

estelon

from Alfred & Partners



AURUS

*Designed
by Alfred Vassilkov*

Serial Number _____

Your ESTELON loudspeakers have passed our quality control:

- Technical test passed.

Engineer, Estelon

- Listening test passed.

Alfred Vassilkov
Head of Research & Development, Estelon

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1. INTRODUCTION

1.1. Alfred & Partners OÜ

Alfred & Partners, the Tallinn-based design studio, think-tank, and owner of Estelon, is not simply a business but a passionate dedication to a single, heartfelt idea: the development and manufacturing of instruments capable of unveiling the rich, emotional tapestry of music in a personally involving and captivating way.

For more than 35 years Electro-acoustics Engineer and company founder, Alfred Vassilkov, has been relentlessly designing loudspeakers. His designs have been awarded numerous patents while also achieving much success in Europe. In 2010 a decision was made: to establish his own brand based on his extensive experience, knowledge, and relentless passion.



Alfred Vassilkov, the Designer and Founder of Estelon

Such dedication carries the implicit responsibility of a wholly uncompromising approach to audio design. Pride of craftsmanship shares equal footing with sonic innovation. Alfred Vassilkov's visionary achievements along with his tireless drive and quest for musical truth, created an innovative brand of loudspeakers whose products offer unrivalled musicality and incomparable beauty: Estelon. More importantly, Estelon offers a distinctive key that assists listeners in unlocking the vast structure of emotion through music.

For the Estelon brand, the visionary development started in 2006 when Alfred started analyzing materials and technologies for producing cabinets with streamlined shapes that could not only reproduce the best sound but also assimilate into home interiors with an elegant, sculptured look. Estelon's unique shaped cabinet creates the ideal conditions for sound reproduction. Its smooth form eliminates corner reflections.

Every loudspeaker produced must pass Alfred & Partners' extreme level of quality control. Each loudspeaker is completely hand-built, painted, assembled, tuned, tested, and then listened to individually. All Estelon products are meticulously handmade in Estonia, to the company's exacting standards.

1.2. Estelon AURUS

The AURUS is a masterpiece of sleek design. It suits perfectly in contemporary interiors providing luxury, elegance, and performance.

Paramount among the physical design elements is the use of the unique cabinet form. Premium quality components along with top-quality dampening materials, are all contributing factors to an exhilarating audio experience.

Many years have passed since the genesis of the Estelon, and much has been learned while embodying all achievements. The roots and choices have evolved into the Estelon sound. With the AURUS, the most beloved element of Estelon products has been reaffirmed again: simplicity. It featuring a 12-inch long-excursion driver, engineered to move large volumes of air effortlessly, and a custom-designed passive radiator opposite the driver for an extremely defined and deep bass.

1.2.1. Cabinet Design

Estelon engineering, along with a partnership with flat sheet thermoforming experts, took many years of research and testing to find the right technology that would allow the highest quality of cabinet and construction for the loudspeaker's acoustically engineered complex shape. The combination of the high-density, solid mass of the thermoformed mineral-filled composite and the purposeful shapes, results in characteristics that allow for close to perfect acoustical properties. The cabinet is extremely rigid, highly dense, and resonant-free.

The subwoofer enclosure is constructed from multiple layers of high-strength, rigid materials to create an exceptionally inert environment for both the driver and the passive radiator. The inner core consists of precision-milled plywood, providing outstanding structural strength and durability.

Encasing this plywood core is the thermoformed, mineral-doped composite shell, the same advanced material used across the entire A-Series lineup. This shell is bonded to the plywood using a specialised adhesive, carefully chosen to enhance damping properties while further increasing the enclosure's rigidity and stability.

1.2.2. Proprietary passive radiator & subwoofer drivers

The subwoofer features a 12-inch long-excursion driver, engineered to move large volumes of air effortlessly. It incorporates a robust 3-inch voice coil, capable of handling 300W of continuous power. The motor and suspension systems are specifically designed to allow a linear excursion of 15mm in both directions, ensuring clean, distortion-free performance even at high output levels.

To achieve powerful, deep bass in a compact enclosure, a custom-designed passive radiator is positioned opposite the driver. Based on the same core design as the main driver, the passive radiator has been meticulously optimised for this role, enhancing low-frequency extension and acoustic output without introducing port noise or unwanted resonances.

1.2.3. Seamless integration with AURA and AURELLE speakers

The AURUS subwoofer is engineered for precise matching with the AURA and AURELIA speakers, featuring an advanced 1200W bridged Class-D amplifier. This configuration ties two amplifier channels together, reducing distortion while significantly increasing power output for effortless, dynamic bass reproduction.

Dual Input and Filter Systems

The amplifier's input stage includes two independent filter paths, ensuring flexibility and optimal performance:

1. Active Analog Line-Level Filter:

- Through the XLR connector it supports all standard line-level inputs.
- Designed for high fidelity with minimal signal degradation.

2. Passive High-Level Filter:

Accepts input directly from one of the main stereo speakers, enabling easy integration with traditional systems. Each filter path contains two dedicated filter profiles, one tailored for the AURA speakers and the other for the AURELIA speakers. These can be selected via rear-panel switches, providing a total of four distinct filter configurations.

Precision Control for Perfect Integration

Every filter is equipped with Level Control:

- Passive filter: 0 dB / +3 dB switch for quick output adjustment.
- Active filter: Continuous ± 6 dB single-turn control for fine-tuning.

The filters feature ultra-low latency, ensuring perfect phase alignment with the AURA series products. This phase coherence allows the subwoofer to act as a natural extension of the main speakers — seamlessly blending in level, timing, and phase.

Unmatched Acoustic Experience

The result is a subwoofer that becomes virtually imperceptible during playback. Unlike conventional subwoofer setups, this system was designed to disappear sonically, leaving behind nothing but an immersive, full-range listening experience.

2. SPECIFICATIONS

TYPE:	1-way actively amplified, passive radiator
FREQUENCY RESPONSE:	18 - 45 Hz for AURA (18 - 75 Hz for AURELLE)
ACTIVE FILTER INPUT IMPEDANCE:	10 k Ω
PASSIVE HIGH-LEVEL FILTER INPUT IMPEDANCE:	>470 Ω
OUTPUT LEVEL ADJUSTMENT:	+/- 6 dB active input (0 or +3 dB passive input)
INTERNAL AMPLIFIER POWER:	1200 Watts short term RMS
INTERNAL CABLING:	Kubala-Sosna
CABINET MATERIAL:	Thermoformed mineral-filled composite
DIMENSIONS:	Height: 490 mm (19.2") Width: 330 mm (12.9") Depth: 450 mm (17.7")
NET WEIGHT:	45 kg (99 lbs.)

3. UNPACKING INSTRUCTIONS

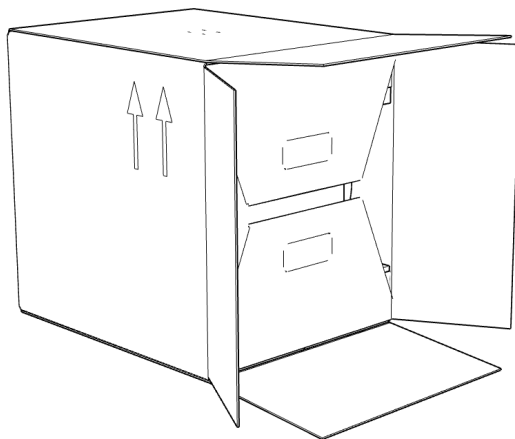
Your Estelon AURUS loudspeakers come packaged in a carton box. For shipping, the box is wrapped on a pallet. We recommend keeping the original packaging for possible future transportation. Due to the substantial weight and slippery surface of the loudspeaker, we suggest that two able-bodied individuals assist in the unpacking and positioning process.

Contents:

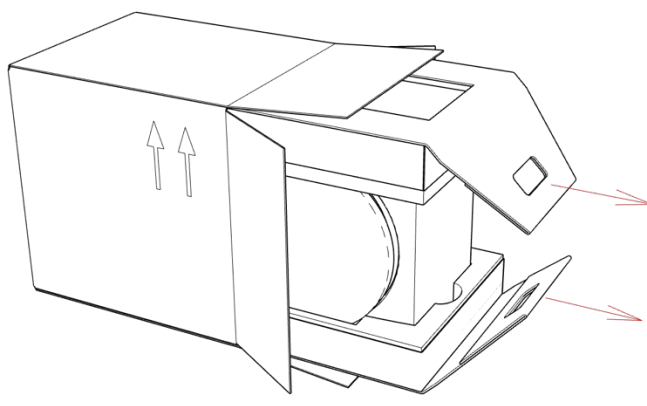
- 1 loudspeakers
- 2 special fabric wrapped covers/grilles
- Accessories boxes containing:
 - 1 sets of spikes (4 pieces)
 - 1 sets of locking rings (4 pieces)
 - 1 sets of floor plates (4 pieces)
 - 2 pairs of gloves
 - 1 polishing cloth
 - 1 user's manual

For unpacking, please follow the instructions described below and as shown in the drawings:

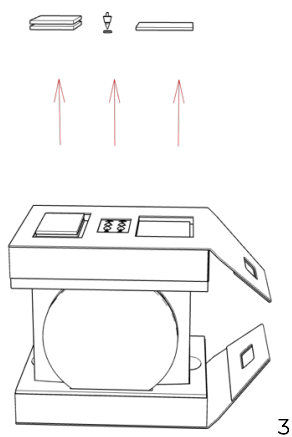
1. Place the box on the floor with the arrows on the box pointing upwards, as shown in Drawing 1. Carefully open the side of the box.



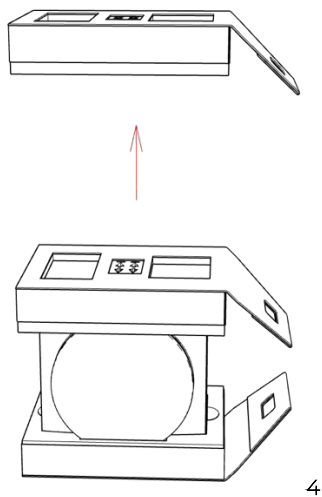
2. Using the two integrated handles, as shown in Drawing 2, gently pull the subwoofer out of the box while the second person stabilises the box from the opposite side.



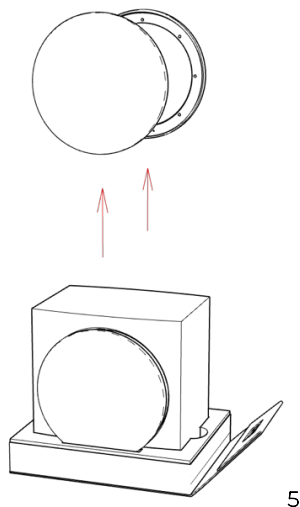
3. Remove the accessories from the top internal cardboard cover as shown in Drawing 3.



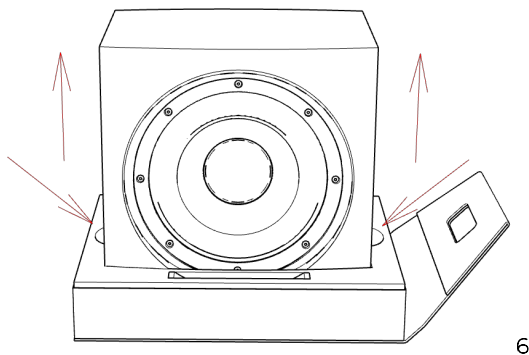
4. Lift off the top carton covering the subwoofer, as illustrated in Drawing 4.



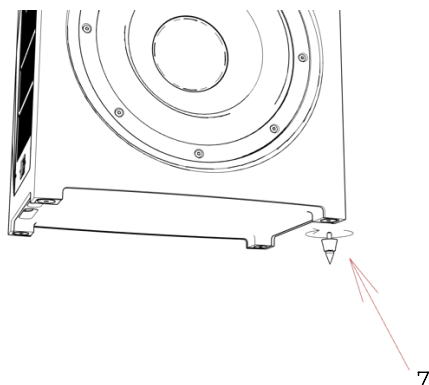
5. Gently remove the protective drivers' grilles, as shown in Drawing 5. Set them aside safely for later use.



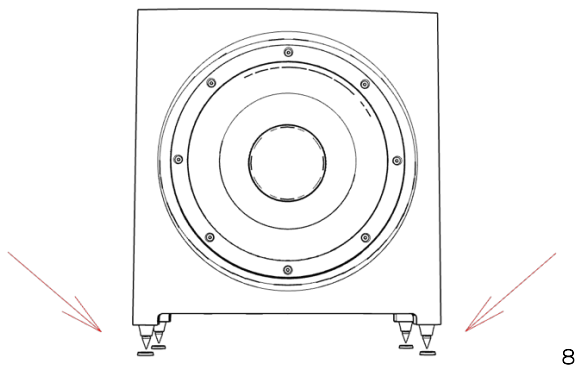
6. With two people, carefully lift the subwoofer from the bottom carton base as shown in Drawing 6. **Make sure the subwoofer is placed directly onto a soft, non-abrasive surface (e.g., a thick towel or blanket) to prevent damage to the base edges.**



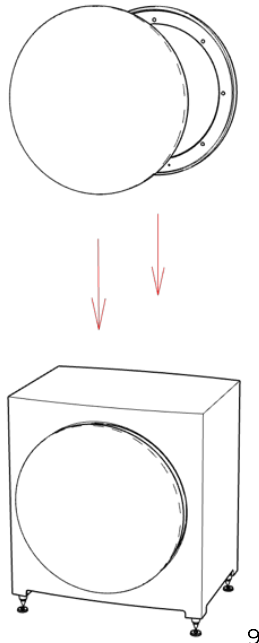
7. While one person slightly tilts the subwoofer to the side, the other person should install the spikes by screwing them into the pre-threaded holes, as shown in Drawing 7. Repeat on the other side until all spikes are securely installed.



8. If the subwoofer is being placed on a hard floor surface (e.g., wood, tile, or laminate), position the provided floor plates under each spike to prevent damage to the flooring, as shown in Drawing 8.



9. Magnetically attach the protective grilles over the drivers to shield them from dust and accidental damage, as shown in Drawing 9.



4. SET-UP

4.1. Positioning in the room

The AURUS subwoofer is designed to perform at its best when placed near the matching AURA or AURELLE speakers, ensuring seamless integration in both sound and timing.

For home cinema setups, where latency adjustments (often labelled as "distance to listening position") provide flexibility, the AURUS subwoofer can be positioned anywhere in the room without sacrificing performance. This allows for versatile placement to suit your space and aesthetic preferences.

While the AURUS subwoofer is engineered to deliver powerful, balanced bass with a single unit per stereo setup or full home cinema system, multiple subwoofers can be added to further enhance low-frequency impact. Adding additional units increases bass presence, improves room mode control, and delivers a more even, immersive bass response throughout the listening area.

4.2. Connectivity & controls

The AURUS subwoofer features a flexible input and control panel designed for both active and passive configurations. Active mode uses the XLR input and provides variable gain control. Passive mode bypasses the active electronics and uses direct speaker-level input via the banana connectors. Please refer to the rear panel layout (Drawing 10) for the following input options and controls:

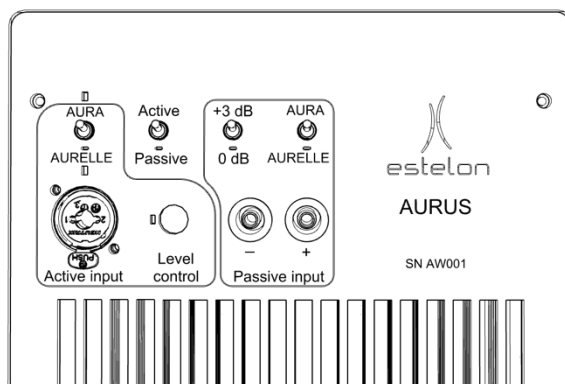
Power Connection

- Power Inlet: Standard IEC C13 connector
- Fuse: User-replaceable 3 A slow-blow fuse
- Power Switch: Located next to the power inlet

Input Modes

1. Active Input (XLR)

- The 3-pin XLR connector is used for active input, ideal for connection to preamplifiers, home cinema processors, or other line-level sources.
 - A potentiometer dial located next to the XLR connector allows level adjustment from -6 dB to +6 dB (active input only).
 - The first switch from the left selects between AURA and AURELLE filter modes for active use.
 - The second switch selects between ACTIVE (XLR) and PASSIVE (banana plug) operation.
2. Passive Input (4 mm Banana)
- Two 4 mm banana input connectors are provided for passive connection using standard speaker wire from the main amplifier's speaker terminals (one positive and one negative).
 - The third switch from the left adjusts the gain for passive input: 0 dB or -3 dB.
 - The fourth switch allows selection between AURA and AURELLE filter settings for passive operation.

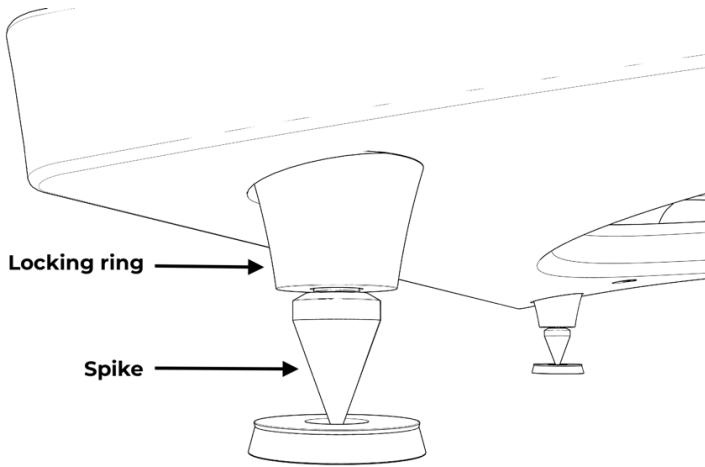


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4.3. Setting up the spikes for uneven floors

In case of an uneven floor please follow the steps described below in order to achieve good stability and a properly levelled loudspeaker. Please locate the spikes that do not touch the floor/floor plates and then:

- i) Loosen the locking ring slightly.
- ii) Adjust the spike until it makes contact with the floor.
- iii) While firmly holding the spike in the adjusted height position, tighten the locking ring until the spike is securely in place.



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4.4. Break-in period

Although all Estelon speakers have an initial “break-in” at the factory, due to shipping conditions and pressure/temperature changes that may have incurred, the speakers will need to go through an additional “break-in” process before their final set-up. All the

mechanical and electrical connections will stabilize naturally after playing a continuous music signal for approx. 24 hours – e.g. use a digital source on repeat mode. After the initial “break-in” period, you can start setting-up the sound according to Alfred Vassilkov’s recommendations. Please note that the speakers should reach their optimum level of performance after about 100 hours of use.

5. TAKING CARE OF YOUR ESTELON SPEAKERS

In order to maintain the speakers’ immaculate appearance, special cleaning cloths are provided with your Estelon loudspeakers. Please note that only dry cleaning is allowed. Do not wash the speakers. In case of a smudge/spot, please use a damp, soft, lint-free cloth to clean the smudges before the final finishing with the special cloths that accompany the speakers. Please do not apply polishing to the speaker drivers. The use of other materials can damage, scratch, or destroy the finish.

Additional information regarding the polishing cloths and other products:

- Use with the provided microfiber cloth: Würth Active Glass Cleaner (Item # 089025) Silicone-free
- 3M Perfect-It III High Performance Polishing Cloth (Item # 50486) or any 3M Microfiber cloths

No additional wax or polish is required.

For additional information and guidance regarding cleaning/polishing materials, please contact your dealer.

6. ESTELON / ALFRED & PARTNERS OÜ – Technical Services

Alfred & Partners OÜ Five Year Limited Warranty

Terms and Conditions

1. **Limited Warranty** – All ESTELON products purchased from authorized ESTELON dealers are covered by a limited 5-year **non-transferrable** warranty granted by Alfred & Partners OÜ. This warranty includes all parts and labour charges as well as return shipping charges (product owner is responsible for all shipping and insurance charges one-way to the ESTELON repair facility or ESTELON factory approved repair facility).

Alfred & Partners OÜ warrants the purchased product to be free from manufacturing, materials, and workmanship defects for **five years** from the date of original purchase, subject to the following conditions.

Customers should consult with their original ESTELON dealer or distributor for possible alternate repair instructions prior to contacting the ESTELON factory. Other ESTELON dealers or distributors may refuse from assisting the Customer under the limited warranty. BUT under any and all circumstances customers are welcome to contact our sales department, listed on our website www.estelon.com, for service assistance.

This limited warranty is valid only in the country where the product was originally purchased. If the repair request that is covered under this warranty comes from another country, then Alfred & Partners OÜ may request the Customer to compensate Alfred & Partners OÜ additional costs arising from providing this limited warranty in another country than the country of original purchase.

This limited warranty shall not affect the statutory rights of the Customer.

2. Limited to Original Purchaser – This warranty is for the sole benefit of the original purchaser of the covered product and may not be transferred to a subsequent purchaser of the product.

3. Conditions and Limitations – This warranty is subject to certain conditions and limitations, as follows. This warranty is void and inapplicable if the product has not been used in accordance with the instructions found elsewhere in the owner's manual, or if it has been misused or abused, damaged by accident or neglect, or in transport once in possession of the purchaser. The warranty is also deemed void if the product has been repaired, modified, or tampered with by anyone other than Alfred & Partners OÜ or its specifically authorized agents. Please Note – if the fasteners to the cover of the crossover area, those covered with multi-coloured specialty epoxy seal, have been tampered with / the epoxy removed – the warranty will be considered to be void.

This warranty does not cover defects due to accidents or similar causes arising after the risk for the product has passed to the Customer, or normal deterioration, wear and tear.

4. Remedy – If this product contains a material, manufacturing, or workmanship defect that cannot be repaired at the dealership where the product was purchased, it must be packed in original packaging and returned to Alfred & Partners OÜ via insured freight, at the owner's expense. If replacement packaging materials are required, they may be purchased from the factory at a charge. **Returned products must be accompanied by a written description of the defect,**

and a return authorization number (available from the factory via phone or email).

Upon receipt of a defective product, Alfred & Partners OÜ agrees to repair the product without charge for parts or labour. The product will then be returned via prepaid, insured freight, with the carrier at the sole determination of Alfred & Partners OÜ. This constitutes the purchaser's sole remedy.

Alfred & Partners OÜ undertakes during the warranty period to the exclusion of any other remedy to repair or replace the part of the product, which the examination by Alfred & Partners OÜ shows to have been defective. The warranty period for repaired or replaced parts shall not exceed the original warranty period and shall terminate along with the original warranty. The term of the original warranty shall not be extended by the duration of any warranty repairs.

5. **Design Changes** – ESTELON reserves the right to modify its products or change specifications at any time without obligation or liability to previous purchasers.

6. **Miscellaneous** – This warranty does not extend to any incidental or consequential costs or damages to the purchaser. This warranty gives you specific legal rights. You may also have other rights which vary from country to country.

Instructions for Obtaining Repair Service

1. Complete the Return Authorization Request Form – available online at estelon.com/support.
2. Upon clicking the 'Submit' button on the Return Authorization Form, the ESTELON factory will review it for

completeness and return an e-mail to you with an RA number when required (please allow 2-5 days for a return e-mail).

3. Crate and/or package the product in its **ORIGINAL FLIGHT CASE CONTAINERS ONLY**, according to the instructions included in the return e-mail, and ship the product to the shipping address included in the e-mail. The owner is responsible for paying the shipping and insurance charges (Alfred & Partners OÜ will cover return shipping and insurance charges on warranty repairs).

4. **In the case of non-warranty repairs**, Alfred & Partners OÜ will physically inspect the product and contact the customer for repair approval. Upon approval and completion of the repair, the product owner will be informed of the final charges (including return shipping). Payment may be made by bank/wire transfer prior to the final shipment). Payments not received within 30 days of initial contact may incur storage fees.

We strongly recommend that all product repairs should be conducted through the ESTELON factory or an authorized ESTELON repair facility. ESTELON products are designed and manufactured to the highest tolerances with numerous hand-picked components; for this reason, we **HIGHLY RECOMMEND** that components not be serviced by non-authorized repair facilities. Alfred & Partners OÜ values its loyal customers and will make every attempt to return repaired products to their original factory specifications. Customers should consult with their original ESTELON dealer or distributor for possible alternate repair instructions prior to contacting the ESTELON factory. BUT under any and all circumstances customers are welcome to contact our sales department, as listed on our website www.estelon.com, for service assistance. All non-warranty repairs are warranted for one year from the date of the return shipment.

Have we answered all your questions?
If not, please send us an email with your questions at
sales@estelon.com

www.estelon.com

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Notes