

REVEL®

HEAR

F52

F32

M22

**PERFORM***a*™

C52

C32

LISTEN

S30

B15a

REVEL

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REVEL®

Owning Revel® loudspeakers is a pleasurable experience for both the ears and eyes. Learning about the finer details of their design and construction will deepen your appreciation of their lasting value.

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The Revel Performa Series represents the culmination of Revel's tremendous acoustical research and technological resources. Revel's world-class team of engineers, designers, and acoustical researchers was challenged to create premium loudspeakers that combine superior audio performance with handsome aesthetics. The resulting Performa Series loudspeakers feature proprietary drivers housed in beautiful cabinetry that attains stunning sonic performance and placement flexibility while complementing the décor in most homes.

### **THE LISTENING LAB**



The Performa Series offers truly superior sound quality and incomparable technical pedigree, thanks in part to Revel's sophisticated laboratory listening technique that — for the first time — provides an accurate correlation between loudspeaker measurements and sonic performance. Though laboratory measurements are critical, human hearing is the ultimate evaluation tool. Revel's Multichannel Listening Lab (MLL) represents the industry's most sophisticated loudspeaker listening facility, allowing loudspeakers to be compared as single speakers, stereo pairs, or multiple speaker groups. Revel's tests are based on extensive real world listening in more than five different environments that simulate a wide range of residential settings and room sizes. The MLL facility features a remarkable, exclusive computer-controlled speaker switching stage that eliminates the problems associated with speaker placement and aural memory variables. Loudspeakers are placed on computer-controlled, movable platforms that can quickly be arranged during testing. As a



result, the speaker repositioning process takes only a few seconds, allowing listeners to quickly and accurately compare speakers to each other from the same room position and with minimal time in-between models. All tests are conducted “double-blind.” Once the loudspeakers are installed on the MLL platforms, an acoustically transparent but visually opaque veil obscures loudspeaker identities from the listening panelists to prevent human bias from tainting the results. Even the computer operator is not aware of the loudspeaker identities, as the computer randomly determines the listening order prior to the test.



### **ANECHOIC CHAMBERS**

While few loudspeaker companies have access to one, Revel has three different anechoic (echo-free) chambers. Unlike most other companies, Revel does not depend on electronic anechoic “simulator” testing methods that often fail to reveal critical performance flaws such as resonances. Revel's anechoic chambers are state-of-the-art in design, allowing for accurate and useful loudspeaker measurements of complete loudspeaker models and individual driver elements.



### **TRANSDUCERS, TESTING & QUALITY CONTROL**

Most loudspeaker manufacturers out-source their transducers, purchasing off-the-shelf tweeters, midranges, and woofers from vendors. Revel loudspeakers feature proprietary transducer designs found in no other company's products. These transducers are exclusively designed,

engineered, and manufactured for Revel loudspeakers.



Revel engineers use Computer Aided Design (CAD) software to design transducers that are optimized for each Revel model. A powerful Finite Element Analysis (FEA) system provides a comprehensive computer simulation of the entire driver assembly, allowing engineers to optimize every aspect of a transducer assembly. FEA produces precise models of the driver's magnetic system, which is used to optimize the electro-magnetic circuits for each transducer according to the individual driver's application. Transducer components such as cones, domes, surrounds, and centering mechanisms (the spider) also benefit from FEA scrutiny in the design process.



An in-house Stereo Lithography Apparatus (SLA) is used during development to help assure very tight tolerances and minimize development times. The SLA utilizes a high-power laser to precisely solidify a liquid polymer into the 3-dimensional shapes specified in CAD drawings. This allows designs to be turned in real prototypes very quickly so they can be verified before going into production.



During development, Revel also uses the industry's most sophisticated driver distortion analyzer to pinpoint the precise source and location of undesirable distortions within the driver assembly. In addition, a high-resolution Laser Interferometer scans the entire radiating surface of the driver for evidence of breakup, which occurs when the radiating surface flexes undesirably. This incredible tool helps Revel drivers to achieve more linear piston-like behavior, delivering minimal coloration and excep-

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tionally low distortion.

The Laser Interferometer also contributes to the design of the loudspeaker cabinet. To avoid undesirable coloration, the cabinet enclosure must not cause unwanted resonances. Laser scanning the loudspeaker enclosure allows for optimization of the cabinet design, including proper placement of internal bracing to create an acoustically inert enclosure conducive to the most neutral and honest sound reproduction.

Prior to installation in the loudspeaker enclosure, each loudspeaker driver complement and associated crossover elements are subjected to rigorous testing as a complete sub-assembly. Components are tested in an anechoic chamber and then compared to production reference standards. But even with the tightest production tolerances, slight deviations still might occur from one loudspeaker to the next. To prevent this, a technician compares each loudspeaker to the reference standard, making careful adjustments by hand as needed. All tuning adjustments and specifications are then recorded and retained for archive purposes, referenced to the loudspeaker's serial number.

This careful attention to detail allows Revel to achieve unparalleled consistency among all loudspeakers, alleviating the need for matched pairs. Instead, all Revel loudspeakers are matched within a fraction of a decibel to achieve superior soundstage imaging and accuracy. Each pair of Performa loudspeakers sounds the same as the original reference pair as well as the loudspeakers that have won accolades from reviewers around the world. Physically separated circuit boards for each



frequency range prevent degrading mutual interference caused by component-to-component interaction. The result is distinctly more transparent and distortion-free sound reproduction.

With the premiere of the Ultima Series, Revel earned a reputation for producing “the world’s finest loudspeakers.” Since then, Revel loudspeakers have won accolades from discerning audiophiles and critical reviewers alike. Collectively, the Performa Series offers an impressive combination of advanced design, precision manufacturing, stunning audio performance, and handsome aesthetics. Individually, each Performa loudspeaker is a standout performer that delivers a performance as powerful as it is precise.

The following pages detail the unique design, engineering, and capabilities of each Performa loudspeaker model.



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F52

Shown in  
Natural Cherry  
finish

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# PERFORMa F52



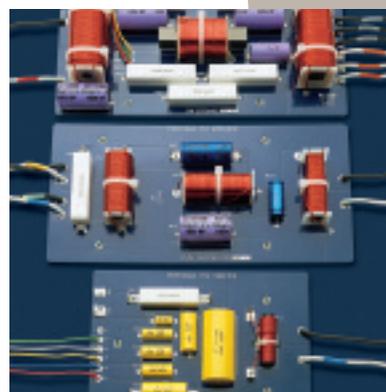
A five-driver, three-way design, the Performa F52 includes a trio of high performance 6½-inch woofers that incorporate our exclusive Organic Ceramic Composite cone technology, which provides the ultimate combination of rigidity and lightness. Featuring butyl surrounds and high strength magnetic motor structures, together these woofers provide the deep bass response commonly associated with a much larger single driver, along with low distortion and wide frequency response, allowing a much narrower cabinet profile. The 5½-inch OCC cone midrange driver is similarly equipped, and is housed in its own sub-enclosure within the F52's elegant cabinet, which is constructed of thick and acoustical-

ly inert MDF and features substantial internal bracing for added rigidity.

The F52 tweeter assembly features a proprietary 1-inch aluminum dome tweeter housed in an integrated Constant Acoustic Impedance waveguide, which provides both optimum acoustic loading as well as optimized horizontal and vertical dispersion. The result is a virtually seamless transition from the midrange to the treble frequencies that also provides virtual acoustic invisibility, where the tweeter itself cannot be localized as an individual driver.

As with other Performa models, each F52 is individually calibrated during production, hand-tuned to within a fraction of a decibel to the production reference standard, assuring unparalleled unit-to-unit consistency. Three physically separated high order, steep slope crossovers each feature tight tolerance components, and two pairs of inputs on the rear panel allow for bi-wiring or bi-amping, while a precision tweeter adjustment allows fine tuning of the high frequency balance in exact .5 dB increments.

The Performa F52 is available in your choice of elegant wood veneer finishes – Natural Cherry, Maple or Black Ash.



At left, the F52 driver complement:

6½-inch woofers

5½-inch midrange

1-inch tweeter

F52 crossovers

woofer

midrange

tweeter

F52 shown in Black Ash finish

The F52 rear panel tweeter level control and binding posts (shown with shorting straps)

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F32

Shown in  
Natural Cherry  
Finish

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# PERFORMa F32



The F32 combines large floor-standing loudspeaker performance in an elegant slim cabinet design with a small “footprint” for maximum placement versatility and high visual appeal. It features four magnetically-shielded proprietary drivers that offer a host of improvements in vital areas such as dynamics, distortion, and dynamic compression along with improved low-frequency reproduction and wider placement versatility.

The F32 features two high-performance 6½-inch woofers that provide the surface area of a much larger single driver and produce authoritative bass with tremendous output capability. Exclusive Organic Ceramic Compound cone material assures piston-like diaphragm operation, contributing to the very low distortion and freedom from coloration.

Sophisticated Dual Neodymium magnetic motor systems optimize linearity over a wide operating range, resulting in consistent timbre and low distortion over a wide dynamic range. These remarkable drivers also feature 2-inch high power-handling flat-wire edge-wound voice coils for unprecedented power handling capability and low distortion.

Virtually identical to the woofer except for size, the 5¼-inch midrange driver is optimized for the crucial midrange frequencies, providing remarkably smooth timbral response and wide dynamic range with vanishingly low distortion. The treble frequencies are faithfully reproduced by a newly-developed 1-inch pure titanium dome tweeter that features true pistonic behavior over its entire operating range and incorporates Ferrofluid® cooling.

Nearly half the width of its predecessor, the F32 cabinetry features tapered sides that provide a svelte appearance and improved placement flexibility, aided by a Contour setting for various in-room acoustical conditions as well as a Boundary setting that allows for near-wall and in-wall installations.

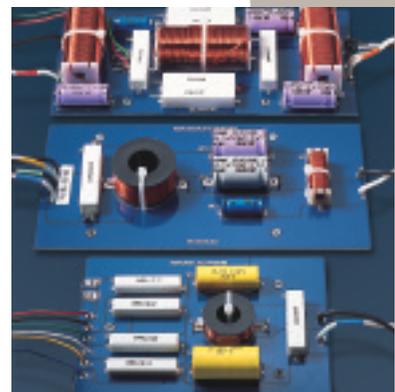
Each F32 is carefully calibrated to match the production reference standard to within a fraction of a decibel and is superbly finished in a choice of Natural Cherry, Maple or Black Ash wood veneer.

At left, the F32 driver complement:

6½-inch woofers

5¼-inch midrange

1-inch tweeter



F32 crossovers

woofer

midrange

tweeter



F32 shown in Maple finish



Rear panel with tweeter level control, low-frequency compensation control and binding posts

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M22

Shown in  
Maple Finish  
on optional  
pedestals

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# PERFORMa M22



Reviewed as “Class-A sound quality from a small loudspeaker,” the Performa M20 set the standard for state-of-the-art compact monitor performance. The new M22 continues to elevate the performance standard, featuring newly developed driver technology shared with the F32 floor-standing speaker system, along with a new slim cabinet design that allows tremendous placement versatility and high visual appeal.

Featuring a high power handling, magnetically-shielded 6½-inch cast-frame woofer incorporating Revel’s exclusive Organic Ceramic Composite Cone technology along with a substantial 2-inch diameter flat-wire edge-wound voice coil, the M22 woofer also includes a proprietary Dual Neodymium magnetic motor system for tremendous dynamic range and freedom from compression. This remarkable driver also features sophisticated magnetic flux focusing systems, comprising a copper modulation control cap as

well as an aluminum flux stability ring for unparalleled magnetic linearity and incredibly low distortion.

Treble frequencies are ably reproduced by our exclusive pure, magnetically-shielded 1-inch titanium dome wide dispersion tweeter, featuring an advanced co-polymer surround and Ferrofluid cooling, providing true piston behavior for reproduction beyond the limits of human hearing.

Internally, the M22 features physically separated high-order crossover boards that incorporate precise fixed-resistor, high-frequency level trimming, as well as a boundary compensation system that allows for optimum timbral response with either stand mounting or shelf mounting. During production, each M22 is individually calibrated to match the production reference standard to within a fraction of a decibel, assuring outstanding consistency and timbral accuracy.

The elegant cabinetry features gently tapered sides that visually suggest an even smaller appearance and is finished in a choice of Natural Cherry, Maple or Black Ash fine wood veneers. A beautifully designed optional black pedestal elevates the M22 to an ideal height and aesthetically matches the optional C32 pedestal.

At left, the M22 driver complement:

6½-inch woofer

1-inch tweeter



M22 crossovers

woofer

tweeter



M22 shown in Natural Cherry finish



Rear panel with placement compensation control, tweeter level control and binding posts

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C52

Shown in  
Maple Finish on  
optional pedestal

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# PERFORMa C52



As the most important reproducer in a multi-channel surround sound system, the center channel speaker must deliver vocals and dialog with the utmost clarity along with music and special effects, and must also match the tonality of the main left and right front speakers.

The Performa C52 center channel loudspeaker is the ideal companion to our F52 and F32 models, delivering a combination of tonal neutrality and outstanding dynamic range, fully up to the task of providing faithful reproduction with today's explosive movie soundtracks and high resolution multi-channel music sources, such as DVD-Audio and SACD.

Featuring a pair of 8-inch Organic Ceramic Composite cone high performance woofers, along with a 5 1/4-inch OCC cone midrange driver, the F52 also features our recently developed and proprietary Constant Acoustic Impedance tweeter waveguide technology. The 1-inch aluminum

dome tweeter is housed in the specially-shaped CAI waveguide, which provides optimum acoustic impedance loading along with precise horizontal and vertical dispersion. Together, these components contribute to the virtual acoustic invisibility of the tweeter, which cannot be localized as an individual driver, providing a seamless acoustic blend and a broad and expansive soundstage.

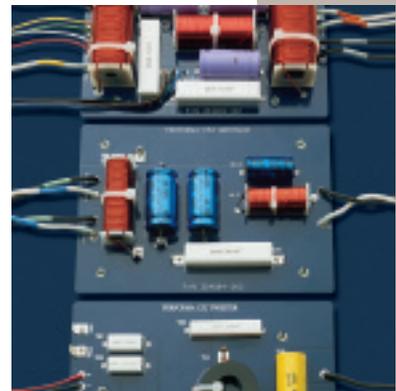
The three high order, steep slope crossovers are physically separated to prevent mutual interference, and each C52 is individually hand-tuned to within a fraction of a decibel to match the production reference standard. A rear panel control allows acoustic optimization for stand mounting, on-monitor, and in-cabinet placement. Another control provides high frequency level adjustment in .5 dB increments. The elegant cabinetry is available in your choice of Natural Cherry, Maple or Black Ash natural wood veneers.

At left, the C52 driver complement:

8-inch woofers

5 1/4-inch midrange

1-inch tweeter



C52 crossovers

woofer

midrange

tweeter



C52 shown in Natural Cherry finish



C52 Rear panel with placement compensation, high frequency level controls and binding posts

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C32

Shown in  
Black Ash  
Finish on optional  
pedestal

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# PERFORMa C32



The C32 mates with the F32 floor-standing loudspeaker and the M22 monitor. Featuring broad dispersion, low coloration and consistent off-axis response, the C32 is remarkably versatile, with an adjustable boundary compensation system that provides optimum timbral accuracy with on-monitor placement or stand mounting, and even for built-in-wall applications.

A three-way design, the C32 features a pair of 5¼-inch woofers and a 4-inch midrange; all magnetically-shielded and equipped with newly developed Organic Composite Ceramic cones for improved transparency, timbral accuracy, and freedom from distortion. Featuring a sophisticated Dual Neodymium magnet motor system, these drivers also incorporate large flat-wire edge-wound voice coils for maximum dynamic range and freedom from dynamic compression. A precision switched-resistor high frequency level control provides exact treble level tuning

for optimal high frequency balance from the 1-inch pure titanium dome tweeter.

Precise multi-element high-order crossovers are individually divided on separate circuit boards to prevent degradation due to component interaction. As with all Revel speaker systems, each C32 is individually tuned to match the production reference standard to within a fraction of a decibel, assuring outstanding consistency and optimal blend with other Revel speakers. Two sets of binding posts provide for bi-amping and bi-wiring as well.

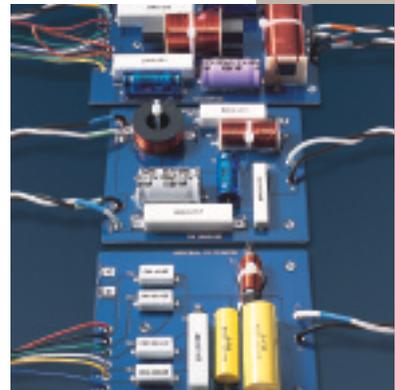
The elegant slim cabinet features sophisticated internal bracing that eliminates cabinet-induced coloration, and is available in a choice of three beautiful wood veneer finishes: Natural Cherry, Maple or Black Ash. An optional black pedestal raises the C32 off the floor and also provides optimal tilt toward the listening area.

At left, the C32 driver complement:

5¼-inch woofers

4-inch midrange

1-inch tweeter



C32 crossovers

woofer

midrange

tweeter



C32 shown in Maple finish



Rear panel with placement compensation, high frequency level controls and binding posts

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S30

Shown in  
Black Finish

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# PERFORMa S30



The versatile four-driver S30 surround speaker offers unmatched surround sound envelopment for both motion picture soundtracks and discrete multi-channel music recordings, providing a choice of dispersion patterns for optimum listening enjoyment. For movie soundtracks, the S30 provides, in its dipole mode, a diffuse sound field, enveloping the audience in an expansive, ambient surround environment, while minimizing speaker localization even with a large number of listeners. For discrete music recordings, the S30 features a monopole mode, providing the pinpoint imaging that discrete music surround mixes demand. The dispersion mode can be manually selected or activated remotely (depending on system configuration).

Featuring a high output 6½-inch woofer and a 1-inch metal dome tweeter, the S30 is also equipped with two 4-inch full-range drivers with dispersion characteristics optimized for consistent

sound throughout the listening area. The handsome cabinetry features angled baffles in a stylish three-panel configuration and can be wall or ceiling mounted using the integrated mounting system for maximum flexibility.

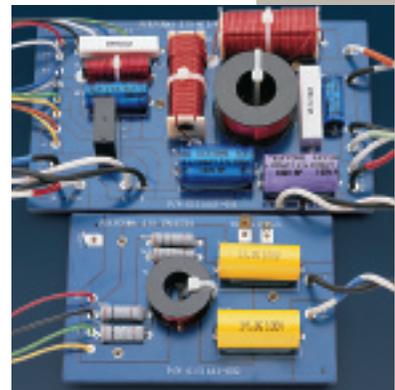
The S30's timbre is carefully tailored to blend seamlessly with all of the Performa loudspeakers, with extended and airy high frequency response to beyond 20kHz.

The S30 is available in either a black or white finish — to integrate easily with dark or light colored room décor.

The versatile S30 surround speaker can be integrated with select A/V processors or control systems to enable automatic dispersion switching, customized to the user's preferences for various program sources.

At left, the S30 driver complement:

6½" woofer  
4" full-ranges  
1" tweeter



S30 crossovers

woofer

tweeter



One of two 4-inch controlled dispersion drivers



Rear panel with binding posts and monopole/dipole remote switch connection

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B15a

Shown in  
Natural Cherry  
Finish

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# PERFORMa B15a



Power. Authority. Control.

The Performa B15a subwoofer features unique Revel advantages that no other subwoofer provides, for authoritative low frequency reproduction. Featuring a massive long-excursion, 15-inch driver that is equipped with an inverted metal dome that delivers incredible acoustic output at the very lowest deep bass registers, the B15a's prodigious deep bass capabilities will do justice to the most explosive movie soundtracks, as well as the newest generation of high resolution music formats, such as DVD-Audio and Super Audio Compact Disc (SACD). A built-in 1,000-watt power amplifier featuring a tremendous 40% reserve capacity powers the 15-inch driver, delivering up to 1.4 kilowatts to handle the most thunderous special effects and the lowest musical octaves.

Revel's extensive research into room acoustics has revealed that even a theoretically ideal subwoofer would fail to provide accurate deep bass response due to the fact that the mere placement of the subwoofer within the confines

of any listening room introduces significant and degrading response variations caused by room-induced resonances.

Conventional subwoofer crossover frequency and level controls alone cannot compensate for these inevitable and inescapable timbre response irregularities. Therefore, the Performa B15a subwoofer is equipped with a sophisticated tuning system featuring a three-band parametric equalizer that allows room-induced resonance peaks to be tamed. This smooths the response dramatically and delivers tuneful and musical low bass reproduction without the boomy and irritating "one-note" bass response typical of conventional subwoofers. Fully adjustable high- and low-pass filters with adjustable slopes are also provided to allow the B15a to seamlessly mate with virtually any combination of loudspeakers with adjustment flexibility beyond what is typically provided in surround processors.

The B15a also includes adjustable spikes for different floor types and is available in a choice of elegant wood veneer finishes: Natural Cherry, Maple or Black Ash.

At left, the B15a driver



B15a rear panel



The B15a shown in Maple finish



Driver detail without grille

All Performa loudspeakers, except the S30, are available in Natural Cherry, Maple or Black Ash veneer finish, as shown below.\* The S30 is available in black or white finish with matching grilles (not shown).

# PERFORMa

## SPECIFICATIONS

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### Sensitivity

Sensitivity provides an indication of how much amplifier power is required for the loudspeaker to play at satisfactory volume levels. Conservatively rated specifications indicate moderate sensitivity and denote that Revel loudspeakers do not require huge amplifiers to achieve realistic levels in all but the largest rooms. 4 pi anechoic represents testing done in a true anechoic (echo or reflection-free) listening environment.

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### Impedance

Impedance indicates whether the speaker system presents a “hard” or “easy” load on the amplifier. Moderate minimum impedance values and phase angles signify that almost any amplifier can easily drive Revel Performa loudspeakers.

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### Filters (crossover)

Steep filter slopes ensure good acoustical behavior in the crossover regions, with a minimum of acoustical interference, along with low distortion and wide dynamic range. Revel filters feature specially selected components. Woofer and tweeter filter boards are physically independent. F52, F32 and C32 models include a provision for bi-amping or bi-wiring, while all models include rear panel compensation controls.

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### Frequency responses

In-room response is a breakthrough measurement that, in a single curve, closely correlates to sound quality and has been a goal of loudspeaker engineers for years. Research, and simple observation, reveals that ubiquitous “on-axis” response curves often cannot distinguish between two loudspeakers with radically different sound quality. This specification for Revel loudspeakers is even more powerful when it is taken in context with the other measurements presented here.

A target response is the ideal response goal and is not flat at the frequency extremes and is used when the ideal reference is not a “flat” line. A target response must be tailored to the loudspeaker’s intended application and takes into account the acoustic impact of the loudspeaker’s location, such as freestanding or placement near a wall.

First reflections response is a measure of the response a listener hears that is contributed by the first reflections from the walls, floor, and ceiling. This superb specification indicates that Revel loudspeakers will remain accurate even in the presence of strong reflections.

The listening window response (on-axis) measurement reduces the visual confusion of inaudible local interference, yet still retains full accuracy without using “spectral smoothing” which results in significant data loss.

Studies have shown that the -10 dB low frequency extension specification is the one that best correlates to controlled listening tests. At low frequencies, most loudspeaker/room combinations exhibit significant “room gain,” which is an increasing rise in level as frequencies decrease. In addition, the -10 dB specification reflects the steepness (i.e., order) of the low-frequency roll-off, which is not significantly indicated in -3 dB specifications.

\*Cabinet finish representation is subject to the limitations of the full-color printing process. Actual cabinet finishes may vary.



### PERFORMA F52

<b>Sensitivity:</b>	87.5 dB SPL, with 2.83 V <sub>rms</sub> @ 1 m (4 pi anechoic)
<b>Impedance:</b>	6.5 Ω (nominal), 3.5 Ω (minimum @ 373 Hz)
<b>Filters (crossover):</b>	3-way, high-order, acoustic response @ 200 Hz and 2.3 kHz
<b>Frequency responses:</b>	<b>In-room response;</b> ±0.5 dB from 33 Hz to 18 kHz
	<b>In-room response relative to target response;</b> ±0.5 dB from 31 Hz to 20 kHz
	<b>First reflections response;</b> ±0.5 dB from 33 Hz to 17 kHz
	<b>Listening window response;</b> ±1.0 dB from 32 Hz to 18 kHz
	<b>Low frequency extension;</b> -10 dB @ 23 Hz
	<b>Bandwidth</b> -6 dB @ 25 Hz and 45 KHz
<b>Dimensions:</b>	width: 9½" (24.1 cm)
	height: 43⅝" (111.6 cm)
	depth: 17½" (44.5 cm) (includes grille)
	Spikes add 1½" (3.81 cm) to height
<b>Weight:</b>	87.7 lb (39.8 kg) net (without packing)

Specifications are subject to change  
without notice.



### PERFORMA F32

<b>Sensitivity:</b>	86 dB SPL, with 2.83 V <sub>rms</sub> @ 1 m (4 pi anechoic)
<b>Impedance:</b>	6.5 Ω (nominal), 3.7 Ω (minimum @ 260 Hz)
<b>Filters (crossover):</b>	3-way, high-order @ 190 Hz and 2.7 kHz
<b>Frequency responses:</b>	<b>In-room response;</b> ±1.0 dB from 33 Hz to 16 kHz
	<b>In-room response relative to target response;</b> ±0.75 dB from 34 Hz to 20 kHz
	<b>First reflections response;</b> ±1.0 dB from 33 Hz to 15 kHz
	<b>Listening window response;</b> ±1.5 dB from 31 Hz to 16 kHz
	<b>Low frequency extension;</b> -10 dB @ 24 Hz
	<b>Bandwidth</b> -6 dB @ 26 Hz and 50 KHz
<b>Dimensions:</b>	width: 8¾" (22.2 cm) height: 41½" (105.4 cm) depth: 15¼" (38.7 cm) (includes grille)  Spikes add 1½" (3.8 cm) to height
<b>Weight:</b>	70 lb (31.7 kg) net (without packing)

Specifications are subject to change without notice.



### PERFORMA M22

<b>Sensitivity:</b>	85 dB SPL, with 2.83 V <sub>rms</sub> @ 1 m (4 pi anechoic)
<b>Impedance:</b>	6.4 Ω (nominal), 4.8 Ω (minimum @ 160 Hz)
<b>Filters (crossover):</b>	2-way, high-order, @ 2.2 kHz
<b>Frequency responses:</b>	<b>In-room response;</b> ±1.0 dB from 52 Hz to 16 kHz
	<b>In-room response relative to target response;</b> ±0.75 dB from 46 Hz to 20 kHz
	<b>First reflections response;</b> ±1.5 dB from 50 Hz to 15 kHz
	<b>Listening window response;</b> ±1.5 dB from 45 Hz to 16 kHz
	<b>Low frequency extension;</b> -10 dB @ 36 Hz
	<b>Bandwidth;</b> -6 dB @ 41 Hz and 50 KHz
<b>Dimensions:</b>	width: 8 <sup>5</sup> / <sub>8</sub> " (21.9 cm) height: 14 <sup>1</sup> / <sub>2</sub> " (36.8 cm) depth: 11 <sup>7</sup> / <sub>8</sub> " (30.2 cm) (includes grille)
	<b>With optional pedestal</b> width: 9 <sup>3</sup> / <sub>8</sub> " (23.8 cm) height: 39 <sup>5</sup> / <sub>16</sub> " (101.4 cm) depth: 11 <sup>7</sup> / <sub>8</sub> " (30.2 cm) (includes grille)
<b>Weight:</b>	24 lb (10.8 kg) net (each, without packing)
	<b>With optional pedestal</b> 42 lb (18.9 kg) net (each, without packing)
Specifications are subject to change without notice.	



**PERFORMA C52**

<b>Sensitivity:</b>	90 dB SPL, with 2.83 V <sub>rms</sub> @ 1 m (4 pi anechoic)
<b>Impedance:</b>	6 Ω (nominal), 3.1 Ω (minimum) @ 292 Hz
<b>Filters (crossover):</b>	3-way, high-order acoustic response @ 235 Hz and 2 kHz
<b>Frequency responses:</b>	<b>In-room response;</b> ±0.5 dB from 65 Hz to 18 kHz
	<b>Target response;</b> ±0.5 dB from 60 Hz to 20 kHz
	<b>First reflections response;</b> ±0.5 dB from 70 Hz to 17 kHz
	<b>Listening window response;</b> ± 1.0 dB from 65 Hz to 18 kHz
	<b>Low frequency extension;</b> -10 dB @ 36 Hz
	<b>Bandwidth;</b> -6 dB @ 49 Hz and 45 KHz
<b>Dimensions:</b>	<b>Without spikes*</b> width: 24 <sup>5</sup> / <sub>8</sub> " (62.6 cm) height: 10 <sup>7</sup> / <sub>8</sub> " (27.6 cm) depth: 10 <sup>9</sup> / <sub>16</sub> " (26.8 cm) (includes grille)
	<b>With optional pedestal</b> width: 24 <sup>5</sup> / <sub>8</sub> " (62.6 cm) height: 23" (58.4 cm) depth: 11 <sup>1</sup> / <sub>16</sub> " (29.1 cm) (includes grille)
<b>Weight:</b>	40.75 lb (18.5 kg) net (without packing)
	<b>With pedestal</b> 58.75 lb (29.9 kg) net (without packing)
Specifications are subject to change without notice.	

\*Refer to user guide for details on spikes



### PERFORMA C32

<b>Sensitivity:</b>	86.5 dB SPL, with 2.83 V <sub>rms</sub> @ 1 m (4 pi anechoic)
<b>Impedance:</b>	5.8 Ω (nominal), 3.3 Ω (minimum) @ 80 Hz
<b>Filters (crossover):</b>	3-way, high-order @ 300 Hz and 2.7 kHz
<b>Frequency responses:</b>	<b>In-room response;</b> ±1.0 dB from 70 Hz to 16 kHz
	<b>In-room response relative to target response;</b> ±0.75 dB from 90 Hz to 18 kHz
	<b>First reflections response;</b> ±1.0 dB from 75 Hz to 15 kHz
	<b>Listening window response;</b> ± 1.5 dB from 67 Hz to 15 kHz
	<b>Low frequency extension;</b> -10 dB @ 38 Hz
	<b>Bandwidth;</b> -6 dB @ 51 Hz and 44 KHz
<b>Dimensions:</b>	<b>Without spikes*</b> width: 21" (53.3 cm) height: 8½" (21.6 cm) depth: 9" (22.9 cm) (includes grille)
	<b>With optional pedestal</b> width: 21" (53.3 cm) height: 20" (50.8 cm) depth: 11⅞" (29.1 cm) (includes grille)
<b>Weight:</b>	30 lb (13.6 kg) net (without packing)
	<b>With pedestal</b> 48 lb (21.8 kg) net (without packing)

Specifications are subject to change without notice.

\*Refer to user guide for details on spikes



### PERFORMA S30

<b>Sensitivity:</b>	90 dB SPL, with 2.83 V <sub>rms</sub> @ 1 m (2 pi anechoic)
<b>Impedance:</b>	<b>Monopole mode;</b> 6 Ω (nominal), 3 Ω (minimum) @ 3.6 kHz <b>Dipole mode;</b> 6 Ω (nominal), 3 Ω (minimum) @ 355 Hz
<b>Filters (crossover):</b>	<b>Monopole mode;</b> 2-way, high-order, in-phase @ 2.5 kHz <b>Dipole mode;</b> 2-way, high-order @ 250 Hz
<b>Frequency responses:</b>	<b>In-room response;</b> ±1.5 dB from 85 Hz to 16 kHz <b>In-room response relative to target response;</b> ±0.75 dB from 80 Hz to 20 kHz <b>First reflections response;</b> ±1.75 dB from 84 Hz to 14 kHz <b>Listening window response;</b> ±1.5 dB from 85 Hz to 18 kHz <b>Low frequency extension;</b> -10 dB @ 50 Hz <b>Bandwidth;</b> -6 dB @ 65 Hz and 42 KHz
<b>Dimensions:</b>	width: 14 <sup>5</sup> / <sub>16</sub> " (36 cm) height: 12 <sup>1</sup> / <sub>2</sub> " (31.7 cm) depth: 8 <sup>3</sup> / <sub>16</sub> " (21.2 cm) (includes grilles)
<b>Weight:</b>	36 lb (16 kg) per pair net (without packing) 18 lb (8 kg) individual net (without packing)

Specifications are subject to change without notice.



Revel **I30 & I20** in-wall speakers also available for surround speaker applications.

For more information, please visit  
[www.revelspeakers.com/iseries](http://www.revelspeakers.com/iseries)



**PERFORMA B15a****SUBWOOFER**

<b>Low frequency extension:</b>	-3 dB @ 18 Hz (up to full-rated power)
<b>Frequency response:</b>	20 Hz to $f_c \pm 0.5$ dB, -3 dB @ 18 Hz
<b>True linear volume displacement:</b>	275 in <sup>3</sup>
<b>Dimensions:</b>	width: 17 $\frac{3}{4}$ " (45.1 cm) height: 18 $\frac{3}{4}$ " (47.6 cm) depth: 18 $\frac{5}{16}$ " (46.5 cm) (includes grille) Spikes add 1 $\frac{1}{2}$ " (3.8 cm) to height
<b>Weight:</b>	110 lb (49.9 kg) net (without packing, includes amplifier)

**AMPLIFIER**

<b>Output power:</b>	At least 1,000 W <sub>rms</sub> 1,400 W peak
<b>Equalization:</b>	<b>Type;</b> Three independent parametric equalizers <b>Frequency;</b> Continuously variable from 18 to 80 Hz <b>Bandwidth;</b> Continuously variable from 0.1 to 1 octave <b>Level;</b> Continuously variable from -14.5 to +6 dB
<b>Low-pass filter:</b>	<b>Type;</b> Low-pass with ON/OFF switch <b>Slope;</b> Selectable 24 or 48 dB per octave <b>Frequency;</b> Selectable @ 30, 40, 50, 60, 70 or 80 Hz <b>Phase;</b> Continuously variable from 0 to 180° <b>Level;</b> Continuously variable
<b>High-pass filter:</b>	<b>Type;</b> High-pass, always on <b>Slope;</b> Selectable 12 or 24 dB per octave <b>Frequency;</b> Selectable @ 30, 40, 50, 60, 70 or 80 Hz
<b>Inputs:</b>	Left and right balanced (XLR) and unbalanced (RCA) line level
<b>Outputs:</b>	Left and right balanced (XLR) and unbalanced (RCA) high-pass line level to main amplifier  Left and right balanced (XLR) and unbalanced (RCA) high-pass line level to auxiliary components
<b>Power:</b>	Switch: OFF or Auto-ON

Specifications are subject to change without notice.





F52



F32



M22



C52



C32



S30



B15a

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Beyond the enjoyment of one of

the world's most highly prized

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REVEL®

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