Technical Specification

Carbon/Glass HK-1 (M)

Fabric Description

Glass / Carbon Hybrid, 0-90 deg. Multi-Axial Fabric – Product code FCIM 100. V3

Areal Weight = 63 gsm

Comprising of Sub-Components

A. Glass
B. Carbon
C. Polyester

Fire Properties

	Warp Direction (0 degree)	Weft Direction (90 degree)
Fibre A	EC14 300 tex Glass 1 end per 25.4mm @ 12 gsm	EC14 300 tex Glass 1 end per 25.4mm @ 12 gsm
Fibre B	T300 6K Carbon 1 end per 25.4mm @ 16 gsm	T300 6K Carbon 1 end per 25.4mm @ 16 gsm
Fibre C	3 / 78 Dtex Polyester 2 ends per 25.4mm @ 7 gsm	
	Total Areal Weight (Warp) **35 gsm**	Total Areal Weight (Weft) **28 gsm**

Fibre Properties

Glass	Linear Density	= 300 Tex
	Filament Diameter	= 14 micron
	Tensile Strength	= 15.5kg force – PPG test method TM 186 ISO 3341
Carbon T300	Number of Filaments	= 6000
	Tensile Strength	= 3530 Mpa
	Tensile Modulus	= 230 Gpa
	Elongation	= 1.5%
	Mass per Unit Length	= 396 Tex (g/1000 mtr)

The above information is as supplied to the International Coatings Ltd by the manufacturer.