



ASSISTIVE PRODUCT SPECIFICATION FOR PROCUREMENT

Portable ramps

Objective:

The objective of this specification is to help organizations in procuring good quality portable ramps that are durable and which assist the individuals with moving up and down slopes

World Health Organization

1. Product description

The purpose of this section is to provide specific key details relevant to the assistive product so that it is easily identifiable.	
Purpose of 1.1	Name of product as per WHO priority APL and/or commonly used names.
1.1 Name of product	Portable ramps
Purpose of 1.2	As per ISO 9999 classification and terminology document (refer https://www.iso.org/standard/60547.html).
1.2 ISO 9999 code	18 30 15 <i>Portable ramps</i> Moveable sloping surfaces that bridge a limited gap between two levels
Purpose of 1.3	Describes the product type in clear, simple, easily understood language and the intended use in addressing functional needs.
1.3 Description and intended use	<p>A portable ramp is a moveable sloping surface that bridges a limited gap between two levels. The purpose of using portable ramps is to move up and down the stairs for persons with difficulties in walking such as wheelchair users, as well as people pushing strollers, carts, or other wheeled objects. Portable ramps may also be used in rough terrain or used by persons to enter/leave cars. A portable ramp can be carried and transported. To provide accessibility to buildings, rough terrain or entering cars for persons who have walking impairments.</p> <p>Portable ramps are used to enable:</p> <ul style="list-style-type: none"> • Access to, or move around a home or other buildings over a maximum of two steps • Access to a wheelchair accessible vehicle for a person in a wheelchair • To assist with putting a mobility device into a vehicle (with the user not in the wheelchair)
Purpose of 1.4	Refers to general characteristics of the assistive product that describes its appearance and components.
1.4 General features	A portable ramp is a moveable, flat supporting surface, and when being used to bridge a limited gap between two levels, it is tilted at an angle, with one end higher than the other (inclined plane). It is used as an aid for raising or lowering a load, e.g. when a person is entering or leaving a building without using stairs. There are wide platform portable ramps and twin track portable ramps that are equipped with carrying handle(s) and may be placed in a supplied carrying bag.
Purpose of 1.5	Refers to product models that are included in the specific APS.
1.5 Inclusion	<ul style="list-style-type: none"> • Wide platform portable ramp • Twin track portable ramp
Purpose of 1.6	Refers to product models that are excluded in the specific APS.
1.6 Exclusion	<ul style="list-style-type: none"> • Permanent ramps • Ramps longer than 3.5 m • Non-bridge portable ramps are excluded
Purpose of 1.7	Important, searchable words that relate to the specific assistive product.

1.7 Keywords	Accessibility, bridge, inclined plane surface, non-slip
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2. Product requirements

The purpose of this section is to provide details of all applicable requirements relative to the specific assistive product. A requirement is mandatory and typically describes what a product should be able to do, how it should appear (product and packaging) etc. Only supply and service requirements considered applicable in procurement of portable ramps.

2.1 Functional requirements

Purpose of 2.1		A functional requirement refers to technical details and other specific functionality that define what a product variation is supposed to accomplish. Per product variation, the requirement should describe the typical user, specific characteristics of the product (in addition to the general features above) as well as the requirements for standard configuration of the product. It is important to focus on performance requirements rather than form factors. It is important to have a clear and specific description of the typical users including e.g. health condition, functional limitation or demographics (range of age, body weight, height, etc). If applicable, specific context of use (e.g. indoor/outdoor, in noisy environment, etc) should be specified in the product variations.		
Item	Product variations	Typical user	Specific characteristics	Requirements for standard configuration
1	Wide platform portable ramps	For persons with difficulties in walking, e.g. people who use a wheelchair, walking aids or tricycles. It may need additional handrails for those with mobility impairments who cannot use ramps safely without support for balance (e.g. cane user)	• A portable ramp consists of one wide platform	Essential features: <ul style="list-style-type: none"> • Materials: made of aluminum or fiberglass, graphite fiber • Surface: Non-slip, which may be through deck grip, textured aluminum, or rubber Upper edges: raised (minimum height of 4 cm) • Strength: sufficient for safe, repeated use considering weight of user, assistive product and carer/assistant (if required). Minimum load of 300 kg (for wide platform) • Length: At least eight times longer than the height of the step(s) - (for example for a 20 cm high step, the ramp should be 160 cm long) • Width: Should range between 91cm – 107cm • Higher end height: given a maximum length of 3.5m, the height of higher end should not exceed 43.75cm. • Ramp ends: shaped to prevent ramp from sliding during use; angled for smooth transition onto and off the ramp
2	Twin portable ramps (two driving tracks)	For persons with difficulties in walking, e.g. people who use a wheelchair.	• A portable ramp consists of two driving tracks	Essential features: <ul style="list-style-type: none"> • Materials: made of aluminum or fiberglass, graphite fiber • Surface: Non-slip, which may be through deck grip, textured aluminum, rubber upper

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		It may need additional handrails for those with mobility impairments who cannot use ramps safely without support for balance (e.g. cane user)	<ul style="list-style-type: none"> • Edges: raised (minimum height 4 cm) • Strength: sufficient for safe, repeated use considering weight of user, assistive product and carer/assistant (if required). Minimum load of 175 kg (for Twin Track) • Length: At least eight times longer than the height of the step(s) - (for example for a 20 cm high step, the ramp should be 160 cm long) • Width: Each track should be not less than 15.5cm wide • Higher end height: given a maximum length of 3.5m, the height of higher end should not exceed 43.75cm. • Ramp ends: shaped to prevent ramp from sliding during use; angled for smooth transition onto and off the ramp
Purpose of 2.2	Brief and clear description of general product performance requirements and overall qualities (e.g. stability, strength, durability, waterproof, etc).		
2.2 General design requirements	<p>Easy to operate, strong/durable, parts being replaceable, made of waterproof light weight material. Driving surfaces and surfaces of the lips should be non-slip, even in wet conditions. There should be no squeezing hazard when operating the ramp's folding or telescoping mechanism. The ramp should not unfold or displace during transport. The portable ramp should be able to be mounted/installed without the use of tools.</p> <p>Where the length in use exceeds the maximum transport length, the portable ramp should be foldable, dissembled and/or lengthwise adjustable (telescopic). Usually, the portable ramp should be lightweight so that one person is able to carry and transport the product. The portable ramp should be equipped with carrying handle(s) or may be placed in a supplied carrying bag.</p> <p>Optional features: Lighter weight ramps made of specialist materials such as fiberglass, graphite fibre are useful where ramps will be moved frequently.</p>		
Purpose of 2.3	Details of existing or in-progress national or international standards should be provided here, whether freely or commercially available.		

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2.3 Standards	<p>Requirements: The products should be tested and fulfill the requirements of the international standards and/or regional or national standards for portable ramps. Requirements for the friction of the surface of the ramps should be stated.</p> <p>Documentation: A sum up of the results from the test laboratories that states the fulfillment of the requirements. The sum up should be dated and signed. The sum up should be delivered together with the offer.</p> <p>Requirements for cleaning and friction of the surface.</p> <p><i>There are currently no specific product standards for portable ramps however General Standards could be used such as:</i></p> <p>EN 12182:2012 Assistive products for people with disabilities-General requirements and test methods, or equivalent</p> <p>Each track should be marked with maximum load for the ramp or per track.</p> <p>Documentation:</p> <p>A report from the test laboratory confirming fulfilment of the test requirements. The report should be dated and signed. The test laboratories should be accredited for the methods of the appropriate standard(s) at the time of the testing.</p> <p>All documentation should be in the official language or in English (other languages could be specified too).</p>
Purpose of 2.4	<p>A certificate of conformity confirms that a product conforms to applicable national and/or international regulations. If a certificate is required for the specific assistive product, this information should be requested, e.g., CE (Europe), COC (Japan), GCC (USA).</p>
2.4 Certificate of conformity	<p>There should be a declaration of conformity for the products and accessories needed. For example for the European market products should be CE marked (or equivalent) according to 93/42/EEC - Directive about medical equipment, or equivalent. The declaration of conformity should be in English and/or another appropriate language.</p> <p>A certificate that the product conform with applicable national or international regulations and standards should be provided (for example, a declaration of conformity with the medical device directive or the medical device regulation of the European Union).</p> <p>If the product does not conform with applicable national or international regulations and standards, the supplier should provide a certificate that the product comply with the requirements in this call for tender and is safe and effective for use by the typical user.</p> <p>The certificate should specify the product, all applied standards, if any, and the name and contact information of the supplier and be provided with the tender. The certificate of conformity is a legal document and should be signed by an authorized person at the supplier.</p> <p>The certificate of conformity should be supplied in the official language or in English (other languages could be specified too).</p>
Purpose of 2.5	<p>Lists the relevant scope of information required to identify the appropriate size and weight of the assistive product in its standard configuration (specific dimensions may be given if appropriate).</p>

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2.5 Size and weight	<p>Information about the overall width, height, length and weight of portable ramps should be provided in English and in the official language where the products are supplied. If applicable, dimensions in operating and folded modes should be provided.</p> <p>Minimum and maximum heights of the handles and width between handles should be provided. Max. 16 kg per track.</p> <p>The length in use (length excluded lip surface) shall be 180 cm or minimum to cover the range from 100cm to 180cm in utility length.</p> <p>Transport length maximum 200cm and 300cm based on floor length of most vehicles.</p> <p>Inner utility width (measured between side edges) should be minimum 75 cm and maximum 95 cm.</p> <p>Each ramp should be provided with side edges on minimum 2cm and maximum 4cm (a side edge with a height of approximately one quarter of the diameter of the wheelchair's smallest wheel is recommended).</p>
Purpose of 2.6	<p>Lists the relevant scope of information that should be provided to service providers (e.g. how to select, assemble, fit, adapt, follow up, maintain, repair, refurbish the assistive product). The desired language(s) in which the technical information should be provided should be stated.</p>
2.6 Technical information (for service providers)	<p>Information on how to assemble and adapt the portable ramps should be provided.</p> <p>Instructions on how to maintain, service, repair and refurbish the portable ramps should be provided.</p> <p>The technical information should be provided in the official language where the products are supplied or in English (other languages could be specified too).</p>
Purpose of 2.7	<p>Lists the scope of information, and its format, that should be provided to end-users to show how to safely use the assistive product.</p>
2.7 Instructions for use	<p>A user manual with instructions for use of the portable ramps should be provided by the supplier. It should provide instructions on how to safely and effectively use the product, and how to maintain and clean it. It is intended for the user and/or care-giver.</p> <p>The user manual may be provided in print or electronic format.</p> <p>The user manual should be provided in English and in the official language where the products are supplied.</p> <p>Demonstrations and training in the use of the portable ramp should be done by professionals. A user manual should accompany the portable ramp and if applicable, an operating instruction should be printed on the portable ramp if considered necessary.</p> <p>Together with use of for example wheelchair or other assistive/mobility devices. It is important to check training skills with ramps and device in use.</p>
Purpose of 2.8	<p>Refers to the various weather and other environmental conditions, e.g., temperatures, humidity, rain, snow, sunshine, that the assistive product should be able to withstand.</p>

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2.8 Environment of use	Portable ramps should withstand various weather conditions, including rain, dust, snow, ice and sleet. They should also withstand ambient temperatures from +40 to -30 degrees Celsius and relative humidity ranging from 15% to 100%.
Purpose of 2.9	Refers to the duration of the warranty period and the details of the warranty the manufacturer/supplier should provide within the specified period.
2.9 Warranty	<p>Provided normal heedful use, the supplier should, during the warranty period and without extra expenses, repair parts which break on the products delivered. This comprises all spare parts and labour, except for normal wear and tear of the product.</p> <p>The warranty period should be at least 1 year after delivery of the portable ramps. The same should apply for spare parts and accessories.</p> <p>The supplier should cover all transport expenses when repairing portable ramps.</p> <p>Following a written complaint, the supplier should repair or replace the product within 10 working days and no more than 30 working days or other specified.</p>
Purpose of 2.10	Refers to the expected duration, in years, of the assistive product. Documents describing how this is ensured must be provided.
2.10 Lifespan	<p>Given the purpose of use by typical users, the portable ramps should be designed for a lifetime of at least 3 years.</p> <p>Documents describing how this is ensured should be provided.</p>
Purpose of 2.11	Lists the scope of information required in packaging and labeling the assistive product. Explains the state of assembly the assistive product should be in when received by the end-user.
2.11 Packaging, labelling, and state of assembly	<p>Each portable ramp should be delivered in an individual package with a label clearly stating details of the product. All necessary parts should be included in the package. The label should be marked with (in English or an appropriate language):</p> <ul style="list-style-type: none"> • Maximum load • Measurements (minimum-maximum) • Producer's or supplier's name • Name of the product <p>The package should withstand handling during transport.</p> <p>The portable ramps should be delivered fully assembled or assembled to such an extent that the remaining assembly can be carried out with the use of commonly available screwdrivers or wrenches. If any special tool is required, it should be included with the delivery.</p> <p>Package and transport should take place so that damage to the portable ramp, accessories and spare parts is avoided.</p>
Purpose of 2.12	Refers to additional product requirements, depending on the specific assistive product, e.g., material, corrosion-resistance, adjustability, foldability, etc.

2.12 Other product requirements	<p>In bids, the suppliers should give the following information about the portable ramp:</p> <ul style="list-style-type: none"> • Folding mode (folding, telescope) • Material • Corrosion resistance • Permitted cleaning methods • Operating instructions, including installation instructions
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3. Supply and service requirements

From the information provided below, only those supply and service requirements considered applicable may be used in a procurement bid.

The purpose of this section is to describe key supply and service requirements that are needed in order to ensure that the assistive product is received in due time, operational, being maintained/repaired and refurbished.	
Purpose of 3.1	Lists the scope of information to be requested on how the assistive product will be transported to the place of delivery.
3.1 Transportation	Information on how the portable ramps will be transported should be provided and who should pay for the transportation.
Purpose of 3.2	Specifies the time between placing an order and receiving delivery of the assistive product (e.g. that it should not exceed 30 calendar days).
3.2 Delivery time	The time between placing an order of up to 1 portable ramp and receiving delivery of them should not exceed 3 working days.
Purpose of 3.3	Refers to the specific details of the various accessories and spare parts available for the assistive product, including pricing and availability.
3.3 Accessories and spare parts	<p>The supplier should offer the following accessories and spares:</p> <ul style="list-style-type: none"> • All parts that the portable ramp consists of and which may be replaced at some stage, should be offered as spare parts. • For accessories and spare parts, the supplier should state which product/products the accessories and spare parts are meant for. • When an accessory consists of one part, the same part should not be offered both as an accessory and a spare part, but only as an accessory. When an accessory consists of several parts that can be replaced, all replaceable parts should be offered as spare parts. <p>Spare parts should be made available for a period of at least 5 years after the last order of portable ramps. The price of the spare parts should be offered per part and not per set or pair.</p>
Purpose of 3.4	Provides information regarding required maintenance services the supplier will provide, including the timeframe and frequency.
3.4 Maintenance	<p>Please select the applicable option:</p> <p><input type="checkbox"/> Not applicable in this call for tender.</p> <p><input type="checkbox"/> Maintenance procedures for ramp shall be indicated by supplier/manufacturer. Instructions shall be provided along with supply of portable ramps free of cost.</p>
Purpose of 3.5	Provides information regarding required repairment services the supplier will provide, including the timeframe and frequency.
3.5 Repair	Not applicable in this call for tender.
Purpose of 3.6	Provides information regarding required refurbishment services the supplier will provide, including the timeframe and frequency.

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3.6 Refurbishing	Not applicable in this call for tender.
Purpose of 3.7	Specifies if training service providers is required by suppliers, and the key elements included in the training (e.g. selection, assembly, fit, maintenance and repair of the assistive product). Refers to detailed training contents or materials, if available and applicable.
3.7 Training of service providers	Please select the applicable option: <input type="checkbox"/> Not applicable in this call for tender. <input type="checkbox"/> Suppliers/manufacturers shall have regular training (every 6 months) with service providers on the use and maintenance of portable ramp including education on new products.
Purpose of 3.8	Specifies if training users is required by suppliers, and the key elements included in the training (e.g. training to users should include fit, use, maintenance and cleaning of the assistive product). Refers to detailed training contents or materials, if available and applicable.
3.8 Training of users	Please select the applicable option: <input type="checkbox"/> Not applicable in this call for tender. <input type="checkbox"/> Users shall be trained on the appropriate use and maintenance of portable ramps on day of supply.
Purpose of 3.9	Provides information regarding other supply and service requirements.
3.9 Other supply and service requirements	Not applicable in this call for tender.