UNHCR
Emergency Tapstand Design

Tools and Guidance for Refugee Settings

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The UN Refugee Agency
NOTES
1. Tapstand to be positioned centrally with tap spouts exactly 50cm above wooden pallet surface.
2. Pallet drain and drainage channel to be filled with 20cm deep layer of coarse gravel with 1% slope to soakage pit.
3. Soakage pit dimensions to be determined by on-site soil infiltration test (see Appendix 20 of Engineering in Emergencies. Alternatively refer to the table of typical soil infiltration rates on page 213 of the UNHCR WASH Manual).
1. Area of 6m x 3m to be cleared and perfectly leveled.

2. Excavate the platform base and drainage channel trench to 25cm below ground level.

The depth of the soakage pit should be calculated based on the site soil infiltration capacity following the procedure in Appendix 20 of Engineering in Emergencies. Alternatively refer to the table of typical soil infiltration rates on page 213 of the UNHCR WASH Manual.
3. Add a 20cm deep layer of coarse gravel into the platform base and drainage channel.

Ensure the surface is perfectly leveled.

4. Pallet surface level should be 5-8cm above ground level.

Tap spouts should be exactly 50cm above pallet surface level.