

# **USER'S MANUAL PEAK 3**



## PEAK 3

Set your new challenges

### WELCOME

We wish to welcome you to our team and thank you for the confidence that you have placed in a NIVIUK Glider.

We would like to share with you the commitment, the passion and emotions of the Niviuk design team, which have resulted in the creation of the new PEAK 3. Niviuk are very proud of this new glider, a glider carefully designed to bring you maximum pleasure whilst allowing you learn and progress.

The Peak 3 is one of nowadays most ambitious serial XC paragliders. It shares the same DNA of the Icepeak 6. It is a top glider with a competitive spirit.

To reach new goals you need the appropriate means: an easy handling, compact and efficient glider capable of bringing you wherever you wish. We are confident that you will enjoy flying this wing and that you will soon understand the meaning of our slogan:

“The importance of small details”

This is the user's manual that we recommend you to read in detail.

The **NIVIUK Gliders** Team.

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## USER'S MANUAL

### NIVIUK Gliders PEAK 3

This manual offers all the necessary information that will familiarize you with the main characteristics of your new paraglider. Although this manual informs you about your glider, it does not offer the instruction requirements necessary for you to be able to pilot this type of wing. Flying instruction can only be taught at a paragliding school recognized by the Flying Federation of your country.

Nevertheless we remind you that it is important that you carefully read all the contents of the manual for your new PEAK 3.

Severe injuries to the pilot can be the consequence of the misuse of this equipment.

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## 1. CHARACTERISTICS

### 1.1 WHO IS IT DESIGNED FOR?

The PEAK 3 has been designed for current and experienced pilots and those wishing to compete in high performance competitions but without renouncing the security of a certified glider. The PEAK 3 has been particularly designed for those Cross Country enthusiasts who seek the performance, confidence and comfort, to be able to maximise and fully enjoy their flights.

Description of the skills and experience required for this glider:

For those pilots used to recovery techniques, active piloting, to fly on turbulent conditions and capable of flying these kind of demanding gliders.

### 1.2 CERTIFICATION

The PEAK 3 passed the certification according to European EN / LTF rules. This test was carried out in the Swiss Air-Turquoise laboratories in Switzerland. All the commercially available sizes passed every required test with excellent results: load test of 8g and collision test of 1.000daN without experiencing any problems.

The certification result achieved on the PEAK 3 for all sizes is:

EN D  
LTF D

We recommend paying special attention on the flight test report made by the certification laboratory, and specially attention to the test pilot comments (Point 25 on the flight test report).

On the flight test report there is all necessary information to know how the new glider will react on each manoeuvre tested.

It is important to take into account that each size can have a different reaction on the same manoeuvre. Furthermore, the same size on maximum load or minimum load can experiment a different behaviour.

Description of flight characteristics on D class:

Paragliders with very demanding flying characteristics and potentially violent reactions to turbulence and pilot errors. Recommended for experienced and regularly flying pilots.

The intervention of the pilot is needed to recover a normal flight state. Check the certification results and figures on the last pages of this manual or at [www.niviuk.com](http://www.niviuk.com)

### 1.3 IN-FLIGHT BEHAVIOUR

Designing a new high-featured and accessible glider is the result of years of research and extensive testing flights under all conditions and in different places in order to provide an easy piloting wing.

The PEAK 3 cells are impregnated with Niviuk technology: equipped with SLE and RAM air intake technology in the leading edge to gain performance, speed and stability. The parasitic drag is reduced to the minimum decreasing the overall length of the suspension lines thanks to its internal architecture. It offers you more features and more safety with less aspect ratio and weight.

With an aspect ratio of only 6.5, it is a 2 liner wing that provides clear and useful information to the pilot; it usually situates itself into the centre of the thermal or it follows the ascendant (good) air flow. Its air entrances have been replaced, so the application of the RAM air intake turns the leading edge in a powerful and key element to its performance. While flying the PEAK 3 the pilot feels that can reach his full potential.

In thermals, you will realize that you are piloting a glider with a big capacity to reach the nucleus. Regarding speed and L/D, PEAK 3 is 5

surprising; the pilot can feel the glider, through the accelerator pulley, and can anticipate its movements. Even at high speed the wing is stable due to the RAM air intake. The accelerator pulley of PEAK 3 works gradually and lets you enjoy real acceleration without losing L/D in the first part of the accelerator. The wing is homogeneous, fast and capable to fly as far as you dreamed possible. The second part of the accelerator is very accessible and pleasurable to use. The glider keeps its excellent glide angle throughout a full days flying in all conditions.

If you already are a Niviuk pilot the improvements of this glider will surprise you. If this is the first time you pilot one of our gliders, just enjoy it!

#### 1.4 ASSEMBLY, MATERIALS

The PEAK 3 has all the technological innovations as used on other Niviuk gliders. Furthermore it is full of small details destined to enhance the pilots' comfort (using Harken pulleys) and to improve the performance of the SLE, STE and RAM AIR INTAKE systems.

The small Harken pulleys on the risers have been used to reduce the effort of the pilot and to improve the progression when using the speed bar.

The use of the SLE (Structured Leading Edge) allows reinforcement of the leading edge preventing any deformation during turbulence. The airflow is also vastly improved over the entire front span of the glider. (See <http://niviuk.com/technology.asp?id=JNKPKN4>)

The STE (structured Trailing edge) optimizes the profile without any distortion, resulting in less resistance and improved performance. (See <http://www.niviuk.com/technology.asp?id=JNKNQL0>)

The RAM AIR INTAKE technology presents an internal situation for the air entrance to allow an optimal maintenance of the internal pressure as well as an improving of the laminar flow on intrados. What's the result?

Gaining turbulent air absorption in the leading edge, more consistent at every speed and a better performance while assuring maximum security. (See <http://www.niviuk.com/technology.asp?id=JNKQKNP4>)

The new generation profile of the PEAK 3 has been conceived to efficiently distribute the total load across the two rows of lines. The chosen materials and line dimensions have minimum air resistance while respecting the security and maximum load efficiency.

The line plan on the PEAK 3 has a total of 184 unsheathed lines, which are slightly more exposed to the normal rigours and wear of our sport. It is strongly recommended that all lines are thoroughly checked by the pilot prior to every flight and ultimately checked by a service centre or Niviuk dealer after the first 30 hours of flight. We should not forget that we are using materials with great performance but that they need a rigorous check before every flight.

The fabrics used in the construction of the PEAK 3 have been carefully selected for their lightweight, UV standards and resilient properties when used during normal conditions.

Not a single millimetre of error is possible in the manufacturing process from Olivier's computer to the cutting of the fabric. An automatic process controlled by a laser-cutting program cuts each of the sections that compose the different parts of the wing. This program not only cuts the pieces of fabric but it also paints the guideline marks that will aid the assembly; it also numbers the separate pieces of material. All this is carried out before human handling of the pieces begins. So we eliminate possible and understandable errors that may occur during this delicate procedure.

The lines are semi-automatically manufactured and all the sewing is finished under the supervision of our specialists. The jigsaw puzzle of the assembly process is made easier using this method. We minimize the processes while making the quality control more efficient. All the different

parts of the canopy are cut and assembled under the strict conditions induced by the automation of the whole process.

All NIVIUK Gliders go through an extremely thorough and efficient final inspection. Every single line of each glider is measured individually once the final assembly has concluded. Each wing is then individually inflated for the last visual revision.

Each glider is packaged following the maintenance and conservation instructions recommended for the advanced materials. NIVIUK Gliders are made of first class materials as demanded by the performance, durability, and homologation requirements of the present-day market. Information about construction materials is given on the last pages of this manual.

## 1.5 ELEMENTS, COMPONENTS

The PEAK 3 is delivered to its owner together with a series of components that, although not fundamental, do take an important part in the use, transport and storage of the paraglider:

- The new large capacity Kargo rucksack 220L, ideal for packing also one competition harness (such as the Drifter). Capacity and comfort all in one.
- The N-Kare bag, which makes easy the glider folding process. Moreover, it protects the wing when packing and carrying. An adjustable strap for quick and easy compression to fold the wing as small as possible.
- A small fabric repair including auto adhesive rips top (same colours of the wing) and replacement maillon blockers.
- An instruction booklet including the technical data info, the line plan and some tips.

The user's manual with the answers all our questions about our new PEAK 3 is available at [www.niviuk.com](http://www.niviuk.com)

## 2. UNPACKING AND ASSEMBLY

### 2.1 CHOOSE THE RIGHT PLACE

We recommend that you unpack and assemble your wing on a schooling slope or a flat clear area without too much wind and free of obstacles. These conditions will allow you to carry out all the steps required for you to check and inflate the PEAK 3.

We recommend that an instructor or a retailer supervises the entire procedure as only they are competent to resolve any doubt in a safe and professional way.

### 2.2 PROCEDURE

Take the paraglider out of the rucksack, open it and spread it open, with the lines on top of the underside, position the wing as if you were to inflate it. Check the condition of the fabric and the lines, make sure there are no abnormalities. Check the maillons that attach the lines to the risers are properly closed. Identify and order the A, B', B lines, the brake lines and the corresponding risers. Make sure that there are no ties or knots.

### 2.3 ASSEMBLY OF THE HARNESS

Correctly place the risers on the harness karabiners. The risers and lines should not have any twists and they should be in the right order. Check that the harness buckles are correctly locked.

### 2.4 TYPE OF HARNESS

The PEAK 3 has been certified on EN D with a harness according to the following rules:

- 2. DV LuftGerPV §1, Nr. 7 c (LTF)
- European Standard EN1651

- European Standard EN12491

This certification allows it to be flown with most of the harnesses on the market, even the ones that use cocoon.

We recommend that you adjust the distance of the chest strap according to the homologation from 46 cm between the harness carabiners. This adjustment will offer the top compromise between safety and feelings.

Incorrect adjustment can seriously affect the piloting of the glider. A distance, which is too wide between the karabiners, may provide more feedback but could affect the overall stability of the glider. A distance, which is too narrow between the karabiners, would provide less feedback but also increase any risk of developing a twist in during a large collapse.

Any change made to these specifications may affect the wing's performance and reactions. This would therefore effect the glider's configuration and would not conform to the homologation.

## 2.5 ASSEMBLY OF THE ACCELERATOR

The acceleration mechanism of the PEAK 3 works when you push with your feet on the accelerator bar. The accelerator bar should be installed correctly considering that each harness is different and that it is fit by you before flight.

Most harnesses are equipped with a pre-installed acceleration system. When fitting any accelerator system ensure that all preinstalled items within the harness, such as roller pulleys are used correctly. After fitting, take into account that you will have to adjust the length of the accelerator lines for correct use. This will vary according to the length of the pilot's legs!

We recommend that you try the correct fitting of the acceleration system

on equipment designed to do this, most paragliding schools have this sort of equipment.

## 2.6 INSPECTION AND WING INFLATION ON THE GROUND

Once you have checked all the equipment and made sure that the wind conditions are favourable, inflate your PEAK 3 as many times as necessary in order to become acquainted with the wing's behaviour. The PEAK 3 inflates easily and smoothly. An excess of energy is not necessary and the wing will inflate with minimum pressure on the harness when you move forward. This may be assisted by using the A lines. Do not pull on them, just lift to accompany the natural rising movement of the wing.

We recommend becoming familiar with the air intakes of the PEAK 3. Getting a slow pre-inflated before reaching a good air volume inside the glider is the best technique.

## 2.7 ADJUSTING THE BRAKES

The length of the main brake lines is adjusted at the factory to the length established during homologation. However, the length can be changed to adapt to the pilot's flying style. Nevertheless, we recommend that you fly for a while with these, set at the original length. This will allow you to become accustomed to the PEAK 3's original flying behaviour. If you then decide to change the length of the brake lines, untie the knot, slide the line through the brake link to the desired length, and strongly re-tie the knot. Qualified personnel should carry out this adjustment. You must ensure that this adjustment does not slow down the glider without any pilot input. Both brake lines should be symmetrical and measure the same length. The most recommended knots are the clove hitch knot or bowline knot.

When changing the brakes length, it is necessary to check that they do not act when the accelerator is used. When we accelerate the glider

rotates over the B riser and the trailing edge elevates. We must check that the brake is adjusted taking in consideration this extra length in acceleration.

### 3. THE FIRST FLIGHT

#### 3.1 CHOOSE THE RIGHT PLACE

We recommend that the first flight with your PEAK 3 is made on a smooth slope (a school slope) or in your usual flying area.

#### 3.2 PREPARATION

Repeat the procedures detailed in chapter 2 UNPACKING AND ASSEMBLY in order to prepare your equipment.

#### 3.3 FLIGHT PLAN

Draw out a flight plan before take-off in order to avoid possible flight errors.

#### 3.4 PRE-FLIGHT CHECK LIST

Once you are ready, but before you take-off, carry out another equipment inspection. Ensure correct installation of all equipment and that all lines are free of hindrances or knots. Check that the weather conditions are suited for your flying skills.

#### 3.5 WING INFLATION, CONTROL, AND TAKE-OFF

Smoothly and progressively inflate the wing (chapter 2.6 INSPECTION AND WING INFLATION ON THE GROUND). The PEAK 3 inflates easily and does not require excessive energy. It does not tend to over-take you, so the wing inflation phase is carried out without anguish. These take off characteristics provide a perfect control phase and enough time for the

pilot to decide whether to accelerate and take off.

Whenever the wind speed allows it, we recommend a reverse launch technique; this type of launch allows you to carry out a better visual check of the wing. The PEAK 3 is especially easy to control in this position in strong winds. However, wind speeds up to 25 to 30 km/h are considered strong and extra consideration should be given to any thought of flight.

Preparation and positioning of the wing on the take off is especially important. Choose a location which is appropriate for the direction of the wind. Position the paraglider as if it were part of a large circle, taking into account the shape of the canopy in flight. All this will assist in a trouble free take-off.

#### 3.6 LANDING

The PEAK 3 lands excellently, it transforms the wing speed into lift on the pilot's demand, allowing an enormous margin of error. You will not have to wrap the brake lines around your hand to get greater braking efficiency.

### 4. IN FLIGHT

#### 4.1 FLYING IN TURBULENCE

The PEAK 3's profile withstands different turbulent conditions thus allowing the best piloting and stability.. It reacts admirably in passive flight, thus offering a high level of safety in turbulent conditions. Nonetheless, the pilot always has to pilot according to the prevailing weather conditions. The pilot is the ultimate safety factor.

We recommend active piloting, making the necessary fine adjustments to keep the wing in control. He/she should stop braking to allow it to fly at the required wing speed after a correction is made.



Do not maintain any correction for longer than necessary (braked) this would cause the wing to enter into critical flying situation. Whenever necessary, control a situation, react to it and then re-establish the required speed.

#### 4.2 POSSIBLE CONFIGURATIONS

We recommend paying special attention on the flight test report made by the certification laboratory, and specially attention to the test pilot comments (Point 25 on the flight test report).

On the flight test report there is all necessary information to know how the new glider will react on each manoeuvre tested.

It is important to take into account that each size can have a different reaction on the same manoeuvre. Furthermore, the same size on maximum load or minimum load can experiment a different behaviour. Knowing how the glider is going to react when manoeuvring is the best way to face every possible situation with success.

We recommend that training to master these manoeuvres be carried out under the supervision of a competent school.

##### Asymmetric collapse

In spite of the great stability of the profile of the PEAK 3, heavy turbulent conditions may cause part of the wing to collapse asymmetrically. This usually happens when the pilot has not foreseen this possible reaction of the wing. When the wing is about to experience an asymmetric collapse the brake lines and the harness will transmit a loss of pressure to the pilot. To prevent the collapse from happening, pull the brake line corresponding to the compromised side of the wing, this will increase the angle of incidence. If the collapse does happen the PEAK 3 will not react violently, the turn tendency is very gradual and it is easily controlled.

Lean your body towards the side that is still flying in order to counteract the turn and to maintain a straight course, if necessary slightly slow down the same side. The collapse will normally open by itself but if that does not happen, pull completely on the brake line on the side, which has

collapsed (100%). Do this with a firm movement. You may have to repeat this operation to provoke the re-opening. Take care not to over-brake on the side that is still flying (turn control) and when the collapse has been solved; remember to let the wing recover its flying speed.

##### Symmetric collapse

In normal flying conditions the design of the PEAK 3 ensures that a symmetric collapse is quite improbable. The profile of the wing has been designed to widely tolerate extreme changes in the angle of incidence. A symmetric collapse may occur in heavy turbulent conditions, on entry or exit of strong thermals or lack of adapting the use of the accelerator to the prevailing air conditions. Symmetrical collapses usually re-inflate without the glider turning but you can symmetrically apply the brake lines with a quick deep pump to quicken the re-inflation. Release the brake lines immediately to recover optimum flight speed.

##### Negative spin

This configuration is out of the normal flight behaviour of the PEAK 3. Certain circumstances however, may provoke this configuration such as trying to turn when the wing is flying at very low speed (while heavily braking). It is not easy to give any recommendations about this situation since it varies depending on the circumstances. Remember that you should restore the relative air speed over the wing. To achieve this, progressively reduce the pressure on the brake lines and let the wing gain speed. The normal reaction would be a lateral surge with a turn tendency no greater than 360° before restoring to normal flight conditions.

##### Parachutal stall

The possibility of this happening has been eliminated by the design of the PEAK 3 and it is highly unlikely to happen on this paraglider. If it does happen, the feeling would be that the wing would not be advancing; you would feel a kind of instability and a lack of pressure on the brake lines, although the canopy would appear to be correctly inflated. The correct reaction would be to release the pressure on the brake lines and push the A lines forward or rather lean your body to any side WITHOUT PULLING

## ON THE BRAKE LINES.

### Deep Stall

The possibility of the PEAK 3 falling into this configuration during normal flight is very unlikely. This could happen if you are flying at a very low speed, whilst over steering in a number of manoeuvres and in turbulent conditions. To provoke a deep stall you have to take the wing to minimum flight speed by symmetrically pulling the brake lines, when you reach this point, continue pulling until you reach 100% and then hold. The glider will first fall behind you and then situate itself above you, rocking slightly, depending on how the manoeuvre was carried out. When you start to provoke a stall, be positive and do not doubt an instant. Do not release the brake lines when half way through the manoeuvre. This would cause the glider to surge violently forward with great energy and may result in the wing below the pilot. It is very important that the pressure on the brake lines is maintained until the wing is well established vertical above.

### Wing tangle

A wing tangle may happen after an asymmetric collapse, the end of the wing is trapped between the lines (Cravat). This situation could rapidly cause the wing to turn, although it depends on the nature of the tangle. The correction manoeuvres are the same as those applied in the case of an asymmetrical collapse, control the turn tendency by applying the opposite brake and lean your body against the turn. Then locate the line that reaches the stabiliser that is trapped between the other lines. This line has a different colour and belongs to the external lines of the B riser. Pull on this line until it is tense, this should help to undo the wing tangle. If you cannot undo the tangle, fly to the nearest possible landing spot, control the flying course with your body movements and a little pressure on the opposite brake. Be careful when attempting to undo a tangle if you are flying near a mountainside or near to other paragliders, you may lose control of the flying course and a collision may occur.

### Over handling

Most flying incidents are caused by wrong actions of the pilot, which chained one after another create abnormal flying configurations (a cascade of incidents). You must remember that over handling the wing will lead to critical levels of functioning. The PEAK 3 is designed always to try to recover normal flight by itself, do not try to over handle it. Generally speaking, the reactions of the wing, that follow over handling, are neither due to the input made or the intensity, but the length of time the pilot continues to over handle. You have to allow the profile to re-establish normal flight speed after any type of handling.

## 4.3 USING THE ACCELERATOR

The profile of the PEAK 3 has been designed to fly stable through its entire speed range. It is useful to accelerate when flying in strong winds or in extreme descending air. When you accelerate the wing, the profile becomes more sensitive to possible turbulence and closer to a possible frontal collapse. If you feel a pressure loss, you should stop pushing on the accelerator and pull slightly on the brake lines to increase the angle of incidence. Remember that you have to re-establish the flight speed after correcting the incidence.

It is NOT recommended to accelerate near to the mountainside or in very turbulent conditions. If necessary you will have to constantly adjust the movements and pressure on the accelerator whilst constantly adjusting the pressure applied to the brake lines. This balance is considered to be "active piloting."

## 4.4 FLYING WITHOUT BRAKE LINES

The PEAK 3 is a new generation 2 liner D class glider which allows piloting with the back risers. The back risers of the PEAK 3 have handles conceived to do that.

The PEAK 3 allows the classical piloting using only the breaks. However, piloting using the back risers is now a common technique that allows

reaching more control and precision over the wing while keeping the glider accelerated without utilizing the breaks.

#### 4.5 KNOTS IN FLIGHT

The best way to avoid these knots and tangles is to inspect the lines before you inflate the wing for take-off. If you notice a knot before take-off, immediately stop running and do not take off.

If you have taken off with a knot you will have to correct the drift by leaning on the opposite side of the knot and apply the brake line on that side too. You can gently pull on the brake line to see if the knot becomes unfastened or try to identify the line with the knot in it. The identified line can then be pulled to see if the knot undoes. Be very careful when trying to remove a knot. When there are knots in the lines or when they are tangled, do not pull too hard on the brake lines because there is a greater risk of the wing to stalling or negative turn being initiated

Before trying to remove a knot, make sure there are no pilots flying nearby and never try these manoeuvres near the mountainside. If the knot is too tight and you cannot remove it, carefully and safely fly to the nearest landing place.

## 5. LOSING HEIGHT

The knowledge of the different descent techniques is an important resource to use in certain situations. The most adequate descent method will depend on the particular situation.

We recommend that you learn to use these manoeuvres under the tuition of a competent school.

### 5.1 EARS

Big ears are a moderate descent method, reaching  $-3$  or  $-4$  m/s, speed reduces slightly between 3 and 5 km/h and piloting becomes limited. The angle of incidence and the surface wing load also increases. Push on the accelerator to restore the wing's horizontal speed and the angle of incidence.

To activate big ears take either the big ear pulley or outer most line on each A risers and simultaneously, smoothly pull them outward and downward. The wingtips will fold in. Let go of the lines and the big ears will re-inflate automatically. If they do not re-inflate, gently pull on one of the brake lines and then on the opposite one. We recommend that you re-inflate asymmetrically, not to alter the angle of incidence, more so if you are flying near the ground or flying in turbulence.

**Please, read this carefully: risk of full stall!!!**

The PEAK 3 has a relatively short brake travel and it should be noted that by reaching for the 4A3 line to make big ears it is possible to apply brake pressure without realising it. The same happens whilst pulling down the 4A3 line to make the ears. This can obviously lead to a significant speed decrease.

The PEAK 3 has a new high arch concept and applying ears induces more resistance. With this new arch, the ears don't stick but they do tend to "hang". Because of this, there will be more resistance, compared to ears on a standard glider.

The PEAK 3 is designed with little row, which is good in normal flight conditions. However on the other hand the glider could get into trouble when recovering normal speed if it is allowed ears and achieve an extreme angle of incidence.

These are 3 particularities, which together with turbulent conditions

could cause an unintentional stall.

The solution: big ears may still be applied but the pilot must be fully aware of the above-mentioned points and act accordingly. To avoid the stall simply use the accelerator halfway (this is sufficient) to increase the speed, which naturally rises the speed and decreases the angle of incidence. In this way you will maintain a safe margin and avoid this phenomenon. Take care not to pull the brakes while making the ears!!

## 5.2 3C3 TECHNIQUE

On the new generation paragliders the application of big ears can create a high degree of trailing turbulence which in turn creates a significant loss of airspeed. When big ears are applied to high aspect ratio wings the ears tend to “flap” which also adds to the amount of unwanted turbulence.

This new rapid descent technique was first discovered by our Niviuk team Pilots in 2009 while flying a competition prototype wing, which because of its line plan and high aspect ratio would not allow big ears to be applied. In fact big ears on wings with a profile of 2 lines can often prove difficult.

For all these reasons, we advise the use of the new 3C3 line descent technique. This technique ensures a rapid descent is achieved whilst forward wing speed is maintained and so the risk of a deep stall is eliminated.

### HOW?

Locate the 3C3 on your risers and as you would when applying big ears simply pull down firmly and smoothly until you see both wingtips drop back slightly. The forward speed of the glider speed will then reduce slightly, quickly stabilize and then increase. You will then experience a fall rate of around 5-6m/s. Controlled turning of the wing can easily

be maintained by weight shifting the harness, exactly the same as you would with big ears. We recommend the application of the speed bar whilst using this technique. To exit the manoeuvre release the lines as you would with big ears, control the pitch and the wing will quickly adopt normal flight.

This new technique allows a comfortable and controllable rapid descent without the risk of experiencing a “cravat” or “deep stall”. We advise you to first try this technique in smooth conditions with sufficient altitude above appropriate terrain.

## 5.3 B-LINE STALL

This manoeuvre is not possible with this wing.

## 5.4 SPIRAL DIVE

This is a more effective way for rapidly losing height. You have to know that, the wing can gain a lot of vertical speed and rotation speed (G force). This can cause a loss of orientation and consciousness (blac-kouts). These are the reasons why it is best to carry out this manoeuvre gradually so your capacity to resist the G forces increases and you will learn to fully appreciate and understand the manoeuvre. Always practice this manoeuvre when flying at high altitude.

To start the manoeuvre, first lean your bodyweight and pull the brake line to the side to which you are leaning. You can regulate the intensity of the turn by applying a little outside brake.

A paraglider flying at its maximum turn speed can reach -20 m/s, equivalent 70 km/h vertical speed and stabilize in a spiral dive from 15 m/s onwards.

These are the reasons why you should be familiar with and know how to carry out the exit methods.

To exit this manoeuvre you must progressively release the inside brake

and also momentarily apply outside brake. Whilst doing this you must also lean your bodyweight towards the outside. This exit manoeuvre has to be carried out gradually and with smooth movements so you can feel the pressure and speed changes at the same time.

The after effect of the exit manoeuvre is that the glider will rock briefly with lateral surge, depending on how the manoeuvre has been carried out.

Practice these movements at sufficient altitude and with moderation.

## 5.5 SLOW DESCENT TECHNIQUE

Using this technique (do not hurry to descend) we will fly normally, without forcing neither the material nor the pilot. It means looking for descending air areas and turn as it was a thermal – in order to descend. We have to avoid danger areas when looking for descent zones. Safety is the most important thing.

## 6. SPECIAL METHODS

### 6.1 TOWING

The PEAK 3 does not experience any problem when being towed. Only qualified personnel should handle the qualified equipment to carry out this operation. The wing has to be inflated in the same way as in normal flight.

### 6.2 ACROBATIC FLIGHT

Although the PEAK 3 has been tested by expert acrobatic pilots in extreme situations, it HAS NOT been designed for acrobatic flight and we DO NOT recommend continued use in this type of flight. Acrobatic flight is the youngest discipline in free flight. We consider acrobatic flight to be any form of piloting that is different to normal flight. To learn safely how

to master acrobatic manoeuvres you should attend lessons which are carried out by a qualified instructor and over water. Extreme manoeuvres take you and your wing to centrifugal forces that can reach 4 to 5g. Materials will wear more quickly than in normal flight. If you do practice extreme manoeuvres we recommend that you submit your wing to a line revision every six months.

## 7. FOLDING INSTRUCTIONS

The PEAK 3 has been equipped with the latest technologies SLE and RAM AIR INTAKE in the leading edge, SLE in the intrados and DRS in the trailing edge. In order to guarantee the correct preservation of the glider and to keep it in perfect flying condition, we recommend using always an appropriate folding method.

The PEAK 3 is delivered with the N-Kare bag. An easy folding bag that assists you during the folding process and also can be used as a base surface which protects the glider against damage.

More info at <http://www.niviuk.com/accessories.asp?id=JNKQKNP4>

When the PEAK 3 is folded, the Kargo rucksack is ready to transport it.

## 8. CARE AND MAINTENANCE

### 8.1 MAINTENANCE

Careful maintenance of your equipment will ensure continued performance. The fabric and the lines do not need to be washed, if they become dirty, clean them with a soft damp cloth.

If your wing gets wet with salty water, immerse it in fresh water and dry it away from direct sunlight. The sunlight may damage the materials of your wing and cause premature aging. Once you have landed, do not leave the

wing in the sun, store it properly.

If you use your wing in a sandy area, try to avoid the sand from entering through the cell openings of the leading edge. If sand is inside the wing, remove it before folding.

If it gets wet of sea water, you should submerge it into fresh water and let it dry far away from the sun.

## 8.2 STORAGE

It is important that the wing is correctly folded when stored. Store your flying equipment in a cool, dry place away from solvents, fuels or oils. It is not advisable to store your flying equipment in the trunk of your car. Temperatures inside a car parked in the sunlight, can be very high. Inside a rucksack and in the sunlight temperatures can reach 60°C. Weight should not be laid on top of the equipment.

If the flying gear is stored with organic material (such as leaves or insects) inside, the chemical reaction can cause irreparable damage.

## 8.3 CHECKS AND CONTROLS

Always check all the flying equipment before every flight.

In spite of providing much more benefits to the pilots, 2 liner gliders need more care and control of the calibration. The PEAK 3 mechanic and UV resistance are one of the highest for this type of line. With a 2 liner glider every little variation on the calibration of the lines has a directly effect on the performance of the wing.

We recommend checking the lines calibration after the first 30 hours +/- of flight. This examination must be taken apart from the regular checking every 100 hours of use or every two years (whichever happens first).

Why is it necessary?

Thanks to the experience acquired with the 2 liner gliders on the previous seasons (Icepeak 5 and Icepeak 6) and to the incessant control task of our R&D team over the Abac Team gliders, we are capable now of predicting how to take appropriately care of this kind of lines to assure the best performance of the profile. Following the controls recommended the glider will keep its original features for longer.

The conditions of the flight zone, the climate area, temperature, humidity, wing load, ...cause a different impact over the wing. That's why the calibration would be set taking in consideration these factors. Only qualified professionals should realize it. Do not modify the wing considering the calibration required for other pilots before being sure that it is really necessary for us.

## 8.4 REPAIRS

If the wing is damaged, you can temporarily repair it by using the rip stop that you'll find in the repair kit, so long as no stitches are involved in the tear. Any other type of tear must be repaired in a specialized repair shop or by qualified personnel. Do not accept a home repair.

## 9. SAFETY AND RESPONSIBILITY

It is well known that paragliding is considered a high-risk sport, where safety depends on the person who is practising it.

Wrong use of this equipment can cause severe injuries to the pilot, even death. Manufacturers and dealers are not responsible for any act or accident that may be the result of practicing this sport.

You must not use this equipment if you are not trained. Do not take advice or accept any informal training from anyone who is not properly qualified

as a flight instructor.

## 10. GUARANTEE

The entire equipment and components are covered by a 2 year guarantee for any manufacture fault.

The guarantee does not cover misuse or abnormal use of the materials.

## 11. TECHNICAL DATA

### 11.1 TECHNICAL DATA

PEAK 3			19	21	21 X-ALPS	23	23 X-ALPS	25	25 X-ALPS	27
CELLS	NUMBER		69	69	69	69	69	69	69	69
	CLOSED		8	8	8	8	8	8	8	8
	BOX		27	27	27	27	27	27	27	27
FLAT	AREA	M <sup>2</sup>	18,70	21	21	23	23	25	25	27
	SPAM	M	11,03	11,68	11,68	12,22	12,22	12,75	12,75	13,25
	ASPECT RATIO		6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
PROJECTED	AREA	M <sup>2</sup>	15,80	17,75	17,75	19,43	19,43	21,12	21,12	22,81
	SPAM		8,77	9,28	9,28	9,71	9,71	10,14	10,14	10,53
	ASPECT RATIO		4,86	4,86	4,86	4,86	4,86	4,86	4,86	4,86
FLATTENING		%	15%	15%	15%	15%	15%	15%	15%	15%
CORD	MAXIMUM	M	2,08	2,21	2,21	2,31	2,31	2,41	2,41	2,5
	MINIMUM	M	0,43	0,45	0,45	0,47	0,47	0,49	0,49	0,51
	AVERAGE	M	1,69	1,79	1,79	1,88	1,88	1,96	1,96	2,03
LINES	TOTAL METERS	M	172	188	188	193	193	201	201	209
	HEIGHT	M	6,62	7,01	7,01	7,33	7,33	7,65	7,65	7,95
	NUMBER		184	184	184	184	184	184	184	184
	MAIN		3/1/3	3/1/3	3/1/3	3/1/3	3/1/3	3/1/3	3/1/3	3/1/3
RISERS	NUMBER	3	A/B/B	A/B/B	A/B/B	A/B/B	A/B/B	A/B/B	A/B/B	A/B/B
	TRIMS		NO	NO	NO	NO	NO	NO	NO	NO
	ACCELERATOR	M/M	140	140	140	150	150	150	150	150
TOTAL WEIGHT	MINIMUM	KG	60	70	70	80	80	90	90	105
IN FLIGHT	MAXIMUM	KG	75	85	85	97	97	110	110	125
GLIDER WEIGHT		KG	4,9	5,3	4,2	5,5	5,5	5,7	4,26	5,85
CERTIFICATION		EN / LTF	-	D	D	D	D	D	D	D



## 11.2 MATERIALS DESCRIPTION

### PEAK 3 SERIAL

CANOPY	FABRIC CODE	SUPPLIER
UPPER SURFACE	40 9017 E77	PORCHER IND (FRANCE)
BOTTOM SURFACE	N20DMF	DOMINICO TEX CO (KOREA)
RIBS WITHOUT LINES	9017 E29	PORCHER IND (FRANCE)
RIBS WITH LINES	30DFM	DOMINICO TEX CO (KOREA)
DIAGONALS	9017 E29	DOMINICO TEX CO (KOREA)
LOOPS	LKI - 10	KOLON IND. (KOREA)
REINFORCEMENT LOOPS	SOFT DACRON	D-P (GERMANY)
TRAILING EDGE REINFORCEMENT	DACRON	D-P (GERMANY)
RIBS REINFORCEMENT	NYLON STICK	R.P.CHINA
THREAD	SERAFIL 60	AMAN (GERMANY)

SUSPENSION LINES	FABRIC CODE	SUPPLIER
UPPER CASCADES	DC - 40	LIROS GMHB (GERMANY)
UPPER CASCADES	DC - 60	LIROS GMHB (GERMANY)
UPPER CASCADES	VL - 12100-50	COUSIN (FRANCE)
UPPER CASCADES	VL - 16140-70	COUSIN (FRANCE)
UPPER CASCADES	VL - 12240-115	COUSIN (FRANCE)
MIDDLE CASCADES	DC - 60	LIROS GMHB (GERMANY)
MIDDLE CASCADES	VL - 12100-50	COUSIN (FRANCE)
MIDDLE CASCADES	VL - 16140-70	COUSIN (FRANCE)
MIDDLE CASCADES	VL - 12240-115	COUSIN (FRANCE)
MIDDLE CASCADES	VL - 16330-145	COUSIN (FRANCE)
MIDDLE CASCADES	VL - 12470-200	COUSIN (FRANCE)
MAIN	VL - 16140-70	COUSIN (FRANCE)
MAIN	VL - 16330-145	COUSIN (FRANCE)
MAIN	VL - 12470-200	COUSIN (FRANCE)
MAIN	VL - 12950-405	COUSIN (FRANCE)
MAIN BREAK	TNL - 280	TEIJIM LIMITED (JAPAN)
THREAD	SERAFIL 60	AMAN (GERMANY)

RISERS	FABRIC CODE	SUPPLIER
MATERIAL	3455	COUSIN (FRANCE)
COLOR INDICATOR	PAD	TECNI SANGLES (FRANCE)
THREAD	V138	COATS (ENGLAND)
MAILLONS	MRDI03.0 S12	PEGUET (FRANCE)
PULLEYS	PY - 1304-2	ANSUNG PRECISION (KOREA)
PULLEYS	467	HARKEN (USA)

## 11.2 MATERIALS DESCRIPTION

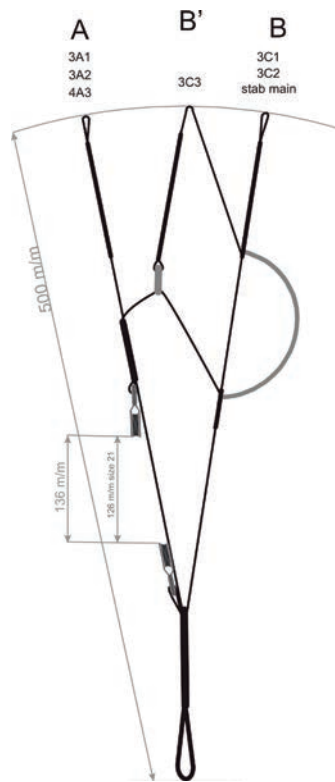
### PEAK 3 X-ALPS

CANOPY	FABRIC CODE	SUPPLIER
UPPER SURFACE		
FOR LEADING EDGE	9017 E77	PORCHER IND (FRANCE)
UPPER SURFACE		
FOR THE REST	70000 E3H	PORCHER IND (FRANCE)
BOTTOM SURFACE	70000 E3H	PORCHER IND (FRANCE)
RIBS	70000 E91	PORCHER IND (FRANCE)
DIAGONALS	70000 E91	PORCHER IND (FRANCE)
LOOPS	LKI - 10	KOLON IND. (KOREA)
REINFORCEMENT LOOPS	SOFT DACRON	D-P (GERMANY)
TRAILING EDGE REINFORCEMENT	DACRON	D-P (GERMANY)
RIBS REINFORCEMENT	NYLON STICK	R.P.CHINA
THREAD	SERAFIL 60	AMAN (GERMANY)

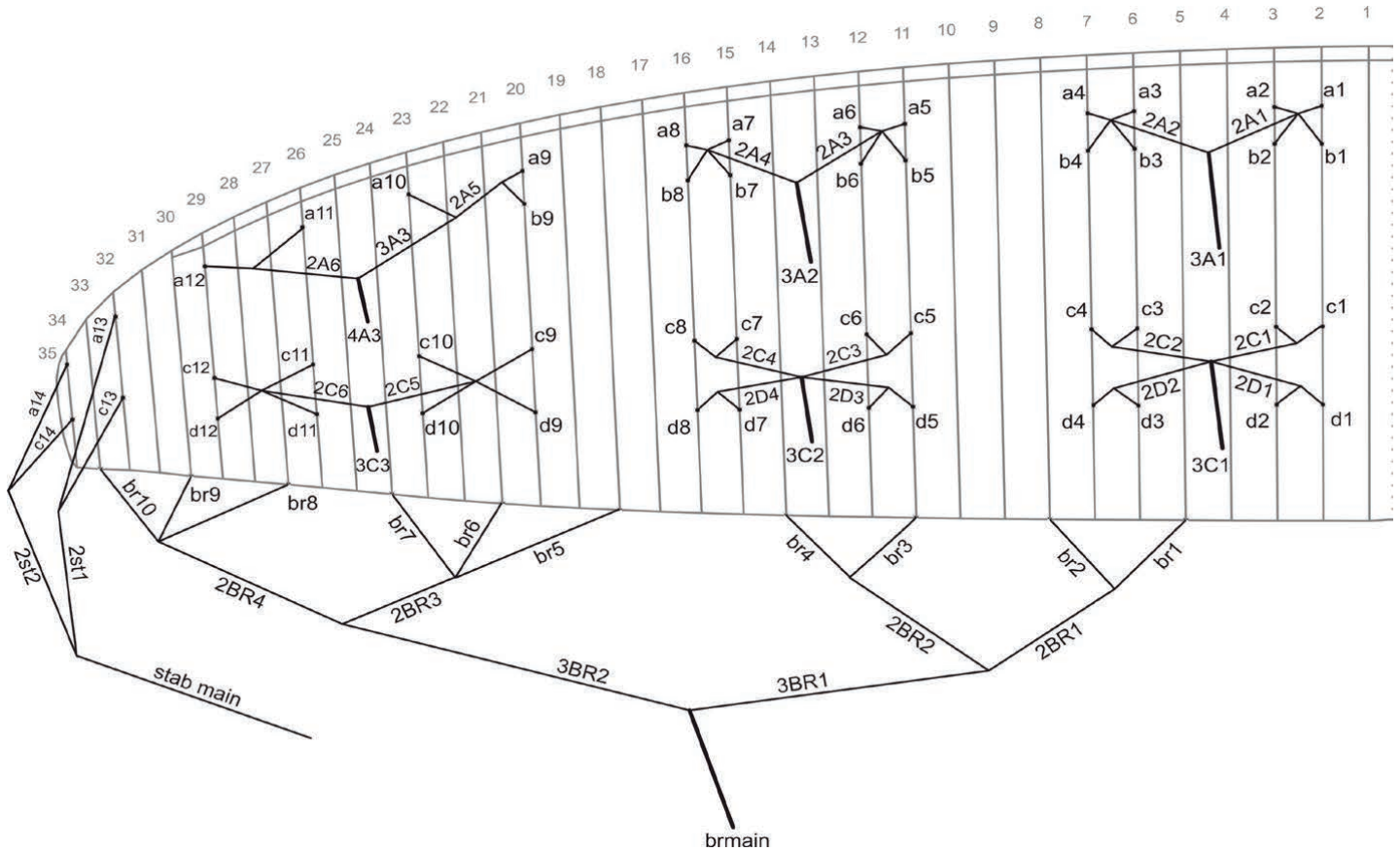
SUSPENSION LINES	FABRIC CODE	SUPPLIER
UPPER CASCADES	DC - 40	LIROS GMHB (GERMANY)
UPPER CASCADES	DC - 60	LIROS GMHB (GERMANY)
UPPER CASCADES	VL - 12100-50	COUSIN (FRANCE)
UPPER CASCADES	VL - 16140-70	COUSIN (FRANCE)
UPPER CASCADES	VL - 12240-115	COUSIN (FRANCE)
MIDDLE CASCADES	DC - 60	LIROS GMHB (GERMANY)
MIDDLE CASCADES	VL - 12100-50	COUSIN (FRANCE)
MIDDLE CASCADES	VL - 16140-70	COUSIN (FRANCE)
MIDDLE CASCADES	VL - 12240-115	COUSIN (FRANCE)
MIDDLE CASCADES	VL - 16330-145	COUSIN (FRANCE)
MIDDLE CASCADES	VL - 12470-200	COUSIN (FRANCE)
MAIN	VL - 16140-70	COUSIN (FRANCE)
MAIN	VL - 16330-145	COUSIN (FRANCE)
MAIN	VL - 12470-200	COUSIN (FRANCE)
MAIN	VL - 12950-405	COUSIN (FRANCE)
MAIN BREAK	TNL - 280	TEIJIM LIMITED (JAPAN)

THREAD	SERAFIL 60	AMAN (GERMANY)
RISERS	FABRIC CODE	SUPPLIER
MATERIAL	3455	COUSIN (FRANCE)
COLOR INDICATOR	PAD	TECNI SANGLES (FRANCE)
THREAD	V138	COATS (ENGLAND)
MAILLONS	MRDI03.0 S12	PEGUET (FRANCE)
PULLEYS	PY - 1304-2	ANSUNG PRECISION (KOREA)
PULLEYS	467	HARKEN (USA)

### 11.3 RISERS ARRANGEMENT



# 11.4 LINE PLAN



### 11.5 LENGHTS PEAK 3 21

NIVIUK PEAK 3 3 21					
LINES HEIGHT M/M					
	A	B	C	D	BR
1	6515	6481	6486	6581	7216
2	6470	6430	6428	6526	6802
3	6421	6383	6381	6481	6582
4	6431	6397	6406	6503	6567
5	6358	6324	6332	6423	6473
6	6321	6286	6288	6381	6355
7	6271	6236	6250	6341	6456
8	6282	6256	6276	6364	6413
9	6157	6132	6181	6269	6429
10	6072		6067	6157	6609
11	6002		6000	6072	
12	6005		6035	6094	
13	5721		5738		
14	5635		5676		

RISERS LENGHT M/M				
	A	B'	B	
	500	500	500	STANDARD
	360	460	500	ACCELERATED

### 11.6 LENGHTS PEAK 3 23

NIVIUK PEAK 3 23					
LINES HEIGHT M/M					
	A	B	C	D	BR
1	6836	6800	6805	6905	7610
2	6790	6757	6745	6848	7178
3	6739	6699	6697	6803	6950
4	6750	6714	6723	6826	6937
5	6675	6640	6640	6755	6844
6	6636	6600	6595	6712	6722
7	6583	6548	6552	6673	6830
8	6595	6569	6580	6697	6788
9	6466	6440	6480	6581	6806
10	6376		6362	6465	6994
11	6303		6293	6377	
12	6307		6329	6401	
13	6018		6036		
14	5928		5972		

RISERS LENGHT M/M				
	A	B'	B	
	500	500	500	STANDARD
	350	460	500	ACCELERATED

### 11.7 LENGHTS PEAK 3 25

NIVIUK PEAK 3 25					
LINES HEIGHT M/M					
	A	B	C	D	BR
1	7159	7121	7126	7229	7922
2	7111	7067	7064	7170	7472
3	7060	7018	7016	7125	7234
4	7072	7035	7043	7149	7219
5	6996	6958	6966	7091	7120
6	6956	6917	6919	7046	6993
7	6903	6865	6879	7003	7104
8	6916	6887	6909	7029	7060
9	6789	6762	6809	6916	7078
10	6696		6686	6794	7275
11	6620		6613	6701	
12	6624		6651	6726	
13	6313		6331		
14	6218		6264		

RISERS LENGHT M/M				
	A	B'	B	
	500	500	500	STANDARD
	350	460	500	ACCELERATED


### 11.8 LENGHTS PEAK 3 27


NIVIUK PEAK 3 27					
LINES HEIGHT M/M					
	A	B	C	D	BR
1	7459	7420	7417	7524	8246
2	7409	7364	7352	7463	7779
3	7358	7314	7304	7417	7532
4	7371	7332	7332	7443	7518
5	7293	7254	7254	7358	7416
6	7252	7212	7206	7311	7285
7	7197	7158	7165	7267	7401
8	7211	7181	7195	7294	7355
9	7072	7043	7093	7193	7375
10	6976		6965	7066	7580
11	6897		6890	6971	
12	6901		6929	6996	
13	6577		6595		
14	6478		6525		

RISERS LENGHT M/M				
	A	B'	B	
	500	500	500	STANDARD
	350	460	500	ACCELERATED

## 11.9 CERTIFICATION SPECIMEN TEST

**para-test.com**  
  
 Air Turquoise SA  
 Rte du Pré-au-Comte 8 | CH-1840 Villeneuve  
 tel. +41 21 965 65 65 | mobile +41 79 202 52 30  
 info@para-test.com

**AIR TURQUOISE SA certified by**  
  


**Class: D**  
 In accordance with EN standards 926-2:2005 & 926-1:2006: **PG\_0710.2013**  
 Date of issue (DMY): **17. 05. 2013**  
 Manufacturer: **Niviuk Gliders / Air Games S.L.**  
 Model: **Peak 3 21**  
 Serial number:

**Configuration during flight tests**

Paraglider		Accessories	
Maximum weight in flight (kg)	85	Range of speed system (cm)	14
Minimum weight in flight (kg)	70	Speed range using brakes (km/h)	13
Glider's weight (kg)	5.7	Range of trimmers (cm)	0
Number of risers	2	Total speed range with accessories (km/h)	33
Projected area (m2)	17.75		

Harness used for testing (max weight)		Inspections (whichever happens first)	
Harness type	ABS	every 24 months or every 100 flying hours	
Harness brand	Niviuk Gliders	Warning! Before use refer to user's manual	
Harness model	Hamak 2 M	Person or company having presented the glider for testing: <b>None</b>	
Harness to risers distance (cm)	49		
Distance between risers (cm)	46		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24  
 A A B C A A A A B B A A A D A A A C A A A A A A

**para-test.com**  
  
 Air Turquoise SA  
 Rte du Pré-au-Comte 8 | CH-1840 Villeneuve  
 tel. +41 21 965 65 65 | mobile +41 79 202 52 30  
 info@para-test.com

**AIR TURQUOISE SA certified by**  
  


**Class: D**  
 In accordance with EN standards 926-2:2005 & 926-1:2006: **PG\_0733.2013**  
 Date of issue (DMY): **30. 05. 2013**  
 Manufacturer: **Niviuk Gliders / Air Games S.L.**  
 Model: **Peak 3 21 X-Alps**  
 Serial number:

**Configuration during flight tests**

Paraglider		Accessories	
Maximum weight in flight (kg)	85	Range of speed system (cm)	14
Minimum weight in flight (kg)	70	Speed range using brakes (km/h)	13
Glider's weight (kg)	4.4	Range of trimmers (cm)	0
Number of risers	2	Total speed range with accessories (km/h)	33
Projected area (m2)	17.75		

Harness used for testing (max weight)		Inspections (whichever happens first)	
Harness type	ABS	every 24 months or every 100 flying hours	
Harness brand	Niviuk Gliders	Warning! Before use refer to user's manual	
Harness model	Hamak 2 M	Person or company having presented the glider for testing: <b>None</b>	
Harness to risers distance (cm)	49		
Distance between risers (cm)	46		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24  
 A A B C A A A A B B A A A D A A A C 0 A A A A A



AIR TURQUOISE SA certified by



Class: **D**

In accordance with EN standards 926-2:2005 & 926-1:2006: **PG\_0682.2013**

Date of issue (DMY): **28. 03. 2013**

Manufacturer: **Niviuk Gliders / Air Games S.L.**

Model: **Peak 3 23**

Serial number:

### Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	97	Range of speed system (cm)	15
Minimum weight in flight (kg)	80	Speed range using brakes (km/h)	15
Glider's weight (kg)	5.5	Range of trimmers (cm)	0
Number of risers	2	Total speed range with accessories (km/h)	33
Projected area (m2)	19.43		

Harness used for testing (max weight)		Inspections (whichever happens first)	
Harness type	ABS	every 24 months or every 100 flying hours	
Harness brand	Niviuk Gliders	Warning! Before use refer to user's manual	
Harness model	Hamak 2 M	Person or company having presented the glider for testing: <b>None</b>	
Harness to risers distance (cm)	49		
Distance between risers (cm)	46		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24  
 C A B C A A A A B C A C A D A A A C A A A A A A



AIR TURQUOISE SA certified by



Class: **D**

In accordance with EN standards 926-2:2005 & 926-1:2006: **PG\_0713.2013**

Date of issue (DMY): **23. 05. 2013**

Manufacturer: **Niviuk Gliders / Air Games S.L.**

Model: **Peak 3 23 X-Alps**

Serial number:

### Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	97	Range of speed system (cm)	15
Minimum weight in flight (kg)	80	Speed range using brakes (km/h)	15
Glider's weight (kg)	0	Range of trimmers (cm)	0
Number of risers	2	Total speed range with accessories (km/h)	33
Projected area (m2)	19.43		

Harness used for testing (max weight)		Inspections (whichever happens first)	
Harness type	ABS	every 24 months or every 100 flying hours	
Harness brand	Niviuk Gliders	Warning! Before use refer to user's manual	
Harness model	Hamak M	Person or company having presented the glider for testing: <b>None</b>	
Harness to risers distance (cm)	49		
Distance between risers (cm)	46		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24  
 C A B C A A A A B C A C A D A A A A 0 A A A A A





AIR TURQUOISE SA certified by



Class: **D**

In accordance with EN standards 926-2:2005 & 926-1:2006: **PG\_0690.2013**

Date of issue (DMY): **28. 03. 2013**

Manufacturer: **Niviuk Gliders / Air Games S.L.**

Model: **Peak 3 25**

Serial number:

### Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	110	Range of speed system (cm)	15
Minimum weight in flight (kg)	90	Speed range using brakes (km/h)	15
Glider's weight (kg)	0	Range of trimmers (cm)	0
Number of risers	2	Total speed range with accessories (km/h)	33
Projected area (m2)	21.12		

Harness used for testing (max weight)		Inspections (whichever happens first)
Harness type	ABS	every 24 months or every 100 flying hours
Harness brand	Niviuk Gliders	Warning! Before use refer to user's manual
Harness model	Hamak M	Person or company having presented the glider for testing: <b>None</b>
Harness to risers distance (cm)	49	
Distance between risers (cm)	46	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24  
 C A B C A A A A B C A A A D A A D C 0 A A A A A



AIR TURQUOISE SA certified by



Class: **D**

In accordance with EN standards 926-2:2005 & 926-1:2006: **PG\_0736.2013**

Date of issue (DMY): **11. 06. 2013**

Manufacturer: **Niviuk Gliders / Air Games S.L.**

Model: **Peak 3 25 X-Alps**

Serial number:

### Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	110	Range of speed system (cm)	15
Minimum weight in flight (kg)	90	Speed range using brakes (km/h)	15
Glider's weight (kg)	4.65	Range of trimmers (cm)	0
Number of risers	2	Total speed range with accessories (km/h)	33
Projected area (m2)	21.12		

Harness used for testing (max weight)		Inspections (whichever happens first)
Harness type	ABS	every 24 months or every 100 flying hours
Harness brand	Niviuk Gliders	Warning! Before use refer to user's manual
Harness model	Hamak 2 M	Person or company having presented the glider for testing: <b>None</b>
Harness to risers distance (cm)	49	
Distance between risers (cm)	46	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24  
 C A B C A A A A B C A A A D A A D C 0 A A A A A



AIR TURQUOISE SA certified by



Class: **D**

In accordance with EN standards 926-2:2005 & 926-1:2006: **PG\_0734.2013**

Date of issue (DMY): **11. 06. 2013**

Manufacturer: **Niviuk Gliders / Air Games S.L.**

Model: **Peak 3 27**

Serial number:

### Configuration during flight tests

<b>Paraglider</b>		<b>Accessories</b>	
Maximum weight in flight (kg)	<b>125</b>	Range of speed system (cm)	<b>15</b>
Minimum weight in flight (kg)	<b>105</b>	Speed range using brakes (km/h)	<b>13</b>
Glider's weight (kg)	<b>6.1</b>	Range of trimmers (cm)	<b>0</b>
Number of risers	<b>2</b>	Total speed range with accessories (km/h)	<b>35</b>
Projected area (m2)	<b>22.81</b>		
<b>Harness used for testing (max weight)</b>		<b>Inspections (whichever happens first)</b>	
Harness type	<b>ABS</b>	every 24 months or every 100 flying hours	
Harness brand	<b>Niviuk Gliders</b>	Warning! Before use refer to user's manual	
Harness model	<b>Hamak L</b>	Person or company having presented the glider for testing: <b>None</b>	
Harness to risers distance (cm)	<b>49</b>		
Distance between risers (cm)	<b>46</b>		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

C A B C A A A A B C A A B D A A C 0 A A D A A

