Nonconformities ICRC classification definitions:

Critical nonconformity : Any discrepancy which might harm a user or makes it impossible to use the product properly is considered to be critical. Lots with Critical discrepancy are subject to refusal.

Major nonconformity : Any discrepancy which makes the use of the product less efficient than expected is considered to be major. Lot with Major discrepancies can be accepted.

Minor nonconformity : Any discrepancy which does not have an influence on the performance of the product is considered to be minor. Lot with Minor discrepancies can be accepted.

Non-Conformities classification and related penalties:

Critical: (AQL 0)

Nonconforming characteristic (number of nonconforming items • Rejection number. ISO-2859-1) implies a penalty of 10% of the value of the total PO and is subject to lot refusal.

Major: (AQL 4.0)

Nonconforming characteristic (number of nonconforming items • Rejection number. ISO-2859-1) implies first time a penalty of 0.5% of the value of the total PO, second time 1 %, and + 0.5% at every occurance for the duration of the contract per each nonconforming characteristic. >10% of nonconforming items is subject to lot refusal

Minor: (AQL 6.5)

Nonconforming characteristic (number of nonconforming items • Rejection number. ISO-2859-1) implies 2 times without penalties, third time a penalty of 0.5% of the value of the total PO, fourth time 1 %, and + 0.5% at every occurance for the duration of the contract per each nonconforming characteristic. >10% of nonconforming items is subject to lot refusal.

Quality Control and Acceptance Quality Limit:

The Method of testing is drawn from ISO-2859-1 International Standards (table1: Sample size code letters, and table 2-A: Single sampling plans for normal inspection). The samples will be taken randomly by the buyer from the delivered items and then inspected.

The buyer can decide either to inspect the lot at ICRC QC laboratory or to use an inspection company for analysis, or both. Transport to laboratory and analysis cost for lab testing are at expence of ICRC.

The seller can contest the results of the Quality Control done at ICRC warehouses by requesting a lab testing. In this case transport to laboratory and analysis cost for lab testing are at expence of the seller.

Nonconformity: non-fulfilment of a specified characteristic requirement.

Nonconforming item: item with one or more nonconformities.

Lot: definite amount of some product, material or service, collected together

Sample: set of one or more items taken from a lot and intended to provide information on the lot

ICRC	AQL Family tents Specifications and Quality Control				PU-I-014-AQL Family Tents-en-rev1.4
					Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**
Family tent items	**Characteristics**	**Nonconformities classification**	**QC type**	**AQL**	**QC Inspection at ICRC warehouses and lab testing**
Tent: 1.1 Specifications for the outer-tent roof canvas	1.Composition ISO 1833	**C**	Measurement	0	Polyester and cotton blended fibres yarns. cotton: 40% (±10), polyester: 60% (±10) i.e., 50 to 70% polyester, with balance in cotton.
	2.Specific weight (g/m²) ISO 3801	**m**	Measurement	6.5	350g/m² (±15%) in finished state.
	3.Colour	**m**	Ok/Nok	6.5	Natural white, not dyed.
	4.Water-vapour permeability ISO 17229	**M**	Measurement	4.0	Minimum 2000g/m²/24h.
	5.Tensile strength (N) Apply ISO 13934-1to 10 test pieces of plain canvas. Apply ISO 13935-1 on 5 test pieces with seam, cut from the tent perpendicular to the seam, in the roof.	**M**	Measurement	4.0	Warp and weft 850N minimum. For plain canvas test: 5 test pieces in warp direction, 5 test pieces in weft. On seams, the test is applied to 50mm width on the sample, as described in ISO 13935-1 page 7.
	6.Tear resistance, started (N) –ISO 9073-4	**M**	Measurement	4.0	Warp and weft 60N minimum.
	7.Water-penetration resistance ISO 811 Test pieces of plain canvas.	**M**	Measurement	4.0	30hPa minimum, increasing speed at 100mm per minute.
	8.Rain-penetration resistance ISO 5912:2003 The test piece is the complete tent. (attention: ISO 5912:2011 does not apply) Outer tent: There should be not more than 10 drops of water in maximum 2 places, penetrating inside the outer tent, including through wick effect. Only the 4 places at the top of the door poles may have some leakages through the eyelets. Inner tent: There should be not water penetrating inside the inner tent, or wetting the inner tent canvas.	**M**	Ok/Nok	4.0	Apply procedure as per point 4.2.11 in ISO 5912:2003 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. The test operator should ensure that the set up of the test will not create condensation inside the tent that could be interpreted as leakages.
	9.Dimensional variation when soaked in water ISO 7771	**m**	Measurement	6.5	Maximum 3%
	10.Tensile strength resistance after exposure to micro-organisms under ISO 13934-1 and ISO13935-1 after completing BS 6085 (soil burial -28 days). Apply on 10 test pieces of plain canvas and 5 test pieces with seams.	**M**	Measurement	4.0	30% maximum strength-loss on minimum required value and 50% maximum strength loss on original value of the same product. For plain canvas test: 5 test pieces in warp direction, 5 test pieces in weft. On seams, the test is applied to 50mm width on the sample, as described in ISO 13935-1 page 7.
	11.Efficiency of water-repellent treatments after soaking in water. Same test as point 7, on samples soaked in water under ISO7771 without wetting agent.	**M**	Measurement	4.0	30hPa minimum, increasing speed at 100mm per minute.
	12. Efficiency of fungicides product after soaking in water. Same test as point 10, on samples soaked in water under ISO7771 without wetting agent.	**M**	Measurement	4.0	10% maximum additional loss as compared to the results from point 10.
	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.	**M**	Measurement	4.0	30% maximum strength-loss on minimum required value and 50% maximum strength loss on original value of the same product. Numbe of test pieces: 3 test pieces in warp direction, and 3 test pieces in weft.

ICRC	AQL Family tents Specifications and Quality Control				PU-I-014-AQL Family Tents-en-rev1.4
					Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**
Tent: 1.2 Specifications for the outer-tent wall canvas	1. Composition ISO 1833	**C**	Measurement	0	Polyester and cotton blended fibres yarns cotton: 40% (±10), polyester: 60% (±10) i.e., 50 to 70% polyester with balance in cotton.
	2. Specific weight (g/m²) ISO 3801	**m**	Measurement	6.5	200 g/m² (±10%) in finished state.
	3. Colour	**m**	Ok/Nok	6.5	Natural white, not dyed.
	4. Water-vapour permeability ISO 17229	**M**	Measurement	4.0	Minimum 2000g/m²/24h.
	5. Tensile strength (N) Apply ISO 13934-1on 10 test pieces of plain canvas. Apply ISO 13935-1 on 5 test pieces with seams, cut from the tent perpendicular to the seam.	**M**	Measurement	4.0	Warp and weft 650N minimum. For plain canvas test: 5 test pieces in warp direction, 5 test pieces in weft. On seams, the test is applied to 50mm width on the sample, as described in ISO 13935-1 page 7.
	6. Tear resistance, started (N) ISO 9073-4	**M**	Measurement	4.0	Warp and Weft 40N minimum.
	7. Water-penetration resistance ISO 811 Test pieces of plain canvas.	**M**	Measurement	4.0	20hPa minimum, increasing speed at 100mm per minute
	8. Dimensional variation when soaked in water ISO 7771	**m**	Measurement	6.5	Maximum 3%
	9. Tensile strength resistance after exposure to micro-organisms under ISO 13934-1 and ISO 13935-1 after BS6085 (soil burial - 28 days). Apply on 10 test pieces of plain canvas and 5 test pieces with seams.	**M**	Measurement	4.0	30% maximum strength-loss on minimum required value and 50% maximum strength-loss on original value of the same product. For plain canvas test: 5 test pieces in warp direction, 5 test pieces in weft. On seams, the test is applied to 50mm width on the sample, as described in ISO 13935-1 page 7.
	10. Efficiency of water-repellent treatments after soaking in water. Same test as point 7, on samples soaked in water under ISO7771 without wetting agent.	**M**	Measurement	4.0	20hPa minimum, increasing speed at 100mm per minute.
	11. Efficiency of fungicides product after soaking in water. Same test as point 9, on samples soaked in water under ISO7771 without wetting agent.	**M**	Measurement	4.0	10% maximum additional loss as compared to the results from point 9.
	12. Tensile strength after exposure to UV and moisturizing (climatic simulation). Exposure in a climatic chamber under ISO 4892-2, type A, 360 hours, followed by tensile test under ISO 13934-1.	**M**	Measurement	4.0	30% maximum strength-loss on minimum required value and 50% maximum strength-loss on original value of the same product. Numbe of test pieces: 3 test pieces in warp direction, and 3 test pieces in weft.
Tent: 1.3 Specifications for the inner tent canvas	1.Composition ISO 1833	**C**	Measurement	0	Polyester and cotton blended fibres yarns. cotton: 40% (±10), polyester: 60% (±10) i.e., 50 to 70% polyester, with balance in cotton or cotton 100%.
	2.Specific weight (g/m²) ISO 3801	**m**	Measurement	6.5	130 g/m² ±10% in finished state
	3.Colour	**m**	Ok/Nok	6.5	Dyed sand or cream colour
	4.Water-vapour permeability ISO 17229	**M**	Measurement	4.0	Minimum 2000g/m²/24h
	5.Tensile strength (N) ISO 13934-1	**M**	Measurement	4.0	Warp and weft 300N minimum.
	6.Tear resistance, started (N) –ISO 9073-4	**M**	Measurement	4.0	Warp and weft 20N minimum.
	7.Tensile strength resistance after exposure to micro-organisms under ISO 13934-1 after BS 6085 (soil burial - 14 days). Apply on 10 test pieces of plain canvas	**M**	Measurement	4.0	30% maximum strength-loss on minimum required value and 50% maximum strength-loss on original value of the same product. 5 test pieces in warp direction, 5 test pieces in weft

ICRC	AQL Family tents Specifications and Quality Control				PU-I-014-AQL Family Tents-en-rev1.4
					Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**
Tent: 1.4 Specifications for mud flap PE fabric	1. Composition	**C**	Ok/Nok	0	Woven, high-density polyethylene black fibres, fabric laminated on both sides with low-density polyethylene coating.
	2. Specific weight (g/m²) ISO 3801	**m**	Measurement	6.5	180gr/m² (±5%)
	3. Tensile strength (N) Apply ISO 13934-1on 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.	**M**	Measurement	4.0	Warp and weft 650N minimum. Elongation 15% to 25%. For plain PE fabrictest: 5 test pieces in warp direction, 5 test pieces in weft. On seams, the test is applied to 50mm width on the sample, as described in ISO 13935-1 page 7.
	4. Tear resistance (N) ISO 4674-1 (method B)	**M**	Measurement	4.0	Warp 100N minimum, weft 100N minimum.
	5. Resistance to micro-organisms	**M**	Ok/Nok	4.0	Insensitive to micro-organisms.
	6. UV resistance as percentage of tensile strength-loss under ISO 1421, after 1500 hours UV under ASTM G53/94 (UVB 313nm peak)	**M**	Measurement	4.0	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	**m**	Ok/Nok	6.5	White
Tent: 1.5 Specifications for the groundsheet PE fabric	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.				
	1. Composition	**C**	Ok/Nok	0	Woven polyethylene fabric, coated on both sides with low-density polyethylene.
	2. Specific weight (g/m²) ISO 3801	**m**	Measurement	6.5	180gr/m² (±5%)
	3. Tensile strength (N) ISO 1421	**M**	Measurement	4.0	Warp 300N minimum, weft 300N minimum.
	4. Tear resistance (N) ISO 4674-1 (method B	**M**	Measurement	4.0	Warp 60N minimum, weft 60N minimum.
	5. Resistance to micro-organisms	**M**	Ok/Nok	4.0	Insensitive to micro-organisms.
	6. UV resistance as percentage of tensile strength-loss under ISO 1421 after 300 hours UV under ASTM G53/94 (UVB 313nm peak)	**M**	Measurement	4.0	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	**m**	Ok/Nok	6.5	White
1.6 Specifications for the mosquito net, inner-tent doors and windows	1.Composition ISO 1833	**C**	Measurement	0	Polyester 100%, or PE 100%, white
	2. Fabrication ISO 8388	**M**	Ok/Nok	4.0	Warp knitted
	3. Denier	**M**	Measurement	4.0	75/100 for the polyester100 to 150 for the PE
	4. Filament	**M**	Ok/Nok	4.0	Multi-filament 36 or higher for the polyester Monofilament for the PE
	5. Mesh size	**M**	Measurement	4.0	Minimum 25 holes/cm² (156 holes/inch²)
	6. Weight ISO 3801	**m**	Measurement	6.5	Minimum 40 g/m² for polyester Minimum 47 g/m² for PE
	7. Shrinkage ISO 5077	**M**	Measurement	4.0	5% maximum
	8. Bursting strength ISO 13938	**M**	Measurement	4.0	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	**M**	Measurement	4.0	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

Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**

Tent: 1.7 Specifications for the outer-tent guy points	1. Composition	**C**	Ok/Nok	0	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. Sample size: width 300mm x length 500mm Sample to be cut at the centre guy line for the 6 side points (500mm length includes 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.	**M**	Measurement	4.0	3000N minimum for the 6 side guy points (3 test pieces). 1400N minimum for 4 other guy points (2 test pieces). Elongation of the elastic device under 1000N: 50mm minimum, 100mm maximum
	3. UV resistance in percentage of tensile strength-loss after exposure in a climatic chamber under ISO 4892-2, type A, 360hours.	**M**	Measurement	4.0	30% maximum strength-loss on minimum. required value and 50% maximum strength-loss on original value of the same product 1 test piece at 1400N, 1 test piece at 3000N.
	4. Colour	**m**	Ok/Nok	6.5	Black ropes and straps, galvanized steel.
Tent: 1.8 Specifications for hammer	Hammer	**m**	Ok/Nok	6.5	Quantity: 1 hammer
	Type	**m**	Ok/Nok	6.5	Sledge hammer, 1kg head, with 30cm wooden handle. In accordance with ISO 15601 and the specification listed below.
	Handle	**m**	Ok/Nok	6.5	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.
	Pull apart test	**M**	Ok/Nok	4.0	Clamp head in a vice jaw after two series of 25 vigorous blows from varying delivery angles. Apply traction of 500N while trying to pull ou the handle; there should be no damage to the hammer's head or handle, and the handle should remain firmly attached to the head.
2.1 General point for finished product	Performance	**M**	Measurement Ok/Nok	4.0	The final product must be able to withstand a 75km/h wind without any damage and remain securely attached to the ground without any loss of tension. When closed, the tent must provide good protection against dust, wind, rain, snow, insects and small crawling fauna. Minimum roof-load must be 300N/m² under ISO 8937 (snow load for camping tent).
	Seams and stitching	**M**	Ok/Nok	4.0	All seams that are subject to possible tension must be double lock stitched and waterproofed. Stitching produces strong, long-lasting, neat and professional looking seams. The stitch count as well as UV and rot-proof sewing threads must be appropriate and suited to the fabric. Stitching must provide strong, waterproof seams with at least the same lifespan as the tent. The seams must be oriented to facilitate the unimpeded runoff of rain: avoid creating water lines or water pockets. Wherever possible, the colour of the sewing thread should be compatible with the fabric colour.
	Ropes, webbing bands, toggles, loops, reinforcement nettings and all other accessories	**M**	Ok/Nok	4.0	All ropes and webbing bands must be heat cut. All ropes are knotted to the tent at the factory. All of the above-mentioned items must be rot-proof and UV-proof (to the same degree as the tent canvas to which they are sewn). To avoid water penetration through capillarity action, no webbing or rope can be sewn using a stitch that goes from the outside to the inside of the tent; alternatively, they must be made of waterproof materials. Outer-tent laces and loops can be made of the same canvas as the tent roof or walls, and inner tent loops can be made of the same canvas to which they are sewn.
	Zip fasteners	**M**	Measurement	4.0	All the zip fasteners must conform to a resistance of 700N lateral traction under ISO 5912.

Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**

2.1 General point for finished product	Eyelets	**M**	Measurement	4.0	All metal eyelets must be rustproof and correctly placed, reinforced with a fabric patch and have a minimum inner diameter of 10mm.
	Metal rings	**M**	Ok/Nok	4.0	All metal rings must be rustproof, galvanized and welded closed.
	Long-term storage	**M**	Ok/Nok	4.0	The tent must be treated and packed in such a way that the tent can be stored for a 5-year minimum under proper storage conditions without any damage or reduction in performance. The tent must be manufactured and packed in clean and appropriate conditions to avoid contamination from soil, dust and other contaminants.
3.1 General shape of the outer tent	Requirements	**M**	Ok/Nok	4.0	The outer tent must be comprised of several cloth sections, forming the general shape of the tent. The seams must run from the ridge down to the edges of the roof, perpendicular to the ridge line. The outer tent must be supported by 3 upright poles,1 ridge pipe, 6 side poles, 4 door poles, 3 guy ropes on each side, and 2 guy ropes a each end. The attachment points for each guy rope must be reinforced.
3.2 Outer tent dimensions / erecting system	Requirements	**M**	Measurement	4.0	Centre height: 2.2m +/-3%
	Requirements	**M**	Measurement	4.0	Width: 4m +/-3%
	Requirements	**M**	Measurement	4.0	Ridge length: 4m +/-3%
	Requirements	**M**	Measurement	4.0	Side wall height: 1.25m +/3%
	Requirements	**M**	Measurement	4.0	Door height: 1.4m +/-3%
	Requirements	**M**	Measurement	4.0	Centre base length: 6.5m +/-3%
	Requirements	**M**	Measurement & Ok/Nok	4.0	The outer tent must rest on the ridge pipe supported by 3 upright poles, one at each end and in the middle of the ridge pipe. The outer ten must be maintained in position on the ridge pipe by 2 100mm-long canvas sleeves with a Velcro fastening running the full 100mm length the sleeves are placed 200mm from each end of the ridge pipe. The side walls must be supported by 6 poles; metal hooks on the top of the poles hook into eyelets in the webbing band (25mm wide) sewn to the top of the wall on the inside. Side-wall poles must not protrude through the outer tent. The hooks at the top of the side poles must be as flat as possible. The front and back vestibules must be supported by 2 poles at the top corners of the doors, with pins going into the corresponding eyelets on the roof edge, through the guy point webbing.
3.3 Reinforcement	Requirements	**M**	Measurement & Ok/Nok	4.0	The 10 guy points on the roof must be made of 50mm-wide polyester straps, and be sewn to the eave (an extension of the roof). The eave must be made of a double fold of roof canvas, 200mm in width, and run the perimeter of the tent roof, including above the doors. The eave must be part of the roof panel, without any break (seam) in the canvas. On the 6 guy points located on the sides of the tent, an additional layer of PVC-coated canvas must be added on the inside to protect against abrasion from the tops of the poles. Additionally, the 6 guy points on the side must be reinforced with a second triangular piece of canvas, 300mm in length (one side), sewn to the edge of the eave with the point extending into the roof section. The entire length of the ridge must be reinforced on the inside with a 150mm strip, in the same fabric as the roof. The attachment sleeves for the ridge pipe must be sewn to this reinforcement.
3.4 Attachment System (guy lines)	Requirements	**M**	Measurement Ok/Nok	4.0	The outer tent must be anchored to the ground using 10 guy lines attached to 10 metal pegs. Each guy point, on both sides of the tent, require a loop made of 50mm-wide webbing. The webbing length allows, when folded in two, fo the creation of a 30mm-long loop, at a minimum. This should be stitched to the tent with a strong Z sewing, minimum 50mm in length. The webbings for the door pole guying points must be 250mm long, in order to cover the tops of the poles and to have the eyelet placed in the webbing. The 2 central side webbing loops must be sewn perpendicular to the side edges of the tent, the 4 corners webbing loops must make an equal angle with the roof and vestibule edge and the 2 front and 2 rear webbing loops aligned with the vestibule's roof stitching . See drawing. 10 metal rings must be attached to the loops with an elastic device. The ropes pass through the 10 metal rings and when tension is applied, the ropes slide through the metal rings. At the other end, the ropes must have a preformed knotted loop to place over the peg. The attachment points must be made in such way that they comply with the resistance characteristics specified in part 1.7 of this specification.

Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**

3.5 side Windows of the outer tent	Requirements	**M**	Measurement & Ok/Nok	4.0	The outer tent must have 2 long windows protected with a rain flap running the length of both sides of the tent. The inside dimensions of the windows must be 3600mm wide by 600mm high; the top edge of the window must be situated 100mm below the roof of the tent. The window openings must be reinforced either with strong reinforced netting (large holes, strong plastic net) or strips of 20mm polycotton webbing, reinforcing the window horizontally (1 webbing) and vertically (7 webbings). The webbings must be sewn to the edges of the window and to the mosquito netting. The window flaps are made of PE sheet similar to the mud flap material. Each window flap must be 3960mm wide x 700mm high and stitched 50mm above the top of the window edge. The flap must have a strip of 25mm-wide Velcro webbing along the length of its vertical sides and its bottom, sewn 25mm from the edge of the window. Loops and plastic toggles or hooks must be attached to keep the flap open when rolled up.
3.6 Ventilation of the outer tent	Requirements	**M**	Measurement & Ok/Nok	4.0	The outer tent requires 2 ventilation openings, front and back, protected with a rain flap. The vents must be triangular-shaped and situated at the top of both vestibules. The inside dimensions of the vents must be full width of the roof panel by 400mm high. The vent flap must be made such that, when opened, it remains distanced from the ventilation opening with a height of 300mm +/-50mm at its centre. To secure the flap when closed, the cone opening must have a 25mm-wide Velcro strip running its full width. The vent openings must be reinforced either with strong reinforced netting (large holes, strong plastic net) or with two strips of 20mm cotton or polyester webbing that bisects the vent horizontally and vertically. These webbings must be sewn to the edges of the vent opening and to the netting.
3.7 Outer Tent Doors	Requirements	**M**	Measurement	4.0	Size: 1.3m width x 1.4m high Door flaps 1.4m width x 1.6m high: - Upper part 1.4m width x 0.9m high, made of canvas. - Lower part 1.4m width x 0.7m high, made of woven PE fabric.
		M	Measurement Ok/Nok	4.0	The vestibule doors can be used as awnings by moving the front door poles to the 2 eyelets situated at the bottom corners of the doors. Rolled up, door must be held in place by 2 loops and 2 plastic toggles or hooks. The doors must close with a lacing system. The loops of the lacing system must be made of 4mm rope or canvas strips (7 loops and eyelets per door side). The lacing system requires a toggle or hook in order to attach the last loop. The lacing system must be protected by a doubled 50mm-canvas flap to prevent rain and draughts. Each door must be constructed such that one side closes from the inside and the other from the outside.
3.8 Side walls, vestibule walls, mud flaps	Requirements	**M**	Measurement Ok/Nok	4.0	Total height 1.45m; i.e., a 1.25m vertical length plus a 0.2m overlay which rests on the ground. The upper part (top 0.75m) of the walls must be made of a polyester-cotton fabric and the lower part (0.7m) of PE fabric. The mud flaps must be equipped with 22 eyelets (7 on each side including the corners, 2 on each vestibule side) placed on a strip of 50mm-wide webbing running the full-length of the flap (the entire perimeter of the tent); the webbing must be sewn or heat-sealed to the mud flap on the inside at floor level. The thread and stitch length must be appropriate to the materials to avoid tearing along the stitching (not applicable if heat-sealed). The 2 eyelets on the vestibule side mud flap must be placed one next to the door, and one half-way between the door and the tent corner. The outer tent must be attached to the side poles with webbings or canvas strings; these must be stitched to the inner side of the outer tent where the PE joins the polycotton and in front of each side and door pole (10 points in total). The vestibule walls must be made in the same way as the side walls, to complete the outer tent between the doors and the side walls. One of the vestibule walls requires a reinforced chimney hole.
3.9 Chimney reinforcement	Requirements	**M**	Measurement & Ok/Nok	4.0	A chimney reinforcement (non-perforated) must be located 0.5m from a corner at either end of the tent, between the side-wall corner and its adjacent tent-door corner. It must be made of eat-resistant fabric (minimum 900°C). The type of fabric in which the fibres do not loosen and do not tear when cut. The lower edge of the heat-resistant fabric must be 500mm above the ground, where the canvas joins the PE part (a band of canvas of 2 to 3cm is allowed between the PE and the fireproof material). Net inner dimensions of the fireproof part: 250mm width x 600mm height. Chimney flap dimensions: 350mm width x 700mm height. The flap must be stitched, along the bottom, at the lower edge of the chimney opening. To secure the flap, it must have a 25mm-wide Velcro webbing sewn along the entire length of its 2 vertical sides and upper end and sewn to the tent 25mm outside the edge of the chimney opening. The tent fabric must be cut away completely at the chimney opening. The edges of the chimney opening must be hemmed stitched to the inside.

Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**

3.10 Other accessories	Requirements	**M**	Measurement Ok/Nok	4.0	Four 30mm-loops must be attached to the inside of the tent where the inner tent doors have corresponding toggles at the top of the inner tent door zips (refer to inner tent door description). 10 D-rings (25mm x 4mm thickness) must be attached inside the outer tent; the inner tent hooks to these D-rings (refer to inner tent description point 4/4): 6 D-rings must be attached to the webbings at the top of each side-pole position, the remaining 4 must be placed in intermediate positions. 6 D-rings, secured by a piece of 25mm-wide webbing, must be sewn to the mud flaps at floor level inside the tent; the inner tent attachment strings hook onto these D-rings.
3.11 Plastic for document pouch	Requirements	**M**	Measurement Ok/Nok	4.0	On the outside of each left-hand vestibule wall there must be a clear plastic document sleeve. The material must be made of UV-stabilized polyurethane transparent plastic with a minimum thickness of 0.15mm. The lower edge of the sleeve must be 800mm above the ground. The sleeve must have a rain proof opening on the bottom and the two vertical sides sewn to the tent. The inside dimensions of the sleeve, after sewing, must be 230mm high by 310mm wide.
3.12 Manufacturer identification	Requirements	**m**	Ok/Nok	6.5	Made with a strong textile tag of 10x10cm with durable print, and stitched inside the outer tent, in the vertical seam of one tent corner. The tag should include the manufacture's name, the batch number and the production's date.
4.1 General shape of the inner tent	Requirements	**M**	Ok/Nok	4.0	The inner tent must be square-shaped and hang inside the outer tent structure. All dimensions must be designed to ensure a 10cm air gap between the outer and inner tents. The inner tent must have a chimney reinforcement, 2 windows, 2 doors and 2 vents. The bathtub groundsheet (floor) must be made of woven PE fabric, and be sewn to the inner tent extending up the sides of the wall to ensure the inside remains waterproof. Stitching is not permitted on the lower part of the groundsheet to ensure 100% waterproofing.
4.2 Dimension of the inner tent	Requirements	**M**	Measurement	4.0	Inner tent centre height of 2100mm +/-3%
	Requirements	**M**	Measurement	4.0	Inner tent width of 3800mm +/-3%
	Requirements	**M**	Measurement	4.0	Inner tent wall height of 1150mm +/-3%
	Requirements	**M**	Measurement	4.0	Inner tent base length of 3950mm +/-3%
4.3 Doors, inner tent	Requirements	**M**	Measurement & Ok/Nok	4.0	Each door opening must be 1m wide and 1.75m above the floor (1.55m measured from the upper edge of the groundsheet). Door panels (1.1m wide) must be placed in the centre of the front and rear walls. A door must be made of the same material as the tent and close with polyester n°10 coil zip fasteners on the 2 vertical sides. The zip fasteners must open from both the inside and outside. The doors must have a 200mm PE flap at the bottom, made of the same material as the groundsheet. Black UV-stabilized ropes or canvas laces with plastic toggles or hooks must be provided to keep the door opened when rolled up. Mosquito nets (1.1m wide) must be placed on the inside of the doors. The 2 vertical sides must close with n°10 polyester coil zip fasteners. The bottom edge of the mosquito flap must close with one piece of 25mm-wide Velcro along the entire width. To facilitate door closing: - two 80mm-elastic webbing loops with an attached toggle or hook must be placed along the sides of each door, at the top, aligned with the zips. These attach to the corresponding 3cm loops inside the outer tent. - 2 webbing loops with eyelets must be placed at the bottom of each door, aligned with the zips. These are used to attach the tent to the ground with 6mm x 230mm pegs. The 200mm long webbing loops must be stitched into the seam where the PE joins the fabric.

Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**

4.4 Inner Tent Suspension System	Requirements	**M**	Measurement & Ok/Nok	4.0	The inner tent suspends between the 2 end poles, attached (knotted) by 2 strings or strips, 25mm by 200mm long at each end. The inner tent must be suspended from the ridge pipe by 8 galvanized 4mm wire hooks mounted on 8 50mm-wide webbing loops. The total length of a loop including its metal hook must be 100mm. One hook must be placed at each end, two in the centre (100mm either side of the centre pole gap) and the 4 remaining hooks equally spaced on each side. The side walls of the inner tent must hook, using strong plastic or metal hooks mounted on webbing loops, to a corresponding D-rings on the inside of the outer tent, at the top of each side pole and in the intermediate positions. The loops are made of 25mm-wide webbing bands. The complete length of the attachment including the hook must be 100mm. 5 hooks in total per side at the top of the wall. 3 hooks in total per side at the bottom of the wall. The attachment loops are elasticized for the bottom of the wall, there are non-elasticized for the top of the wall. Elastic webbing bands for the bottom of the walls are stitched to the tent in the seam where the PE and fabric join. The inner tent must have 28 20mm-loops, made of canvas; these can be used to attach the inner lining or the inner partition - both of which are optional features. The loops must be attached to the inside of the inner tent at every place where the inner tent attaches to the outer tent or to the frame, with an additional 2 loops at the bottom of each door (8 at the ridge, 5 at the top of each side wall, 3 at the bottom of each side wall and 2 at the base of each doors). see drawing below.
4.5 Inner tent ventilation system	Requirements	**M**	Measurement & Ok/Nok	4.0	The inner tent has 2 triangular vents in each gabble top, made of mosquito netting reinforced with 20mm webbings. The netted triangle must fill the space from the ridge to the top of each door. The ventilation system must close from inside with a flap that rolls downwards, and seal with 25mm-wide Velcro on all sides. The inner tent has two long vents on each side of the ridge, made of mosquito netting reinforced with 20mm webbings. Dimension: Each side is 200mm wide x full length of the ridge. The ventilation system must close from inside with a flap stitched along the ridge, hanging freely when open, and closing with 25mm-wide Velcro on all sides.
4.6 Inner tent windows	Requirements	**M**	Measurement & Ok/Nok	4.0	The inner tent has 2 windows of equal size (and reinforcement) that align with the outer tent windows. The flaps, made of the same material as the inner tent, must be sewn from the inside and open downwards. The flaps hang freely when open and close using a 25mm-wide Velcro strip on three sides.
4.7 Accessories inside the inner tent	Requirements	**M**	Measurement & Ok/Nok	4.0	To hang light-weight items, three 20mm-hooks (mounted on 20cm webbing) and one pouch, made of netting material attached on 3 sides, of 150 x 200mm inner net dimension, must be sewn inside the inner tent at the ridge. The pouch hangs from the ridge on the same spot as the 2nd ridge suspension hook; the 3 light weight hooks are placed at the same spots as the 3rd, 6th and 7th ridge suspension hooks.
4.8 Groundsheet	Requirements	**M**	Measurement & Ok/Nok	4.0	The integrated groundsheet must be made of PE woven fabric. The seam, attaching the groundsheet to the sides of the inner tent, must be 200mm above the floor. To avoid water infiltration no stitched seams are permitted, all groundsheet seams must be welded (heat sealed) and have a 25mm overlap. A reinforced patch, 150 x 150mm, of the same material as the groundsheet must be glued or sealed to the centre of the groundsheet to prevent the centre pole from damaging the groundsheet. The groundsheet must be hooked to the outer tent D-rings with 6 elastic webbings and plastic hooks, 20mm in width.
4.9 Chimney reinforcement	Requirements	**M**	Measurement	4.0	Situated 0.5m from one of the tent corners, between the corner of one side wall and the corner of the adjacent tent door. Inside dimensions: 250mm width x 800mm height. The lower edge of the heat-resistant fabric must be 300mm above the ground.
		M	Ok/Nok	4.0	1 chimney reinforcement (non-perforated) must be made of heat-resistant fabric (minimum 900°C). The tent fabric must be completely cut away from around the chimney opening and the edges hemmed stitched.
4.10 Inner partition	Requirements	**M**	Ok/Nok	4.0	Quantity: 1 partition
		M	Ok/Nok	4.0	One partition running from either sides of the centre pole to the side walls, constructed from 2 half-partitions, that can be stitched together at the top. The partition is attached to the loops on the inner tent at the roof and wall levels with minimum 6 pairs of string or hooks/toogles with loops, and to the centre pole with 2 pair of string. The partition can be maintained open with 2 additional pair of string or Velcro. (see drawing below)
4.11 Safety information tag	Requirements	**m**	Ok/Nok	6.5	Safety information must be available inside the tent is the form of a durable print on a piece of canvas stitched inside the inner tent with the text found in annex at the end of these specification.

Nonconformities classification: Critical:**C**; Major:**M**; Minor:**m**

5.1 Poles	Ridge pipe 4m	**M**	Ok/Nok	4.0	Quantity: 1 Ridge pipe
		M	Measurement Ok/Nok	4.0	4m long, galvanized or painted steel pipe with a 30mm-minimum outer diameter and a minimum 1.2mm wall thickness, in 2 or 4 pieces depending on the type of packaging. The ends of the ridge pipe must be reinforced with 2 short 100mm-long pipes with an outer diameter of 27.5mm, inserted and point welded at both ends of the ridge. 22.5mm-holes drilled 20mm from both ends, into which the upright poles to fit. The ends of the ridge pipe must be protected with a plastic cap devoid of sharp or cutting edges. Each section should fit together with a male and female 100mm joint, made with a 200mm long inserted pipe point-welded or crimped into one of the pipes (not to be made with pressreduced pipe diameter).
	Upright poles 2.2m	**M**	Ok/Nok	4.0	Quantity: 2 poles
		M	Measurement Ok/Nok	4.0	2200mm each (end plug included), galvanized or painted steel pipe with a minimum outer diameter of 25mm and minimum 1.2mm wall thickness, in one or two pieces depending on the type of packaging. The top 40mm of the 2 poles must have a narrower diameter of 21.5mm (end plug included) to insert into the ridge pipe. The top end of the 2 poles must have a protruding plastic bushing to protect the tent from the edges of the pipe. The base of the 2 upright poles must have a metal or plastic base plate 50mm in diameter. One central and upright 2170m-pole (size without U-bracket), galvanized or painted steel pipe with a minimum 30mm outer diameter and minimum 1.2mm wall thickness, comes in one or two pieces depending on the type of packaging. This pole comes with a 30mm-long U-shaped metal bracket. The base of the central pole must have a soft flexible plastic or rubber base plate 50mm in diameter, that will not damage the ground sheet while keeping proper stability. Each section should fit together with a male and female 100mm joint, made with a 200mm long inserted pipe point-welded or crimped into one of the pipes (not to be made with pressreduced pipe diameter).
	Sides poles 1.25m	**M**	Ok/Nok	4.0	Quantity: 6 poles
		M	Measurement Ok/Nok	4.0	1.25m-side poles of painted or galvanized steel pipe with a minimum outer diameter of 19mm and a minimum 1mm wall thickness, in one or two pieces depending on the type of packaging. The top of each pole must have a bent 20 to 30mm pin form into a flat hook. Pole base plates must be made from a round piece of plastic or metal, 40mm in diameter, with a 20 to 30mm pin pointing downwards. Each section should fit together with a male and female 100mm joint, made with a 200mm long inserted pipe point-welded or crimped into one of the pipes (not to be made with pressreduced pipe diameter).
	Door poles 1.4m	**M**	Ok/Nok	4.0	Quantity: 4 poles
		M	Measurement Ok/Nok	4.0	1.4m-door poles, painted or galvanized steel pipe with a minimum outer diameter of 19mm and a minimum 1mm wall thickness, in one or two pieces depending on the type of packaging. The top of each door pole must have a bent 20 to 30mm pin form into a flat hook. Pole base plates must be made from a round piece of plastic or metal, 40mm in diameter, with a 20 to 30mm pin pointing downwards. Each section should fit together with a male and female 100mm joint, made with a 200mm long inserted pipe point-welded or crimped into one of the pipes (not to be made with pressreduced pipe diameter).
5.2 Ropes/Loops/guy runners	Ropes, 8mm diameter	**M**	Ok/Nok	4.0	Quantity: 6 ropes
		M	Ok/Nok	4.0	Ropes, black, UV treated, each 3m long, 8mm diameter, with a minimum tensile strength of 300kg. All ropes must be passed through the tent rings at the factory. All ropes must have a securely-knotted loop at one end, to place over the peg. Hard-wood or strong UV-proof plastic guy runners, red coloured, pre-mounted on the ropes. The grain of the wooden runners must run lengthwise in the runner. Size of the runners: 100 x 35 x 12mm 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. The ropes must be threaded through the runners in the position that represents the maximum blocking position on the ropes as per photo below.

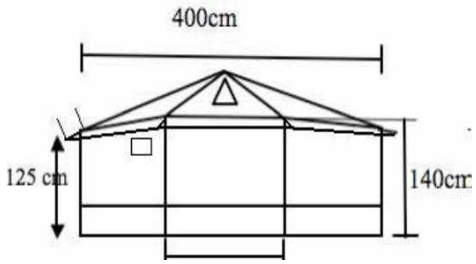
Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**

5.2 Ropes/Loops/guy runners	Ropes, 6mm diameter	**M**	Ok/Nok	4.0	Quantity: 4 ropes
		M	Measurement Ok/Nok	4.0	Ropes, black, UV treated, each 3m long, 6mm diameter, with a minimum tensile strength of 140kg. All ropes must be passed through the tent rings at the factory. All ropes must have a securely-knotted loop at one end, to place over the peg. Hard-wood or strong UV-proof plastic guy runners, red coloured, pre-mounted on the ropes. The grain of the wooden runners must run lengthwise in the runner. Size of the runners: 100 x 35 x 12mm 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. The ropes must be threaded through the runners in the position that represents the maximum blocking position on the ropes as per photo below.
5.3 Pegs and accessories	350 mm Pegs	**m**	Ok/Nok	6.5	Quantity: 6 pegs
		m	Measurement Ok/Nok	6.5	350mm pegs made of angled iron 25 x 25mm and 3mm thick, with a 50mm-iron rod 6mm in diameter welded on top. At one end, both wings of the angled iron must be cut at a 45° angle to form a pointed end. At the other end, both wings of the angled iron must be pressed together until they touch and the 50mm by 8mm rod welded to the top. The rod produces a 25mm prominence bent downwards slightly. The 6 pegs must have 2 notches on each wing side, but not directly opposite each other, to improve their grip in soft ground. The notches should be approximately 3mm in width with a maximum depth of 3mm. Pegs are painted or galvanized. (see picture below)
	300 mm Pegs	**m**	Ok/Nok	6.5	Quantity: 4 pegs
		m	Measurement Ok/Nok	6.5	300mm-pegs including bend, made of iron rebar 10mm in diameter, with a “candy cane” shaped hook on one end, painted or galvanized.
	230mm pegs	**m**	Ok/Nok	6.5	Quantity: 26 pegs
		m	Measurement Ok/Nok	6.5	230mm-pegs, made of iron bar 6mm in diameter, painted or galvanized, with a round shaped head on one end, to avoid damaging the mud flap when pushed through the eyelets.
	Hammer	(refer to specifications in part 1).			
	Instruction sheet	**m**	Ok/Nok	6.5	Quantity: 1 bag
		m	Ok/Nok	6.5	In the accessory bag, 1 set-up instruction sheet in English, showing step by step set-up information drawings and item content list and information, printed on durable laminated paper or durable fabric. Color printing in format A4 as per ANNEX1 to PU-I-014-AQL Family Tents-en.
	Repair kit	**m**	Ok/Nok	6.5	Quantity: 1 kit
		m	Ok/Nok	6.5	Repair kit including: 1 needle, 20m stitching thread, 3m polyester rope or string of 3mm used to attach the canvas spare piece around the bundle as per point 6/1 Standard package.
6.1 Packaging	Dimensions	**m**	Measurement	6.5	Bag Length 2300 mm maximum
	Dimensions	**m**	Measurement	6.5	Bag Width 400 mm maximum
	Dimensions	**m**	Measurement	6.5	Bag Height 400 mm maximum
	Weight	**m**	Measurement	6.5	55 kg +/-3%

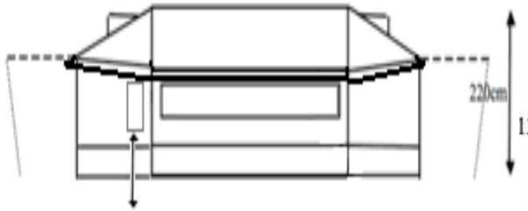
Nonconformities classification: Critical: **C**; Major:**M**; Minor:**m**

6.1 Packaging	Marking on the bag	**m**	Ok/Nok	6.5	Family tents + PO number The buyer's markings are printed on the outside.
	Requirements	**m**	Measurement Ok/Nok	6.5	One tent with all its accessories must come packed in one bundle only. The inner tent and the outer tent are folded so that the groundsheet protects the tent and accessories from dirt and moisture. Before placing it into the outer bag, the bundle must be protected with one additional layer made with a piece of polycotton canvas as per the wall canvas minimum, of 2.3m x 1m. This canvas is attached around the bundle with 3 ropes of 1m and 3mm diameter. The outer bag is made of the same material as the one used for the mud flaps of the tent. The metal poles and pegs must be packed in 2 separate bags to avoid damaging other items inside the bundle. Both bags must be made of the same material as the outer bag. The bags must have a closure system that ensures the accessories remain in their bags during transport and handling. Particular care must be taken when packing the pegs to ensure they will not pierce the bag. 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. Each self-locking buckle can be made either with two rectangular buckles of 4mm wire, welded-closed, or with one rectangular buckle and one sliding middle bar, of 4mm steel rod, welded-closed. The straps must not be sewn to the outer bag. Each strap provides 2 handles. The buyer's markings must be printed on the outside in indelible ink. The standard international warning sign "protect from water" must be printed on the outside of the package. Optional package: The poles can be divided into pieces in order to obtain a package of 1.2m in length. The package must be a polycotton bag of 1.2m x 0.4m x 0.3m 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.

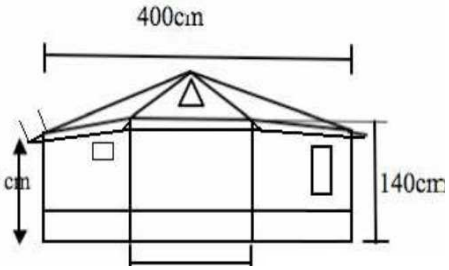
Reference drawings:



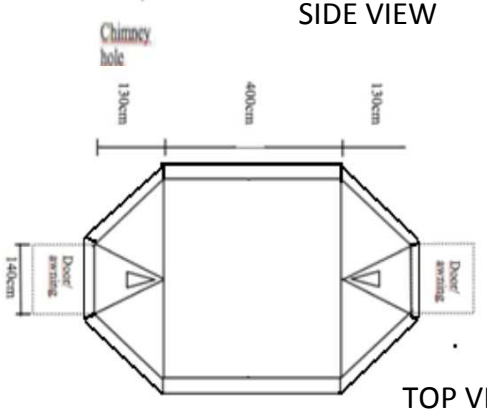
FRONT VIEW



SIDE VIEW

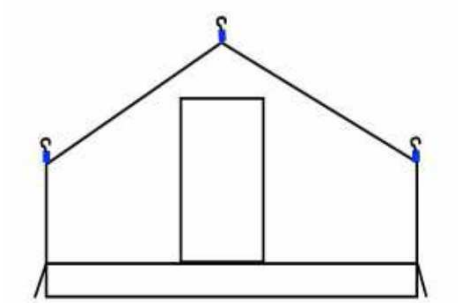


REAR VIEW

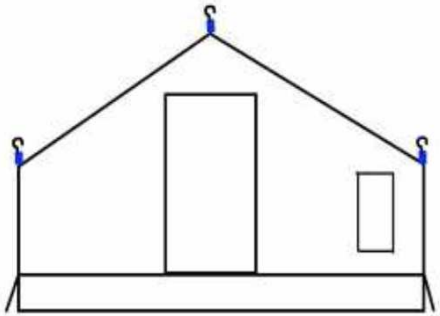


TOP VIEW

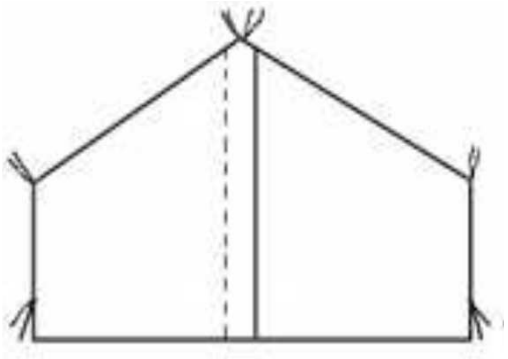
Reference drawings:



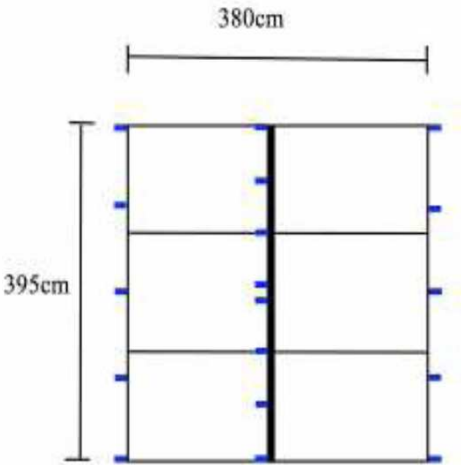
Inner tent front



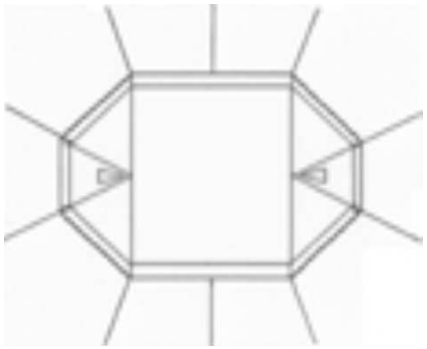
Inner tent



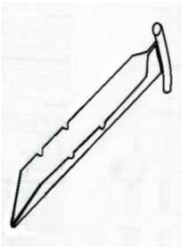
Inner partition



Inner Tent Suspension System



Attachment System (guy lines)



Pegs

Rope blocking