

UNICEF Target Product Profile: Accessible Latrine Slab for Emergencies

**** Please Note: The product described in this document will be a required component of the emergency latrine slabs/squatting plates, for which a tender is set to be announced in June 2016. For more information, please visit UNICEF's 2016 tender calendar: http://www.unicef.org/supply/index_25983.html**

While this document intends to inform suppliers of the desired performance requirements and provide additional background information on the product's intended use, the final required specifications will not be released until June 2016. Manufacturers are encouraged to send questions, designs, or prototypes to UNICEF Supply Division prior to the tender process so that we may provide feedback and ensure alignment with the specifications in the tender. Responses are requested by 15 May 2016.

Queries and responses can be sent to: washsupply@unicef.org with the subject line "Accessible Latrine Slab". Please note that questions which are relevant to all suppliers may be shared publicly. Suppliers will be informed of any additions or edits to this document prior to the tender.

Problem Statement/Need for the Product

Current sanitation products (including latrine slabs and super-structures) used in emergencies do not include components for enabling access by elderly or persons living with disabilities (including children). UNICEF is seeking solutions to improve access to latrines in emergency contexts such as refugee camps or settlements. The solution must be able to be easily integrated with the existing self-supporting latrine slab used by UNICEF in emergencies. The details and specifications of this slab can be found [here](#).

Background

Programmatic Relevance for UNICEF

UNICEF's strategic priorities include a renewed focus on equity, and ensuring that both regular UNICEF programming and emergency response address the needs of children living with disabilities. Persons living with disabilities are considered more vulnerable and at risk for illness, as well economic and social exclusion—challenges which are exacerbated in emergency contexts.

Current products or response used by UNICEF:

For emergency response, UNICEF currently procures a self-supporting plastic direct-drop squatting plate with foot rests, with an attached, preferably hinged, drophole cover. The squatting plate supports a weight of minimum 150kgs at the centre, with a minimal support structure extending up to a maximum of 10 cm from the edge of the slab. Products should be durable and designed with tropical temperatures and direct sunshine in mind.

Holes are provided on the extreme four corners of the squatting plate through which the four provided anchor/fixation pegs can be inserted with water-tight fit. These metal pegs of dimensions 8 mm x 275 mm are included in supply of the slab. An arrangement is provided on the underside of the squatting plate to enable fastening of a pan/bowl and water-seal trap if required. This fastening can be by bolting or other secure principle.

Dimensions are typically as follows: Length 1200 mm, width 800 mm, thickness 55 mm (or thickness as appropriate for an optimized number of plates on a standard Euro pallet, while respecting the plate strength criteria).

Volume & Potential Impact

Depending on the number and magnitude of emergencies in a given year, procurement of these products fluctuate. In 2015, UNICEF procured approximately 62,000 of the emergency slabs. Potential procurement of disability components could comprise around to 10% of all orders.

However, this does not account for other aid organizations or governments which might procure latrine slabs for emergencies and see a need for the accessibility component.

Use of product in UNICEF context

Emergency Response/Displacement Camps

Latrine construction in emergencies usually takes place rapidly, with one row or block of latrines (consisting of 4-5 dropholes or stances) being constructed over a trench in one day. Construction and installation is often done by unskilled labour with minimal instructions and locally available tools. Handicap International guidelines (see Additional References below) recommend that 10% of latrines in short term camps or 20% in long term camps be accessible—this would amount to approximately 1 out of every 10 stances or 1 out of every 5 stances, respectively.

- **User description:** Individuals may be elderly or pregnant with limited mobility, or persons (including children) with physical disabilities with varying levels of mobility. Latrines are typically segregated by gender, but will be used by both adults and children.
- **Use environment:** Refugee camps or settlements with limited to no access to grid electricity, common hardware or machine tools.
- **Geographic location:** Global, but can include harsh environmental conditions, including extreme heat or cold and limited access to water

Use Case Requirements

Attribute	Minimum Performance	Ideal Performance
Operational/Functional Requirements		
<i>Key function(s)</i>	Provide support and assistance for squatting position. (Supported squat)	Provide support and assistance with handrails and a seat, to avoid squatting.
Performance Requirements		
<i>Weight</i>	Able to support up to 150 kg	Able to support up to 150 kg
<i>Stability</i>	Handrails should be securely fastened to the slab and minimize lateral movement when user is pulling up or pushing down on handrails.	<ul style="list-style-type: none"> - Handrails should be securely fastened to the slab and minimal to no lateral movement when user is pulling up or pushing down on handrails. - Potty/Seat securely fastened to slab, no lateral movement.
<i>Durability</i>	<ul style="list-style-type: none"> - Can withstand extreme weather conditions including direct sunlight. 	<ul style="list-style-type: none"> - Can withstand extreme weather conditions including direct sunlight. - Multi-use: Able to be deconstructed and reconstructed multiple times
Design Requirements		
<i>Compatibility</i>	Must be easily integrated with UNICEF's existing emergency slab product.	<ul style="list-style-type: none"> - Must be easily integrated with UNICEF's existing emergency slab product.

		<ul style="list-style-type: none"> - Does not require significant modifications to the current slab in the form of drilling additional holes for bolts, etc.
<i>Installation Requirements</i>	<ul style="list-style-type: none"> - All required tools and any additional hardware are included with the product. - Minimal additional instructions required. 	<ul style="list-style-type: none"> - Additional hardware included with the product, replacement hardware can be found locally. - Can be assembled using locally available tools. - Minimal to no additional instructions required.
<i>Equipment dimensions</i>	<ul style="list-style-type: none"> - Drophole opening: dimensions should not be affected and should be according to standards (with caution that a small child, less than 6 months, not be able to pass through the hole). Should be easy for users to manoeuvre in between railings/bars. 	<ul style="list-style-type: none"> - Handrails: recommended height of approximately 0.7- 0.8m. - Seat/Potty: recommended height of approximately 0.5m. - Drophole/seat opening: dimensions should not be affected and should be according to standards (with caution that a small child, less than 6 months, not be able to pass through the hole). - Should be easy for users to manoeuvre in between railings/bars. -
<i>Materials Used</i>	<ul style="list-style-type: none"> - Plastic for handrails acceptable as long as weight requirements are observed (able to support up to 150kg) - All materials should be easily cleanable, without pores etc. Corrosive-resistant. - 	<ul style="list-style-type: none"> - All materials should be easily cleanable, without pores etc. Non-corrosive. - Child-friendly design, no exposed sharp edges or protruding hardware.
Commercialization Requirements		
<i>Safety Requirements</i>	<ul style="list-style-type: none"> - According to standards - Child-friendly design, no exposed sharp edges or protruding hardware. 	<ul style="list-style-type: none"> - According to standards - Child-friendly design, no exposed sharp edges or protruding hardware.
<i>Supply, support, or maintenance</i>	<ul style="list-style-type: none"> - Shipping size: Compatible with standard pallet sizes. 	<ul style="list-style-type: none"> - Shipping size: Compatible with standard pallet sizes, high packing density (through nesting or other means).

Additional References

More information on Accessible Water and Sanitation facilities in Emergencies can be found through the following links:

Handicap International Guideline for Accessibility in Refugee Camps:

<https://data.unhcr.org/syrianrefugees/download.php?id=1557>

UNICEF's State of the World's Children Report, 2013: *Children living with Disabilities, Water and Sanitation*. http://www.unicef.org/disabilities/files/Final_Flyer_WASH.pdf

Oxfam Guidance for Accessible Facilities for Physically Vulnerable Persons in Emergencies:

http://www.unicef.org/cholera/Chapter_9_community/17_OXFAM_Excreta_Disposal_for_Physically_Vulnerable_People_in_Emergencies_2.pdf