OBIETTIVO: Leggerezza e performance.

The last is the first component to be focused upon in the ski boot creation process and is also the most important component. The perfect last represents the first step towards achieving the final result – the perfect boot.

SkiBootTechnology

Mosaik Technology

Science, technology and ... art

Going from an initial sketch to an actual ski boot is a long and complex operation. It calls for a blend of science and considerable knowledge of materials, functions, market requirements and human anatomy, and, above all else, many years of experience in developing the best ski boots around. Thanks to Mario Sartor and his team of professionals, this is what we have at the Salewa Ski Development Centre in Montebelluna.

The first prototype to be produced, used to develop the mold for the shoe, is manufactured entirely by hand out of wood and resin. This is the hardest part of the production process, with experience, technology and art all coming together to form the perfect boot. Indeed, only a few people in this world are able to carry out this work.

Materials:
Each layer of the boot is closely examined to ensure that our ski boots remain the lightest and best performing on the market in terms of hold and downhill performance. As a result, only the most expensive, high-quality materials and composite fibres available are used in their making:

Pebax® und PU for the shell and cuff: the two best materials when it comes to performance. They absorb very little moisture, which in turn makes them very stable when exposed to temperature fluctuations. Pebax® is very light and extremely stable, and therefore ideal both for ensuring top performance and coping with large temperature variations. PU is heavier, but has better bending behaviour, which in turn helps improve the downhill performance of the ski boot.

Carbon Fiber or Rilsan are two extremely stiff materials used for our Powerstringer technology and as instep protection. They provide lateral strength and torsional rigidity. Carbon is lighter, more rigid and much more expensive, while Rilsan is the hardest plastic that can be used on an elastic part of a ski boot.
Lightest Performance Skitouring boot on the market – only 1585 g.
SkiBoot Technology
Dynafit Technology

(1) Carbon Fibre Powerstringer: The carbon Powerstringer is used to improve the rigidity, supporting effect and download performance of this boot range. The use of carbon is unique on the market and results in top performance both in terms of functionality and lightness. The Zzero line models that do not use carbon use Rilsan instead, a very hard and supporting plastic that provides top performance at a lower price.

(2) TF-Thermoflex Liner: An improved version of our super-light thermoformable liner, with a new collar shape for more comfort and with more resistant materials on the internal and external lining for more durability. With an easy thermoforming operation it perfectly adapt to individual foot shapes for a real custom made feeling.

MF-Multiform Liner: The lightest and more comfortable traditional construction liner on the market. Thanks to the best choice of materials and our experience we reached the incredible result to create a traditional inner boot, extremely comfortable and durable, only heavier about 100gr than a thermoformable liner. It’s also very supportive, warm and breathable.

(3) Magnesium buckles: The micrometrically-adjustable clasps are made out of magnesium and are weight-optimised in terms of shape. The steel ring is designed in such a way that it cannot slip out of the clasp, but it can still be easily removed with the help of a tool in the event of breakage. The toothed cuff-clasp catches can be easily set to three different positions using the bundled hexagon screwdriver. Floating hooks also secure the clasps when left completely open for walking.

(4) Tongue: The tongue of the Zzero boot is designed to anatomically match the shape of the foot. It is high and stiff enough to enable the skier to ski on the metal edges of his skis, while the bellows mean that it is soft enough to ensure flexibility when walking. The tongue is also attached in such a way as to include 5mm of movement space, which is of decisive importance when walking. A special carbon or Rilsan insert is anatomically positioned to protect the instep from clasp pressure without adversely affecting walking behaviour or flexibility. The tongue also possesses a wide, open shape that guarantees high walking comfort when wearing the boot.

(5) Ski-walk mechanism: The new, patented ski-walk mechanism is, according to studies, currently the easiest to activate on the market. It can be set to two ski positions - 15° and 21° - as well loosened for walking.

(6) Outer sole: The ultra-light DynaGrip outer sole is designed to provide maximum grip in all weather conditions. Thanks to the shaped driving channels, the sole fits perfectly into all Dynafit bindings and already fulfils all the requirements contained in the upcoming ISO 9523 standards. Horizontal and vertical grooves mean that the sole provides perfect hold in all directions and a very minimalistic design makes it as light as possible. The PU wedge, which runs from the heel to the toes, is lighter than rubber and offers supreme protection against the cold.
**Zzero⁴ C-MF / Zzero⁴ C-TF**

**Art.Nr:** MF: 61027/5130  TF: 61017/5130  
**COLOUR:** Translucent Green  
**Shell/ Cuff:** Pebax®, Carbon  
**Powerstringer:** Carbon  
**Buckles:** 4 Magnesium + Power Strap  
**Forward lean:** 15,21° release for walking  
**Cuff Rotation:** 30°  
**Sole:** DynaGrip Ultralight  
**Weight:** MF: 1715g (Size 27,5)  TF: 1585g (Size 27,5)  
**Sizes:** 25-30,5 + 1/2 sizes  
**Bindings:** Dynafit Quick step-in / UNI  

**Target group:** All SkiTouers and FreeTourers who expect top performance in all weather conditions and who wish to stand out from the crowd.

This new, revolutionary ski boot offers optimal downhill support as well as maximum freedom of movement when ascending, while the combination of boot and liner means first-class comfort. The material mix of Pebax® on the cuffs, shell and tongue, carbon on the Powerstringer and instep protection, and magnesium on the clasps, together explain why this boot is so versatile in terms of use and why it is currently the lightest 4-buckle boot on the market. The new Multiform liner is the lightest conventional liner around and complements the Zzero4 C perfectly.

**ZZero⁴ C-TF:** Same shell and cuff construction as Art.Nr. 61027/5130 with the new and improved Thermoflex liner.
**Zzero⁴ PX-TF**

<table>
<thead>
<tr>
<th>Art.Nr: 61037/2400</th>
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<tbody>
<tr>
<td>Colour: Translucent Yellow</td>
</tr>
<tr>
<td>Shell/ Cuff: Pebax®, Tongue: Pebax®, Rilsan</td>
</tr>
<tr>
<td>PowerStringer: Rilsan</td>
</tr>
<tr>
<td>Buckles: 4 Magnesium + Power Strap</td>
</tr>
<tr>
<td>Forward Lean: 15, 21° + release for walking</td>
</tr>
</tbody>
</table>

**Cuff Rotation:** 30°  
**Sole:** DynaGrip Ultralight  
**Weight:** 1585g (Size 27.5)  
**Sizes:** 25-30.5 + 1/2 sizes  
**Bindings:** Dynafit Quick step-in / UNI  
**Target group:** All SkiTourers and FreeTourers looking for the perfect boot in all weather conditions and a more affordable boot than the Zzero 4 C.

The Zzero4 PX is the non-carbon version of the Zzero4 C. It is nevertheless constructed in the same way as the carbon version. This means that the boot is in no way inferior to the C model in terms of comfort, fit, and freedom of movement when ascending. The Zzero4 PX, however, uses Rilsan on the PowerStringer instead of extremely-rigid carbon, and this in turn makes for an easier descent. Compared with the other boots on the market, this boot offers top performance and is the lightest 4-clasp SkiTouring boot available. The Zzero 4 PX is supplied with an individually-adaptable Thermoflex inner boot.
The Zzero 4 U is the polyurethane version of the 4-clasp boot. With its transparent red colour, this is the most striking and most downhill-oriented boot in the collection. Although its weight is slightly higher, it offers incredible freedom of movement on ascent. It is also the lightest 4-clasp polyurethane boot compatible with our bindings. It is supplied with a Multiform liner, the lightest and most comfortable liner on the market.
Zzero³ C- TF

Art.Nr: 61057/5130
Colour: Translucent Green
Shell/Cuff: Pebax® Tongue: Pebax®, Carbon
PowerStringer: weiße Carbonfaser ( nur Schale)
Buckles: 3 Magnesium + Power Strap
Forward Lean: 15,21° + release for walking

Cuff Rotation: 30°
Sole: DynaGrip Ultralight
Weight: 1430g (Size 27,5)
Sizes: 25-30,5 + 1/2 sizes
Bindings: Dynafit Quick step-in / UNI

Target group: All SkiTourers who undertake long tours that include large altitude differences and still expect top performance.

The Zzero³ carbon is the perfect SkiTouring boot. Weighing just 1430g, it is extremely light, has considerable freedom of movement around the cuff and provides enough support to enable optimal downhill performance. The cuff and the shell are made out of Pebax®, the boot has a carbon Powerstringer and instep protection, 3 micrometrically-adjustable magnesium clasps, a new, patented ski-walking mechanism and is the lightest 3-clasp ski boot to have such a supportive structure. The boot is the optimal choice for anyone looking for a quick, light and agile touring ski boot, but at the same time does not wish to compromise on downhill stability.

The boot is lined with the super-light, individually-adaptable TF liner.
Zzero³ PX-MF / Zzero³ PX-TF

Art.Nr: MF: 61067/4510 TF: 61077/4510

Colour: Metal Orange  Cuff Rotation: 30°
Shell/Cuff: Pebax® Tongue: Pebax®, Rilsan  Sole: DynaGrip Ultralight
Powerstringer: Rilsan (nur Schnalle)  Weight: MF: 1560g (Size 27,5) TF: 1430g (Size 27,5)
Buckles: 3 Magnesium + Power Strap  Sizes: 25-30,5 + 1/2 sizes
Sizes: 25-30,5 + 1/2 sizes  Bindings: Dynafit Quick step-in / UNI

Target group: All SkiTourers and FreeTourers looking for a perfect touring ski for long distances and for tours that include many ascents and descents, as well as for a cheaper alternative to the Zzero3 C.

The Zzero4 PX is the non-carbon version of the Zzero3 C. It is nevertheless constructed in the same way. This means that the boot is in no way inferior to the C model in terms of comfort, fit, and freedom of movement when ascending. The Zzero3 PX, however, uses Rilsan on the Powerstringer instead of extremely-rigid carbon, which makes for an easier descent. Compared with the other boots on the market, this boot offers top performance and is the lightest 3-clasp SkiTouring boot available. The new Multiform liner is the lightest conventional liner on the market and complements the Zzero3 PX perfectly.

ZZero³ PX-TF: Same shell and cuff construction as Art.Nr. 61067 with the new and improved Thermoflex liner.
Zzero² C- TF

Art.Nr: 61087/3790

Colour: Dark Blue
Shell/Cuff: Pebax® Tongue: Pebax®, Carbon
Powerstringer: weiße Carbonfaser (nur Schale)
Buckles: 2 Magnesium + Power Strap
Forward Lean: 15.21° + release for walking

Cuff Rotation: 30°
Sole: DynaGrip Ultralight
Weight: 1390g (Size 27.5)
Sizes: 25-30.5 + 1/2 sizes
Bindings: Dynafit Quick step-in / UNI

Target group:
All skiers looking for the perfect ski boot with which to undertake long tours that include large numbers of ascents and descents, and who also wish have fun and feel safe at the same.

The Zzero 2 C is the lightest Alpine SkiTouring boot on the market. It is designed for those whose overriding priority is lightness and agility, but who nevertheless seek stability and support on descent. The boot is the only one of its kind to include two micrometrically-adjustable magnesium clasps, a ski-walk mechanism and carbon fibres for optimal support on descent and as instep protection. The Zzero2 C is available with the ultra-light Thermoflex inner boot.
**TLT Race Pro TF**

<table>
<thead>
<tr>
<th>Art.Nr: 48016/9722</th>
<th>Forward Lean: 42°</th>
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<tbody>
<tr>
<td>Colour: Silver/Orange</td>
<td>Sole: DynaGrip</td>
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<tr>
<td>PowerStringer: Frianyl</td>
<td>Weight: 1220g (Size 27)</td>
</tr>
<tr>
<td>Tongue: Pebax®</td>
<td>Sizes: 22-31, 32 + 1/2 sizes</td>
</tr>
<tr>
<td>Buckles: 1 Polycarbon + Power Strap</td>
<td>Binding: Dynafit</td>
</tr>
<tr>
<td>Cuff Rotation: 17° + release for walking</td>
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</tr>
</tbody>
</table>

**Target group:** SkiRunning racers

The lightest ski touring boot around with a detachable sole. The shell has been widely milled at the back to allow especially rapid and large steps in competitions. A top model with countless adjustment and weight optimisation possibilities, and the first choice of winners.
The universal lightweight boot. The new, even lighter 2-clasp variation of the TLT 4 Evo for the climbing-oriented SkiTourer. A shortened sole construction for good rolling behaviour and comfortable walking. The Powerstringer made out of glass-fibre strengthened plastic and the one-piece tongue ensure good power transmission on descent. The removable spoiler, the ultra-light Walk&Ride system and the new micrometrically-adjustable clasps allow even better adjustment of shell pressure with simultaneous weight reduction. A strengthened Thermoflex inner boot with tongue construction provides sensational walking comfort without any bruising. Perfect for racing, with ergonomic walking comfort and stable lean-forward fixing for rapid descent. Also ideal for ultra-light, fast, high altitude ascents and descents.
TLT 4 Evo MF

Colour: silver/orange
Buckle/Cuff: Vestamid   Tongue: Pebax®
Powerstringer: Frianyl
Buckles: 3 Polycarbon + Power Strap
Cuff Rotation: 17° + release for walking
Target group: climbing-oriented SkiTourers

TLT 4 Evo TF

Forward Lean: 24°
Sole: Dynagrip
Weight: MF 1580 g (Gr.27)   TF 1400 g (Size 27)
Sizes: 22-31, 32 + 1/2 sizes
Binding: Dynafit

A lighter, revised model for climbing-oriented SkiRunners and SkiTourers. The shortened sole construction ensures good rolling behaviour and comfortable walking, while the rubber sole offers perfect hold when walking on land and has very good absorption characteristics. The Powerstringer made of glass-fibre strengthened plastic, and the two-piece tongue ensure good power transmission on differing descents, and the removable spoiler and extremely light Walk&Ride system round off its area of application.

The micrometric adjustable aluminium clasps allow even better adjustment of shell pressure with simultaneous weight reduction. A comfortable inner boot with a loden lining for high warmth and an ideal microclimate.

TLT 4 Evo-TF: Verstärkter Thermo-Flex Innenschuh mit Zungenkonstruktion für sensationellen Gehkomfort ohne Druckstellen.
The new, innovative Zzero collection MF liners combine the comfort, breathability and abrasion strength of traditional liners with the ultra-lightness of Thermoflex liners. Weighing just 60g (High) and 40g (Mid) respectively, these are the lightest conventional liners on the market. Only the best materials are used in Zzero MF liners, e.g. Cordura for the external liner; expanded PE for the padding to enable perfect breathability and insulation; and MicroPile for the lining to ensure maximum comfort and protection from the cold. Zzero liners also feature so-called HLS, or „Heel Locking System“ to ensure good ankle positioning within the boot. The models are available in two heights and therefore fit perfectly into Zzero 4 and Zzero 3 boots.

The TF liners of the Zzero collection fit into the new Dynafit Zzero boots perfectly. Thanks to the use of Thermoflex, they adapt to the shape of each foot and therefore guarantee a perfect fit. In addition, the special shape at the end of each liner provides even more comfort.
Dynafit Liner Models
Inner boot variations for an optimal fit.

While the outer shell is responsible for optimal power transmission, both during ascent and descent, the inner boot is decisive when it comes to fit, wearing comfort and a sure hold. Furthermore, blisters and bruises, for many SkiRunners, SkiTourers and FreeTourers a never-ending source of misery, can largely be avoided. Dynafit offers two different systems.

MF: The classic Multiform inner boot with loden lining, high thermal insulation and a breathable microclimate. The boot is equipped with a quick-lace system and its material mix means that it offers optimal wearing comfort, insulation and temperatures. The boot also has a multiform footbed that adapts itself to each foot.

TF: The innovative Thermoflex inner boot, with millimetre-precise adjustment for practically every foot shape. The material mix of the new strengthened Thermoflex liner with Velcrostrap combines solid protection and support in the heel area with a great deal of feeling and wearing comfort in the toe area.

Offer your customers the right choice. Your competent advice will lead to a sure, long-lasting fit and many enjoyable skiing tours.

**TLT 4 MF**

Art.Nr: 48165/0999
Wight: 410 g
Color: blue / black
Sizes: 22.0 – 32.0

**MF:** The classical Multiform liner with loden lining, high performing insulation and breathable micro clime. The liner is equipped with a quick-lacing system and offers the optimum of insulation, comfort and temperature due to it's material mix. Additionally the liner has a Multiform footbed which is adapting to each feet individually.

**TLT 4 TF**

Art.Nr: 48166/0999
Wight: 230 g
Color: black / silver
Sizes: 22.0 – 32.0

**TF:** The innovative Thermoflex liners with a micrometric fine adaption to every feet shape. The new reinforced Thermoflex liner with Velcrostrap combines with it's material mix a good > protection and fit in heel area with a lot of comfort and sensibility in toe area.