

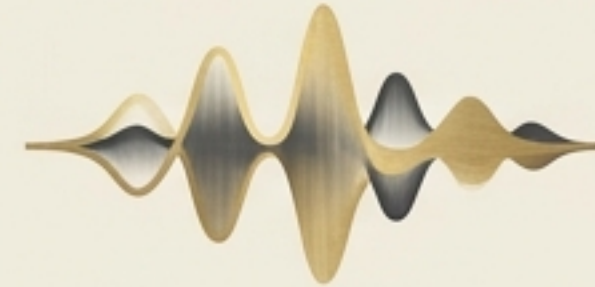
A grand piano is positioned in the center of a classic living room. In the foreground, two large, light-colored wooden floor-standing speakers are placed on either side of the piano. The room features wood-paneled walls, a large window with curtains on the right, and a painting on the left wall. The floor is polished wood, and a patterned rug is visible in the lower corners.

# The Architecture of Pure Sound

Engineering the LALS Classical 15 EX-II

# The Essence of Real Sound

LALS Audio does not chase trends or empty numbers. The philosophy is singular: recover the essence of live music through classic engineering, noble materials, and uncompromising execution.



## Live & Direct.

Conveying music with natural scale, presence, and truth.



## Noble Materials.

Solid wood horns and Russian birch enclosures.



## Modern Precision.

Historic horn concepts refined with exact computer calculations.

An honest proposition for those who understand high fidelity as an experience, not merely a technical specification.

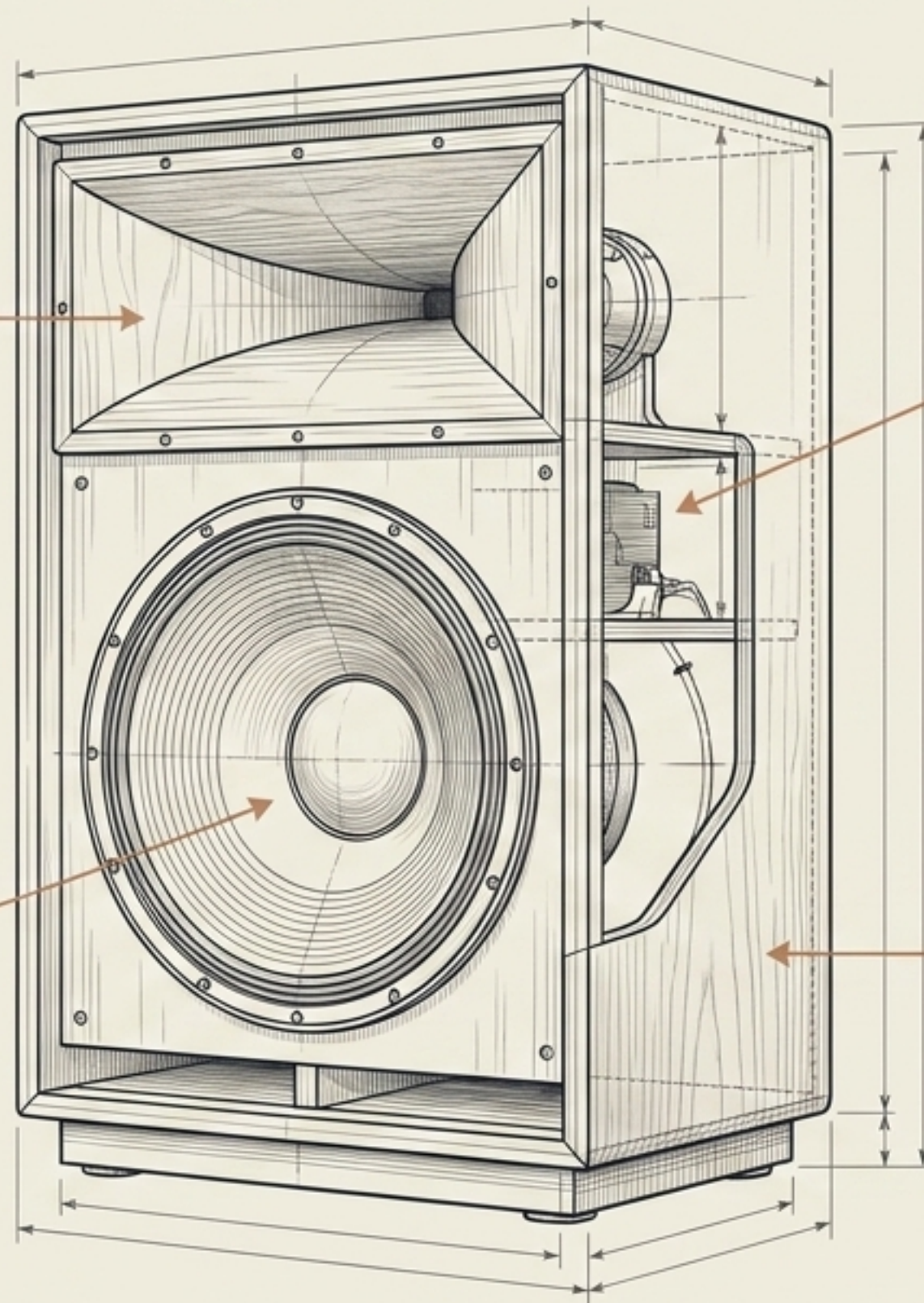
# Anatomy of an Acoustic Masterpiece

**The Acoustic Engine**  
55cm horizontal wooden horn paired with a 50mm titanium compression driver.

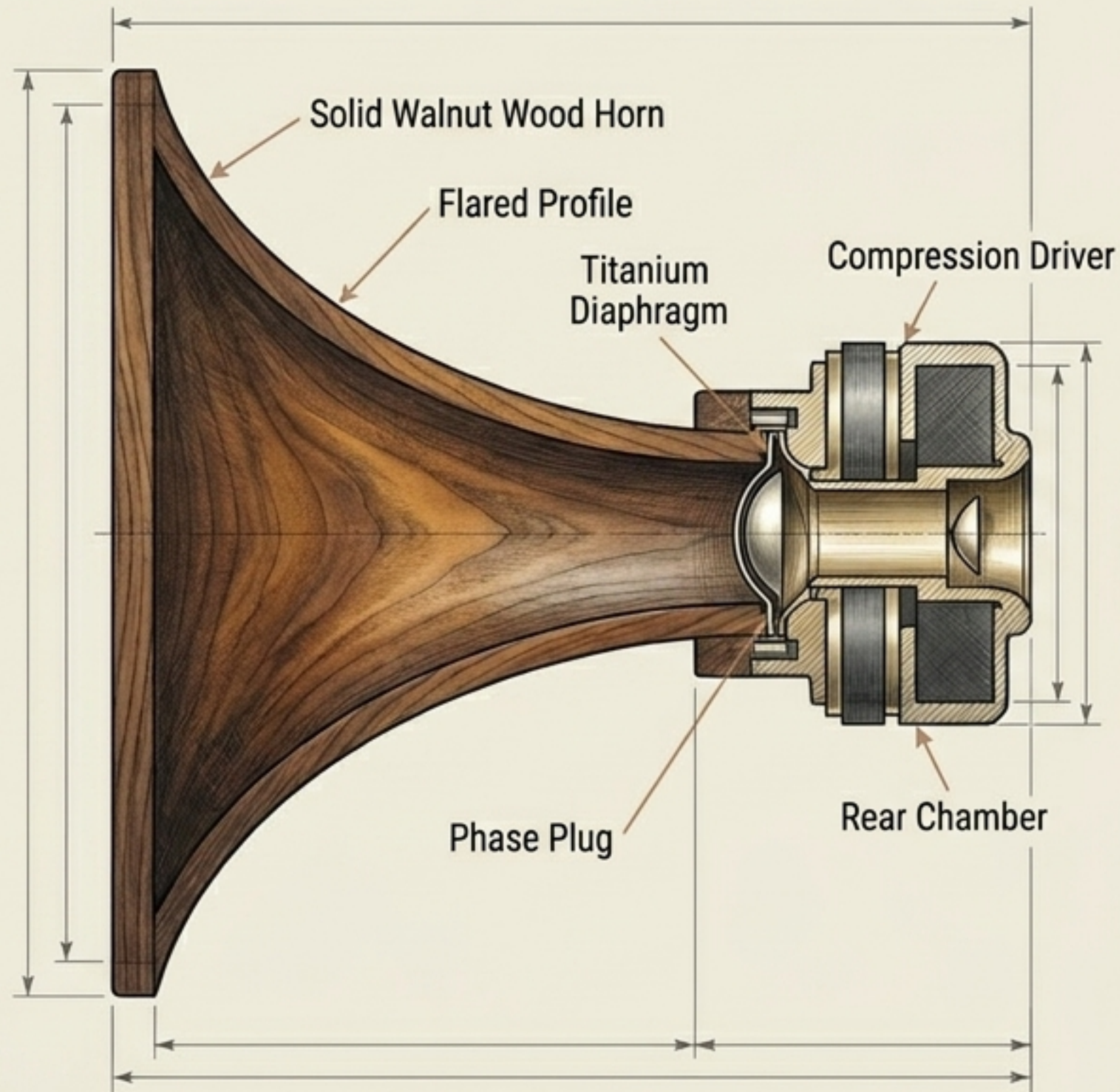
**The Low End**  
15-inch paper and fiberglass composite woofer for ultra-fast transients.

**The Handoff**  
Custom 800 Hz crossover for seamless frequency integration.

**The Vault**  
Hand-crafted Russian birch plywood enclosure for absolute resonance control.



# The Acoustic Engine: Unrestricted Articulation



Key Specifications	
Component:	50 mm Titanium Compression Driver
Acoustic Horn:	55 cm Horizontal Wooden Horn
Frequency Range:	800 Hz to 25 kHz



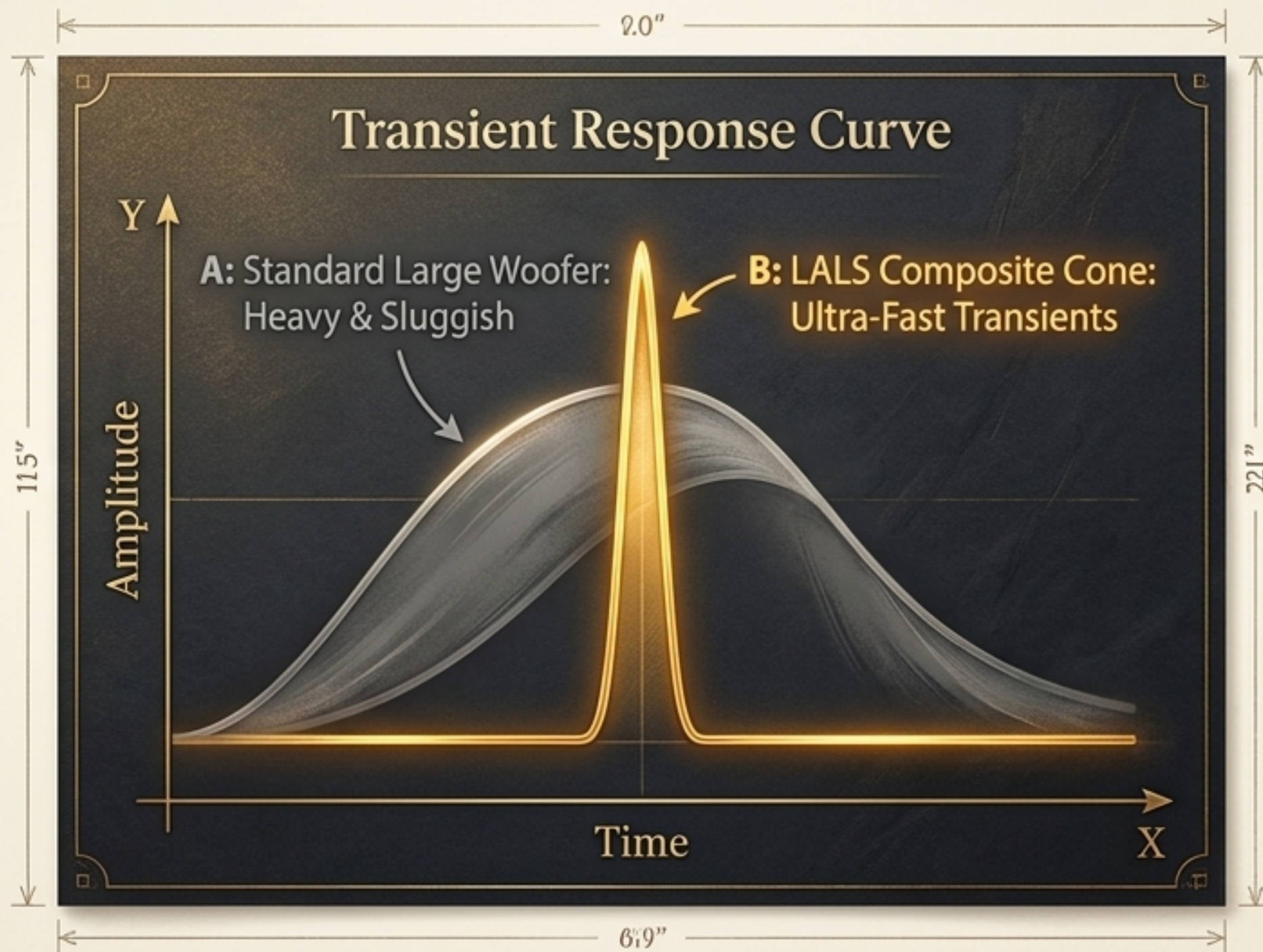
The wooden horn is precisely computer-calculated to eliminate the harshness often associated with vintage horn designs. Coupled with the massive 50mm titanium driver, this evolution allows for a continuous, highly integrated transition between midrange and high frequencies.

**Acoustic Result:** Reproduces full-bodied vocals and instruments with highly realistic textures and a soundstage of natural, uncompressed proportions.

# The 15-Inch Foundation: Immediate Impact

## Technical Details

- Constructed from a proprietary paper and fiberglass composite.
- Surrounded by a specialized treated fabric edge.



## Engineering Insight

The design strictly prioritizes short cone travel and extreme linearity. By drastically reducing the moving mass, the woofer achieves absolute control and immediate physical impact without the overhang typical of large-diameter systems.

# The Handoff: A Seamless Sonic Tapestry

## Frequency Handoff Model



## Technical Details

Built with high-quality custom components, the crossover network anchors the transition at an exceptionally low 800 Hz.

## Acoustic Result

By shifting the handoff point well below the critical vocal frequencies, the Classical 15 EX-II eliminates phase anomalies in the midrange, resulting in a continuous, wide, and perfectly structured soundstage.

# The Vault: Material Superiority

## Material Diagnostic Table

	<b>Russian Birch Plywood</b>	Standard MDF
Structural Rigidity	Exceptionally solid and robust	Standard industry baseline
Resonance Control	Naturally dampens internal standing waves	Prone to masking micro-details
Acoustic Clarity	Ensures clean, highly articulate musicality	Can induce boxy coloration

## Craftsmanship

Each cabinet is meticulously hand-built and finished in premium Walnut in Taiwan, elevating it from a simple enclosure to a piece of acoustic furniture.

# Extreme Sensitivity: The Versatility Spectrum

## 98 dB / W (1m) Sensitivity

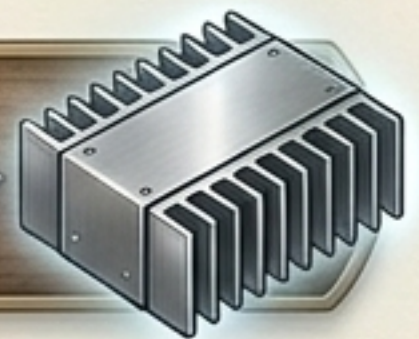


### 7W Tube Amplification

Operates with complete ease. Delivers pure warmth, vibrancy, and a highly immersive, intimate sound.



### VERSATILITY



### 500W Solid-State Amplification

Spectacular response. Unlocks ultimate control, absolute authority, and maximum dynamic range.

[The exceptional 98 dB sensitivity transforms the speaker into a perfect chameleon, extracting the absolute best characteristics from any high-quality amplification philosophy.]

# Precision Tuning for Real-World Acoustics



**Bright/Reflective Rooms**  
(Hardwood floors, glass)

→ Attenuate highs to restore natural warmth.

**Neutral Environments**  
(Treated acoustic spaces)

→ Maintain reference baseline.

**Damped Rooms**  
(Heavy carpets, thick curtains)

→ Increase high-frequency energy to restore air and detail.

[ The built-in treble attenuator is an essential calibration tool, allowing the listener to perfectly align the speaker's tonal balance with the unique sonic signature of their room and electronics. ]

# The Synthesis: The Live Experience

The synergy of the 55cm horn, the ultra-fast 15-inch woofer, and the resonance-free Russian birch cabinet culminates in a singular achievement: genuine physical presence.

## The Culmination

The sound is warm, vibrant, and effortlessly authoritative. It reproduces the true scale and physical weight of live instruments.

## Peer Validation

It is no coincidence that the sonic signature, realism, and dynamic scale of the EX-II are directly compared by purists to historic reference systems from brands like Daniel Hertz and TAD.



# Physical Authority & Artisan Craft

600(W) × 760(H)  
× 530(D) mm



600(W) × 420(H) × 420(D) mm

## Key Specifications

**Speaker Mass:** 66 kg per unit

**Impedance:** 8  $\Omega$

**Origin:** Meticulously handcrafted  
in Taiwan.

## Dedicated Support Platform

Includes specifically designed matching stands (16 kg each). These are not accessories; they are vital acoustic components engineered to provide a solid base and position the horn at the optimal listening height.

# The Entry Point to Grand-Scale Reference

## LALS Classical 15 EX-II

A definitive achievement in realism, dynamics, and physical presence, redefining musical coherence for grand-scale listening.