



# External Fabric

## PVC coated Polyester

A woven polyester base cloth scrim coated 2 sides with heavily plasticized PVC, lacquered top and bottom with either acrylic or fluoropolymer

## PTFE (Teflon) Coated Glass

A woven glass fibre base cloth scrim coated 2 sides with plasticized PTFE. Lacquer top and bottom with fluoropolymers

## Silicon Coated Glass

A woven glass fibre base cloth scrim coated 2 sides with Silicon Rubber

<b>Means of construction</b>		High Frequency (HF) welding or sewing
<b>Life span</b>	* **	10 - 15 years - Acrylic laquer 15 - 18 years - Weldable PVDF Laquer 18 - 20 years - Non-weldable PVDF laquer
<b>Price comparison</b>	***	Very cost effective
<b>Fire rating</b>	*	BS7837: 1996
<b>Translucency</b>	*	8% for Type 2 (1000gm/m2)
<b>Colour retention</b>	*	Whiteness can dull over time as plasticizers migrate to surface. Added UV stabilizers can limit fading of colours.
<b>Colours</b>	***	Large colour range for Type 1 (650 - 800gm/m2) Limited range for Type 2 (900 - 1050gm/m2)
<b>Temporary structures</b>	***	Perfect for touring structures
<b>Range of other options</b>	***	Available as a mesh with wide range of openness factors & colours
<b>Environmental</b>	*  **	All European fabric manufacturers have removed harmful phthalates and heavy metals from material processing.  Can be reprocessed in Italy back to Polyester yarn and pvc granules but in UK is more often shredded for re-use in products such as 'soft' kerbstones, traffic cones, park benches etc.

		Bonded using hot melt FEP strip
	***	35+ years
	*	Approx 4x £ PVC on the roll.
	***	BS 476: Part 6:1989, Part 7: 1997
	*	12% for Type 2 (800 gm/m2)
	**	Whiteness improves over time due to gradual UV bleaching.
	*	Special Order only (Sepia colour on the roll which bleaches to white in sunlight).
	*	Not recommended for relocation
	**	Available as a mesh - limited option available
	*	Recyclable but low global volumes mean specialist reprocessing is not currently viable.  Can be shredded for landfill as no Chlorine or Bromine content.  No 2nd use.

		Bonded using hot melt mastik strip
	***	35+ years
	*	Approx 3x £ PVC on the roll.
	***	BS 476: Part 6:1989, Part 7: 1997
	***	21% for Type 2/3 (1,165gm/m2) (41% for Type 1 (595gm/m2))
	***	Colourfast - no fade
	**	Limited colour range for Type 1 Colour range available for minimum runs of 2000 lin m
	**	Could be relocated with care
	**	Available as a mesh - limited options available
	***	Raw materials plentiful and no toxic risk.  Can be shredded for reuse in other products (i.e. Reinforced concrete roofing sheets).  Does not leach harmful chemicals to landfill during decomposition.



# External Fabric

## ETFE Foil

Clear unreinforced film. Thicknesses available from 50 to 500 micron. Used as alternative to glass - light weight. Single skin or inflated cushions to aid heat conservation.

## Tenara

A woven extruded PTFE filament base cloth scrim coated 2 sides with 100% fluoropolymer film

## HDPE Shade Cloth

A woven or knitted, extruded HDPE monofilament mesh, UV stabilised

<b>Means of construction</b>	*	Heat welded
<b>Life span</b>	***	35+ years
<b>Price comparison</b>	*	Approx 3x £ PVC on the roll
<b>Fire rating</b>	**	B-s1,d0 (Euro classification)
<b>Translucency</b>	***	98% for all thicknesses
<b>Colour retention</b>		N/A (Clear)
<b>Colours</b>		N/A (Clear)
<b>Temporary structures</b>		Not recommended for relocation
<b>Range of other options</b>		No options available (film can be printed to help reduce solar glare)
<b>Environmental</b>	*	Recyclable but currently Low global volumes mean specialist reprocessing is not currently viable. Can be shredded for landfill as no Chlorine or Bromine content. No proposed 2nd use.

***	High Frequency (HF) welding
***	35+ years
	Approx 10x £ PVC on the roll.
**	B-s1,d0 (Euro classification)
***	38% for Type 2 (1080gm/m2)
***	Colourfast - no fade
	Not currently available
*	Can be used, though unsuitable due to expense
	Also available at 20% translucency
*	100% Inert material will not biodegrade in landfill. Can be reprocessed but low volumes mean this is not currently viable. No proposed 2nd use.

**	Sewing only
*	10 years
***	Equivalent to type 1 PVC
*	AS1530.2 - 1993 Flamability Index 22
	4% - 20% depending upon colour
*	UV stable for 10 years
***	Large colour range available
***	Perfect for touring structures
	No options available
***	Recyclable as household domestic waste due to monofilament structure



# Internal Fabric

## PVC Coated Polyester Mesh

Polyester filaments, coated in PVC then woven in a 'plain' style to produce a mesh fabric of distinctive appearance

## PVC Coated Glass fibre Mesh

Glass fibre filaments, coated in PVC then woven in a variety of styles to produce various textures and 'looks'

## PU Coated Glass fibre

Woven glass fibre basecloth scrim, coated one side with PU

<b>Means of construction</b>		HF Welding or sewing
<b>Life span</b>	**	10 - 15 years
<b>Price comparison</b>	*	approx 2x £ PVC on the roll
<b>Fire rating</b>	***	B-s1, d0 (Euroclassification)
<b>Openness factor</b>		5%
<b>Translucency</b>		N/A
<b>Colour retention</b>	***	Colourfast - no fade
<b>Colours</b>	***	Large colour range
<b>Temporary structures</b>	***	Suitable for temporary structures Fully printable with UV cured inks
<b>Range of other options</b>		N/A
<b>Environmental</b>	***  *	Available as a fully recycled product.  All European PVC fabric manufacturers have removed harmful phthalates and heavy metals from material processing. Can be reprocessed in Italy back to Polyester yarn and pvc granules but in UK is more often shredded for re-use in products such as 'soft' kerbstones, Traffic cones, park benches etc.

		HF Welding or sewing
	**	15 - 20 years
	*	approx 2x £ PVC on the roll
	***	BS 476: Part 6: Class 0
		1-10%
		0-30%
	***	Colourfast - no fade
	***	Large colour range
	*	Not recommended for relocation Fully printable with UV cured inks
	**	Variety styles, weave patterns. Acoustic properties
	*	All European PVC fabric manufacturers have removed harmful phthalates and heavy metals from material processing. 2nd use recommendation for sand bags and ground stabilisation sheeting.

		Sewing only
	*	10 years
	***	Approx 1/2 £ of type 1 PVC on the roll
	***	BS 476: Part 6: Class 0
		N/A
		Approx 20% (Suitable for backlit applications)
		N/A
		White only
	*	Not recommended for relocation Fully printable with UV cured inks
		N/A
	***	Raw materials plentiful and no toxic risk. Can be shredded for reuse in other products (i.e. Reinforced concrete footing sheets). Does not leach harmful chemicals to landfill during decomposition.s



# Internal Fabric

## Polyester Lycra

90% FR Polyester, 10% Lycra variety of finishes from matt to high gloss, textured and range of colours.

## Cotton

100% cotton sheeting

## Polyester Trevira

100% Polyester material Available in a variety of weights, colours and levels of translucency

<b>Means of construction</b>		Sewing only
<b>Life span</b>		5 years
<b>Price comparison</b>	*	Equivalent to type 1 PVC
<b>Fire rating</b>	**	Inherently flame retardent (IFR)
<b>Openness factor</b>		N/A
<b>Translucency</b>		Approx 20%
<b>Colour retention</b>	***	Colourfast - no fade
<b>Colours</b>	***	Large colour range
<b>Temporary structures</b>	***	Suitable for temporary structures
<b>Range of other options</b>		N/A
<b>Environmental</b>	***	Fully recyclable

		Sewing only
		5 years
	***	Ranges from 1/3rd of type 1 PVC cost
	*	Non-durably flame retardent (NDFR) Can be Probanised to achieve BS5867 2B
		N/A
		0 - approx 20%
	*	Will fade if exposed to strong sunlight
	***	Large colour range
	***	Suitable for temporary structures Fully printable with UV cured inks
		Variety styles, weave patterns.
	***	Fully recyclable - Natural product

		Sewing only
		Up to 5 years
	***	From 1/3rd of type 1 PVC cost
	*	Inherently flame retardent (IFR) - BS5867 2B
		N/A
		Full range from 90% - Full Blackout
	***	Colourfast - no fade
	***	Large colour range
	***	Suitable for temporary structures Fully printable with UV cured inks
	***	Full range available from 50gm/m2 Voile up to 400gm/m2 Also available as a stretch fabric
	***	Fully recyclable