

# TECHNICAL FILE OF BUILDING

Glider Name : **BRIGHT III**

SIZE		S (24)	M (26)	L (28)	XL (30)
FLAT	AREA	23,94 m <sup>2</sup>	26,98 m <sup>2</sup>	29,89 m <sup>2</sup>	32,64 m <sup>2</sup>
	SPAN	10,70 m	11,35 m	11,95 m	12,49 m
	A.R	4,78	4,78	4,78	4,78
PROJEC TED	AREA	20,86 m <sup>2</sup>	23,50 m <sup>2</sup>	26,04 m <sup>2</sup>	28,44 m <sup>2</sup>
	SPAN	9,03 m	9,59 m	10,09 m	10,54 m
	A.R	3,91	3,91	3,91	3,91
CHORD	ROOT	2,77 m	2,94 m	3,09 m	3,23 m
	TIP	0,62m	0,66 m	0,69 m	0,72 m
TOTAL LINELENGTH		292,7 m	310,7 m	327,1 m	341,8 m
CELL NUMBER		40	40	40	40
GLIDER WEIGHT		4,8	5,3 kg	5,8 kg	6,1kg
HOOK IN WEIGHT		60 – 80	75 – 95 kg	90 – 110 kg	100 – 130 kg
FLIGHT SPEED	MIN.	21 km/h	21 km/h	21 km/h	21 km/h
	TRIM	36 km/h	36 km/h	36 km/h	36 km/h
	MAX.	48 km/h	48 km/h	48 km/h	48 km/h
AFNOR		-	-	-	-
D.H.V		1	1	1	1

# 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.	

## 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 38A	
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.	

## 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		979/1,1		
SUPPLIER	NAME	COUSIN Trestec S.A.		
	ADDRESS	8, rue Abbé Bonpain, B.P. 39 – 59117 WERVICQ SUD – FRANCE		
DIAMETER(mm)		1,1		
YARN COUNT				
NUMBER OF CORE				
BREAKING STRENGTH [daN]		98 min.		
MATERIAL CORE		Dyneema		
MATERIAL SLEEVE		Polyester		
WEIGHT LINE (g/m)		1,00		
WEIGHT CORE (g/m)		0.37		

## 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 – bottom level

MATERIAL		7343-140-***	7343-190-***	7343-230-***
SUPPLIER	NAME	EDELMANN + RIDDER		
	ADDRESS	Achener Weg 66, D-88316 ISNY im Allgäu, GERMANY		
DIAMETER(mm)		1,3	1,5	1,8
YARN COUNT				
NUMBER OF CORE				
BREAKING STRENGTH [daN]		140 min.	190 min.	230 min.
MATERIAL CORE		Aramid	Aramid	Aramid
MATERIAL SLEEVE		Polyester	Polyester	Polyester
WEIGHT LINE (g/m)		1,34	1,81	2,42
WEIGHT CORE (g/m)		0,67	0,88	1,14

## SUSPENSION LINE – bottom level

MATERIAL		7343-280-***		
SUPPLIER	NAME	EDELMANN + RIDDER		
	ADDRESS	Achener Weg 66, D-88316 ISNY im Allgäu, GERMANY		
DIAMETER(mm)		2,0		
YARN COUNT				
NUMBER OF CORE				
BREAKING STRENGTH [daN]		280 min.		
MATERIAL CORE		Aramid		
MATERIAL SLEEVE		Polyester		

WEIGHT LINE (g/m)	2,59		
WEIGHT CORE (g/m)	1,35		

## ALTERNATIVE 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	2,76	3.56
WEIGHT CORE (g/m)		0.93	1,13	1.41

## 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	
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## RISER

MATERIAL		472902 (PES)
SUPPLIER	NAME	A. HABERKORN Gesellschaft M. B. H. & CO. KG
	ADDRESS	Werndlstr. 3, Freistadt, Austria
WEIGHT(GR/M)		49 +/- 3
BREAKING STRENGTH		1300 daN
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)

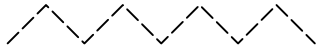
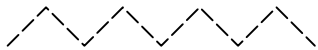
MATERIAL		137 128 134AJK000000 (PAD)
SUPPLIER	NAME	STUHA a.s.
	ADDRESS	Radima Drejsla 93, 818 13 Dobruška, Czech rep.
WEIGHT(GR/M)		3
BREAKING STRENGTH (N)		700

WIDTH(mm)	13
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## THREAD

MATERIAL		Syton 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	?	//////////