

Multi-purpose tent, Polycotton, 45m²



last updated : 2019/03/18

Specifications available in:

<https://itemscatalogue.redcross.int/support--4/shelter-and-construction-materials--23/collective-service-tents--22/multi-purpose-tent-polycotton-45m2--HSHETENT05.aspx>

General information

Standard tent for emergency field hospital, health center, storage, etc.

Can be attached one to another to make a longer structure.

The tent can be delivered without options or with the following:

- A bathtub ground sheet to cover the complete surface of the tent.
- An inner tent, with its own bathtub ground sheet, to increase the protection from heat, cold, wind, dust, insects, etc.
- A set of 5 partitions to create separate areas and closed cabins inside the inner tent.
- A shade net for hot climate to place over the tent (includes a specific frame), for an increased protection from heat.

This type of tent is especially designed for its resistance to wind, rain, micro-organisms. The polyester/cotton canvas combines strength, durability, waterproof, and breathing capacities.

Expected life span is 1 year in a tropical environment.

Disinfection: Chlorine will damage the canvas (0.2% concentration is a maximum advisable).

Setting up requires 8 persons, and take 2 hours (instructions included). Avoid setting it up under trees as this will lead to canvas rotting. Use all ground fixings to ensure the maximum wind resistance.

Selection of types and manufacturers is to be handled by HQ technical and purchasing departments. Full specifications can be obtained at your HQ. The specifications below define the minimum quality for the main material of the tent. Adherence to these specifications is a good indication for pre-selecting interested manufacturers.

Specifications

Make up

- Ridge frame tent with sloped sides.
- Outer tent dimension: 7,5 m long by 6 m width. Ridge height 3m. Side height 2.1m
- Inner tent dimension: 7,1 m long by 5,8 m width. Ridge height 2.9m. Side height 2,0 m
- Four doors: 1 on each end with fast opening/closing system, and 1 on each side.
- Full width opening possible on both ends.
- 3 high ventilation windows on each side, with sun-visors/shutters, grill, and mosquito netting.
- 1 high ventilation window on each gable with shutter, canopy/sun-visor, and mosquito netting.
- Velcro strips on both sides for logo attachment.
- 2 Electric cable passages at each gable (top of side wall).
- 58 elastic tighteners and 10 storm guy ropes.
- Aluminium frame with 40x2mm pipes (same length) and steel connectors (same angle).
- Packed in 1 bundle with 8 carrying handles, detachable in two parts, frame bag with 6 carrying handles.
- Special stackable pallets for 3 tents

For IOM tents only:

- 1 x logo at **each** gable end (refer to logo placement for dimensions)
- 2pcs x “removable” IOM logos made on matching fabric 1m wide (shipped attached to walls and/or included with the assembly instruction).
- Velcro strips at parallel sides for logo attachment, minimum of 100mm-width all around and be of sufficient strength that logo panels will remain in place under normally anticipated use.

Specifications for the outer tent canvas	
Denomination and norms	Required minimum values
1. Composition ISO1833	Polyester/Cotton blended fibres yarns. Cotton: 40%(±10), polyester: 60%(±10) = Polyester: 50% to 70%, balance cotton
2. Specific weight ISO 3801	440 g/m ² ±10% in finished state for the roof 320 g/m ² ±10% in finished state for the walls
3. Colour	Natural white
4. Breatheability	Minimum 2000g/m ² /24h
5. Tensile strength ISO 13934-1	Warp and Weft 1200N minimum
6. Tear resistance - Started ISO 9073-4	Warp and Weft 60N minimum
7. Water penetration resistance ISO 811 Test pieces of plain canvas.	45hPa minimum for the roof, with increasing speed at 100mm per minute. 30hPa minimum for the walls, with increasing speed at 100mm per minute.
8. Water penetration resistance ISO 811 Test pieces with seams.	12hPa minimum, with increasing speed at 100mm per minute. Pieces of canvas with seam in the middle, to be immerse in water for 12h before testing.
9. Dimensional variation when soaking in water ISO 7771	maximum 2%
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
11. Efficiency of water-repellent treatments after soaking in water. Same test as point 7 on samples soaked in water in point 9.	45hPa minimum, with 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 in point 9.	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
13. Tensile strength after exposure to UV and moisturizing (climatic simulation). Exposure in a climatic chamber under ISO4892-2, type A, 360hours, 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: 5 test pieces in warp and 5 test pieces in weft

Specifications for the PVC coated fabric for the mud flaps	
Denomination and norms	Required minimum values
1.Composition Number of yarns per cm	Polyester 1100 dtex, PVC coated2 sides. chain and weft: 7 x 7 min.
2.Specific weight ISO 3801	540g/m ² ± 10%
3.Tensile strength ISO 1421	Warp 2000N minimum Weft 2000N minimum Elongation 15% to 30%
4. Bursting strength ISO 3303-B (10cm ²)	2500Kpa
5.Tear resistance - ISO 4674-1 (method B)	Warp 300N minimum Weft 100N minimum
6. Resistance to micro-organism on mechanical strength ISO 3303-B (10cm ²) after BS 6085/2	maxi 20% strength loss on original value of the same product.
7.Resistance to UV in percentage of bursting strength loss under ISO 3303-B (10cm ²) after exposure in a climatic chamber under ISO4892-2, type A, 360hours.	maxi 20% strength loss on original value of the same product.
8.Colour	White