1. Plastic sheet / tarpaulin 4mx6m or rolls 4m x 60m

1.1. Plastic Sheet: 4mx6m Tarpaulins

finishing: finish size 4mx5m, reinforced bands along edges, pre-punched at 0.1m intervals. Details below. Note in laboratory testing this system has proven to be stronger than when eylets are used.

Sheet, plastic 4mX6m, reinforcemt bands					
Item code:	1100000013		Unit Weight:	4.488kg-5.544kg	
			Unit volume	0.00864m ³	

1.2. Plastic sheet: 4mx60m Rolls

Finishing: finish size 4mx60m, reinforced bands along edges. Details below.

Sheet, plastic rolls 4mx60m						
Item code:	1100000054		Unit Weight:	-		

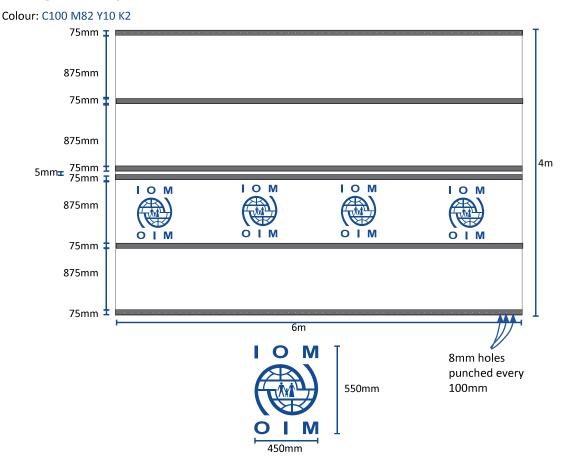
1.3. Plastic sheeting specifications

Notes:

IOM has moved its standard specification to either rolls or 4mx6m sheets with reinforcement bands and pre-punched holes, rather than eyelets. This specification is in line with ICRC/IFRC and is based on over fifteen years of laboratory testing and proven field experience.

For further information please visit <u>plastic-sheeting.org</u> or contact sheltersupport@iom.int. The current ICRC/IFRC standard specification detailed below is in line with the online catalogue: <u>procurement.ifrc.org/catalogue</u>.

IOM logo size and placement



Summary of material requirements					
Material for the plain sheet					
Material for the reinforced attachment points (sheets)					
	Pre-punched 8mm holes on the 2 side bands at $0.1m + -10\%$ intervals, positioned in the center of the bands (only the reinforcement bands are pre-punched, not the tarpaulin itself).				
	Position of the 6 bands and pre-punched holes as per drawing below.				
Tear strength in plain sheet at state of origin	Minimum 100N under ISO 4674-1 2003, strip of 200x200mm, in p lain sheet				
Tensile strength in p lain sheet at state of origin	Minimum 500N and 15% to 25% elongation in warp and weft in plain sheet under ISO 1421-1.				
UV resistance of the plain sheet, measured as remaining tensile	The tarpaulin tensile strength under ISO 1421-1 after 1500 hours UV under ASTM G53/94 (UVB 313 nm peak) must be:				
strength after UV exposure	Minimum 80% of the original value of the actual product, AND not less than 475N.				
	To be tested in the p lain sheet.				
Tensile strength in the reinforcement bands at state of origin	Minimum 700N inside the reinforcement bands as per ISO 1421-1, pulling lengthwise in a pre-punched hole of 8mm with a hook of 8mm wire diameter. To test in 2 holes in each side bands				
UV resistance of the reinforcement bands measured as	The reinforcement bands tensile strength under ISO 1421-1 after 1500 hours UV under ASTM G53/94 (UVB 313 nm peak) must be:				
remaining tensile strength after UV	Minimum 80% of the original value of the actual product, AND not less than 665N.				
exposure	To be tested inside the reinforcement bands as described above.				
Welding number and strength at state of	Only one welding allowed, in the middle of the sheet, length wise. The tarpaulin tensile strength crossway s at the place of the welding under ISO 1421-1 must be:				
origin	Minimum 50% of the original value of the actual product, AND not less than 400N.				
	Size, weight, colour, fire resistance				
Width	4 m ± 1% net width				
Length	6m ± 1% net length				
Weight, plain sheet	190g/m² ± 20g under ISO 3801				
only, excluding the bands weight	(equivalent to 170g/m² minimum to 210g/m² maximum)				
Weight, complete sheet including bands weight.	Plain sheet specific weight plus 10% additional weight for the reinforcement bands under ISO 3801.				
	Total weight from 187g/m ² minimum and 231g/m ² maximum				
	Specific weight of the bands from 150g/ m ² minimum and 200g/m ² maximum				
Flame retardant	Not mandatory for the time being.				

Colour	White sun reflective on both sides of the sheet. Grey coating on the outside of the bands. Inner black fibres to ensure opacity.			
	White Coating colour definition:			
	L.a.b Coordinates under ISO 105J01			
	Minimum L : 82			
	"a" value between -1.7 and +1.5			
	"b" value between -4.5 and 0			
Opacity	Minimum reflection and absorption percentage, measured under ISO			
	13468-1, in the range of visible light and near infrareds (respectively from 350 to 750nm, and from 750 to 2500nm wavelength).			
	Minimum total reflection in visible light + infrared: 35% Minimum total absorption in visible light + infrared: 60%			
	All percent above 35% in reflection can be deducted from the 60%			
	absorption in the limit of 15% to reach a maximum of 50% reflection.			
	Marking, packing, and accessories			
Printing	Continuous indelible printing in white colour of the manufacturer name, the month and year of production (Letters of 2.5cm high +/10%). Length indicator marks every meter. IOM logo.			
Bale dimensions	Length: 600mm; Width: 400mm; Height: 180mm (+/-20%) There must be 5 tarpaulins per bale			
Bale marking	As per indicated in contract.			
Bale protection	The bale must be wrapped with a piece of similar material as the one of the tarpaulins.			
	The wrapping must be properly folded, closely tight to the bale content, making a well- shaped cubic bale.			
	Inside the bales the tarpaulins are not individually wrapped.			
Bales strapping	The bale must be strapped with 2 heat-sealed plastic straps for the length and 2 for the cross.			