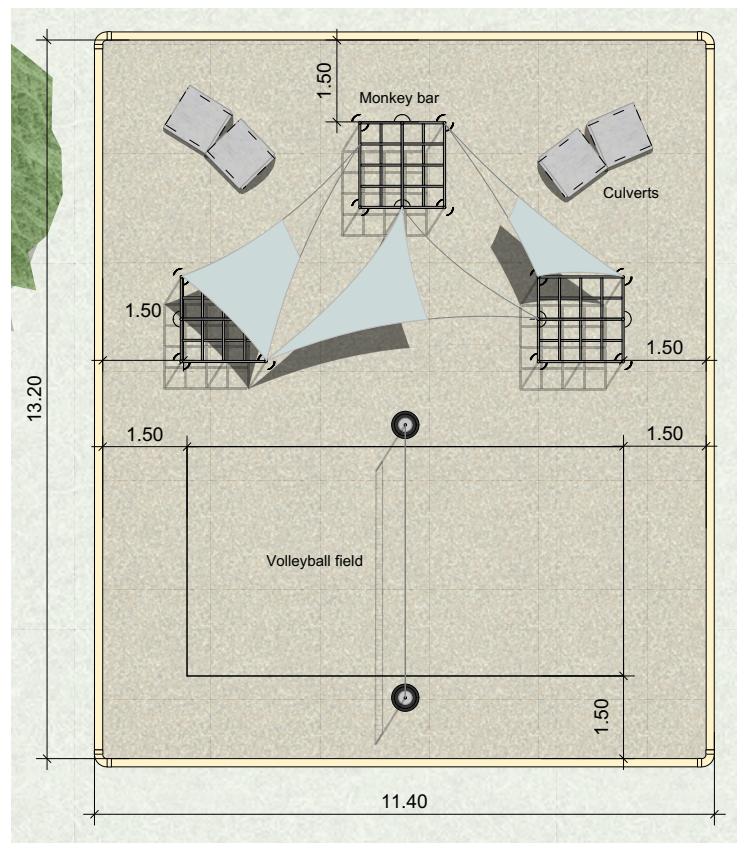


Dimensions and Materials

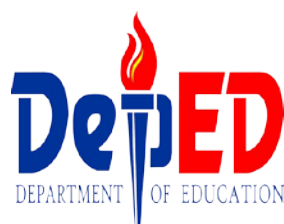
One playground set
(3 monkey bars, 4 culverts, 1 volleyball field):

- 19x steel bar (l=6m, d=0.038m (1.5"))
- 8x steel bar (l=6m, d=0.051m (2"))
- 0.25m³ concrete
- 50m plastic tube (d=0.15m)
- 4x plastic tube corner (90°)
- 4x culvert (l=1.0m, d=0.91m (36"))
- 2x vehicle tire (d=0.50m)
- 20m³ sand
- Volleyball net, ropes, cloth

The monkey bar is composed of steel bars in four different lengths (0.34m, 0.73m, 1.50m, 2.00m) and two different diameters (1.5", 2"). The six foundations keep the bars in the ground, ensuring their stability. For safety reasons, the monkey bars are placed 1.50m away from the playground border so the children do not fall on the plastic tubes but on the soft sand. The stands for the volleyball field are concreted in vehicle tires and can be arranged flexibly according to the size of the field. The culverts are buried 0.3m in the soil and the plastic tubes are filled with sand, therefore, the tubes cannot be moved away from the site. All parts including the steel bars and the tubes can be painted in different colors.



Site plan of the playground



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