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THANK YOU

hank you for choosing to fly Ozone. As a team of free flying enthusiasts, competitors and adventurers, Ozone's mission is to build agile paragliders of the highest quality with cutting edge designs, performance and maximum security.

Confidence and belief in your paraglider is a far greater asset than any small gains in performance - ask any of the Ozone pilots on your local hills, or those who have taken our gliders on ground-breaking adventures or stood on podiums around the world. All our research and development is concentrated on creating the best handling/performance characteristics possible with optimum security. Our development team is based in the south of France. This area - which includes the sites of Gourdon, Monaco and Col de Bleyne - guarantees us more than 300 flyable days per year, this is a great asset in the development of the Ozone range.

As pilots we fully understand just how big an investment a new paraglider is. We know that quality and value for money are essential considerations when choosing a new wing, so to keep costs low and quality high we manufacture all of our products in our own production facility. During production our wings undergo numerous rigorous quality control checks that are fully traceable, this way we can guarantee that all of our paragliders meet the same high standards.

It is essential that you read this manual before flying your wing for the first time. The manual will help you get the most out of your new wing, it details information about the design, tips and advice on how best to use it and how to care for your wing to ensure it has a long life and retains a high resale value. For the latest updates, including all technical data please refer to the online version. This can be found on the product's page on at www.flyozone.com

If you need any further information about any of our products please check flyozone.com or contact your local dealer, school or any of us here at Ozone.

Safe Flying! Team Ozone

EN v1.0 May 2017



WARNING

- Paragliding is a potentially dangerous sport that can cause serious injury including bodily harm, paralysis
 and death. Flying an Ozone paraglider is undertaken with the full knowledge that paragliding involves
 such risks.
- As the owner of an Ozone paraglider you take exclusive responsibility for all risks associated with its use.
 Inappropriate use and or abuse of your equipment will increase these risks.
- Any liability claims resulting from use of this product towards the manufacturer, distributor or dealers are excluded.
- Be prepared to practice as much as you can especially ground handling, as this is a critical aspect of paragliding. Poor control while on the ground is one of the most common causes of accidents.
- Be ready to continue your learning by attending advanced courses to follow the evolution of our sport, as techniques and materials keep improving.
- Use only certified paragliders, harnesses with protector and reserve parachutes that are free from
 modification, and use them only within their certified weight ranges. Please remember that flying a glider
 outside its certified configuration may jeopardise any insurance (e.g. liability, life etc) you have. It is your
 responsibility as the pilot to verify your insurance cover.
- Make sure you complete a thorough daily and preflight inspection of all of your equipment. Never attempt flying with unsuitable or damaged equipment.
- Always wear a helmet, gloves and boots.
- All pilots should have the appropriate level of license for their respective country and third party insurance.
- Make sure that you are physically and mentally healthy before flying.
- Choose the correct wing, harness and conditions for your level of experience.
- Pay special attention to the terrain you will be flying and the weather conditions before you launch. If you
 are unsure do not fly, and always add a large safety margin to all your decisions.
- NEVER fly your glider in rain, snow, strong wind, turbulent weather conditions or clouds.
- If you use good, safe judgment you will enjoy many years of paragliding.

Remember, PLEASURE is the reason for our sport

TEAM OZONE

Everyone at Ozone continues to be driven by our passion for flying, our love of adventure and our quest to see Ozone's paraglider development create better, safer and more versatile paragliders.

The design team consists of David Dagault, Luc Armant, Fred Pieri, Russell Ogden, and Honorin Hamard.

Dav has a wealth of experience in competition flying, XC, XAlps and paraglider design. Luc, a dedicated XC and competition addict has a background in naval architecture. Fred, our resident geek is a mathematician, mechanical engineer and vol Biv specialist. Russ is a competition pilot and test pilot with 1000s of hours testing experience. Hono has been flying since he was 13, he is a naturally talented pilot that has already become world champion. Between them, they bring a wealth of knowledge, ideas and experience and work closely together in the design and testing process.

Mike Cavanagh is the boss and multiple winner of the UK XC league. When he's not out flying he generally keeps control of the mayhem. Promotion and team pilots are organised by BASE jumping legend and mini wing specialist Matt Gerdes. He works closely with graphic designer Loren Cox. Loren is a keen pilot from Salt Lake city, USA.

Back in the office Karine Marconi, Chloe Vila and Isabelle Martinez run the show. These wonderful ladies look after the ordering system, the dealers, the design team and the general day to day running of the company - without them it would be chaos.

Our manufacturing facility in Vietnam is headed up by Dr Dave Pilkington who works relentlessly manufacturing gliders and producing prototypes as well as researching materials and manufacturing processes for our future products. He is backed up by a superb team managed by Khanh and Phong with over 700 production staff.

YOUR ENZO 3

The latest edition of the most successful competition wing in the history of paragliding brings a new level of glide performance to the world's best pilots. The Enzo 3's next generation profile has evolved over two years of R&D. It offers improved solidity, spanwise cohesion, comfort, glide performance, and a significantly higher top speed compared to the Enzo 2.

The Enzo 3 retains many features of its predecessor, including the cell count, planform, and patented OZONE SharkNose concept but with an updated ultra-low-drag line plan. Most of all, our philosophy of True Performance remains a core tenet of this wing. Its performance in active air impressed the OZONE R&D Team during development; throughout the process of testing in the Southern Alps, and auditing competitions, the Enzo 3 has proven to be a significant step forward from the Enzo 2.

A blend of standard and light cloths optimise performance and durability. A 30D leading edge section is backed by the extensive use of Porcher 27g cloth. This combination now has several years of proven performance both in terms of longevity and sail characteristics.

The Enzo 3 is certified CCC and available in 6 sizes suitable for flying weights from 80kgs to 130kgs. It is a high performance wing designed for the world's best pilots and, like the Enzo 2, requires a high level of piloting skills. If you are unsure, then we recommend the Zeno.

Rucksack

Your wing is supplied with a specially designed bag that is light in weight and comfortable. It features a padded hip belt, adjustable ergonomic shoulder straps and extra pockets to store keys, accessories and all those extra bits. Its large volume allows you to store all of your equipment whilst distributing the weight for comfortable hiking.

Brake Lines

The brake line lengths have been set carefully during testing. We feel it is better to have slightly long brake lines and to fly with a wrap (one turn of line around the hand). However, if you do choose to adjust their length please keep in mind the following:

- Ensure both main brake lines are of equal length.
- If a brake handle has been removed, check that its line is routed through the pulley when it is replaced.
- When the brakes are fully released in flight, the brake lines should be slack. There must be a substantial bow in them to guarantee no deformation of the trailing edge when accelerated.
- There must be a minimum of 10cm of free play before the brakes begin to deform the trailing edge. This
 prevents the trailing edge from being deformed when using the speed system.

Risers

The Enzo 3 has been designed with 2 risers per side. The A riser is covered with coloured webbing, to allow for easy identification.

The A risers are split into two, the smaller riser - holding only the outermost A line - is the 'Baby A' and has been designed this way to make applying big ears simple.

They also feature ergonomic wooden handles for comfortable B riser control and A-B limiters set to 140mm as defined in CCC 2016 revision 1.

The risers do not feature trimmers.

IMPORTANT

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 (B-risers) for directional control.





Total Weight in flight

Each size has been CCC certified with a defined maximum weight and a recommended minimum weight. We strongly recommend that you respect these weight ranges. If you want better speed, precise handling, and generally fly in mountains and/or in strong conditions, you should chose to fly in the middle to top part of the weight range. If you want a better sink rate, or if you generally fly in flat lands and/or in weak conditions, you should choose to fly nearer the middle part of the weight range. Remember, you can always add ballast when conditions are stronger.

For competition flying it is generally better to be in the upper part of the weight range.

Limitations

The Enzo 3 has been designed as a high performance solo XC/competition wing and is for experienced world class pilots only. It is not suitable for beginner or intermediate pilots, aerobatics, training or tandem flights. The Enzo 3 has the potential to for aggressive behaviour in demanding situations, to be flown safely it requires a very high level of piloting skills. Pilots are expected to have an in-depth knowledge of SIV with recent, direct experience of high aspect ratio wings. We also expect the pilot to have the necessary active flying skills and quick reaction times to keep a high aspect ratio wing open in turbulent air.

The Enzo 3 was certified with the use of collapse lines and therefore collapses should not be induced without them. We strongly recommend expert tuition over water with all the necessary safety precautions in place. Ensure that you fully understand the correct and safe use of this equipment before attempting SIV.

Towing

The Enzo 3 may be tow-launched. It is the pilot's responsibility to use suitable harness attachments and release mechanisms and to ensure that they are correctly trained on the equipment and system employed. All tow pilots should be qualified to tow, use a qualified tow operator with proper, certified equipment, and make sure all towing regulations are observed. When towing you must be certain that the paraglider is completely over your head before you start. In each case, the maximum tow force needs to correspond to the all up weight of the pilot.

PREPARATION .

Accelerator System

To set up the accelerator system, first route the lines supplied with the speed system through the harness. Make sure this is done correctly and that the lines pass through all of the pulleys (check your harness manual for instructions). Attach the speed system lines to the accelerator system on the risers with the Brummel hooks. A basic set-up can be performed on the ground: ask a friend to pull the risers tight into their in-flight position whilst you sit in the harness on the ground. Now adjust the lengths of the lines so that the main bar sits just beneath your seat. You should be able to hook your heel in to the lower loop of the accelerator. There must be enough slack in the speed bar to ensure the front risers are not pulled down in normal trim speed flight, but not so long that it is impossible to use the full speed range of the glider. Once set up, test the full range of the accelerator in calm flying conditions and ensure that both risers are pulled evenly during operation. Fine-tuning can be completed when you are back on the ground.

The blue tag on the riser speed system line indicates 10cm of travel, this is the speed at which the wing has been certified. Only push beyond this position when the air is calm and it is safe to do so.

Harness

It is important to set up your harness correctly before flying the wing. Make sure to spend time adjusting your harness's different settings until you are completely comfortable. Each size has been flight tested in a seated harness with a chest strap width of 45cm. The chest strap should be set between 44cm and 48cm (between the centre of the hang points) according to your taste.

Reserve Parachute

We recommend that you fly your Enzo 3 with two reserve parachutes suitable for your maximum all up flying weight. These parachutes should be accessible with both the left and right hands.

Wing

To prepare the wing, lay it out on the top surface and perform a thorough daily check. You should inspect the top and bottom surfaces for any rips and tears or any other obvious signs of damage. Lay out the lines one side at a time, hold up the risers and starting with the brake lines, pull all lines clear. Repeat with the C (uppers), B and A lines, laying the checked lines on top of the previous set, and making sure no lines are

IMPORTANT

The blue tag on the riser speed system line indicates 10cm of travel, this is the speed at which the wing has been certified. Only push beyond this position when the air is calm and it is safe to do so.



tangled, knotted or snagged. Mirror the process on the other side and then inspect the lines for any visual damage. Then inspect the risers for any signs of obvious damage.

To familiarise yourself with the glider it is a good idea to perform practice inflations and small flights on a training hill. This will enable you to set up your equipment correctly.

Take-off checklist:

- Check reserve parachute pin is in and handle secure
- · Helmet on and fastened
- All harness buckles closed double check the leg-loops again
- Karabiners and maillons done up tight
- Holding the A risers and your brake handles correctly without twists
- · Leading edge open
- Aligned in the middle of the wing and directly into wind
- · Airspace and visibility clear

BASIC FLIGHT TECHNIQUES

Launching

Your Enzo 3 will launch with either the forward or reverse technique. The wing should be laid out in a pronounced arc, with the centre of the wing higher than the tips.

Forward Launch - Nil to Light winds

When the wind is favourable, whilst gently holding the central A risers (A1) or better still, just the central A1 line (blue sock) - there is no need to take the A2 risers - move forward positively, your lines should become tight within one or two steps and the Enzo 3 will immediately start to inflate. You should maintain a constant pressure on the risers until the wing is overhead. Do not pull down or push the risers forward excessively, or the leading edge will deform and possibly collapse making taking-off more difficult and potentially dangerous. Move smoothly throughout the entire launch, there is no need to rush or snatch at it. You should have plenty of time to look up and check your canopy before committing yourself. Once the wing comes overhead, it may require a brake input from stopping it overflying you. Once you are happy that the Enzo 3 is inflated correctly, accelerate smoothly off the launch.

Reverse Launch - Light to Strong Winds

Lay out your wing as you would for the forward launch. However, this time turn to face it, passing one entire set of risers over your head as you turn. Now you can inflate the glider with your body weight and the central A1-risers. Once the wing is overhead, release the risers, brake if necessary, turn and launch. In stronger winds, be prepared to take a few steps towards the glider whilst braking as it inflates. This will take some of the energy out of the glider and it will be less likely to overfly you or inadvertently pull you off the ground. The reverse-launch technique can be used in surprisingly light winds too.

Turning

The Enzo 3 is very responsive to inputs. To familiarise yourself with the new wing your first turns should be gradual and progressive, application of too much brake will cause excessive roll and dive in the turn, or may cause a spin. To make efficient and coordinated turns, your first input for directional change should be weight-shift, followed by the smooth application of the brake until the desired bank angle is achieved. To regulate the speed and radius of the turn, coordinate your weight shift and use the outer brake or outer B riser.

IMPORTANT

Never take off with a glider that is not fully inflated or if you are not in control of the pitch/roll of your wing.

IMPORTANT

Always check the airspace is clear before initiating a turn.

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Speed System

For better penetration in headwinds and improved glide performance in sinking air, crosswinds or headwinds, you should fly faster than trim speed by using the accelerator system. Using up to half bar does not degrade the glide angle or stability significantly and will improve your flying performance. To accelerate, first make sure that you have no brake applied (remove any wraps from the brakes) and take hold of the B risers, we recommend to use the wooden handles. Apply the speed bar smoothly and progressively to avoid sudden changes of pitch/angle of attack (AofA) and to allow the wing to accelerate efficiently. Maintain pressure on the B risers and use active control with a combination of the speed system and the B risers through turbulent air. Only release pressure from the B risers when the air is smooth.

The blue tag on the riser speed system line indicates 10cm of travel, this is the speed at which the wing has been certified. At full speed the Enzo 3 is fast but has less inherent stability; only use maximum speed in very calm air conditions and always fly actively with the B risers/speed bar.

Active Flying

To reduce the frequency of collapses in turbulent conditions, it is essential to use active flying. The aim of active flying is to control the pitch and internal pressure of the wing. This can be done with the brakes or the B risers (see below), but in very turbulent air, we recommend to always use the brakes.

In turbulent air, fly with the brakes applied (approx. 20cm), this will give you the necessary feedback which is vital to keep the wing open. It is also important to look at your wing as this gives a direct indication of its internal pressure and likelihood of collapse. Inputs can be symmetric or asymmetric; you may have to apply both brakes or just one to maintain equal pressure across the span/chord of the wing. Avoid flying with continuous amounts of deep brake in rough air as you could inadvertently stall the wing. Always consider your airspeed.

Active B Riser Control

When gliding at trim speed or in accelerated flight, we recommend to pilot the wing with the B risers. This gives an improved feel and control over the wing enabling you to fly actively without using the brakes (which causes drag and pitch movements). The direct feel allows you to stop collapses before they happen and maintain higher speeds and higher levels of efficiency.

IMPORTANT

Regulate your speed depending on the local airmass. If it becomes turbulent, release the speed system and fly actively with your brakes or B risers.

IMPORTANT

No pilot and no glider are immune to collapses, however active flying reduces the tendency to collapse. When the conditions are turbulent, be more active and anticipate the movements of the wing. Always be aware of your altitude and do not over-react.

To fly with the B risers, keep hold of your brake handles (remove any wraps) and either rest your hands on or take hold of the wooden handles located on the B risers. Now you have direct control of the AofA; by pulling the B risers down or rearwards you increase the AofA, releasing pressure reduces AofA and returns the wing to trim speed. With B riser control you can fly actively through turbulence, collapses can be stopped or at least reduced with correct inputs due to the sudden increase in AofA. If you feel the nose of the wing lose internal pressure, or you see a crease appear between the A and B line attachment points on the sail you can quickly input the B risers to stop the collapse occurring. The amount of pressure and size of the input is dependent on the amount of turbulence, or loss of pressure, but always avoid long deep inputs to avoid inducing large pitch movements or inadvertent stalls.

During accelerated flight, the added control of active B riser flying further increases the efficiency and stability of the wing. Whilst accelerated the act of pulling the B risers is exactly the same as releasing the speed bar. This translates to direct control of speed, AofA, and internal pressure in your hands. Coupled with active speed bar control, adjustments can be made with the B risers to optimise your speed and internal pressure through turbulence helping you to maintain a higher average speed whilst reducing the likelihood of unexpected collapses. When pushing the bar, if the air becomes slightly turbulent apply some pressure to the B risers, when the air becomes less turbulent again you can reduce (or release) pressure on the B risers for extra speed. Flying fast and efficiently in normal air requires constant attention to the wing, it is necessary to combine B riser inputs and speed bar adjustments to keep the wing open and pressured.

This control method is suitable for gliding in good 'normal' air without huge levels of turbulence, it does not replace proper active flying with the brakes in strong turbulent conditions. If you are unsure about the air return the glider to trim speed, release the B risers and fly the glider actively with the brakes.

Big Ears

To pull big ears, keep hold of your brake handles and take the outermost A-line (AR3) on each side, then pull out and down (preferably one at a time) until the wingtips fold under. The size of the big ears can be adjusted by pulling more line, or reaching higher up the line. Once the big ears are engaged you can further increase the sink rate by using the accelerator system. For directional control while using the Big Ears, use weight shift.

IMPORTANT

Whilst accelerated DO NOT use your brakes to fly actively in turbulent air, doing so will actually make the wing more prone to collapse.

IMPORTANT

Always keep hold of your brakes. Do not fly in turbulent conditions

DO NOT perform spiral dives with the Big Ears engaged.

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To reopen the ears, release both A lines at the same time. To aid reinflation, brake positively one side at a time until the tips open. Avoid deep symmetric applications of the brake as this could accidently induce a stall.

Whilst it is possible to enter a spiral dive whilst holding in Big Ears, the high forces applied to the lower lines could exceed the breaking strain of the lines leading to equipment failure! We strongly recommend against doing this.

B-Line Stall

Traditional B-line stalls are not possible with the Enzo 3. Pulling the B lines firmly will result in a full stall. Do not do it.

Spiral Dives

If you turn your glider in a series of tightening 360's it will enter a spiral dive. This will result in rapid height loss. To initiate a spiral, look and lean in to the direction you want to turn, then smoothly pull down on the inside brake. The Enzo 3 will first turn almost 360 degrees before it drops into the spiral. Once in the spiral you should re-centre your weight shift and apply a little outside brake to keep the outer wing tip pressured and inflated.

Safe descent rates of more than 8m/s (1600 ft/min approx.) are possible in a spiral dive, but due to the long lines of the Enzo 3, very high decent spiral dives with high speeds and G-forces can be very disorientating and could lead to a loss of vision and even black out. Always pay particular attention to your altitude. To exit the spiral dive, move your weight shift to the outside whilst smoothly releasing the inside brake. As the Enzo 3 decelerates allow it to continue to turn until enough energy is lost to return to level flight without an excessive climb and surge.

Under certain conditions the Enzo 3 may show a tendency to remain stable in a spiral dive, several parameters will influence its behaviour such as: a tight chest strap settings; total weight in flight outside of the certified weight range; or being in a very deep spiral with a very high sink rate >14m/s. You should always be prepared to pilot the wing out of a spiral dive with opposite weight shift and a smooth application of the outside brake, the rotational speed will start to reduce and the glider will start to pull out of the spiral. Recovering from a spiral with hard opposite input will result in an aggressive climb and surge.

DO NOT perform B line stalls.

IMPORTANT

Always be prepared to pilot the wing out of a spiral dive. Use opposite weight shift and apply enough outside brake to stop the wing from spiralling.

Landing

- Always set up for your landing early, give yourself plenty of options and a safe margin for error.
- Once below 30 metres avoid turning tightly as the glider will have to dive to accelerate back to normal flight. If you are at low altitude, or if you hit sink, this could mean you hit the ground harder than necessary. Always land heading into wind!
- Lean forward out of your harness before the actual landing (especially if it's turbulent), with your weight leaning forward against the chest strap.
- Fly hands up trim speed for your final descent until you are around 1 metre above the ground (in windy or turbulent conditions you must fly the glider actively all the way). Apply the brakes slowly and progressively to slow the glider down until groundspeed has been reduced to a minimum and you are able to step onto the ground.
- In light winds/zero wind you need a strong, long and progressive flare to bleed off all your excess ground speed. In strong winds your forward speed is already low so you are flaring only to soften the landing. A strong flare may result in the glider climbing upwards and backwards quickly, leaving you in a vulnerable position.
- Choose the appropriate approach style in function of the landing area and the conditions.
- In strong winds you need to turn towards the glider the second your feet touch the ground. Once facing
 the wing pull smoothly and symmetrically down on the brakes to stall the wing. If the glider pulls you,
 run toward it.
- If the wind is very strong, and you feel you might be dragged, or lifted again, stall the glider with the B risers. This stalls the wing in a very quick and controllable way and will drag you less than if you use the brakes.

INCIDENTS IN FLIGHT

Deflations

Due to the flexible form of a paraglider, turbulence may cause a portion of the wing to collapse. This can be anything from a small 30% (asymmetric) collapse to a complete (symmetric) collapse.

If you have a collapse, the first thing to do is to control your direction. You should fly away from the ground or obstacles and other pilots. Asymmetric collapses should be controlled by weight shifting away from the collapsed side and applying enough brake to control your direction. This action alone will often be enough for a full recovery of the wing, however if the wing remains closed positive brake input is required on the deflated side to encourage reinflation.

Once a glider is deflated it is effectively a smaller wing, so the wing loading and stall speed are higher. This means the glider will spin or stall with less brake input than normal. In your efforts to stop the glider turning towards the collapsed side you must be very careful to not stall the flying side. If you are unable to stop the glider turning without exceeding the stall point then allow the glider to turn whilst you reinflate the collapse.

If you have a deflation which does not spontaneously reinflate, make deep hard inputs on the deflated side. This pumping action should take about 1-2 seconds per pump, pumping too short and fast will not reinflate the wing and pumping too slow might take the glider close to, or beyond, the stall point.

Symmetrical collapses normally reinflate without pilot input, however 15 to 20cm of brake applied quickly and symmetrically will reduce the size if the collapse and speed up the recovery process. After a symmetric collapse always consider your airspeed. Make sure the glider is not in parachutal stall before making any further inputs.

If the wing collapses in accelerated flight, immediately release the accelerator and manage the collapse using the same methods described above.

IMPORTANT

A bad preparation on launch, aerobatic flying, flying a wing of too high a level or in conditions too strong for your ability are the main causes of cravats.

Cravats

If the tip of your wing gets stuck in the lines, this is called a cravat. Due to the large amount of drag, cravats can turn your wing into a spiral dive very quickly, this can be disorientating and difficult to control if allowed to develop. To recover from a cravat immediately anticipate the movement of the wing, first stabilise the direction of your wing with outside brake and weight shift. Once you have control of the rotation and sink rate apply strong deep pumps of the brake on the cravated side whilst weight shifting away from the cravated side. It is important to lean away from the cravat otherwise you risk spinning or deepening the spiral. The aim is to empty the air out of the wing tip whilst it is unloaded. Correctly done, this action will clear the cravat. Smaller wing tip cravats can be cleared by pulling the stabilo line but it is normally more efficient to clear them with a deep hard input.

If it is a very large cravat and the above options have not worked then a stabilised parachutal or full stall are other options. This should not be attempted unless you know what you are doing and have a large amount of altitude. Remember if the rotation is accelerating and you are unable to stabilise the wing or control the decent rate, you should throw your reserve parachute whilst you still have enough altitude.

Deep Stall / Parachutal Stall

It is possible for gliders to enter a state of parachutal stall. This can be caused by several situations including; flying too slowly; too much B riser input; flying the glider when wet; or after a front/symmetric deflation. The glider often looks as though it has recovered properly but carries on descending vertically without full forward motion. This situation is called 'deep stall' or 'parachutal stall'.

Your first reaction should be to fully raise both hands. This normally allows the glider to return to normal flight but If nothing happens after a few seconds, apply the speed bar to encourage the wing to regain normal flight. Ensure the glider has returned to normal flight (check your airspeed) before using the brakes again.

Do not fly in rain or when the wing is wet, doing so significantly increases the likelihood of parachutal stalls occurring. To reduce the chance of stalling in rain avoid using deep brake movements or Big Ears. Find a safe area to land and using the speed bar, maintain a good airspeed at all times.

IMPORTANT

Only a few cms of input from your brakes can maintain your wing in the stall. Always fully release your brakes to recover normal flight.

IMPORTANT

NEVER fly in the rain or with a wet glider.

SIV and Collapse lines

The Enzo 3 was tested and certified with the use of collapse lines, therefore if you wish to induce collapses during SIV training collapse lines must first be installed correctly. Ozone would like to remind you that this wing is not designed for learning SIV manoeuvres and should only be attempted under the supervision of an expert instructor, over water and with all the necessary safety precautions in place. If you want to learn how to do SIV then do so on a different wing. Only attempt it with this wing if you have previous SIV experience with a high aspect ratio wing, such as the M6. Ensure that you fully understand the correct and safe use of this equipment before attempting SIV.

Collapse lines must be obtained from a 3rd party service centre and the collapse tabs must be sewn in the correct position on the appropriate profiles. Contact the design team for details.

IMPORTANT

Only attempt SIV with this wing if you have previous SIV experience with a high aspect ratio wing, such as the M6.

CARE AND MAINTENANCE

Packing

To prolong the life of your wing and to keep the plastic reinforcements in the best possible condition it is very important to pack the wing carefully.

Ozone recommends to use the concertina packing method exactly as shown so that all of the cells rest alongside each other and the plastic reinforcements are not unnecessarily bent. It is also good practice to use the supplied foam Folding Pillow, this reduces the angle of the leading edge fold and helps preserve the plastic reinforcements. The folding pillow can be compressed with the strap and carried in your harness. Also, using the Ozone Saucisse pack will help preserve the life of the wing and aid with the speed and ease of packing.

Step 1. Lay the mushroomed wing on the ground or on the Saucisse pack if you are using one. It is best to start from the mushroomed position as this reduces the dragging of the leading edge across the ground.



Step 2. Group leading edge (LE) plastic reinforcements with the A tabs roughly aligned. Make sure the plastic reinforcements lay side by side. Note the glider is NOT folded in half; it is folded as a complete concertina from wing











Step 3. Group together the middle and the trailing edge (TE) of the wing by sorting the concertina folds near the B and C

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Step 4. Once the LE and TE of the wing have been sorted, turn the whole wing on its side.

If using a Saucisse pack go to Step 7.







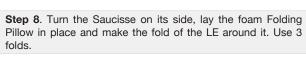
Step 5. Strap the Folding Pillow below the LE - at the point of the first fold. The pillow reduces the angle of the fold and helps preserve the plastics. Next fold the TE over the LE being careful to not fold with tight angles.

Step 6. Now place the folded wing into the stuff sack.



Step 7. If using a Saucisse, with the wing laid on its side carefully close the zip (or clips) without trapping any material.







IMPORTANT: Do NOT lay the wing flat on the ground before packing the glider, this will cause abrasion damage to the top surface as you pull the glider towards the middle. ALWAYS pack from a mushroom or lift the wing off the ground when gathering the wing and grouping the leading edge.



IMPORTANT: Do not fold the glider in the centre, you will bend the plastics, instead pack the wing with a full concertina method from tip to tip before packing into the stuff sac.





Caring Tips

- DO NOT drag your wing along the ground to another take-off position this damages the sailcloth. Lift it up and carry it.
- DO NOT try to open your wing in strong winds without untangling the lines first this puts unnecessary strain on the lines.
- DO NOT walk on the wing or lines.
- DO NOT repeatedly inflate the glider and then allow it to crash back down. Try to keep this movement as smooth as possible by moving towards the glider as it comes down.
- DO NOT slam your glider down on the ground leading edge first! This impact puts great strain on the wing and stitching and can even explode cells.
- FLYING in salty air, in areas with abrasive surfaces (sand, rocks etc.) and ground handling in strong winds will accelerate the aging process.
- DO NOT fly in the rain or expose the wing to moisture. We recommend that all pilots take measures to keep their equipment as dry as possible. We do not recommend intentional water landings or laying out wings on wet launches. Thoroughly wetting the glider fabric may cause colour change, dye transfer, a reduction in longevity, and possibly change the dimensions of the fabric.
- DO NOT expose the wing to unnecessary UV. Pack away once you have finished flying. Do not leave it sitting in the sun.
- If you fly with a wrap, you should regularly undo the twisting that appears on the main brake lines. By twisting the line become shorter and you can end up with a constant tension on the trailing edge (which can lead to problem on launch, stalling, glider not flying symmetrically, ...)
- Be careful when groundhandling to not saw the brake lines against the risers or main lines. The abrasion caused by a sawing motion can damage the main lines and lead to premature ageing of the risers. If you notice any signs of abrasion, especially to the lines, make sure you get the wing professionally serviced and importantly modify your groundhandling technique to stop any further damage.
- Your Ozone wing has an opening closed using Velcro on the trailing edge of the tip called the 'Butt hole'.
 This has been designed to easily empty all the things which have been accumulating in your wing (sand, leaves, rocks, mobile phones etc).
- It is recommended that you regularly CHECK your wing, especially after a heavy period of use, after an incident or after a long period of storage.

Storage and Transport

Always store all your flying equipment in a cool, dry room protected from direct heat and sunlight. Your wing must be completely dry before being packed away, moisture, heat and humidity are the worst elements for damaging the materials and plastics. Never store a damp glider in the car under direct sunlight for example.

If you land in salt water, you must first rinse it thoroughly with clean fresh water. Dry the wing completely out of the sun, in the wind. Never use a hair dryer or expose a wet wing to direct sunlight.

Take care that no insects get packed away with the wing. They may eat the cloth and make holes in a bid to escape. They can also leave acidic deposits if they die and decompose.

Transport the wing in the supplied bags and keep away from oils, paints, chemicals, detergents etc.

Cleaning

Any kind of wiping/scratching can damage the coating of the cloth. We recommend to not clean the wing, but if you do have to, use a soft cloth dampened with a small amount of water and use gentle movements little by little across the surface.

Wing Repairs

Always let a registered dealer, professional repair centre or the manufacturer carry out any major or complex repairs, especially those near seam margins.

If you damage the sail:

If the rip is small and in the middle of a panel however you can fix it yourself. You'll find all the materials in the repair kit you need. The fabric can be simply mended with the sticky rip stop/spinnaker tape. When cutting out the patches allow ample overlap of the tear and make sure both sides are different sizes. Make sure to round off each corner of the patches.

You can find more information about repairing your wing on the Ozone website, including step by step instructions with pictures.

IMPORTANT

Never pack away or store your glider wet.

IMPORTANT

Never leave your glider in a hot place.

IMPORTANT

Never use detergent or chemical cleaners.

If you damage a line:

Any line that is visually damaged MUST be replaced immediately. Do not fly with damaged lines. Replacement lines can be ordered them from your local Ozone dealer or directly from our website http://www.flyozone.com/paragliders/en/shop/lines.php. Alternatively, use a reputable paragliding service centre to make the replacement lines.

It is important that replacement lines are made from the correct materials and diameters. You should check lengths against their counterpart on the other side of the wing to make ensure symmetry. In fact it is wise to always replace both sides to ensure symmetry. Once the lines have been replaced, inflate and carefully check the wing before flying.

Maintenance Checks

Your wing, like a car, should be technically checked to ensure proper airworthiness. Your wing should be checked by a qualified professional for the first time after 24 months, or after 100 hours. However, if you are a frequent flyer (more than 100 hrs per year), then we recommend, that you get your glider checked annually. The checker should inform you about the condition of your glider and if some parts will need to be checked or changed before the next normal service check period.

The sail and the lines do not age in the same way or at the same rate; it is possible that you may have to change part or all of the lines during the wing's life. For this reason it is important to do regular inspections so that you know the exact condition of all of the components of your glider. We recommend that inspections are carried out by a qualified professional.

You alone are responsible for your flying kit and your safety depends on it. Take care of your equipment and have it regularly inspected. Changes in inflation/groundhandling/flying behaviour indicates the gliders aging, if you notice any changes you should have the wing checked before flying again. These are the basic elements of the check up (full details and permissible figures can be found on our website): Porosity is measured with a porosity meter, the time taken by a certain volume of air to go through a certain surface of the cloth. The time in seconds is the result. A measurement is done in a several places on the top surface along the span of the glider behind the leading edge.

IMPORTANT

Take care of your glider and make sure you have it checked and serviced according to the schedule.

The tearing resistance of the cloth - A non-destructive test following the TS-108 standard which specifies minimum tear strength for sky diving canopies should be made using a Bettsometer. (B.M.A.A. Approved Patent No. GB 2270768 Clive Betts Sails).

Strength of the lines - An upper, middle and lower A line, along with a lower B line should be tested for strength. Each line is tested to breaking point and the value recorded. The minimum value is 14 G for all A+B lines, calculated from the maximum certified flying weight of the glider. The added minimum strength for the middle lines and for the top lines should be the same. If the breaking strength is too close to the minimum value calculated, the professional should give a period after which you will have to test the strength of the lines again.

Lengths of the lines - The overall length (riser lines + mid lines + upper lines) has to be checked under 5Kgs of tension. The difference between the measured length and the original length should not exceed +/- 10mm. The changes that could appear are a slight shrink on the B's and/or a slight stretch on the A's. The consequences of these changes can include a slower trim speed, difficult inflation etc.

Risers - Visual inspection for signs of wear or abrasion. Differences to manual lengths should not exceed +/-5mm.

Canopy check - A full visual check should be carried out: All the components of the wing (stitching, ribs, diagonals, lines, tabs, ...) should be checked for signs of deterioration.

Finally, a **flight test** to confirm that the wing behaves normally should be carried out by a professional.

Modifications

Your Ozone Enzo 3 has been carefully designed and trimmed to give the optimum balance of performance, handling and safety. Any modification results in the glider losing its certification and will also make the wing more difficult and dangerous to fly. For these reasons, we strongly recommend that you do not modify your glider in any way.



OZONE QUALITY GUARANTEE

At Ozone we take the quality of our products very seriously, all our gliders are made to the highest standards in our own manufacturing facility. Every glider manufactured goes through a stringent series of quality control procedures and all the components used to build your glider are traceable. We always welcome customer feedback and are committed to customer service. Ozone guarantees all of its products against manufacturer's defects or faults. Ozone will repair or replace any defective product free of charge. Ozone and its distributors provide the highest quality service and repair, any damage to products due to wear and tear will be repaired at a reasonable charge.

If you are unable to contact your dealer then you can contact us directly at info@flyozone.com.

Summary

Safety is paramount in our sport. To be safe, we must be trained, practised and alert to the dangers around us. To achieve this we must fly as regularly as we can, ground handle as much as possible and take a continuous interest in the weather. If you are lacking in any of these areas you will be exposing yourself to more danger than is necessary.

Every year many pilots get hurt launching; don't be one of them. Launching is the time that you are most exposed to danger so practice it lots. Some launch sites are small and difficult and conditions aren't always perfect. If you're good at ground handling you'll be able to confidently and safely launch whilst others struggle...practice as much as you can. You'll be less likely to get hurt and more likely to have a great day's flying.

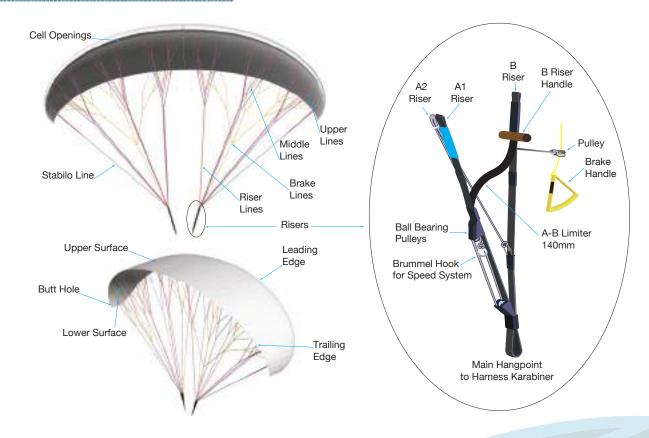
Respect the environment and look after your flying sites.

If you need to dispose the wing, do so in an environmentally responsible manner. Do not dispose of it with the normal household waste.

Finally, RESPECT the weather, it has more power than you can ever imagine. Understand what conditions are right for your level of flying and stay within that window.

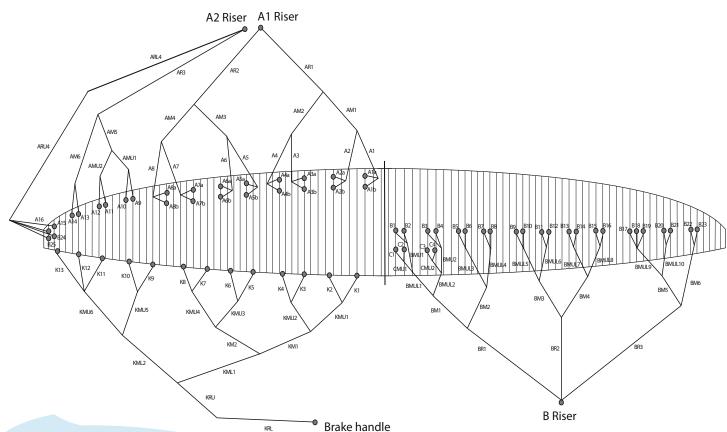
Happy flying & enjoy your Enzo 3. Team Ozone

DESCRIPTIVE DRAWINGS



LINE DIAGRAM

Individual and linked line lengths can be found online.



MATERIALS _

All Ozone gliders are made from the highest quality materials available.

Cloth Countries

Upper Surface

Dominico DOKDO 30D MF / Porcher 7000 E71

Lower Surface

Porcher 7000 E71

Internal Ribs

Porcher 9017 E29 / Porcher 7000 E91

PLastic Reinforcements

2.5/1.8/1.4/1.0mm Plastic pipe

Main Line Set

Riser Lines

Edelrid 8000U 360/190/130/050kg - Liros DSL 140kg

Middle Lines

Edelrid 8000U 190/130/090/070/050/025kg

Upper Lines

Edelrid 8000U 130/090/070/050/025kg

Risers and hardware

Shackles

Maillon Rapide - Pegeut

Riser webbing

12mm zero stretch polyester webbing

Pulleys

Ronstan ball bearing

ΕN

TECHNICAL SPECIFICATIONS

	XXS	XS	S	M	L	XL
No. of Cells	101	101	101	101	101	101
Projected Area (m2)	16.2	17.2	18.6	20.1	21.7	22.6
Flat Area (m2)	19.1	20.3	22	23.7	25.7	26.7
Projected Span (m)	9.4	9.7	10.1	10.5	10.9	11.1
Flat Span (m)	12	12.4	12.9	13.4	13.9	14.2
Projected Aspect Ratio	5.5	5.5	5.5	5.5	5.5	5.5
Flat Aspect Ratio	7.55	7.55	7.55	7.55	7.55	7.55
Root Chord (m)	2	2.05	2.14	2.22	2.31	2.36
Weight (Kg)	5.13	5.26	5.58	5.92	6.22	6.4
In-Flight Weight Range	80-90	85-95	90-105	95-115	105-125	115-130
Certification	CCC	CCC	CCC	CCC	CCC	CCC

CCC CERTIFICATION

The Enzo 3 has been certified to the CIVL Competition Class (CCC) 2016 revision 1 standard.

The XXS has been independently flight and load tested by Air Turquoise SA at the maximum weight of 90kgs. Subsequent sizes, which have been directly scaled from this XXS have been flight tested and self-certified by Ozone. Certification flight tests for all sizes have been carried out with the use of collapse lines and special risers with limiters set to 100mm, as defined by the norm. The publication of the following documents forms part of the certification.



EN

Enzo3 20/04/2017 **CCC Canopy Measurements**

	Canop	у Ме	surem	ent on	Spec	imen (mm)		CAD	(mm)							Diff C	AD vs	mes	ures (mi	m)	Diff CAD vs
VVC	-						-														-	mesures (%)
XXS scale ratio	(Parate Span	12022	urement	ts)					Span	12011	1						Span	-11				Span - 0.1 %
1.00000	1/2 TE	6130							1/2 TE	6182	1						1/2 TE	52				1/2 TE 0.8 %
	Rib1	1999							Rib1	1995							Rib1	-4				Rib1 - 0.2 %
Chord B	Rib 22 ct Ratio	1732 7.60							Rib 22 AR	1727 7.61							Rib 22	-5				Rib 22 -0.3 %
Aspec		chord	t.inlet	b.inlet	tab Aa	tab Ab	Tab B	tab C	AK	chord	t.inlet	b.inlet	tab Aa	tab Ab	Tab B t	ab C	Г	cho t.i	inl b.in	tab tab T	ab tab	chord
1 1st fully lined G1		1995	1913	1892	1712	1633	887	656	Rib 3	1991	1916	1896	1720	1631	886	653	Rib 3	$\overline{}$	3 4	_	-1 -3	Rib 3 -0.2%
1st fully lined G2		1785	1707	1691	1532	1460	768		Rib 20	1771	1705	1687	1530	1450	772		Rib 20		2 -4	-2 -10	4	Rib 20 -0.8%
Last lined G3		826	786	786	693		289		Rib 46	824	789	789	696		284		Rib 46	-2	3 3	3	-5	Rib 46 - 0.2 %
XS		_	rements)						6	42244	1							54				S
scale ratio 1.02522	Span 1/2 TE	12260 6302							Span 1/2 TE	12314 6338							Span 1/2 TE	54 36				Span 0.4% 1/2 TE 0.6%
chord A	Rib1	2056							Rib1	2046							Rib1	-10				Rib1 - 0.5 %
Chord B		1779							Rib 22	1771							Rib 22	-8				Rib 22 -0.5 %
Asped	t Ratio	7.54 chord	t.inlet	b.inlet	tah As	tah Ah	Tah D	tab C	AR	7.61 chord	t.inlet	h inlot	tab Aa	tah Ah	Tah B I+	ab C	[n	chol+:	inl h in	tab tab T	ah tah	chord
l 1st fully lined G1	Rib 3	2048	1968	1950	1758	1668	911	677	Rib 3	2041	1964	1944	1763	1672	908	669	Rib 3	-	4 -6		-3 -8	Rib 3 - 0.3 %
1st fully lined G2	Rib 20	1825	1751	1739	1566	1479	799		Rib 20	1816	1748	1730	1569	1487	792		Rib 20	-9 -	3 -9	3 8	-7	Rib 20 -0.5 %
Last lined G3	Rib 46	841	808	808	720		296		Rib 46	845	810	810	714		292		Rib 46	4	2 2	-6	-4	Rib 46 0.5%
S			rements)															_				
scale ratio 1.07211	Span 1/2 TE	12815 6588							Span 1/2 TE	12876 6628							Span 1/2 TE	61 40				Span 0.5% 1/2 TE 0.6%
chord A		2151							Rib1	2139							Rib1	-12				Rib1 -0.6%
Chord B		1860							Rib 22	1852	1						Rib 22	-8				Rib 22 - 0.4 %
Asped	t Ratio	7.54							AR	7.61			. 1						J. 1			
1st fully lined G1		chord 2138	t.inlet 2057	b.inlet 2035	tab Aa 1835	tab Ab 1742	Tab B 955	tab C 706	Rib 3	chord 2135	t.inlet 2055	b.inlet 2034	tab Aa 1845	1749	Tab B t	ab C 700	Rib 3		nl b.in	tab tab T	ab tab	chord Rib 3 - 0.1 %
1st fully lined G1		1906	1832	1812	1632	1549	836	706	Rib 3	1899	1828	1809	1641	1555	828	700	Rib 3		-2 -1 -4 -3		-8 -6	Rib 3 -0.1% Rib 20 -0.4%
Last lined G3		880	845	845	747		307		Rib 46	883	846	846	746		305		Rib 46	_	1 1	-1	-2	Rib 46 0.3 %
M	(Ozone	measu	rements)																			
scale ratio 1.11344	Span	13322							Span	13373							Span	51				Span 0.4%
	1/2 TE Rib1	6840 2237							1/2 TE Rib1	6884 2222							1/2 TE Rib1	-15				1/2 TE 0.6% Rib1 -0.7%
Chord B		1930							Rib 22	1923							Rib 22	-7				Rib 22 -0.4 %
Asped	t Ratio	7.55							AR	7.61												
1 1 5 11 11 11 1 1 6 1		chord	t.inlet					tab C	Dil. 2	chord	t.inlet		tab Aa		_	ab C	—	_	_	tab tab T	_	chord
1st fully lined G1 1st fully lined G2		2226 1982	2138 1905	2115 1885	1915 1700	1808 1610	992 867	734	Rib 3 Rib 20	2217 1972	2134 1898	2112 1878	1915 1704	1816 1615	987 860	727	Rib 3 Rib 20	-	-4 -3 -7 -7		-5 -7 -7	Rib 3 - 0.4% Rib 20 - 0.5%
Last lined G3		921	882	882	782	1010	321		Rib 46	918	879	879	776	1010	317		Rib 46	_	-3 -3		-4	Rib 46 -0.3%
L	(Ozone	measu	rements)																			
scale ratio	Span	13864							Span	13906							Span	42				Span 0.3 %
1.15782 chord A	1/2 TE Rih1	7110							1/2 TE Rib1	7158 2310							1/2 TE Rib1	-14				1/2 TE 0.7 % Rib1 -0.6 %
Chord B		2003							Rib 22	2000							Rib 22	-3				Rib 22 - 0.2 %
	t Ratio		ļ.,						AR	7.61	ļ				,							
4 6		chord		b.inlet					D'IL C	chord			- i		Tab B t		_	_	_	tab tab T		chord
1st fully lined G1 1st fully lined G2		2315	2223 1984	2201 1963	1986 1769	1883 1676	1035 900	764	Rib 3 Rib 20	2305 2051	2219 1974	2196 1954	1992 1772	1888 1680	1026 894	756	Rib 3 Rib 20	-10 - -9 -1	-4 -5 .0 -9		-9 -8 -6	Rib 3 - 0.4 % Rib 20 - 0.4 %
Last lined G3		959	920	920	815	10/0	334		Rib 46	954	914	914	806	1000	329		Rib 46	_	-6 -6		-5	Rib 46 - 0.5 %
XL	(Ozone	measu	rements)																			
scale ratio	Span	14192							Span	14181							Span	-11				Span - 0.1 %
1.18069	1/2 TE	7273							1/2 TE	7299								26				1/2 TE 0.4%
chord A Chord B		2373							Rib1 Rib 22	2356 2039							Rib1 Rib 22	- <u>17</u> -10				Rib1 - 0.7 % Rib 22 - 0.5 %
1	t Ratio	7.57							AR	7.61	<u> </u>											0.070
		chord		b.inlet				tab C		chord		b.inlet			_	ab C	_	_		tab tab T	\rightarrow	chord
1st fully lined G1		2361	2270	2246	2033	1934	1057	780	Rib 3	2351	2263	2239	2031	1925	1046	771	Rib 3		7 -7	-2 -9 -	_	Rib 3 -0.4%
1st fully lined G2 Last lined G3		2100 978	2024 935	2002 935	1813 830	1722	920 340		Rib 20 Rib 46	2091 973	2013 932	1992 932	1807 822	1713	912 336	\dashv	Rib 20 Rib 46	_	.1 -10 -3 -3		-8 -4	Rib 20 -0.4 % Rib 46 -0.5 %
							5											-1	., •	-1 1		

ENZO 3 CCC Line calculation 20/04/2017

Level 1 Level 2 Level 3 Level 4 Level 5 [daN] [daN] [daN]

110.3 110.3 110.3 110.3

110.3 110.3 48.4 48.4 48.4 48.4 48.4 48.4 48.4 48.4 48.4 48.4

183.24 183.24 138.86 138.86

138.86 138.86 183.24 183.24

183.24 183.24 138.86 138.86 110.3 110.3

110.3 110.3 183.24 183.24 138.86 138.86 138.86 138.86 183.24 183.24 138.86 138.86 110.3 110.3 110.3 110.3

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48.4 48.4 48.4 48.4 110.3 110.3

48.4 48.4 48.4 48.4

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> 110.3 110.3

> > 48.4 48.4

48.4

48.4

Levels L1 L2 L3 L4 L5

133.8 [kg] Max allowed weight

Sum contrib. [daN] 3019 3152 3316 4608 4925
Norm limit [G] 23 > Level1 > Level2 > Level3 > Level 4
Max weight per level [kg] 133.8 139.7 147.0 204.2 218.3

389.46

183.24

ENZO	3	CCC Li	ne cal	culatio	n	20/04/20	17							
Enzo	3 XXS, XS,	Sand	M						Enzo	3 L and XI				_
	, , , , , , ,	Strength (new)		Level 1	Level 2	Level 3	Level 4	Level 5			Strength (new)		Level 1	Ī
Line A1	Material 8000U-130	[daN]	Level	[daN]	[daN]	[daN] 226.42	[daN]	[daN]	Line A1	Material 8000U-130	[daN]	Level 3	[daN]	L
A2	8000U-130	91.6	3			183.24			A2	8000U-130	113.2	3		H
A3	8000U-90	91.6	3			183.24			A3	8000U-130	113.2	3		İ
A4 A5	8000U-130 8000U-90	113.2 91.6	3			226.42 183.24			A4 A5	8000U-130 8000U-90	113.2 91.6	3		H
A6	8000U-90	91.6	3			183.24			A6	8000U-90	91.6	3		t
A7	8000U-70	69.4	3			138.86			A7	8000U-90	91.6	3		I
A8 A9	8000U-90 8000U-50	91.6 55.2	3			183.24	110.3	110.3	A8 A9	8000U-90 8000U-50	91.6 55.2	3		ł
A10	8000U-50	55.2	4				110.3	110.3	A10	8000U-50	55.2	4		t
A11	8000U-50	55.2	4				110.3	110.3	A11	8000U-50	55.2	4		I
A12 A13	8000U-25 8000U-25	24.2	3			48.4	48.4 48.4	48.4 48.4	A12 A13	8000U-25 8000U-25	24.2	3		╀
A14	8000U-25	24.2	3			48.4	48.4	48.4	A14	8000U-25	24.2	3		t
A15 A16	8000U-25 8000U-25	24.2	2		48.4 48.4	48.4 48.4	48.4 48.4	48.4 48.4	A15 A16	8000U-25 8000U-25	24.2	3		I
A1a	8000U-90	91.6	4		40.4	40.4	183.24	183.24	A1a	8000U-23	91.6	4		t
A2a	8000U-70	69.4	4				138.86	138.86	A2a	8000U-70	69.4	4		Ī
A3a A4a	8000U-70 8000U-90	69.4 91.6	4				138.86 183.24	138.86 183.24	A3a A4a	8000U-70 8000U-90	69.4 91.6	4		ł
A5a	8000U-90	91.6	4				183.24	183.24	A5a	8000U-90	91.6	4		t
A6a	8000U-70	69.4	4				138.86	138.86	A6a	8000U-70	69.4	4		I
A7a A8a	8000U-50 8000U-50	55.2 55.2	4				110.3 110.3	110.3 110.3	A7a A8a	8000U-50 8000U-50	55.2 55.2	4		╀
A1b	8000U-90	91.6	4				183.24	183.24	A1b	8000U-90	91.6	4		t
A2b	8000U-70	69.4	4				138.86	138.86	A2b	8000U-70	69.4	4		I
A3b A4b	8000U-70 8000U-90	69.4 91.6	4				138.86 183.24	138.86 183.24	A3b A4b	8000U-70 8000U-90	69.4 91.6	4		+
A5b	8000U-70	69.4	4				138.86	138.86	A5b	8000U-70	69.4	4		t
A6b	8000U-70	69.4	4				138.86	138.86	A6b	8000U-70	69.4	4		ſ
A7b A8b	8000U-50 8000U-50	55.2 55.2	4				110.3 110.3	110.3 110.3	A7b A8b	8000U-50 8000U-50	55.2 55.2	4		H
AM1	8000U-190	194.7	2		389.46				AM1	8000U-230	237.8	2		t
AM2 AM3	8000U-190 8000U-190	194.7 194.7	2		389.46 389.46				AM2 AM3	8000U-230 8000U-190	237.8 194.7	2		ſ
AM4	8000U-190	113.2	2		226.42				AM4	8000U-190 8000U-190	194.7	2		H
AM5	8000U-130	113.2	2		226.42				AM5	8000U-130	113.2	2		İ
AM6 AMU1	8000U-50 8000U-70	55.2 69.4	2		110.3	138.86			AM6 AMU1	8000U-50 8000U-70	55.2 69.4	2		I
AMU2	8000U-70	55.2	3			110.3			AMU2	8000U-70	55.2	3		ł
AR1	8000U-360	315.5	1	630.94					AR1	8000U-470	499.7	1	999.36	İ
AR2 AR3	8000U-360 8000U-190	315.5 194.7	1	630.94 389.46					AR2 AR3	8000U-360 8000U-190	315.5 194.7	1	630.94 389.46	H
ARU4	8000U-50	55.2	1	110.3					ARU4	8000U-50	55.2	1	110.3	ł
B1	8000U-50	55.2	5					110.3	B1	8000U-50	55.2	5		İ
B2 B3	8000U-50 8000U-50	55.2 55.2	5					110.3 110.3	B2 B3	8000U-50 8000U-50	55.2 55.2	5		╀
B4	8000U-50	55.2	5					110.3	B4	8000U-50	55.2	5		t
B5	8000U-50	55.2	4				110.3	110.3	B5	8000U-50	55.2	4		I
B6 B7	8000U-50 8000U-50	55.2 55.2	4				110.3 110.3	110.3 110.3	B6 B7	8000U-50 8000U-50	55.2 55.2	4		╀
B8	8000U-50	55.2	4				110.3	110.3	B8	8000U-50	55.2	4		t
B9 B10	8000U-50 8000U-25	55.2	4				110.3	110.3	B9 B10	8000U-50 8000U-25	55.2	4		ļ
B10	8000U-25	24.2	4				48.4 48.4	48.4 48.4	B10 B11	8000U-25	24.2 24.2	4		ł
B12	8000U-25	24.2	4				48.4	48.4	B12	8000U-25	24.2	4		İ
B13 B14	8000U-25 8000U-25	24.2	4				48.4 48.4	48.4 48.4	B13 B14	8000U-25 8000U-25	24.2 24.2	4		╀
B15	8000U-25	24.2	4				48.4	48.4	B14	8000U-25	24.2	4		t
B16	8000U-50	55.2	4				110.3	110.3	B16	8000U-50	55.2	4		F
B17 B18	8000U-25 8000U-25	24.2	4				48.4 48.4	48.4 48.4	B17 B18	8000U-25 8000U-25	24.2	4		+
B19	8000U-25	24.2	4				48.4	48.4	B19	8000U-25	24.2	4		f
B20	8000U-25	24.2	4				48.4	48.4	B20	8000U-25	24.2	4		ſ
B21 B22	8000U-25 8000U-25	24.2	3			48.4	48.4 48.4	48.4 48.4	B21 B22	8000U-25 8000U-25	24.2	3		H
B23	8000U-25	24.2	3			48.4	48.4	48.4	B23	8000U-25	24.2	3		t
B24	8000U-25	24.2	2		48.4	48.4	48.4	48.4	B24	8000U-25	24.2	2		
B25 BM1	8000U-25 8000U-90	24.2 91.6	2		48.4 183.24	48.4	48.4	48.4	B25 BM1	8000U-25 8000U-90	24.2 91.6	2		f
BM2	8000U-90	91.6	2		183.24				BM2	8000U-90	91.6	2		Í
BM3 BM4	8000U-90 8000U-90	91.6 91.6	2		183.24 183.24				BM3 BM4	8000U-90 8000U-90	91.6 91.6	2		l
BM5	8000U-50	55.2	2		110.3				BM5	8000U-90 8000U-50	55.2	2		f
BM6	8000U-25	24.2	2		48.4	4.5			BM6	8000U-25	24.2	2		Í
BMUL1 BMU1	8000U-50 8000U-50	55.2 55.2	3 4			110.3	110.3	\vdash	BMUL1 BMU1	8000U-50 8000U-50	55.2 55.2	3 4		H
BMUL2	8000U-50	55.2	3			110.3	. 10.0		BMUL2	8000U-50	55.2	3		t
DIVIOLE		55.2	4				110.3		BMU2	8000U-50	55.2	4		Ī
BMU2	8000U-50			1		110.3 110.3			BMUL3 BMUL4	8000U-50 8000U-50	55.2 55.2	3		+
BMU2 BMUL3	8000U-50	55.2	3											
BMU2 BMUL3 BMUL4			3			110.3			BMUL5	8000U-50	55.2	3		t
BMU2 BMUL3 BMUL4 BMUL5 BMUL6	8000U-50 8000U-50 8000U-50 8000U-50	55.2 55.2 55.2 55.2	3 3 3			110.3			BMUL6	8000U-50	55.2 55.2	3		ļ
BMU2 BMUL3 BMUL4 BMUL5 BMUL6	8000U-50 8000U-50 8000U-50	55.2 55.2 55.2	3								55.2			
BMU2 BMUL3 BMUL4 BMUL5 BMUL6 BMUL7 BMUL8 BMUL8	8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50	55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2	3 3 3 3 3			110.3 110.3 110.3 110.3			BMUL6 BMUL7 BMUL8 BMUL9	8000U-50 8000U-50 8000U-50 8000U-50	55.2 55.2 55.2 55.2 55.2	3 3 3 3		
BMU2 BMUL3 BMUL4 BMUL5 BMUL6 BMUL7 BMUL8 BMUL9 MUL10	8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-25	55.2 55.2 55.2 55.2 55.2 55.2 55.2 24.2	3 3 3 3 3 3	290.40		110.3 110.3 110.3			BMUL6 BMUL7 BMUL8 BMUL9 BMUL10	8000U-50 8000U-50 8000U-50 8000U-50 8000U-25	55.2 55.2 55.2 55.2 55.2 55.2 24.2	3 3 3 3	390.40	
BMU2 BMUL3 BMUL4 BMUL5 BMUL6 BMUL7 BMUL7 BMUL8 BMUL9 BMUL9 BMUL10 BR1	8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-190	55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2	3 3 3 3 3	389.46 389.46		110.3 110.3 110.3 110.3			BMUL6 BMUL7 BMUL8 BMUL9	8000U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-190	55.2 55.2 55.2 55.2 55.2	3 3 3 3	389.46 389.46	
BMU2 BMUL3 BMUL4 BMUL5 BMUL6 BMUL7 BMUL8 BMUL9 MUL10 BR1 BR2 BR3	800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-190 800U-190 800U-50	55.2 55.2 55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7	3 3 3 3 3 3 1 1	389.46 389.46 110.3		110.3 110.3 110.3 110.3			BMUL6 BMUL7 BMUL8 BMUL9 BMUL10 BR1 BR2 BR3	8000U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-190 8000U-190 8000U-50	55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2	3 3 3 3 1 1	389.46 389.46 110.3	
BMU2 BMUL3 BMUL4 BMUL5 BMUL6 BMUL7 BMUL8 BMUL9 MUL10 BR1 BR2 BR3 C1	800U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-25 8000U-190 8000U-190 8000U-50	55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2	3 3 3 3 3 3 1 1 1 5	389.46		110.3 110.3 110.3 110.3		48.4	BMUL6 BMUL7 BMUL8 BMUL9 BMUL10 BR1 BR2 BR3 C1	8000U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-190 8000U-190 8000U-50 8000U-25	55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2	3 3 3 3 1 1 1 5	389.46	
MUL3 MUL4 MUL5 MUL6 MUL7 MUL8 MUL9 MUL10 BR1 BR2 BR3	800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-190 800U-190 800U-50	55.2 55.2 55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7	3 3 3 3 3 3 1 1	389.46		110.3 110.3 110.3 110.3		48.4 48.4 48.4	BMUL6 BMUL7 BMUL8 BMUL9 BMUL10 BR1 BR2 BR3	8000U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-190 8000U-190 8000U-50	55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2	3 3 3 3 1 1	389.46	
MUL10 BR1 BR2 BR3 C1 C2 C3 C4	800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-25 8000U-25 8000U-190 800U-190 800U-25 800U-25 800U-25 800U-25	55.2 55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2 24.2 24.2	3 3 3 3 3 3 1 1 1 1 5 5 5	389.46		110.3 110.3 110.3 110.3		48.4	BMUL6 BMUL7 BMUL8 BMUL9 BMUL10 BR1 BR2 BR3 C1 C2 C3 C4	800U-50 800U-50 800U-50 800U-50 800U-25 800U-190 800U-190 800U-50 800U-25 800U-25 800U-25 800U-25	55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2 24.2 24.2	3 3 3 3 1 1 1 5 5 5	389.46	
MUL3 MUL4 MUL5 MUL6 MUL7 MUL8 MUL9 MUL10 BR1 BR2 BR3 C1 C2 C3 C4	800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-190 800U-190 800U-190 800U-25 800U-25 800U-25 800U-25	55.2 55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2 24.2 24.2 24.2	3 3 3 3 3 3 1 1 1 5 5 5	389.46		110.3 110.3 110.3 110.3	48.4	48.4 48.4	BMUL6 BMUL7 BMUL8 BMUL9 BMUL9 BR1 BR2 BR3 C1 C2 C3 C4 CMU1	800U-50 800U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-190 800U-190 800U-25 8000U-25 8000U-25 8000U-25 8000U-25	55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2 24.2 24.2 24.2	3 3 3 3 3 1 1 1 5 5 5 5	389.46	
BMU2 BMUL3 BMUL4 BMUL5 BMUL6 BMUL7 BMUL9 MUL10 BR1 BR2 BR2 C1 C2 C3 C4	800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-50 800U-25 8000U-25 8000U-190 800U-190 800U-25 800U-25 800U-25 800U-25	55.2 55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2 24.2 24.2	3 3 3 3 3 3 1 1 1 1 5 5 5 5	389.46	L2	110.3 110.3 110.3 110.3 48.4	48.4	48.4 48.4 48.4	BMUL6 BMUL7 BMUL8 BMUL9 BMUL10 BR1 BR2 BR3 C1 C2 C3 C4	800U-50 800U-50 800U-50 800U-50 800U-25 800U-190 800U-190 800U-50 800U-25 800U-25 800U-25 800U-25	55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2 24.2 24.2	3 3 3 3 1 1 1 5 5 5	389.46	
BMU2 BMUL3 BMUL4 BMUL5 BMUL6 BMUL7 BMUL8 BMUL9 MUL10 BR1 BR2 BR3 C1 C2 C3 C4 CMU1	8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-90 8000U-90 8000U-25 8000U-25 8000U-25 8000U-25	55.2 55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2 24.2 24.2 24.2	3 3 3 3 3 3 3 1 1 1 1 5 5 5 5 4 4 4 Levels	389.46 110.3	L2 2817	110.3 110.3 110.3 110.3		48.4 48.4	BMUL6 BMUL7 BMUL8 BMUL9 BMUL9 BR1 BR2 BR3 C1 C2 C3 C4 CMU1	800U-50 800U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-190 800U-190 800U-25 8000U-25 8000U-25 8000U-25 8000U-25	55.2 55.2 55.2 55.2 55.2 194.7 194.7 55.2 24.2 24.2 24.2 24.2 24.2	3 3 3 3 1 1 1 5 5 5 5 4 4 Levels	389.46 110.3	
BMU2 BMUL3 BMUL4 BMUL5 BMUL6 BMUL7 BMUL8 BMUL9 MUL10 BR1 BR2 BR3 C1 C2 C3 C4 CMU1	8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-90 8000U-90 8000U-25 8000U-25 8000U-25 8000U-25	55.2 55.2 55.2 55.2 55.2 55.2 194.7 194.7 55.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2	3 3 3 3 3 3 3 1 1 1 1 5 5 5 5 4 4 4 Levels	389.46 110.3 L1 2651 23	2817 > Level1	110.3 110.3 110.3 110.3 48.4 L3 3185 > Level2	48.4 L4 4608 > Level3	48.4 48.4 48.4 L5 4925 > Level 4	BMUL6 BMUL7 BMUL8 BMUL9 BMUL9 BR1 BR2 BR3 C1 C2 C3 C4 CMU1	800U-50 800U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-190 800U-190 800U-25 8000U-25 8000U-25 8000U-25 8000U-25	55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2	3 3 3 3 1 1 1 5 5 5 5 4 4 Levels	389.46 110.3 L1 3019 23	
BMU2 BMUL3 BMUL4 BMUL5 BMUL6 BMUL7 BMUL8 BMUL9 BMUL10 BR1 BR2 BR3 C1 C2 C3	8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-50 8000U-190 8000U-25 8000U-25 8000U-25 8000U-25 8000U-25 8000U-25 8000U-25	55.2 55.2 55.2 55.2 55.2 55.2 194.7 194.7 55.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2	3 3 3 3 3 3 1 1 1 1 5 5 5 5 5 4 4 Levels ib. [daN] limit [G]	389.46 110.3 L1 2651	2817	110.3 110.3 110.3 110.3 48.4	48.4 L4 4608	48.4 48.4 48.4 L5 4925	BMUL6 BMUL7 BMUL8 BMUL9 BMUL9 BR1 BR2 BR3 C1 C2 C3 C4 CMU1	8000U-50 8000U-50 8000U-50 8000U-50 8000U-25 8000U-190 8000U-190 8000U-25 8000U-25 8000U-25 8000U-25 8000U-25 8000U-25	55.2 55.2 55.2 55.2 55.2 24.2 194.7 194.7 55.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2	3 3 3 3 1 1 1 5 5 5 5 4 4 Levels trib. [daN] n limit [G]	389.46 110.3	

Line reference	Strength*	Paratest Test Date
8000U-025	24.2	04/04/2017
8000U-050	55.15	10/08/2016
8000U-070	69.43	10/08/2016
8000U-090	91.62	10/08/2016
8000U-130	113.21	10/08/2016
8000U-190	194.73	10/08/2016
8000U-230	237.81	10/08/2016
8000U-280	276.39	10/08/2016
8000U-360	315.47	10/08/2016
8000U-470	499.68	10/08/2016
* average stre	ength of 10 s	sample lines

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Enzo3

CCC Table of Line Quality 20/04/2017

Enzo3 XXS, XS, S and M

Edelrid 10-200 Liros DSL-140 KRL ARU4

Edelrid 8000U-25			
A12	B18	C3	K5
A13	B19	C4	K6
A14	B20	CMU1	K7
A15	B21	CMU2	K8
A16	B22	K1	K9
B10	B23	K10	KMU1
B11	B24	K11	KMU2
B12	B25	K12	KMU3
B13	BM6	K13	KMU4
B14	BMU10	K2	KMU5
B15	C1	K3	KMU6
B17	C2	K4	

delrid 8000U-50)		
A10	B2	BMU9	BMUL5
A11	В3	BMUL7	BMUL6
A7a	B4	BMUL8	KM1
A7b	B5	AM6	KM2
A8a	В6	AMU2	KML1
A8b	В7	BM5	KML2
A9	B8	BMUL1	BR3
ARL4	В9	BMUL2	
B1	BMU1	BMUL3	
B16	BMU2	BMUL4	

Edelrid 8000U-70		
A2a	A3b	A6b
A2b	A5b	A7
A3a	A6a	AMU1

Edelrid 8000U-90			
A1a	A4a	A6	BM3
A1b	A4b	A8	BM4
A2	A5	BM1	KRU
A3	A5a	BM2	

Edelrid 8000U-13	0		
A1	A4	AM4	AM5

Edelrid 8000U-19	0	
AM1	AM3	BR1
AM2	AR3	BR2

Edelrid 8000U-36	0
AR1	AR2

0/04/2017			
nzo3 L and	XL		
delrid 10-200		Liros DSL-140	
KRL		ARU4	
delrid 8000U-25		1 1	
A12	B18	C3	K5
A13	B19	C4	K6
A14	B20	CMU1	K7
A15	B21	CMU2	K8
A16	B22	K1	К9
B10	B23	K10	KMU1
B11	B24	K11	KMU2
B12	B25	K12	KMU3
B13	BM6	K13	KMU4
B14	BMU10	K2	KMU5
B15	C1	K3	KMU6
B17	C2	K4	
delrid 8000U-50			
A10	B2	BMU9	BMUL5
A11	В3	BMUL7	BMUL6
A7a	B4	BMUL8	KM1
A7b	B5	AM6	KM2
A8a	В6	AMU2	KML1
A8b	В7	BM5	KML2
A9	В8	BMUL1	BR3
ARL4	В9	BMUL2	
B1	BMU1	BMUL3	
B16	BMU2	BMUL4	

Edelrid 8000U-90			
A1a	A5	A8	BM4
A1b	A5a	BM1	KRU
A4a	A6	BM2	
A4b	A7	BM3	

AMU1

Edelrid 8000U-13	0	
A1	A3	AM5
A2	A4	

A5b

A6a

Edelrid 8000U-19	0	
AM3	AR3	BR2
ΔΜΔ	RR1	

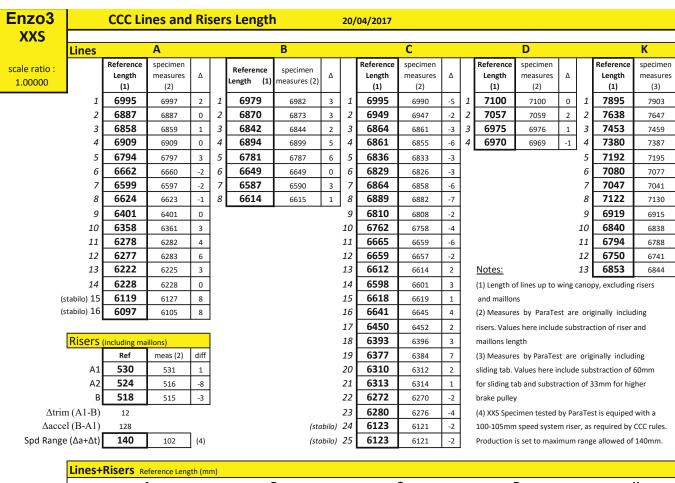
Edelrid 8000U-23	0
AM1	AM2

A2b

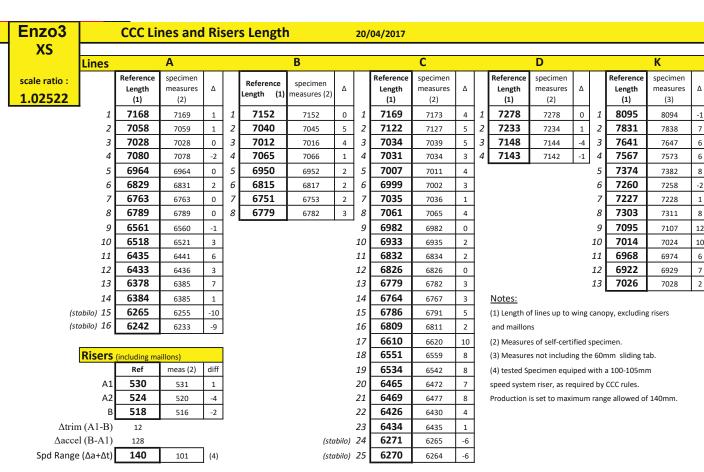
A3a

Edelrid 8000U-360 AR2

Edelrid 8000U-470 AR1

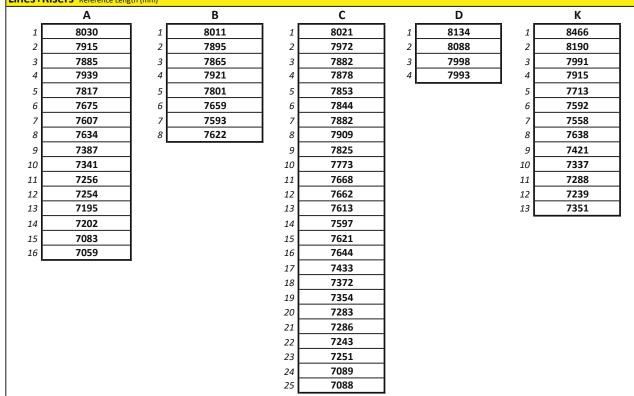


	Α		В		С		D		K
1	7525	1	7509	1	7513	1	7618	1	7895
2	7417	2	7400	2	7467	2	7575	2	7638
3	7388	3	7372	3	7382	3	7493	3	7453
4	7439	4	7424	4	7379	4	7488	4	7380
5	7324	5	7311	5	7354] '		5	7192
6	7192	6	7179	6	7347	1		6	7080
7	7129	7	7117	7	7382]		7	7047
8	7154	8	7144	8	7407]		8	7122
9	6925			9	7328]		9	6919
10	6882			10	7280]		10	6840
11	6802			11	7183	1		11	6794
12	6801			12	7177]		12	6750
13	6746			13	7130			13	6853
14	6752			14	7116]			
15	6643			15	7136				
16	6621			16	7159				
		•		17	6968				
				18	6911]			
				19	6895]			
				20	6828	1			
				21	6831				
				22	6790]			
				23	6798]			
				24	6647]			
				25	6647	I			



Lines+	Risers Reference Leng	th (mm)							
	Α		В		С		D		K
1	7698	1	7682	1	7687	1	7796	1	8095
2	7588	2	7570	2	7640	2	7751	2	7831
3	7558	3	7542	3	7552	3	7666	3	7641
4	7610	4	7595	4	7549	4	7661	4	7567
5	7494	5	7480	5	7525]		5	7374
6	7359	6	7345	6	7517			6	7260
7	7293	7	7281	7	7553			7	7227
8	7319	8	7309	8	7579			8	7303
9	7085			9	7500			9	7095
10	7042			10	7451			10	7014
11	6959			11	7350			11	6968
12	6957			12	7344			12	6922
13	6902			13	7297			13	7026
14	6908			14	7282				
15	6789			15	7304				
16	6766			16	7327				
				17	7128				
				18	7069	l			
				19	7052				
				20	6983				
				21	6987				
				22	6944	ļ			
				23	6952				
				24	6795				
				25	6794	l			

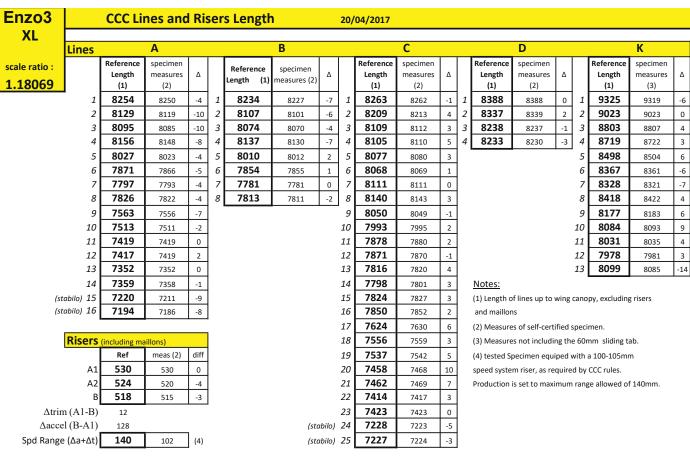
Enzo3		CCC Li	nes and	Ris	ser	s Length	1		20/	04/2017										
S	Lines		A				В				С				D				K	_
scale ratio : 1.07211		Reference Length (1)	specimen measures (2)	Δ		Reference Length (1)	specimen measures (2)	Δ		Reference Length (1)	specimen measures (2)	Δ		Reference Length (1)	specimen measures (2)	Δ		Reference Length (1)	specimen measures (3)	Δ
1.07211	1	7500	7501	1	1	7481	7488	7	1	7503	7507	4	1	7616	7613	_	1	8466	8462	-4
	2	7385	7387	2	2	7365	7369	4	2	7454	7460	6	2	7570	7570	-	2	8190	8189	-1
	3 4	7355 7409	7358 7411	3	3	7335 7391	7338 7397	3 6	3	7364 7360	7368 7366	6	3 4	7480 7475	7480 7471	_	3 4	7991 7915	7984 7909	-7 -6
	5	7287	7282	-5	5	7271	7272	1	5	7335	7335	0	4	7473	7471	ш	5	7713	7715	2
	6	7145	7146	1	6	7129	7134	5	6	7326	7329	3					6	7592	7588	-4
	7	7077	7077	0	7	7063	7067	4	7	7364	7365	1					7	7558	7552	-6
	8	7104	7105	1	8	7092	7091	-1	8	7391	7392	1					8	7638	7638	0
	9	6863	6864	1					9	7307	7308	1					9	7421	7431	10
	10	6817	6823	6					10	7255	7256	1				1	10	7337	7344	7
	11	6732	6741	9					11	7150	7152	2				1	11	7288	7293	5
	12	6730	6737	7					12	7144	7144	0				1	12	7239	7245	6
	13	6671	6673	2					13	7095	7097	2				1	13	7351	7349	-2
	14	6678	6681	3					14	7079	7082	3		Notes:						
	abilo) 15	6559	6549	-10					15	7103	7110	7			of lines up to	wing ca	anop	y, excluding	risers	
(sto	abilo) 16	6535	6525	-10					16	7126	7132	6		and maillor						
					ı				17	6915	6921	6			s of self-cert					
	Risers	(including ma							18	6854	6862	8			es not includi	-		_		
		Ref	meas (2)	diff					19	6836	6845	9			pecimen equi				n	
	A1	530	531	1					20	6765	6769	4			m riser, as re					
	A2	524 518	520 515	-4 -3					21 22	6768 6725	6774 6730	6 5		Production	is set to maxi	mum r	ang	e allowed of	140mm.	
Atmin	ا ^م (۱۱۵)	12	515	-3	l				23	6733		4								
	1 (A1-B) 1 (B-A1)	128					(ct/	abilo)		6565	6737 6559	-6								
Spd Range	` ′	140	101	(4)				abilo)		6564	6556	-8								
Spu Kange	(Δα · Δι /	140	101	(4)			(310	<i>Julio</i>	23	0304	0330	-0								
	Lines+		eference Leng	th (m	m)						_									
			4				В				С		ı		D				K	,
	1		30		1		11		1		21		1		134	1	1		166	.
	2		15		2		95		2		72		2)88	1	2		.90	-
	3		85		3		865	l	3		882		3		998	1	3		91	1
	4		39		4		21	l	4		378		4	79	993	ı	4		15	-
	5		317		5		801	l	5		353						5		13	1
	6		575		6		559	l	6		844						6		92	-
	7		07		7		93	l	7		882						7		558	-
	8		34		8		522	I	8		009						8		38	-
	9	73	87	l					9	i 78	325	1					9	74	21	



	Α		В		С		D		K
1	8319	1	8299	1	8311	1	8430	1	8793
2	8200	2	8179	2	8261	2	8382	2	8507
3	8168	3	8148	3	8166	3	8290	3	8300
4	8225	4	8207	4	8162	4	8284	4	8220
5	8099	5	8082	5	8137] '		5	8011
6	7952	6	7936	6	8128			6	7887
7	7881	7	7866	7	8168			7	7851
8	7909	8	7897	8	8195]		8	7934
9	7653			9	8108			9	7709
10	7607			10	8055			10	7621
11	7517			11	7946	J		11	7571
12	7515			12	7940			12	7522
13	7454			13	7888	J		13	7636
14	7461			14	7872				
15	7336			15	7895	J			
16	7311			16	7920				
				17	7703]			
				18	7639				
				19	7621				
				20	7546				
				21	7550]			
				22	7504				
				23	7512				
				24	7343]			
				25	7342				

Enzo3		CCC Li	nes and	Ris	ser	s Length	า		20/	04/2017										
L							В				С								1/	T
	Lines	Reference	A				i D			Reference	specimen			Reference	D			Reference	K	
scale ratio :		Length	specimen measures	Δ		Reference	specimer	1 A		Length	measures	Δ		Length	specimen measures	Δ	1	Length	specimen measures	Δ
1.15782		(1)	(2)			Length (1)	measures (.2)		(1)	(2)			(1)	(2)	Ш		(1)	(3)	Ш
	1	8098	8096	-2	1	8078	8083	5	1	8104	8108	4	1	8226	8222	-4	1	9144	9140	-4
	2	7975	7974	-1	2	7954	7962	8	2	8051	8055	4	2	8175	8174	-1	2	8847	8844	-3
	3	7942	7942	0	3	7922	7925	3	3	7953	7953	0	3	8079	8074	_	3	8633	8635	2
	4	8001	7999	-2	4	7982	7987	5	4	7949	7952	3	4	8074	8069		4	8549	8551	2
	5	7872	7873	1	5	7855	7865	10	5	7922	7928	6					5	8332	8329	-3
	6	7719	7722	3	6	7702	7708	6	6	7913	7918	5					6	8203	8200	-3
	7	7645	7646	1	7	7630	7633	3	7	7955	7957	2					7	8165	8156	-9
	8	7674	7678	4	8	7662	7665	3	8	7984	7985	1					8	8252	8249	-3
	9	7415 7366	7419	4					9 10	7893 7838	7894	1					9	8018 7926	8022	4
	10 11	7274	7368 7280	2					10	7725	7839 7724	-1					1	7875	7930 7881	4
	12	7274	7280 7275	6 3					12	7719	7724	-1 1					2	7824		6
	13	7209	7273	2					13	7665	7664	-1					3	7942	7830 7941	-1
	14	7216	7211	0					14	7648	7648	0		Notes:		_	٦ ا .	7342	7341	
/str	abilo) 15	7080	7071	-9					15	7673	7673	0			of lines up to	wing ca	nor	v evcluding	risers	
	abilo) 16	7054	7071	-10					16	7699	7700	1		and maillor	•	willig ca	ΠΟΡ	y, excluding	, 113013	
,	, ,	700	7011	10	l				17	7472	7473	1			es of self-cert	ified sn	ecin	nen		
	Risers	(including ma	aillons)						18	7406	7404	-2			es not includi				ıb.	
	1113013	Ref	meas (2)	diff					19	7386	7385	-1			pecimen equ	_		_		
	A1	530	530	0					20	7309	7307	-2			m riser, as re					
	A2	524	520	-4					21	7313	7311	-2			is set to max				140mm.	
	В	518	515	-3					22	7266	7264	-2					Ū			
Δtrim	n (A1-B)	12	-		•				23	7274	7272	-2								
Δacce	l (B-A1)	128					(stabilo)	24	7088	7086	-2								
Spd Range	(∆a+∆t)	140	102	(4)			(stabilo)	25	7087	7082	-5								
	'																			
	Lines+		eference Leng	th (m	m)						_									
			4				В	_			C	1			D	1	, r		<u> </u>	,
	1		28		1		08	4	1		522	l	1		744	1	1		44	
	2		05		2		184	\dashv	2		69	l	2		593	1	2		47	
	3		72		3		152	-	3		171	l	3		597	1	3		33	
	4	-	31		4		12	4	4		167	l	4	85	92	4	4		49	
	5	84			5		85	\dashv	5		140	l					5		32	
	6		49		6		32	-	6		131	l					6		03	
	7		.75		7		.60	4	7		173	l					7		.65	
	8		:04		8	81	.92		8		502	l					8		52	
	9		39						9		111	l					9		18	
	10		90						10		356	l					0		26	
	11		98						11		243	l					1		75	
	12		96						12		237						2		24	
	13		33						13		183	l				1	3	79	42	1
	14	77	40						14	81	166	l								





	Α		В		С		D		K
1	8784	1	8764	1	8781	1	8906	1	9325
2	8659	2	8637	2	8727	2	8855	2	9023
3	8625	3	8604	3	8627	3	8756	3	8803
4	8686	4	8667	4	8623	4	8751	4	8719
5	8557	5	8540	5	8595			5	8498
6	8401	6	8384	6	8586			6	8367
7	8327	7	8311	7	8629			7	8328
8	8356	8	8343	8	8658			8	8418
9	8087	_		9	8568			9	8177
10	8037			10	8511			10	8084
11	7943			11	8396			11	8031
12	7941			12	8389			12	7978
13	7876			13	8334			13	8099
14	7883			14	8316				
15	7744			15	8342				
16	7718			16	8368				
				17	8142				
				18	8074				
				19	8055				
				20	7976				
				21	7980				
				22	7932				
				23	7941				
				24	7752				
				25	7751	l			





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Inspired by Nature, Driven by the Elements