

Item Application Sample



General Information and Description

Blankets are used to provide insulation / protection against loss of body temperature, according to the requirements imposed by climate / temperature conditions. The insulation capacity of a blanket depends on two factors:

1. **The Thermal Resistance of Garments (TOG)**, a measurement of how well a material resists heat flow, where the higher the TOG rating, the better the insulation. It has to be noted that the TOG does not depend only on the weight or the raw material, but also on the fiber quality, the type of weaving or knitting, and fiber raising.
2. **The Air Permeability of the Material**, where low air permeability will ensure protection from draughts, while inherent breatheability allows evacuation of body perspiration.

Considerations for the selection of blankets and quilts:

- **Medium thermal blanket:** a blanket with 2.5 TOG is the minimum for outdoor use. Blankets with 2.5 TOG are also appropriate for indoor use without a heater. Medium thermal blankets are recommended for refugee camp situations in hot or mild cold climates / temperatures. It should be noted that even in hot countries, nights could be cold. Higher TOG values would be required for colder climates.
- **High thermal blanket:** a blanket with 4.0 TOG is the minimum for indoor use in cold climates.
- **Low thermal blanket:** a blanket with 1.5 TOG is considered a low thermal blanket, which is only appropriate for indoor use, on a bed, in a house with heating facilities. As a practical reference, a person resting indoor at 20 °C requires a total insulation of TOG 1.5. Low Thermal blankets are not included in UNHCR Frame Agreements, as they are not suitable for outdoor use.

Outdoor use of blankets: when considering outdoor use of blankets, where there is no wind, in a 10°C temperature, the TOG requirement for blanket is 4.0. At 0°C temperature, the TOG requirement is 6.0. At -10°C temperature, the TOG requirement is 8.0 and at -20°C temperature, the TOG requirement is 9.5. Taking into consideration that part of the insulation would come from the clothing; the rest should come from the blanket.

CRI Pallet Details

Fumigated as per IPSM 15 standard. Dimensions (L x W x H): 1150 x 770 x 144 mm. Maximum height of the packed pallet: 115 cm. Pallets should be shrink-wrapped and strapped. The palletized goods must not exceed the length and width of the pallet. For further information please refer to section IV Pallet Information.

Manufacturer Marking

Every blanket should include a tag, stitched in the hem, with the manufacturer identification (letters not higher than 2.5 cm). The tag should include the manufacturer's name, a unique reference batch number and the date of manufacturing. No company logo should be included with the manufacturer's marking.

Packing

High Thermal Synthetic Blankets are packed in bales of 15 pieces and the gross weight per bale should be between 22,5 and 38.25 kg approx. However different packing methods may be accepted in order to maximize loadability in pallets and containers.

Bale dimensions: 80 x 52 x 47 cm

Bale wrapping: bales to be wrapped in a water-tight micro perforated plastic film and covered with a polypropylene or jute woven bag. Compressed and strapped with 5 straps (2 lengthwise, 3 crosswise).

Bale compression: the height of the bales to be compressed by maximum 40% from free state to final compressed and strapped state. So, if the bale is 1 m high at free state, it should be compressed to a height of 0.6 m at final and strapped state.

Optimal Shipping / Container Information

2415 blankets per 20' DC container (without pallets).

5100 blankets per 40' DC container (without pallets).

5625 blankets per 40' HC container (without pallets).

1680 blankets per 20' DC container (with pallets).

3600 blankets per 40' DC container (with pallets).

3600 blankets per 40' HC container (with pallets).

Printing of UNHCR Logo

UNHCR visibility logo should be stitched as a label or inserted / printed / heat embossed on the blanket, placing the (long lasting) logo on the center of the blanket or in one corner. The size of the logo on the center of the blanket should be 40 cm wide and 48.88 cm high, and 20 cm wide and 24.44 cm high when placing the logo on a corner of the blanket.

The color of the logo should be white or blue, contrasting with the background of the blanket.

Typeface (Font), Colour specifications for printing:

Font: Helvetica Bold. Colour specification: Pantone Blue 300 or quadrichrome (CMYK). C = 100%, M = 45%, Y = 0%, K = 0%.

Weight and Volume

Gross weight per piece: 1.5 to 2.55 kg approx.

Gross weight per bale: 22.5 to 38.25 kg approx.

Gross volume per bale: 80 x 52 x 47 cm / 0.2 m³

Technical Specifications

Expected Life Span

It has a minimum life span of 2.5 years and a shelf life of 7 years.

Important Requirement Regarding Laboratory Testing Conditions:

Specification under the normal textile test conditioning ISO139, 65% moisture and 20°C for 24 h.

Samples for testing purpose:

Samples of blankets must be from compressed bales and all criteria to be passed on the same sample.

Samples of compressed bales to be prepared with 6 blankets folded once more than in normal bales, at 40% compression ratio, and to remain compressed for one week minimum before testing.

Denomination and norms	Required minimum values
1. Material	Synthetic blankets are made of virgin fibers from polyester or acrylic materials. Some cotton may be included in the yarns.
2. Make	Knitted or woven, dry raised both sides, homogeneous.
3. Content , ISO 1833 On dry weight.	100% virgin polyester and/or acrylic fibers or polyester/cotton.
4. Dimensions / Size	150 x 200 cm +3% / -1%. To be taken on flat stabilized sample, without folds.
5. Weight	500 to 850 g/m ² . Weight determined by total weight/total surface.
6. Thickness , ISO 5084	5 mm minimum (1 kPa on 2000mm ²)
7. Tensile strength , ISO13934-1	250 N warp and weft minimum.
8. Tensile strength loss after washing , ISO13934-1 and ISO 6330.	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
9. Shrinkage , maxi. ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
10. Weight loss after washing	Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying.
11. Thermal resistance , ISO 5085-1	TOG 4.0 (or 0.4 m ² .K/W) minimum, rounded to the nearest 0.1, passed on samples picked from compressed bales after 3 consecutive machine washing at 30°C and one flat drying.
12. Resistance to air flow , ISO9237 under 100 Pa pressure drop.	Maximum 1000 L/m ² /s.
13. Finish	Whipped seam at 10 mm from the edge with 10 to 13 stitches/10 cm or stitched ribbon or hemmed on 4 sides.
14. Organoleptic test	No bad smell, not irritating to the skin, no dust. 4<pH<9. Free from harmful VOC (Volatile Organic Components). Fit for human use.
15. Fire resistance , ISO12952-1&2	Resistance to cigarette - No ignition.
16. Fire resistance , ISO12952-3&4	Resistance to flame - No ignition.
17. Colors	Other than black, red, or white, dark uniform color (i.e. dark blue, grey or brown).



UNHCR

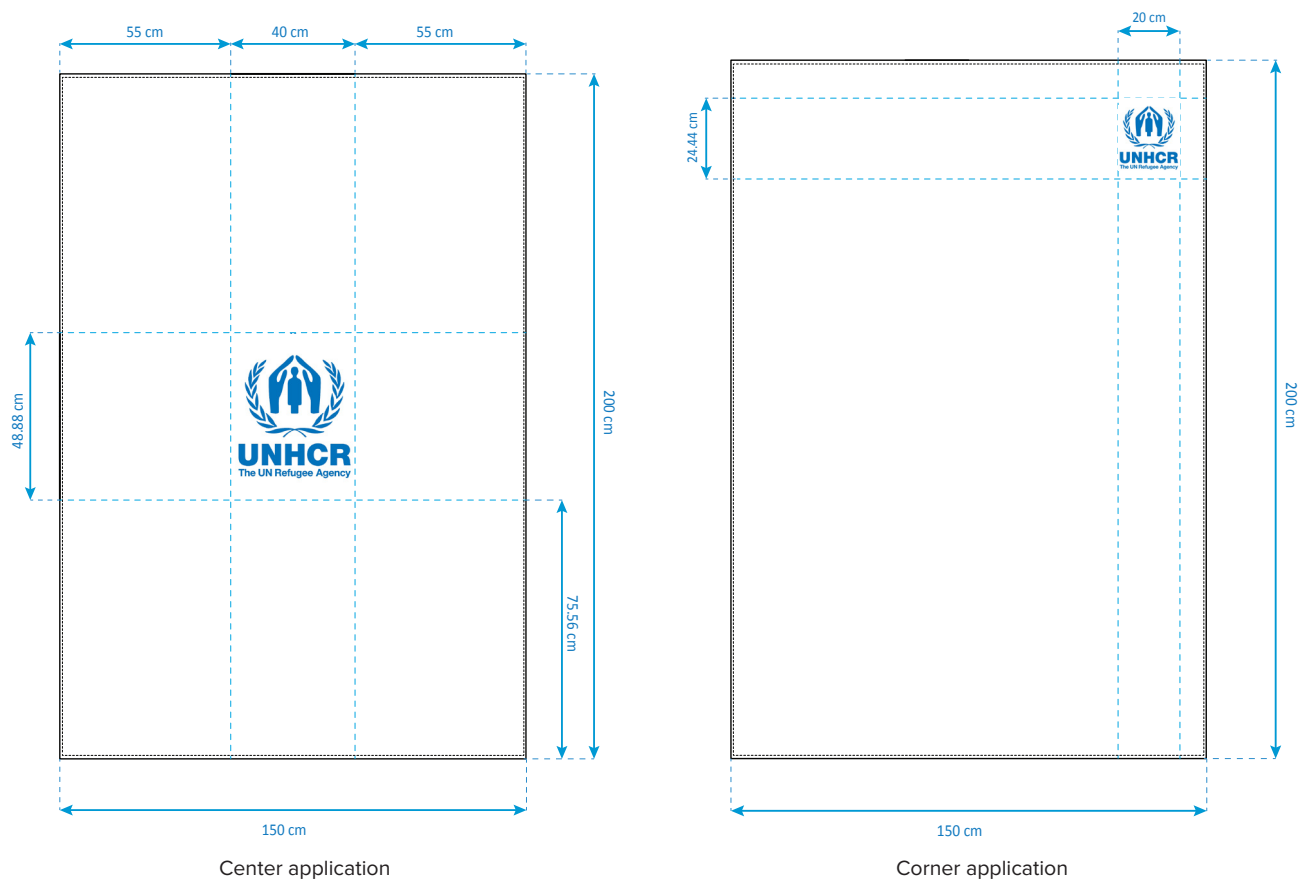
United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

BLANKET, SYNTHETIC (Fleece)

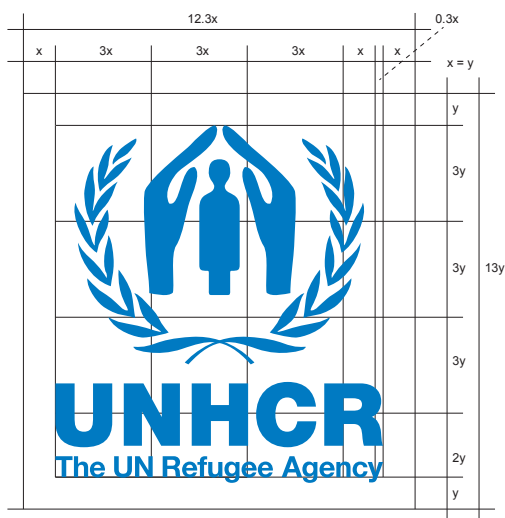
1.5 x 2 m, High Thermal

UNHCR Item No 05786

Graphic Reference



UNHCR Logo Application Reference



Item Application Sample



General Information and Description

The Family Tent has 16 m² main floor area, plus two 3.5 m² vestibules, for a total area of 23 m², double-fold with ground sheet.

It is the standard tent used by UNHCR/ICRC/IFRC and suitable for a family of 5 people, following the recommended minimum living area in hot and temperate climates (3.5 m² per person), and providing additional space for cold climates.

The technical specifications of this tent were developed by shelter specialists, with close technical cooperation between UNHCR, IFRC and ICRC, to guarantee a product fit for human use in all climates, with appropriate outdoor life span, at a minimum cost.

The technical specifications of this tent are generic, ensuring that the product can be manufactured by different suppliers in various countries, with the common technical know-how and standard equipment from the tent industry.

UNHCR purchases Family tents through international tender processes and establishes Frame Agreements (Long Term Agreements) with manufacturers that have completed validation / qualification of Family Tent samples in one of the UNHCR approved laboratories. Family Tents are subject to random and continuous quality control throughout the Frame Agreement duration period.

For the validation / qualification of Family Tent samples, it is advisable to first ensure the adherence to the main material specifications. Information about approved technical laboratories can be obtained from UNHCR Supply Management Service in Budapest.

According to its design, Family Tents should comply with all the technical requirements, criteria and parameters described in this document and as detailed in the technical specifications section.

Information for laboratory testing:

To complete validation / qualification of Family Tent samples, two (02) complete samples are to be sent to one of the UNHCR approved laboratories for testing and make up checking. One sample will be used for material testing and the second for a rain test. A product is acceptable only if all criteria are passed on the same sample.

Weight and Volume

Gross weight per unit: approx. 62 kg

Gross volume per unit: approx. 0.23 m³

Optimal Shipping / Container Information

140 tents per 20' GP without cage,
300 tents per 40' DC without cage.
350 tents per 40' HC without cage.

120 tents / 10 cages per 20' DC with cage (15 tents per cage).
240 tents / 20 cages per 40' DC with cage (15 tents per cage).
240 tents / 20 cages per 40' DC with cage (15 tents per cage).

Expected Life Span

Family Tents are designed as a short term shelter solution, particularly in support to emergency situations and is not a substitute for a more permanent shelter. It is expected that Family tents should have a life span of 1 year, minimum, maintaining its sheltering and waterproofing capacities in all types of climates.

Shelf-life: the tent has a shelf-life of minimum 5 years, under normal storage conditions, in dry, clean, and ventilated warehouses. It should be elevated from the ground, not piled, stored on pallets and pallet racks, not in containers or in tented warehouses. Tents are sensitive to rain and moisture when packed.

Packing

One tent with all accessories can be packed into a master bundle. The outer shell and the inner tent are folded in a way to ensure that the ground sheet protects the tent and accessories from dirt and moisture. The master bundle is made of woven polyethylene (PE) fabric of 180 g/m² identical to the one used on the mud flaps. The maximum total length must not exceed 2250 mm, with an approximate diameter of 300 mm in order to have extra space to facilitate repacking.

The metal poles and metal pegs are packed in 2 separate bags to avoid damaging other items inside the master bundle. Both of these bags are made of the same material as the master bundle. These bags have a closure system that ensures that the accessories will not fall out of the bag during transport and handling. Particular care should be taken when packing the pegs to assure they will not pierce the bag.

The master bundle is closed with 2 webbing straps on the outside, and each strap has a self-locking buckle that will not slide during transport. Each selflocking buckle can be made either with two rectangular buckles of 4 mm wire, welded-closed, or with one rectangular buckle and one sliding middle bar, of 4 mm steel rod, welded-closed. Each strap has 2 handles (PE or polyester). These straps are not sewn to the bundle.

Before placing the Family Tent into the master bundle, the tent must be protected with one additional layer made with a piece of polycotton canvas as per the wall canvas minimum, of 2.3 x 1 m. This canvas is attached around the bundle with 3 ropes of 1 m and 3 mm diameter.

The international standard warning sign "protect from water" should be printed on the outside of the package. The buyer's markings are printed on the outside in indelible ink.

Note: last updated, June 2014



UNHCR

United Nations High Commissioner for Refugees
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UNHCR FAMILY TENT

UNHCR Item No 05353

Optional Packing

To facilitate loading of Family Tents into pallets, size 120 x 80 x 15 cm, an optional package is required / accepted where poles are divided into pieces in order to obtain a package of 1.2 m in length.

The package must be a polycotton bag of 120 x 40 x 30 cm with a zip closure. The bundle must be secured with 2 webbing straps, each with a self-locking buckle that will not slide during transport. Each strap provides 2 handles. The straps must not be sewn to the bag. All other aspects as per standard packaging instructions. The palletized goods must not exceed the length and width of the pallet.

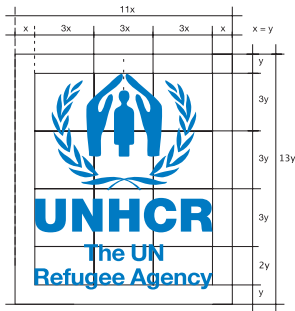
UNHCR Logo Application Reference

UNHCR vertical visibility logo on the roof of the tent:

The logo should be printed in blue indelible ink on both sides of the roof and in the middle for maximum visibility as showed on the graphic reference, when using 150 cm material and two seams on the canvas roof (L= 1.35 m and H= 1.65 m), following the "X" and "Y" proportionality rule to avoid distortion on the logo and letterings.

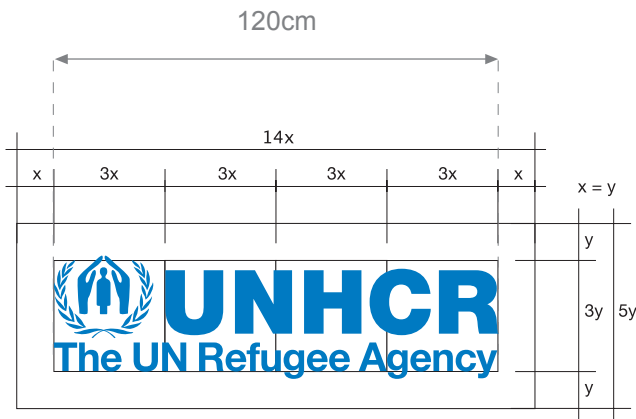
Rule: Length, L = (1 X = 15 cm), so (9 X = 1.35 m). Height, H = (1 Y = 15 cm), so (11 Y = 1.65 m).

Alternatively, the vertical visibility logos could be placed diagonally on opposite sides of the roof, when using 200 cm material and a central seam.



UNHCR horizontal visibility logo on both sides next to the tent's doors:

UNHCR horizontal visibility logo should be printed in blue indelible ink on both sides of the outer tent on both ends (2) of the tent next to the doors (L= 1.2 m and H = 0.35 m). The width of marking must be 120 cm and the height proportionate to the width without any distortion of the logo and letterings (approximately 35 cm).



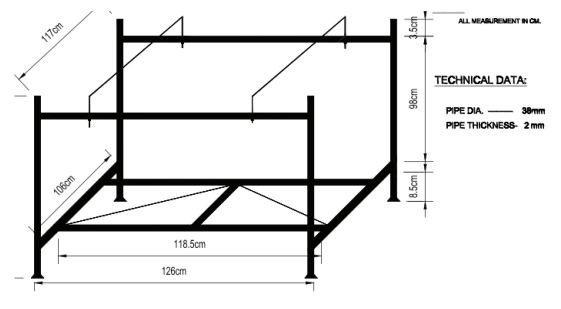
Typeface (Font), Colour specifications for printing:

Font: Helvetica Bold. Colour specification: Pantone Blue 300 or quadrichrome (CMYK). C = 100%, M = 45%, Y = 0%, K = 0%.

Metallic Cages

It is advisable to use stackable metal frame pallets. Such pallets avoid multiple manual handling of the bags and prevent the bags from being torn, and provides easy and fast on and off loading of containers, trucks, etc. Assures ventilation between the tents while stored in hot and humid climates which are required for long duration storage.

The metal cage pallet is stackable and adapted to optimize the container capacity.

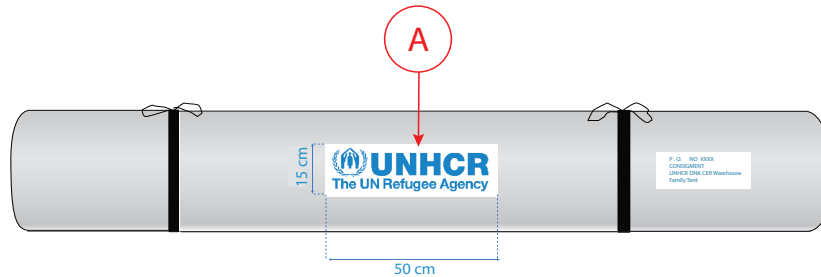


Repair Kit

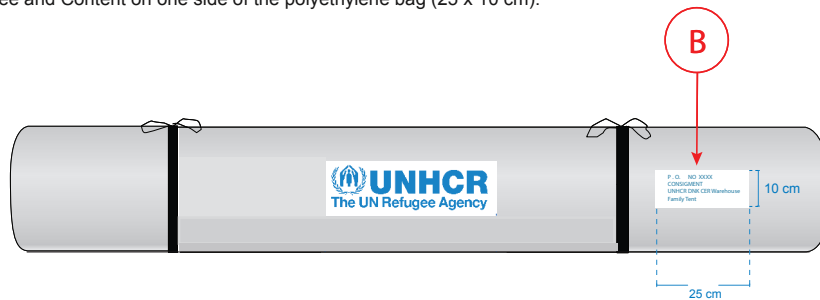
Should include 1 needle, 20 m stitching thread, 3 m polyester rope or string of 6 mm used to attach the canvas spare piece around the bundle as per information on packaging on page 1.

Markings on the Single Bag

Marking of UNHCR logo: (50 x 15 cm): Should be printed in blue indelible ink in color Pantone No PMS 300 C on one side of the single bag.



Shipping Marks: Should be printed in blue indelible ink in color Pantone No PMS 300 C including the Purchase Order Number, Purchase Order Quantity, Project Symbol, Consignee and Content on one side of the polyethylene bag (25 x 10 cm).



Manufacturer Marking

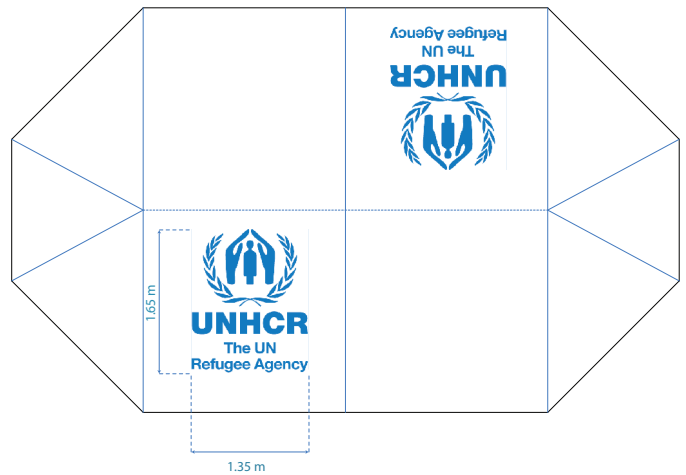
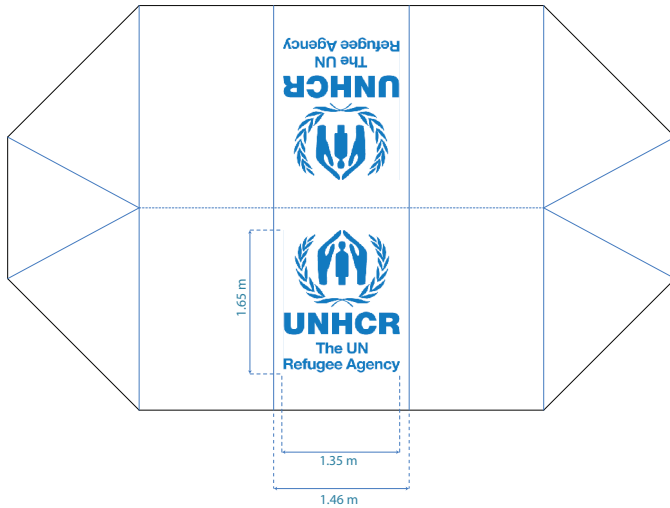
Every tent should include a tag, stitched inside the tent in one corner seam of one side wall, on the outer tent, 10 cm from the end of the wall, and 10 cm above the line where the canvas joins the PE flap, with the manufacturer identification (letters not higher than 2.5 cm). The tag should include the manufacturer's name, a unique reference batch number and the date of manufacturing. No company logo should be included with the manufacturer's marking.

Assembling Instruction and Content List

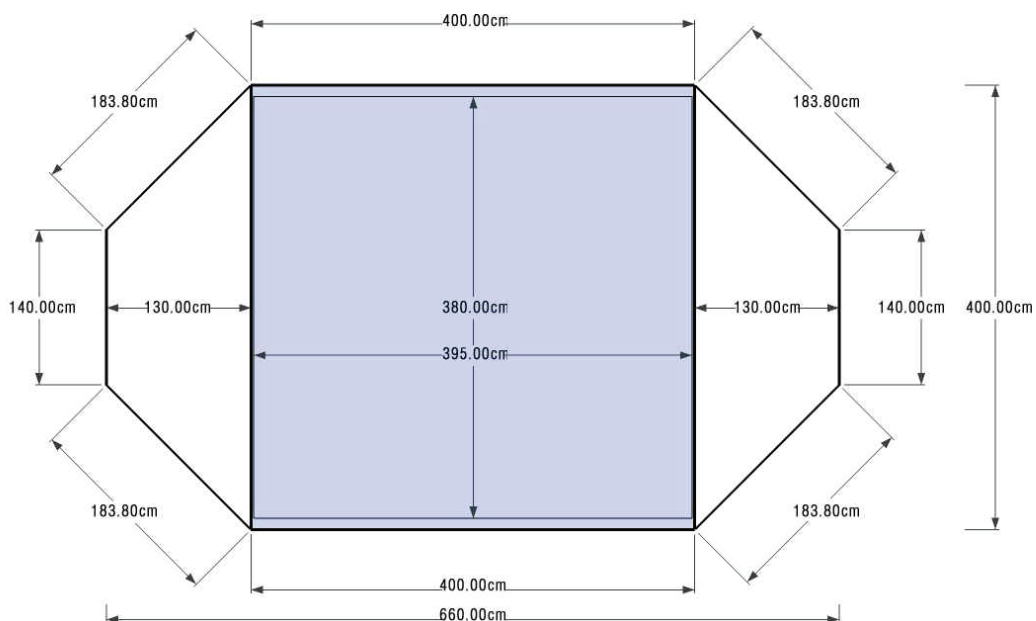
In the accessory bag, a content list and a set-up / assembling instructions sheet written in English is to be enclosed. The content list and the set-up / assembling instructions sheet have to be printed on durable laminated A4 paper or durable fabric, showing step-by-step, set-up information drawings / photos and tent set up instructions in color.

Graphic Reference

UNHCR vertical Logo on the roof of the Family Tent

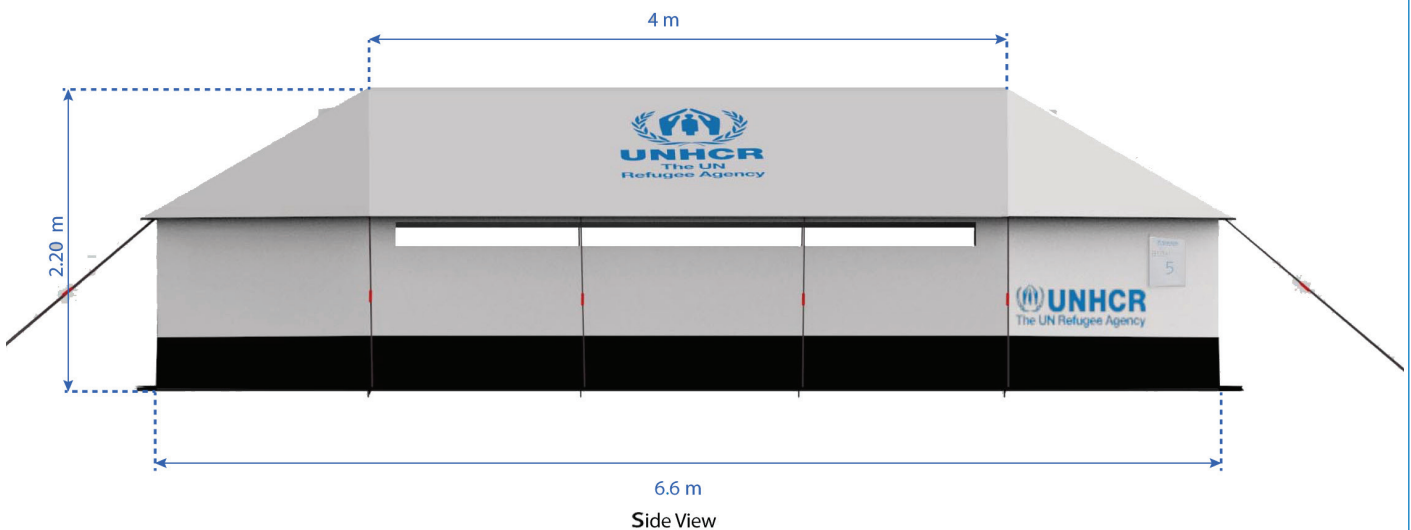
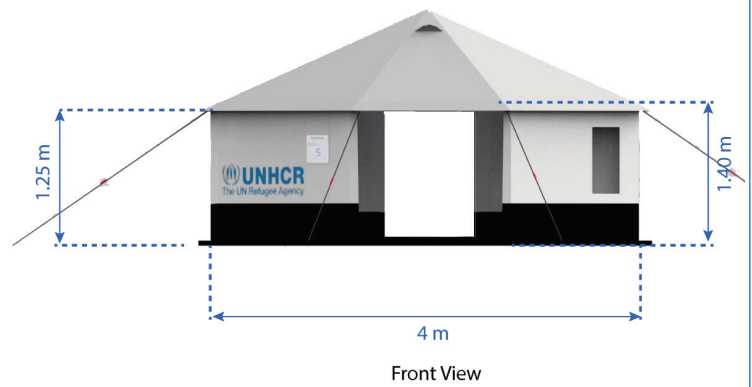
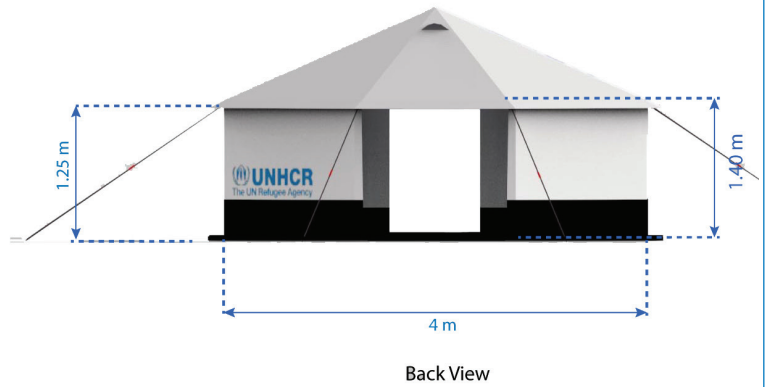
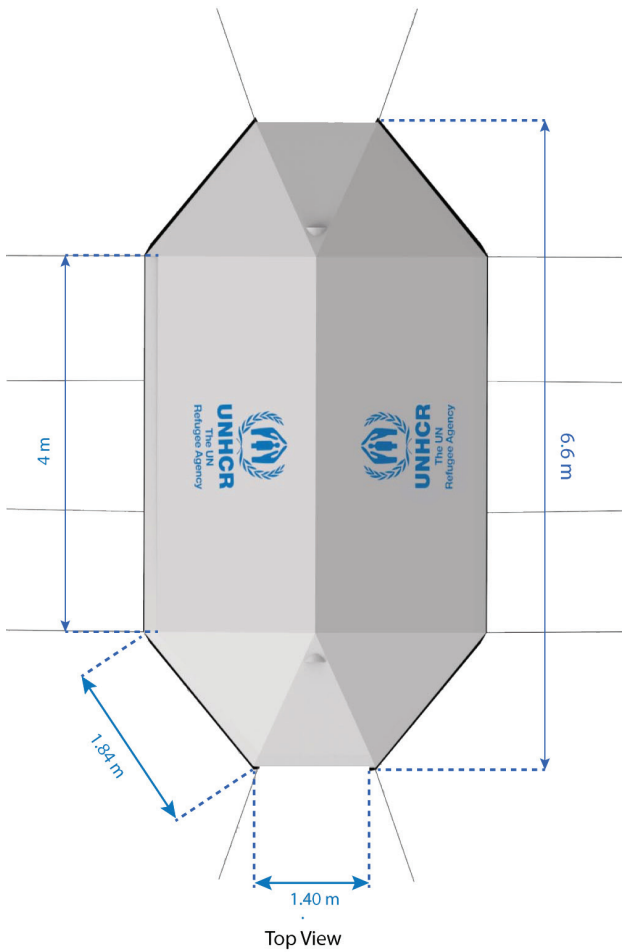


Family Tent General View



Top View

Graphic Reference



Technical Specifications

The specifications of the Family Tent are described below according to technical and performance requirements in five parts as follows:

1. Materials
2. General points for the finished product
3. Make-up of the outer tent
4. Make-up of the inner tent with ground sheet
5. Poles and accessories

1. MATERIALS

All canvas materials for the tent must be in accordance with the specified characteristics and with ISO 10966, if not specified otherwise hereunder.

Fire Retardant Field Testing Conditions Under EN 13823:	Temperature:	15 - 20 C
	Wind:	2 - 5 Knots
	Humidity:	60% TO 75%
	Weather Conditions:	Sunny Day or Partly Cloudy
	Rain:	0
	Dew Point:	10 - 15

1.1 SPECIFICATIONS FOR THE OUTER TENT ROOF CANVAS

Denomination and norms	Required minimum values
1. Composition , ISO 1833	Poly-Cotton: (Polyester/Cotton blended fibers yarns). Cotton: 40% (± 10), polyester: 60% (± 10) = Polyester: 50% to 70%, with balance in cotton.
2. Specific weight (g/m ²), ISO 3801	350 g/m ² $\pm 15\%$ in finished state.
3. Colour	Natural white, not dyed.
4. Water vapor permeability , ISO 17229	Minimum 2000 g/m ² /24h.
5. Tensile strength (N), ISO 13934-1 To apply on 10 test pieces of plain canvas. To apply on 5 test pieces with seams, cut from the tent, perpendicular to the seam.	Warp and Weft 850 N minimum. For plain canvas test: 5 test pieces in warp 5 test pieces in weft. On seams, the grab test is applied on 25 mm width in the 50 mm sample.
6. Tear resistance (N), Started, ISO 9073-4	Warp and Weft 60 N minimum.
7. Water penetration resistance , ISO 811 Test pieces of plain canvas.	30 hPa minimum, with increasing speed at 100 mm per minute.
8. Rain penetration resistance , ISO 5912 Test piece is the complete outer tent only.	Resistance to rain as per point 4.2.11 applying procedure as point 5.6 during 2 h on one end and 3 h on one side.
9. Dimensional variation , ISO 7771 When soaking in water.	Maximum 3%.
10. Resistance to micro-organisms On tensile strength under ISO 13934-1 after BS6085 (soil burial 28 days). To apply on 10 test pieces of plain canvas and 10 test pieces with seams.	Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. For each type of test: 5 test pieces in warp 5 test pieces in weft.

**UNHCR**United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés**UNHCR FAMILY TENT****UNHCR Item No 05353****Technical Specifications****1.1 SPECIFICATIONS FOR THE OUTER TENT ROOF CANVAS**

Denomination and norms	Required minimum values
11. Efficiency of water-repellent treatments after soaking in water Same test as point 7 on samples soaked in water in point 9.	30 hPa minimum, with increasing speed at 100 mm per minute.
12. Efficiency of fungicides product after soaking in water Same test as point 10 on samples soaked in water in point 9.	Maximum 10% of additional loss as compared with the result from point 10. For each type of test: 5 test pieces in warp 5 test pieces in weft.
13. Tensile strength After exposure to UV and moisturizing (climatic simulation). Exposure in a climatic chamber under ISO4892-2, type A, 360 hours, followed by tensile test under ISO13934-1.	Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. For each type of test: 3 test pieces in warp and 3 test pieces in weft.
14. Flame retardant under EN 13823 and CPAI84	Class B-s1-d0 of the EU regulation. Pass CPAI84 sections 5 and 6 with maximum 10s after flame average and maximum 30s after flame average and maximum 30s after flame per test piece. Ageing under IS) 4892-2, type A, 360 hours.

Technical Specifications

1.2 SPECIFICATIONS FOR THE OUTER TENT WALL CANVAS

Denomination and norms	Required minimum values
1. Composition , ISO 1833	Polyester/Cotton blended fibers yarns. Cotton: 40%(±10), polyester: 60% (±10) = Polyester: 50% to 70%, balance cotton.
2. Specific weight (g/m ²), ISO 3801	275 g/m ² ±10% in finished state.
3. Colour	Natural white, not dyed.
4. Water vapor permeability , ISO 17229	Minimum 2000 g/m ² /24h.
5.a. Tensile strength (N), ISO 13934-1 To apply on 10 test pieces of plain canvas. To apply on 5 test pieces with seams, cut from the tent, perpendicular to the seam.	Warp and Weft 650 N minimum. For plain canvas test: 5 test pieces in warp 5 test pieces in weft. On seams, the grab test is applied on 25 mm width in the 50 mm sample.
5.b. Tensile strength (N), ISO 13934-1 To apply on 10 test pieces of plain canvas and 10 test pieces with seams.	Warp and Weft 650 N minimum. For each type of test: 5 test pieces in warp 5 test pieces in weft.
6. Tear resistance (N), Started ISO 9073-4	Warp and Weft 40 N minimum.
7. Water penetration resistance , ISO 811 Test pieces of plain canvas.	20 hPa minimum, with increasing speed at 100 mm per minute.

Technical Specifications

1.2 SPECIFICATIONS FOR THE OUTER TENT WALL CANVAS

Denomination and norms	Required minimum values
8. Dimensional variation , ISO 7771 When soaking in water.	Maximum 3%.
9. Resistance to micro-organisms On tensile strength under ISO 13934-1 after BS6085 (soil burial 28 days). To apply on 10 test pieces of plain canvas and 10 test pieces with seams.	Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. For each type of test: 5 test pieces in warp, 5 test pieces in weft.
10. Efficiency of water-repellent treatments after soaking in water Same test as point 7 on samples soaked in water in point 8.	20 hPa minimum, with increasing speed at 100 mm per minute.
11. Efficiency of fungicides product after soaking in water Same test as point 9 on samples soaked in water in point 8.	Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. For each type of test: 5 test pieces in warp 5 test pieces in weft.
12. Tensile strength after exposure to UV and moisturizing (climatic simulation) Exposure in a climatic chamber under ISO 4892-2, type A, 360hours, followed by tensile test under ISO 13934-1.	Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. For each type of test: 3 test pieces in warp and 3 test pieces in weft.
13. Flame retardant under EN 13823 and CPAI84	Class B-s1-d0 of the EU regulation. Pass CPAI84 sections 5 and 6 with maximum 10s after flame average and maximum 30s after flame average and maximum 30s after flame per test piece. Ageing under IS) 4892-2, type A, 360 hours.

**UNHCR**United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés**UNHCR FAMILY TENT****UNHCR Item No 05353****Technical Specifications****1.3 SPECIFICATIONS FOR THE INNER TENT CANVAS**

Denomination and norms	Required minimum values
1. Composition , ISO1833	Polyester/Cotton blended fibers yarns. Cotton: 40%(±10), polyester: 60%(±10) = Polyester: 50% to 70%, balance cotton or Cotton 100%.
2. Specific weight (g/m ²), ISO 3801	165 g/m ² ±10% in finished state. If inner tent canvas has fire retardancy, component's weight is 170 g/m ² ±10%.
3. Colour	Dyed cream or beige color.
4. Water vapor permeability , ISO 17229	Minimum 2000 g/m ² /24h.
5. Tensile strength (N), ISO 13934-1	Warp and Weft 300 N minimum.
6. Tear resistance (N), ISO 9073-4	Warp and Weft 20 N minimum.
7. Resistance to micro-organisms on tensile strength Under ISO 13934-1 after BS6085 (soil burial - 14 days). To apply on 10 test pieces of plain canvas and 10 test pieces with seams.	Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. 5 test pieces in warp, 5 test pieces in weft.
8. Flame retardant under EN 13823	Class B-s1-d0 of the EU regulation, or above.

Technical Specifications

1.4 SPECIFICATIONS FOR THE PE FABRIC FOR THE MUD FLAPS

The specification of the standard UNHCR plastic sheeting can also apply with the fire retardancy as mentioned below.

Denomination and norms	Required minimum values
1. Composition	Woven high-density polyethylene black fibers fabric laminated on both sides with low density polyethylene coating. Alternatively Plastic Tarpaulin can be used.
2. Specific weight (g/m ²), ISO 3801	190 g/m ² ±30gr
3. a. Tensile strength (N), ISO 13934-1 To apply on 10 test pieces of plain PE fabric. To apply on 5 test pieces with seams, cut from the tent, perpendicularly to the seam, at the junction of PE and canvas.	Warp and Weft 650 N minimum. Elongation 15% to 25%. For plain PE fabric test: 5 test pieces in warp 5 test pieces in weft. On seams, the grab test is applied on 25 mm width in the 50 mm sample.
3.b. Tensile strength (N), ISO 1421 To apply on 10 test pieces of plain canvas and 10 test pieces with seams of one side wall canvas and one side PE mud flap.	Warp 650 N minimum weft 650 N minimum for each type of test: 5 test pieces in warp 5 test pieces in weft.
4. Tear resistance (N), ISO 4674 (A2)	100 N minimum warp and 100 N minimum weft.
5. Resistance to micro-organisms	Insensitive to micro-organisms. Not to be tested.
6. Resistance to UV In percentage of tensile strength loss under ISO 1421 after 1500 hours UV under ASTM G53/94 (UVB 313 nm peak).	Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. 5 test pieces in weft, and 5 in warp.
7. Colour	White if made with IFRC/ICRC/UNHCR standard plastic sheeting.
8. Flame retardant under EN 13823 and CPAI84	Class B-s1-d0 of the EU regulation. Pass CPAI84 sections 5 and 6 with maximum 10s after flame average and maximum 30s after flame per test piece. Ageing under ISO 4892-2, type A, 360 hours.

**UNHCR**United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés**UNHCR FAMILY TENT****UNHCR Item No 05353****Technical Specifications****1.5 SPECIFICATIONS FOR THE PE FABRIC FOR THE GROUND SHEET**

The specification of the standard UNHCR plastic sheeting can also apply with the fire retardancy as mentioned below.

Denomination and norms	Required minimum values
1. Composition	Woven polyethylene fabric coated on both sides with low density polyethylene. Alternatively Plastic Tarpaulin can be used.
2. Specific weight (g/m ²), ISO 3801	190 g/m ² ± 30 grams.
3. Tensile strength (N), ISO 1421	Warp 300 N minimum weft 300 N minimum.
4. Tear resistance (N), ISO 4674 (A2)	Warp 60 N minimum weft 60 N minimum.
5. Resistance to micro-organisms	Insensitive to micro-organisms.

**UNHCR**United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés**UNHCR FAMILY TENT****UNHCR Item No 05353****Technical Specifications****1.5 SPECIFICATIONS FOR THE PE FABRIC FOR THE GROUND SHEET**

The specification of the standard UNHCR plastic sheeting can also apply with the fire retardancy as mentioned below.

Denomination and norms	Required minimum values
6. Water penetration resistance , ISO 811 Test pieces of plain canvas.	20 hPa minimum.
7. Resistance to UV In percentage of tensile strength loss under ISO 1421 after 300 hours UV under ASTM G53/94 (UVB 313 nm peak).	Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. 5 test pieces in weft 5 test pieces in warp.
8. Colour	White if made with UNHCR standard plastic sheeting.
9. Flame retardant under EN 13823 and CPAI84	Class B-s1-d0 of the EU regulation. Pass CPAI84 sections 5 and 6 with maximum 10s after flame average and maximum 30s after flame per test piece. Ageing under ISO 4892-2, type A, 360 hours.

Technical Specifications

1.6 SPECIFICATIONS FOR THE MOSQUITO NET FOR DOORS, WINDOWS, VENTILATION OPENINGS, INNER AND OUTER TENTS

All mosquito nets must be treated with long lasting insecticide in accordance to WHO standards and purchased from / manufactured by a fully qualified WHOPES approved mosquito net manufacturer.

Denomination and norms	Required minimum values
1. Material , ISO 1833	Polyester 100%, or PE 100%.
2. Fabric , ISO 8388	Warp knitted.
3. Denier	75/100 for the polyester and 100 to 150 for the PE.
4. Filament	Multi-filament 36 or higher for the polyester and Monofilament for the PE.
5. Mesh size	25 holes/cm ² (156 holes/inch ²)
6. Weight , ISO 3801	85 to 100 g/m ² for polyester and Min 38 g/m ² for PE depending of denier.
7. Shrinkage , ISO 5077	5% maximum.
8. Bursting strength , ISO 1393-8	250 kPa minimum for polyester and 320 kPa minimum for PE.
9. Bursting strength after exposure to UV and moisturizing (climatic simulation) , ISO 1393-8 Exposure in a climatic chamber under ISO 4892-2, type A, 360 hours, followed by bursting test under ISO 13938	30% maximum strength-loss on minimum required value and 50% maximum strength-loss on original value of the same product. Number of test pieces: 3 test pieces.
10. Colour	White.

Technical Specifications

1.7 SPECIFICATIONS FOR THE GUYING POINTS OF THE OUTER TENT

Denomination and norms	Required minimum values
1. Material composition	Polyethylene/Polypropylene/Polyester ropes. Polyester straps. Steel rings. Elastic device.
2. Tensile strength (N) , ISO 13934 On samples taking the complete guying point assembly including the entire reinforcement pieces. See note here under.	3000 N minimum for the 6 side points (3 test pieces). 1400 N minimum for the 4 other points (2 test pieces). Elongation of the elastic device under 1000 N: minimum 50 mm, maximum 100 mm.
3. Resistance to UV In percentage of tensile strength loss after exposure in a climatic chamber under ISO 4892-2, type A, 360 hours.	Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. 1 test piece at 1400 N 1 test piece at 3000 N.
4. Colour	Black ropes and straps. Galvanized steel.

Note for point N°2:

Sample size: W 300 x L 500 mm. Sample to be cut at the centre guy line for the side point (500 mm length is with eave included). Samples to be cut on the top corner of the outer doors for the other points.

Samples to be folded in order to fit into the traction apparatus with the entire width of the canvas being submitted to the traction when clamped in the apparatus jaw. The sample must include: the tent roof canvas, the reinforcement of the canvas, the strap, the ring, the elastic device, the buckle, the runner and a sufficient part of the guy rope (the ring and the runner do not need to be included in the UV test).

The traction must be applied between the tent roof canvas and the guy rope.

1.8 SPECIFICATIONS FOR THE HAMMER

Denomination and norms	Required minimum values
1. Type	Sledge hammer, 1 kg head, with 30 cm wooden handle. In accordance with ISO15601 and below specification.
2. Handle	No chip, rough surface, holes, knots. Smooth surface. Dry and strong flexible wood. Handle adjusted to head in order to protrude on other side of the head, and be blocked with a metal wedge or be a conical shape (like hoes). Moisture minimum 10%, maximum 15%, under ISO3130.
3. Pull apart test	After two series of 25 vigorous blows with varying delivery angle, apply traction of 500 N trying to pull out the handle, head being fixed in a jaw, this should not create any damage to the hammer head and the handle, and the handle should remain firmly attached to the head.

Technical Specifications

2. GENERAL POINTS FOR THE FINISHED PRODUCT**2.1 Performances:**

The final product must be able to withstand 75 km/h wind, to be strongly attached to the ground and tensioned without any damages.

When closed, the tent must give a good protection against dust, wind, rain, snow, insects and small crawling fauna.

Minimum roof load to be 300 N/m² under ISO8937 (snow load for camping tent).

The recommended final packed tent weight is approximately 62 kg.

2.2 Seams and stitching:

All seams subject to possible tension are double-lock stitched and water-proofed. Stitching should produce strong, long lasting, neat and professional looking seams.

The stitch count as well as UV and rot-proof sewing threads are appropriate and adapted to each fabric. It allows for strong waterproof seams with at least the same life span as the tent.

The seams are always oriented in order to let the rain run freely, to avoid retaining water lines or water pockets. Wherever possible, the colour of the sewing thread is adapted to the fabric color.

Note: Gluing or any other methods that do not ensure the overall performance of the Tent are not accepted on stitching.

2.3 Ropes, webbing bands, toggles, loops, reinforcement nettings, and all other accessories:

All ropes and webbing bands are heat cut. All ropes are knotted to the tent from the factory. All above mentioned items are rot-proof and UV-proof at least as much as the tent canvas which they are sewn to. No webbing or rope is sewn through a stitch going from outside the tent to inside the tent to avoid water penetration by capillarity, or are made of waterproof materials. Laces or loops can also be made of the same canvas as the tent roof/wall for the outer tent loops, and of the same canvas they are sewn to for the inner tent loops.

2.4 Zipper fasteners:

All the zipper fasteners should conform to a resistance of 700 N lateral traction under ISO5912.

2.5 Eyelets:

All metal eyelets should be rustproof and correctly placed, reinforced with a fabric patch and of a minimum 10 mm inner diameter.

2.6 Metal rings:

All metal rings should be rustproof galvanized and closed by welding.

2.7 Dimensional tolerance:

Unless otherwise specified, a tolerance of maximum $\pm 3\%$ is accepted on all dimensions.

2.8 Long storage (shelf life):

The tent is treated and packed in such a way that it can be stored up to minimum of 5 years in proper storage conditions without any damage or performance reduction. The tent should be stored elevated from the ground (on pallets and pallet racks) in a dry, clean and ventilated warehouse.

The tent must be manufactured and packed in clean and appropriate conditions to avoid contamination from soil dust and other contaminants.

Technical Specifications

3. MAKE-UP OF OUTER TENT

3.1 General description of outer tent:

The outer tent is made of several cloth sections which form the general shape of the tent. The seams run from the ridge down to the roof edges, perpendicular to the ridge line. The outer tent is supported by 3 upright poles +1 ridge beam, 6 side poles and 4 door poles, 3 guy ropes on each side and 2 guy ropes at each end. The attachment points of each guy rope are reinforced.

3.2 Dimensions / erecting system:

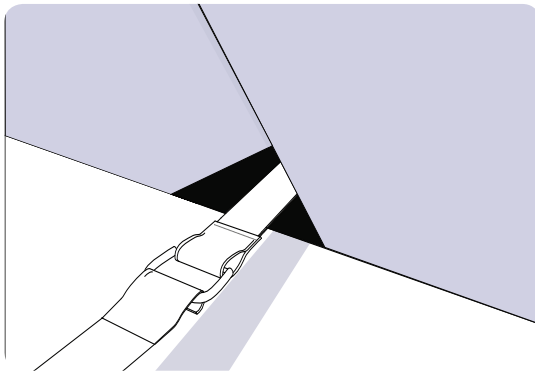
Centre height:	2.2 m
Width:	4 m
Ridge length:	4 m
Side wall height:	1.25 m
Door height:	1.4 m
Centre base length:	6.6 m

The outer tent is placed over the ridge beam which is held by 3 upright poles, one at each end of ridge beam, and one at the centre of the ridge beam. The outer tent is maintained in position on the ridge pipe with 2 canvas sleeves of 100 mm long, closed by Velcro on full 100 mm length, one sleeve at each end of the ridge, at 200 mm from the end.

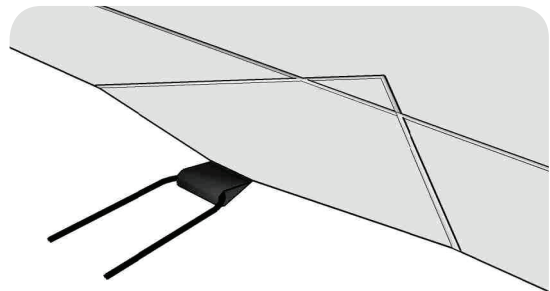
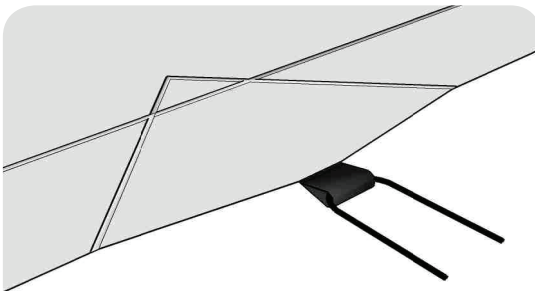
The side walls are held by 6 side poles with a metal hook on top to hook into the eyelet of the webbing band (25 mm wide) placed on the inside of the wall top. Side wall poles do not protrude through the outer tent. The hook at the top of the side poles to be as flat as possible.

3.3 Reinforcements:

The 10 roof guying points are made of 50 mm wide polyester straps, sewn to the eave in extension of the roof. The eave is made with a double fold of the roof canvas, of 200 mm width, running all around the tent roof, including above the doors. The eave is part of the roof panel, without interruption of the canvas. On the 6 side guying points an additional layer of PVC coated canvas is added on the inside to protect against abrasion from the top of the pole.



In addition, the 6 side guy points have a second triangular piece of canvas of 300 mm side length sewn to the roof, from the edge of the eave.



Technical Specifications

3. MAKE-UP OF OUTER TENT

3.4 Attachment system (guy lines):

The outer tent is anchored to the ground using 10 guy lines which are attached to 10 metal pegs.

Each guying point on both sides presents a loop made of 50 mm wide webbing. The length of the webbing allows, when folded double, the creation of a minimum 30 mm long loop, to be stitched to the tent with a strong Z or X sewing on minimum 50 mm long.

The webbing loops are placed perpendicular to the tent edge on the sides, at 30° angle in the corners, and in the alignment of the vestibules roof shape at both ends.

10 metal rings are attached to the loops with an elastic device. The ropes pass into the 10 metal rings. When tensioning, the ropes slide in the metal rings. At the other end, the ropes have a fixed knotted loop to place over the peg.

The attachment points are made in such a way that they comply with resistance specified in chapter 1.7.

3.5 Side windows:



Internal View

The outer tent has 2 long windows with mosquito netting and a rain flap running on both sides of the tent. The inside dimensions of the windows are 3600 mm wide and 600 mm high and the top edge of the window is placed 100 mm below the roof of the tent. The window openings are reinforced either with strong reinforcement netting (large holes strong plastic net) or with standard netting and strips of 20 mm poly-cotton webbing that reinforce the window horizontally (1 webbing) and vertically (7 webbings). These webbings are sewn to the edges of the tent opening and to the mosquito netting. The window flap is 3960 mm wide x 400 mm high. The flap is stitched 50 mm above the top of the window. The flap is held by 25 mm Velcro webbing which is placed along the length of the vertical sides and bottom and at a 25 mm distance from the window opening. Loops and plastic toggles or hooks are used to keep the flap open when it is rolled up.

3.6 Ventilation 1/2 cones on top of the vestibules:



External View

Internal View

The outer tent has 2 ventilation openings in front and back with reinforcement netting and a rain flap. These vents are triangular and are placed at the top of both vestibules. The inside dimensions of the vents are 250 mm wide and 300 mm high. The vent flaps are made in such a way that they are distanced from the ventilation opening when open, making a V2 cone shape of 250 mm in its middle. The flap can be closed with a 25 mm Velcro attached to the full width.

The vent openings are reinforced either with strong reinforcement netting (large holes strong plastic net), or with standard netting and with two strips of 20 mm cotton or polyester webbing that bisects the vent horizontally and vertically. These webbings are sewn to the edges of the vent opening and to the netting.

Technical Specifications

3. MAKE-UP OF OUTER TENT

3.7 Outer tent doors:

Door size: W 1.3 x H 1.4 m.

Door flap size: W 1.4 x H 1.6 m:

- Upper part: W 1.4 x H 0.9 m, made of canvas.
- Lower part: W 1.4 x H 0.7 m, made of woven PE fabric.

The vestibule doors can be used as awnings by moving the front door poles to the 2 eyelets placed at the bottom of the door, in the corners. The rolled up door is held up by 2 loops and 2 plastic toggles or hooks.

The doors can be closed by means of a lacing/loop system. The loops are made of 4 mm rope or canvas strips (7 loops and eyelets per door side). For each lace/loop system, a toggle or a hook is placed in order to attach the last loop.

The lacing/loop system is protected by a double 50 mm flap to prevent rain and drafts. Each door has one side closable from inside and the other side closable from outside.



3.8 Side walls, vestibule walls, mud flaps:

Total height is 1.45 m corresponding to 1.25 m vertical plus 0.2 m on the ground.

The upper part (0.75 m) of the walls is made of Polyester Cotton fabric, lower part (0.7 m) of PE fabric. The mud flaps are equipped with 22 eyelets (7 on each side including corners, 2 on each vestibule side), placed on a line reinforced with a full length 50 mm webbing sewn or heat-sealed to the mud flap at floor level, on the inside. Stitch length and thread to be appropriate for the materials to prevent tearing of the mud flap along the stitching (not applicable if heat-sealed).

The outer tent is attached to the side poles, with webbings or canvas strings stitched on the inner side of the outer tent, where the PE joins the poly-cotton, in front of each side pole and door pole (10 points in total).



Technical Specifications

3. MAKE-UP OF OUTER TENT



The vestibule walls are made in the same way, to complete the outer tent between the doors and the side walls. One of the vestibule carries the chimney hole.

3.9 Chimney reinforcement:

A chimney reinforcement with a non-perforated opening is placed at 0.5 m from one corner, on one end of the tent, between the corner of one side wall and the corner of one tent door. This is made of heat resistant fabric (minimum 900°C). It is the type of fabric that keeps the fibers tight when cut.

The lower edge of the opening is 500 mm above the ground, where the canvas joins the PE part (a band of canvas of 2 to 3 cm is allowed between the PE and the fireproof material).

Inside dimensions: 250 mm x 650 mm

The chimney flap is 350 mm wide x 750 mm high. The flap is stitched at the bottom at the lower edge of the chimney opening. The flap is held by 25 mm Velcro webbing which is placed along the entire vertical sides and upper end at a 25 mm distance from the chimney opening.

The tent fabric is cut away completely at the position of the chimney opening. The edges of the Chimney opening are hemmed stitched to the inside.



External View



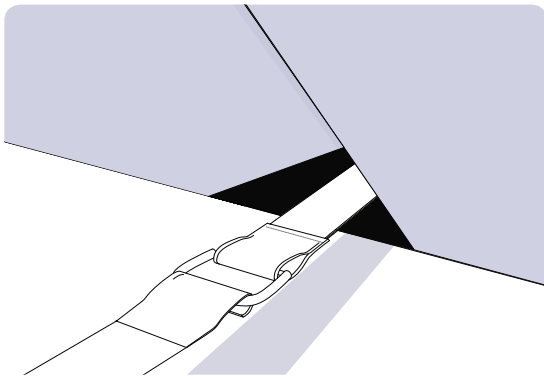
Internal View

Technical Specifications

3. MAKE-UP OF OUTER TENT

3.10 other accessories:

4 loops of 30 mm each are placed on the inside of the tent in places where inner tent doors have corresponding toggles, at the top of the inner tent door zips (see inner tent door description). 10 D-rings (25 x 4 mm thickness), inside the outer tent, to allow the inner tent to be hooked to these D-rings (see inner tent description point 4/4): 6 are placed in the webbings at the top of each side-pole's position, 4 are placed in intermediate position.



6 D-rings placed on 25 mm webbing are sewn at floor level to the mud flap, inside, to hook the inner tent attachment strings.

3.11 Plastic for document pouch:

On the outside of each left hand vestibule wall there will be a clear plastic document sleeve. The material will be UV stabilized polyurethane transparent plastic with a minimum thickness of 0.15 mm. The lower edge of the sleeve will be 800 mm above the ground. The sleeve will have an opening on the left side with the other three sides sewn with two rows of stitching to the tent. The inside dimensions of the sleeve after sewing will be 230 mm high and 310 mm wide.



Technical Specifications

4. MAKE-UP OF INNER TENT WITH GROUND SHEET

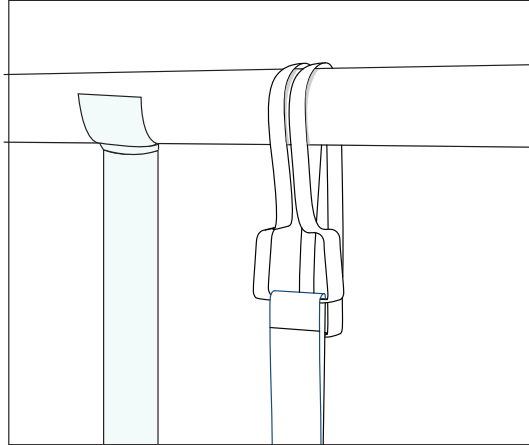
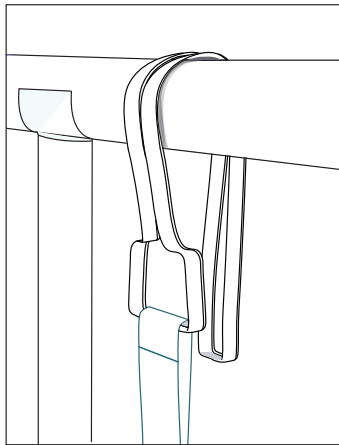
4.1 General description:

The inner tent is square shaped and is hanging inside the outer tent structure. All dimensions are meant to allow a 10 cm air gap between the outer tent and the inner tent.

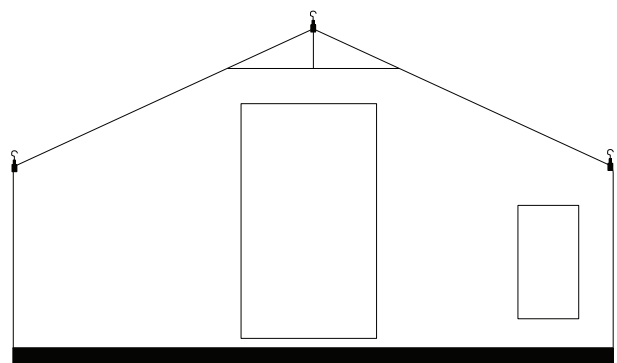
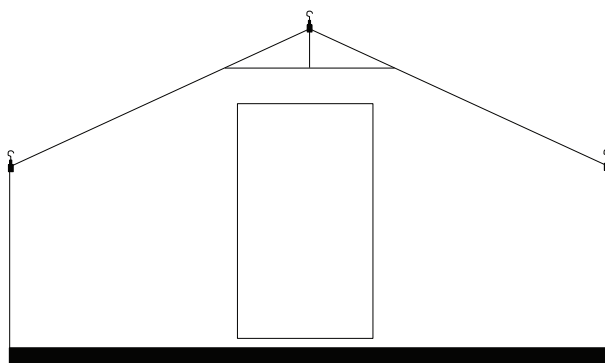
At the ground sheet level it is hooked to the outer tent D-rings with 6 elastic webbings and plastic hooks of 20 mm width.

The inner tent shall be partitioned with the same material in the middle dividing the tent into two equal segments in shorter transverse direction.

The inner tent has a chimney reinforcement, 2 windows, 2 doors and 2 vents. The bath tub ground sheet (floor) is made of woven PE fabric sewn to the inner tent and extends up the sides of the wall to assure that the inside remains waterproof. No stitching is allowed at the lower part of the groundsheet to assure 100% waterproofing.



Ridge



Inner Tent Front

Inner Tent Rear

Technical Specifications**4. MAKE-UP OF INNER TENT WITH GROUND SHEET****4.2 Inner tent dimensions:**

The inner tent, when hooked to the outer tent has a center height of 2.1 m, a width of 3.8 m, a wall height of 1.15 m and a base length of 3.95 m.

4.3 Inner doors:

Each door opening is 1 m wide and 1.75 m high from the floor (1.55 m measured from the upper edge of the ground sheet).

The door panels (1.1 m wide) are placed in the center of the front and rear walls.

The doors are made of the same material as the tent and closed with polyester n°10 coil zipper fasteners at the 2 vertical sides. The zipper fasteners can be opened from inside and outside.

The doors have a 200 mm PE flap at the bottom, made of same material as the ground sheet.

Black UV stabilized ropes or canvas laces with plastic toggles or hooks are used to keep the door opened when rolled up.

Mosquito nets (1.1 m wide) are placed on the inside of the doors. The 2 vertical sides are closed with n°10 polyester coil zipper fasteners.

The bottom edge of the mosquito flap closes with one piece of 25 mm Velcro along the entire width.

To facilitate the door closing:

- 2 elastic webbing loops of 80 mm with toggles or hooks are placed at the top of each door side aligned with the zippers. They attach to the corresponding 3 cm loops available inside the outer tent.

- 2 webbing loops with eyelets are placed at the bottom of each door side aligned with the zippers. They are used to attach the tent to the ground with pegs of 6 x 230 mm. The webbing loops are stitched into the seam where the PE joins the fabric, and are 200 mm long.



Technical Specifications

4. MAKE-UP OF INNER TENT WITH GROUND SHEET

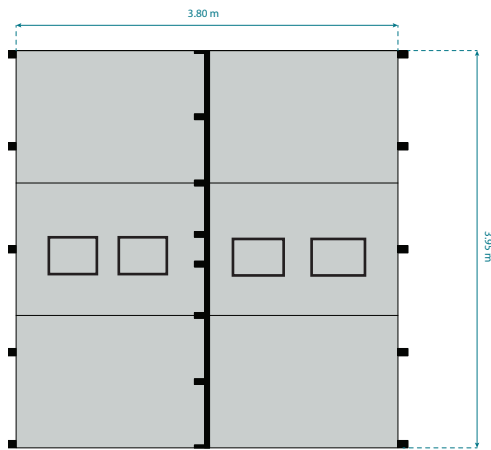
4.4 Inner tent suspension system:

The inner tent is placed between the 2 end upright poles. It is attached (knotted) to these poles by 2 strings or strips of 25 mm by 200 mm long at each end.

The inner tent is suspended from the ridge pipe with 8 galvanized 4 mm wire hooks mounted on 8 webbing loops of 50 mm wide. The total length of the loops including the metal hook is 100 mm. One at each end, two in the centre at 100 mm from the centre pole gap, and the 4 others equally spaced each side. The side walls of the inner tent are hooked with strong plastic or metal hooks mounted on webbing loops to the corresponding D-rings of the outer tent inside, at the top of each side pole and in the intermediate positions. The loops are made of non elastic 25 mm wide webbing bands and the finished length including the hook is 100 mm. 5 hooks in total per side.

The elastic webbing bands for the bottom of the walls are stitched to the tent in the seam where the PE and fabric are joined.

The inner tent has 32 loops of 20 mm, made of canvas, for the attachment of the optional inner lining or the optional inner partition. The loops are placed in the inside of the inner tent at every place where the inner tent is attached to the outer tent or to the frame, plus 2 loops at the bottom of each door where the webbings for the ground attachment are placed (8 at the ridge, 5 at the top of each side wall, 3 at the bottom of each side wall, 2 at the base of each door).



4.5 Inner tent ventilation system:

The inner tent has 2 triangular vents at each gable top, made of mosquito net and reinforced with 20 mm webbings. The size of the triangle is 750 x 300 mm (all space from the ridge to the top of each door).

The ventilation system can be closed with a flap opening downwards, and sealed with 25 mm Velcro on all sides.

4.6 Inner tent windows:



The inner tent has 2 windows of same size and same reinforcement, corresponding to the outer tent windows. The flap made of same material as the inner tent is placed inside and opens downwards. It closes with 25 mm Velcro on all sides, and hangs freely when open.

4.7 Accessories inside the inner tent:

To hang light weight properties, 3 hooks of 20 mm mounted on webbing and 1 pouch of 150 x 200 mm made of netting material sewn on 3 sides are sewn inside the inner tent at the ridge. The pouch hangs from the ridge at the place of the 2nd ridge hook; the 3 hooks are placed at the level of the 3rd, 6th and 7th ridge hooks.

Technical Specifications

4. MAKE-UP OF INNER TENT WITH GROUND SHEET

4.8 Ground sheet:

The integrated ground sheet is made of PE woven fabric. The seam that attaches the ground sheet to the sides of the inner tent is 200 mm above the floor. To avoid water infiltration, no stitching seams are allowed in the groundsheet. All seams to be welded by heat sealing and have a 25 mm overlap. A reinforcement patch of 150 x 150 mm of the same material in the centre of the groundsheet to be glued or sealed, to avoid the centre pole damaging the groundsheet.

4.9 Chimney reinforcement:

A chimney reinforcement with non-perforated opening is placed at 0.5 m from one corner, on one end of the tent, between the corner of one side wall and the corner of one tent door. This is made of heat resistant fabric (minimum 900°C).

Inside dimensions: W 250 x H 800 mm.

The lower edge of the opening is 300 mm above the ground.

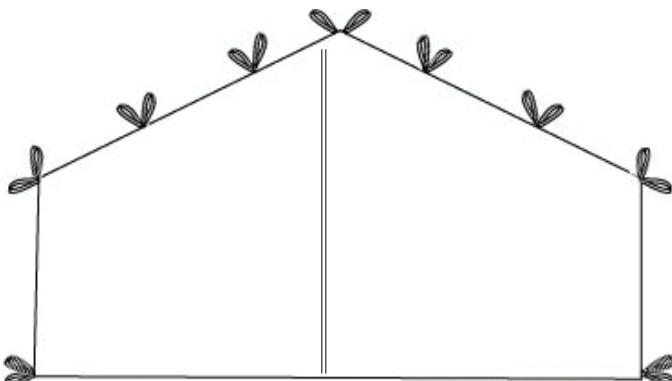
The tent fabric is to be cut away completely at the position of the chimney opening. The edges of the opening are hemmed stitched.



4.10 Inner partition:

One partition running from either side of the centre pole to the side walls, constructed from 2 half-partitions, stitched together at the top. The partition is attached to the loops on the inner tent at the roof and wall levels with 10 pairs of string, and to the centre pole with 2 pairs of string.

The partition can be maintained open with 2 additional pair of string.



Technical Specifications**5. POLES AND ACCESSORIES****5.1 Poles:**

Each section should be fitted together by a male / female joint of 100 mm made with an inserted pipe point-welded or crimped into one of the pipes (not to be made with press-reduced pipe diameter).

- Ridge beam:

4 m long, with minimum outer diameter of 30 mm galvanized or painted steel pipe, minimum 1.2 mm wall thickness, in 2 pieces or 4 pieces depending on type of packaging.

The ends of the ridge beam to be reinforced with 2 short pipes of 27.5 mm outer diameter and of 100 mm length, inserted and point welded at both ends of the ridge.

22.5 mm holes drilled at 20 mm from both ends for upright poles to fit in.

The ends of the ridge beam to be protected with a non-sharp, non-cutting plastic cap.

- Upright poles:

2 upright poles of 2200 mm each (end plug included), with minimum outer diameter of 25 mm, galvanized or painted steel pipe of minimum 1.2 mm wall thickness, comes in one piece or in two pieces depending of the type of packaging. These 2 poles have a narrowed diameter of 21.5 mm by 40 mm long at the top end (end plug included), to insert into the ridge. The top end of these 2 poles to have a plastic bushing protruding in order to protect from the edges of the pipe.

1 central upright pole of 2170 mm each (size without U-bracket), with minimum outer diameter of 30 mm galvanized or painted steel pipe of minimum 1.2 mm wall thickness, comes in one piece or in two pieces depending on the type of packaging. This pole comes with a U-shaped metal bracket of 30 mm length.

The base of the 2 upright poles must have a round metal or plastic base-plate of 50 mm diameter.

The base of the central pole must have a soft flexible plastic or rubber base plate of minimum 50 mm diameter that will protect and avoid damage to the ground sheet while keeping proper stability.

- Side poles:

6 side poles of 1.25 m with minimum outer diameter of 19 mm painted or galvanized steel pipes of minimum 1 mm wall thickness, in one piece or in two pieces depending of the type of packaging. Each pole comes with a bended 20 to 30 mm pin on top in form of a flat hook.

4 door poles of 1.4 m with minimum outer diameter of 19 mm painted or galvanized steel pipes of minimum 1 mm wall thickness, in one piece or in two pieces depending on the type of packaging.

The 4 door poles come with a 50 mm pin at the top. The top of each pole must have a bend 20 to 30 mm pin form into a flat hook.

Side poles and door poles base plates are made with a round piece of plastic of 40 mm diameter, with a pin of 20 to 30 mm length pointing downward.

5.2 Ropes/loops/ guy runners:

6 ropes, black, UV treated, 3 m long each, 8 mm diameter, with a minimum tensile strength of 300 kg.

4 ropes, black, UV treated, 3 m long each, 6 mm diameter, with a minimum tensile strength of 140 kg.

All ropes to be passed in the rings of the tent from factory.

All ropes to have a securely knotted loop at one end, to place over the peg.

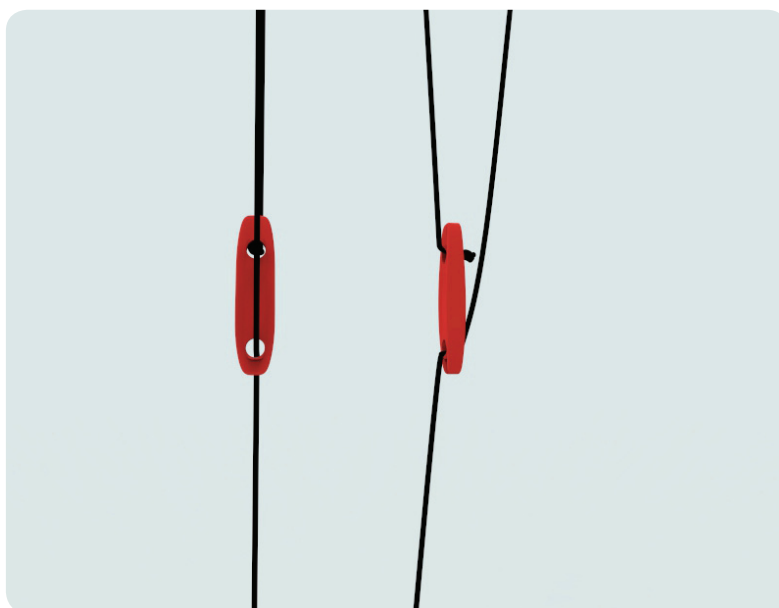
Hard wood or strong UV proof plastic guy runners, red color, already mounted on the ropes.

Technical Specifications

5. POLES AND ACCESSORIES

The grain of the wood runners to run lengthwise on the runner.

Size of the runners: 100 x 35 x 12 mm for wood runners, 15% less if made of plastic, the holes must be the same diameter as that of the ropes and adapted to the good running and blocking of the supplied ropes.



5.3 Pegs and accessories:

6 pegs of 450 mm length made of angled iron of 25 x 25 mm, 3 mm thick, with an iron rod of 50 mm length and 6 mm diameter welded on the top. On one end, both wings of the angled iron are cut at a 45° angle to form a pointed end. On the other end, both wings of the angled iron are pressed together to touch each other, and the 6 mm rod is welded on top of that end. The 6 mm rod produces a 25 mm prominence slightly bended downwards. These 6 pegs have 2 slots on each side, not opposite, to improve grip in soft ground. The width of the slots is approximately 3 mm, the depth is maximum 3 mm. Pegs are painted or galvanized.



4 pegs of 300 mm length after bending, made of iron rebar of 10 mm diameter, with a hook bended on one end, "candy cane" shape, or a cross shape, painted or galvanized.

26 pegs of 230 mm length, made of iron bar of 6 mm diameter, with a round or cross shaped head on one end, to avoid damaging the mud flap when pushed in the eyelets, painted or galvanized.

1 metal hammer of 1 kg with 300 mm wooden handle. (See specification in part 1).

Item Application Sample



General Information and Description

The Framed Tent is ideal to be used in urban areas (hard surfaces). It is used by UNHCR/ICRC/IFRC and suitable for a family of 5 people, following the recommended minimum living area in hot and temperate climates (3.5 m² per person), and providing additional space for cold climates. In cold climates, it is advisable to supply the "Winterization Kit for Family Tent".

The technical specifications of this tent were developed by shelter specialists, with close technical cooperation between UNHCR, IFRC and ICRC, to guarantee a product fit for human use in all climates, with appropriate outdoor life span, at a minimum cost.

The technical specifications of this tent are generic, ensuring that the product can be manufactured by different suppliers in various countries, with the common technical know-how and standard equipment from the tent industry.

UNHCR purchases Framed Tents through international tender processes and establishes Frame Agreements (Long Term Agreements) with manufacturers that have completed validation / qualification of Family Tent samples in one of the UNHCR approved laboratories. Family Tents are subject to random and continuous quality control throughout the Frame Agreement duration period.

For the validation / qualification of Family Tent samples, it is advisable to first ensure the adherence to the main material specifications. Information about approved technical laboratories can be obtained from UNHCR Supply Management Service in Budapest.

According to its design, Framed Tents should comply with all the technical requirements, criteria and parameters described in this document and as detailed in the technical specifications section. This tent is heavier and more expensive as compared to the standard Family Tent. This tent is meant for situations where the standard Family Tent is not the appropriate solution, i.e. urban areas with restricted space to install tents.

This self-standing frame tent allows easy set up on hard surface, offers more inner volume, and requires fewer surfaces for erection, as compared to the standard Family Tent. Nevertheless, to assure a good wind resistance, the tent needs to be securely anchored to the ground with the provided guy ropes and pegs. The symmetric flaps offer the possibility to join 2 tents together lengthwise to create larger units.

Packing

One tent with all accessories is packed in one bundle. The inner tent and outer tent are folded in a way that assures that the ground sheet provides protection to the tent and accessories from dirt and moisture.

The bundle is made of woven PE fabric of 180 g.

Total length is maximum 2250 mm, approximate diameter is 400 mm.

The metal poles and metal pegs are packed in 2 separate bags to avoid damaging other items inside the master bundle. Both of these bags are made of the same material as the master bundle.

These bags have a closure system that assures that the accessories will not come out of the bag during transport and handling. Particular care is taken when packing the pegs to assure they will not pierce the bag.

The bundle is closed with 2 webbing straps of 25 mm width, each strap with a self-locking metal buckle that will not slide during transport. Each strap has 2 handles (PE or polyester). These straps are not sewn to the bundle.

The buyer's markings are printed on the outside in indelible ink.

The international standard warning sign "protect from water" is printed on the outside of the package.

Expected Life Span

The tent is not a long-term habitat solution. It is meant for emergencies. It has a minimum 1-year lifespan, irrespective of climate.

Note: last updated, June 2015

Weight and Volume

Gross weight of Framed Tent: 87 kg approx.

Dimensions of Framed Tent: 220 x 40 x 40 cm (0.35 m³)

Dimensions

Centre height:	2.4 m
Width:	4.15 m
Ridge length:	4 m
Side wall height:	1.50 m
Door height:	1.6 m
Centre base length:	5.2 m

Optimal Shipping / Container Information

It is advisable not to load the tents as bulk shipment as they are too heavy and can be damaged during transportation (due to connectors).

Load ability with metallic cages:

20'DC – 70 Framed Tents

40'HC - 140 Framed Tents

40'DC – 140 Framed Tents

Gross weight of cages with Framed Tents (9 tents per cage) – 810 kg (approx.)

Dimension of cage with Framed Tents (9 tents per cage) – 125 x 117 x 113 cm

Manufacturer Marking

Every tent should include a tag, stitched inside the tent in one corner seam of one side wall, on the outer tent, 10 cm from the end of the wall, and 10 cm above the line where the canvas joins the PE flap, with the manufacturer identification (letters not higher than 2.5 cm). The tag should include the manufacturer's name, a unique reference batch number and the date of manufacturing. No company logo should be included with the manufacturer's marking.

Metallic Cages

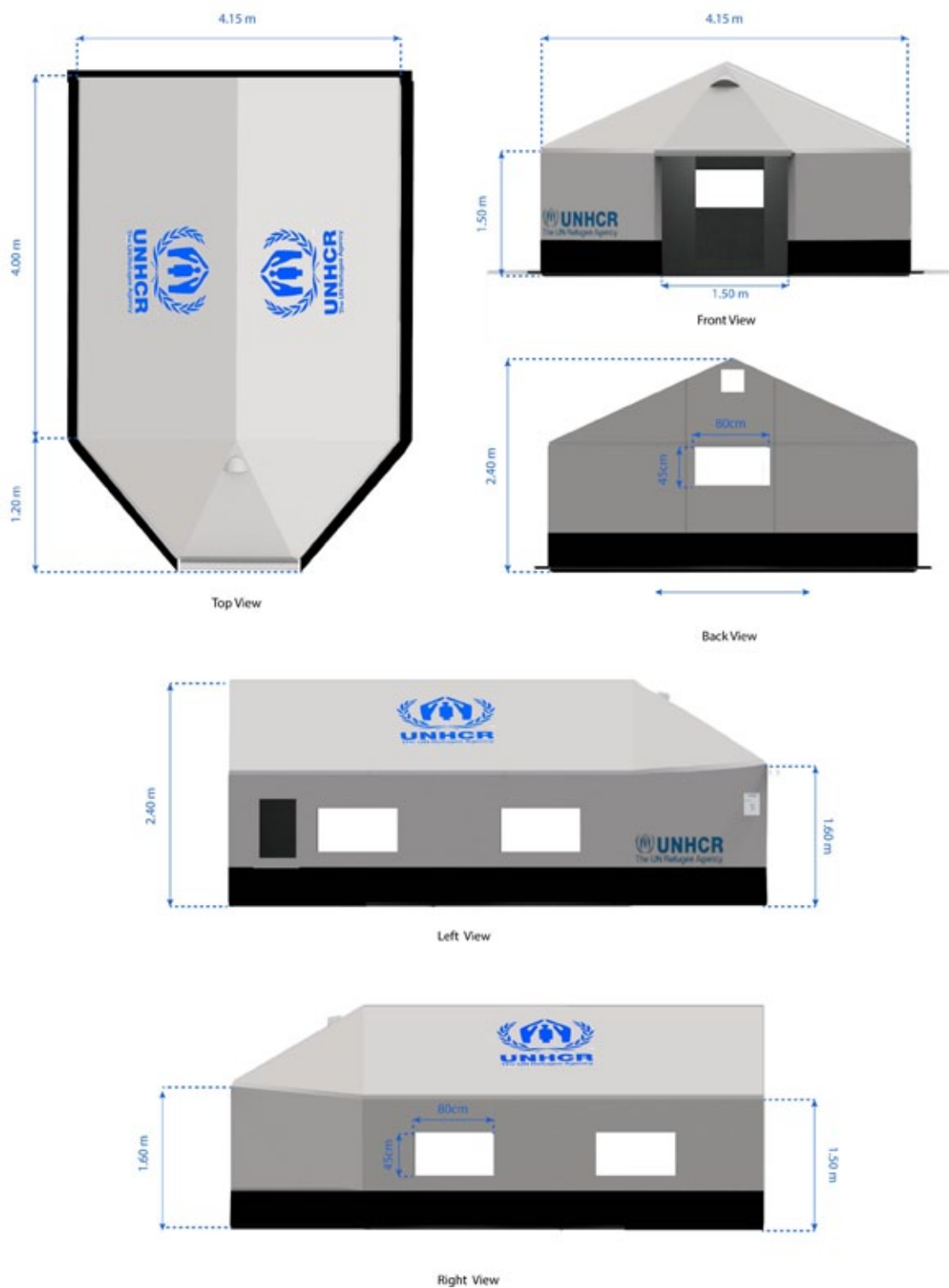
It is advisable to use stackable metal frame pallets. Such pallets avoid multiple manual handling of the bags and prevent the bags from being torn, and provides easy and fast on and off loading of containers, trucks, etc. Assures ventilation between the tents while stored in hot and humid climates which are required for long duration storage.

The metal cage pallet is stackable, protected from corrosion and adapted to optimize the container capacity.



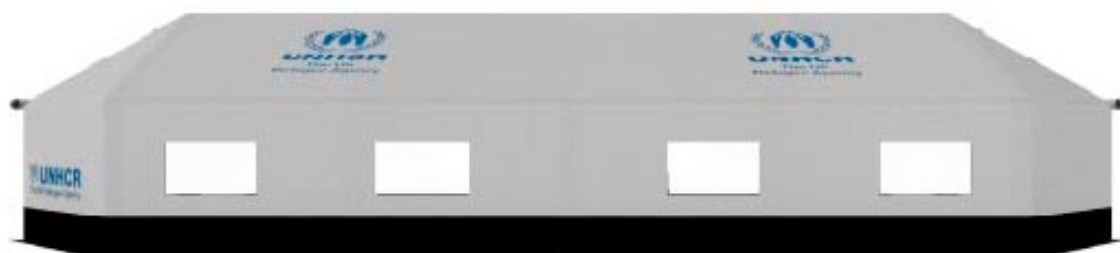
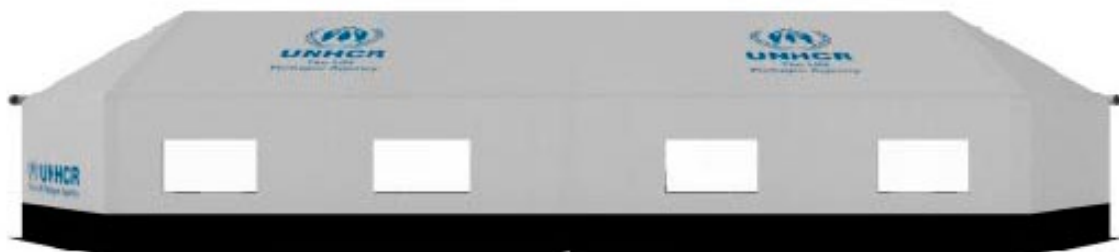
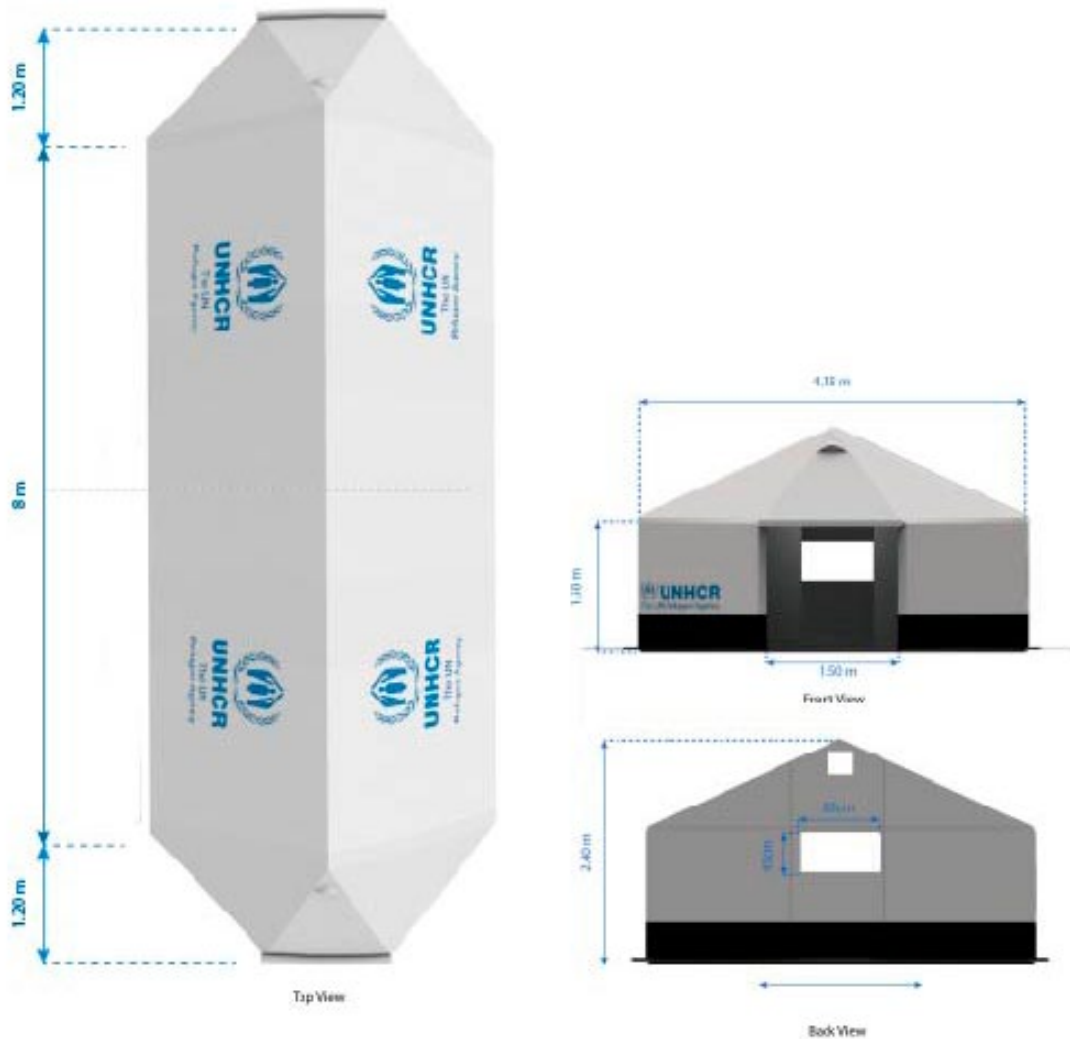
Graphic Reference

Single erecting: Setting up of one single tent



Graphic Reference

Optional erecting: Setting up two tents jointly in order to achieve bigger inner space





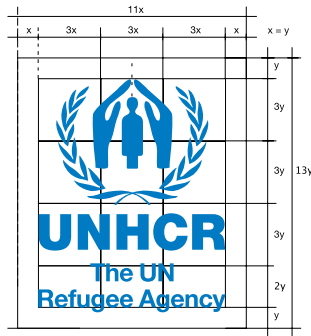
UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

FRAMED TENT

UNHCR Item No 06642

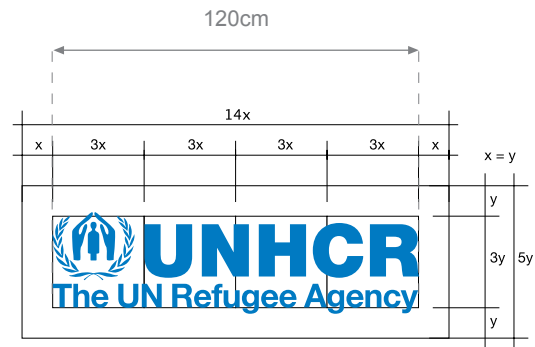
UNHCR Logo Application Reference



UNHCR vertical visibility logo on the roof of the tent:

The vertical visibility logo should be printed in blue indelible ink on both sides of the roof and in the middle for maximum visibility as showed on the graphic reference, when using 150 cm material and two seams on the canvas roof (L= 1.35 m and H= 1.65 m), following the "X" and "Y" proportionality rule to avoid distortion on the logo and letterings. RULE: Length, L = (1 X = 15 cm), so (9 X = 1.35 m). Height, H = (1 Y = 15 cm), so (11 Y = 1.65 m).

Alternatively, the vertical visibility logos could be placed diagonally on opposite sides of the roof, when using 200 cm material and a central seam.

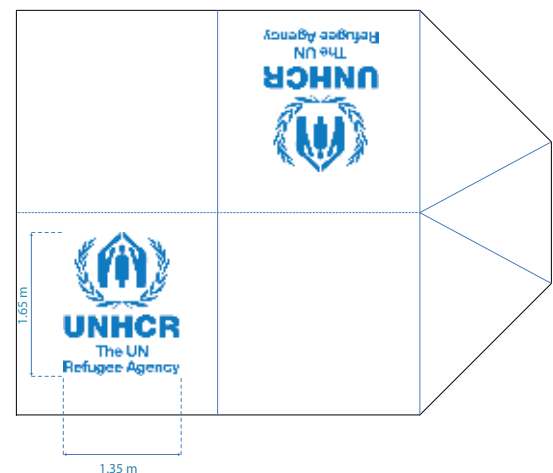
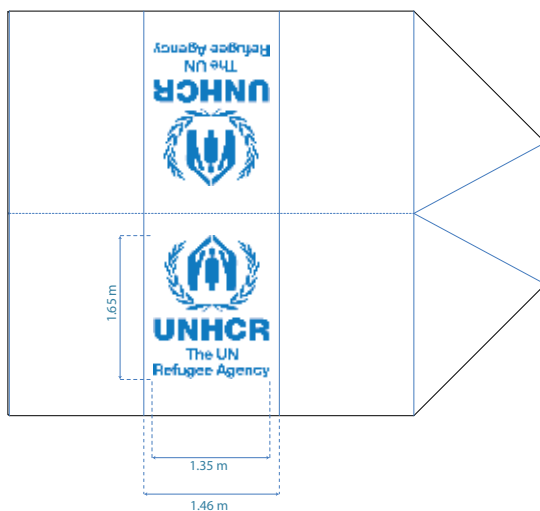


UNHCR horizontal visibility logo on both sides next to the tent's doors:

UNHCR horizontal visibility logo should be printed in blue indelible ink on both sides of the outer tent on both ends (2) of the tent next to the doors (L = 1.2 m and H = 0.35 m). The width of the marking must be 120 cm and the height proportionate to the width without any distortion of the logo and letterings (approx. 35 cm).

Typeface (Font), Colour specifications for printing: Font: Helvetica Bold. Colour specification: Pantone Blue 300 or quadrichrome (CMYK). C = 100%, M = 45%, Y = 0%, K = 0%.

UNHCR vertical Logo on the roof of the Framed Tent



Technical Specifications

The specifications of the Framed Tent are described below according to technical and performance requirements in five parts as follows:

1. Materials
2. General points of the finished product
3. Make-up outer tent
4. Make-up inner tent with ground sheet
5. Frame, poles and accessories

1. MATERIALS

All canvas materials for the tent must meet the specifications below and ISO 10966.

Information for testing:

- Two complete tents would be required to perform all the laboratory tests.
- The test pieces would be cut from one complete tent.
- The second complete tent would be used for the rain test.
- A product is deemed acceptable only if the same sample passes all criteria.

1.1 SPECIFICATIONS FOR THE OUTER TENT CANVAS

Denomination and norms	Required minimum values
1. Composition , ISO 1833	Polyester and cotton blended fibers yarns. Cotton: 40% (± 10), polyester: 60% (± 10) i.e., 50 to 70% polyester, with balance in cotton.
2. Specific weight (g/m ²), ISO 3801	350 g/m ² ($\pm 10\%$) in finished state, before FR Treatment.
3. Colour	Natural white, not dyed.
4. Water vapor permeability , ISO 17229	Minimum 2000 g/m ² /24h.
5. Tensile strength (N), Apply ISO 13934-1 to 10 test pieces of plain canvas. Apply ISO 13935-1 on 5 test pieces with seams, cut from the tent perpendicular to the seam, in the roof.	Warp and weft 850 N minimum. For plain canvas test: 5 test pieces in warp direction, 5 test pieces in weft. On seams, the test is applied to 50 mm width on the sample, as described in ISO 13935-1 page 7.
6. Tear resistance , started (N), ISO 9073-4	Warp and Weft 60 N minimum.
7. Water penetration resistance , ISO 811 Test pieces of plain canvas.	30 hPa minimum, increasing speed at 100 mm per minute.
8. Rain penetration resistance , ISO 5912 Test piece is the complete outer tent only. There should be no water penetrating inside the inner and outer tent, including through wick effect. Only the 4 places at the top of the door poles may have some leakages through the eyelets.	Apply procedure as per point 4.2.11 in ISO 5912 in point 5.6 plus following: A visual control from the inside of the tent, while the artificial rain is on, must be done after 2h and 5h, with the complete tent.
9. Dimensional variation when soaked in water , ISO 7771	Maximum 3%.

Technical Specifications

1.1 SPECIFICATIONS FOR THE OUTER TENT CANVAS

Denomination and norms	Required minimum values
<p>10. Tensile strength resistance after exposure to micro-organisms</p> <p>Under ISO 13934-1 and ISO 13935-1 after completing BS 6085 (soil burial - 28 days).</p> <p>Apply on 10 test pieces of plain canvas and 5 test pieces with seams.</p>	<p>30% maximum strength-loss on minimum required value and 50% maximum strength loss on original value of the same product.</p> <p>For plain canvas test: 5 test pieces in warp direction, 5 test pieces in weft.</p> <p>On seams, the test is applied to 50 mm width on the sample, as described in ISO 13935-1 page 7.</p>
<p>11. Efficiency of water-repellent treatments after soaking in water.</p> <p>Same test as point 7, on samples soaked in water under ISO 7771 without wetting agent.</p>	<p>30 hPa minimum, increasing speed at 100 mm per minute.</p>
<p>12. Efficiency of fungicides product after soaking in water</p> <p>Same test as point 10, on samples soaked in water under ISO 7771 without wetting agent.</p>	<p>10% maximum additional loss as compared to the results from point 10.</p>
<p>13. Tensile strength after exposure to UV and moisturizing (climatic simulation)</p> <p>Exposure in a climatic chamber under ISO 4892-2, type A, 360 hours, followed by tensile test under ISO 13934-1.</p>	<p>30% maximum strength-loss on minimum required value and 50% maximum strength-loss on original value of the same product.</p> <p>Number of test pieces: 3 test pieces in warp direction, and 3 test pieces in weft.</p>
<p>14. Flame retardant under CPAI84</p>	<p>Pass CPAI84 sections 5 and 6 with maximum 10s after flame average and maximum 30s after flame average and maximum 30s after flame per test piece. Ageing under IS) 4892-2, type A, 360 hours. For the groundsheet it should pass CPAI84 section 5 and for all other components including mud flap, it should pass CPAI84 section 6.</p>

1.2 SPECIFICATIONS FOR THE INNER TENT CANVAS

Denomination and norms	Required minimum values
<p>1. Composition, ISO1833</p>	<p>Polyester/Cotton blended fibers yarns.</p> <p>Cotton: 40%(±10), polyester: 60%(±10) i.e., 50 to 70% with balance in cotton or cotton 100%.</p>
<p>2. Specific weight (g/m²), ISO 3801</p>	<p>130 g/m² ±10% in finished state, before FR Treatment.</p>
<p>3. Colour</p>	<p>Dyed cream or beige color.</p>
<p>4. Water vapor permeability, ISO 17229</p>	<p>Minimum 2000 g/m²/24h.</p>
<p>5. Tensile strength (N), ISO 13934-1</p>	<p>Warp and Weft 300 N minimum.</p>
<p>6. Tear resistance (N), ISO 9073-4</p>	<p>Warp and Weft 20 N minimum.</p>
<p>7. Tensile strength resistance after exposure to micro-organisms</p> <p>Under ISO 13934-1 after BS6085 (soil burial - 14 days). Apply on 10 test pieces of plain canvas.</p>	<p>Maximum 30% of strength loss on minimum required value and maximum 50% strength loss on original value of the same product. 5 test pieces in warp, 5 test pieces in weft.</p>
<p>8. Flame retardant under CPAI84</p>	<p>Pass CPAI84 sections 5 and 6 with maximum 10s after flame average and maximum 30s after flame average and maximum 30s after flame per test piece. Ageing under IS) 4892-2, type A, 360 hours. For the groundsheet it should pass CPAI84 section 5 and for all other components including mud flaps, it should pass CPAI84 section 6.</p>

Technical Specifications
1.3 SPECIFICATIONS FOR MUD FLAP PE FABRIC

Specifications for standard UNHCR plastic sheeting can also apply. In this case the original lab report from the PE factory will be accepted if still valid.

Denomination and norms	Required minimum values
1. Composition	Woven, high-density polyethylene black fibers, fabric laminated on both sides with low-density polyethylene coating. Alternatively Plastic Tarpaulin can be used.
2. Specific weight (g/m ²), ISO 3801	130 g/m ² ±10% in finished state, before FR Treatment.
3. Tensile strength (N) Apply ISO 13934-1 on 10 test pieces of plain PE fabric. Apply ISO 13935-1 on 5 test pieces with seams, cut from the tent perpendicular to the seam, at the junction of PE and canvas.	Warp and weft 650 N minimum. Elongation 15% to 25%. For plain PE fabric test: 5 test pieces in warp direction, 5 test pieces in weft. On seams, the test is applied to 50 mm width on the sample, as described in ISO 13935-1 page 7.
4. Tear resistance (N) ISO 4674-1 (method B)	Warp 100 N minimum, weft 100 N minimum.
5. Resistance to micro-organisms	Insensitive to micro-organisms. Not to be tested.
6. UV resistance as percentage of tensile strength-loss Under ISO 1421, after 1500 hours. UV under ASTM G53/94 (UVB 313 nm peak).	30% maximum strength-loss on minimum required value and 50% maximum strength-loss on original value of the same product. 5 test pieces in weft direction, and 5 in warp direction.
7. Colour	White if made with UNHCR standard plastic sheeting.
8. Flame retardant under CPA184	Pass CPA184 sections 5 and 6 with maximum 10s after flame average and maximum 30s after flame per test piece. Ageing under ISO 4892-2, type A, 360 hours. For the groundsheet it should pass CPA184 section 5 and for all other components, including mud flaps, it should pass CPA 184, section 6.

1.4 SPECIFICATIONS FOR THE GROUND SHEET PE FABRIC

Specifications of standard UNHCR plastic sheeting can also apply. In this case the original lab report from the PE factory will be accepted if still valid. The same type of PE as per the one used for the mud flaps can be used for the ground sheet. In this case the criteria below do not apply.

Denomination and norms	Required minimum values
1. Composition	Woven polyethylene fabric, coated on both sides with low-density polyethylene. Alternatively Plastic Tarpaulin can be used.
2. Specific weight (g/m ²), ISO 3801	130 g/m ² ±10% in finished state, before FR Treatment.
3. Tensile strength (N), ISO 1421	Warp 300 N minimum, weft 300 N minimum.
4. Tear resistance (N), ISO 4674-1 (method B)	Warp 60 N minimum, weft 60 N minimum.

Technical Specifications

1.4 SPECIFICATIONS FOR THE GROUND SHEET PE FABRIC

Denomination and norms	Required minimum values
5. Resistance to micro-organisms	Insensitive to micro-organisms. Not to be tested.
6. UV resistance as percentage of tensile strength-loss Under ISO 1421, after 300 hours. UV under ASTM G53/94 (UVB 313 nm peak).	30% maximum strength-loss on minimum required value and 50% maximum strength-loss on original value of the same product. 5 test pieces in weft direction, 5 test pieces in warp.
7. Colour	White if made with UNHCR standard plastic sheeting.
8. Flame retardant under CPA184	Pass CPA184 sections 5 and 6 with maximum 10s after flame average and maximum 30s after flame average and maximum 30s after flame per test piece. Ageing under ISO 4892-2, type A, 360 hours. For the groundsheet it should pass CPA184 section 5 and for all other components including mud flaps it should pass CPA184 section 6.

1.5 SPECIFICATIONS FOR THE MOSQUITO NET, INNER TENT DOORS AND WINDOWS

Denomination and norms	Required minimum values
1. Material, ISO 1833	Polyester 100%, or PE 100%.
2. Fabrication, ISO 8388	Warp knitted.
3. Denier	75/100 for the polyester. 100 to 150 for the PE.
4. Filament	Multi-filament 36 or higher for the polyester. Monofilament for the PE.
5. Mesh size	25 holes/cm ² (156 holes/inch ²).
6. Weight, ISO 3801	85 to 100 g/m ² for polyester. 40 to 47 g/m ² for PE.
7. Shrinkage, ISO 5077	5% maximum.
8. Bursting strength, ISO 13938	250 kPa minimum for polyester. 320 kPa minimum for PE.
9. Bursting strength after exposure to UV and moisturizing (climatic simulation) Exposure in a climatic chamber under ISO 4892-2, type A, 180 hours, followed by bursting test under ISO 13938.	30% maximum strength-loss on minimum required value and 50% maximum strength-loss on original value of the same product. Number of test pieces: 3 test pieces.
10. Colour	White.

Technical Specifications

1.6 SPECIFICATIONS FOR THE OUTER TENT GUYING POINTS

Denomination and norms	Required minimum values
1. Material compositions	Polyethylene, polypropylene or polyester ropes, Polyester straps, steel rings, elastic device.
2. Tensile strength (N) , ISO 13934 On the samples with a complete guy point ensemble including all of the reinforcement pieces. Refer to note below.	3000 N minimum for the 6 side guy points (3 test pieces). 1400 N minimum for 4 other guy points (2 test pieces). Elongation of the elastic device under 1000 N: 50 mm minimum, 100 mm maximum.
3. UV resistance in percentage of tensile strength-loss after exposure in a climatic chamber Under ISO 4892-2, type A, 360hours.	30% maximum strength-loss on minimum required value and 50% maximum strength-loss on original value of the same product 1 test piece at 1400 N, and one at 3000 N.
4. Colour	Black ropes and straps, galvanized steel.

Notes for point n°2:

- Sample size: W 300 x L 500 mm.
- Sample to be cut at the centre guy line for the 6 side points (500 mm length including eave).
- Samples to be cut on the top corner of the outer doors for the 4 other points.
- Samples to be folded in order to fit in the traction apparatus so that the entire width of the canvas is submitted to the traction when clamped in the jaw of the apparatus. Samples must include: a canvas section from the tent roof, canvas reinforcements, strap, ring, elastic device, buckle, runner and a significant part of the guy rope (the ring and the runner do not need to be included in the UV test).
- Traction must be applied between the tent's roof canvas and the guy rope.

1.7 SPECIFICATIONS FOR HAMMER

Denomination and norms	Required minimum values
1. Type	Sledge hammer, 1 kg head, with 30 cm wooden handle. In accordance with ISO 15601 and the specifications listed below.
2. Handle	No chips, rough surfaces, holes or knots. Smooth surface. Strong dry flexible wood. Handle adjusted to head in order to protrude on other side of the head, and be blocked with a metal wedge; or have a conical shape (like a hoe). Moisture minimum 10% and maximum 15%, under ISO 3130.
3. Pull apart test	Clamp head in a vice jaw after two series of 25 vigorous blows from varying delivery angles. Apply traction of 500 N while trying to pull out the handle, there should be no damage to the hammer's head or handle, and the handle should remain firmly attached to the head.

Technical Specifications

2. GENERAL POINTS FOR THE FINISHED PRODUCT**2.1 Performances:**

The final product must be able to withstand 75 km/h wind, to be strongly attached to the ground and tensioned without any damages.

When closed, the tent must give a good protection against dust, wind, rain, snow, insects and small crawling fauna. Minimum roof load to be 300 N/m² under ISO8937 (snow load for camping tent). In combination with additional central 31 mm support pole included in optional winter package.

The recommended final packed tent weight is approximately 87 kg.

2.2 Seams and stitching:

All seams subject to possible tension are double lock stitched and water proofed. Stitching produces strong, long lasting, neat and professional looking seams.

The stitch count as well as UV and rot-proof sewing threads are appropriate and adapted to each fabric. It allows for strong waterproof seams with at least the same life span as the tent.

The seams are always oriented in order to let the rain run freely, to avoid retaining water lines or water pockets.

Wherever possible the colour of the sewing thread is adapted to the fabric colour.

2.3 Ropes, webbing bands, toggles, loops, reinforcement nettings, and all other accessories:

All ropes and webbing bands are heat cut. All ropes are knotted to the tent from the factory.

All above mentioned items are rot proof and UV proof at least as much as the tent canvas which they are sewn to. No webbing or rope is sewn through a stitch going from outside the tent to inside the tent to avoid water penetration by capillarity, or are made of waterproof materials.

Laces or loops can also be made of the same canvas as the tent roof/wall for the outer tent loops, and of the same canvas they are sewn to for the inner tent loops.

2.4 Zipper fasteners:

All the zip fasteners conform to a resistance of 700 N lateral traction under ISO5912.

2.5 Eyelets:

All metal eyelets are rustproof and correctly placed, reinforced with a fabric patch and of a minimum 10 mm inner diameter.

2.6 Metal rings:

All metal rings are rustproof galvanized and closed by welding.

2.7 Dimensional tolerance:

Unless otherwise specified, a tolerance of maximum $\pm 3\%$ is accepted on all dimensions.

2.8 Long storage (shelf life):

The tent is treated and packed in such a way that the tent can be stored up to minimum 5 years in proper storage conditions without any damage or performance reduction. Store elevated from the ground (on pallets and pallet racks) in a dry, clean and ventilated warehouse.

The tent must be manufactured and packed in clean and appropriate conditions to avoid contamination from soil dust and other contaminants.

We recommend using metal frame pallets. These pallets avoid multiple manual handling of the bags, easy and fast on and off loading of containers, trucks, etc. Assures ventilation between the tents while stored.

Technical Specifications

3. MAKE-UP OF OUTER TENT

3.1 General Description of outer tent:

The outer tent is made of several cloth sections that form the general shape of the tent. The seams are running from the ridge down to the roof edges, perpendicular to the ridge line. The outer tent is supported by a metal frame with 2 up standing poles to support the ridge of the frame, 4 guy ropes on each side, 2 guy ropes at front end and 1 guy rope at the back. The attachment points of each guy rope are reinforced.

3.2 Dimensions / erecting system:

Centre height:	2.4 m
Width:	4.15 m
Ridge length:	4 m
Side wall height:	1.50 m
Door height:	1.6 m
Centre base length:	5.2 m



The outer tent is placed on the frame and maintained in position to the frame by using strings, Velcro straps and webbing bands with hooks (please refer to point 3.8)

3.3 Reinforcements:

The 11 roof guying points are made of 50 mm wide polyester straps, sewn to the fabric in extension of the roof. On the 4 corner guying points an additional layer of PVC coated canvas is added on the inside.

The entire length of the ridge is reinforced on the inside with a 150 mm strap of same fabric as the roof.

The attachment sleeves for the ridge pipe are sewn to this reinforcement.

3.4 Attachment system (guy lines):

The outer tent is anchored to the ground using 11 guy lines which are attached to 11 metal pegs.

Each guying point on both sides presents a loop made of 50 mm wide webbing. The length of the webbing allows, when folded double, the creation of a loop of minimum 30 mm long, to be stitched to the tent with a strong Z or X sewing on minimum 50 mm long.

The webbing loops are placed perpendicularly to the tent edge on the sides, at 30° angle in the corners, and in the alignment of the vestibules roof shape at ends.

11 metal rings are attached to the loops by the means of an elastic device. The ropes pass into the metal rings. When tensioning, the ropes are sliding in the metal rings.

At the other end, the ropes have a fixed knotted loop to place over the peg.

The attachment points are made in such way they comply with resistance specified in point 1.7.



Technical Specifications

3. MAKE-UP OF OUTER TENT

3.5 Windows:



The outer tent has 6 windows. 5 with mosquito netting and a rain flap running on both sides of the tent and one on the back side. 1 small window with transparent PE fabric on the vestibule. This window has a flap inside made with the same canvas material as the inner tent.

The inside dimension of the large windows are 80 cm wide and 45 cm high and the top edge of the window is placed ± 30 cm below the roof of the tent. The 5 window openings are reinforced either with strong reinforcement netting (large holes strong plastic net) or with standard netting and strips of 20 mm polycotton webbing that reinforce the window horizontally (1 webbing) and vertically (1 webbing). These webbings are sewn to the edges of the tent opening and to the mosquito netting.

The window flap is 90 cm wide x 55 cm high. The flap is held by 25 mm Velcro webbing which is placed along the length of the vertical sides and bottom and at a 25 mm distance from the window opening. Loops and plastic toggles or hooks are used to keep the flap open when rolled up.

3.6 Ventilation $\frac{1}{2}$ cones on top of the vestibules:



The outer tent has 2 ventilation openings in front and back with reinforcement netting and a rain flap.

Front vent is triangular and is placed on the top of the vestibule. The inside dimensions of the vent is 280 mm wide and 250 mm high. The vent flaps are made in such a way that they are distanced from the ventilation opening when open, making a $\frac{1}{2}$ cone shape of 250 mm in its middle.

The flap can be closed with a 25 mm Velcro attached to the full width.

The back ventilation opening is rectangular and placed on top of the wall, Size 300 x 300 mm.

The vent openings are reinforced either with strong reinforcement netting (large holes strong plastic net), or with standard netting and with two strips of 20 mm cotton or polyester webbing that bisects the vent horizontally and vertically. These webbings are sewn to the edges of the vent opening and to the netting.

3.7 Outer tent door

Front door

Size: W 1.5 x H 1.5 m

Door flaps are 1.5 m wide x 1.6 m high:

- Upper part is 1.5 m wide x 1.08 m high, made of canvas.
- Lower part is 1.5m wide x 0.52 m high, made of woven PE fabric.

Rear door

Size: W 1.0 x H 2.1 m

Door flaps are 1.0 m wide x 2.1 m high:

- Upper part is 1.0 m wide x 1.58 m high, made of canvas.
- Lower part is 1.0 m wide x 0.52 m high, made of woven PE fabric.

Technical Specifications

3. MAKE-UP OF OUTER TENT

The vestibule doors can be used as awnings. The rolled up door is hold up by 3 loops and 3 plastic toggles or hooks.

The doors can be closed by means of lacing/loop system. The loops are made of 4 mm rope or canvas strips (7 loops and eyelets per door side). For each lace/loop system, a toggle or a hook is placed in order to attach the last loop.

The lacing/loop system is protected by a double 50 mm flap to prevent rain and draughts.

Each door has one side closable from inside and the other side closable from outside.



3.8 Side walls, vestibule walls, mud flaps:

Total height is 1.70 m corresponding to 1.50 m vertical plus 0.2 m on the ground.

The upper part (1 m) of the walls is made of Polyester Cotton fabric, lower part (0.7 m) of PE fabric.

The mud flaps are equipped with 12 eyelets (2 on each side, 4 in front and 4 rear), placed on a line reinforced with a full length 50 mm webbing sewn to the mud flap at floor level, on the inside.

Alternatively plastic sheeting can be used and instead of webbing bands reinforcement bands are acceptable. Stitch length and thread to be appropriate for the materials to prevent tear off of the mud flap along the stitching.

The outer tent is attached to the frame and poles, with 8 Velcro straps for the roof pipes.

The mud flaps are hooked with 25 mm large adjustable webbing band with hook to the base plates.



Technical Specifications

3. MAKE-UP OF OUTER TENT

3.9 Chimney reinforcement:

A chimney reinforcement with non-perforated opening is placed at side wall, between the corner and the window. This is made of heat resistant fabric (minimum 900°C). The type of fabric that keeps the fibers not loose when cut.

The lower edge of the heat-resistant fabric must be 500 mm above the ground, where the canvas joins the PE part (a band of canvas of 2 to 3 cm is allowed between the PE and the fireproof material).

Inside dimensions: W 250 x H 600 mm.

The chimney flap outside is 350 mm wide x 700 mm high. The flap is stitched at the bottom 50 mm under the lower edge of the chimney opening. The flap is held by 25 mm Velcro webbing which is placed along the entire vertical sides and upper end at a 25 mm distance from the chimney opening.

The tent fabric is cut away completely at the position of the chimney opening. The edges of the chimney opening are hemmed stitched to the inside.



3.10 Connection flap:

Made of the same fabric as the outer tent. Symmetric flap system offers the possibility to connect 2 tents together lengthwise.



Technical Specifications

4. MAKE-UP OF INNER TENT WITH GROUND SHEET

4.1 General description:

The inner tent is square in shape and is hanging inside the outer tent structure and is hooked to the frame. All dimensions are meant to allow a 10 cm air gap between the outer tent and the inner tent.

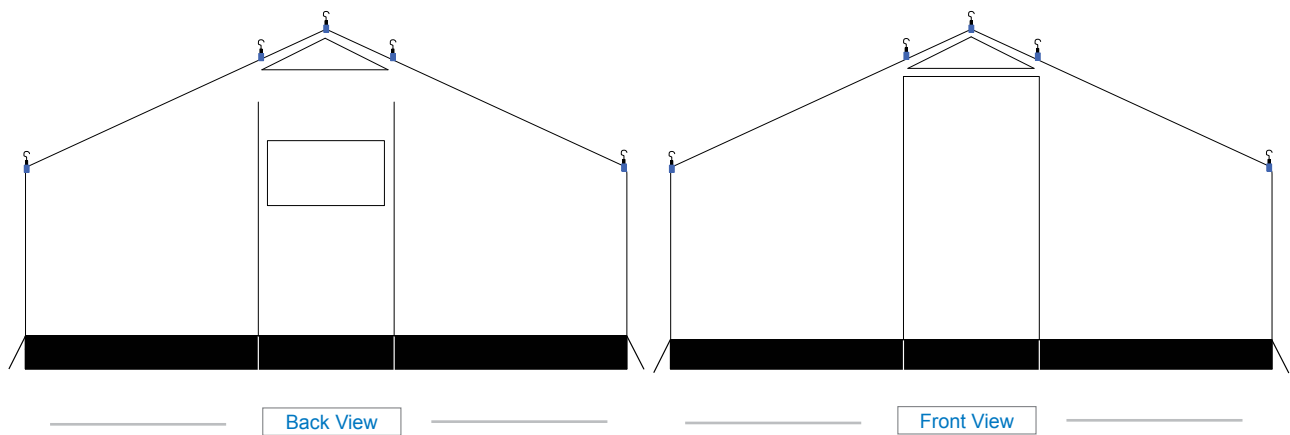
At the ground sheet level it is hooked to the frame base plates with 6 elastic webbings and plastic hooks of 20 mm width.

The inner tent has one chimney reinforcement, 5 windows, 2 doors and 2 vents. The bath tub ground sheet (floor) is made of woven PE fabric sewn to the inner tent and extends up the sides of the wall to assure the inside remains waterproof. No stitching is allowed at the lower part of the groundsheet to assure 100% waterproofing. The ridge of the inner tent has 3 equally divided holes reinforced with PVC fabric to allow protruding of the support poles to join the frame.



4.2 Inner tent dimensions:

The inner tent, when hooked to the outer tent has a centre height of 2.3 m, a width of 3.95 m, a wall height of 1.40 m and a base length of 3.80 m.



4.3 Inner doors:

The door opening is 1 m wide and at 1.70 m high from the floor (1.50 m measured from the upper edge of the ground sheet).

The door panel (1.0 m wide) is placed in the centre of the front wall.

The doors are made of the same material as the inner tent and close with polyester n°10 coil zip fasteners at the 2 vertical sides. The zip fasteners can be opened from inside and outside.

Technical Specifications

4. MAKE-UP OF INNER TENT WITH GROUND SHEET

The doors have a 200 mm PE flap at the bottom, made of same material as the ground sheet.

Black UV stabilized ropes or canvas laces with plastic toggles or hooks are used to keep the door opened when rolled up.

Mosquito nets (1.0 m wide) are placed on the inside of the doors. The 2 vertical sides are closed with n°10 polyester coil zip fasteners. The bottom edge of the mosquito flap closes with one piece of 25 mm Velcro along the entire width.

To facilitate the door closing:

2 webbing loops with eyelets are placed at the bottom of each door side aligned with the zips. They are used to attach the tent to the ground with pegs of 6 mm x 270 mm. The webbing loops are stitched into the seam where the PE joins the fabric, and are 200 mm long.

4.4 Inner tent suspension system:



The inner tent is suspended from the frame with 24 to 26 metal galvanized 4 mm wire hooks mounted on webbing loops of 50 mm wide.

The total length of the loops including the metal hook is 100 mm. The hooks are positioned as per below drawing: 6 at the ridge, 5 on each side wall pipe and 4 on each gable pipe. The side walls of the inner tent are hooked with plastic hooks mounted on webbing loops to the corresponding rings of the base plates of the frame.

These elastic webbing bands are stitched to the tent in the seam where the PE and fabric are joined. The inner tent has 26 loops of 20 mm, made of canvas, for the attachment of the optional inner lining or the optional inner partition. The loops are placed in the inside of the inner tent at every place where the inner tent is attached to the frame, plus 2 loops at the bottom of each doors where the webbings for the ground attachment are placed (6 at the ridge, 5 at the top of each side wall, 3 at the bottom of each side wall, 2 at the base of each doors).

4.5 Inner tent ventilation system:



The inner tent has 2 triangular vents at each gable top, made of mosquito net and reinforced with 20 mm webbings. The triangle is 900 x 300 mm (all space from the ridge to the top of each door). The ventilation system can be closed with a flap opening downwards, and sealed with 25mm Velcro on all sides.

4.6 Inner tent windows:



The inner tent has 2 doors, 5 windows, two on each side wall and one at the back wall of same size and reinforcement, corresponding to the outer tent windows. The flap made of same material as the inner tent is placed inside and opens downwards. It closes with 25 mm Velcro on all sides, and hangs freely when open.

Technical Specifications

4. MAKE-UP OF INNER TENT WITH GROUND SHEET

4.7 Accessories inside the inner tent:

To hang light weight properties, 2 pouches hang above each window, webbing with hooks at the ridge.

4.8 Ground sheet:

The integrated ground sheet is made of PE woven fabric. The seam that attaches the ground sheet to the sides of the inner tent is 200 mm above the floor. To avoid water infiltration no stitching seams are allowed in the groundsheet. All seams to be welded by heat sealing and have a 25 mm overlap.

4.9 Chimney reinforcement:

A chimney reinforcement with non-perforated opening is placed at the side wall corresponding the chimney reinforcement of the outer fold. This is made of heat resistant fabric (minimum 900°C).

Inside dimensions: W 250 x H 550 mm. The lower edge of the opening is 650 mm above the ground.

The tent fabric to be cut away completely at the position of the chimney opening. The edges of the opening are hemmed stitched.



4.10 Inner partitions:

Two types of inner partition can be added on request, made of the same material as the inner tent. One type is a semi-partition running from the centre pole to one side wall. One type is a full partition, running from one side wall to the opposite side wall, made with 2 pieces of the semi-partition. These partitions are attached to the inner lining loops at roof and wall levels, and to the centre pole.



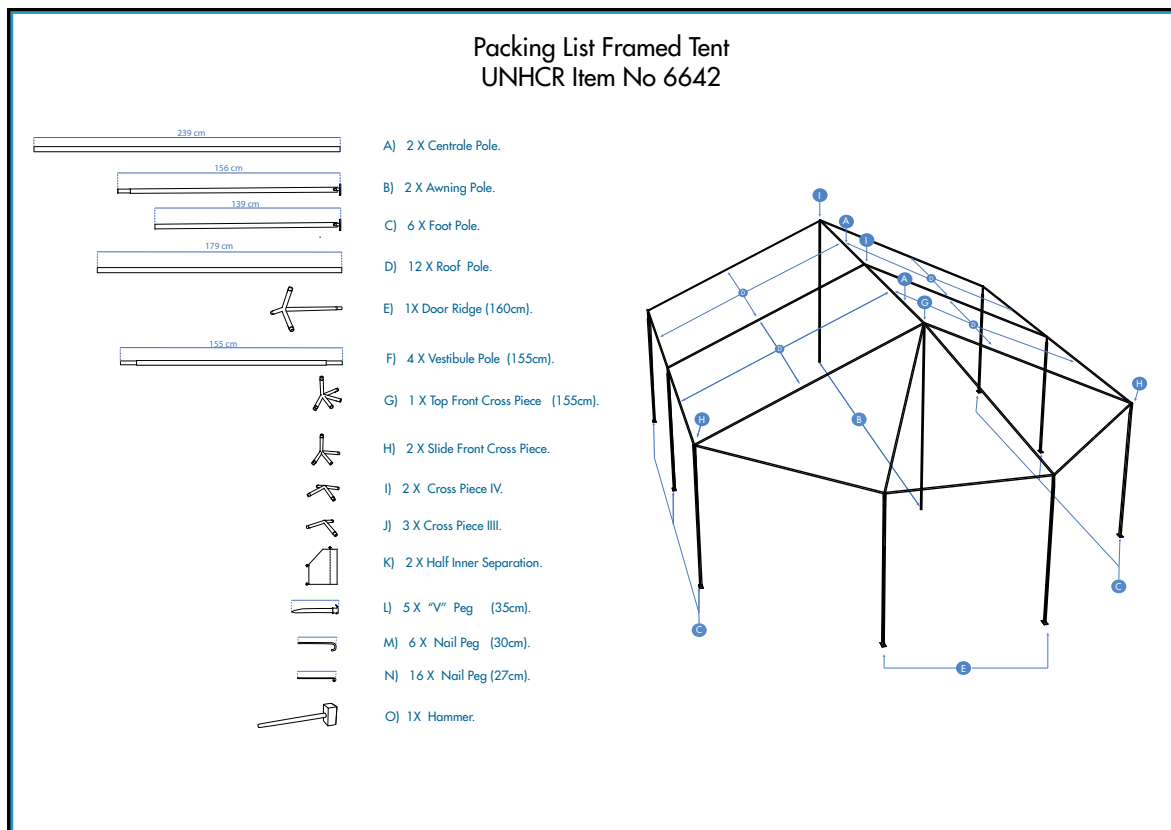
Technical Specifications

5: FRAME, POLES AND ACCESSORIES

5.1 Frame and Poles:

Frame sections:

- All frame parts are made of 25 x 1.2 mm thick galvanized or painted steel pipe. The male fittings of the cross pieces are to be minimum 8 cm long.
- Each section should fit together with a male and female 80 mm joint, made with a 160 mm long inserted pipe point-welded or crimped into one of the pipes (not to be made with press-reduced pipe diameter).



Support Poles:

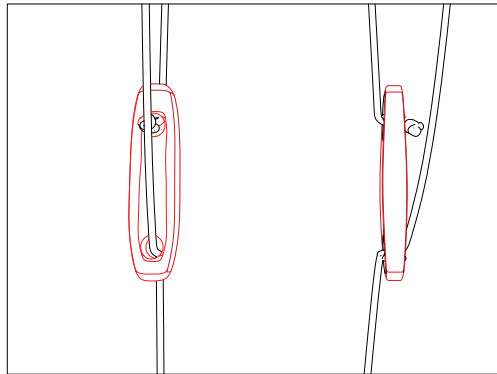
- 2 support central poles of 239 cm each (size without U-bracket), with minimum outer diameter 25 mm galvanized or painted steel pipe minimum 1.2 mm wall thickness, comes in two pieces. This pole comes with U-shape metal bracket of 30 mm length .
- The base of each pole to have a metal or plastic base plate of 50 mm diameter.
- The poles protrude the inner tent at PVC reinforced positions on the ridge.

Technical Specifications

5: FRAME, POLES AND ACCESSORIES

5.2 Ropes/loops/guy runners:

- 4 corner ropes, black, UV treated, 3 m long each, 8 mm diameter, a min. tensile strength of 300 kg.
- 4 intermediate ropes, black, UV treated, 3 m long each, 6 mm diameter, a min. tensile strength of 140 kg.
- 2 vestibule ropes, black, UV treated, 3 m long each, 6 mm diameter, a min. tensile strength of 140 kg.
- 1 back gable rope, black, UV treated, 5 m long, 8 mm diameter, a min. tensile strength of 300 kg.
- All ropes to be passed in the rings of the tent from factory.
- All ropes to have a securely knotted loop at one end, to place over the peg.
- Hard wood or strong UV proof plastic guy runners, red colour, already mounted on the ropes.
- The grain of the wood runners to run lengthwise of the runner.
- Size of the runners: 100 x 35 x 12 mm, holes to be the same as the diameter of the rope.
- The ropes are passed in the runners in a way that makes the maximum blocking effect on the ropes.



5.3 Pegs and accessories:

- 5 pegs of 350 mm length, made of angled iron 25 x 25 mm, 3 mm thick, with an iron rod of 50 mm long and 6 mm diameter welded on the top. On one end, both wings of the angled iron are cut at 45° angle to form a pointed end. On the other end, both wings of the angled iron are pressed together to touch each other, and the 6 mm rod is welded on top of that end. The 6 mm rod produces a 25 mm prominence slightly bended downwards. These 4 pegs have 2 slots on each side, not opposite, to improve grip in soft ground. The width of the slots is approximately 3 mm, the depth is maximum 3 mm. Pegs are painted or galvanized.
- 6 pegs of 300 mm length after bending, made of iron Rebar of 10 mm diameter, with a hook bended on one end, "candy cane" shape, or a cross shape, painted or galvanized.
- 16 pegs of 270 mm length, made of iron bar of 6 mm diameter, with a round or cross shaped head on one end, to avoid damaging the mud flap when pushed in the eyelets, painted or galvanized
- 1 metal hammer of 1 kg with 300 mm wooden handle. (See specification part 1).
- 1 set up instruction sheet in English language plus step by step drawings or photos printed on durable fabric and stitched to the outside of the accessory bag or printed on pole bag.



Item Application Sample



General Information and Description

This is an accessory for the standard Family Tent that is highly recommended in hot climate, to reduce the temperature inside the tent.

This shade-net is supplied with all required accessories for installation on already installed tents.

The dimensions of this shade-net are designed to fit the standard Family Tent. For other types of tent, please order shade-nets accordingly.

Packing Size

Packing size: 110 x 25 x 16 cm.

Volume: 0.044 m³

Gross weight: 10.8 kg.

OPTIONAL PACKING IN ROLLS

Technical Specifications

Heavy-duty plastic shade-net, dark blue colour.

Manufacturing process: knitting.

Material: High Density Polyethylene, HDPE.

Dimension: 4 m x 5.2 m

Minimum weight: 140 g/m² +/-5%

Warp spacing: 5mm maximum.

Shade rate: 80%

Bursting strength: 600kPa minimum under ISO 13938.

Anti-UV treated: The bursting strength after 1500 hours UV under ASTM G53/94 (UVB 313 nm peak) must be: minimum 80 % of the original value of the actual product, AND not less than 570kPa.

Guy point tensile strength: Tensile strength at original state must be minimum 1400N under ISO 13934 on the complete guy point ensemble including all of the reinforcement pieces.

Tensile strength: 450N/5cm minimum under ISO 13934-1.

Tear Resistance: 100N minimum trouser method under ISO 9073-4

Accessories:

Six poles, painted steel, telescopic. Main part of 1.45 m x diameter 19 mm x 1 mm wall thickness. Inner part of corresponding diameter x 0.50 m. Total pole adjustable length: 1.5 m to 1.75 m.

Six guy ropes, black, UV treated, each 3 m long, 6 mm diameter, with a minimum tensile strength of 140 kg.

Item Application Sample



General Information and Description

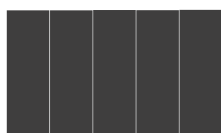
The Winterization Kit was developed to improve the insulation against cold for UNHCR Family Tents.

The Winterization Kit includes the following items: winterization liner, partition, chimney sleeve, insulating mats and floor protection (for the wooden stove). All the components are fire retardant to the level of the CPAI84 regulation.

The winterization kit does not include any stove/heater or fuel. These items must be purchased separately, depending on the fuel type available in the area.

One alternative is to use the wooden stove (item No. 06649 in this catalogue) to provide heat and cooking alternatives.

Floor Protection



Outside
View

Optimal Shipping / Container Information

180 winterization kits per 20'DC (without pallets)
360 winterization kits per 40'DC (without pallets)
450 winterization kits per 40'HC (without pallets)

20'DC 28 pallets x 4 pcs = 112 winterization kits
40'DC 60 pallets x 4 pcs = 240 winterization kits
40'HC 60 pallets x 4 pcs = 240 winterization kits

Packing

The kit is packed individually in a strong waterproof plastic bag, made of standard plastic tarpaulin.

The package must be secured with 2 webbing straps on the outside; each strap must have a strong self-locking buckle that will not slide during transport made with galvanised steel wire of 4 mm diameter minimum. The straps must not be sewn to the outer bag. Each strap provides 2 handles.

The standard international warning sign "protect from water" and the buyer's markings/logo and item name must be printed on the outside of the package in indelible ink.

Inside the bag, 1 set-up instruction sheet in English, showing step by step set-up information with drawings and item content list and information, printed on durable laminated paper or durable fabric.

Kit dimensions: approx. 93 x 39 x 40 cm

Kit volume: approx. 0.145 m³

Unit weight: approx. 30 kg



CRI Pallet Details

Fumigated as per IPSM 15 standard. Dimensions (L x W x H): 1150 x 770 x 144 mm. Maximum height of the packed pallet: 115 cm. Pallets should be shrink-wrapped and strapped. The palletized goods must not exceed the length and width of the pallet. For further information please refer to section IV Pallet Information.

Manufacturer Marking

Every packing unit should contain a tag showing the manufacturer's name, Batch number, and date of production in each tent.

Note: last updated, June 2015

Technical Specifications

The specifications of the Winterization Kit are described below according to technical and performance requirements in four parts as follows:

1. Specifications for the floor protection
2. Specifications for the winterization liner
3. Specifications for the sleeve, heat resistant, for the Family Tent heater fume pipe
4. Specification for the insulating floor mat

1. SPECIFICATIONS FOR THE FLOOR PROTECTION

Denomination and norms	Required minimum values
1. General Information	Protection for the use of a stove/heater in the standard Family Tent. This floor protection can be used in any tent to protect the groundsheet when using a heater. The protected area is 0.5 m x 1 m, so that the size of the heater should not exceed 0.4 m x 0.8 m.
2. Material	<ul style="list-style-type: none"> - The plates are made of fibrocement. - The material is 100% fire-proof and rigid. - User's health safety: The materials and additives used in the kit should be non-toxic for human use, free from asbestos and other toxic products, according to the EC regulations.
3. Design	The floor protection is composed of four to six plates of 4 mm thickness to cover a total surface of minimum 0.5 x 1 m.
4. Dimensions / Size	The floor protection is composed of four to six plates of 4 mm thickness to cover a total surface of minimum 0.5 x 1 m.
5. Packaging	<p>If supplied separately, the floor protection is packed into a strong export quality 5 plies cardboard, strapped with 4 heat sealed plastic straps. Indicate product name on the outer package with indelible marking.</p> <p>If supplied within the Winterisation Kit, the floor protection plates are individually wrapped in strong paper before being placed in the center of the kit package, in order to be protected from shocks during transport.</p>

2. SPECIFICATIONS FOR THE WINTERIZATION LINER

Denomination and norms	Required minimum values
1. General Information	<p>This inner liner for the standard Family Tent is recommended to improve the insulation against the cold.</p> <p>This inner liner is designed to fit together, in particular to the attachment points of the liner, and the heater flue pipe protection. This inner liner includes an inner partition.</p>
2. Material	<ul style="list-style-type: none"> - Material weight: 130 g/m² ±10% in finished state except fire retardant weight. - Tensile strength: ISO 13934-1, warp and weft 300 N minimum. - Tear strength: ISO 9073-4, warp and weft 20 N minimum. - Colour: yellow, beige, cream or sand. - Fire retardant: pass the CPAI-84, 1980, chapter 6. (Should pass the test). - User's health safety: The materials and additives used in the kit should be non-toxic for human use, free from asbestos and other toxic products, according to the EC regulations.

Technical Specifications

2. SPECIFICATIONS FOR THE WINTERIZATION LINER

Denomination and norms	Required minimum values
3. Design	The inner liner must be made from one fold of breathable, rot-proof and fire retardant canvas in order to hang inside the inner tent, to cover the roof and the four walls down to ground level, plus 40 cm on the ground if used with the Standard Family Tent.
4. Dimensions / Size	All dimensions to fit the inner dimensions of the standard Family Tent. Centre height: 2.5 m, width: 3.8 m, wall height: 1.65 m, base length: 3.8 m.
5. Packaging	If supplied individually, packed in a strong waterproof plastic bag. Indicate product name on the outer package with indelible marking. If supplied within the winterisation kit, no individual package is required.
6. Features	<ul style="list-style-type: none"> - The inner liner has 24 pairs of canvas strings to attach to the original loops of the inner tent. - Both ends are made in a curtain shape that opens in the middle with a 600 mm-overlap. - Inside the inner liner, in the center, five loops allow attaching the inner partition. - One inner partition is supplied with the inner liner, made with the same fire retardant canvas as the inner liner. This partition is of the same design as the original partition of the tent. - At the ridge, four openings of 150 mm closing with Velcro allow accessing to the three hooks and to the pocket of the tent. These are positioned at the level of the 2nd, 3rd, 6th and 7th ridge attachment points. - The inner liner has 4 windows, of reduced size compared to the long windows of the tent, and closing with zipper. These windows are 300 x 800 mm, horizontally oriented, with 2 round corners at the top, the flaps opening downwards (one zipper per window runs on left, top and right sides). These windows allow accessing the original windows of the tent, thus are placed in the centre of each section of the tent sides, in front of the actual inner tent windows. - There are four pockets of 400 x 300 mm, one under each window, for storage of goods. - At one end, the inner liner has a patch made of fire proof material of 450 x 800 mm, vertically oriented, lower edge positioned at 300 mm above the ground.

3. SPECIFICATIONS FOR THE SLEEVE, HEAT RESISTANT, FOR THE FAMILY TENT HEATER FUME PIPE

Denomination and norms	Required minimum values
1. General Information	<p>Protection for the use of a stove/heater in the standard Family Tent. This protection for tent can be used only with tents originally equipped with the standard chimney patch and flap as described in the Family Tent specification or in the Frame Family Tent specification.</p> <p>This protection fits the tent on the Velcro that is originally used for the chimney flap. It stops the draughts and the rain from passing between the pipe and the fireproof canvas at the place where the pipe is passing through the tent wall.</p>

Technical Specifications

3. SPECIFICATIONS FOR THE SLEEVE, HEAT RESISTANT, FOR THE FAMILY TENT HEATER FUME PIPE

Denomination and norms	Required minimum values
2. Material	<ul style="list-style-type: none"> - Material: 100% fire-proof. It is tear-proof and waterproof soft canvas. The lacing string is fire-proof with a tensile strength that allows a strong attachment around the pipe. - Fire resistant to CPAI84/6 at conditions of origin and after leaching. - Tear resistance under ISO9073-4: minimum 40 N. - Waterproof under ISO 811: minimum 20 hPa (20 cm). - User's health safety: The materials and additives used in the kit should be non-toxic for human use, free from asbestos and other toxic products, according to the EC regulations.
3. Design	<p>The flue-pipe sleeve is a spare part made of fireproof canvas. It has a pyramid shape. At the end of the tubular extension, there is a fireproof string to attach around the pipe. The base of the pyramid has a Velcro to grip to the Velcro of the tent chimney outer flap. The two types of Velcro are available on the sleeve (hooks and loops); sewn next to each other, to make sure it will work in all cases.</p>
4. Dimensions / Size	<p>It has a pyramid shape, with a base of 350 x 700 mm, that fits on the Velcro system of the chimney flap of the Family Tent. The height of the pyramid part is 400 mm, with a hole of 150 mm diameter at the top.</p> <p>The top of the pyramid has a tubular extension of 150 mm length .</p>
5. Packaging	<p>If supplied separately, the flue-pipe sleeve is packed into a strong plastic bag. Indicate product name on the outer package with indelible marking.</p> <p>No. of sleeve: one per Family Tent (winterization package)</p> <p>If supplied within the Winterisation Kit, the flue-pipe sleeve is not individually packed.</p>

4. SPECIFICATIONS FOR THE INSULATING FLOOR MAT

Denomination and norms	Required minimum values
1. General Information	<p>Insulating mat for use as a protection against the cold from the ground in the standard Family Tent, or in any other floor in cold situation. This insulating mat is opened at one end to allow filling with local material to form a basic mattress.</p>

Technical Specifications

4. SPECIFICATIONS FOR THE INSULATING FLOOR MAT

Denomination and norms	Required minimum values
2. Material	<p>First layer, plastic mat:</p> <ul style="list-style-type: none"> - Plastic floor mat made in a tightly woven twill structure, double thickness (2/1, 3/1, 2/2, 3/2). - Virgin polypropylene (PP) multifilament 500 deniers in warp and virgin polypropylene (PP) hollow tube in weft, not containing any filler. - Fire retardant to pass CPAI84/5. - Tight woven, with minimum 1000 tubes per meter length. - Weight: 500 g/m² minimum. - Colour: any colour. - No. of mats: 5 pieces per one unit of Family Tent. <p>Second layer, aluminized canvas:</p> <ul style="list-style-type: none"> - Strong synthetic canvas with durable aluminium coating, soft and noiseless, fire retardant to pass CPAI84/5. <p>Third layer, fleece blanket:</p> <ul style="list-style-type: none"> - Refer to our standard synthetic blanket specification, medium thermal, PLUS fire retardant to pass CPAI84/5. <p>User's health safety: The materials and additives used in the kit should be non-toxic for human use, free from asbestos and other toxic products, according to the EC regulations.</p>
3. Design	<p>The insulating mat is an assembling of three layers:</p> <ul style="list-style-type: none"> - First layer, on the ground-side, a plastic mat, double weave. - Second layer, an aluminized canvas, aluminium face upward. - Third layer, on upper-side, a fleece blanket. <p>The assembling is done with a heavy-duty ribbon strongly stitched all around the mat. The second and third layer are also stitched together, lengthwise in the center, and crosswise in 3 lines equally spaced.</p> <p>At one end, the mat is opened on the whole width, to allow accessing in between the plastic mat and the aluminized canvas. This opening closes with a fold like a pillowcase closing system.</p> <p>A pair of strong laces is sewn to the mat at one end in the center, to secure the mat when rolled up for transport or storage.</p>
4. Dimensions / Size	1.8 x 0.9 m
5. Packaging	<p>If supplied individually, the mat is rolled and wrapped in a protective outer sheet, such as PP woven canvas, and strapped. Indicate product name on the outer package with indelible marking.</p> <p>If supplied within the Winterization Kit, no individual packing is required.</p>



UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

SEMI-COLLAPSIBLE JERRY CAN 10L
(water container)

UNHCR Item No 00096

Item Application Sample



General Information and Description

The 10 L capacity Semi-Collapsible Jerry Can made of food grade LDPE is a container for general household use for carrying and storing drinking water.

Technical Specifications

Capacity: 10 L.

Weight: 190 – 230 g.

Material: manufactured of food grade LDPE should not contain toxic elements according to EN 1186-3-9 standard. The jerry can must stand by itself, even when filled with less than 1/4 of its maximum volume.

Operating temperature: can withstand temperatures from -20 °C to + 50 °C.

Average thickness: 0.6 mm and minimum corner thickness 0.5 mm.

Fitted with: a built-in carrying handle with minimum 9 cm length and 3 cm height, with no sharp edges and a screwable cap for filling and discharge, linked to the container by polyamide string with diameter of min.1 mm and approximately 120 mm length. The inner diameter of the cap is approx. 35 mm.

Impact Resistance / Drop Test: the Semi-Collapsible Jerry Can must be impact resistant on a hard surface when filled with maximum volume of water (10 liters) at 20 °C. The complete drop test consists of 10 consecutive drops from 2,5 m high. The jerry can must be elevated, so that the lowest point is at 2,5 m from the ground. Test result is expressed as a product ranking according to the number of drops passed without damages or leakage. To be accepted, the jerry can must resist to minimum 3 drops. (Please refer to Product Performance and Quality Control graphic).

Packing

50 jerry cans are packed in export quality cartons of 54 x 33 x 42 cm. However different packing methods may be accepted in order to maximize loadability in pallets and containers. Alternative carton size of 55 x 36 x 44 cm is also acceptable.

Pieces per carton: 50.

Weight of packing unit: 12 kg.

Weight and Volume

Gross weight per piece: 190 to 230 g.

Gross weight per box: 9.5 kg to 11.50 kg (+ the weight of the package).

Optimal Shipping / Container Information

18.500 pieces per 20' DC container (without pallets).

38.500 pieces per 40' DC container (without pallets).

46.200 pieces per 40' HC container (without pallets).

11.200 pieces per 20' DC container (with pallets).

24.000 pieces per 40' DC container (with pallets).

24.000 pieces per 40' HC container (with pallets)

CRI Pallet Details

Fumigated as per IPSM 15 standard. Dimensions (L x W x H): 1150 (+1 cm / - 3 cm tolerance) x 770 (+/- 1 cm tolerance) x 144 mm. Maximum height of the packed pallet: 115 cm. Pallets should be shrink-wrapped and strapped. The palletized goods must not exceed the length and width of the pallet. For further information please refer to section IV Pallet Information.

Manufacturer Marking

Every unit should include the manufacturer's identification mould, at 5 cm above the bottom with letters not higher than 1.5 cm and on the opposite side of the UNHCR logo or on the side distant from UNHCR logo. The marking should include the manufacturer's name, unique reference batch number and date of manufacturing. No company logo should be included with the manufacturer's marking.

Expected Life Span and Shelf Life

It is expected that the collapsible jerry can will last for six months of use under tropical conditions. The product should have a shelf life of 3 years.

Printing of UNHCR Logo

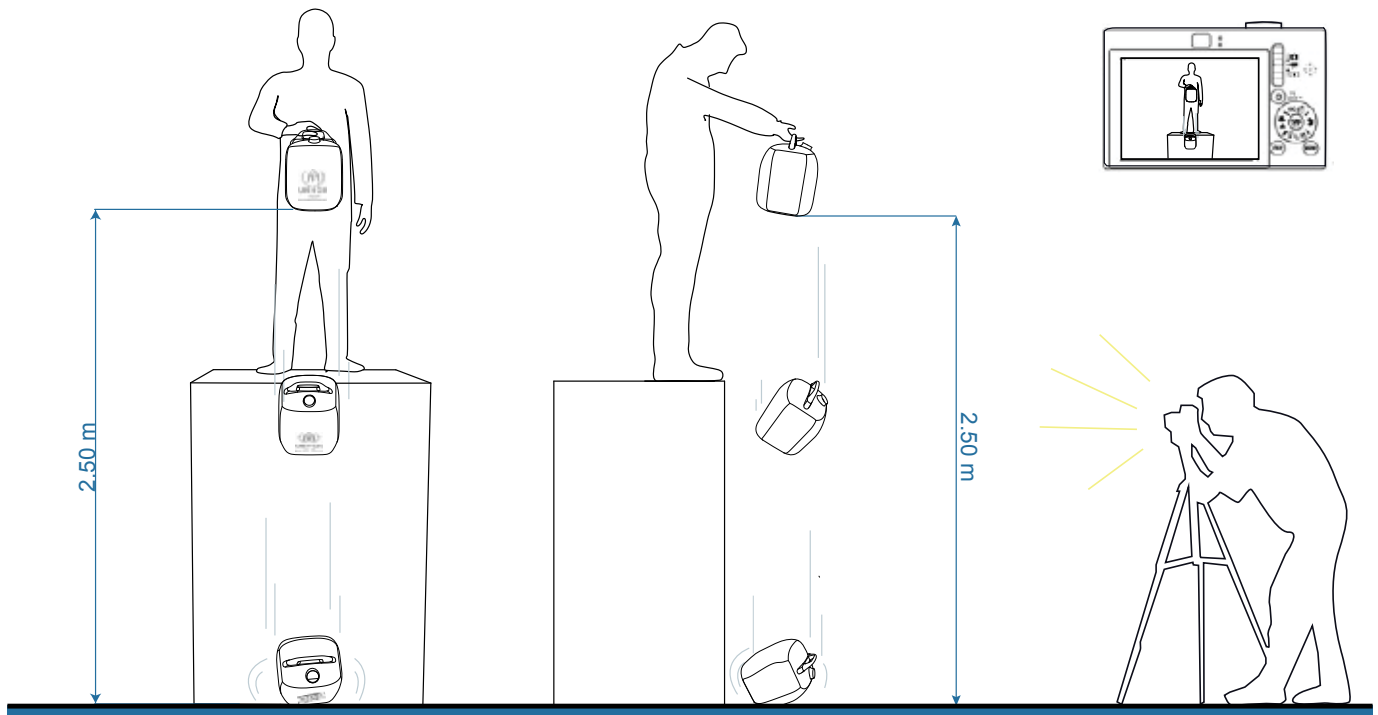
Embossed on minimum one side with UNHCR visibility logo, as per the included graphic reference.

Note: last updated, June 2015

Product Performance and Quality Control

Impact Resistance / Drop Test:

The Semi-Collapsible Jerry Can must be impact resistant on a hard surface when filled with maximum volume of water (10 liters) at 20°C. The complete drop test consists of 10 consecutive drops from 2.5 m high. The jerry can must be elevated, so that the lowest point is at 2.5 m from the ground. Test result is expressed as a product ranking according to the number of drops passed without damages or leakage. To be accepted, the jerry can must resist to minimum 3 drops.



Packing, UNHCR Logo, and Shipping Marking Reference

Sea/Air Transport Carton:

- For palletizing and transportation, the Jerry Cans should be packed and arranged in a way that maximise loadability on boxes, pallets, and containers.
- Every 50 Semi-Collapsible Jerry Can (10 L) should be packed into a Sea/Air transport carton.
- The UNHCR visibility logo will need to be applied on 5 sides (excluding the bottom of the carton).
- The main objective is to maximize the UNHCR visibility logo and to include a separated space for the description of the product and shipping markings. For this purpose, **the UNHCR visibility logo should occupy a minimum of 60% of the surface space for each side where it is applied.**

Important: Priority should be given for the UNHCR visibility logo to be always visible and in a straight and readable position, once the cartons are palletized. In the event that the cartons are wrapped with other materials for better protection, including plastic materials or others, the UNHCR visibility logo should still be always visible during the transport. Taking that into account, UNHCR visibility logo should be applied on those wrapping materials in case of a lack of visibility.

Integrity and design of UNHCR vertical and horizontal visibility logos:

While the integrity of the UNHCR visibility logo (hand symbol, acronym and the descriptive phrase "The UN Refugee Agency", always in English) should be respected, the framed space given for the shipping markings provides flexibility (if necessary) for the preparation of stickers or plastic pockets that will facilitate the marking of the cargo that is shipped initially to global warehouses (eg. Dubai, Copenhagen) and later is shipped to other destinations. Proportionality rules with regard to the size of UNHCR logo, hand symbol, acronym and descriptive phrase "The UN Refugee agency" should be applied following the "X" and "Y" proportionality to avoid distortions on the UNHCR logo and letterings (see graphics below). In the Sea/Air Transport Carton the UNHCR visibility logo should be printed in blue indelible ink for maximum visibility, using typeface and color as described below.

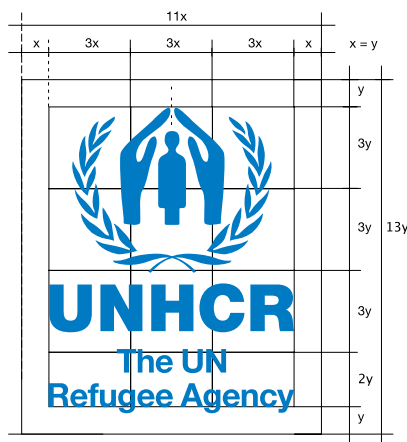
Typeface (Font), colour specifications for printing:

Font: Helvetica Bold. Colour specification: Pantone Blue 300 or quadrichrome (CMYK). C = 100%, M = 45%, Y = 0%, K = 0%.

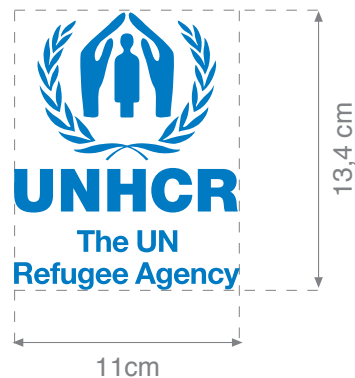
Graphic Reference



UNHCR Logo Application Reference



Logo Application Reference



Logo Application Size



UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

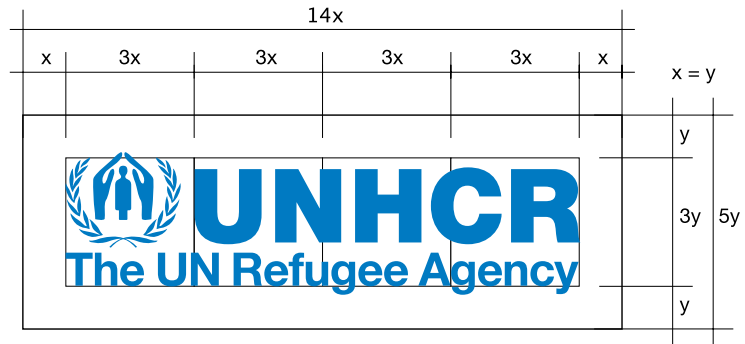
SEMI-COLLAPSIBLE JERRY CAN 10L
(water container)

UNHCR Item No 00096

UNHCR Logo Application Reference



UNHCR Vertical Visibility logo

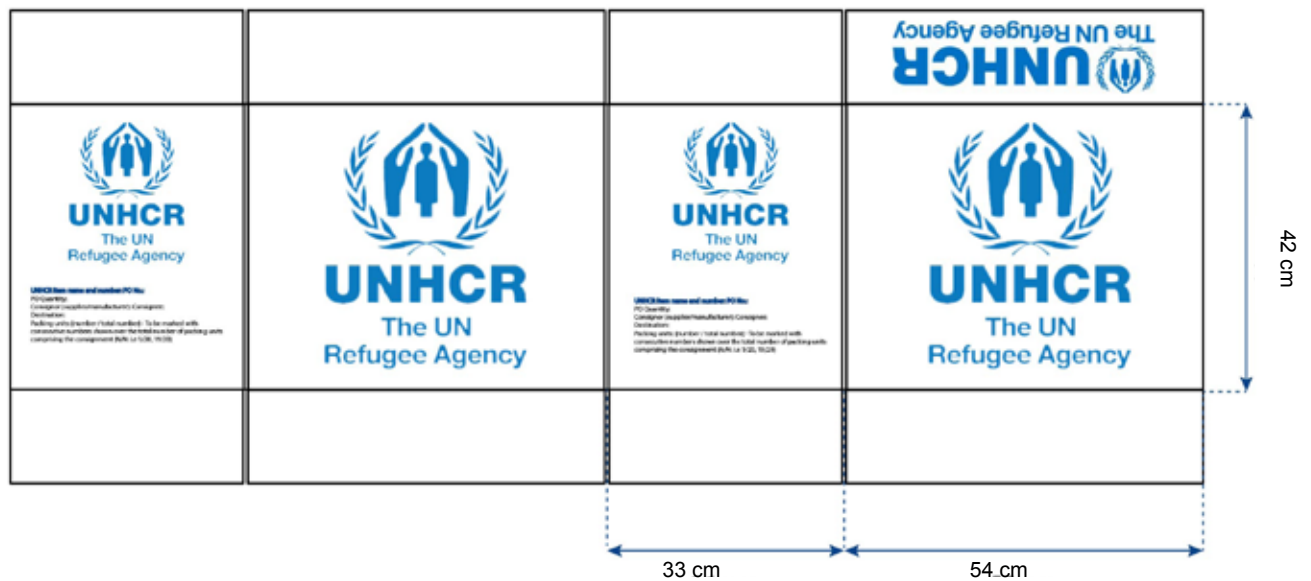


UNHCR Horizontal Visibility logo

Logo and Shipping Markings on Jerry Can Boxes

The front and back of the Sea/Air Transport Carton (the largest surface sides of the carton) should include only the UNHCR visibility vertical logo. The 2 other opposite sides should include the UNHCR visibility vertical logo with the shipping marking information area (below the logo). The top side should include the horizontal visibility logo in one of the closures and the content list in the other closure.

Opened Box



Logo and Shipping Marking Application Reference

Logo and Shipping Marking for SEMI-COLLAPSIBLE JERRY CAN 10 L Packing



A. Application of the logo and markings for the front and back sides of the Sea/Air Transport Carton:

In the front and the back sides of the Sea/Air Transport Carton, the vertical logo is to be placed centrally, occupying a minimum of 60% surface space and without any image distortions as per (graphic 1).

In case of a rectangular shape carton, the UNHCR horizontal visibility logo should be used instead of the UNHCR vertical visibility logo, having a better usage of the surface space (graphic 1.2).



(Graphic 1)



(Graphic 1.2)

Technical Drawing





UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

SEMI-COLLAPSIBLE JERRY CAN 10L
(water container)

UNHCR Item No 00096

Logo and Shipping Marking Application Reference

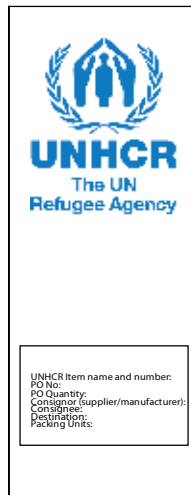
B. Application of the logo in the 2 other opposite sides of the Sea/Air Transport Carton:

In the 2 other opposite sides of the Sea/Air Transport Carton, the vertical logo and shipping marking information are to be placed centrally, occupying a minimum of 60% surface space (45% for the UNHCR visibility logo and 15% for the shipping markings) and without any image distortions, as per (graphic 2).

In case of a rectangular shape carton, the UNHCR horizontal visibility logo should be used instead of the UNHCR vertical visibility logo, having a better usage of the surface space (graphic 2.2)

The information to be placed in the shipping marking box is as follows:

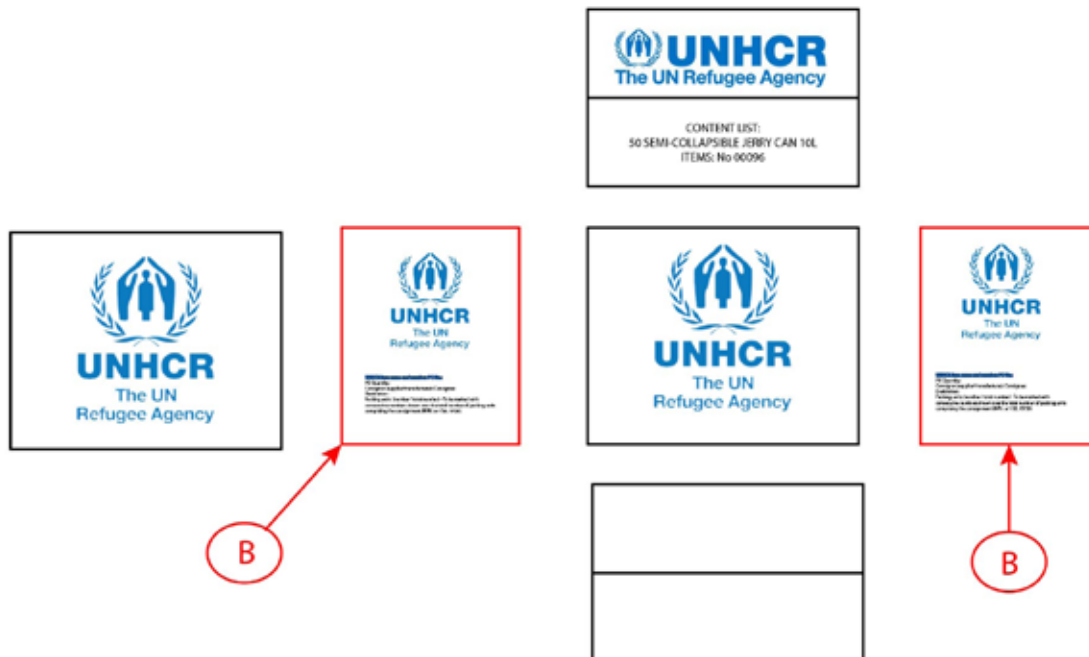
UNHCR Item name and number:
PO No.:
PO Quantity:
Consignor (supplier/manufacturer):
Consignee:
Destination:
Packing units: {number / total number} -
To be marked with consecutive numbers
shown over the total number of packing
units comprising the consignment (N/N: i.e
1/20, 19/20)



Important: In order to respect the integrity of the logo, the shipping marking information area should be visually separated from the lower part of the visibility logo and framed with the same indelible ink as the details information as per the graphic 2.

(graphic 2)

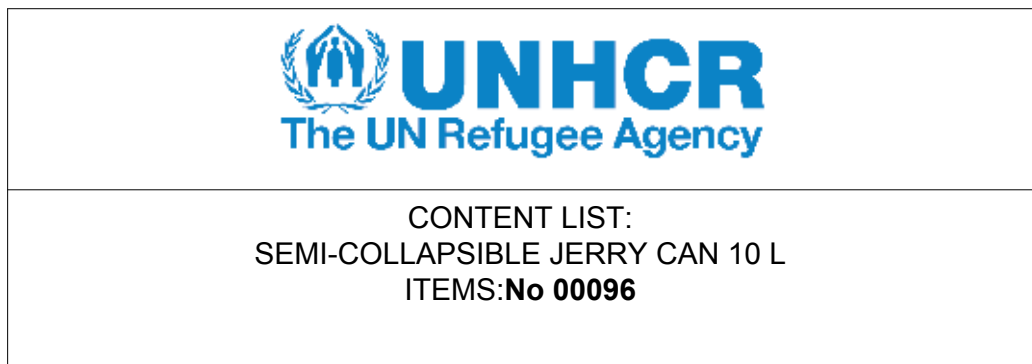
Technical Drawing



Logo and Shipping Marking Application Reference

C. Application of the logo and marking in the top side of the Sea/Air Transport Carton:

In the top side of the Sea/Air Transport Carton, the UNHCR horizontal logo is to be placed centrally in one of the closures, occupying a minimum of 60% surface space and without any image distortions.



(graphic 3)

Technical Drawing



Item Application Sample



General Information and Description

Cooking and serving utensils suitable for a family of 5 people. All items should be made of stainless steel in line with minimum quality standards included in the 'Material Specifications' as applicable. Alternatively, only cooking pots and frying pan can be made of aluminium as per Material specifications.

Kitchen Set Composition

Each set includes the following items:

- 01 x 7 litres, stainless steel or aluminium cooking pot
- 01 x 2.5 litres, stainless steel frying pan (used as lid for 7L cooking pot)
- 01 x Detachable handle for the 2.5 L frying pan
- 01 x 5 litres, stainless steel or aluminium cooking pot with lid
- 05 x 1 litre, stainless steel bowl
- 05 x Stainless steel plates
- 05 x Stainless steel or plastic cups
- 05 x Stainless steel table-spoons
- 05 x Stainless steel table-forks
- 05 x Stainless steel table-knives
- 01 x Kitchen knife with stainless steel blade
- 01 x Wooden serving spoon
- 02 x Stainless steel serving spoon
- 01 x Stainless steel serving ladle
- 01 x Stainless steel scouring pad

Design of the Items

Manufacturers and suppliers are invited to provide items with designs that improve the performance of the material, considering different types of design bends/veins on the pots, lids, bowls, plates, spoons, forks, knives and cups.

Estimated Weight and Volume

Gross volume per kitchen set: Approx. 0.015 m³
Gross volume per export carton (with 01 set): 6.8 kg approx.

Expected Life Span and Shelf Life

It is expected that the kitchen set will last at a minimum of 2 years while used and to have a shelf life of 10 years. The cardboard packaging has a shelf life of 4 years.

Material Specifications

The specifications below indicate the minimum quality standards of stainless steel and aluminium materials.

1) Stainless Steel:

For **Tableware** (plates, cups, bowls, forks, spoons and knives):

- ISO type 1.4016 (American grade 430), or
- ISO type 1.4301 (American grade 304).

For the **Cookware** (cooking pots and pans):

- ISO type 1.4016 (American grade 430), or
- ISO type 1.4301 (American grade 304).

- Food grade to be certified in conformity with EU regulations No. 1935/2004, and with Information Notice No.2004-64. Suitability of materials to be in contact with foodstuffs.
- Applicable standards as per EN 10088-1.

Acceptability limits:

- Minimum chromium content: 16 %
- Possible added elements: Ta, Nb, Zr, Mo, Ti, Al, Cu with the following maximum contents:
 - 1 p 100 for Ta, Nb, Zr
 - 4 p 100 for Mo, Ti, Al, Cu

2) Aluminium as an alternative material for cooking pots:

- Aluminium type Al 99,0 or above as per publication ISO 209-1 (minimum 99% aluminium).
- Other elements as per EN 602.
- Publications with applicable standards:
 - ISO 209-1: *Wrought aluminium and aluminium alloys - Alloys* - Chemical compositions and forms of products - Part 1: Chemical composition.
 - ISO 602: *Aluminium and aluminium alloys - Wrought products* - Chemical composition of semi products used for the fabrication of articles for use in contact with food.

Alternative plastic cup:

- Made of food grade according to EN 1186-3-9 standard. Strong and durable quality for a long-life span.

Finishing: Must be washed and polished and should not contain any residuals, dust and must be clean, including cutlery. Glossy finish is acceptable. **Surface finish:** Max RA 0.5 micrometer measured under ISO 4287.

The manufacturer of the kitchen set ensures that if the raw material used radioactive content it must be below the values provided in tables 1 and 2 of the IAEA Safety Standards Series Safety Guide No RS 601.7 "APPLICATION OF THE CONCEPTS OF EXCLUSION, EXEMPTION AND CLEARANCE". The supplier certifies that the items manufactured were checked for radiation prior to shipment and were found within the allowed level of radioactivity. A certificate will have to be issued by the supplier.

Technical Specifications and Reference Pictures per Item

REFERENCE PICTURES: The included pictures should be used as a reference only and not as specific models for each item. Manufacturer's are invited to offer models that maximize the durability and performance of the items and respect the technical specifications.

Item 1: 1 COOKING POT, 7 L (the frying pan should serve as lid)

- Capacity:** 7 Litres min. total inner volume.
- Material:** Stainless steel or aluminium.
- Diameter:** Min. 25 cm, max 28 cm internal diameter.
- Thickness:** Min. 0.8 mm in the center of the bottom and min. 0.6 mm at 20 mm from the top of the wall (aluminium min. 1.75 mm).
- Handles:** 2 stainless steel handles, attached with strong rivets, rivets must not leak, bent upward to allow a hanging bar of 10 mm to pass through (aluminium handles for aluminium pots)
- Lid:** Handles to resist to 20 kg load in the normal usage position. Rivets must be leaking-proof.
- Finish:** The 2.5 L frying pan should be designed to fit properly into the 7 L cooking pot.
No sharp edges, food grade surface finish.



Item 2: 1 FRYING PAN, 2.5 L (used as lid for 7 L cooking pot)

- Capacity:** Min. 2.5 Litres total inner volume.
- Material:** Stainless steel or aluminium.
- Diameter:** Adapted to serve as a lid for the 7 L cooking pot.
- Thickness:** Min. 0.8 mm in the center of the bottom.
- Handle:** 1 detachable stainless steel handle. Handle to resist 10 kg load in a normal usage position.
- Finish:** No sharp edges, food grade surface finish.



Item 3: 1 x COOKING POT, 5 L, with Lid

- Capacity:** Min. 5 Litres total inner volume.
- Material:** Stainless steel or aluminium.
- Diameter:** Min. 22 cm, max. 24.5 cm internal diameter.
- Thickness:** Min. 0.8 mm in the center of the bottom and min. 0.6 mm at 20 mm from the top of the wall (aluminium min. 1.75 mm).
- Handles:** 2 stainless steel handles, attached with strong rivets, rivets must not leak, bent upward to allow a hanging bar of 10 mm to pass through (aluminium handles acceptable for aluminium pot)
- Lid:** Handles to resist 16 kg load in the normal usage position.
- Finish:** Min. 0.6 mm (aluminium min. 1 mm) with strong and durable handle/knob.
Handles to resist to 2kg load in the normal usage position.
No sharp edges, food grade surface finish.



Item 4: 5 x BOWL, 1 L, stainless steel

- Capacity:** Min. 1 Litre.
- Material:** Stainless steel.
- Height:** 5 to 7 cm.
- Thickness:** Min. 0.5 mm in the center of the bottom.
- Finish:** No sharp edges, food grade surface finish.



Item 5: 5 x PLATE, 0.75 L, stainless steel

- Capacity:** Min. 0.75 Litres.
- Material:** Stainless steel.
- Thickness:** Min. 0.5 mm in the center of the bottom.
- Diameter:** 24 to 25 cm
- Finish:** No sharp edges, food grade surface finish.



Technical Specifications and Reference Pictures per Item

Item 6: 5 x CUP, 0.3 L, stainless steel or plastic (blue or white colour preferred)

Capacity: Min. 0.3 Litres.
Material: Stainless steel or unbreakable food grade virgin plastic.
Thickness: Min. 0.5 mm in the bottom and 0.4 mm at 20 mm from the top of the wall. (for stainless steel)
Handle: Securely welded. Handle to resist to 1 kg pulling.
Finish: No sharp edges, food grade surface finish.



Item 7: 5 x SPOON, table, 10 ml, stainless steel

Capacity: Min. 10 ml.
Material: One-piece stainless steel, solid..
Resistance: Must resist a weight of 4kg, applied at the middle of the item.
Length: Min. 17 cm.
Thickness: Min. 1 mm in the center of the scoop.
Finish: No sharp edges, food grade surface finish.



Item 8: 5 x FORK, table, 17 cm, stainless steel

Material: One-piece stainless steel, solid.
Resistance: Must resist a weight of 4kg, applied at the middle of the item and the distance between the point where the tines rest on their support and the point where the handle rest.
Length: Min. 17 cm.
Thickness: Min. 1.5 mm at the back of the tines.
Finish: No sharp edges, food grade surface finish.



Item 9: 5 x KNIFE, table, 17 cm, stainless steel

Material: One-piece stainless steel, solid.
Resistance: Must resist a weight of 4kg, applied at the middle of the item.
Length: Min. 17 cm.
Thickness: Back of the blade: min. 1 mm, measured at the middle of the blade.
Handle: Min. 1.5 mm, measured at the middle of the handle.
Finish: No sharp edges apart from the cutting edge, blunt end (rounded, not sharp), food grade surface finish.



Item 10: 1 x KNIFE, kitchen, 15 cm, stainless steel blade

Material: Stainless steel blade.
Resistance: Must resist a weight of 4kg, applied at the middle of the item.
Handle: Wood or plastic with triple rivet or strong durable fixation.
Thickness: Blade min. 1.5 mm, measured at the middle of the blade.
Length: Min. 15 cm usable blade.
Finish: No sharp edges apart from the cutting edge, food grade surface finish.



Item 11: 1 x SPOON, wooden, stirring, 30 cm

Material: Hard wood.
Thickness: 10 mm diameter min. for the handle.
Length: Min. 30 cm.
Finish: No sharp edges, smooth finish, no chips, no knots, food grade surface finish.



Item 12: 2 x SERVING SPOONS, 35 ml, stainless steel

Material: One-piece stainless steel, solid.
Resistance: Must resist a weight of 4kg, applied at the middle of the item.
Capacity: Min. 35 ml.
Length: Min. 30 cm.
Thickness: Min. 1 mm in the center of the scoop.
Finish: No sharp edges, food grade surface finish.



Item 13: 1 x SERVING LADLE, 100ml, stainless steel

Material: Stainless steel.
Resistance: Must resist a weight of 4kg, applied at the middle of the item.
Capacity: 100ml minimum
Length: Min. 30 cm.
Thickness: Min. 1 mm in the center of the scoop.
Handle: Securely welded, or in one piece. Handle to resist to 1kg pulling. Flat handle with a hole.
Finish: No sharp edges, food grade surface finish.

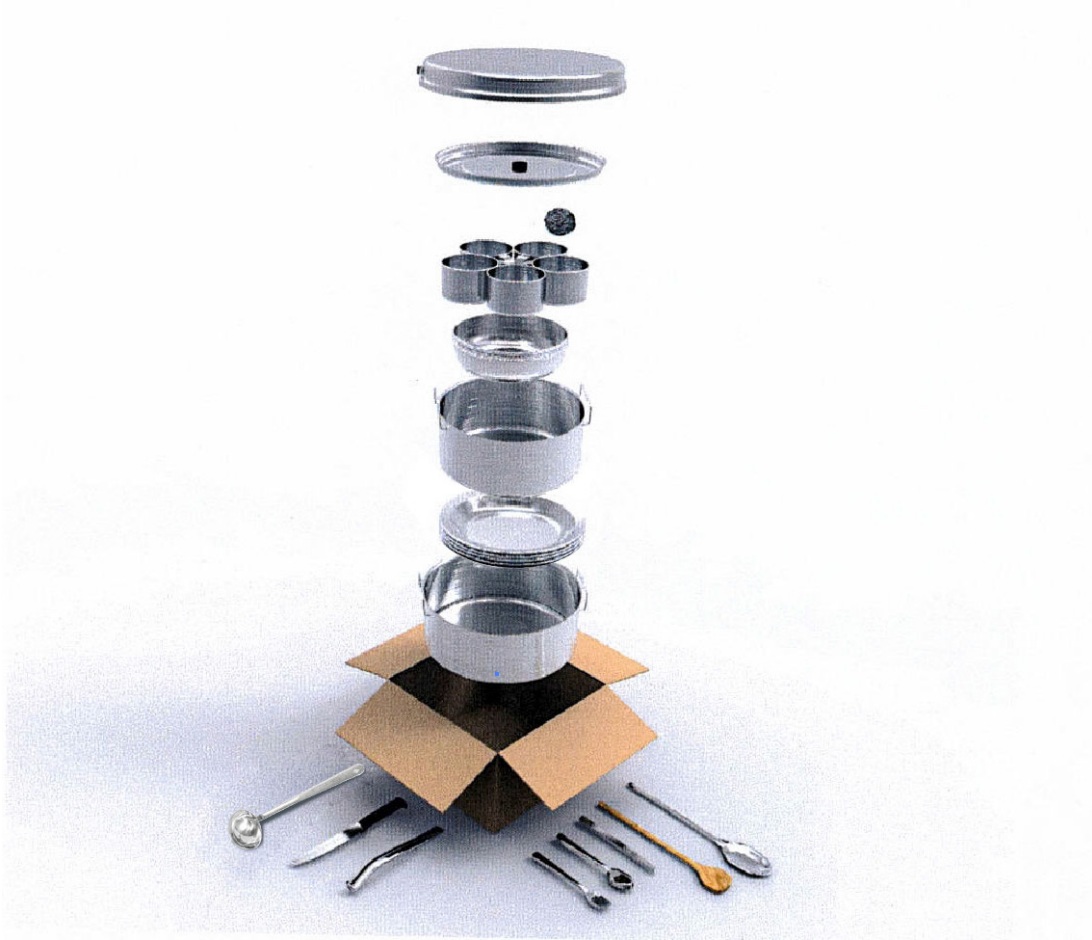


Item 14: 1 x SCOURING PAD

Material: Stainless steel wire scouring pad.
Weight: Minimum 20 g.



Exploded View



Reference Picture





UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

KITCHEN SET - TYPE B

UNHCR Item No 06933

Packing, UNHCR Logo and Shipping Marking Reference

Kitchen sets are packed into Individual Packing. Kitchen Set Carton boxes have to maximize loadability in pallets and containers. The ideal box dimensions are: L 30 x W 30 x H 19 cm. Alternative packing in 30 x 30 x 25 cm box could be accepted, although the overall transportation cost will be higher.

Individual Packing for Kitchen Sets: Kitchen Sets should be packed individually in a carton of approximate L 30 x W 30 x H 19 cm +/- 2%.

Important: Priority should be given for the UNHCR visibility logo to be always visible and in a straight and readable position, once the cartons are palletized. In the event that the cartons are wrapped with other materials for better protection, including plastic materials or others, the UNHCR visibility logo should still be always visible during the transport. Taking that into account, UNHCR visibility logo should be applied on those wrapping materials in case of a lack of visibility.

Integrity and design of UNHCR vertical and horizontal visibility logos: While the integrity of the UNHCR visibility logo (hand symbol, acronym and the descriptive phrase "The UN Refugee Agency", always in English) should be respected, the framed space given for the shipping markings provides flexibility (if necessary) for the preparation of stickers or plastic pockets that will facilitate the marking of the cargo that is shipped initially to global warehouses (eg. Dubai, Copenhagen) and later is shipped to other destinations. Proportionality rules with regard to the size of UNHCR logo, hand symbol, acronym and descriptive phrase "The UN Refugee agency" should be applied following the "X" and "Y" proportionality to avoid distortions on the UNHCR logo and letterings (see graphics reference on the next page).

The UNHCR visibility logo should be printed in blue indelible ink for maximum visibility, using typeface and color as described below:

Typeface (Font), Colour specifications for printing:

Font: Helvetica Bold. Colour specification: Pantone Blue 300 or quadrichrome (CMYK). C = 100%, M = 45%, Y = 0%, K = 0%.

Packing Details

Type:	Carton box. In order to maximize loadability in pallets and containers, the ideal box dimensions are: L 30 x W 30 x H 19 cm +/- 2%. Alternative packing in 30 x 30 x 25 cm box could be accepted although the overall transportation cost will be higher.
Material:	Double-corrugated, 5 plies, export-quality cardboard.
Strength:	Withstands 4 m - high stacking for more than 48 h, and 10 handlings. The final package should resist without any damage to a weight or a pressure of 140 kg applied on a strong rigid board on top of the box.
Seal:	Tape on every joint of the carton, plus 4 plastic 10 mm straps
Name:	KITCHEN SET, type "B".
Content:	Name and content list to be printed on the top of the box.
Alternative:	Food grade plastic packaging (according to EN 1186-3-9) with a cover, that can be re-used for food or water storage is an advantage.

Manufacturer Marking: Every box should include inside a tag with the manufacturer's identifications. The tag should be no larger than half of an A4 page and it must include the manufacturer's name, unique reference batch number and the date of manufacture. No company logo should be included with the manufacturer's marking. Suppliers are required to etch the supplier and factory marking on both the 5 L and 7 L pots.

Carton Box Technical Specifications:

Outer White Liner (KRAFT) 180 GSM: 40 BS (Breaking Strength)
Fluting 140 GSM: 20 BS (Breaking Strength)
Middle Recycled Liner 140/150 GSM: 20 BS (Breaking Strength)
Fluting 140 GSM: 20 BS (Breaking Strength)
Inner Recycled Test Liner 140/150 GSM: 20 BS (Breaking Strength)

CRI Pallet Details

Fumigated as per IPSM 15 standard. Dimensions (L x W x H): 1150 x 770 x 144 mm. Maximum height of the packed pallet: 115 cm. Pallets should be shrink-wrapped and strapped. The palletized goods must not exceed the length and width of the pallet. For further information please refer to section IV Pallet Information.

Optimal Shipping / Container Information

3400 Kitchen sets per 40' DC (without pallet)
3696 Kitchen sets per 40' HC (without pallet)

1530 Kitchen sets per 20' DC (with pallets)
3060 Kitchen set per 40' DC (with pallets)
3060 Kitchen sets per 40' HC (with pallets)



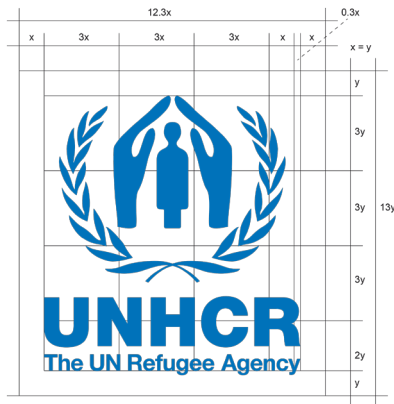
UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

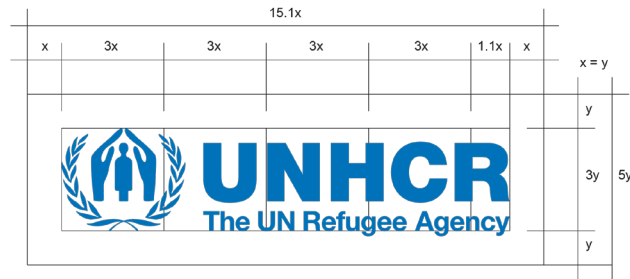
KITCHEN SET - TYPE B

UNHCR Item No 06933

UNHCR Logo Application Reference



UNHCR Vertical Visibility logo

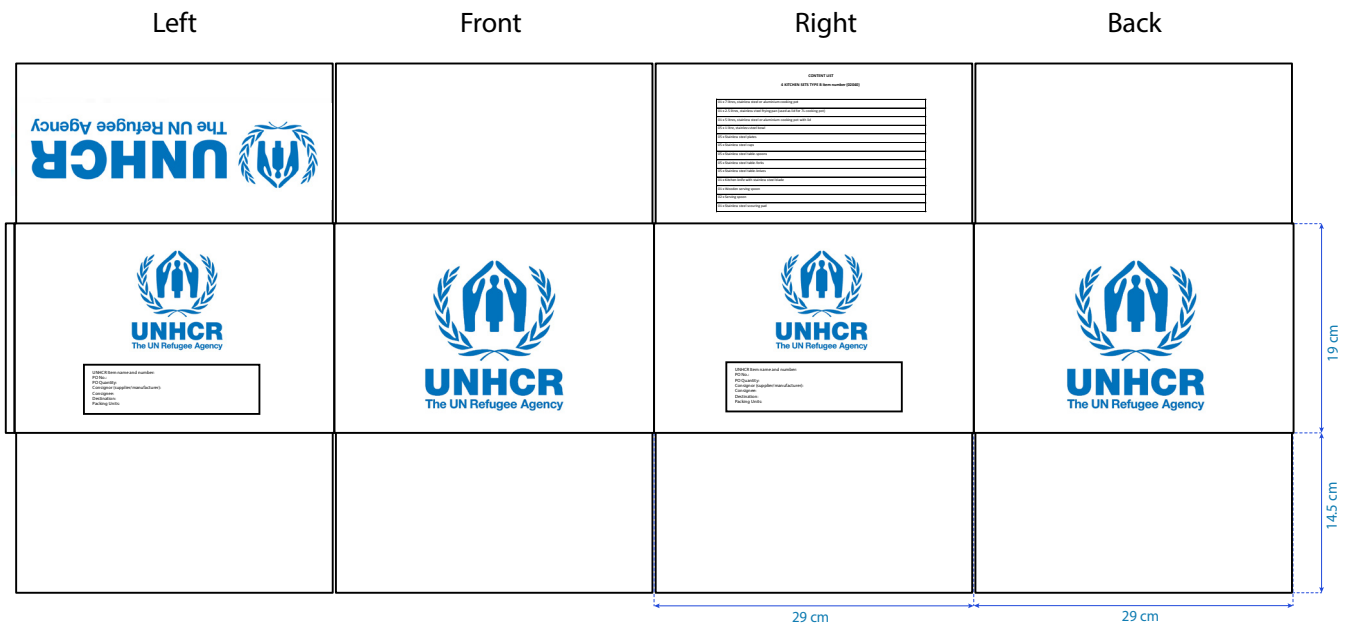


UNHCR Horizontal Visibility logo

Logo and Shipping Markings on Individual Boxes

The front and back of individual packing (the largest surface sides of the carton) should include only the UNHCR visibility vertical logo. The 2 other opposite sides should include the UNHCR visibility vertical logo with the shipping marking information area (below the logo). The top side should include the horizontal visibility logo in one of the closures and the content list in the other closure.

Opened Box





UNHCR

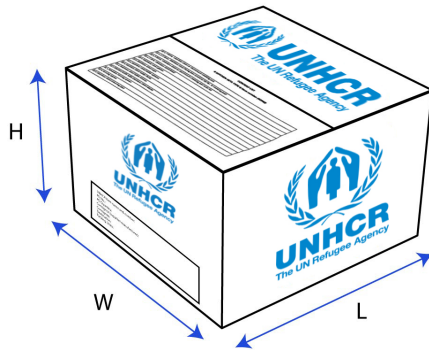
United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

KITCHEN SET - TYPE B

UNHCR Item No 06933

Logo and Shipping Marking on Individual Boxes

Logo and Shipping Marking for The Kitchen Set Packing
Box Size: L 30 x W 30 x H 19 cm



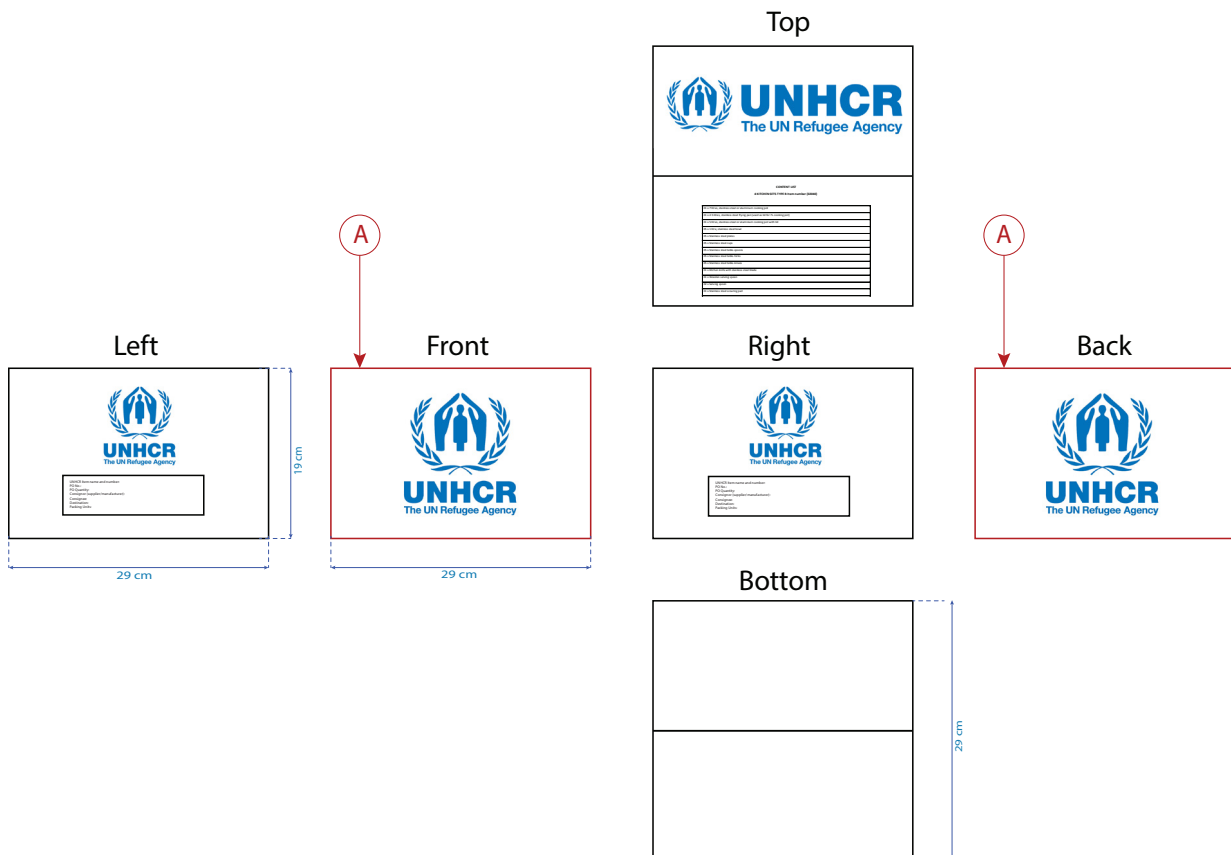
A. Application of the logo and markings for the front and back sides of the Individual Packing:

In the front and back sides of Individual Packing, the vertical logo is to be placed centrally, occupying a minimum of 60% surface space and without any image distortions, as per graphic 1.



Graphic 1

Technical Drawing





UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

KITCHEN SET - TYPE B

UNHCR Item No 06933

Logo and Shipping Marking on Individual Boxes

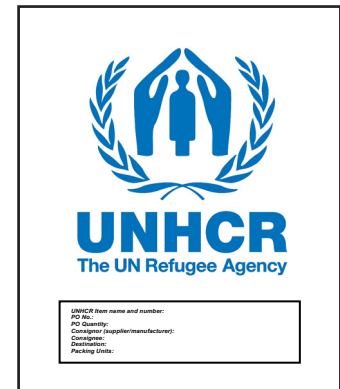
B. Application of the logo in the 2 other opposite sides of Individual Packing:

In the 2 other opposite sides of Individual Packing the vertical logo and shipping marking information are to be placed centrally, occupying a minimum of 60% surface space (45% for the UNHCR visibility logo and 15% for the shipping markings) and without any image distortions.

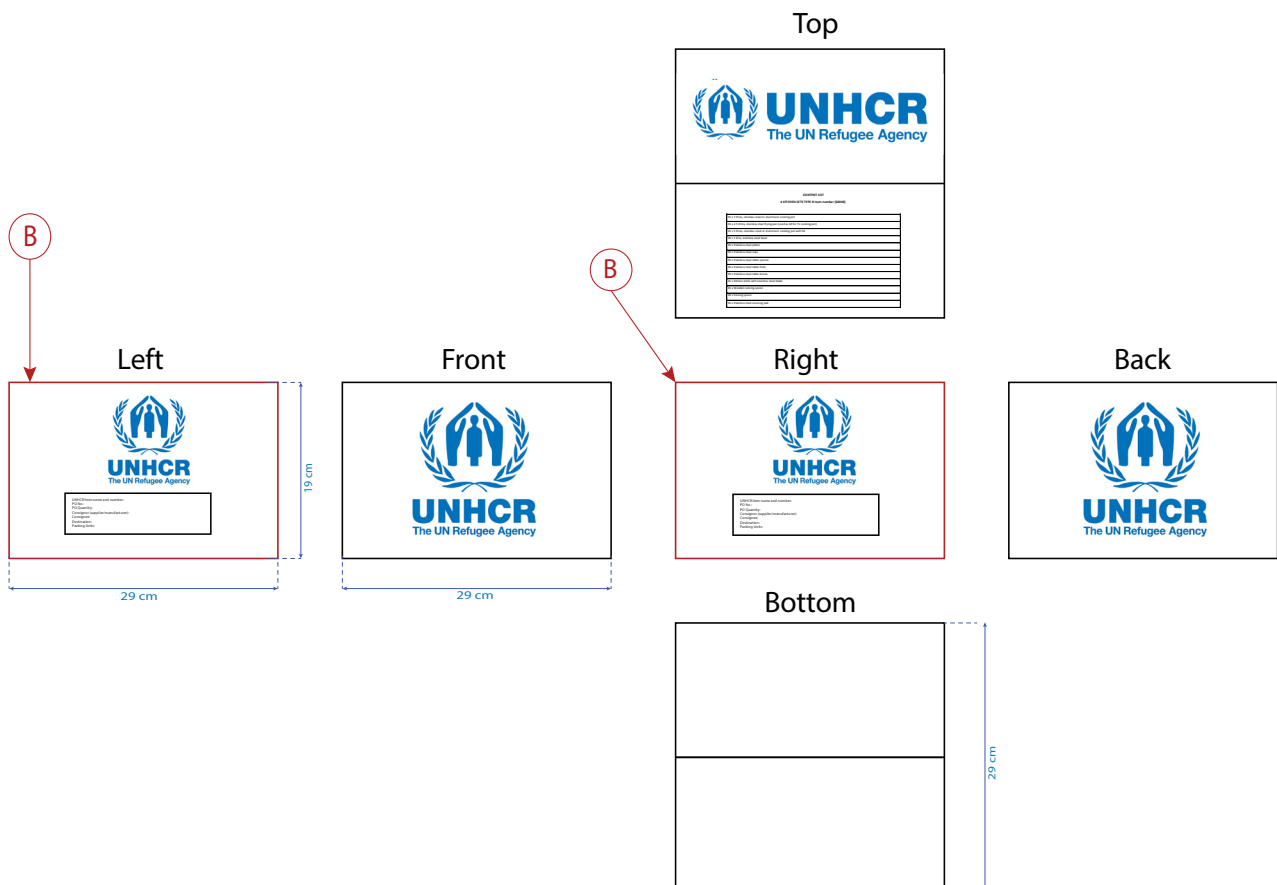
Important: In order to respect the integrity of the logo, the shipping marking information area should be visually separated from the lower part of the UNHCR visibility logo and framed with the same indelible ink as the details information as per graphic 2.

The information to be placed in the shipping marking box is as follows:

UNHCR Item name and number:
PO No:
PO Quantity:
Consignor (supplier/manufacturer):
Consignee:
Destination:
Packing units: {number / total number} - To be marked with consecutive numbers shown over the total number of packing units comprising the consignment (N/N: i.e 1/20, 19/20)



Technical Drawing





UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

KITCHEN SET - TYPE B

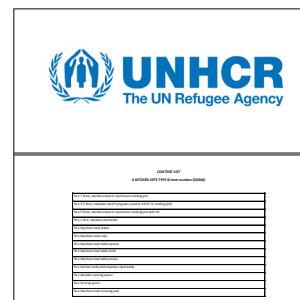
UNHCR Item No 06933

Logo and Shipping Marking on Individual Boxes

C. Application of the logo and marking in the top side of the Individual Packing:

In the top side of Individual Packing for kitchen sets, the UNHCR horizontal logo is to be placed centrally in one of the closures, occupying a minimum of 60% surface space and without any image distortions. The complete content list of the kitchen set should be included in the other closure. See graphic.

Content List

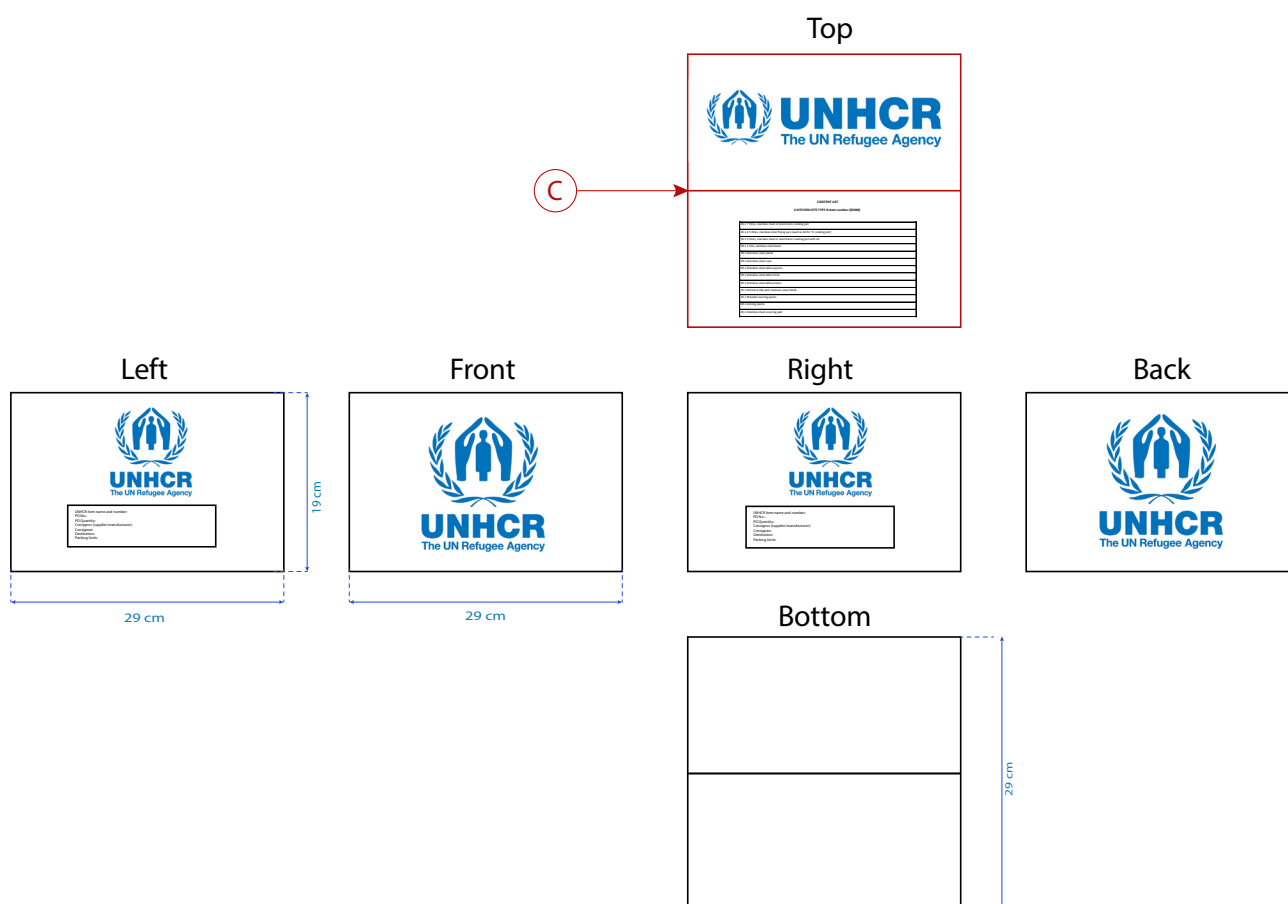


CONTENT LIST

4 KITCHEN SETS TYPE B Item number (02040)

01 x 7 litres, stainless steel or aluminium cooking pot
01 x 2.5 litres, stainless steel frying pan (used as lid for 7L cooking pot)
01 x 5 litres, stainless steel or aluminium cooking pot with lid
05 x 1 litre, stainless steel bowl
05 x Stainless steel plates
05 x Stainless steel cups
05 x Stainless steel table-spoons
05 x Stainless steel table-forks
05 x Stainless steel table-knives
01 x Kitchen knife with stainless steel blade
01 x Wooden serving spoon
02 x Serving spoon
01 x Stainless steel scouring pad
01 x Serving ladle

Technical Drawing





UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

SYNTHETIC SLEEPING MAT

UNHCR Item No 02020

Item Application Sample



General Information and Description

Synthetic sleeping mats are used to sleep on and must be waterproof, tear proof and material trim finished.

Technical Specifications

Material:

The mats should be made from 100% synthetic yarns from virgin raw materials. Synthetic sleeping mats must not contain fillers, like calcium carbonate or any other type. The use of recycled materials is not allowed.

The synthetic yarns in a tightly woven 2/2 twill structure, using a monofilament or multifilament warp (PP tubes without fillers minimum 1000 tubes per meter length) and thick tape PP or polyester yarn in weft. The two short sides to be secured with a first stitch folded hem of the mat, plus one bias 40mm binding tape of minimum 10g/m with stitches through the fabric of the mat, OR with a double folded stitched hem. Four sides trim finished.

Sleeping mat finished size: 180 x 90 cm

Sleeping mat area: 1.62 m².

Weight: 0.500 kg/m² minimum $\pm 5\%$.

Color: Plain color, white or blue.

Bursting Strength: ISO13938: 700 kPa minimum.

Tear Strength: The edges of the mat should not be tearable when strongly pulled outside by hand or other similar force.

Packing

Sleeping mats are packed in polypropylene protective bales of 25 pieces firmly secured with 4 strong straps. No individual packing required. However different packing methods may be accepted in order to maximize loadability in pallets and containers.

Weight of packing unit: 21.5 kg approx.

Note: It is important that the binding is secure and durable to prevent fraying of the mat which would result in rapid disintegration of the structure.

Weight and Volume

Gross weight per piece: 0.769 to 0.8505 kg approx.

Gross weight per bale: 19.2 to 21.5 kg

Bale size: 92 x 40 x 50 cm

Volume: 0.184 m³

Expected Life Span

It is expected that sleeping mats will last for 12 months of use under hard tropical conditions. It has a shelf life of 4 years.

Optimal Shipping / Container Information

2200 pieces, 30 pallets per 20' DC container (with pallet).

4800 pieces, 60 pallets per 40' DC container (with pallet).

4800 pieces, 60 pallets per 40' HC container (with pallet).

CRI Pallet Details

Fumigated as per IPSM 15 standard. Dimensions (L x W x H): 1150 x 770 x 144 mm. Maximum height of the packed pallet: 115 cm. Pallets should be shrink-wrapped and strapped. The palletized goods must not exceed the length and width of the pallet. For further information please refer to section IV Pallet Information.

Manufacturer Marking

Every unit should include a tag, stitched in the hem, with the manufacturer's identification (letters not higher than 1.5 cm). The tag should include the manufacture's name, unique reference batch number and the date of manufacture. No company logo should be included with the manufacturer's marking.

TAG with UNHCR Logo

UNHCR tag logo must be stitched in the hem.

Tag size: 20 x 20 cm

Tag material: Teflon.

Tag Colour: White.

Font: Helvetica Bold.

Colour specification: Pantone Blue 300 or quadrichrome (CMYK). C = 100%, M = 45%, Y = 0%, K = 0%.

UNHCR Logo

UNHCR visibility logo should be woven into the mat.

Logo size: 120 x 30 cm

Colour: White or Blue, in contrast with the mat colour. (white mat - blue logo; blue mat - white logo).

Colour specification: Pantone Blue 300 or quadrichrome (CMYK). C = 100%, M = 45%, Y = 0%, K = 0%.

Font: Helvetica Bold.



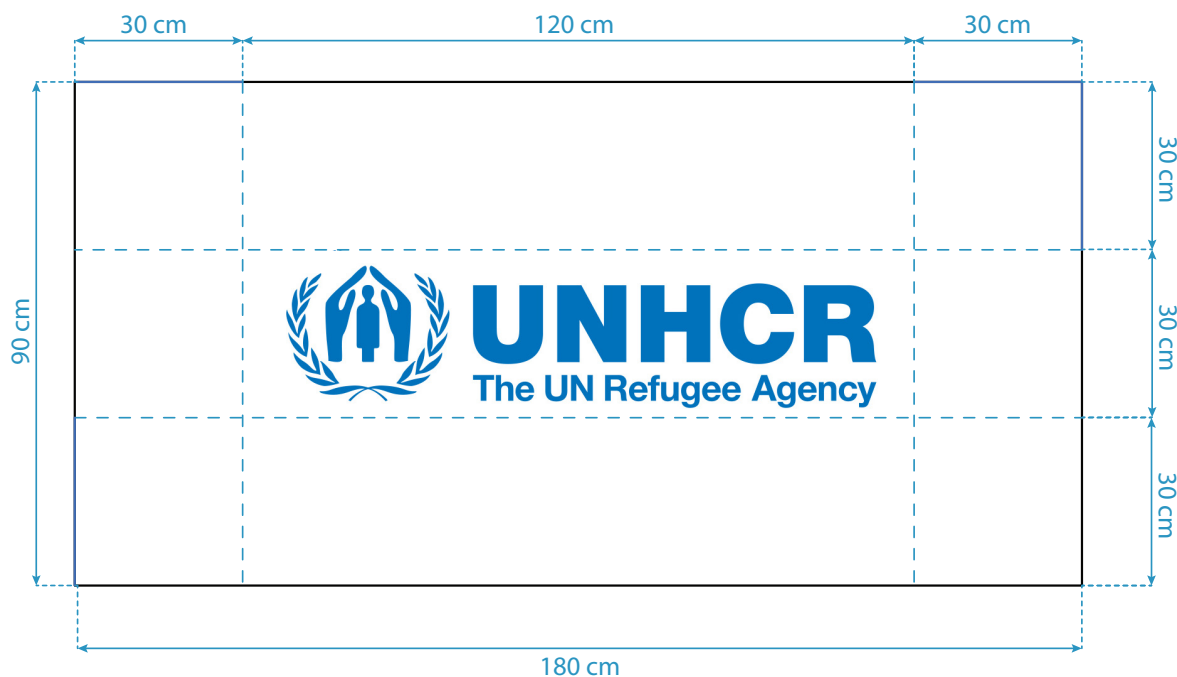
UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

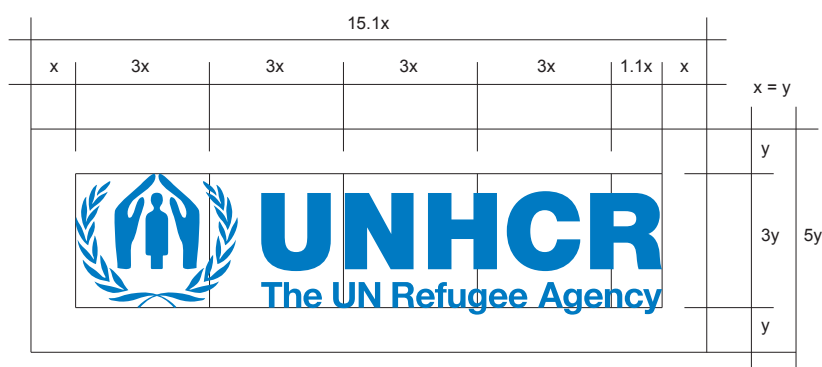
SYNTHETIC SLEEPING MAT

UNHCR Item No 02020

Graphic Reference



UNHCR Logo Application Reference



Item Application Sample



General Information and Description

Long Lasting Insecticidal Nets (LLIN's), treated with WHOPES (WHO Pesticide Evaluation Scheme) recommended insecticide, provide effective protection against mosquitoes and other insects and are essential for UNHCR's malaria control strategy.

The specifications of LLIN depend of its material composition and as per WHO recommendation the most commonly used are made of 100% Polyester (PES). Mosquito nets must be WHOPES approved (full or interim).

Rectangular mosquito net (L 180 x W 160 x H 150 cm) $\pm 5\%$.

Conical mosquito net, dimensions 1050x220cm (circumference x height) $\pm 5\%$.

Available colours may vary by manufacturer. Common colours offered are: white, blue, green

Shapes and colour preferences may vary by country. By default, UNHCR supply will request rectangular shaped nets in either blue or white. Operations must explicitly specify their colour and shape preferences if different.

Packing and Labeling

Packing:

Packing Unit (PU): Bale / Number of pieces per PU: 100.

Different packing methods may be accepted in order to maximize loadability in pallets and containers.

Labeling:

Long Lasting Insecticidal Nets should be packed individually in a printed plastic bag, containing the following information:

1. Size:
2. Manufacturer name:
3. Brand name:
4. Fiber:
5. Standard pictograms for washing (ISO 3758): Gentle wash at no more than 30°C. No bleaching, no use of a drying machine, no ironing and no dry cleaning.
6. Denier:
7. Flammability:
8. Use and precautionary instructions:
9. Name of insecticide used and dosage:
10. Expected effective life of treatment after exposure.

Optimal Shipping / Container Information

17,500 pieces / 175 bales per 20' DC container (without pallets).
38,500 pieces / 385 bales per 40' DC container (without pallets).
44,000 pieces / 440 bales per 40' HC container (without pallets).
11,200 pieces / 28 pallets per 20' DC container (with pallets).
24,000 pieces / 60 pallets per 40' DC container (with pallets).

Manufactured Marking

Every unit should include a tag, stitched in the hem, with the manufacturer's identification (letters not higher than 1.5 cm). The tag should include the manufacture's name, unique reference batch number and the date of manufacture. No company logo should be included with the manufacturer's marking.

CRI Pallet Details

Fumigated as per IPSM 15 standard. Dimensions (L x W x H): 1150 x 770 x 144 mm. Maximum height of the packed pallet: 115 cm. Pallets should be shrink-wrapped and strapped. The palletized goods must not exceed the length and width of the pallet. For further information please refer to section IV Pallet Information.

Expected Life Span

It is expected that Long Lasting Insecticidal Nets will have a life span on the average of 3 to 5 years according the use, the type and the fabric origin.
It has 4 years shelf life span.

Technical Specifications

Material: (composition ISO1833) Polyester (PES) 100%.

Fabrication: (construction ISO 8388) Warp knitted.

Size: 180 x 160 x 150 cm (rectangular), 1050 x 220 cm (conical). +/- 5 %.

Denier: (ISO 2060, DUPRO) 100.

Filament: Multi-filament 36 or higher.

Netting mesh size: Min. 25 holes/cm² (156 holes/inch²).

Weight: (ISO 3801) 40 g/m² depending of denier. +/- 10%

Shrinkage: (ISO 5077/ISO 6330 - 8A at 30 C, flat dry) ± 5%.

Bursting strength: (ISO13938) 350 kPa minimum.

Fire safety: (16 CFR part 1610): Class 1.

Color: Preferably white, blue or green.

Treatment: Long lasting insecticide (3 to 5 years).

Insecticide: WHOPES recommended.

Concentration of insecticide: WHOPES recommended.

Target level of concentration: WHOPES recommended.

Net Label

Nets are to be labeled with indelible ink or stitched to the net as follows:

1. Manufacturer's name, without logo:
2. Date of production:
3. Unique batch number:
4. Fiber:
5. Size (length x width x height) in cm:
6. Name of insecticide used and formulation:

Standard pictograms and instructions for washing and drying, according to ISO 3758:

Gentle wash at 30°C. No bleaching. No drying machine. No ironing. No dry cleaning.



The presented pictograms in text: Avoid frequent washing, but if required, wash gently and do not do bleaching. Avoid exposure to the sun.



Better Shelter 1.2

Weight and volume

Net weight (excluding packaging)	144kg +/-5%
Gross weight (including packaging)	160kg +/-5%*
Gross volume	1.14m ³ +/-5%*

*excl. pallet

Units per container

Shipping	
Container size	Number of units
1 twenty feet container DC (palletized)	17
1 forty feet container DC (palletized)	36
1 forty feet container HC (palletized)	48

Shelf-life

The shelter has a shelf life of three years when stored under normal dry, clean, ventilated warehousing conditions. The PV system battery has a shelf life of 6 months from pickup at the Better Shelter warehouse. The shelter packaging must be stored off the ground, on pallets and pallet racks.

Packaging

The shelter is delivered in two packages: A and B, designed to be opened in the order of assembly.

Package A contains the tools and ground template, foundation, roof frame and roof panels.

Package B contains wall pipes, wall panels, floor, and openings.

Package weight and dimensions*

Name	Outer dimensions (LxWxH) [mm]	Weight [kg]	Volume [m³]
Box A	2020x1090x230	87	0.51
Box B	2000x1090x290	73	0.63
Total	2020x1090x520	160	1.14

*Note that weight and dimension may vary +/- 3%.

Assembly instructions and content list

A set of graphic assembly instruction manuals (incl. content list) showing step-by-step set-up information drawings are supplied with every unit.

Spare part kit

A spare part kit is supplied with every unit.

General description

Dimensions

Floor size	17.5 m²	188 ft²
Min internal height (eave level)	>1.8 m	>5.9 ft
Max internal height	>2.6 m	>8.5 ft

Each building is colour coded for easy identification.

WiikHall No. 1 = Red

WiikHall No. 2 = Green

WiikHall No. 3 = Black

WiikHall No. 4 = Blue

WiikHall No. 5 = Orange

Package	Items	Length	Width	Height	Weight
1	14 Half truss	5,5 m	0,45 m	0,30 m	329
2	2 gable tension bar right 2 gable tension bar left	3,20 m	0,20 m	0,20 m	20
3	18 Purlins	4,0 m	0,38 m	0,2 m	117
4	12 Wall tension bar	3,90 m	0,20 m	0,15 m	84
5	14 Wall element	4,20 m	0,50 m	0,30 m	333
6	4 Gable column	4,40 m	0,30 m	0,20 m	32
7	2 Gate assembly 1 Lifting fork for purlin	4,00 m	0,25 m	0,25 m	98
8	1 Ladder	4,10 m	0,30 m	0,10 m	8
9	7 Roof Apex 14 base plate 4 Gable base plate 8 Counter bracing cables wall 8 Counter bracing cable roof 36 Ground spike 2 Sliding bolts 30 Hex screw M16x220 HDG 5 Hex screw M16x100 HDG 35 Hex lock nut M16 HDG 70 Washer Ø17m HDG 13 Hex screw M12x120 HDG 62 Hex screw M12x90HDG 75 Hex lock nut M12 HDG 156 Washer Ø13 HDG 30 Linch Pin 1 Tension bar tool 2 Rope 30 m 1 Tool kit 1 Repair kit 1 Spade + 1 sledgehammer	1,20 m	0,80 m	0,60 m	352
10	5 Roof cover 1 Roof cover for logo 2 Gable covers sliding door 4 Gate cover	1,20 m	0,80 m	1,00 m	480
11	4 UNHCR Logo Sheets each 3,5 x 2 meter	0,20 m	0,40 m	0,60 m	24
Total Gross Weight ONE UNIT					1.877

Total weight 5 prefabricated warehouses 10 x 24 meter: 9.385 kg.

PIEZAS RUBHALLS



PIEZAS RUBHALLS



PIEZAS RUBHALLS



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BRIGHT is an Oslo based company with a mission to deliver solutions for better off grid living. Bright's products bring better, cleaner and safer light to the millions of people without electricity.

Designed in Norway
For a world where people see new possibilities

Read more about us and our products on bright-products.com

12. Other products

SunTurtle

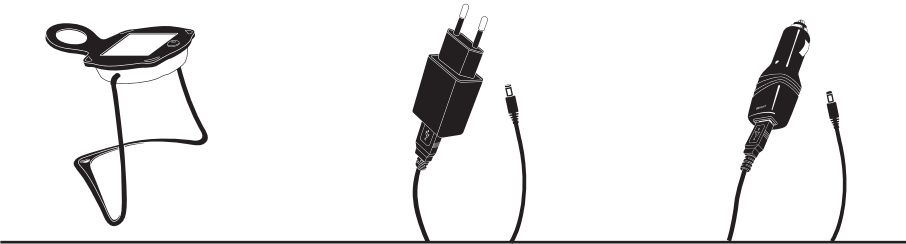
SunTurtle is an award winning solar lamp that can turn any standard plastic bottle into a lamp stand and it can be attached to a backpack for easy charging when on the move.

Wall charger

A wall charger for BRIGHT products.

Car charger

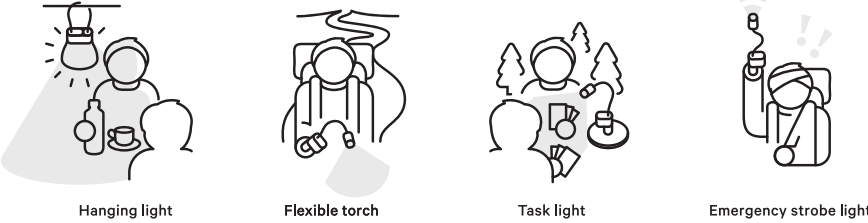
A charger for BRIGHT products when on the road.



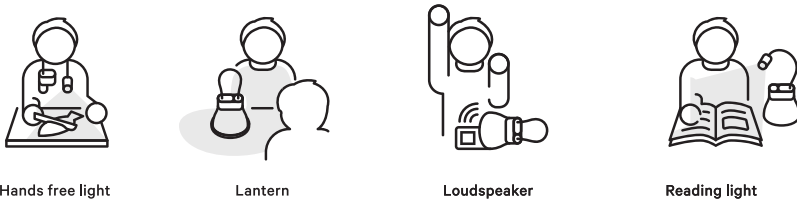
Designed in Norway by K8 Industridesign
bright-products.com

Icons: a crossed-out trash can, the CE mark, and a recycling symbol.

8. Use its many functions

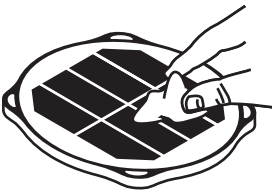


Hanging light Flexible torch Task light Emergency strobe light



Hands free light Lantern Loudspeaker Reading light

9. Maintain it




Regularly wipe the solar panel to clean from dust & dirt using a soft cloth. **Do not use chemicals!**



Make sure plugs are covered when no cable is connected. Avoid dirt and moisture getting into the plugs.

10. Technical data

 Battery 4.8 Wh LiFePo4 battery (1,500 mAh at 3.2 V) 5-7 year lifespan (2,000 charge cycles)	LED type Samsung	The battery is made to last 2,000 cycles or 5-7 years and must be replaced by a qualified agent.
Materials ABS, PC, PP, Steel, Aluminium	The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.	

11. Warranty

Limited Product Warranty for SunBell 2.0

BRIGHT PRODUCTS AS warrants that the product has been carefully tested, inspected and left the Factory in a proper working condition, free of visible defects. BRIGHT PRODUCTS AS warrants the product to be free from defects in material and workmanship, under normal use and operation, for a period of two (2) years after the date of sale/handover to consumer.

"The product" in this warranty is defined as the "SunBell 2.0" solar lamp, consisting of the following main parts delivered in the unit packaging: 1) The SunBell stand/lampshade 2) The SunBell LED lamp & battery unit 3) The SunBell Solar panel with cable

The warranty is limited to the free replacement of the defective main part(-s) or replacement of the entire product during the two years of warranty. Defective parts/products replaced under this warranty shall become the property of BRIGHT PRODUCTS.

The above stated Warranty is subject to the following conditions:

Products are sold by authorized BRIGHT PRODUCTS AS representatives. The products are operated and maintained in accordance with BRIGHT PRODUCTS operating instructions, maintenance instructions and specifications. Utilization of only BRIGHT PRODUCTS AS authorized parts and accessories. The warranty shall not apply to damages resulting from normal wear and tear of product use, nor shall it apply to any product, which has been subject to

damages, alterations or misuse by the purchaser. Parts of the product, which would be generally considered as expendable service items during normal use, such as cardboard box/packaging items, instruction manual etc., are not covered by the warranty.

The USB mobile phone charger is made to support most commonly available mobile phones based on their current/known specifications for charging current and -accessories. The warranty does not cover replacement of the entire product or the USB mobile phone charger if the mobile phone used has specifications that does not comply with the charging current or specifications for the SunBell and the USB charger.

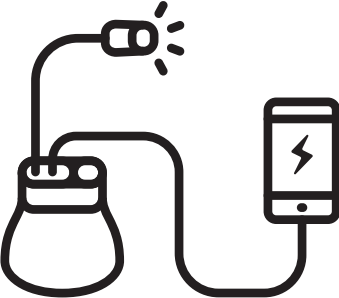
How to make a warranty claim:

Warranty claims must be made directly to the point of purchase with a valid proof of purchase. If the warranty claim is found to be valid upon point of inspection, a replacement product or part will be handed out or ordered for hand out at a later date. If there is doubt about the validity of the warranty claim, the product may be kept by the seller to consult with importer or BRIGHT Products AS. BRIGHT Products AS and our representatives are not liable for products that are damaged or lost in transit. If needed, we recommend that you ship your returned products to point of purchase via a trackable shipment method.

THERE ARE NO WARRANTIES, WHICH EXTEND

BEYOND THIS DESCRIPTION, AND EXPRESSLY NO IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL BRIGHT PRODUCTS BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR ANTICIPATED LOSS OF PROFITS SUFFERED BY THE PURCHASER. BRIGHT PRODUCTS AND OUR RESELLERS HAVE NO LIABILITY FOR ANY DAMAGE OR DESTRUCTION TO CONSUMER ELECTRONICS DEVICES OR OTHER PERSONAL PROPERTY THAT ARE USED IN CONNECTION WITH THE PRODUCTS, INCLUDING, BUT NOT LIMITED TO, LAPTOPS, CELL PHONES, MP3 PLAYERS, DVD PLAYERS OR HANDHELD DEVICES, OR ANY LOSS OF DATA CONTAINED IN THE FOREGOING DEVICES. NOTWITHSTANDING ANY DAMAGES THAT YOU MIGHT INCUR FOR ANY REASON WHATSOEVER (INCLUDING, BUT NOT LIMITED TO, ALL DAMAGES REFERRED TO HEREIN AND ALL DIRECT OR GENERAL DAMAGES IN CONTRACT, TORT (INCLUDING NEGLIGENCE OR OTHERWISE), THE ENTIRE LIABILITY OF BRIGHT PRODUCTS AND ANY OF ITS SUPPLIERS SHALL BE LIMITED TO THE AMOUNT ACTUALLY PAID BY YOU FOR THE PRODUCT. SOME STATES AND/OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

BR!GHT

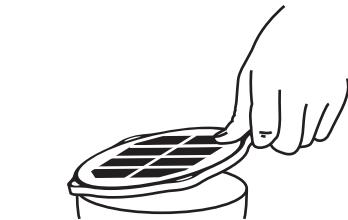


SunBell 2.0
Instruction manual

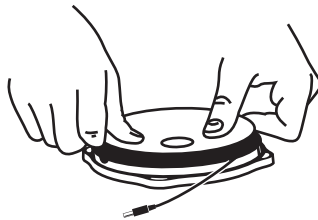


CONGRATULATIONS!

You are now the BRIGHT owner of a SunBell 2.0 solar lamp & phone charger. Kindly follow these instructions for optimal use and durability.

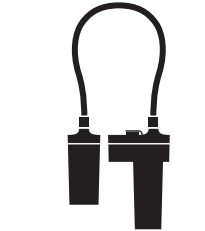


Unpack by pulling the solar panel by the loops



Open the cover to roll out the solar cable. 4 m cable inside. Hold the solar panel while releasing the cable!

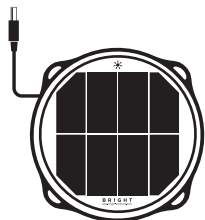
1. Unpack it



Light & battery unit



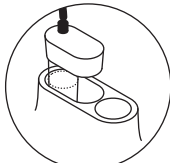
Lamp shade



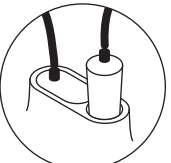
Solar panel

2. Mount it

Insert battery unit into shade



Insert battery and light into shade



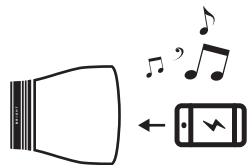
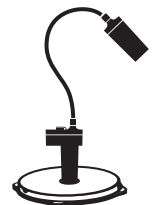
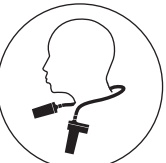
Hang SunBell 2.0 from a hook



Insert battery on back side of solar panel



Place light & battery unit around neck



Make lamp shade into a Lo-Fi speaker

3. Light modes

1 st press	/	2 nd press	/	3 rd press
80 h+ 5 lm		20 h+ 20 lm		6 h+ 80 lm

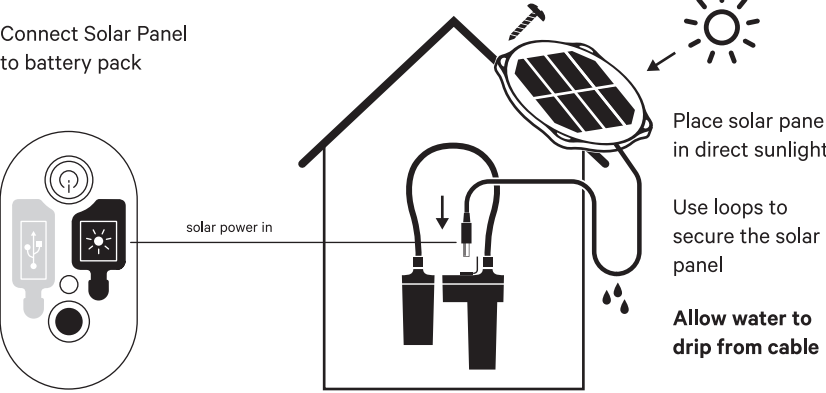
Max working hours may vary between units and place of use. The numbers above are estimates based on optimal working conditions.

4. Charge it

☀️	☁️	☁️
4 h+	8 h+	10 h+

Depending on sun conditions

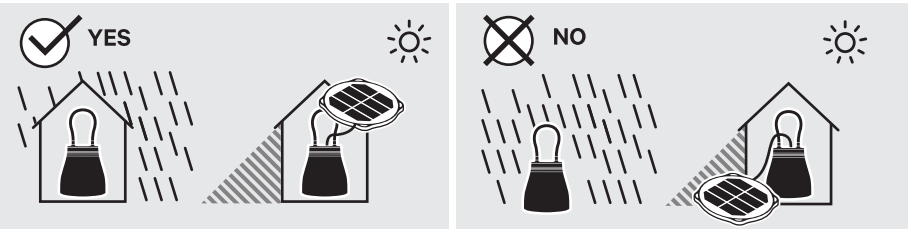
Connect Solar Panel to battery pack



Place solar panel in direct sunlight

Use loops to secure the solar panel

Allow water to drip from cable



5. Additional light functions



6. Battery indication

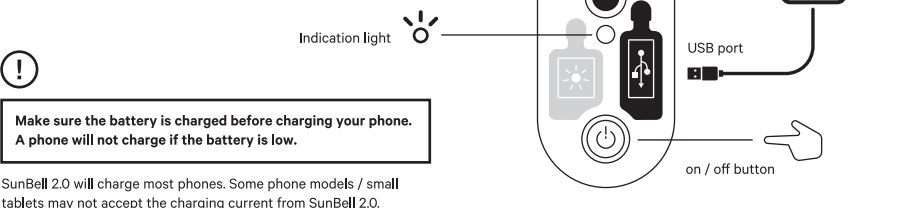
Charging	In use
100% STEADY GREEN	BLINKING RED
FAST CHARGE SLOW CHARGE BLINKING GREEN	0% STEADY RED

When the battery is almost empty the main light will blink 3 times and automatically dim down to the low setting for a final 30 min of light.

A 30 second safety light is available when the button is pressed again.

7. Phone charging

Connect your phone to SunBell 2.0 with USB cable and start charging.



Make sure the battery is charged before charging your phone. A phone will not charge if the battery is low.

SunBell 2.0 will charge most phones. Some phone models / small tablets may not accept the charging current from SunBell 2.0.

The Complete Family Solar Lamp & Phone Charger

BRIGHT SUNBELL 2.0

The high quality and long-lasting solar lamp, with proven performance, that can be adapted to cover all the lighting needs of a family.



UNHCR
CORE RELIEF
ITEM
SINCE 2014

EMERGENCY RELIEF WORLDWIDE:



Up to 80 hours
of light on
low setting



Replaces
kerosene &
candles



Mobile phone
charging inc. cable



Charges fully
in 4 hours



2.4 million lamps
delivered globally

Technical Information



2 year
warranty

Battery:	LiFePo4	Brightness:	80 lumen at the highest setting
Battery size:	4.8 Wh, 1,500 mAh at 3.2 V	Weight:	700g
Battery life span:	2000 full lifecycles= 5-7 years of daily use	Freight:	7,120 units in one 20ft unpalletized container
Light run time:	80 hours on the low setting. 6+ hours on the high setting	Shelf life:	Recharge batteries every 1,5-2 years
Charge time:	Charges fully in 4 hours	Ingress protection:	Dust & splash proof, IP64

More information: www.bright-products.com/tender



1. Hanging light



2. Lantern



3. Flexible torch



4. Emergency light



5. Task light



6. Hands free light



7. Reading light



8. Mobile phone charger



Award winning
Norwegian design

BR!GHT



This product meets the Lighting Global Quality Standards

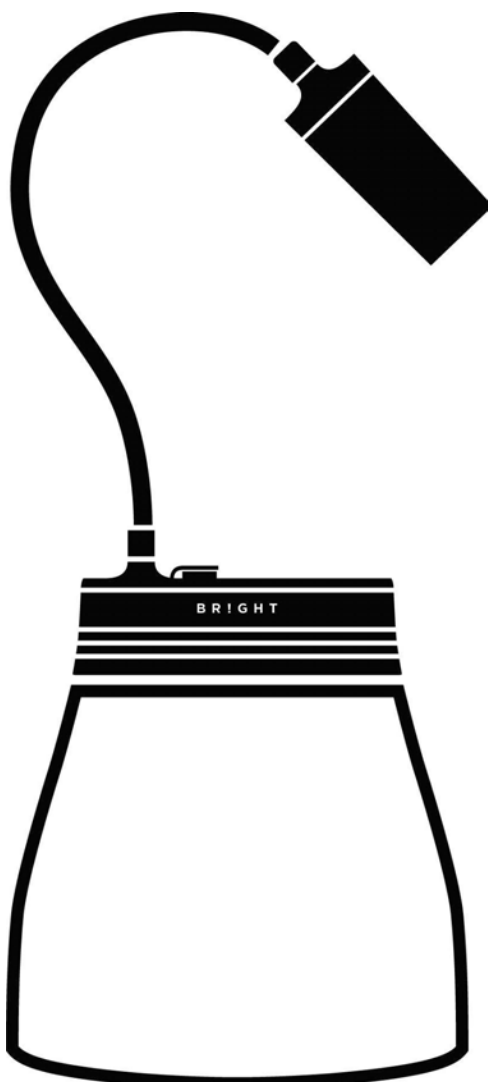
info@bright-products.com

kumasi.lapponi@giertsen.no



UNHCR

The UN Refugee Agency

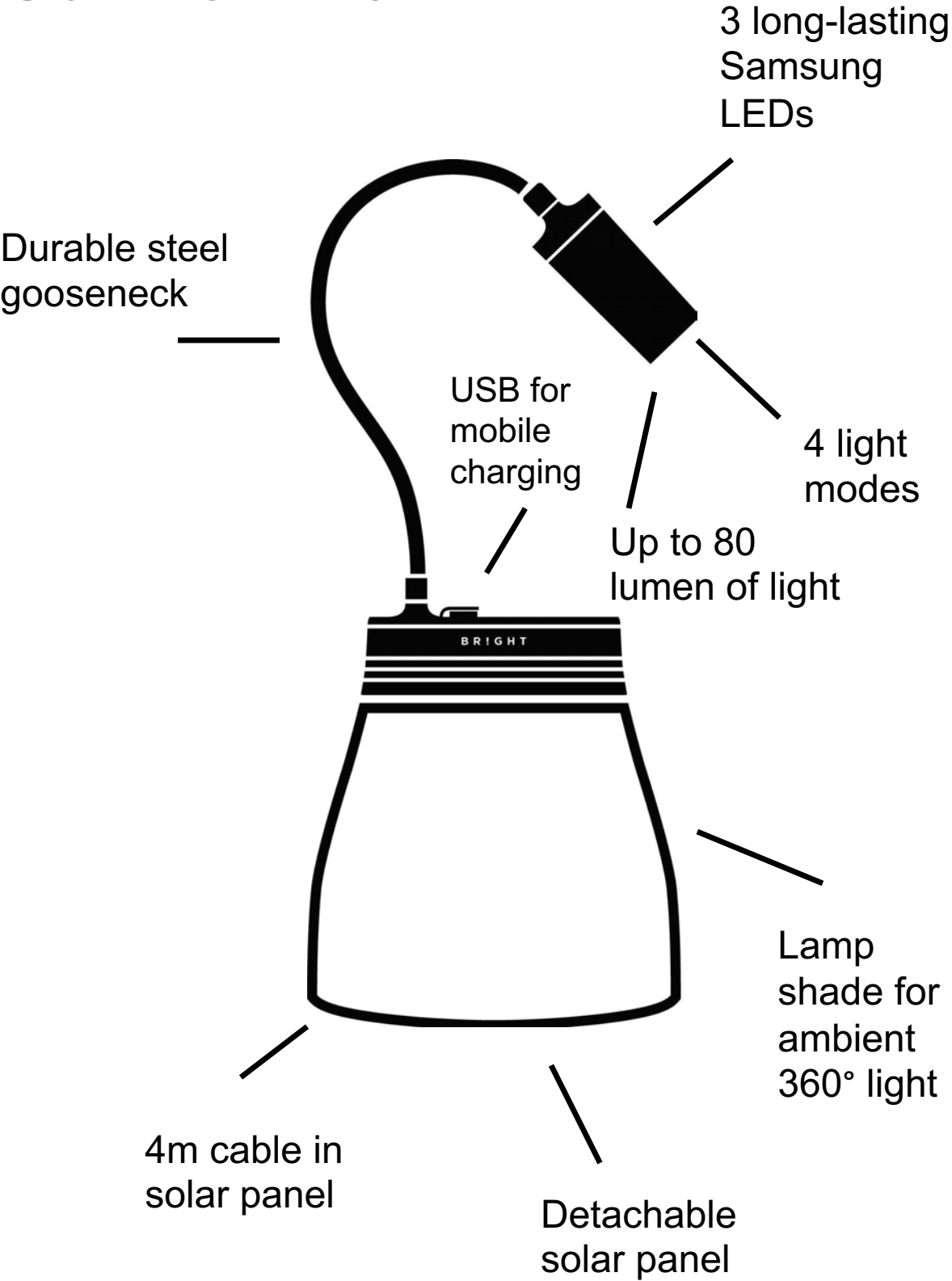


SunBell 2.0 Y

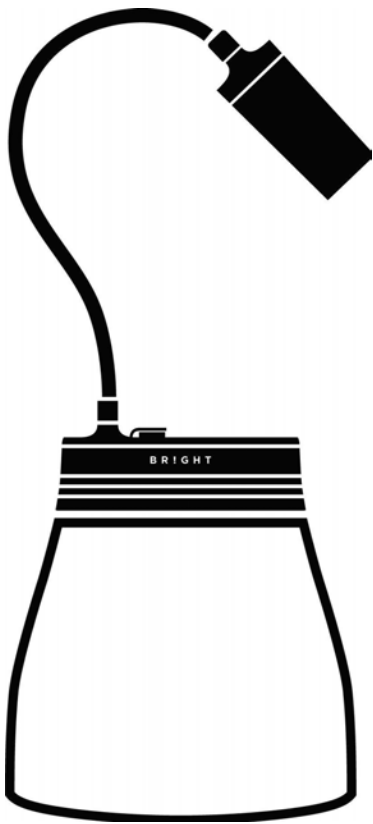
Training manual

BR!GHT

SunBell 2.0 Y

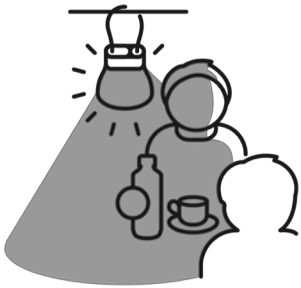


BR!GHT



SunBell 2.0 Y

- Multifunctional with 8 different products in one
- Battery lifespan of 5-7 years of daily use
- Up to 80 hours of light on low setting
- 80 lumen of light and 4 light modes
- Charges your feature phone
- Dust and splash proof (IP64)



1. Hanging light



1. Flexible torch



3. Task light



4. Emergency strobe light



5. Hands-free light



6. Lantern



7. Mobile charging

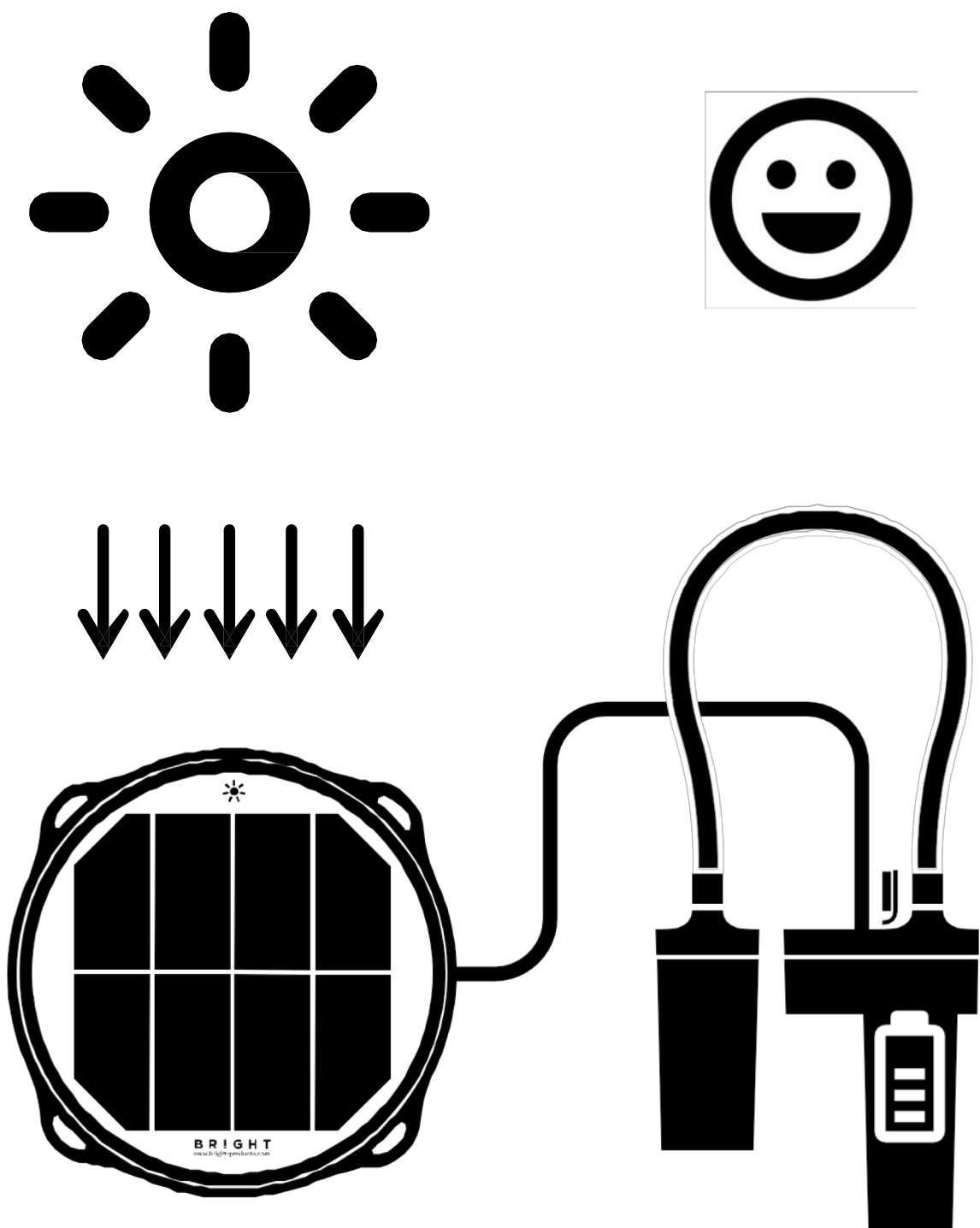


8. Reading light

BR!GHT

Solar Energy

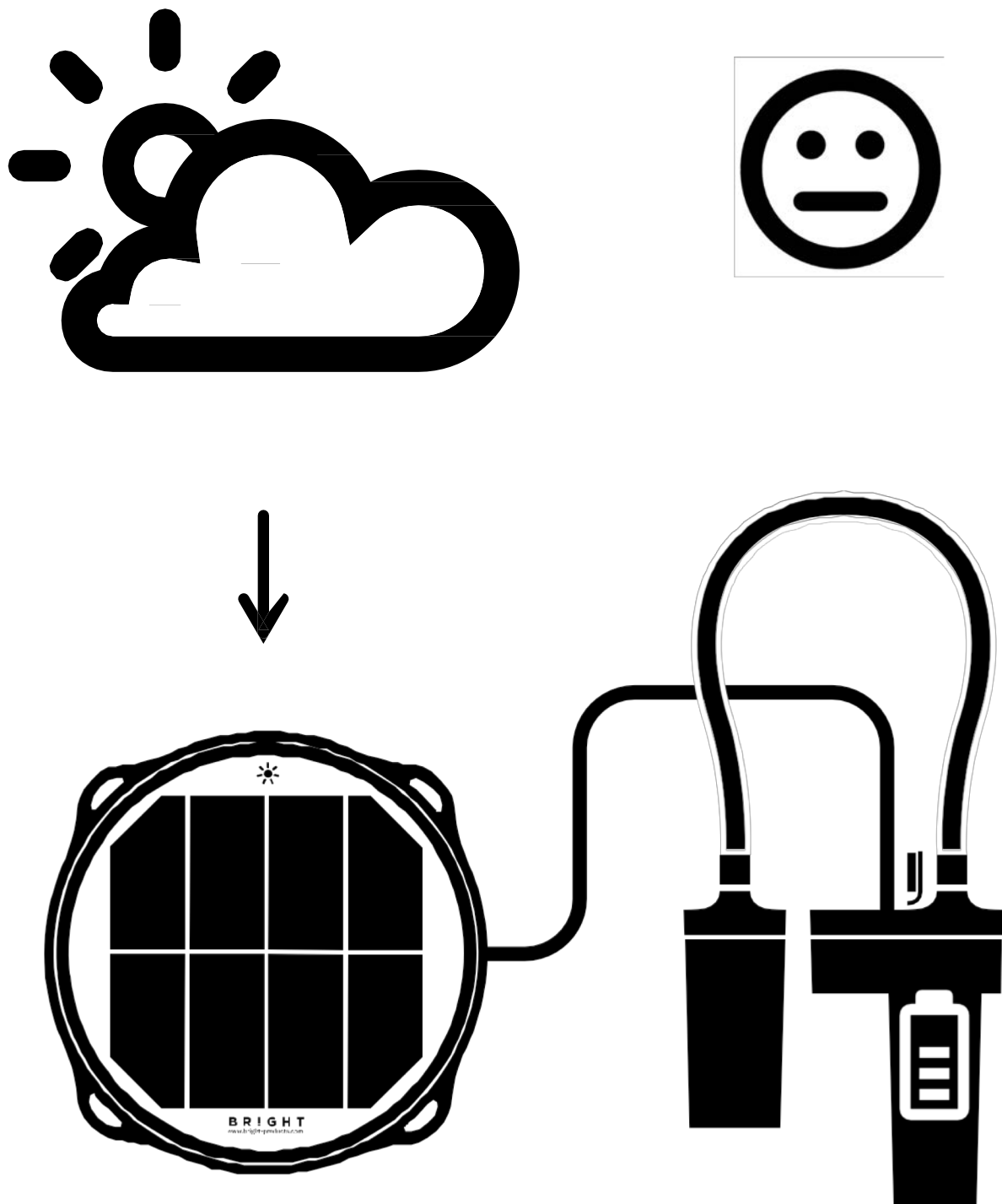
The solar panel must face the sun to create electricity. Under a clear sky in bright sunshine the SunBell will charge more quickly. The solar lamp will be fully charged within a sunny day.



BR!GHT

Solar Energy

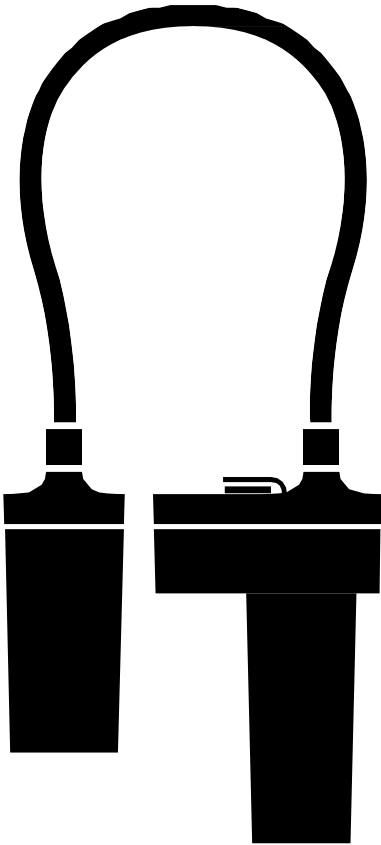
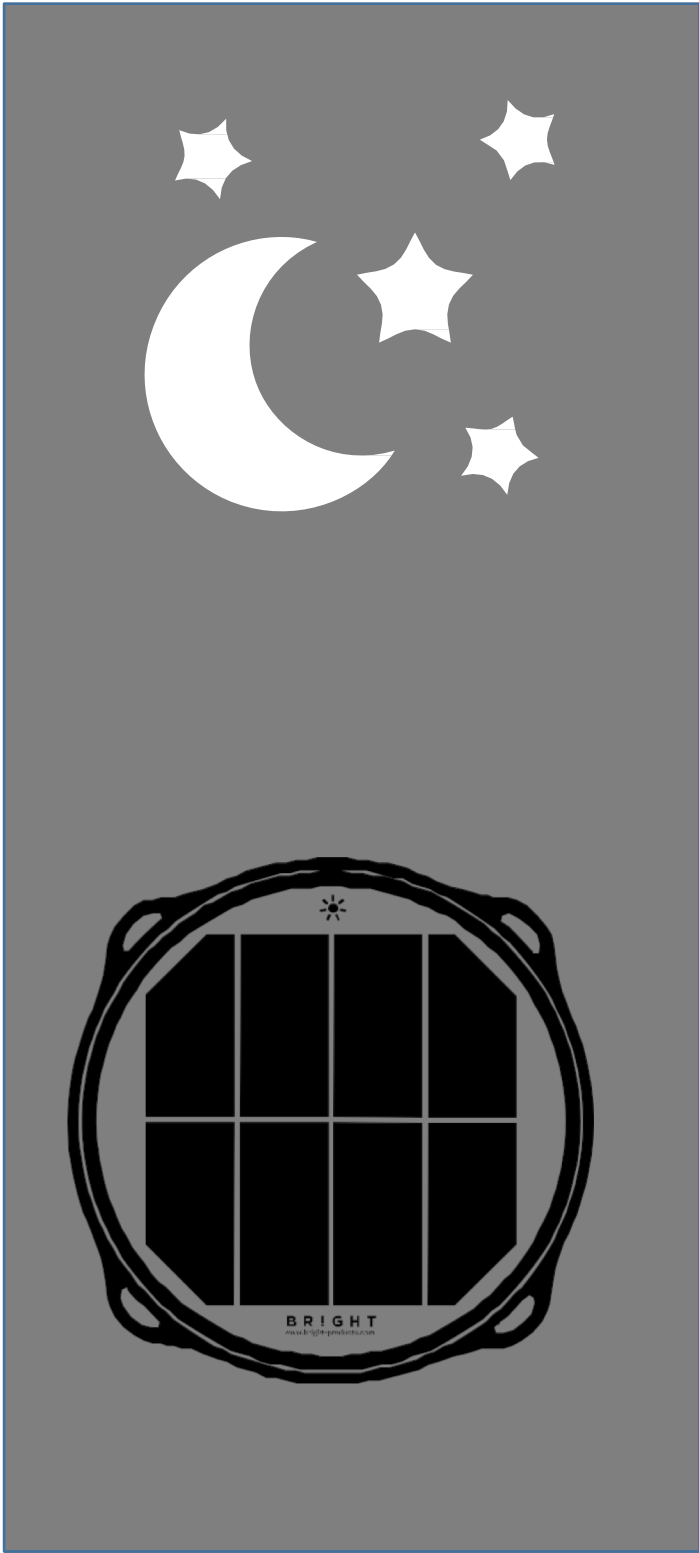
Under cloudy conditions the SunBell will charge slowly.



BR!GHT

Solar Energy

The lamp cannot charge at night after the sun has set. The solar panel should be disconnected at night.



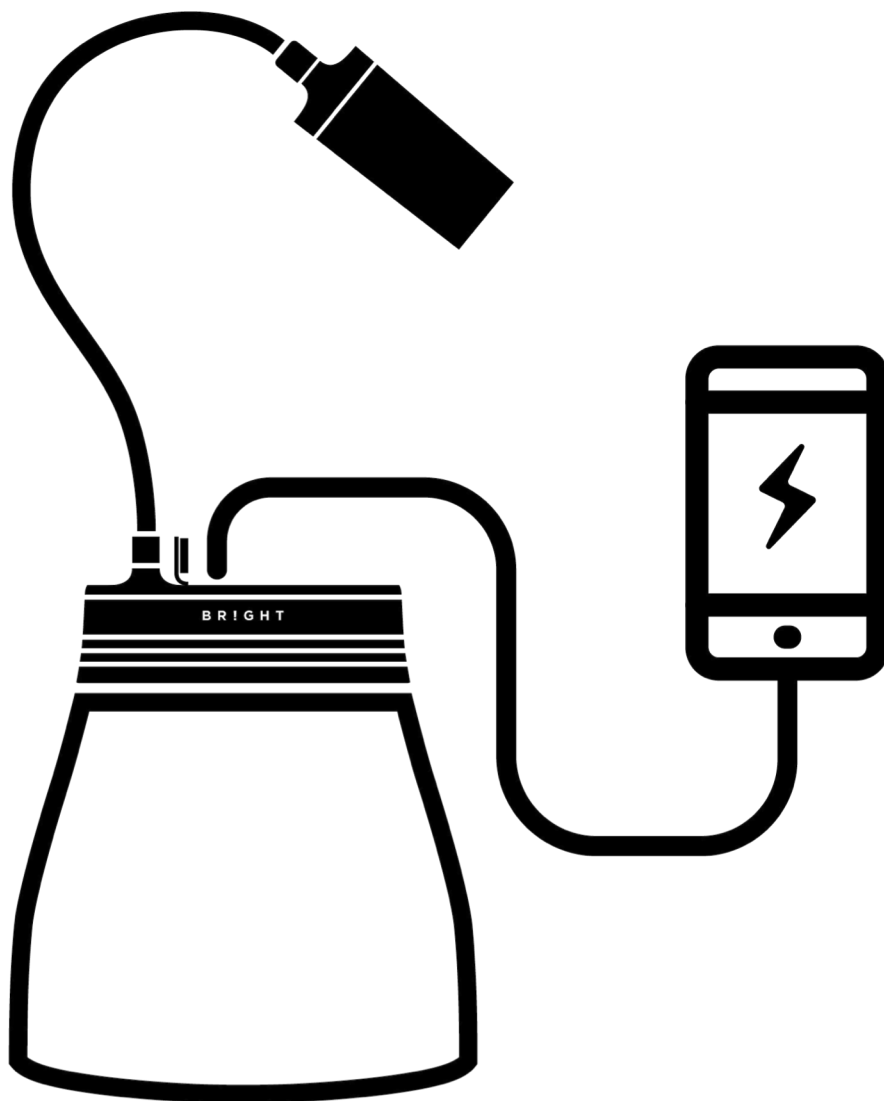
BR!GHT

Enjoy at night

At night you can enjoy the light from your solar lamp after charging it in the daytime.



BR!GHT



SunBell 2.0 Y

Instruction Manual

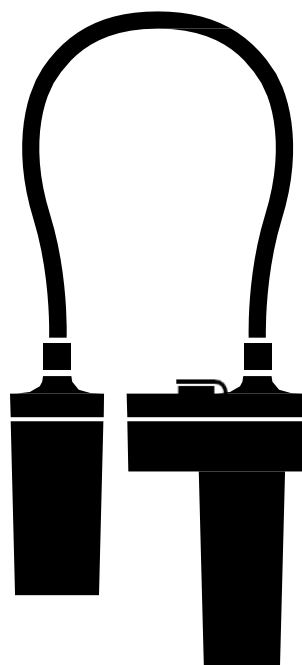


BR!GHT

Unpack the product



Remove the solar panel from the lamp shade using the plastic tabs.

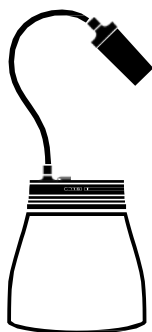
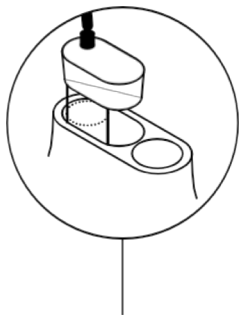


LED light, battery pack and control unit.

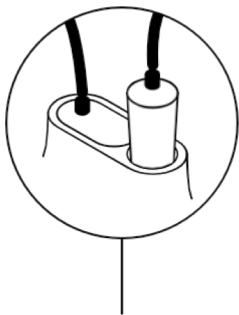
BR!GHT

Assembly

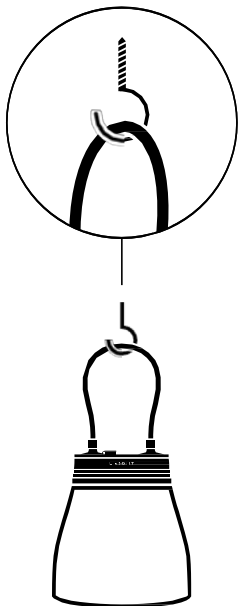
Insert the battery unit.



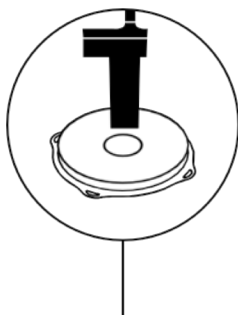
Insert the battery and light head



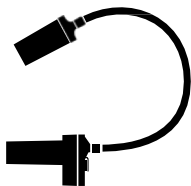
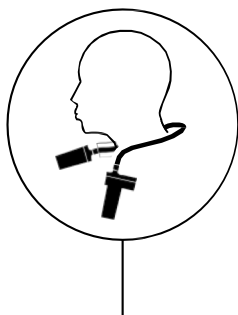
Hang SunBell from a hook or over a cable



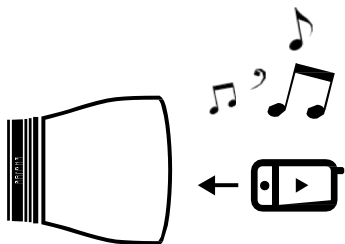
Insert the battery unit into the solar base flip lid



Place the lamp and battery around your neck



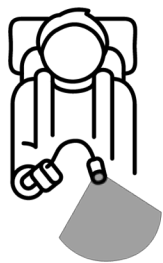
Make the lamp shade into a speaker



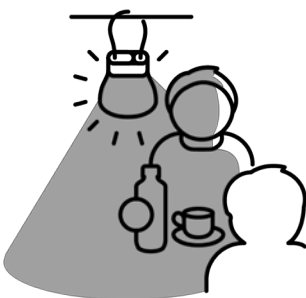
BR!GHT

8 Key Features

Use your SunBell 2.0 Y in 8 different ways



1. Flexible torch



2. Hanging light



3. Task light



4. Emergency
strobe light



5. Hands-free light



6. Lantern



7. Mobile
charging

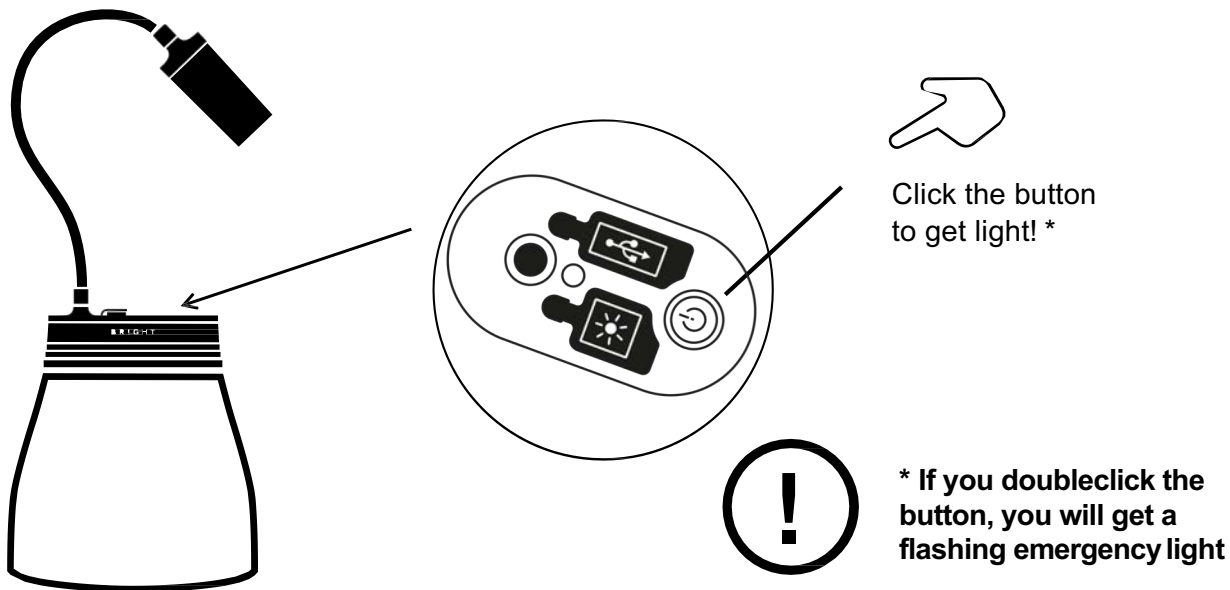


8. Reading light

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Light Modes

Press on/off button for the 4 lamp modes



Light modes

1 click: Low setting

2 click: Medium setting

3 click: High setting

Fast doubleclick: Emergency strobe light

Full battery run time

1st click

80 hrs of light
5 lumen



2nd click

20 hrs of light
20 lumen



3rd click

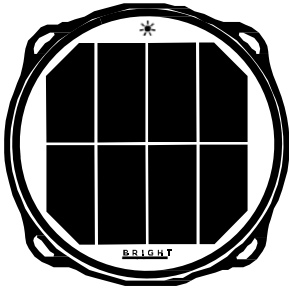
6 hrs of light
80 lumen



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Solar Panel

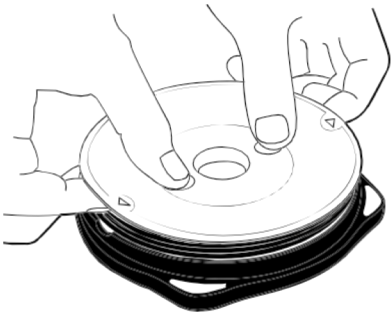
Un-roll solar cable from under the solar panel



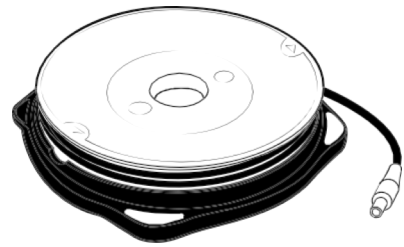
1- Take the solar panel



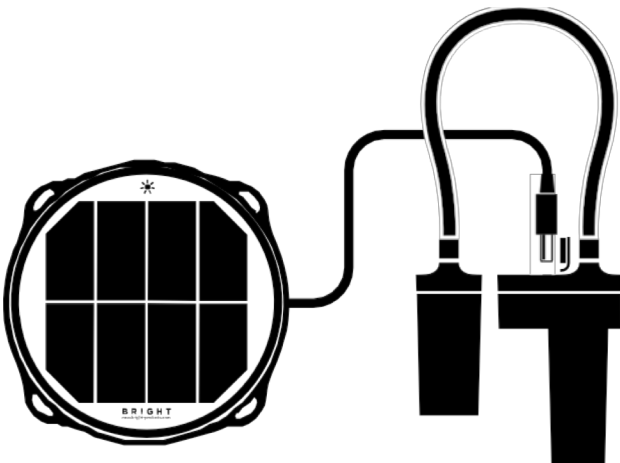
2- On the back of the solar panel place thumbs on the small indents and forefingers under the arrows.



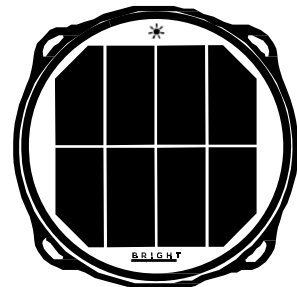
3- Pull up with the index fingers to lift up the Flip Lid.



4- Unroll the 4m solar cable inside the Flip Lid.



5- Attach the solar panel to the battery unit using the connector marked with a sun.

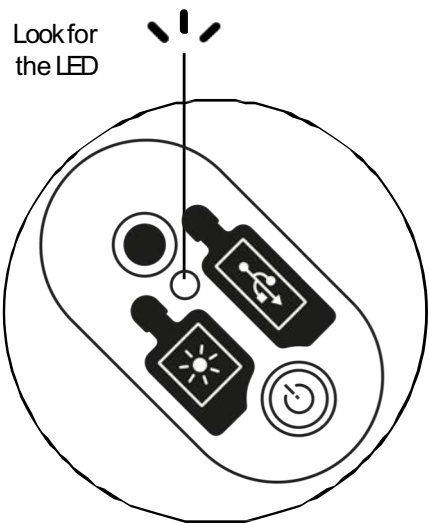
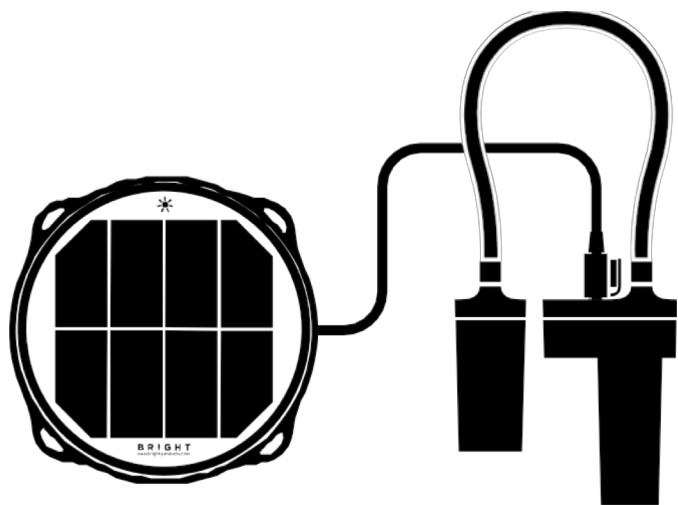


6- After attaching the solar panel to the battery unit, place the solar panel in the sun to start charging

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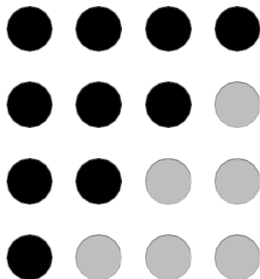
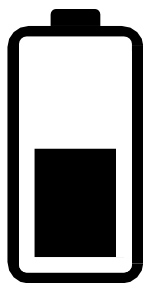
Solar Charging

Charge indication



Battery Charging

Flashing green

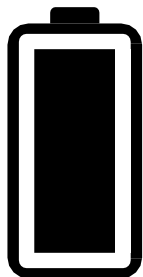


Charging quickly

Charging slowly

Battery charged

Steady green

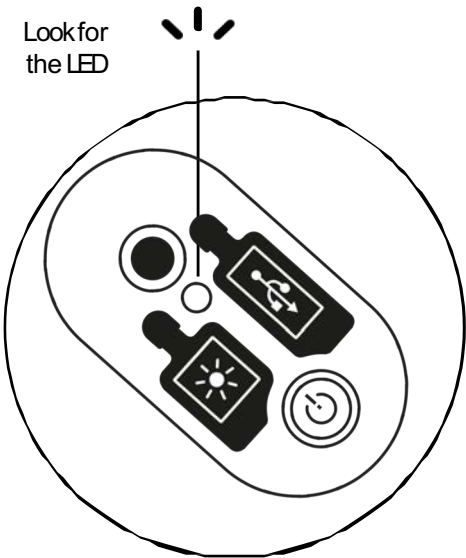
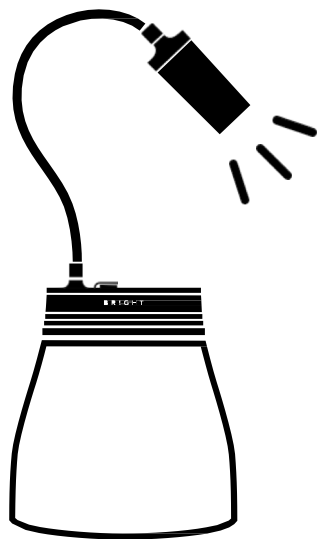


Battery 100% charged

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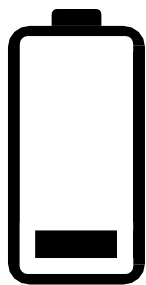
Battery

Indications



Battery discharged

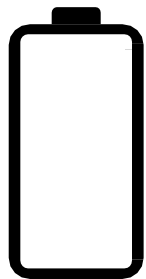
Flashing red



When the battery is low, the main light will flash 3 times and then automatically decrease to the low light setting. You will then get 30 minutes of light.

Battery completely discharged

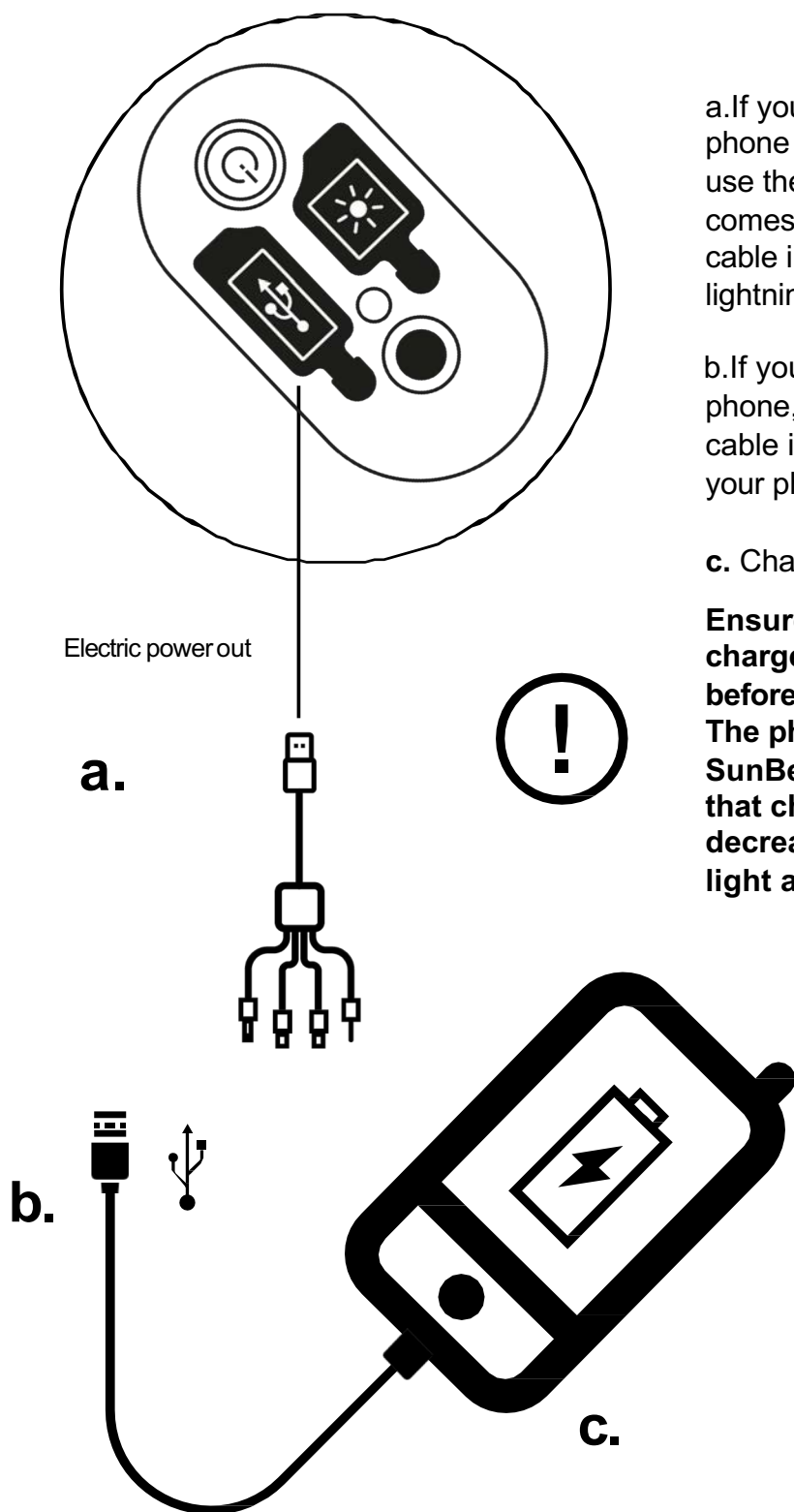
Steady red



You will have 30 seconds of emergency light each time the on/off button is pressed.

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Phone charging



a.If you are charging a cellular phone (not smartphone), you can use the phone charging cable that comes with the lamp. Plug the cable in the socket marked with a lightning bolt.

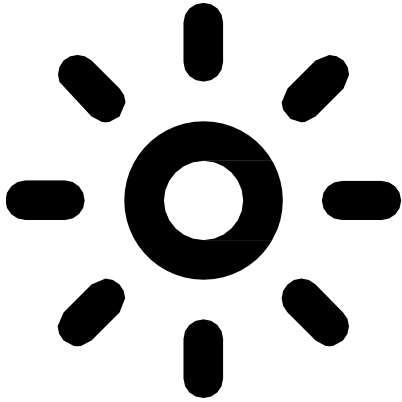
b.If you are charging a smart phone, connect an appropriate cable in the USB entrance with your phone.

c. Charge the phone.

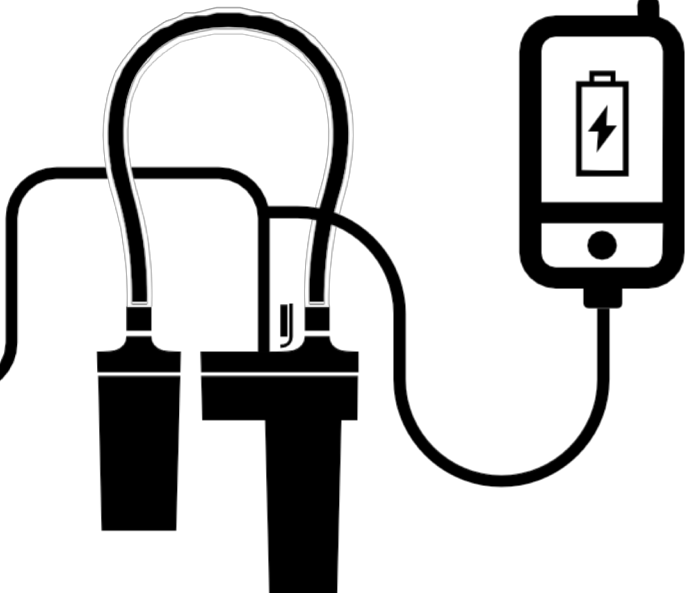
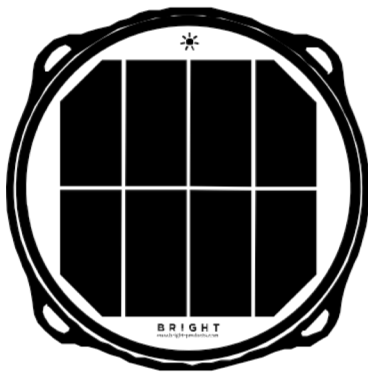
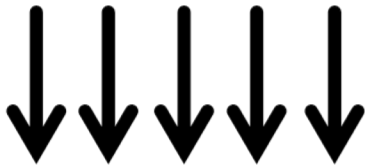
Ensure that the battery is well charged (steady green light) before recharging your phone. The phone will not charge if the SunBell's battery is low. Note that charging a phone will decrease the number of hours of light available.

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Phone Charging Optimisation



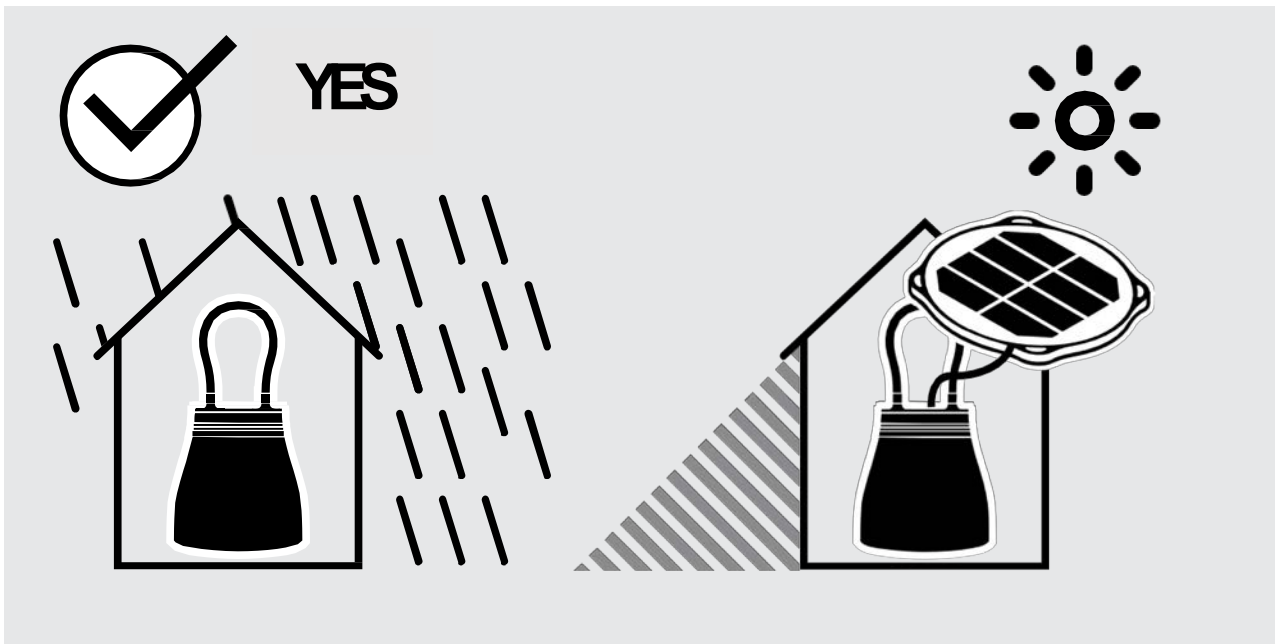
To optimize use of the SunBell 2.0, charge your phone when the SunBell's battery is fully charged (LED indicator steady green) and the solar panel is still connected and in the sun.



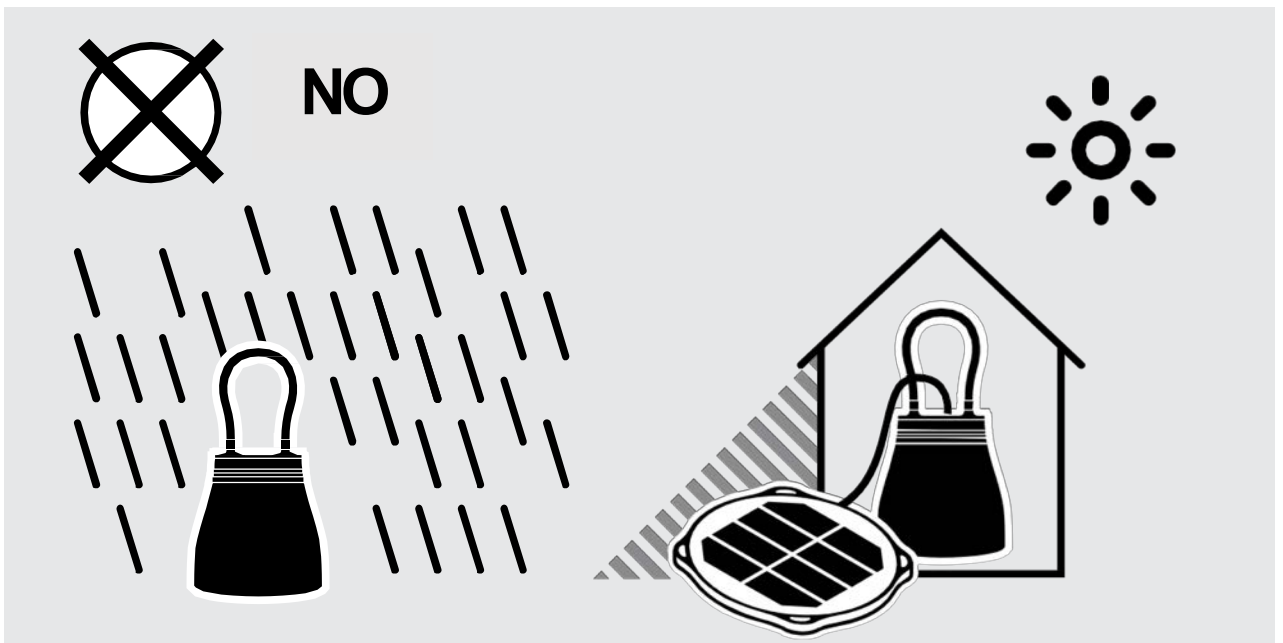
The SunBell 2.0 will charge almost all mobile phones but charging smart phones will drain the battery completely.

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Safe and Efficient Use



Keep the lamp inside when it rains. Place the solar panel facing the sun when it's not raining.

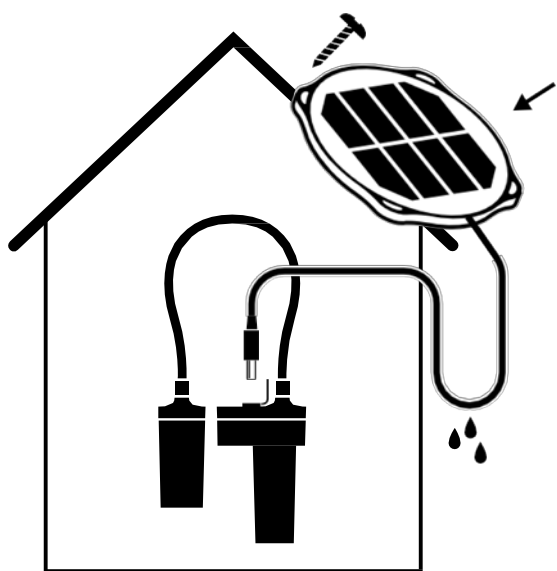


Do not leave the lamp in the rain. Check that the solar panel is not in the shade.

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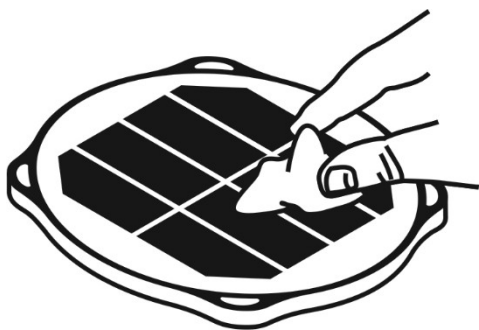
Maintenance

Take care of the lamp & solar panel



Place solar panel towards the sun.

In case of rain, position the cable so that water can drip off and drain away **before it reaches the battery unit.**



Clean the solar panel regularly with a soft cloth. Any dust and dirt will slow solar charge time. **Do not use any chemicals!**



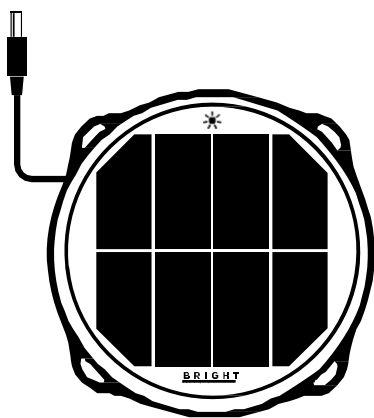
Connectors must be protected when the cables are not connected. **This will prevent dust and moisture from getting inside the socket.**

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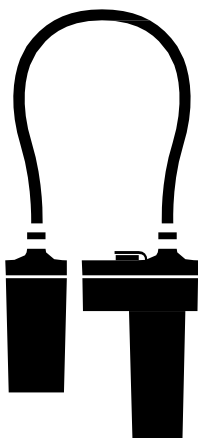
Important information about the product



- Do not open the battery or light unit
- Please do not remove the battery from the product



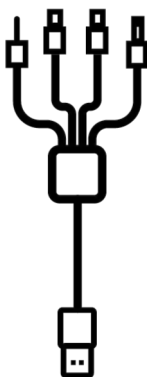
Solar panel



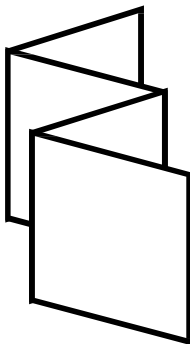
LED and battery unit



Lamp shade



Phone charging cable



Instruction manual

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ANNEX I

UNHCR SOLAR-POWERED LIGHTS ITB/2017/869 - PRODUCT INFORMATION SHEET

* This form shall be filled for each model of Portable lamp submitted
 * A separate sheet shall be completed for each model offered
 * Supplier shall insert N/A in boxes which do not apply to that product (e.g. USB ports for products without phone charging capacity - items 22-28)
 * All information is as requested in Annex B of the ITB

	Description of information required	Product information (please complete each section)
1	Supplier Name	W. Giertsen Energy Solutions AS
2	Supplier Address	Nygårdsviken 1, NO-5165 Laksevåg-Bergen, Norway
3	Manufacturer	Bright Products AS
4	Model	SunBell 2.0
5	Type	Y (type modified to fit technical specifications)
6	Mobile Device Charging Capacity	Yes

SOLAR PV PANEL		
7	Panel Type (Monocrystalline, polycrystalline, thin film etc)	Monocrystalline
8	Output rating at 1,000w/m ² @ 25°C (watt peak)	1.7 W at 4 V
9	PV Panel Open circuit Voltage Voc	5.05 V
10	PV Panel Short circuit current Isc	0.430 A
11	PV Panel Maximum power point Wp	1.7 Wp
12	% efficiency at 25°C, % tolerance	19 %, ± 2%
13	% efficiency at 35°C, % tolerance	18.5%, ± 2%
14	% efficiency at 45°C, % tolerance	17.5% ± 2%

BATTERY		
15	Indicate the battery chemistry and composition	LiFePO4
16	Rated maximum number of full cycles for the battery (counting one cycle for full discharge & charge)	2,000 cycles
17	Battery operating voltage (volts)	3.2 V
18	Battery capacity (ampere hours)	1,500 mAh
19	Time to fully charge a fully discharged battery at 1,000w/m ² and 25°C (discharged to max. level permitted by DoD protection)	< 5h to fully charge the battery at 1000w/m ² and 25°C.
20	Is the battery easily replaceable	Yes, easy to replace with regular screw driver T7
21	External source for charging (if any)	Yes
	External charger	Accessories: wall charger and car charger
	Additional PV	N/A
	Plug type	DC Barrel Jack Plug
	Voltages	5 V
22	Details of charge controller circuit (indicate if separate document attached)	Deep discharge protection battery voltage ranged between 2.81 and 2.82 V/cell. Overcharge protection battery voltage ranged between 3.55 and 3.61 V/cell. The battery has trickle charge and reverse polarity protection. (Test report of Lighting Global Quality Test Method).
23	Maximum Depth of Discharge value	100 %
24	Cable length from solar panel to battery/light unit (metres)	4 m
25	Charging indicator	Yes
26	Battery level indicator	Yes
27	Number of output ports for phone charging or other functions	1
28	Max. output current per port.	
	Port 1	500 mA at 5 V
	Port 2 (if any)	N/A
	Port 3 (if any)	N/A
	Port 4 (if any)	N/A

LIGHT		
29	LED Type and model (including driver details)	Type: Samsung LED LM561B Plus. Model: SPMWHT541MP5WARGS4, Driver type: Pulse Width Modulation (PWM).
30	Colour temperature (Kelvin)	4,000 K
31	Ra Value (colour rendering index)	84
32	Light power for each light setting (watts)	
	Minimum	0.055 Watt
	Medium (If any)	0.2 Watt
	Medium (If any)	N/A
	Medium (If any)	N/A
	Maximum	0.77 Watt
33	Light output at each light setting (lumen)	
	Minimum	5 lumen
	Medium (If any)	20 lumen
	Medium (If any)	N/A
	Medium (If any)	N/A
	Maximum	80 lumen

34	% lumen output after 2,000 hours at maximum light setting. (Please attach a graph of lumen output Vs hours)	104 %
35	% lumen output after 6,000 hours at maximum light setting. (Please attach a graph of lumen output Vs hours)	95-98%
36	Stated operating time at each light setting (powered by battery only) (minutes)	
	Minimum	4800+
	Medium (If any)	1200+
	Medium (If any)	N/A
	Medium (If any)	N/A
	Maximum	360+

PRODUCT WEIGHT & DIMENSIONS		
37	Product weight - excluding packaging (grams)	550 g
38	Packaging weight (grams)	116 g
39	Battery weight (grams)	153 g
40	PV Panel Weight (grams)	240 g
41	Product dimensions	
	Height	15 cm
	Width	15 cm
	Length	16 cm
	Max. Circumference (if applicable)	N/A
42	Number of products per pallet	180 units
43	Number of products per container (20ft standard container)	5,040 palletized; 7,120 unpalletized
44	Number of products per container (40ft standard container)	10,800 palletized; 14,680 unpalletized

GENERAL PRODUCT INFORMATION		
45	IP rating	IP64
46	Production Capacity per year (numbers of lights)	1,577,000 units
47	Delivery time	26-30 days "made to order" but could be sublimented by EX-Stock/white stock to have product immediately available. The full delivery time breakdown can be found in the supporting documentation within WGES Appendix 1.
48	Product warranty (yrs)	
	Total Product	2 years
	Solar Panel	2 years
	Battery	2 years
	Light	2 years
49	Estimated life-expectancy of the product (A.hours, B.cycles, C.temperatures). (please provide separate document showing basis for estimation)	A. 50,000 hours B. 2,000 cycles C. Charging 0 to 55 celsius, discharge temp -20 to 60 celsius
50	Estimated Shelf life (storage unused)	Batteries should be recharged every 1,5-2 years