

TECHNICAL FILE OF BUILDING

Glider Name : **BiGOLDEN 42** und 38

SIZE		42			
FLAT	AREA	41.36 m ²			
	SPAN	14.62 m			
	A.R	5.17			
PROJEC TED	AREA	35.62 m ²			
	SPAN	12.32 m			
	A.R	4.26			
CHORD	ROOT	3.46 m			
	TIP	0.68 m			
TOTAL LINELENGTH		8.70 m (B)			
CELL NUMBER		52			
GLIDER WEIGHT		8.0 kg			
HOOK IN WEIGHT		140 kg – 210 kg			
FLIGHT SPEED	MIN.	24 km/h			
	TRIM	38 km/h			
	MAX.	49 km/h			
AFNOR		-			
D.H.V		1-2			

FABRIC OF CANOPY

UPPER SURFACE

FABRIC CODE		9092	
SUPPLIER	NAME	NCV industries Porcher Marine	
	ADDRESS	L'Isle d'Abeau Parc de Chesnes – 75 rue du Ruisseau 38070 ST QUENTIN FALLAVIER – FRANCE	
FINISH IDENTIFICATION		Side coated E 77A: Water-repellent	
COMPOSITION		Polyurethane	
WEIGHT(g/sqm)		45 +/- 3	
WIDTH(cm)		158	
CONSTRUCTION		Rip Stop	
BREAKING STRENGTH (DaN/5cm)	WARP	40 min.	
	WEFT	33 min.	
Elongation on bias 3 lbs (%)		6.5 max.	
Elongation on bias 5 lbs (%)		15 max.	
Elongation on bias 10 lbs (%)		27 max.	
TEAR STRENGTH (DaN)	WARP	2 min.	
	WEFT	1.5 min.	
AIR Permeability p=2000Pa (l/SQMXMN)		40 max.	

FABRIC OF CANOPY

LOWER SURFACE

FABRIC CODE		9017	
SUPPLIER	NAME	NCV industries Porcher Marine	
	ADDRESS	L'Isle d'Abeau Parc de Chesnes – 75 rue du Ruisseau 38070 ST QUENTIN FALLAVIER – FRANCE	
FINISH IDENTIFICATION		Side coated. E 77A: Water-repellent	
COMPOSITION		Polyurethane	
WEIGHT(g/sqm)		40 +/- 2	
WIDTH(cm)		158	
CONSTRUCTION		Rip Stop	
BREAKING STRENGTH (DaN/5cm)	WARP	38 min.	
	WEFT	33 min.	
Elongation on bias 3 lbs (%)		6.5 max.	
Elongation on bias 5 lbs (%)		15 max.	
Elongation on bias 10 lbs (%)		27 max.	
TEAR STRENGTH (DaN)	WARP	1.5 min.	
	WEFT	1.5 min.	
AIR Permeability p=2000Pa (l/SQMXMN)		40 max.	

FABRIC OF CANOPY

BEARING RIBS. NON LOAD BEARING RIBS AND V-RIBS

FABRIC CODE		9092
SUPPLIER	NAME	NCV industries Porcher Marine
	ADDRESS	L'Isle d'Abeau Parc de Chesnes – 75 rue du Ruisseau 38070 ST QUENTIN FALLAVIER – FRANCE
FINISH IDENTIFICATION		Side coated. E 29A: Firm
COMPOSITION		Polyurethane
WEIGHT(g/sqm)		45 +/- 3
WIDTH(cm)		158
CONSTRUCTION		Rip Stop
BREAKING STRENGTH (DaN/5cm)	WARP	40 min.
	WEFT	33 min.
Elongation on bias 3 lbs (%)		2 max.
Elongation on bias 5 lbs (%)		3 max.
Elongation on bias 10 lbs (%)		10 max.
TEAR STRENGTH (DaN)	WARP	1 min.
	WEFT	0.7 min.
AIR Permeability p=2000Pa (l/SQMXMN)		100 max.

SUSPENSION LINE – upper level

MATERIAL		7850-100-***	7850-130-***	
SUPPLIER	NAME	EDELMANN + RIDDER		
	ADDRESS	Achener Weg 66. D-88316 ISNY im Allgäu. GERMANY		
DIAMETER(mm)		1.1	1.3	
YARN COUNT				
NUMBER OF CORE				
BREAKING STRENGTH [daN]		100 min	130 min.	
MATERIAL CORE		Dyneema	Dyneema	
MATERIAL SLEEVE		Polyester	Polyester	
WEIGHT LINE (g/m)		0.91	1.26	
WEIGHT CORE (g/m)		0.37	0.54	

SUSPENSION LINE – middle level

MATERIAL		7850-100-***	7850-130-***	7850-160-***
SUPPLIER	NAME	EDELMANN + RIDDER		
	ADDRESS	Achener Weg 66. D-88316 ISNY im Allgäu. GERMANY		
DIAMETER(mm)		1.1	1.3	1.4
YARN COUNT				
NUMBER OF CORE				
BREAKING STRENGTH [daN]		100 min	130 min.	160 min.
MATERIAL CORE		Dyneema	Dyneema	Dyneema
MATERIAL SLEEVE		Polyester	Polyester	Polyester
WEIGHT LINE (g/m)		0.91	1.26	1.66
WEIGHT CORE (g/m)		0.37	0.54	0.74

SUSPENSION LINE – middle level

MATERIAL		7850-200-***		
SUPPLIER	NAME	EDELMANN + RIDDER		
	ADDRESS	Achener Weg 66. D-88316 ISNY im Allgäu. GERMANY		
DIAMETER(mm)		1.6		
YARN COUNT				
NUMBER OF CORE				
BREAKING STRENGTH [daN]		200 min		
MATERIAL CORE		Dyneema		
MATERIAL SLEEVE		Polyester		
WEIGHT LINE (g/m)		2.01		
WEIGHT CORE (g/m)		0.92		

SUSPENSION LINE – bottom level

MATERIAL		6843-160-***	6843-200-***	6843-240-***
SUPPLIER	NAME	EDELMANN + RIDDER		
	ADDRESS	Achener Weg 66, D-88316 ISNY im Allgäu, GERMANY		
DIAMETER(mm)		1.5	1.8	2.1
YARN COUNT				
NUMBER OF CORE				
BREAKING STRENGTH [daN]		160 min.	200 min.	240 min.
MATERIAL CORE		Aramid	Aramid	Aramid
MATERIAL SLEEVE		Polyester	Polyester	Polyester
WEIGHT LINE (g/m)		2.00	2.96	3.56
WEIGHT CORE (g/m)		0.93	1.15	1.46

SUSPENSION LINE – bottom level

MATERIAL		6843-340-***		
SUPPLIER	NAME	EDELMANN + RIDDER		
	ADDRESS	Achener Weg 66, D-88316 ISNY im Allgäu, GERMANY		
DIAMETER(mm)		2.3		
YARN COUNT				
NUMBER OF CORE				
BREAKING STRENGTH [daN]		340 min.		
MATERIAL CORE		Aramid		
MATERIAL SLEEVE		Polyester		
WEIGHT LINE (g/m)		4.55		
WEIGHT CORE (g/m)		2.02		

REINFORCEMENT

FABRIC CODE		F06 391	F02 420
SUPPLIER	NAME	NCV industries Porcher Marine	
	ADDRESS	L'Isle d'Abeau Parc de Chesnes – 75 rue du Ruisseau 38070 ST QUENTIN FALLAVIER – FRANCE	
MATERIAL		Polyester	Polyester
STYLE		Dacron	Scrim
FINISH		E45A	X15A
WEIGHT (g/m2)		175	180
CONSTRUCTION			

RISER

MATERIAL		363181 (PES)
SUPPLIER	NAME	Techni Sangles
	ADDRESS	13. rue du Pilat – 42400 St CHAMOND, France
WEIGHT(GR/M)		42 +/- 3
BREAKING STRENGTH		1300 daN min
WIDTH(mm)		25

MAILLONS

MATERIAL		Stainless 316L
SUPPLIER	NAME	PEGUET
	ADDRESS	12 rue des Buchillons BP 205, 74105 Annemasse Cedex, FRANCE
WEIGHT(GR)		13.9
BREAKING STRENGTH (daN)		1000
DIAMETER(mm)		4

BRIDLE (ATTACHMENT LINES)

MATERIAL		137 128 134AJK000000 (PAD)
SUPPLIER	NAME	STUHA a.s.
	ADDRESS	Radima Drejsla 93, 818 13 Dobruška, Czech rep.
WEIGHT(GR/M)		3
BREAKING STRENGTH (N)		700
WIDTH(mm)		13

THREAD

MATERIAL		Synton 40 (PES filament 226 dtex x 1 x 3)	
SUPPLIER	NAME	AMANN	
	ADDRESS	AMANN Sponit Trading s. r. o. 407 44 Chřibská, Czech rep.	
DENIER		75.2 tex	
BREAKING STRENGTH (N)		431	
WEIGHT(GR/M)			

TYPE OF SEWING

PART	TYPE OF SEWING	REMARK
PROFILE		-----
BOTTOM SURFACE		
TOP SURFACE		
TRAILING EDGE		----- -----
LEADING EDGE		----- -----
SUSPENSION LINES		//////////