

TECHNICAL DATA SHEET

Permal
Gloucester

PERMAGLASS CARGO LINING

14/03/01 Issue 07

WFT/22

BENEFITS

- ◆ Excellent durability in service
- ◆ High abrasion resistance
- ◆ Low smoke and toxic fume emissions

This product is a woven glass/phenolic aircraft cargo hold liner material exhibiting high strength to weight ratio, high durability and exceptionally good fire, smoke and toxicity properties. The product conforms and is approved to Fokker Aircraft Specification TH5 565/1. This material is the original fit cargo liner for the Fokker 70 & 100, Saab 2000 and BAe Jetstream 41 aircraft. It has also been used as a cargo bay floor panel in the Boeing 737 due to its excellent wear resistance.

Typical Properties

Thickness and Weight:

Type 40	1mm	(0.040")	1830 gsm	(0.38 lbf/sq ft)
Type 30	0.8mm	(0.031")	1475 gsm	(0.30 lbf/sq ft)

Thickness of Type 20 (0.5mm) through to Type 90 (2.3mm) can also be manufactured.

Mechanical Properties:

Flexural Strength	440 MPa	Warp	}	
	410 MPa	Fill	}	
Flexural Modulus	22 GPa	Warp	}	
	20 GPa	Fill	}	Fokker
Tensile Strength	480 MPa	Warp	}	test
	460 MPa	Fill	}	method
Tensile Modulus	18 GPa	Warp	}	TH33 0121
	17 GPa	Fill	}	

Durability:

Over several years of service WFT/22 has shown itself to have excellent all round durability and water resistance and is particularly suitable for inclusion in short haul aircraft.

Flammability:

Meets FAR 25 853a and 855a-1 and all known aircraft cargo lining flammability specifications including FAR Part 25.855 Amendment 25-60 (burn-through test) and CAA Notice No. 80.

Smoke Density:

In NBS chamber to technical note 708 in flaming mode.

<u>Time</u>	<u>Smoke Density</u>	
1.5 minutes	Average 18	all types
4.0 minutes	Average 26	all types

Toxicity:

After 4 minutes in NBS chamber Draeger Tube Analysis.

Toxicant	CO	HCN	HF	HCL	SO ₂	NO ₂
Concentration	190	4	20	0	0	12

Finish:

Standard finishes include a white Tedlar film on one face only, but material can be supplied without Tedlar (WF/22) or with Tedlar on both faces (WFTT/2) if desired.

Standard Sheet Size:

96" x 48" (2440 x 1220 mm)

144" x 48" (3658 x 1220 mm)

124" x 65" (3150 x 1651 mm)

Other sizes may be available on request.