

Line breaking strength report

Inspection certification number : **CCC_020.2018**
 Manufacturer name: **Niviuk Gliders**
 Model name and size : **Icepeak Evox 20**
 Report valid for the other sizes of model : -

Maximum weight: **95** kg **93.1** daN

Line specification and line breaking strength in daN (strongest to weakest value) ⁽¹⁾

Line number	Manufacturer	Type no.	Breaking strength (daN)
1	Edelrid	8000U-360	370.6
2	Edelrid	8000U-130	121.75
3	Edelrid	8000U-090	97.9
4	Edelrid	8000U-070	65.8

Line number	Manufacturer	Type no.	Breaking strength (daN)
5	Edelrid	8000U-050	51.6
6	Liros	DC60	71.25
7	Liros	DC40	45.7
8	Liros	DC35	33.9

Line breaking strength, theoretical calculation (see details on the following pages) ⁽³⁾

		daN	g
Sum A+B+C+ Stabilo lines	Level 1	2656.90	28.54
	Level 2	2887.40	31.01
	Level 3	3221.20	34.60
	Level 4	3828.80	41.13
	Level 5	3917.20	42.08

A, B and C, the sum of each level must be equal or exceed 2300daN or 23g

Result **POSITIVE**

Place of inspection: **Villeneuve**
 Date of issue: **12.03.2019**
 Inspector: **Alain Zoller**

CIVL Competition Class (CCC)

Line junction and detailed line strength calculation

Level 1		Level 2		Level 3		Level 4		Level 5	
3a1	8000U-360	370.6							
	2a1	8000U-190	199.85	A1	8000U-090	97.9	a1	DC60	71.25
							b1	DC40	45.7
				A2	8000U-090	97.9	a2	DC60	71.25
							b2	DC40	45.7



			A3	8000U-090	97.9	a3	DC60	71.25	a3	DC60	71.25
	2a2	8000U-190	199.85			b3	DC40	45.7	b3	DC40	45.7
			A4	8000U-090	97.9	a4	DC60	71.25	a4	DC60	71.25
						b4	DC40	45.7	b4	DC40	45.7
Total:	741.2				799.4			783.2			935.6
			A5	8000U-090	97.9	a5	DC60	71.25	a5	DC60	71.25
	2a3	8000U-190	199.85			b5	DC40	45.7	b5	DC40	45.7
			A6	8000U-090	97.9	a6	DC60	71.25	a6	DC60	71.25
3a2	8000U-360	370.6				b6	DC40	45.7	b6	DC40	45.7
			A7	8000U-090	97.9	a7	DC40	45.7	a7	DC40	45.7
	2a4	8000U-190	199.85			b7	DC40	45.7	b7	DC40	45.7
			A8	8000U-090	97.9	a8	DC40	45.7	a8	DC40	45.7
						b8	DC40	45.7	b8	DC40	45.7
Total:	741.2				799.4			783.2			833.4
			2A5	8000U-070	65.8	a9	DC60	71.25	a9	DC60	71.25
						a10	DC60	71.25	a10	DC60	71.25
	3A3	8000U-090	97.9			A10	DC40	45.7	a11	DC35	33.9
									a12	DC35	33.9
			2A6	8000U-070	65.8	A11	DC40	45.7	a13	DC35	33.9
									a14	DC35	33.9
4A1	8000U-130	121.75				a15	DC35	33.9	a15	DC35	33.9
						a16	DC35	33.9	a16	DC35	33.9
						c15	DC35	33.9	c15	DC35	33.9
						c16	DC35	33.9	c16	DC35	33.9
	Stab	8000U-050	51.6								
Total:	243.5				299			534.4			739
			C1	8000U-050	51.6	c1	DC40	45.7	c1	DC40	45.7
	2c1	8000U-090	97.9			d1	DC35	33.9	d1	DC35	33.9
			C2	8000U-050	51.6	c2	DC40	45.7	c2	DC40	45.7
3c1	8000U-190	199.85				d2	DC35	33.9	d2	DC35	33.9
						c3	DC40	45.7	c3	DC40	45.7
	2c2	8000U-090	97.9			d3	DC35	33.9	d3	DC35	33.9
						c4	DC40	45.7	c4	DC40	45.7
						d4	DC35	33.9	d4	DC35	33.9
Total:	399.7				391.6			412.8			636.8
			c5	8000U-050	51.6	c5	8000U-050	51.6	c5	8000U-050	51.6
	2c3	8000U-090	97.9								
						c6	8000U-050	51.6	c6	8000U-050	51.6
3c2	8000U-190	199.85									
						c7	8000U-050	51.6	c7	8000U-050	51.6
	2c4	8000U-090	97.9								
						c8	8000U-050	51.6	c8	8000U-050	51.6
Total:	399.7				391.6			412.8			412.8



			c9	DC40	45.7	c9	DC35	33.9	c9	DC35	33.9	
	2c5	8000U-050	51.6									
				c10	DC35	33.9	c10	DC35	33.9	c10	DC35	33.9
3c3	8000U-070	65.8										
				c11	DC35	33.9	c11	DC35	33.9	c11	DC35	33.9
	2c6	8000U-050	51.6									
				c12	DC35	33.9	c12	DC35	33.9	c12	DC35	33.9
Total:		131.6			206.4			294.8			271.2	271.2

(1) Sum of each level for A, B, C, stabilo and brake suspension lines and value for the entire paragliding (part left and right (2X)). Subsequent levels are defined by each further line junction. First level is defined as the line attached to riser or main control handle.

