MANUAL







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CURE 2 OWNER'S MANUAL

Solo paraglider | EN / LTF C

Welcome to Bruce Goldsmith Design

BGD is a world leader in the design and production of paragliders. For many years Bruce Goldsmith and his team have been developing products with world-beating performance for pilots who want the best. We apply our competitive knowledge to design top quality products that combine the highest performance with the safe handling our customers value and respect. BGD pilots appreciate our quality and reliability. BGD's world-class status is based on the skills and expertise we have developed in combining aerodynamic design with cloth and materials technology. All BGD products are developed and made with the same skill and attention to good design that are synonymous with the ultimate performance and precision required by paragliders.

Congratulations on your purchase of the BGD CURE 2

The CURE 2 is a performance paraglider, certified LTF/EN-C. It is ideal for cross-country pilots looking for performance with low stress and is suitable for those stepping up from the EN-B class. It is not suitable for beginners. The CURE 2 has a new structure and profile, with 74 cells. It has a high top speed with excellent glide at speed and good stability in wind and turbulence. The new-design risers have a light and efficient C-steering system.

The CURE 2 has been designed to a high standard of safety and stability, but it will only retain these characteristics if it is properly looked after. This manual has been prepared to give you information and advice about your paraglider. If you ever need any replacement parts or further information, please do not hesitate to contact your nearest BGD dealer or contact BGD directly.

Please read this manual carefully from the first to the last chapter to ensure you get the best out of your paraglider.

DESIGN

GOLDSMITH

BRUCE

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2. INTRODUCTION

Limitations

The CURE 2 is a single-seat paraglider. It is not intended for tandem use or for aerobatic manoeuvres. It is suitable for winching. Both pilot and winch operator should have the necessary training and qualifications for winching, and the winch system should be certified for paraglider use.

This paraglider must not:

- 1. Be flown outside the certified weight range
- 2. Have its trim speed adjusted by changing the length of risers or lines
- 3. Be flown in rain or snow
- 4. Be towed with a tow-line tension in excess of 200kg

Test flight and Warranty

All information about the BGD warranty can be found on the Warranty page of our website. In order to enjoy the full benefits you must complete the warranty registration form on the website.

It is your dealer's responsibility to test fly the paraglider before you receive it, to check the trim settings are correct. The record of this is in the service booklet at the end of this manual – please check that this has been completed.

The warranty may be void if the test flight record has not been completed by the dealer.

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Weight Range

Each wing size is certified for a certain weight range. The weight refers to the 'overall take-off weight'. This means the weight of the pilot, the glider, the harness and all other equipment carried with you in flight. We generally recommend your paraglider is flown in the middle of the weight range.

If you mainly fly in weak conditions you might wish to fly towards the lower end of the weight range to benefit from a better sink rate. In the lower half of the weight range the turning agility will be lower and the glider will be more damped. In strong turbulence the wing will have a greater tendency to deform or collapse with a lower wing loading.

If you prefer dynamic flight characteristics, want better speed or fly in strong conditions you might choose to fly higher in the weight range. If you fly in the upper half of the weight range agility and speed will be higher and you will have greater stability in turbulence, but there will be reduced self-damping in turns and after collapses.

Modifications

Any modifications to your glider, e.g. changing the line lengths or the speed system, can cause a loss of airworthiness and certification. We recommend that you contact your dealer or BGD directly before performing any kind of modifications.

Brake lines

The length of the brake lines is set at the factory so that the trailing edge is not deformed at all when brakes are not applied. There should be around 7cm slack in the brake lines, before they take effect on the canopy.

It should not be necessary to shorten the brake lines. However, it is possible that shrinkage can occur. If necessary, the brake lines can be lengthened by adjusting the knots.

Harness

The paraglider has been tested with a 'GH' (without diagonal bracing) type harness. The GH category includes weightshift harnesses as well as ABS style (semi-stable) harnesses.

The harness complies with the EN standard harness dimensions, which are:

Seat board width: 42cm.

The horizontal distance between the attachment points of the paraglider risers (measured from the centre-line of the karabiners) must be:

38cm for pilots under 50kg 42cm for pilots from 50-80kg 46cm for pilots above 80kg

3. PREPARATION

Connecting the speedbar

Your paraglider comes with accelerator risers and can be flown with or without a speedbar attached. The speedbar should be connected and adjusted following the instructions in your harness manual to ensure correct routing of the lines. Connect the Brummel hooks on the speedbar to those on the risers' speed system, ensuring the lines run freely and are not caught around anything (reserve handle, risers or lines).

To adjust the speedbar length, sit in your harness and ask an assistant to hold the risers up in their in-flight position. The speedbar length should be adjusted, by moving the knots, so that the bar sits just beneath your harness seat. You should be able to hook your heels into the bar, and to attain full bar extension (the two pulleys touching) when you push your legs out. Once you have set the bar up in this way on the ground, a test flight in calm air can be useful to fine-tune the length, ensuring it is even on both sides.

On launch

- 1. Select a suitable take-off area determined by wind and terrain, clear of any obstacles that may catch in the lines or damage the canopy.
- 2. Take your paraglider to the top of the take-off area, and allow the canopy to unroll itself down the hill if on a slope. This should leave the paraglider with the bottom surface facing upwards, the openings at the downwind/ uphill end of the take-off area, and the harness at the trailing edge at the upwind side.
- 3. Unroll the canopy to each side so that the leading edge openings form a semicircular shape, with the trailing edge drawn together to form an arc. The harness should be drawn away from the canopy until the suspension lines are just tight.

. Preparation

Pre-flight inspection

Your paraglider is designed to be simple to inspect and maintain but a thorough pre-flight procedure is mandatory on all aircraft. The following pre-flight inspection procedure should be carried out before each flight.

- 1. Whilst opening the paraglider check the outside of the canopy for any tears where it could have been caught on a sharp object or even have been damaged whilst in its bag. Visually inspect the risers for any signs of damage.
- 2. Check the lines for signs of damage, twists or knots. Divide the suspension lines into groups, each group coming from one riser. By starting from the harness and running towards the canopy remove any tangles or twists in the lines. Partially inflating the canopy in the wind will help to sort out the lines.
- 3. Ensure the brakes are clear and free to move. Check the knot which attaches the brake handles to the brake lines. Avoid having too many knots, as there is a risk the knots could become stuck in the brake pulleys. Both brakes should be the same length and this can be checked by having an assistant hold the upper end of the brake lines together whilst you hold the brake handles. The brake lines should be just slack with the wing inflated when the brakes are not applied.
- 4. Always check the buckles and attachments on the harness. Ensure the two main attachment maillons/ karabiners from the harness to the main risers, and the individual shackles which attach the risers to the lines, are tightly done up.
- 5. Before getting in to the harness you should be wearing a good helmet. Check the parachute container is correctly closed and the handle is secure. Put on the harness ensuring all the buckles are fastened and that it is well adjusted for comfort.

Your paraglider is now ready for flight.

4. FLIGHT CHARACTERISTICS

This manual is not intended as an instruction book on how to fly your paraglider. You should be a qualified pilot, but the following comments describe how to get the best from your wing.

Take-off

SIGN

GOLDSMITH

RUCE

The wing is easy to inflate in light or stronger winds and will quickly rise overhead to the flying position. It will launch easily using either the forward launch technique (best for light winds) or reverse launch (best for stronger winds).

Forward Launch

Stand facing into wind with your back to the canopy and all the A-lines taut behind you, then take one or two steps back (do not walk all the way back to the canopy). Take an A-riser in each hand (the A-risers are marked with red cloth to make them easier to find) and begin your launch run pulling gently and smoothly on the A-risers. As soon as the canopy starts to rise off the ground stop pulling so hard on the A-risers but put pressure on all the risers evenly through the harness. Maintaining gentle pressure on the A-risers helps in very calm conditions. Have your hands ready to slow up the canopy with the brakes if it starts to accelerate past you.

Reverse Launch

In winds over 10km/h it is recommended to do a reverse launch and inflate the canopy whilst facing it, using the A-risers. Releasing pressure on the A-risers when it is at about 45° will help to stop it overshooting. The stronger the wind and the greater the pressure on the A-risers, the more quickly the canopy will rise. In stronger winds taking a step towards the glider as it rises can take some of the energy out of the glider and it will be less likely to overshoot.

Straight Flight

Your paraglider will fly smoothly in a straight line without any input. At the maximum in-flight weight, without the

4. Flight Characteristics

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accelerator it will fly at approximately the trim speed shown in the Specifications table.

Turning

Your wing does not require a strong-handed approach to manoeuvring. For a fast turn smoothly apply the brake on the side to which the turn is intended. The speed with which the brake is applied is very important. If a brake is applied fairly quickly the canopy will do a faster banking turn, but care must be taken not to bank too severely. To attain a more efficient turn at minimum sink, apply some brake to the outside wing to slow the turn and prevent excessive banking. The glider flies very well like this, but care must be taken not to over-apply the brakes, as this could result in a spin. The wing will turn far more efficiently if you weight-shift into the turn in the harness. Remember that violent brake application is dangerous and should be avoided.

Active piloting

The objective of active piloting is to get the glider to fly smoothly through the air with a stable position above your head, and controlled angle of incidence. Active piloting means flying in empathy with your paraglider, guiding it through the air and being aware of feedback from the wing. If the air is smooth the feedback can be minimal but in turbulence feedback is continuous and needs to be constantly checked.

In order to get the best performance from your wing, it is best to control it though small brake inputs and weightshift rather than constantly being present on the brakes. A small brake movement early is more efficient than a big input later. The more you let the glider fly at trim speed, the better performance you will get out of it.

Your paraglider is resistant to collapse without any pilot action, but flying actively will increase the safety margin. Active piloting can make your flying experience safer and more enjoyable, and it becomes instinctive in good pilots.

Thermalling

To attain the best climb rate your wing should be thermalled using a mild turn, as described above, keeping banking to a minimum. In strong thermals a tighter banking turn can be used to stay closer to the thermal's core. Remember that weight-shifting in the harness will make the turn more efficient and reduce the amount of brake required.

Care must be taken not to apply so much brake as to stall. This is easy to avoid as the brake pressure increases greatly as you approach the stall point. Only fly near the stall point if you have enough height to recover (at least 100m).

Speed System

The CURE 2 is a fast paraglider with a top speed of 60 km/h. This means it has a full 20km/h of acceleration on the speed bar (the 'delta'). This is almost double what you would find on a typical paraglider where 10-12 km/h is more typical.

Having more speed available on the speed-bar means that you need to manage the speed. You cannot simply stamp on the speed-bar and go to full speed without managing the pitch. The same goes for releasing the speed-bar.

The best technique to use when you accelerate is to speed up in two steps. Apply the first bar and the glider will surge forward slightly. If you hold first bar on for a few seconds then the glider will start to move back overhead. As this happens, press the second stage of the speed-bar. Then the surge forward will exactly counter the backwards movement of the wing. This careful pitch management improves the efficiency of the glide as well as keeping the glider stable overhead.

When you come off the bar it is also important to do so in a smooth and progressive way, to manage the pitch. It is possible for many paragliders to front-collapse if the bar is released too quickly.

Get fully used to using half speed-bar before you use the full speed-bar.

IMPORTANT:

- 1. Practise using the speed system in normal flying.
- 2. Be careful flying fast in rough or turbulent conditions as deflations are more likely to occur at speed. The speed increase is achieved by reducing the angle of attack, so the canopy has slightly more collapse tendency.
- 3. Remember that your glide deteriorates at higher speeds. Best glides are achieved when the risers are level and the brakes are off.

Check the component parts of the speed system regularly for wear, and ensure that it always works smoothly.

C-steering

The CURE 2 is designed with an effective and light C-steering system that allows you to actively pilot the wing without using the brakes which is particularly useful when flying accelerated. When you pull the C-riser, 33% of the force acts on the B-riser too. This setup reduces the steering pressure compared to acting on the B risers with 50%.

To fly with the C-steering system, keep hold of the brakes, and place your fingers either side of the C-riser, as shown in FIG. 1. You can apply pressure to the C-risers to make small pitch adjustments when gliding, especially on speed. The C-steering can also be used to control direction, but you must take care not to accidentally stall the glider as the range is much less than on the brakes.

Rapid descent procedures

Big Ears

The wingtips of your paraglider can be folded in to increase its sink rate. The Big Ear facility allows you to descend quickly without substantially reducing the forward speed of your glider. (B-line stalls also allow for fast descent, but

C-steering



FIG. 1: To use the C-steering system, place your fingers either side of the C-riser and grasp the C-handle. Applied pressure acts on the C- and B-risers in a 3:1 ratio.

they result in greatly reduced forward speed).

To engage Big Ears, lean forward in the harness and grasp the outer A-lines, or the maillons of the 'Baby-A' risers, keeping hold of both brake handles if possible. Pull the outer A-lines or Baby-A risers out and down at least 30cm so as to collapse the tips of the glider. It is very important that the other A-lines are not affected when you do this as pulling these could cause the leading edge to collapse. Steering with Big Ears in is possible by weight-shifting. When you let go of the outer A-lines or the Baby A risers, the Big Ears will come out on their own. A pump on the brakes can speed this up if necessary.

Before using Big Ears in earnest you should practise with plenty of ground clearance in case a leading-edge collapse occurs. Always keep hold of both brakes in order to retain control. Putting your hands through the brake handles so they remain on your wrists is a good method of doing this.

B-Line Stall

This is a fast descent method and is a useful emergency procedure. With both hands through the brake handles, take hold of the top of the B-risers, one in each hand, and pull them down by around 50cm. This will stall the canopy and its forward speed will drop to zero. Make sure you have plenty of ground clearance because the descent rate can be over 10m/sec. To increase the descent rate pull harder on the B-risers. When you release the B-risers the canopy will automatically start flying again, normally within two seconds. Sometimes the canopy will turn gently when it exits from the B-line stall. It is normally better to release the B-risers fairly quickly rather than slowly, as the latter may result in the canopy entering deep stall. Always release the risers symmetrically, as an asymmetric release from a B-line stall may result in the glider entering a spin.

B-line stalls are useful if you need to lose a lot of height quickly, perhaps to escape from a thunderstorm. They should not be performed with less than 100m of ground clearance (see also also Chapter 5).

Spiral Dive

A normal turn can be converted into a spiral dive by continuing to apply one brake. The bank angle and speed of the

4. Flight Characteristic

turn will increase as the downward spiral is continued. Be careful to enter the spiral gradually, as too quick a brake application can cause a spin or an over-the-nose spiral.

If you increase the descent rate of the spiral to over 16m/s or initiate an over-the-nose spiral, the glider may require input to recover. In this case you should apply some outside brake and steer the glider out of the turn.

If you make a sudden brake application during the spiral entry the glider can yaw around and enter an over-the-nose spiral where the nose of the glider ends up pointing at the ground and it picks up speed very quickly. This technique is very similar to SAT entry technique, and like the SAT it is an aerobatic manoeuvre which is outside the normal safe flight envelope. Please do not practise this manoeuvre unless supervised by a qualified SIV instructor, as it can be dangerous.

Care should be taken when exiting from any spiral dive. To pull out of a steep spiral dive, release the applied brake gradually or apply opposite brake gradually. A sharp release of the brake can cause the glider to surge and dive as the wing converts speed to lift. Always be ready to damp out any dive with the brakes. Also be ready to encounter turbulence when you exit from a spiral because you may fly though your own wake, which can cause a collapse.

CAUTION: SPIRAL DIVES CAN CAUSE LOSS OF ORIENTATION (black out) AND TAKE SOME TIME TO EXIT FROM. THIS MANOEUVRE MUST BE EXITED IN TIME AND WITH SUFFICIENT HEIGHT!

Landing

Landing is very straightforward. When landing in light winds, flare in the normal way from an altitude of around 2m. It may sometimes help to take wraps on the brakes to make the flare more effective. Strong-wind landings require a different technique. If you use the brakes to flare in a strong wind the wing tends to convert this energy to height, which can be a problem. The best method is to take hold of the rear-risers at the maillons just before landing, and collapse the canopy using these when you have landed. The glider will collapse very quickly using this method. After landing, the B-risers can also be used to collapse the canopy, although it is more difficult to control the collapsed canopy on the ground with the B-risers.

5. Recovery Techniques

5. RECOVERY TECHNIQUES

Stalls

Stalls are dangerous and should not be practised in the course of normal flying. Stalls are caused by flying too slowly. Airspeed is lost as brake pressure increases and as the canopy approaches the stall point it will start to descend vertically and finally begin to collapse. Should this occur it is important that the pilot releases the brakes at the correct moment. The brakes should never be released when the wing has fallen behind the pilot; the brakes should be released fairly slowly, to prevent the forward dive of the canopy from being too strong. A pre-release of the brakes and the reconstruction of the full span is recommended to avoid the tips getting cravatted during the recovery. Pilots are advised never to attempt this manoeuvre unless under SIV instruction. This manual is not intended to give instruction in this or any other area.

Deep Stall (or Parachutal Stall)

Your paraglider has been designed so that it will not easily remain in a deep stall. However, if it is incorrectly rigged or its flying characteristics have been adversely affected by some other cause, it is possible that it could enter this situation. In the interests of safety all pilots should be aware of this problem, and know how to recover from it. The most common way to enter deep stall is from a flying too slowly, from a B-line stall or even from big ears. When in deep stall the pilot will notice the following:

- 1. Very low airspeed.
- 2. Almost-vertical descent (like a round canopy), typically around 5m/s.
- 3. The paraglider appears quite well inflated but does not have full internal pressure. It looks and feels a bit limp.

Recovery from deep stall is quite simple: The normal method is to simply initiate a mild turn. As the canopy starts to turn it will automatically revert to normal flight, but it is very important not to turn too fast as this could induce a spin.

The second method is to pull gently on the A-risers. This helps the airflow to re-attach to the leading edge, but be careful not to pull down too hard as this will induce a front collapse.

If the deep stall is particularly stubborn and the previous methods do not work then a full stall will solve the problem. To do this apply both brakes fairly quickly, as if to do a strong stall, then immediately release both brakes and damp out the forward surge in the normal way. The canopy will swing behind you then automatically reinflate and surge forward in front of you before returning to normal flight. It is the surge forward that exits the canopy from deep stall.

Spins

Spins are dangerous and should not be practised in the course of normal flying. Spins occur when the pilot tries to turn too fast. In a spin the pilot, lines and canopy basically stay vertical and rotate around a vertical axis. Your glider will resist spinning, but if a spin is inadvertently induced you should release the brake pressure but always be ready to damp out any dive as the glider exits the spin. Failure to damp the dive on exiting the spin may result in an asymmetric deflation.

Symmetric Front Collapse

It is possible that turbulence can cause the front of the wing to symmetrically collapse, though active piloting can largely prevent this from occurring accidentally. A pilot can reproduce the effect by taking hold of both the A-risers and pulling down sharply on them. The glider will automatically recover on its own from this situation in around three seconds. During this recovery period it is advisable not to apply the brakes as this could stall the wing.

Asymmetric Front Collapse

Your paraglider is very resistant to deflations; however if the canopy collapses on one side due to turbulence, you should first of all control the direction of flight by countering on the opposite brake. Most normal collapses will immediately reinflate on their own and you will hardly have time to react before the wing reinflates automatically. The act of controlling the direction will

5. Recovery Techniques

tend to reinflate the wing. However, with more persistent collapses it may be necessary to pump the brake on the collapsed side using a long, strong, smooth and firm action. Normally one or two pumps of around 80cm will be sufficient. Each pump should be applied in about one second and smoothly released. In severe cases it can be more effective to pump both brakes together to get the canopy to reinflate. Be careful not to stall the wing completely if this technique is used.

Releasing a trapped tip (cravat)

Following a severe deflation it is possible for a wingtip to become trapped in the glider's lines (cravat). If this occurs then first of all use the standard method of recovery from a tip deflation as described in Asymmetric Front Collapse above. If the canopy still does not recover then pull the rear risers to help the canopy to reinflate. Pulling the stabilo line is also a good way to remove cravats, but remember to control your flight direction as your number-one priority. If you are very low then it is much more important to steer the canopy into a safe landing place or even throw your reserve.

NOTE: Test pilots have tested the model well beyond the normal flight envelope, but such tests are carried out in a very precise manner by trained test pilots with a back-up parachute, and over water. Stalls and spins on any paragliders are dangerous manoeuvres and are not recommended.

Loss of brakes

In the unlikely event of a brake line snapping in flight, or a handle becoming detached, the glider can be flown by gently pulling the rear risers for directional control.

6. Storage and Servicing

6. STORAGE AND SERVICING

Storage

If you have to pack your canopy away wet, do not leave it for more than a few hours in that condition. As soon as possible dry it out, but do not use direct heat sources as it is inflammable!

Always store the canopy in a dry, warm place. Ideally this should be in the temperature range of 5°C to 13°C. Never let your canopy freeze, particularly if it is damp.

Your paraglider is made from high quality nylon which is treated against weakening from ultraviolet radiation However, UV exposure will still weaken the fabric and prolonged exposure to harsh sunlight can severely compromise the safety of your canopy. Therefore once you have finished flying, put your wing away. Do not leave it laying in strong sunshine unnecessarily. If you are concerned about any aspect of the integrity of your paraglider please contact your nearest BGD dealer or talk to BGD directly.

Do not treat your canopy with chemical cleaners or solvents. If you must wash the fabric, use warm water and a little soap. If your canopy gets wet in sea water, wash it with warm water and carefully dry it.

Small Repairs

Small tears in the top or bottom surface (not normally the ribs) of a canopy can be repaired with a patch of selfadhesive ripstop nylon. Tears no longer than 100mm can be repaired in this way providing they are not in high-stress areas. If you have any doubt about the airworthiness of your canopy please contact your dealer or BGD directly.

Servicing / Inspection

It is important to have your glider regularly serviced. Your wing should have a thorough check / inspection every 24 months or every 200 flight hours, whichever occurs first. This check must be made by the manufacturer, importer, distributor or other authorised persons.

Please print out the service pages from this manual, fill in the number of flights and hours flown in the Service Record, and send together with your glider when it goes for inspection or servicing. The manufacturer will only accept responsibility for paraglider lines and repairs which we have produced and fitted or repaired ourselves.

Environmental protection and recycling

Our sport takes place in the natural environment, and we should do everything to preserve our environment. A glider is basically made of nylon, synthetic fibres and metal. At the end of your paraglider's life, please remove all metal parts and put the different materials in an appropriate waste/recycling plant.

7. Technical data

7. TECHNICAL DATA

Materials

The CURE 2 is made from the following quality materials:

Top surface CCB: Top surface back:	Porcher Skytex 38g/m² Porcher Skytex 32g/m²
Bottom surface LE:	Porcher Skytex 32g/m ²
Bottom surface:	Porcher Skytex 27g/m ²
Ribs:	Porcher Skytex 32g/m ² Hard
Nose reinforcing: Risers:	Ratioparts 12mm Rivori black nylon webbing
Pulleys:	Spenger Ronstan P18
Top lines:	Edelrid 8000U series (unsheathed)
Middle lines:	Edelrid 8000U series (unsheathed)
Lower lines:	Edelrid 8000U series (unsheathed)
Brakes:	Liros DC60 & DC100

Spare parts can be obtained directly from BGD or though our network of registered BGD repair shops.

For a full list check <u>www.flybgd.com</u>

Specifications

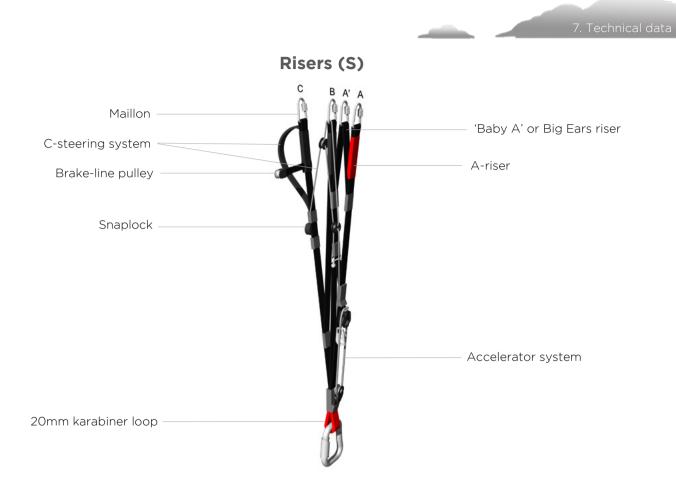
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	XS	S	М	ML	L
Linear scaling factor	0.93	0.97	1	1.04	1.08
Projected area (m ²)	16.9	18.1	19.4	20.8	22.6
Flat area (m²)	20.0	21.5	23.0	24.6	26.8
Glider weight (kg)	4.6	4.8	5.0	5.3	5.6
Total line length (m)	218	234	250	268	292
Height (m)	7.0	7.2	7.46	7.7	8.1
Number of main lines			3/4/3		
Cells			74		
Flat aspect ratio			6.4		
Projected aspect ratio			4.8		
Root chord (m)	2.2	2.3	2.3	2.4	2.5
Flat span (m)	11.4	11.8	12.2	12.7	13.2
Projected span (m)	9.0	9.4	9.7	10.0	10.5
Certified weight range (kg)	56 - 75	65 - 85	75 - 95	85 - 107	98 - 122
ldeal weight range (kg)	64 - 73	73 - 83	83 - 93	93 - 105	105 - 120
Trim speed (km/h)			39		
Top speed (km/h)			60		
Min. sink (m/s)			1		
Best glide			11		
Certification			EN+LTF: C		



Overview of glider parts

Cell openings



The riser set does not have trimmers, or any other adjustable or removable device.

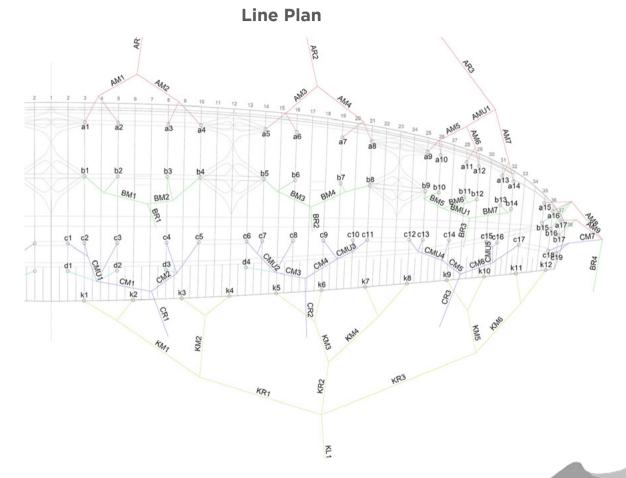
CURE 2 manual EN-1.4 January 2020

Brake and accelerator travel

Size	Riser length (mm)*	Accelerator travel (mm)	Brake range (cm)**
xs	460	130	55
S	500	150	58
М	500	150	60
ML	500	150	62
L	500	150	65

*Actual riser lengths may differ by not more than 5mm

** Maximum symmetric control travel at maximum weight in flight



7. Technical data

Line length checks

All measures are in mm, with 50N line tension, this tension being slowly and gradually applied before taking the measurement.

The lengths are measured from the lower surface of the canopy to the inside edge of the maillon connecting them to the risers.

During the EN certification process, the test team has checked the lengths of the suspension lines, control lines and risers given in the manual against the sample glider, after the test flights have been carried out.

The difference in line length between the manual and the sample may be no more than 10mm.

The actual measurements for the samples tested during EN certification can be found in the Appendix of this manual.

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6285		

Α		В		с		D		к	
al	706	b1	978	c1	263	d1	922	k1	650
a2	631	b2	926	c2	179	d2	791	k2	360
аЗ	655	b3	660	c3	681	d3	693	k3	511
a4	684	b4	663	c4	576	d4	954	k4	509
a5	622	b5	652	c5	622			k5	547
a6	552	b6	579	c6	251			k6	352
a7	604	b7	590	с7	183			k7	378
a8	606	b8	597	c8	731			k8	482
a9	266	b9	237	с9	754			k9	408
a10	223	b10	194	c10	223			k10	369
a11	227	b11	197	c11	260			k11	201
a12	217	b12	193	c12	213			k12	352
a13	213	b13	164	c13	141			KM1	1153
a14	207	b14	167	c14	549			KM2	819
a15	342	b15	336	c15	159			KM3	919
a16	286	b16	322	c16	164			KM4	833
a17	219	b17	265	c17	528			KM5	535
AM1	1248	BM1	1685	c18	237			KM6	746
AM2	1186	BM2	1921	c19	579			KR1	2773
AM3	1473	BM3	1334	CMU1	579			KR2	2467
AM4	1359	BM4	1266	CM2	1164			KR3	2713
AM5	936	BM5	839	CMU2	628			KL1	2744
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AM8	212	BR1	3711	CMU5	323				
AM9	258	BR2	4249	CM7	409				
AR1	4524	BMU1	474	CM1	1092				
AR2	4203	BR4	5157	CM3	819				
AMU1	551	BR3	4455	CM5	629				
AR3	4293			CM6	659				
				CR1	4648				
				CR2	4693				
				CR3	4807				
				CM4	759				

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al	732	b1	1014	c1	274	d1	963	k1	674
a2	655	b2	960	c2	187	d2	828	k2	374
аЗ	677	b3	684	c3	707	d3	723	k3	529
a4	709	b4	688	c4	597	d4	996	k4	528
a5	645	b5	676	c5	645			k5	567
a6	573	b6	601	c6	260			k6	366
a7	626	b7	612	с7	190			k7	392
a8	628	b8	619	c8	759			k8	501
a9	276	b9	246	с9	781			k9	424
a10	232	b10	202	c10	232			k10	383
a11	235	b11	205	c11	269			k11	209
a12	226	b12	201	c12	221			k12	365
a13	221	b13	170	c13	146			KM1	1193
a14	215	b14	173	c14	569			KM2	851
a15	355	b15	349	c15	165			KM3	952
a16	297	b16	334	c16	171			KM4	863
a17	227	b17	275	c17	547			KM5	554
AM1	1291	BM1	1745	c18	253			KM6	772
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AM3	1525	BM3	1381	CMU1	600			KR2	2568
AM4	1409	BM4	1313	CM2	1206			KR3	2823
AM5	969	BM5	869	CMU2	650			KL1	2852
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AM7	1421	BM7	1290	CMU4	518				
AM8	220	BR1	3860	CMU5	335				
AM9	267	BR2	4422	CM7	423				
AR1	4704	BMU1	490	CM1	1129				
AR2	4374	BR4	5364	CM3	847				
AMU1	570	BR3	4636	CM5	652				
AR3	4466			CM6	682				
				CR1	4832				
				CR2	4882				
				CR3	4999				
				CM4	786				

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	2 7432 7342 7517 7572 7620 3 7392 7313 7440 7543 7427 4 7424 7317 7407 7510 7426 5 7322 7257 7457 7249 6 7246 7178 7411 7040 7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6910 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6656 6988 7157 7161 15 6664 6678 6940 7157 7161 16 6623 6662 6946 6945 6164 61649		Α	в	с	D	к
3 7392 7313 7440 7543 7427 4 7424 7317 7407 7510 7426 5 7322 7257 7457 7249 6 7246 7178 7411 7040 7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6910 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 716 14 6858 6678 6940 716 15 6664 6678 6940 716 16 6623 6662 6946 717 17 6597 6649 6995 7157 18 6790 6791 716	3 7392 7313 7440 7543 7427 4 7424 7317 7407 7510 7426 5 7322 7257 7457 7249 6 7246 7178 7411 7040 7 7183 7120 7337 6975 8 7184 7127 7259 7057 9 7046 7003 7221 6910 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 716 14 6858 6626 6988 7157 716 15 6684 6678 6940 7157 716 16 6623 6662 6946 7157 716 17 6597 6649 6995 7157 716 18 6790 6790 6791 7157 19 6895 <	1	7512	7400	7606	7712	7931
4 7424 7317 7407 7510 7426 5 7322 7257 7457 7249 6 7246 7178 7411 7040 7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6910 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6859 7157 7116 13 6865 6854 7078 7161 14 6858 6626 6988 7161 15 6664 6678 6940 7161 16 6623 6662 6946 7161 17 6597 6649 6990 7161 18 6790 6791 7161	4 7424 7317 7407 7510 7426 5 7322 7257 7457 7249 6 7246 7178 7411 7040 7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6910 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6626 6988 7116 15 6684 6678 6940 7116 16 6623 6662 6946 7116 17 6597 6649 6990 7116 18 7 6791 7116 7116 19 1 6649 6940 7116 19 1 6791 7116 7116 19 1 </td <td>2</td> <td>7432</td> <td>7342</td> <td>7517</td> <td>7572</td> <td>7620</td>	2	7432	7342	7517	7572	7620
5 7322 7257 7457 7249 6 7246 7178 7411 7040 7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6914 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 716 14 6858 6656 6988 1 1 15 6664 6678 6995 1 1 16 6623 6662 6969 1 1 17 6597 6649 6995 1 1 18 6790 6791 1 1	5 7322 7257 7457 7249 6 7246 7178 7411 7040 7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6914 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6656 6988 1 1 15 6684 6678 6940 1 1 16 6623 6662 6968 1 1 1 17 6597 6649 6995 1 1 1 18 6791 6791 1 1	3	7392	7313	7440	7543	7427
6 7246 7178 7411 7040 7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6954 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6656 6988 7157 7116 15 6684 6678 6940 7157 7116 16 6623 6662 6946 7157 7116 17 6597 6649 6995 7157 7116 18 6623 6674 6995 7157 7116 19 6790 7091 7157 7116	6 7246 7178 7411 7040 7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6954 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6656 6988 7157 7116 15 6684 6678 6940 7157 7116 16 6623 6662 6946 7157 7116 17 6597 6649 6995 7157 7116 18 6623 6679 6995 7157 7116 19 6790 7091 7157 7116	4	7424	7317	7407	7510	7426
7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6954 100 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 116 14 6858 6656 6988 15 6684 6698 15 66684 6678 6940 16 17 6597 6649 6955 18 6790 6790 6791 1 1 1 Bridle check 6781 6790 1 1 1 1	7 7183 7120 7337 6975 8 7184 7127 7259 7087 9 7046 7003 7221 6954 100 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 116 14 6858 6656 6988 15 6684 6698 15 66684 6678 6940 14 14 14 14 14 14 14 15 15 15 16 14	5	7322	7257	7457		7249
8 7184 7127 7259 7087 9 7046 7003 7221 6954 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 116 14 6858 6656 6988 15 6684 6678 6940 16 6623 6662 6946 6955 18 6790 19 6791	8 7184 7127 7259 7087 9 7046 7003 7221 6954 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 116 14 6858 6656 6988 15 6684 6678 6940 16 6623 6662 6946 6790 11 6790 11 18 6790 6791 11 11 6797	6	7246	7178	7411		7040
9 7046 7003 7221 6954 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6656 6988 15 6684 6678 6940 16 6623 6662 6946 6790 1 1 1 18 - - 6790 6791 1 1	9 7046 7003 7221 6954 10 7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6656 6988 15 6684 6678 6940 16 6623 6662 6946 6790 1 1 1 18 - - 6790 6791 1 1	7	7183	7120	7337		6975
7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6856 6988 15 6684 6678 6940 15 6684 6678 6940 10 10 10 10 16 6623 6662 6946 6790 10 10 18 - 6791 6791 10	7000 6956 7227 6910 11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6856 6988 15 6684 6678 6940 15 6684 6678 6940 10 10 10 10 16 6623 6662 6946 6790 10 10 18 - 6791 6791 10	8	7184	7127	7259		7087
11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6856 6988 15 15 6684 6678 6940 16 6623 6662 6946 17 6597 6649 6995 18 6781 6781	11 6921 6884 7265 6956 12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6856 6988 15 15 6684 6678 6940 16 6623 6662 6946 17 6597 6649 6995 18 6781 6781	9	7046	7003	7221		6954
12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6856 6988 15 6684 6678 6940 15 6684 6678 6946 6955 16 17 6597 6649 6959 19 10 10 6790 10 10 6781 10 10 10 10 10 6781 10	12 6910 6879 7157 7116 13 6865 6854 7078 7116 14 6858 6856 6988 15 6684 6678 6940 15 6684 6678 6946 6955 16 17 6597 6649 6959 19 10 10 6790 10 10 6781 10 10 10 10 10 6781 10	10	7000	6956	7227		6910
13 6865 6854 7078 14 6858 6856 6988 15 6684 6678 6940 16 6623 6662 6946 17 6597 6649 6995 18 - 6790 19 - 6781	13 6865 6854 7078 14 6858 6856 6988 15 6684 6678 6940 16 6623 6662 6946 17 6597 6649 6995 18 - 6790 19 - 6781	11	6921	6884	7265		6956
14 6858 6856 6988 15 6684 6678 6940 16 6623 6662 6946 17 6597 6649 6995 18 6790 19 6781	14 6858 6856 6988 15 6684 6678 6940 16 6623 6662 6946 17 6597 6649 6995 18 6790 19 6781	12	6910	6879	7157		7116
15 6684 6678 6940 16 6623 6662 6946 17 6597 6649 6995 18 6790 19 6781	15 6684 6678 6940 16 6623 6662 6946 17 6597 6649 6995 18 6790 19 6781	13	6865	6854	7078		
16 6623 6662 6946 17 6597 6649 6995 18 6790 19 6781	16 6623 6662 6946 17 6597 6649 6995 18 6790 19 6781	14	6858	6856	6988		
17 6597 6649 6995 18 6790 19 6781	17 6597 6649 6995 18 6790 19 6781	15	6684	6678	6940		
18 6790 19 6781	18 6790 19 6781	16	6623	6662	6946		
19 6781 Bridle check	19 6781 Bridle check	17	6597	6649	6995		
Bridle check 🔺	Bridle check 🔺	18			6790		
		19			6781		

Α		в		с		D		к	
al	757	b1	1049	c1	283	d1	1004	k1	699
a2	678	b2	993	c2	194	d2	865	k2	389
аЗ	701	b3	707	c3	732	d3	756	k3	547
a4	734	b4	712	c4	618	d4	1039	k4	547
a5	668	b5	700	c5	669			k5	587
a6	593	b6	622	c6	270			k6	379
a7	648	b7	633	c7	197			k7	406
a8	650	b8	641	c8	786			k8	519
а9	285	b9	255	c9	809			k9	439
a10	240	b10	209	c10	240			k10	396
a11	244	b11	212	c11	279			k11	217
a12	234	b12	208	c12	229			k12	378
a13	229	b13	176	c13	151			KM1	1233
a14	223	b14	179	c14	590			KM2	882
a15	367	b15	361	c15	171			KM3	985
a16	307	b16	346	c16	177			KM4	893
a17	235	b17	285	c17	567			KM5	573
AM1	1335	BM1	1803	c18	262			KM6	798
AM2	1272	BM2	2060	c19	254			KR1	2989
AM3	1577	BM3	1427	CMU1	620			KR2	2667
AM4	1457	BM4	1358	CM2	1248			KR3	2932
AM5	1002	BM5	899	CMU2	673			KL1	2958
AM6	924	BM6	829	CMU3	580				
AM7	1470	BM7	1335	CMU4	535				
AM8	227	BR1	4010	CMU5	346				
AM9	276	BR2	4593	CM7	438				
AR1	4883	BMU1	507	CM1	1166				
AR2	4543	BR4	5567	CM3	875				
AMU1	589	BR3	4815	CM5	674				
AR3	4640			CM6	705				
				CR1	5022				
				CR2	5076				
				CR3	5199				
				CM4	814				

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2 7685 7593 7769 7818 3 7645 7564 7690 7791 4 7678 7568 7656 7754 5 7576 7509 7709 754 5 7576 7509 7709 754 6 7497 7428 7659 757 7 7434 7368 7585 7576 8 7435 7374 7503 7434 90 7291 7246 7464 7404 100 7242 7198 7400 7414 11 7162 7123 7509 7519 12 7104 7092 7319 7414 7096 7014 7225 15 6919 6912 1715 7014 7027 7014 7027 16 6856 6881 7232 7014 7014 7014 7014 19 7027 7018 7014 7014 7014	A B C D K	D	с	в	Α	
3 7645 7564 7690 7791 4 7678 7568 7656 7754 5 7576 7509 7709 6 7497 7428 7659 7 7434 7368 7553 8 7435 7374 7503 9 7291 7246 7464 10 7242 7198 7400 11 7162 7123 7509 12 7104 7092 7319 14 7096 6912 1715 15 6919 6912 1715 16 6856 6896 782 17 6828 6881 7232 18 7027 7018	7769 7651 7862 7963 8243	7963	7862	7651	7769	1
4 7678 7568 7656 7754 5 7576 7509 7709 6 7497 7428 7659 7 7434 7368 7585 8 7435 7374 7503 9 7291 7246 7464 100 7242 7198 7400 11 7162 7123 7509 12 7104 7092 7319 14 7096 6912 1715 15 6919 6912 1715 16 6856 6881 7232 17 6828 6881 7232 18 7027 19 7018	7685 7593 7769 7818 7923	7818	7769	7593	7685	2
5 7576 7509 7709 6 7497 7428 7659 7 7434 7368 7585 8 7435 7374 7503 9 7291 7246 7464 10 7242 7198 7470 11 7162 7123 7509 12 7150 7118 7400 13 7104 7092 7319 14 7096 6912 7175 16 6856 6896 7182 17 6828 6881 7232 18 7027 19 7018	7645 7564 7690 7791 7724	7791	7690	7564	7645	3
7 7497 7428 7659 7 7434 7368 7585 8 7435 7374 7503 9 7291 7246 7464 10 7242 7198 7470 11 7162 7123 7509 12 7150 7118 7400 13 7104 7092 7319 14 7096 6912 7175 16 6856 6896 7182 17 6828 6881 7232 18 7027 19 7018	7678 7568 7656 7754 7724	7754	7656	7568	7678	4
7 7434 7368 7585 8 7435 7374 7503 9 7291 7246 7464 10 7242 7198 7470 11 7162 7123 7509 12 7150 7118 7400 13 7104 7092 7319 14 7096 6912 7175 16 6856 6896 7182 17 6828 6881 7232 18 7027 7018	7576 7509 7709 7543		7709	7509	7576	5
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11 7162 7123 7509 12 7150 7118 7400 13 7104 7092 7319 14 7096 7094 7225 15 6919 6912 7175 16 6856 6896 7182 17 6828 6881 7232 18 7018	7291 7246 7464 7220		7464	7246	7291	9
12 7150 7118 7400 13 7104 7092 7319 14 7096 7094 7225 15 6919 6912 7175 16 6856 6896 7182 17 6828 6881 7232 18 7018	7242 7198 7470 7175		7470	7198	7242	10
13 7104 7092 7319 14 7096 7094 7225 15 6919 6912 7175 16 6856 6896 7182 17 6828 6881 7232 18 7027 19 7018	7162 7123 7509 722		7509	7123	7162	11
14 7096 7094 7225 15 6919 6912 7175 16 6856 6896 7182 17 6828 6881 7232 18 7027 7018 Bridle check	7150 7118 7400 7386		7400	7118	7150	12
15 6919 6912 7175 16 6856 6896 7182 17 6828 6881 7232 18 7027 7018 19 1 7018	7104 7092 7319		7319	7092	7104	13
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17 6828 6881 7232 18 7027 19 7018	6919 6912 7175		7175	6912	6919	15
18 7027 19 7018	6856 6896 7182		7182	6896	6856	16
19 7018 Bridle check	6828 6881 7232		7232	6881	6828	17
Bridle check 🔺	7027		7027			18
	7018		7018			19
	check ▲ line lengths ►					

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a3	725	b3	732	сЗ	759	d3	776	k3	566
a4	759	b4	737	c4	639	d4	1067	k4	567
a5	691	b5	724	c5	693			k5	607
a6	613	b6	644	с6	279			k6	393
a7	671	b7	656	с7	206			k7	420
a8	673	b8	663	c8	814			k8	538
а9	296	b9	264	с9	838			k9	455
a10	248	b10	217	c10	249			k10	411
a11	253	b11	220	c11	289			k11	225
a12	242	b12	216	c12	237			k12	391
a13	238	b13	183	c13	157			KM1	1275
a14	231	b14	186	c14	611			KM2	914
a15	381	b15	374	c15	177			KM3	1019
a16	319	b16	359	c16	184			KM4	925
a17	244	b17	295	c17	587			KM5	594
AM1	1380	BM1	1863	c18	271			KM6	826
AM2	1316	BM2	2131	c19	263			KR1	3101
AM3	1631	BM3	1477	CMU1	642			KR2	2773
AM4	1508	BM4	1405	CM2	1293			KR3	3027
AM5	1036	BM5	930	CMU2	696			KL1	3092
AM6	956	BM6	857	CMU3	600				
AM7	1521	BM7	1380	CMU4	554				
AM8	235	BR1	4165	CMU5	358				
AM9	285	BR2	4771	CM7	453				
AR1	5068	BMU1	524	CM1	1206				
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AMU1	610	BR3	5001	CM5	698				
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				CM4	842				

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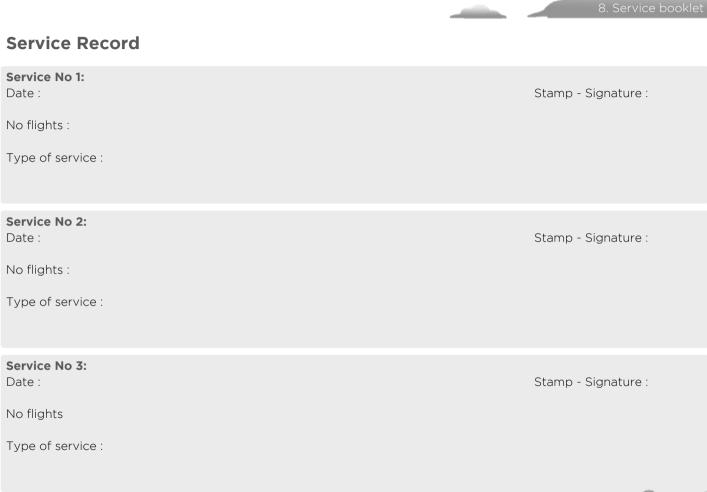
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5	7914	7832	8049		7855
6	7833	7749	7998		7632
7	7765	7687	7921		7564
8	7768	7696	7835		7688
9	7604	7564	7791		7469
10	7556	7515	7799		7423
11	7473	7442	7838		7471
12	7462	7439	7724		7645
13	7414	7406	7641		
14	7408	7409	7540		
15	7226	7216	7492		
16	7156	7199	7497		
17	7127	7183	7548		
18			7335		
19			7326		
	e check e line le				

Α		в		с		D		к	
al	818	b1	1132	c1	307	d1	1077	k1	755
a2	733	b2	1075	c2	212	d2	928	k2	423
aЗ	757	b3	763	c3	793	d3	809	k3	590
a4	793	b4	770	c4	667	d4	1114	k4	593
a5	722	b5	756	c5	724			k5	634
a6	641	b6	673	c6	292			k6	411
a7	700	b7	684	c7	215			k7	438
a8	703	b8	693	c8	851			k8	562
а9	308	b9	276	c9	874			k9	475
a10	260	b10	227	c10	260			k10	429
a11	264	b11	230	c11	302			k11	235
a12	253	b12	227	c12	248			k12	409
a13	248	b13	192	c13	165			KM1	1329
a14	242	b14	195	c14	638			KM2	957
a15	398	b15	391	c15	187			KM3	1062
a16	333	b16	374	c16	192			KM4	967
a17	255	b17	309	c17	613			KM5	619
AM1	1438	BM1	1942	c18	284			KM6	861
AM2	1374	BM2	2224	c19	275			KR1	3247
AM3	1700	BM3	1539	CMU1	669			KR2	2908
AM4	1573	BM4	1466	CM2	1350			KR3	3194
AM5	1081	BM5	970	CMU2	726			KL1	3214
AM6	997	BM6	894	CMU3	626				
AM7	1586	BM7	1440	CMU4	578				
AM8	246	BR1	4367	CMU5	374				
AM9	297	BR2	5000	CM7	472				
AR1	5310	BMU1	547	CM1	1257				
AR2	4948	BR4	6054	CM3	944				
AMU1	636	BR3	5241	CM5	728				
AR3	5052			CM6	761				
				CR1	5450				
				CR2	5513				
				CR3	5649				
				CM4	879				
								-	32

8. SERVICE BOOKLET

Test Flight Record

Model	
Size	
Serial Number	
Colour	
Date of test flight	
Company signature and stamp	



Owner Record

Pilot No 1

First name	
Family name	
Street	
City	
Post code	
Country	
Telephone	
Email:	

Owner Record

Pilot No 2

First name	
Family name	
Street	
City	
Post code	
Country	
Telephone	
Email:	

9. Closing Words

9. CLOSING WORDS

Your paraglider is an advanced, stable glider that promises many hours of safe and enjoyable flying, provided you treat it with care and always respect the potential dangers of aviation.

Please always remember that flying can be dangerous and your safety depends on you. With careful treatment your wing should last for many years. It has been tested to current international airworthiness standards, and these represent the current knowledge concerning the safety of a paraglider. However, there are still many unknowns, for example the effective lifespan of the current generation of gliders and how much material material ageing is acceptable without affecting the airworthiness. There are natural forces that can seriously threaten your safety, regardless of the quality of construction or the condition of your glider. Your security is ultimately your responsibility. We strongly recommend that you fly carefully, adapt to the weather conditions and keep your safety in mind.

Flying in a club or a school with experienced pilots is highly recommended.

We recommend that you fly with a standard harness with back protection and a reserve parachute. Always use good equipment and an approved helmet.

See you in the sky!

BGD GmbH Am Gewerbepark 11, 9413 St. Gertraud, Austria Tel: +43 (0) 4352 20477 e-mail: sales@flybgd.com www.flybgd.com

10. APPENDIX

EN line measurements

The tables below show the line measurements for the test wings, as measured by the test house during the certification procedure. These figures relate to the Bridle Check Tables in section 7.

Size M

BRUCE GOLDSMITH DESIGN

Weight of EN test sample = 5.14kg

	Α	в	с	D	к
1	7518	7398	7611	7722	7928
2	7438	7350	7525	7581	7615
3	7394	7307	7450	7551	7428
4	7430	7313	7413	7518	7428
5	7322	7258	7465		7258
6	7248	7178	7411		7051
7	7190	7117	7342		6986
8	7190	7125	7264		7096
9	7044	7006	7226		6949
10	6999	6959	7232		6898
11	6928	6888	7270		6954
12	6918	6886	7142		7110
13	6871	6857	7066		
14	6860	6858	6991		
15	6686	6677	6940		
16	6625	6663	6948		
17	6597	6646	6995		
18			6786		
19			6777		

Size ML

Weight of EN test sample = 5.32kg

	Α	в	с	D	к
1	7763	7641	7863	7961	8239
2	7683	7584	7771	7818	7919
3	7642	7554	7691	7793	7716
4	7675	7559	7657	7752	7718
5	7575	7505	7710		7531
6	7499	7423	7656		7317
7	7437	7363	7587		7254
8	7438	7369	7501		7374
9	7286	7243	7468		7228
10	7238	7197	7471		7184
11	7163	7125	7509		7231
12	7153	7123	7402		7396
13	7111	7096	7326		
14	7105	7095	7226		
15	6917	6911	7179		
16	6857	6894	7186		
17	6828	6881	7229		
18			7022		
19			7014		

Size L

Weight of EN test sample = 5.60kg

	Α	в	с	D	к
1	8122	7978	8209	8315	8582
2	8031	7923	8116	8165	8254
3	7993	7889	8032	8138	8052
4	8030	7898	7996	8098	8054
5	7919	7838	8056		7862
6	7836	7755	7993		7639
7	7773	7694	7920		7570
8	7777	7703	7835		7693
9	7607	7566	7797		7471
10	7562	7519	7805		7422
11	7478	7444	7844		7468
12	7466	7441	7730		7637
13	7418	7410	7648		
14	7414	7412	7548		
15	7225	7219	7498		
16	7158	7198	7503		
17	7129	7182	7552		
18			7335		
19			7326		

A REAL PROPERTY.