

# LEVITAZ Kitefoils

## Manual



**Levitaz**<sup>®</sup>  
KITEFOILS

## Barcode labels

For the mast:



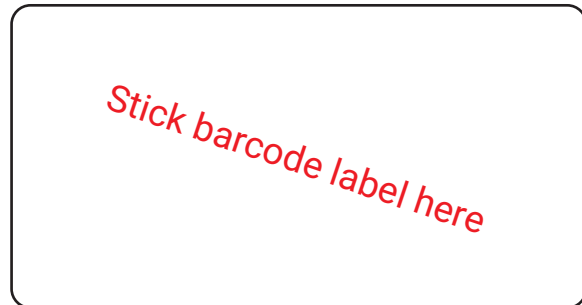
For the frontwing:



For the rearwing:



For the fuselage:



## Table of Contents

---

<b>1</b>	<b>INTRODUCTION .....</b>	<b>4</b>
<b>2</b>	<b>SAFETY INSTRUCTIONS.....</b>	<b>5</b>
<b>3</b>	<b>APPLICATION OF THE PRODUCT AND TECHNICAL DATA.....</b>	<b>6</b>
3.1	Connection to the board .....	7
3.1.1	Mast for boards with tuttle box connection .....	7
<b>4</b>	<b>KITEFOIL DESCRIPTION .....</b>	<b>9</b>
<b>5</b>	<b>KITEFOIL INSTALLATION INSTRUCTIONS.....</b>	<b>10</b>
<b>6</b>	<b>DISASSEMBLY OF THE KITEFOIL.....</b>	<b>13</b>
<b>7</b>	<b>PACKAGING AND STORAGE .....</b>	<b>16</b>
<b>8</b>	<b>MAINTENANCE AND REPAIR INFORMATION.....</b>	<b>17</b>
8.1	Maintenance .....	17
8.2	Repair information.....	17
<b>9</b>	<b>DISPOSING OF USED PARTS.....</b>	<b>17</b>
<b>10</b>	<b>ORDERING REPLACEMENT PARTS.....</b>	<b>18</b>
	<b>CONTACT INFORMATION .....</b>	<b>18</b>

# 1 INTRODUCTION

---


## General information

The Levitaz kitefoil is a hydrofoil that attaches to the bottom of a kite board and lifts the board out of the water as it is pulled by the kite. Because the Levitaz kitefoil reduces the drag on the board as it moves across the water, a user can often achieve a greater speed with the kite board.

This manual contains important information about the proper use of the product and its safety. Follow these instructions carefully and precisely. This helps to reduce the risk of damage to the product or personal injury.

- This manual is part of the product.
- Keep this manual in a safe place for the entire life of the product.
- If the product is transferred to a new owner, this manual and all associated documents must be passed on to the new owner.

The meaning and appearance of safety symbols used in this manual are as follows:

 <p><b>WARNING!</b></p>	<p>The text after the signal word <b>"WARNING!"</b> contains important information, which must be followed to avoid serious personal injury or death.</p>
--	---

<p><b>NOTICE!</b></p>	<p>The text after the signal word <b>"NOTICE!"</b> contains information, which must be followed to avoid damage to the product.</p>
-----------------------	---

Because there are inherent risks of injury in the use of this product and kite boarding in general, even following all of the next instructions will not eliminate the risk of injury to you or others. Geislinger GmbH is not responsible for injuries or damage to the kitefoil due to misuse or any use not consistent with the "Safety instruction".

## 2 SAFETY INSTRUCTIONS



### WARNING!

Kite boarding is an inherently dangerous activity that can result in serious injury or death to the user or people in proximity to the user, with or without a Levitaz kitefoil. These risks include drowning or being hit by the board if the user loses control of it. The Levitaz kitefoil may increase the risk of some injuries to users or bystanders by adding additional structure to the board that may strike users or bystanders; by increasing the speed at which the kite board can be operated, or by changing the manner in which an out-of-control kite board reacts as it contacts water or ground during an out-of-control situation. The components of the Levitaz kitefoil can have sharp edges. For users and any other personnel involved there is a danger of injury while the components are being assembled and while the kitefoil is in use. The use of this product and participation in the sport involves inherent risk of injury or death. To reduce the risks:

- Read the manual and warning label on product for important information about the installation, care and maintenance of the kitefoil before use.
- Always wear an approved life and protection vest.
- Always wear a suitable helmet.
- For use by trained (iko-level 4: advanced) personnel only.
- This product is designed for use on water only.
- Surf under control and do not use at speeds that exceed the skills of the rider.
- Do not use in shallow water or near the shore, docks, pylons, swimmers or other activities.
- The users are responsible for their safety and the safety of those around them.
- Components in this product are subject to the random forces of natural elements and are subject to irregular wear.
- Use only original Levitaz replacement parts.
- It is the user's responsibility to inspect equipment for wear before every use.
- It is the user's responsibility to repair and maintain this product.
- The use of damaged products is not allowed.
- Before riding ensure that the screws are tightened with the tightening torque that is described in this manual.
- Geislinger GmbH is not responsible for injuries or damage to the kitefoil due to misuse or any use not consistent with these instructions.
- Do not use this product under the influence of alcohol or drugs.
- Minimum age of rider: 18 years

Failure to follow these instructions may increase the risk of serious personal injury or death, damage to the product or both.

### 3 APPLICATION OF THE PRODUCT AND TECHNICAL DATA

The product will only function properly if it has been mounted according to the instructions contained in this manual. Carefully follow these instructions.



**WARNING!**

This product is designed for use on water and by trained personnel (over 18 years) only.

Failure to do so may cause serious personal injury, damage to the product or both.

**Material:** carbon; steel;

The Levitaz kitefoil can be used with any board that has 4 metric bolt threads or a deep tuttle box (see figure 3.2). The standard mast has 4 through holes suitable for max. M8 bolts. The mounting surface of the mast is 90 mm wide and 165 mm long. See fig. 3.1.

**We assume that the 4 metric bolt threads preexist for the attachment of the board fin and that the kitefoil will be attached in place of the fin.**

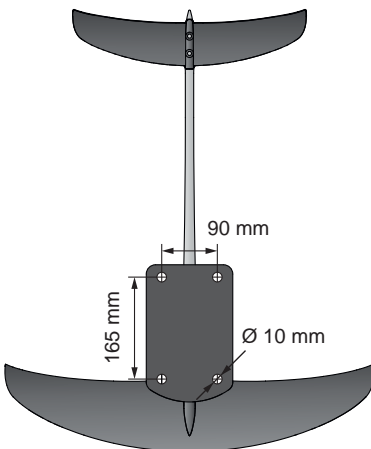


Figure 3.1: Bolt connection to the board/Symbol photo

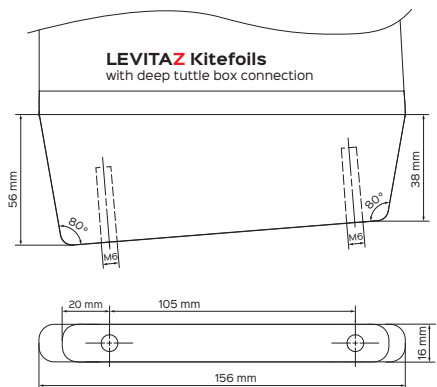


Figure 3.2: Deep tuttle box connection to the board/Symbol photo

**The connection bolts between the kitefoil and the board are not delivered by Levitaz. Please make sure to use stainless bolts provided with a minimum strength class 70.**

### 3.1 Connection to the board

- Check that the board and the kitefoil are lying flat together. See figure 3.3.
- The bolt contact surface (between bolt and mast) must be at least 20 mm in diameter. Levitaz recommends using washers to prevent wear. See figure 3.4.

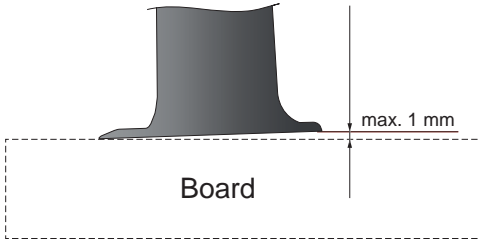


Figure 3.3: Permissible unevenness

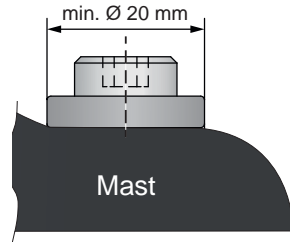


Figure 3.4: washer



**WARNING!**

The user is responsible for compatibility with the board. Do not exceed the maximum permissible unevenness of 1mm between the kitefoil and the board.

Failure to do so may result in the product not operating properly, can reduce its service life, and possibly result in injury to the user or others.

#### 3.1.1 Mast for boards with tuttle box connection

The deep tuttle box is not standardized. Please check always dimensions. See fig. 3.2.

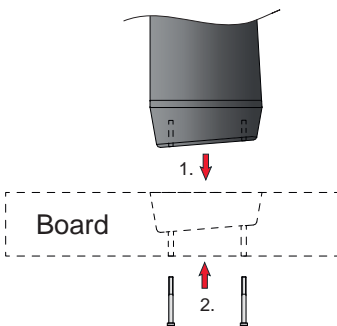


Figure 3.5: Mast for tuttle box

1. Insert the mast in the tuttle box into the board. Note that the inclined surfaces from the mast and the tuttle box fit together and are clean of any objects like sand.
2. Connect the mast with suitable M6 bolts from the front side. Don't over torque the bolts. The recommended tightening torque is  $9 \pm 1$  Nm. Keep the material of the board in mind.

If a kite board manufacturer's warranty is affected by alterations to the board, you should consult their warranty information before the installation of the kitefoil.

**Recommended footstraps position used by our professional riders:**

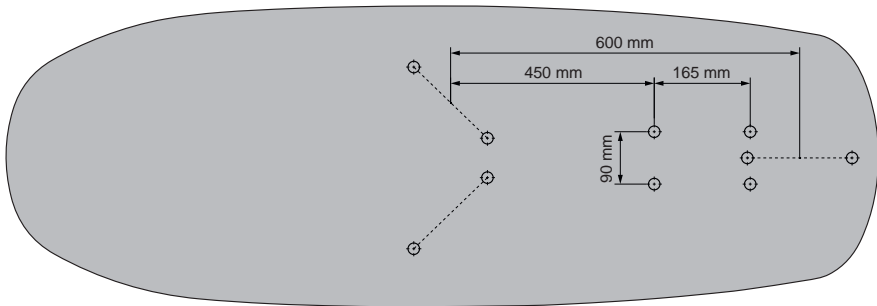


Figure 3.6: Recommended footstraps position on the board



## 4 KITEFOIL DESCRIPTION

The standard foil consist of 7 parts: The mast (1), the frontwing (2), the rearwing (3), the fuselage (4), the plate (5) and the screws (6+7). While the wings and the mast are constructed from composite material, the fuselage and the plate are made of saltwater-resistant steel. This allows for very slim designs, enabling extremely low resistance under water. See figure 4.1.

The fuselage which passes through the mast, combines the frontwing and the rearwing with the mast. The connecting plate ensures a torque rigid connection between the frontwing and the mast. See Figure 4.2.



Figure 4.1: Symbol photo of set parts



Figure 4.2: Symbol photo

### Part list of foil set:

No.	Designation
1	Mast
2	Frontwing
3	Rearwing
4	Fuselage
5	Plate
6	4 Screws M6x20 (long)
7	2 Screws M6x14 (short)
	Carrier bag
	Cover set
	Mounting tool
	Anti-seize paste (Loctite)
	Manual
	Warning label

## 5 KITEFOIL INSTALLATION INSTRUCTIONS

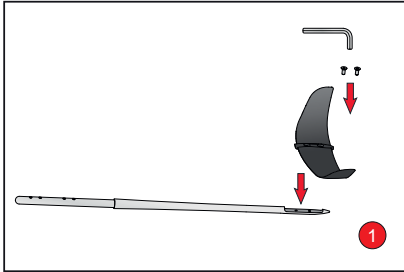


Figure 5.1

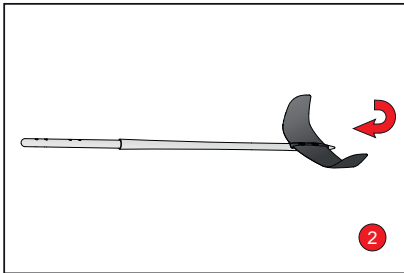


Figure 5.2



Figure 5.3

1. Place the fuselage with the recess facing upwards. Put the rearwing onto the recess of the fuselage. Tighten both screws M6x14 to **9 ±1 Nm tightening torque** with the Levitaz mounting tool.

2. Turn the fuselage with the rearwing 180°.

3. Now put the fuselage (rearwing tips facing downwards) into the through hole of the mast. Push it until the fuselage touches the end and align the fuselage and the mast screw holes.



Figure 5.4

4. Hold the fuselage with one hand and attach the frontwing to it with the other hand. Push it together and align the fuselage and the frontwing screw holes.



Figure 5.5

5. Place the plate onto the mast and frontwing. Before use grease screws with the anti-seize paste (Loctite) under screw head. Do not grease screw threads. Tighten all four screws M6x20 to **9 ±1 Nm tightening torque** with the Levitaz mounting tool.

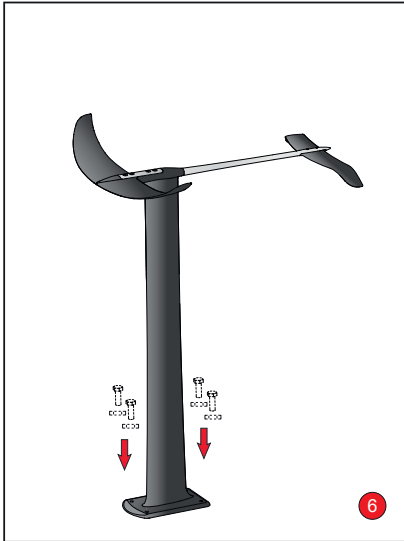


Figure 5.6

6. As a final step: Mount the Levitaz kitefoil onto your board. The bolts are not supplied by Levitaz. See chapter 3.1 “Connection to the board”.



**WARNING!**

The components of the Levitaz kitefoil can have sharp edges.

For users and any other personnel involved there is a danger of injury while the components are being assembled and while the Levitaz kitefoil is in use.

**NOTICE!**

Do not use a hammer or other sharp objects for the assembly or disassembly process.

This may cause serious damage to the product.

### CHECKS AFTER INSTALLATION

**NOTICE!**

While in use the frontwing tips must be facing the water and the rearwing tips facing the board.

Failure to do so may result in the product not operating properly and can reduce its service life.

## 6 DISASSEMBLY OF THE KITEFOIL

---

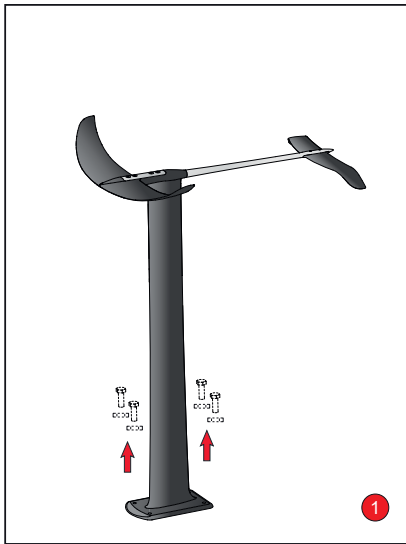


Figure 6.1

1. Remove the bolts from the kitefoil (board connection).



Figure 6.2

2. Remove all four screws M6x20 and the plate with the Levitaz mounting tool.



Figure 6.3

3. Pull out the frontwing.



Figure 6.4

4. Pull out the fuselage.

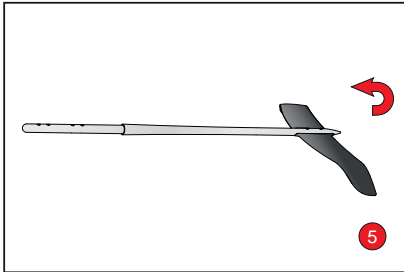


Figure 6.5

5. Turn the fuselage with the rearwing 180°.

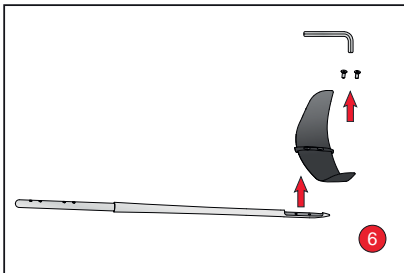


Figure 6.6

6. Remove both screws M6x14 with the Levitaz mounting tool and remove the rearwing.



**WARNING!**

The components of the Levitaz kitefoil can have sharp edges.

For users and any other personnel involved there is a danger of injury while the components are being assembled and while the Levitaz kitefoil is in use.

## STORAGE

See chapter “Packaging and Storage”.

**NOTICE!**

Always store the disassembled product in the durable carrier bag for optimal protection.

Failure to do so can reduce the service life of the product.

## 7 PACKAGING AND STORAGE

All parts are packed in a cardboard box. Every kitefoil set comes with a durable carrier bag, specially designed to hold the valuable Levitaz kitefoil and a suitable cover set.

- Take the product parts out of the box and carrier bag.
- Remove the packing film from the product parts. Check the product parts for possible damage that may have occurred during transportation.
- Stick the parts' bar code label on the first page of this manual.



Figure 7.1: Symbol photo of carrier bag



Figure 7.2: Symbol photo of cover set

### DISPOSAL OF STANDARD PACKAGING

The cardboard box and PE film can be recycled.

### STORAGE INSTRUCTIONS

The following instructions must be observed to prevent the product from being damaged during storage:

<b>NOTICE!</b>	<p><b>Always store the disassembled product in the durable carrier bag for optimal protection.</b></p> <p><b>Failure to do so can reduce the service life of the product.</b></p>
----------------	---

- Do not place heavy parts on top of the product.
- Do not leave or store the kitefoil in cars.
- Protect the kitefoil from direct sunlight or heat.

Storage temperatures:

NOT PERMITTED	OPTIMAL	PERMITTED UP TO	NOT PERMITTED
< -30°C (-22 F)	-10°C - +25°C (+14 F - +77 F)	+80°C (+176 F)	> +80°C (+176 F)



## 8 MAINTENANCE AND REPAIR INFORMATION

---

### 8.1 Maintenance

Clean all kitefoil parts with fresh water after every use and dry the parts. Always store the disassembled product in the durable carrier bag for optimal protection.

### 8.2 Repair information

INSPECTED CONDITION	CORRECTIVE MEASURE
Visible fiber failure or any other heavy damage like delamination (separation of the single layers of the composite).	<b>DO NOT REPAIR</b> the reinforced plastic components! Dismantle the product and send it back to Levitaz.
It is not clear if the damage is critical or not.	Take a photo, document the extent of the damage and contact Levitaz for advice.

If any other damage or wear to the product is identified but not described in this table, contact Levitaz to identify the appropriate corrective measure. See [www.levitaz.com](http://www.levitaz.com)

Dispose of worn parts as instructed in the chapter “Disposing of used parts”.

## 9 DISPOSING OF USED PARTS

---

After replacing individual components:

- All metal parts can be recycled (scrap metal).
- All old fiber reinforced plastic parts must be disposed of as residual waste.

**Federal, state and local regulations must always be observed when disposing of the product or parts thereof.**

## 10 ORDERING REPLACEMENT PARTS

---

**NOTICE!**

Use only original Levitaz replacement parts.

Failure to do so may cause serious damage to the product and void the warranty.

Stick the parts' bar code label on the first page of this manual. This will help to speed up your order for replacement parts or any possible troubleshooting.

## CONTACT INFORMATION

---

**LEVITAZ**

a brand of Geislinger GmbH  
Hallwanger Landesstr. 3  
5300 Hallwang/Salzburg  
AUSTRIA

T: +43 662 66 999-0  
F: +43 662 66 999-40  
E: [office@levitaz.com](mailto:office@levitaz.com)  
[levitaz.com](http://levitaz.com)





# Fly over water!



Levita**Z**.com

**LEVITAZ**

a brand of Geislinger GmbH  
Hallwanger Landesstr. 3  
5300 Hallwang/Salzburg  
AUSTRIA

T: +43 662 66 999-0

F: +43 662 66 999-40

E: office@levitaz.com



*Levita**Z***<sup>®</sup>