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
Means of construction		High Frequency (HF) welding or sewing		Bonded using hot melt FEP strip		Bonded using hot melt mastik strip
Life span	✲ ✲✲	10 - 15 years - Acrylic laquer 15 - 18 years - Weldable PVDF Laquer 18 - 20 years - Non-weldable PVDF laquer	✲✲✲	35+ years	✲✲✲	35+ years
Price comparison	✲✲✲	Very cost effective	✲	Approx 4x £ PVC off the roll.	✲	Approx 3x £ PVC off the roll.
Fire rating	✲	BS7837: 1996	✲✲✲	BS 476: Part 6:1989, Part 7: 1997	✲✲✲	BS 476: Part 6:1989, Part 7: 1997
Translucency	✲	8% for Type 2 (1000gm/m2)	✲	12% for Type 2 (800 gm/m2)	✲✲✲	21% for Type 2/3 (1,165gm/m2) (41% for Type 1 (595gm/m2))
Colour retention	✲	Whiteness can dull over time as plasticizers migrate to surface. Added UV stabilizers can limit fading of colours.	✲✲	Whiteness improves over time due to gradual UV bleaching.	✲✲✲	Colourfast - no fade
Colours	✲✲✲	Large colour range for Type 1 (650 - 800gm/m2) Limited range for Type 2 (900 - 1050gm/m2)	✲	Special Order only (Sepia colour on the roll which bleaches to white in sunlight).	✲✲	Limited colour range for Type 1 Colour range available for minimum runs of 2000 lin m
Temporary structures	✲✲✲	Perfect for touring structures	✲	Not recommended for relocation	✲✲	Could be relocated with care
Range of other options	✲✲✲	Available as a mesh with wide range of openess factors & colours	✲✲	Available as a mesh with limited option available	✲✲	Available as a mesh - limited options available
Environmental	✲ ✲✲	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.	✲	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.	✲✲✲	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		Tenara		HDPE Shade Cloth	
	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.		A woven extruded PTFE filament base cloth scrim coated 2 sides with 100% fluoropolymer film		A woven or knitted, extruded HDPE monofilament mesh, UV stabilised	
Means of construction	*	Heat welded	***	High Frequency (HF) welding	**	Sewing only
Life span	***	35+ years	***	35+ years	*	10 years
Price comparison	*	Approx 3x £ PVC off the		Approx 10x £ PVC off the roll.	***	Equivalent to type 1 PVC price
Fire rating	**	B-s1,d0 (Euro classification)	**	B-s1,d0 (Euro classification)	*	AS1530.2 - 1993 Flamability Index 22
Translucency	***	98% for all thicknesses	***	45% for Type 2 (1080gm/m2) 45% for Type 1 (925gm/m2)		4% - 20% depending upon colour
Colour retention		N/A (Clear)	***	Colourfast - no fade	*	UV stable for 10 years
Colours		N/A (Clear)		Not currently available	***	Large colour range available
Temporary structures	*	Not recommended for relocation	*	Unsuitable due to expense	***	Perfect for touring structures
Range of other options		No options available (film can be printed to help reduce solar glare)		No options available		No options available
Environmental	*	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.	*	100% Inert material will not biodegrade in landfill. Can be reprocessed but low volumes mean this is not currently viable. No proposed 2nd use.	***	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 appearence

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

	PVC Coated Polyester Mesh		PVC Coated Glass fibre Mesh		PU Coated Glass fibre	
Means of construction		HF Welding or sewing		HF Welding or sewing		Sewing only
Life span	**	10 - 15 years	**	15 - 20 years	*	10 years
Price comparison	*	approx 2x £ PVC off the roll	*	approx 2x £ PVC off the roll	***	Approx 1/2 £ of type 1 PVC cost
Fire rating	***	B-s1, d0 (Euroclassification)	***	BS 476: Part 6:1989, Part 7: 1997; Class 0	***	BS 476: Part 6:1989, Part 7: 1997; Class 0
Openness factor		5%		3-10%		N/A
Translucency		N/A		N/A		Approx 20% (Suitable for backlit applications)
Colour retention	***	Colourfast - no fade	***	Colourfast - no fade		N/A
Colours	***	Large colour range	***	Large colour range		White only
Temporary structures	***	Suitable for temporary structures Fully printable with UV cured inks	*	Not recommended for relocation Fully printable with UV cured inks	***	Not recommended for relocation Fully printable with UV cured inks
Range of other options		N/A	**	Variety styles, weave patterns.		N/A
Environmental	*** *	Available as a fully recycled product. All European PVC fabric manufacturers have removed harmful phthaltes 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.	*	All European PVC fabric manufacturers have removed harmful phthaltes and heavy metals from material processing. 2nd use recomendation for sand bags and ground stabilisation sheeting.	***	Raw materials plentiful and no toxic risk. Can be shredded for reuse in other products (i.e. Reinforced concrete foofing sheets). Does not leach harmful chemicals to landfill during decomposition.s

Internal Fabric

	Cotton Lycra 90% Cotton, 10% Lycra Variety of finishes from Matt to high gloss and textured.		Cotton 100% cotton sheeting		Polyester Trevira 100% Polyester material Available in a variety of weights, colours and levels of translucency lacquers
Means of construction		Sewing only		Sewing only		Sewing only
Life span		5 years		5 years		Up to 5 years
Price comparison	*	Equivalent to type 1 PVC	***	Ranges from 1/3rd of type 1 PVC cost	***	From 1/3rd of type 1 PVC cost
Fire rating	**	Inherently flame retardent (IFR)	*	Non-durably flame retardent (NDFR) Can be Probanised to achieve BS5867 2B	*	Inherently flame retardent (IFR) - BS5867 2B
Openness factor		N/A		N/A		N/A
Translucency		Approx 20%		Approx 20%		Full range from 90% - Full Blackout
Colour retention	***	Colourfast - no fade	*	Will fade if exposed to strong sunlight	***	Colourfast - no fade
Colours	***	Large colour range	***	Large colour range	***	Large colour range
Temporary structures	***	Suitable for temporary structures	***	Suitable for temporary structures Fully printable with UV cured inks	***	Suitable for temporary structures Fully printable with UV cured inks
Range of other options		N/A		Variety styles, weave patterns.	***	Full range available from 50gm/m2 Voile up to 400gm/m2 Also available as a stretch fabric
Environmental	***	Fully recyclable	***	Natural product - Fully recyclable	***	Recyclable