

GUITAR & BASS SPEAKERS

NEW

G12-100
RAVEN

More Metal,
Lighter Weight

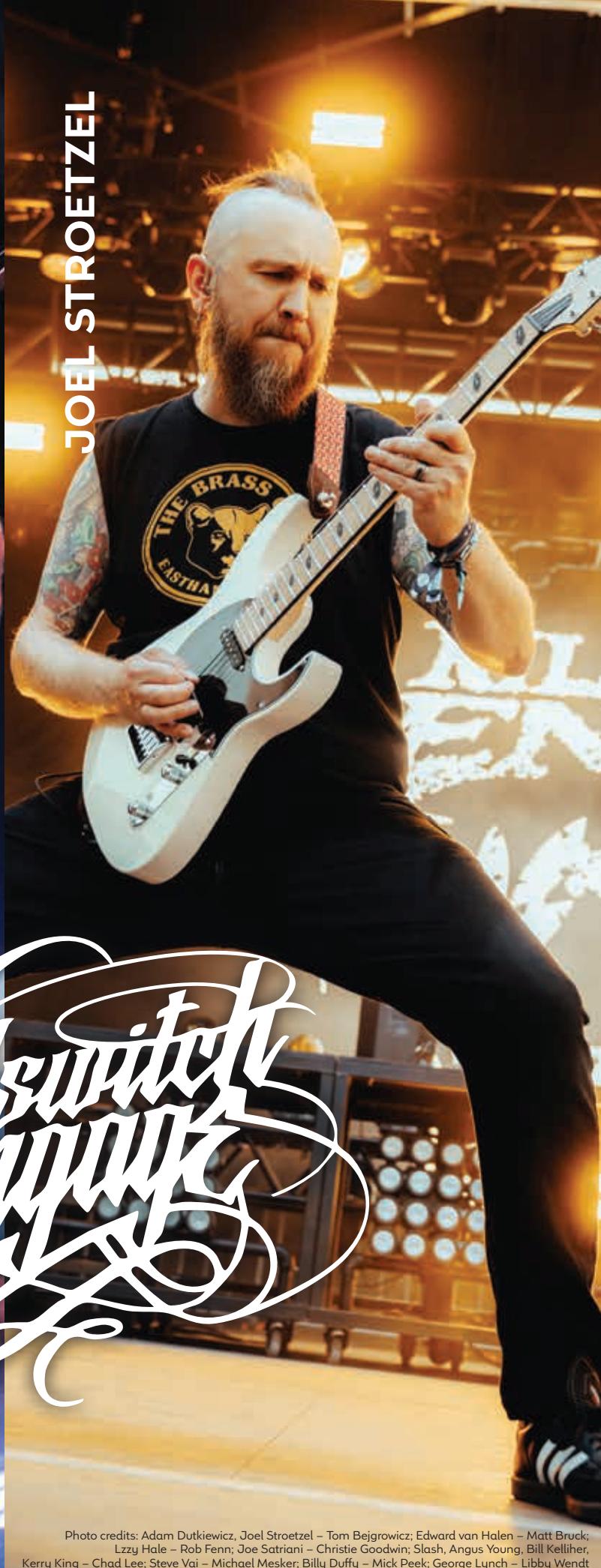


40
YEARS
OF THE
Vintage 30

ADAM D



JOEL STROETZEL



Killswitch Engage

Photo credits: Adam Dutkiewicz, Joel Stroetzel – Tom Bejgrowicz; Edward van Halen – Matt Bruck; Lzzy Hale – Rob Fenn; Joe Satriani – Christie Goodwin; Slash, Angus Young, Bill Kelliher, Kerry King – Chad Lee; Steve Vai – Michael Mesker; Billy Duffy – Mick Peek; George Lynch – Libby Wendt

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We're immensely grateful to everyone who picks up a guitar or bass and chooses to play through a Celestion speaker. Our speakers have been the first choice for a host of players and performers since the early days of Rock n' Roll and that tradition continues to this day, almost 70 years later.

We celebrate that fact with our Partners in Tone, a truly varied group of professional players who represent an expansive range of genres and playing styles. Of course they all have one thing in common, as endorsing artists they've chosen to be part of the Celestion family and this year's issue of the Guitar catalogue showcases many of those talented players. (In particular we'd like to give a shout out to Adam and Joel of Killswitch Engage and our friends at Unchained Management for giving us access to such excellent photography, so good we had to put it on the inside front cover!)

This year sees the return of the Heritage Series: speakers built to sound and look like some of our earliest and most beloved guitar speakers. We've brought back the two Heritage Series versions of the G12H (with 55Hz and 75Hz bass resonance). We've also added a G12M with 55Hz resonance to the range, (often referred to as the Blackback, and originally released as T1511), because you asked us to.

That's not to overshadow our all-new, latest release, the G12-100 Raven. Cloaked all in black and light as a feather (well, almost) the Raven features an innovative design ceramic magnet assembly built to remove a considerable amount of weight while still delivering the heaviest of modern metal tones.

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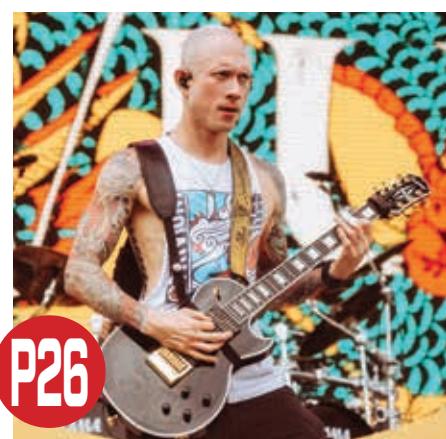
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The **NEW** G12-100

RAVE

UNLEASH THE NIGHT AND STEP INTO
THE REALM OF CRUSHING TONE.

The Celestion Raven is more than just a speaker—it is the harbinger of your most aggressive sound.

Cloaked in shadow and built for devastating power, its new lightweight ceramic magnet supplies all the heft you could possibly need without weighing down your cab.

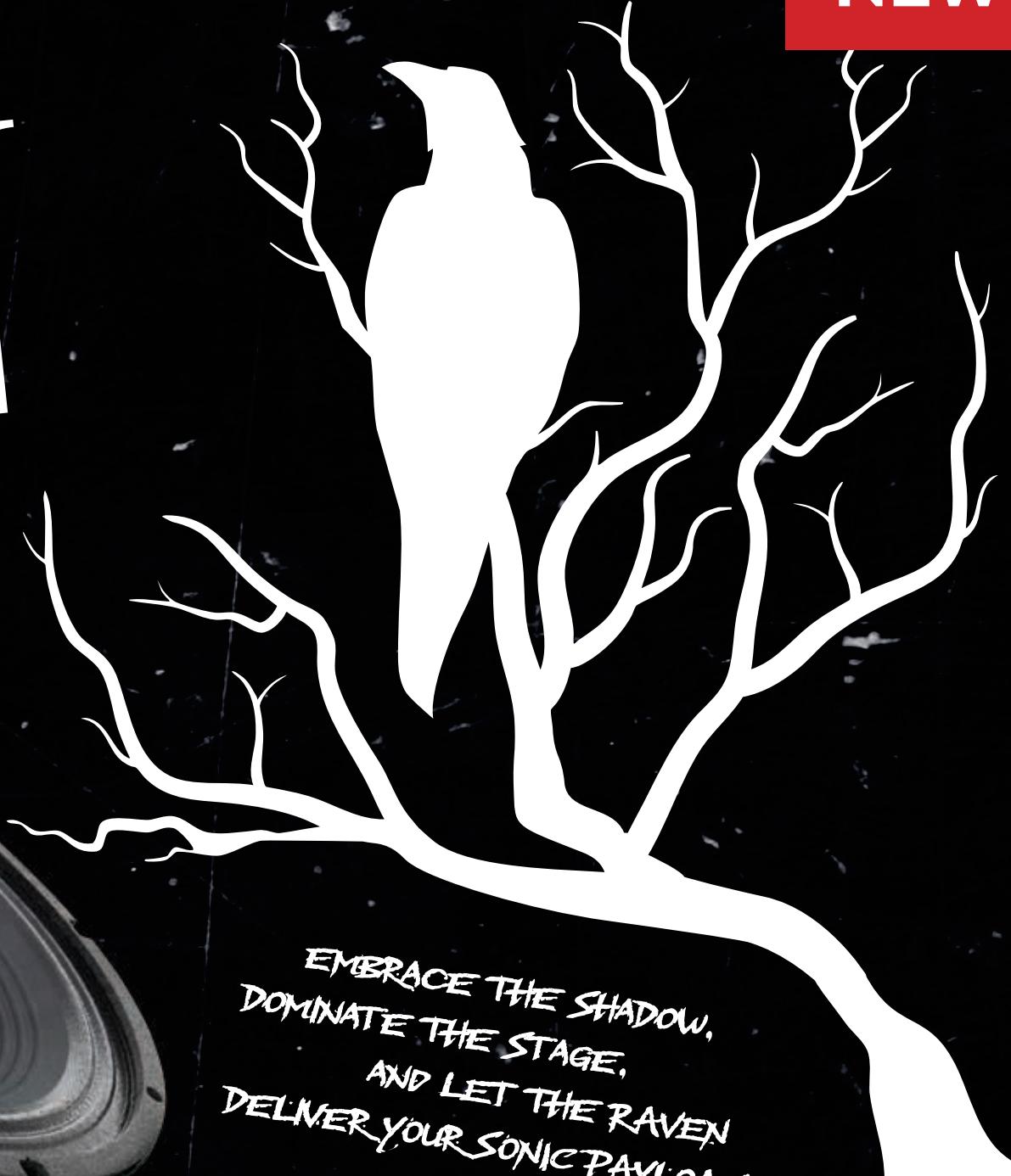
At the beating heart of Celestion's new-design motor assembly is a ceramic magnet: reimagined to massively lower the speaker's weight without affecting the huge magnetic forces that power this gargantuan tone machine.

Forces that are plenty big enough to drive a 2-inch voice coil, promising a treble which is defined, without ever being brittle or harsh and the deepest, most bone crushing low-end that a modern metal player could hope for.



NEW

N



EMBRACE THE SHADOW,
DOMINATE THE STAGE,
AND LET THE RAVEN
DELIVER YOUR SONIC PAYLOAD!

G12-100 RAVEN

12"
305mm

2"
Voice Coil

100
Watts

8/16
Ohm

100
dB

2.5
kg

5.5
lb



Boasting a formidable 100W power rating, and a new-design, low-weight magnet structure, the Raven is engineered with the modern metal player in mind: ready to handle crushing high-gain lead lines and seismic low-end riff-work. Beyond the raw power lies a truly premium tone, delivering a detailed mid-range punch, brooding highs, and a firm, authoritative low end.

Heritage SERIES

Back by popular demand, the Celestion Heritage Series speakers are faithful re-creations of the genre-defining drivers that stacked up behind the most influential guitar players of the 60s and 70s.

The Celestion Heritage process identifies the most desirable version of a driver from a given point in time, and sets about the painstaking process of regressing the speaker development back to its origins to recapture the particular sonic qualities of the era.

Using original blueprints and materials specifications, no stone is left unturned in pursuit of the original sound. Adhesives and edge treatments that are no longer commercially available are reformulated. Magnet assemblies and coil formers that have been

changed or re-designed over time, are once again produced exactly as they were. Finally, authentic labels are used to bring these exquisite old speakers to life once again.



NEW G12M (55)

Celestion Blackbacks are well known as 1970s variations of Greenback speakers. The reason for the change in can colour is lost in the mists of time, but arguably the most celebrated Blackback of all is T1511: the G12M with 55Hz 'bass cone'.

Inextricably linked with players such as Free's Paul Kossoff, whose famously sweet sustain lasted for miles, T1511 is the very essence of Celestion tone: bringing together punch, sparkle and a midrange you just might not be able to live without.

12"
305mm

1 3/4"
Voice Coil

25
Watts

8/15
Ohm

96
dB



G12H (55) / G12H (75)

12" 305mm 1 3/4" Voice Coil 30 Watts 8/15 Ohm 100 dB

It's hard to escape the sound of the G12H, just listen to any Hendrix recording and chances are you'll be hearing a whole raft of them powering the guitar out of the mix.

These faithful re-creations capture the unmistakeable mojo of late 60s rock guitar tones. Unsurpassed in a 4x12 for cranking out towering, huge power chords, the Heritage Series G12H (55) features the 55c/s 'bass' cone. This model is famous for its thick syrupy tones, with a deep growling back end, densely complex midrange and a finely detailed top end.

The Heritage Series G12H (75) features a 75 c/s 'lead' cone for an alternative tonal balance that places a little less emphasis on bass frequencies. Choose this version if you prefer a tighter bottom end with a punchy upper mid-range and sparkling highs.



G12-65

12" 305mm 1 3/4" Voice Coil 65 Watts 8/15 Ohm 97 dB

With its fast attack and tightly controlled low-end, the G12-65 became a firm favourite with hard rock players by the early 80s, particularly in 4x12s. And still today, the precisely tuned mid-range and crisp defined top-end contribute to an aggressive crunch sound that punches through the mix while the mid-range warmth and detail give weight and depth to single notes.



G12EVH EDDIE VAN HALEN SIGNATURE SPEAKER

12" 305mm 1 3/4" Voice Coil 20 Watts 8/15 Ohm 96 dB

In the studio or on the stage, the Celestion 20-watt 'Greenback' has played an essential role to Edward Van Halen in making the tones that rewrote the book on guitar sound. With the addition of a black rear can featuring the EVH logo and his unmistakable red, white and black stripes, the G12EVH was born. Unmistakable look but, more importantly, unmistakable tone.

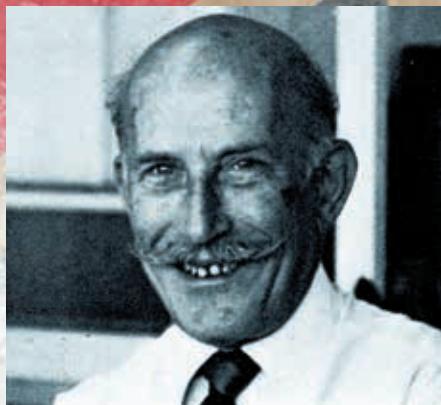
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CELEBRATING A LEGENDARY GU

Meticulously hand-crafted in the UK, the Celestion 100 celebrates the world's first purpose-built guitar loudspeaker which, in various guises, has voiced some of the most legendary and memorable riffs and solos of all time.

Invented in 1936 as a radio speaker, the general purpose 'G12' was used in many applications. Several versions including the G44, CT3757 and B024—all built with alnico magnets and in colours such as silver, 'poly grey' and 'hammertone oyster'—were manufactured during the late 1950s as the speaker began to be deployed in the guitar amplifiers of the time. But as amplified music got louder, more robust speakers were needed to keep up with the demand for increased power.

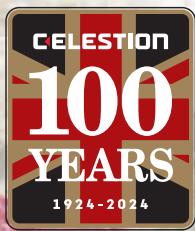


LES WARD
Celestion Chief Engineer until 1979

In 1959 Celestion Chief Engineer Les Ward created a specially toughened version of the G12 to withstand more heat and mechanical vibration. This speaker evolved into the T530 Alnico Blue: the world's first speaker designed specifically for use with guitar amplifiers. Installed in Vox AC15 and AC30



GUITAR SPEAKER



amplifiers, the speaker was instantly recognisable with its iconic azure blue livery. Soon after, the toughened G12 was also adopted by Marshall Amplification, given a more traditional silver paint job and, as T652, used in legendary Marshall cabinets including the 1962 'Bluesbreaker' combo amp.

Referencing our own collection of early alnico speakers, the Celestion 100 is born of a painstaking research and development process, analysing, understanding and then replicating the very essence and tone of these exquisite collector's items. Each detail has been carefully considered to ensure the sonic character of the 100 is completely in keeping with those late

1950s designs. An all-new cone has been formulated and then benchmarked against our vintage cones. A carefully measured amount of thin and light edge treatment is applied to protect and enhance the cone's operation which is then matched with a vintage-look dust dome for absolute authenticity.

Exceptional tonality is further assured with the development of a new voice coil based on Les Ward's original T530 design, which has been re-imagined using today's more heat-resistant materials to offer an enhanced power rating of 30W. A bolt-on magnet assembly with period-correct label completes a speaker that looks as great as it sounds.



100

Expect a blooming low end and bell-like chiming treble together with a sweet, shimmering presence. The 100 compresses beautifully when pushed to distortion, with a glorious, damped attack that is the trademark of the great Celestion Alnico guitar speakers.

12"
305mm

1 3/4"
Voice Coil

30
Watts

8/16
Ohm

100
dB

CELESTION



From the 60s to the present day, the unmistakable sound of the Celestion Alnico magnet guitar speaker with its trademark laid back attack continues to shape popular music. Back then, we answered the call from our friends at Vox and Marshall for a dedicated guitar speaker which became the now-famous 'Blue'. That speaker has gone on to inspire a complete range of speakers designed to deliver the much-loved Celestion Alnico character with a variety of tonal flavours and power ratings.

BLUE

12" 305mm
1 3/4" Voice Coil
15 Watts
8/15 Ohm
100 dB

The legendary Blue is widely acknowledged as the benchmark for guitar speaker perfection. Noted for its high-frequency brilliance and sparkle, the upper mids sing, the low mids are slightly scooped and the bass perfectly rounded. It's a speaker that evokes rich definition, developing a beautiful, musical compression when pushed.

PARTNERS IN TONE

Zach Myers Shinedown

Brian May Queen



CREAM

12"
305mm

1 3/4"
Voice Coil

90
Watts

8/16
Ohm

100
dB



GOLD

12"
305mm

1 3/4"
Voice Coil

50
Watts

8/15
Ohm

100
dB

Bringing a modern edge to the Celestion Alnico range, the Gold is defined by softer high-frequencies with a more defined upper-mid vocal character. With strong projection in the lows and low-mids, the Gold is recognised as the punchiest of the Alnicos, perfect for huge rhythm voicings and saturated vocal lead tones.



G10 GOLD

10"
254mm

1 3/4"
Voice Coil

40
Watts

8/15
Ohm

98
dB

The mellowness of the original Blue, with the speed and response of a 10" driver. The G10 Gold blends unmistakable Alnico class with a rich low-end, creamy mid-range and vintage chiming top-end. It is springy, warm, revealing and highly expressive adding a classy sheen to any amp with depth and shimmer.



RUBY

12"
305mm

1 3/4"
Voice Coil

35
Watts

8/16
Ohm

100
dB

Bringing the instantly familiar, broken-in Celestion Alnico vibe, the Ruby is recognised as the warmest of the Celestion Alnicos, oozing a richly musical vintage warmth, with mellow highs and a smooth, vintage midrange. And at 35-watts power handling, it's ideal for use with mid-powered amps and combos.

40 YEARS OF THE *Vintage 30*

In 1986 we said of the Vintage 30, “Celestion has re-established the standard by which all other guitar speakers are judged.” Big talk back then for a brand-new product! But still going strong 40-years later and with more than two million sold, who could possibly argue?

Originally developed for the Marshall Studio 15 combo, the plan was to build a speaker that was tonally similar to an alnico speaker, but with a more cost-effective ceramic magnet (at the time, Alnico was eye-wateringly expensive) and a heftier power rating.

In developing the Vintage 30, project engineer Ian White made pioneering use of Laser Doppler Interferometry, cutting-edge technology in the 1980s,

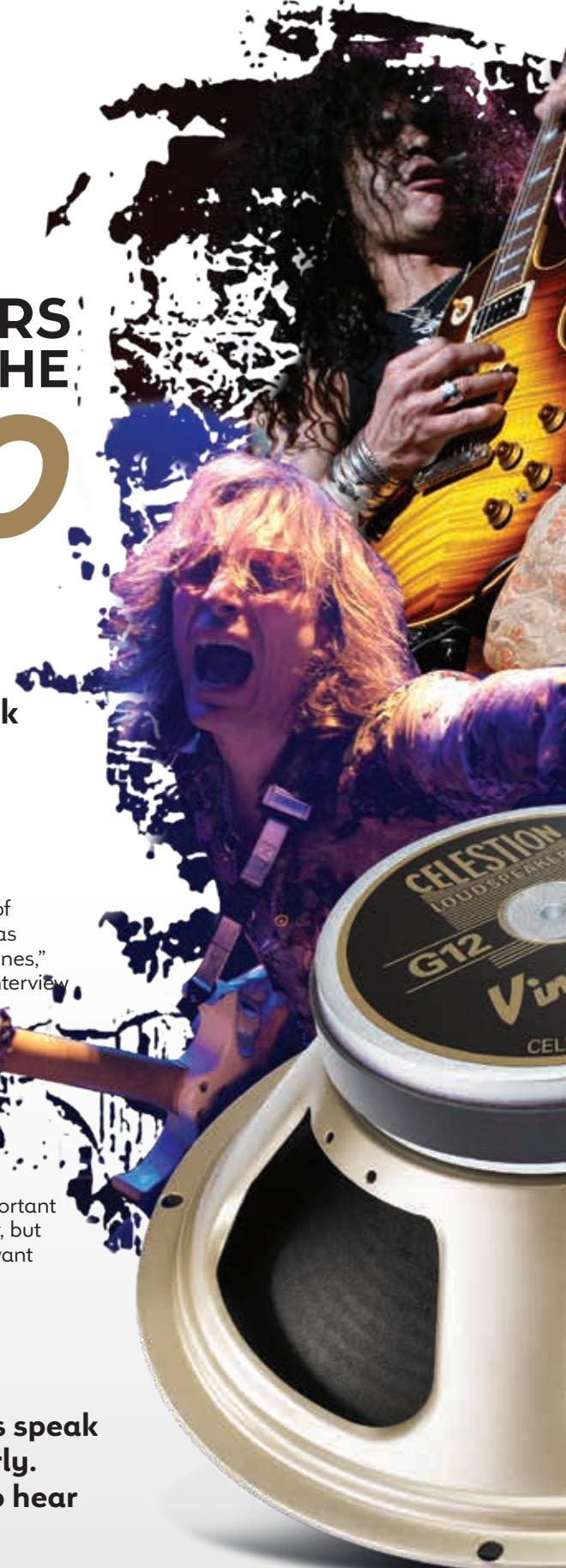
to analyse the cone behaviour of an original Celestion Blue. “It was especially good at looking at cones,” remembered White during an interview in 2023. “We used that data to form a precise model of the vintage speaker’s characteristics.”

The original Blue also featured a paper voice coil former which was an important factor in the tone of the speaker, but this posed a problem. “I didn’t want to use paper because of the risk

“

Celestion speakers speak honestly and clearly. They enable me to hear what I’m thinking.

Steve Vai



PARTNERS IN TONE

Slash
Steve Vai
Matt Heafy Trivium

“

I've been using Celestion Vintage 30 speakers my whole career and can't imagine using anything else.

Slash, Guns N' Roses

of fire" explained White. "There was an alternative material we hadn't tried but had been used previously in HiFi speakers. So, I started making prototypes with this instead." This synthetic 'meta-aramid' material not unlike Kevlar® had stiffness properties more similar to paper, but with higher heat dissipation, enabling greater power handling while preserving much of the desired tonal characteristic.

Celestion's Heavy magnet came closest in performance to Alnico and, bringing this together with the newly created cone assembly and voice coil, a true modern vintage speaker was born. It soon became clear that this was no ordinary guitar speaker: capable of

Scott Le Page
Polyphoria



articulating the complex and blistering lead lines of the time along with the ability to handle the ever-increasing amplifier outputs with effortless clarity and an endlessly satisfying punch and grind.



VINTAGE 30

This legendary speaker features enormously detailed and complex overtones, a warm low-end, a famously rich, vocal mid-range and a beautifully detailed top-end. It reveals the complexities in hand-wired boutique amps and exhibits a wonderfully intricate, three-dimensional vintage crunch.



12"
305mm

1 3/4"
Voice Coil

60
Watts

8/16
Ohm

100
dB

REVERZ TO LOWE CELE



As the blues-infused 70s gave way to the harder rocking 80s, the only thing higher than the guitar amp gain was the hairstyles.

And so a new range of speakers evolved, capable of articulating the complex, overdriven sounds and blistering lead lines of the time, with the ability to handle increasingly high amplifier outputs.

G12H ANNIVERSARY

With a strong, aggressive low-end and powerful low-mids, the G12H penetrates any mix with an attacking upper mid-range and an ice-cool top-end. Used singly or in quartets it provides serious attitude and swagger to soft amp tones, easily cutting through loud stage levels for chord work, and imparting a hard edge to single notes.

G10 GREENBACK

Recapturing the legendary sound of Celestion's 10-inch speakers from the 1970s, the G10 Greenback delivers a surprisingly meaty tone. Low in output but with the weighty low-end balance of a 12", it features a complex mid-range and smooth, vintage top-end. In small combos this speaker adds real class, and in a 4x10 gives rise to a raunchy, full-bodied tone, rich in low-end thump.

12"
305mm

1 3/4"
Voice Coil

30
Watts

8/16
Ohm

100
dB

10"
254mm

1 3/4"
Voice Coil

30
Watts

8/16
Ohm

95
dB



G12M GREENBACK

The G12M Greenback has evolved over the decades but still retains its essential, sought-after tone. This model is voiced with additional broad mid-range attack and restrained top-end to give a forward, punchy attitude to chords and a searing lead tone without fizz. With its well-controlled low-end it can be used singly in low-powered amps, or in multiples for high-power rock heads, bringing drive and definition to modern high gain amps. notes.

12"
305mm

1 3/4"
Voice Coil

25
Watts

8/16
Ohm

98
dB

G10 VINTAGE

With the fast response of a 10" but with the strong and creamy vocal tones of a 12", the G10 packs an impressive punch and is the ideal choice to add depth to hollow-sounding amps, or for players who want to get humbucker-type girth from single-coils. Can be used singly to add vocal warmth to small valve combos, or in quartets for a weightier but still lively attack.

Featured in the world's top selling 4x12 cabinet, the G12T-75 combines a huge, tightly controlled low-end and aggressive mid-range with a softened top-end that adds a welcome sweetness to overdrive, distortion and aggressive upper harmonics. A high powered rock player's dream come true.

G12T-75

CLASSIC LEAD 80

A natural evolution of the G12-80 and a firm favourite with lead guitarists, the Classic Lead uses a fibreglass voice coil former to deliver an 80W power rating and a unique dynamic sound. With a tightly controlled low-end, strong high bass / low mid punch, aggressive mid range attack and a powerful yet controlled top-end, power chords make their presence felt while the subtle high-frequency roll-off makes this speaker ideal for solos.

12"
305mm

1 3/4"
Voice Coil

80
Watts

8/16
Ohm

99
dB

10"
254mm

1 3/4"
Voice Coil

60
Watts

8/16
Ohm

99
dB

12"
305mm

1 3/4"
Voice Coil

75
Watts

8/16
Ohm

97
dB

CREAMBACK



PARTNERS IN TONE
Joe Perry Aerosmith



The ever-popular Greenback is the undisputed reference point for sweet, harmonically rich tone and also for the way in which the output of an amplifier should be articulated as it tips from clean to crunch and through to fully-saturated overdrive. But what if you need Greenback sonics and response with more than 30-Watts power handling? Enter the Creambacks.

G12M-65 CREAMBACK

12"
305mm

1 3/4"
Voice Coil

65
Watts

8/16
Ohm

97
dB

Bringing vintage tone to modern-day amps, the G12M-65 Creamback delivers the familiar, woody tone of the G12M Greenback along with greater power handling. This brings with it low end grunt complementing the warm and vocal mid range, crunchy upper-mids and sweet, refined highs.



NEO CREAMBACK

Every ounce a Classic Celestion, the Neo Creamback delivers all the magical tone you'd get from a conventional Creamback at around half the weight of a traditional speaker, thanks to its Neodymium magnet. Expect the same low end punch, warm, vocal midrange and sweet highs that made the Creamback famous: push it hard and enjoy the 'race-car growl' that sets pulses racing.

12"
305mm **1 3/4"**
Voice Coil **60**
Watts **8/16**
Ohm **97**
dB



G12H-75 CREAMBACK

The G12H-75 Creamback provides 75-watts of power handling and unmistakable G12H tone, with a tighter low end than the G12M-65 Creamback, and a punchier, more dynamic high end. The H magnet brings additional focus, body and girth to the Creamback tone, thickening single notes for a highly articulate, vocal character.

12"
305mm **1 3/4"**
Voice Coil **75**
Watts **8/16**
Ohm **100**
dB



G10 CREAMBACK

Everything guitarists love about Celestion Creambacks, wrapped up in a 10-inch package. Warm, expressive, detailed and well-balanced, this speaker performs beautifully in singles, pairs or 4x10 configurations.

10"
254mm **1 3/4"**
Voice Coil **45**
Watts **8/16**
Ohm **96**
dB

100% LOUDER

ONLY QUIETER

The Peacekeeper is a revolutionary new attenuating speaker for guitarists from Celestion. It's the simplest and most toneful way of being able to dial your amplifier right up to its sweet spot, while keeping the decibel levels down.

As any guitar player knows, a great amp sounds at its best when you turn it up loud. Unfortunately that's not always possible, which is why Celestion designed the Peacekeeper. Featuring a unique dual voice coil design, this attenuating speaker works together with an amp, like a conventional guitar speaker, only with significantly reduced output sensitivity. Enabling you to drive your amplifier harder while still listening at reasonable volume levels.

Load it into your cab and the Peacekeeper will attenuate your amplifier in the most natural way possible, with zero additional colouration or tonal compromise.





G12 PEACE KEEPER

The Peacekeeper disrupts the conventional limitation of great amplifiers that typically only open up and sound their best when played at high decibel levels. It works seamlessly with almost any amplifier, just like a conventional guitar speaker does, but the built-in attenuating technology significantly reduces the output level enabling players to achieve their desired sound at much lower volumes.

Attenuation is achieved 'organically' through the natural operation of the loudspeaker, employing Celestion's unique dual voice coil design. Coil one



drives the cone (just like normal), but it has a low BL, which is what provides the attenuation. The second coil keeps the bass tight and makes sure that the tone is right. Which all means you can drive your amplifier harder for all that juicy amp tone, while still listening at reasonable volume levels. What's more, the Peacekeeper fully preserves the Celestion tone that musicians love: the attenuation process adds no colouration and no compromise.

**Simply 100% Celestion tone.
Only quieter.**



PEACEKEEPER

As any guitar player knows, a great amp sounds at its best when you turn it up loud but unfortunately that's not always possible! Enter the Peacekeeper: voiced like a G12H, this attenuating speaker works together with any amp, in the same way as any guitar speaker, only with significantly reduced output sensitivity.

12"
305mm

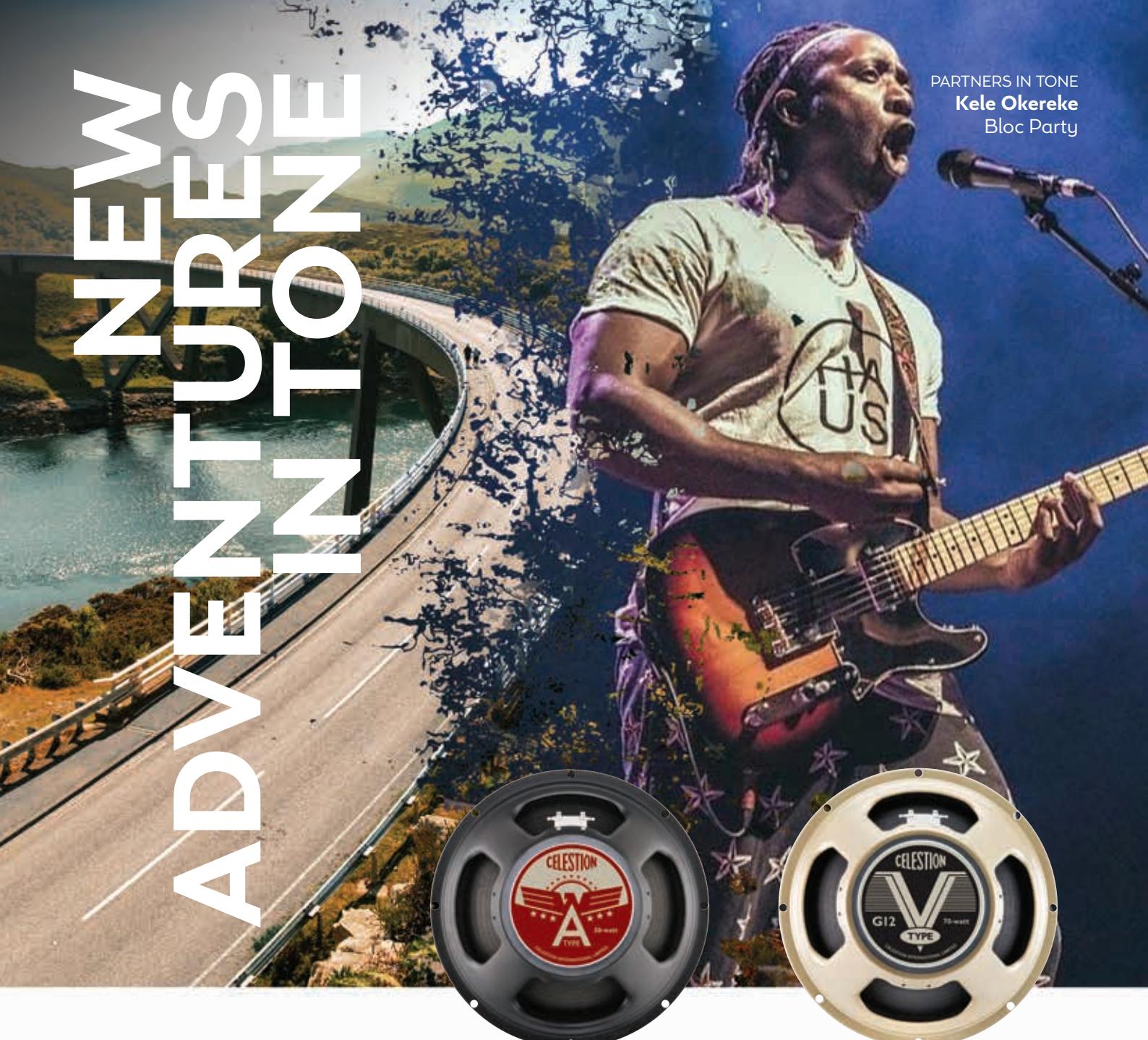
1 3/4"
Voice Coil

50
Watts

8
Ohm

86
dB

ADVENTURE TONES



For ambitious players looking for bold, original tones to break new sonic ground, these innovative speakers look to the future, providing new tonal flavours for guitarists seeking out their signature sound.

A-TYPE

Inspired by our favourite modern American tones, the A-Type is a different kind of guitar speaker from Celestion. Of course, it still has the musical and revealing three-dimensional quality that is the heart and soul of a Celestion guitar speaker, however it features a more laid-back midrange which reveals body and complexity in the upper register, accompanied by full and rounded low frequencies.

12"
305mm

1 3/4"
Voice Coil

50
Watts

8/16
Ohm

98
dB

V-TYPE

The V-Type delivers authentic Celestion tone together with vintage musicality and a thrilling, tactile responsiveness that leaves you feeling connected to the music. Cleans are true across the lows, mids and highs, with just enough upper-mid chime and HF sparkle to add clarity and definition. Or crank it up for a sizzling overdrive and raw rock tones, with plenty of midband warmth to give body and substance to lead note playing.

12"
305mm

1 3/4"
Voice Coil

70
Watts

8/16
Ohm

98
dB



VT JUNIOR

Delivering the same balance and musicality as its big brother the V-Type, the 10-inch VT Jr. has been formulated using the same recipe of old and new design techniques for a satisfying modern vintage character. Expect a juicy low mid punch together with plenty of high-end sparkle and a thrilling responsiveness that will leave you wanting to keep on playing.

10"
254mm

1 3/4"
Voice Coil

50
Watts

8/16
Ohm

95
dB

NEO V-TYPE

This sweet sounding speaker has a superbly balanced sonic signature that imparts a vintage musicality to your tone. Clean sounds have just the right amount of upper-mid chime and HF sparkle to add clarity and definition. Crank it up for a sizzling overdrive and some raw rhythmic grind, but expect a little extra definition and note separation for your searing, single note lead lines thanks to some neodymium magnet magic.

12"
305mm

1 3/4"
Voice Coil

70
Watts

8/16
Ohm

98
dB

G12M-50 HEMPBACK

Delivering a thump in the low end, a finely balanced midrange (with just a little Celestion crunch) and smooth, singing highs, the Hempback is a speaker that's perfect for deploying with brighter sounding amps, where a more laid-back attack is required. Load one up for a smoky sound that's musical and responsive, and let your hemp tone shine through.

12"
305mm

1 3/4"
Voice Coil

50
Watts

8/16
Ohm

99
dB



G15V-100 FULLBACK

Retaining Celestion's classic, harmonically complex and finely detailed mid-range, the larger cone of the Fullback shifts this characteristic down a register. Clean sounds are warm and expressive, revealing and enhancing the qualities of your amp and guitar without unnecessary colouration. Overdrive sounds are complex and musical; push harder for a weighty, contralto growl, with a softer, warmer mid-range.

15"
381mm

2"
Voice Coil

100
Watts

8/16
Ohm

99
dB



DAVE BAKER



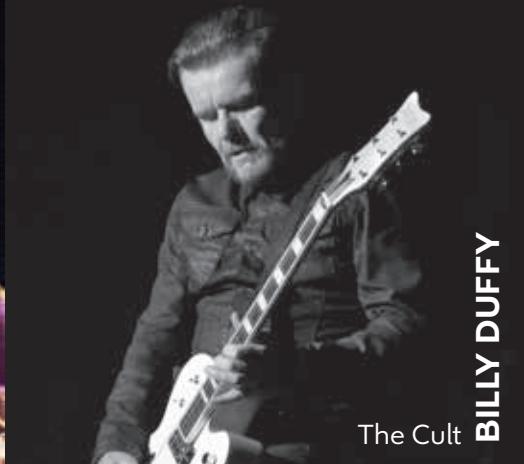
GIDEON BOLEY



STEPHEN CARPENTER



DOYLE



BILLY DUFFY



KIRK FLETCHER

PARTNERS



RON JACKSON



BILL KELLIHER



NICK PERRI



WAYNE SERMON



NALLE COLT

Vintage Trouble



Zac Brown Band



Smashing Pumpkins

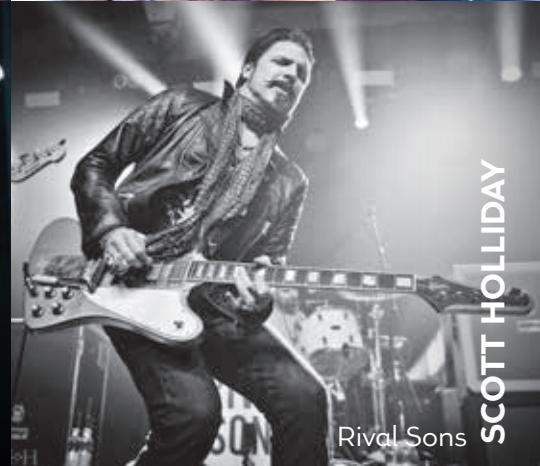


ROBBEN FORD



LZZY HALE

Halestorm

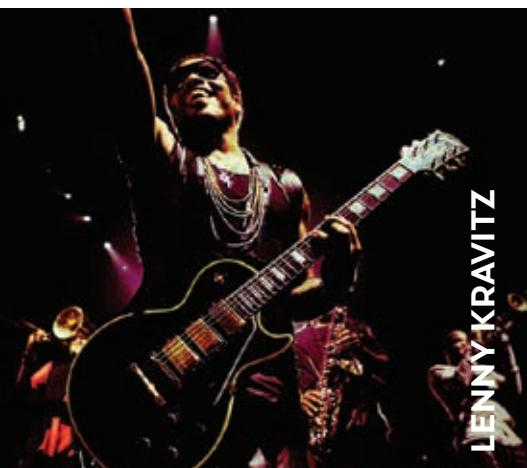


Rival Sons

BILLY ORGAN

SCOTT HOLLIDAY

S IN TONE



LENNY KRAVITZ



RUSSELL LISSACK

Bloc Party



GEORGE LYNCH



KENNY WAYNE SHEPHERD



DAN WELLER

Florida Georgia Line



MARK ZAVON

Kill Devil Hill



JESSICA DOBSON

Lead guitarist and frontwoman of Seattle-based indie rock band, Deep Sea Diver.

“Celestions have always been my go-to speakers. They have the perfect amount of punch and clarity that I’m looking for. I’m in love with my G12 Blues and Greens.”



GEORGE COLLINS

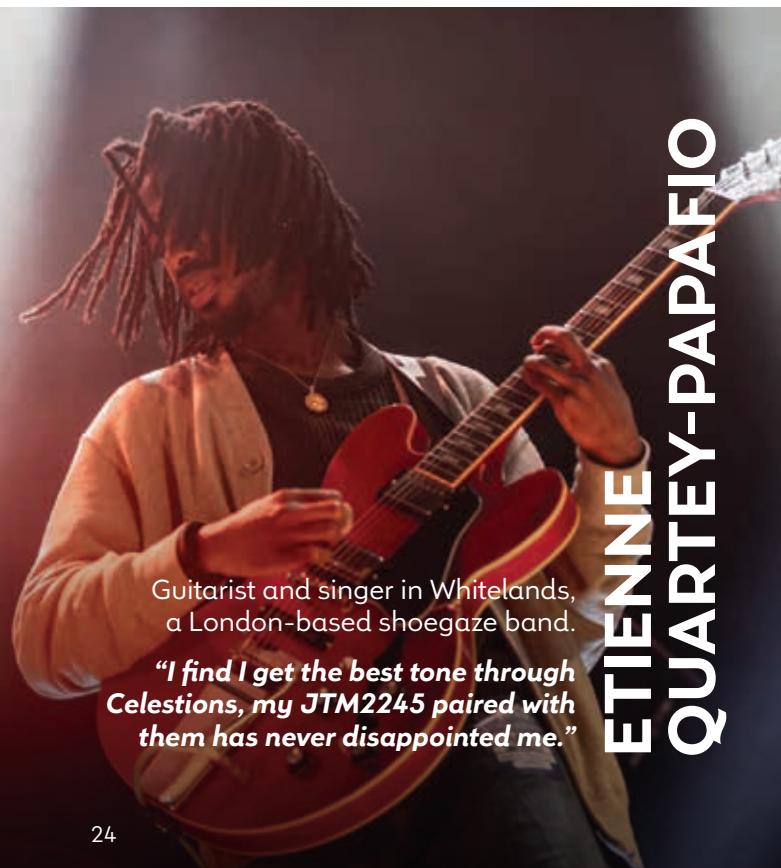
British Berklee College of Music graduate and session guitarist based in Nashville.

“I always make sure my amps are loaded with Celestions, The Greenback in my AC15 and the G10 Vintage in my Princeton are perfect for every situation.”

Meet some of our new PARTNERS IN TONE!

Partners in Tone is the Celestion artist endorsement programme, featuring over 200 guitar and bass players who all share a passion for Celestion tone and believe our speakers are a core part of their sound. From grassroots venues to sold-out stadiums, these artists are using Celestion speakers on stages all over the world, playing everything from country to heavy metal!

Meet some of the latest artists to join our Partners in Tone programme...



ETIENNE QUARTEY-PAPAFIO

Guitarist and singer in Whitelands, a London-based shoegaze band.

“I find I get the best tone through Celestions, my JTM2245 paired with them has never disappointed me.”



JODY BARTULA

Lead guitarist for country music singer, Cody Johnson.

“Silky smooth lows, soaring highs, and everything in between. Celestion speakers can do anything you need them to and so much more.”



G12H-150 REDBACK

12"
305mm

2"
Voice Coil

150
Watts

8/16
Ohm

100
dB



STERLING F250

12"
305mm

2.5"
Voice Coil

250
Watts

4
Ohm

97
dB

Guaranteed to deliver a polished performance, with a high headroom plus exceptional detail and clarity. A 42oz ceramic magnet brings a tight, punchy low end while the curved cone is impregnated with polyimide for additional stiffness, ensuring a smooth, neutral midrange that won't add unwanted colouration. The Sterling's 250-watt power rating means you can drive it hard and with a 97dB sensitivity you can be sure of getting a tone that's loud and clean. Perfect for the tones that pedal steel players crave or as the ultimate platform for heavy-duty effects pedal users.

POWER
TONE
&

Fashions in guitar amplification are constantly evolving. The current desire for increased portability calls for speakers that deliver greater power handling or reduced weight, and sometimes both. But it's reassuring to know that whatever the size of your cab or the output of your amp, you'll never have to choose between power and tone.

Tone Alchemy

Hal Lindes recorded and toured on the Dire Straits albums *Making Movies*, *Love Over Gold*, and *Alchemy*. Not long after, he became a prolific film and TV composer, scoring a plethora of BBC series as well as 2010's critically acclaimed *The Boys Are Back*, for which he collaborated with artists as diverse as Sigur Rós and Ray LaMontagne. Throughout it all, one factor has been as ever-present as the music in his heart and the skill in his hands: the Celestion speakers in his amps.

"I was in London during the whole punk boom in the mid-'70s. At the time, I bought an amp a roadie in my band had enthusiastically said I just had to hear," says Lindes, recalling his first experience with Celestion. "It was a Vox AC-30, an early-'60s coppertop model. The speakers in it were Celestion G12s. I was like, God, I love these drivers, too! What are they?"

"I had a Marshall, a 1959 Super Lead 100, with G12H speakers. I also discovered you could put a Fender Twin Reverb through a 4x12 cabinet and it sounded incredible. That's what we were doing in Dire Straits. We used Fender Musicmasters, which were the functional equivalent of the Twin at the time.

Then there was my '51 'TV front' Tweed Deluxe, with a Celestion Blue swapped in, and that driver puts that amp in a whole other arena. Then a Brownface Vibe Deluxe with a G12H and Blackface Deluxe Reverb with a G12H."

In the '80s, Paul Rivera designed amps for Fender, including a Super Champ which was the size of a Champ but more sophisticated. "That's my main recording amp these days, and I have a G10 Greenback in it. It sounds phenomenal."

When asked if there is a particular quality or tone about Celestion speakers that is important to him, Lindes says: "It allows the personality of the amp to speak for itself. Also, I play with my fingers mostly. So, I might run the amp higher and play softer so the amp is working harder. What Celestion does for me here is, it allows the natural sound to come through. It's like I can almost hear the flesh of my fingers in the tone."

METAL HEAVYWEIGHTS

TRIVIUM

QUEST FOR TONE

For twenty-five years, American heavy metal band Trivium has consistently pushed the boundaries of their sound, crafting a sonic tapestry that seamlessly blends intricate arrangements with crushing heaviness.

Throughout their career, a constant in their sonic arsenal has been Celestion speakers, most notably Vintage 30s, 'BVs' (Celestion built Marshall Vintages loaded into the 1960BV cabinet), Creambacks, Greenbacks, and various other models.

Since the very beginning, the band used Marshall 1960B 4x12 cabinets loaded with Celestion for their first live shows. Soon after, they were introduced to Celestion BVs, in a Marshall 1960BV for their *Ember to Inferno* album, which were

subsequently loaded into a Mesa/Boogie oversized Rectifier for their breakthrough album *Ascendancy*. Their Mesa/Boogie cabinets were paired with a Peavey 5150 amp head, which they labelled as the go-to combo for metal at the time. To this day, the Trivium tone generally consists of a Peavey 5150 series head and a cab loaded with Celestion BVs or Vintage 30s, and if you catch them live, you'll also hear EVH Stealth heads and cabs loaded with signature G12 EVH speakers.





“

THERE'S SOME MAGIC TO PLUGGING INTO A TUBE AMP AND SPEAKER CABINET WHEN THAT FEELING, THAT ELECTRIFYING PUSH OF AIR HAPPENS.

- Corey Beaulieu

In their new custom studio, THE HANGAR, the band have been experimenting with different amp heads, cabs and speaker combinations using their huge library of Celestion speakers, including Vintage 30s, G12M-65 and G12H-75 Creambacks, G12M Greenbacks, G12H Anniversaries, plus all the older models they've accumulated over the years. They use a variety of different makes of cabinets—finding that you get different sounds from cab to cab, even if they have the same Celestion speaker, so it's all about finding which combination works the best for

what they're doing in any particular session. They have Vintage 30s in an EVH cab, BVs in a Mesa Cab, and Vintage 30s in a Marshall cab. Any cab they've ever received that didn't already have Celestions, had some put in soon after. Once they've given all their speakers and cabinets the run-through, they'll know which combo will bring that extra magic to the tone that's needed.

Through years of experimentation, research and playing, the band have discovered what's right for them, noting that every musician has to find what's right for them on their own because there's no right or wrong answer when it comes to music. *“If you love it, that's what matters and that's the amazing thing about music.”* – Matt Heafy.

“

ANY LITTLE VARIABLE IN TONE CAN BE INSPIRING. EVERY LITTLE THING CAN DRASTICALLY CHANGE HOW YOU'RE PERFORMING, FEELING, AND PLAYING WHEN YOU'RE MAKING MUSIC AND THAT'S ALL ANYONE IS LOOKING FOR. THAT'S WHAT THIS QUEST OF TONE IS. THIS OBSESSION WITH GEAR HAS ALWAYS BEEN TO FIND SOMETHING NEW TO INSPIRE YOU TO COME UP WITH NEW IDEAS, AND YOU NEVER KNOW WHERE IT CAN LEAD YOU.

- Matt Heafy

“

OZ NOY

Jazz Influence



DiMeola. Holdsworth. McLaughlin. Metheny. Scofield. If you were to describe what these great guitarists have in common, it would be that they fused deep jazz scholarship with rock and soul rhythms. If you were to name the heir apparent to this legacy, it could only be Oz Noy.

Arriving in New York City in 1996, he quickly rose to the highest echelon of U.S. musos. His tenth studio album *Snapdragon* featured such luminaries as Dennis Chambers, Dave Weckl, and Zappa alum Vinnie Colaiuta on drums; Will Lee and John Pattituci on bass; and the late Wallace Rooney on trumpet. Through it all, Celestion guitar loudspeakers have been a vital component of Noy's equipment.

He realised he wanted to play professionally as a lifetime thing in the mid-1980s. “I was maybe 15 when I saw Pat Metheny on the *Still Life Talking* tour. After that I basically stopped going to school!”

“When I started to get into jazz, it was mostly John McLaughlin, Al DiMeola, and maybe George Benson. Then I discovered Scott Henderson and Allan Holdsworth. After that, I started to study jazz more deeply and got into Wes Montgomery, Kenny Burrell, and Grant Green — the bebop guys. At the same time, I started appreciating more blues, so Stevie Ray Vaughan was huge in my book. These days, I feel like I'm influenced by everybody!

“When I was growing up, Celestion speakers were always around. I had a Marshall with a 4x12 that had G12T-75s in it. I used that cabinet a lot. When I moved to New York and I was able to afford better equipment, I had a couple of Fenders with Celestion Vintage 30s in the cabinets. That speaker sounds great inside pretty much everything!

“After that I had a little Suhr amp, and it always had Celestion — mostly Vintage 30s but I had one cabinet with Greenbacks. You can't get away from those speakers and that sound. For me, they work in any context.”

FULL RANGE LIVE RESPONSE

Dedicated guitar speakers for amp modelers and IRs

The world's first dedicated guitar speakers designed for use with amp modellers and IRs. Celestion's Full Range Live Response speakers are built using our world-leading Pro Audio know-how to deliver a wide bandwidth output for the most accurate sound possible, with a flat and neutral response ensuring there are no unwanted colourations dominating the signal.

Meanwhile, the lighter moving mass and straighter sided cone of the type commonly used with guitar speakers gives these speakers the feel and live response of a traditional guitar speaker, delivering all the physical feedback you'd expect from playing through a conventional guitar rig.



F12M-150 TRIPLE CONE

A more compact and lightweight Full range live response option. The F12M-150 Triple Cone features two additional precision-designed tweeter cones integrated with the main woofer (making it 'Triple Cone'). The tweeter cones extend the overall high frequency response enabling the speaker to deliver near full-range performance (from 60Hz to 12kHz) for a rich and detailed sound.

12"
305mm

2"
Voice Coil

150
Watts

8
Ohm

97
dB



F12-X200

The original full range live response speaker. High frequencies are reproduced by a Celestion neodymium magnet pro audio compression driver. This has been fully integrated with the guitar speaker cone using an on-board crossover enabling the F12-X200 to seamlessly deliver a frequency response from 60Hz all the way up to 20kHz right out of the box.

12"
305mm

2"
Voice Coil

200
Watts

8
Ohm

97
dB



CELESTION

D | G | I | T | A | L

Legendary tone for your amp modeler or DAW

SpeakerMix Pro, the ultimate guitar speaker tone plug-in, featuring DSRs. Professionally recorded, authentic Celestion Impulse Responses, in industry standard format.

Captured by award-winning industry professionals in world-class facilities using state-of-the-art recording equipment, Celestion IRs empower you to escape the limitations of a single mic and cabinet setup and explore a universe of possibilities to create your own perfect tone.

And once you've found it, you'll be able to recreate it precisely, anytime, anywhere – at home or on the road.

Discover a fantastic range of downloadable guitar speaker tones, featuring classic Celestion speakers, past and present.

For more information visit celestionplus.com

DSR
DYNAMIC SPEAKER RESPONSE

IR
IMPULSE RESPONSE

SpeakerMix
Pro

Bennett Dean Lewis

Celestion's Impulse Response Collection

The demands of constant gigging and recording have made a streamlined amp rig and trouble-free monitor mixes extremely important for Nashville-based musician Bennett Dean Lewis. He recently discovered how, when it came to digital tone, Celestion Impulse Responses deliver on both counts.

"The two I keep going back to are the Alnico Blue and the Vintage 30. I have those set up in 1 x 12 and 2 x 12 configurations, as the IRs simulate the cabinet design as well as the speaker cone itself – open-back, closed-back, all the options. The Blue has this high-end presence that, for some reason, really helps with my in-ear monitor mix. It just sounds frickin' killer. The cool thing, too, is that you can run a 50-watt head like the Morgan into the speaker simulation at full power, which in the real world might blow



a physical speaker. My amp head has a through output for an actual guitar speaker cabinet, which you might use to record a miked signal along with a direct signal in the studio. Onstage, we're not doing that, the Celestion IRs sound so good that we don't have to!"

ORIGINALS

Many guitar speakers were first built at the Foxhall Rd, Ipswich factory 1969 to 2003



As the original name in guitar speakers, we're dedicated to delivering great tone regardless of genre, playing style or budget. Nobody knows more than us about designing and manufacturing guitar speakers and the Celestion Originals are proof of that. This range is built to exacting standards for consistently high quality and reliability, delivering Celestion tone and performance in some of the world's best-selling amps and cabs.

NEW FOXHALL

Flagship of the next generation of Celestion Originals, this all-new speaker is versatile, performs superbly and has been designed from the ground up to deliver the great British tone you love. It's a well-balanced 12-inch guitar speaker that brings a full, clear sound. Expect the familiar Celestion midrange along with a treble that's capable of cutting through the mix, but is never too dominant. Clean sounds are open and articulate, and overdrive tones will swagger, just like you want them to.

12"
305mm

1½"
38mm
Voice Coil

70
Watts

8/16
Ohm

97
dB



MIDNIGHT 60

12"
305mm **1 3/4"**
Voice Coil **60**
Watts **8/16**
Ohm **96**
dB

Continuing Celestion's tradition of delivering rich, classic British tone in innovative new ways, The Midnight 60 combines the moving parts of a V-Type with an alternative magnet assembly, resulting in a sonic character reminiscent of Celestion's vintage G12L speaker. Whatever the genre, the Midnight 60 provides an exhilarating sound in the classic Celestion style. Cleans are balanced with enough treble to make the high-end sparkle. Overdrive to bring searing rock tones with low-end warmth and mid-band rage.

SEVENTY 80

12"
305mm **1 3/4"**
Voice Coil **80**
Watts **8/16**
Ohm **98**
dB

Conceived in the late '90s as the G12P-80, the Celestion Seventy 80 has become one of the most widespread guitar speakers we've ever produced, finding its way into an extensive range of amps and cabs. Delivering a detailed and crisply defined tone, the Seventy 80 has a tightly controlled low-end with a punchy, aggressive upper mid-range. The top-end response is glassy and clear for enhanced treble and a full-range feel without compromising its undeniable Celestion character.

TEN 30

10"
305mm **1 3/4"**
Voice Coil **30**
Watts **8/16**
Ohm **95**
dB

Rich and expressive, the Ten 30 combines warm lows with a vocal mid-range and an articulate top end. The clean sound is open and revealing; push hard and you're rewarded with full-blooded Celestion grind.

NEW THAMES

10"
305mm **1"**
Voice Coil **30**
Watts **4/8**
Ohm **94**
dB

Characterised by satisfying lows, the Thames offers a sweet, clear upper midrange and well-defined treble. Effortlessly bringing a detailed and warm clean sound, the Thames is also capable of delivering heft, punch and true British grind when pushed to the limit, injecting more life and excitement into any amplifier.

EIGHT 15

8"
203mm **1"**
Voice Coil **20**
Watts **4/8/16**
Ohm **95**
dB

The Eight 15 is ideal for upgrading your bedroom blaster with authentic British tone. Well-balanced mids and highs complement a surprisingly meaty bottom end - it's just about the biggest sounding eight inch speaker we've ever heard! And there's also a 4Ω version, making it ready, willing and able to blast new life into junior combos like the Fender® Champ.

PULSE XL

BASS SPEAKERS



Built for those looking for a looser fit, PULSE XL is a range of bass guitar speakers designed with a deep reaching frequency response and a full and round low-end. Sophisticated enough to articulate smoother sounds. Versatile enough for the times when you need to stand up, dial it up and roar.



PULSE XL 10.20

10"
254mm

Ferrite

400
Watts

8
Ohm

92
dB

Great by itself and even better in a 4x10, the PULSE XL 10.20 provides more bass than you'd ever imagine from a 10-inch speaker, along with the speed of response that makes small diameter drivers so popular with bass players that want to cut through the mix. A fabric dust dome contributes to a particularly articulate treble response.



PULSE XL 12.20

12"
305mm

Ferrite

500
Watts

8
Ohm

94
dB

An increasingly popular choice of speaker format for bass players, this 12-inch driver delivers a rock-solid performance with plenty of warmth and richness in the low end, a detailed and expressive mid-band and a super-smooth treble, courtesy of a felt dust dome. Expect plenty of punch from singles or pairs, or a wall of classic bass tone in 4x12 configurations.



PULSE XL 15.25

15"
381mm

Ferrite

700
Watts

8
Ohm

97
dB

Plenty of clean, deep bass from this heavy-duty 15-inch driver, along with a defined midrange and the smooth treble response that comes with a felt dust dome. With a solid 700W of power handling, the PULSE XL 15.25 delivers an authoritative performance packed with sweet harmonic overtones.



PULSE XL 1.10 SUPERTWEETER

1"
Exit

Conical
Horn Type

35
Watts

8
Ohm

103
dB

For players who want to extend their frequency range for additional high-end attack, the PULSE XL 1.10 Supertweeter delivers all the sweet treble you could possibly ask for.

PULSE BASS SPEAKERS

For those that bring rumble and thunder, Celestion has created PULSE – a range of three powerful, dependable, ferrite magnet bass speakers built to deliver your sound with all the punch and clarity you need to hold down the bottom end in any musical situation.



PULSE 10

10"
254mm
Ferrite
200
Watts
8
Ohm
94
dB

With its robust steel-chassis, PULSE 10, provides a rock-solid bass performance whether alone in a single speaker combo, in a 4x10 or even an 8x10 cab. Expect a tight, punchy low end with a warm mid-range that's full of presence, bringing focus and articulation to your playing. This heavy-duty driver truly delivers bass you can feel as well as hear.



PULSE 12

12"
305mm
Ferrite
200
Watts
8
Ohm
94
dB

For bass players demanding well-defined clarity and stunning articulation together with a rich, full tone, PULSE 12 bass speakers deliver an ideal combination of responsiveness and rock solid low end. The Kevlar-loaded cone pulses with up to 200 watts of raw bass power. Expect each note to deliver a thick, percussive attack along with the mid-range necessary to break through in any performance situation.



PULSE 15

15"
381mm
Ferrite
400
Watts
8
Ohm
96
dB

With a longer voice coil for increased 'throw' and a multi-roll surround that provides exceptional linearity and superb bass extension, the 400-watt PULSE 15 is impeccably-designed sonic artillery. Featuring a Kevlar loaded cone and rigid steel chassis designed for maximum energy transfer, this robust and reliable speaker truly is a powerhouse of deep bass tone.



**I'm literally blown away by
these speakers. Thunder!**

Rex Brown



PARTNERS IN TONE
Rex Brown Pantera



DANIEL KIMBRO



Mastodon

TROY SANDERS

BASS PARTNERS IN TONE



Miranda Lambert

ADEN BUBECK



Replacements

TOMMY STINSON



Styx

RICKY PHILLIPS



Pristine Reign

WILLIE OTIS LEMONS III

BASS SPEAKERS



BN10-200X



Expression and musicality come as standard with the 200-watt BN10-200X. Light in weight but not certainly not in performance, this neodymium magnet bass speaker delivers a rich warm tone combined with a powerful low end punch.



BN10-300X



Delivering superb low end projection and a detailed mid-range that only an advanced Celestion neodymium motor could be capable of. Available exclusively in 4Ω, the BN10-300X is an excellent and very lightweight tone machine.



BN12-300S



This highly efficient, lightweight neodymium speaker is a strong performer whatever your rhythmic style. The BN12-300S delivers clear, well-balanced bass so you will be confident in your performance whether holding the line or punching through the mix.



BL15-300X



This 15" steel bass speaker has industry leading engineering built in, together with signature Celestion tone that you can feel with every single note.



BN15-300X



BN15-300X has a lightweight magnet for increased portability and is purpose-built to provide 300-watt power handling and a rich, warm bass tone.



BN15-400X



With 400-watt of thunderous power handling capability, the lightweight neodymium magnet BN15-400X skilfully brings your low end to the forefront.

Expect a potent combination of technology and tone from Celestion bass speakers, built to deliver the exceptional performance demanded by modern amplifiers, while meeting the sonic demands of a wide range of players and playing styles. With a choice of 10", 12" and 15" chassis sizes, impedances and magnet types, the Celestion Bass Speaker range provides amp builders and players looking to upgrade their rigs with a comprehensive range of options.

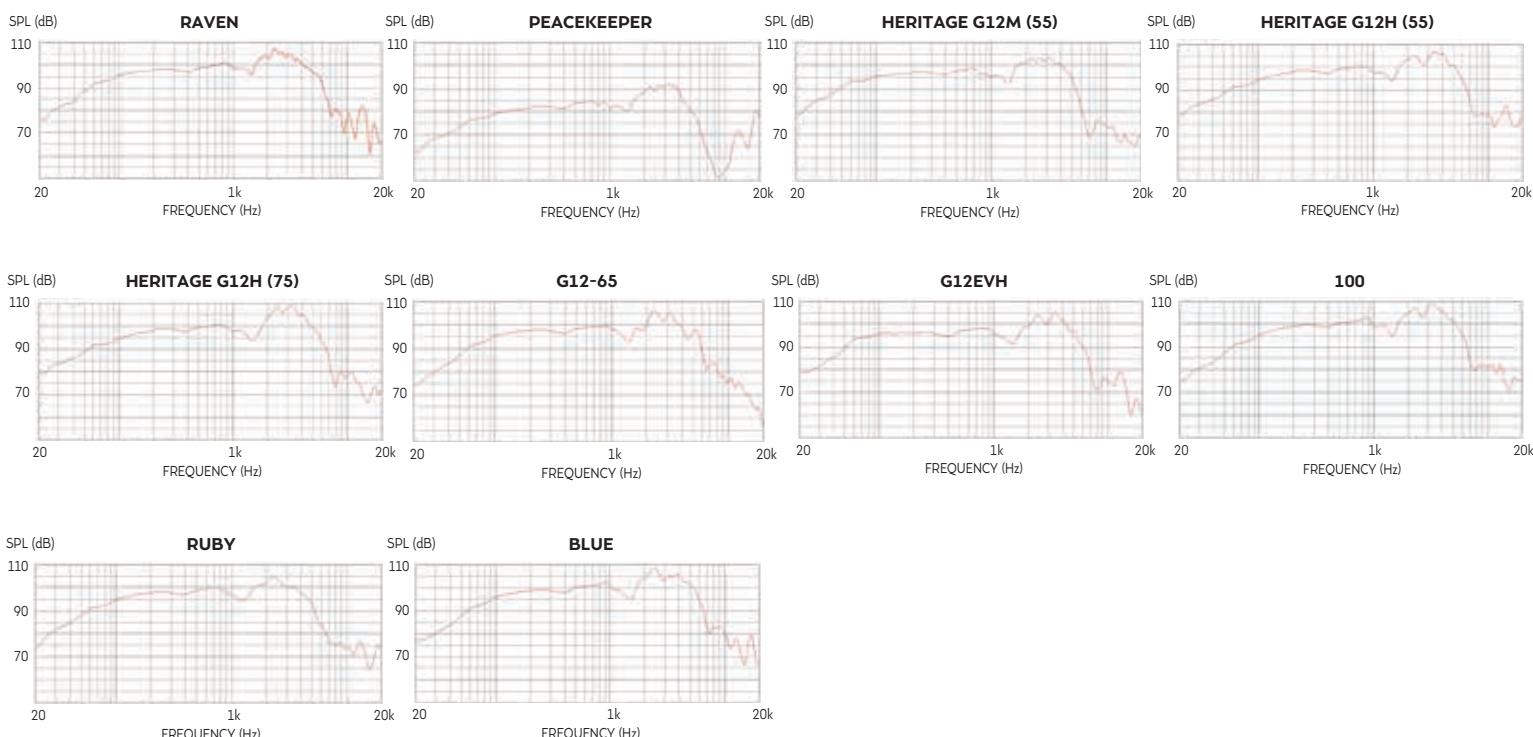
GUITAR SPEAKER SPECIFICATIONS

12"

	RAVEN	PEACEKEEPER	HERITAGE G12M (55)	HERITAGE G12H (55)	HERITAGE G12H (75)	G12-65	G12EVH SIGNATURE	CELESTION 100	RUBY	BLUE
GENERAL SPECIFICATIONS										
Nominal Diameter	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm
Power Rating	100W	50W	25W	30W	30W	65W	20W	30W	35W	15W
Nominal Impedance	8Ω & 16Ω	8Ω	8Ω & 15Ω	8Ω & 15Ω	8Ω & 15Ω	8Ω & 15Ω	8Ω & 15Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 15Ω
Sensitivity	100dB	86dB	96dB	100dB	100dB	97dB	96dB	100dB	100dB	100dB
Voice Coil Diameter	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm
Magnet Type	Lightweight ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Alnico	Alnico	Alnico
Magnet Weight	30oz, 0.85kg	50oz, 1.42kg	35oz, 0.99kg	50oz, 1.42kg	50oz, 1.42kg	35oz, 0.99kg	35oz, 0.99kg	n/a	n/a	n/a
Frequency Range	70Hz-5000Hz	75Hz-5000Hz	55Hz-5000Hz	55Hz-5000Hz	75Hz-5000Hz	80-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz
Resonance Frequency, F_s	72Hz	80Hz	55Hz	75Hz	75Hz	85Hz	75Hz	75Hz	75Hz	75Hz
DC Resistance, R_e	6.5Ω & 13.27Ω;	7.6Ω		6.53Ω & 12.6Ω	6.42Ω & 12.01Ω	6.9Ω & 11.8Ω	6.57Ω & 12.13Ω	6.5Ω & 11.9Ω	6.7Ω & 13.1Ω	6.4Ω & 11.8Ω
MOUNTING INFORMATION										
Cut-out Diameter	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm
Diameter	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm
Magnet Structure Diameter	5.4", 134mm	6.14", 156mm	5.9", 150mm	6.6", 188mm	6.6", 188mm	5.7", 145mm	6.08", 154.5mm	4.1", 104mm	5.16", 131mm	5.16", 131mm
Mounting Hole Dimensions	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø
Mounting Hole PCD	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm
Number of Mounting Holes	8	8	4	4	4	4	4	8	8	4
Chassis Depth*	3.63", 92mm	3.63", 92mm	3.63", 92mm	3.63", 92mm	3.63", 92mm	3.67", 94mm	3.62", 91mm	3.63", 92mm	3.63", 92mm	3.63", 92mm
Magnet Depth	1.15", 29.3mm	1.95", 49.5mm	1.52", 39mm	1.73", 44mm	1.73", 44mm	1.34", 35mm	1.54", 39mm	2.5", 63.5mm	2.87", 73mm	2.87", 73mm
Overall Depth	4.85", 123.3mm	5.67", 144mm	5.1", 130mm	5.4", 138mm	5.4", 138mm	5.08", 129mm	5.12", 130mm	6.12", 155.5mm	6.5", 165mm	6.5", 165mm
Unit Weight	5.5lb, 2.5kg	10.8lb, 4.9kg	7.9lb, 3.6kg	10.4lb, 4.7kg	10.4lb, 4.7kg	7.7lb, 3.5kg	7.9lb, 3.6kg	8.8lb, 4kg	9.3lb, 4.2kg	9.3lb, 4.2kg

* Including gasket

GUITAR SPEAKER FREQUENCY RESPONSE



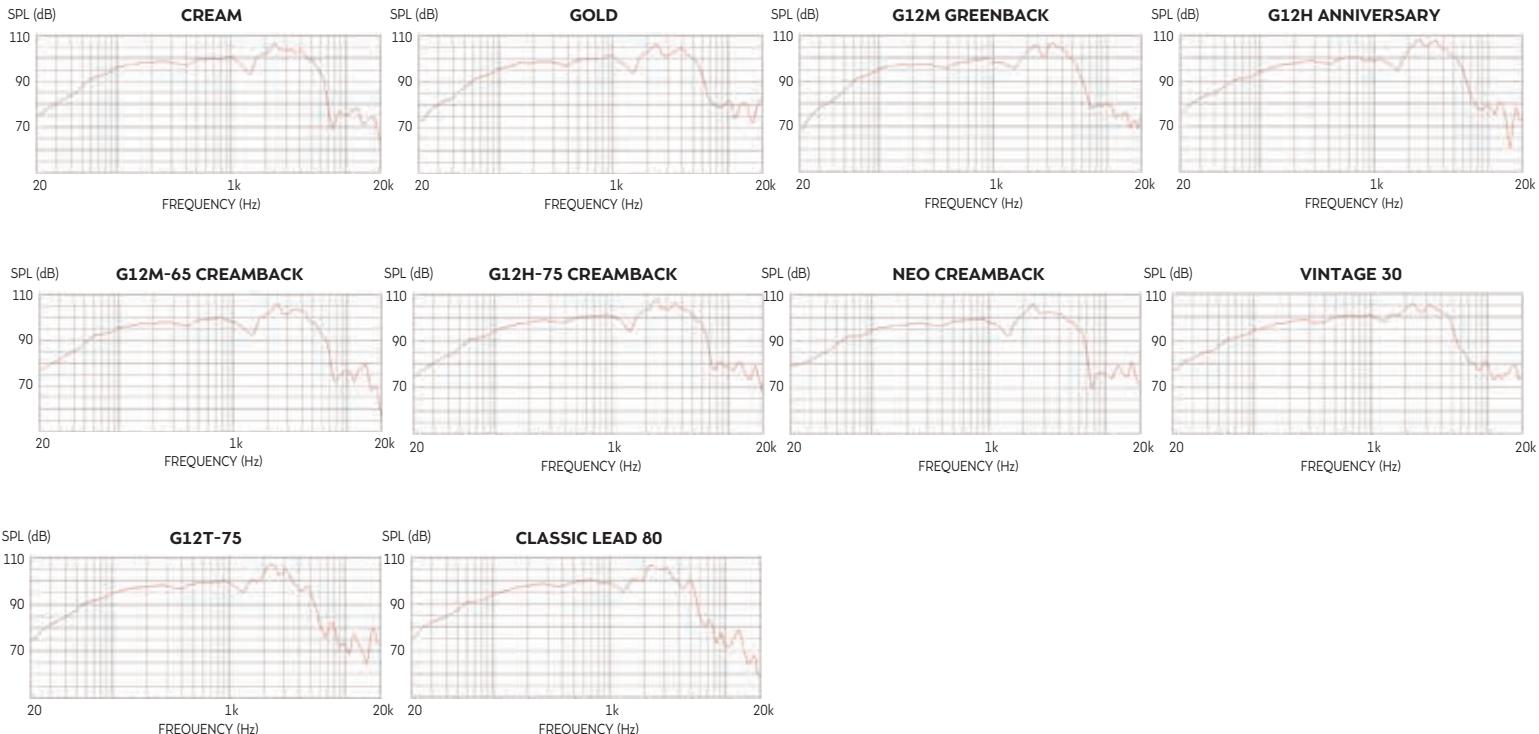
GUITAR SPEAKER SPECIFICATIONS

CELESTION

12"

	CREAM	GOLD	G12M GREENBACK	G12H ANNIVERSARY	G12M-65 CREAMBACK	G12H-75 CREAMBACK	NEO CREAMBACK	VINTAGE 30	G12T-75	CLASSIC LEAD 80
GENERAL SPECIFICATIONS										
Nominal Diameter	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm
Power Rating	90W	50W	25W	30W	65W	75W	60W	60W	75W	80W
Nominal Impedance	8Ω & 16Ω	8Ω & 15Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω
Sensitivity	100dB	100dB	98dB	100dB	97dB	100dB	97dB	100dB	97dB	99dB
Voice Coil Diameter	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm
Magnet Type	Alnico	Alnico	Ceramic	Ceramic	Ceramic	Ceramic	Neodymium	Ceramic	Ceramic	Ceramic
Magnet Weight	n/a	n/a	35oz, 0.99kg	50oz, 1.42kg	35oz, 0.99kg	50oz, 1.42kg	n/a	50oz, 1.42kg	35oz, 0.99kg	50oz, 1.42kg
Frequency Range	75-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz	70-5000Hz	75-5000Hz	70-5000Hz	80-5000Hz	80-5000Hz
Resonance Frequency, F_s	75Hz	75Hz	75Hz	85Hz	75Hz	75Hz	75Hz	75Hz	85Hz	85Hz
DC Resistance, R_e	6.5Ω & 13.1Ω	6.1Ω & 11.5Ω	6.7Ω & 13.1Ω	6.7Ω & 13.1Ω	6.1Ω & 13.25Ω	6.37Ω & 12.5Ω	6.6Ω & 13.1Ω	7.3Ω & 12.9Ω	6.77Ω & 12.9Ω	6.9Ω & 11.8Ω
MOUNTING INFORMATION										
Cut-out Diameter	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm
Diameter	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm
Magnet Structure Diameter	5.16", 131mm	5.16", 131mm	6.08", 154.5mm	6.1", 156mm	6.08", 154.5mm	6.63", 168.5mm	4.9", 124mm	6.1", 156mm	5.7", 145mm	6.1", 156mm
Mounting Hole Dimensions	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø
Mounting Hole PCD	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm
Number of Mounting Holes	8	4	4	4	8	8	8	4	4	4
Chassis Depth*	3.63", 92mm	3.63", 92mm	3.58", 91mm	3.63", 92mm	3.56", 91mm	3.35", 85mm	3.58", 91mm	3.7", 94mm	3.70", 94mm	3.7", 94mm
Magnet Depth	2.87", 73mm	2.87", 73mm	1.52", 39mm	1.54", 39mm	1.54", 39mm	2.01", 51mm	1.16", 30mm	1.52", 385mm	1.30", 33mm	1.54", 39mm
Overall Depth	6.5", 165mm	6.5", 165mm	5.1", 130mm	5.16", 131mm	5.1", 130mm	5.35", 136mm	4.76", 121mm	5.21", 132.5mm	5.0", 127mm	5.24", 133mm
Unit Weight	9.3lb, 4.2kg	9.3lb, 4.2kg	7.9lb, 3.6kg	10.4lb, 4.7kg	7.9lb, 3.6kg	10.4lb, 4.7kg	4.2lb, 1.9kg	10.4lb, 4.7kg	7.7lb, 3.5kg	10.4lb, 4.7kg

GUITAR SPEAKER FREQUENCY RESPONSE



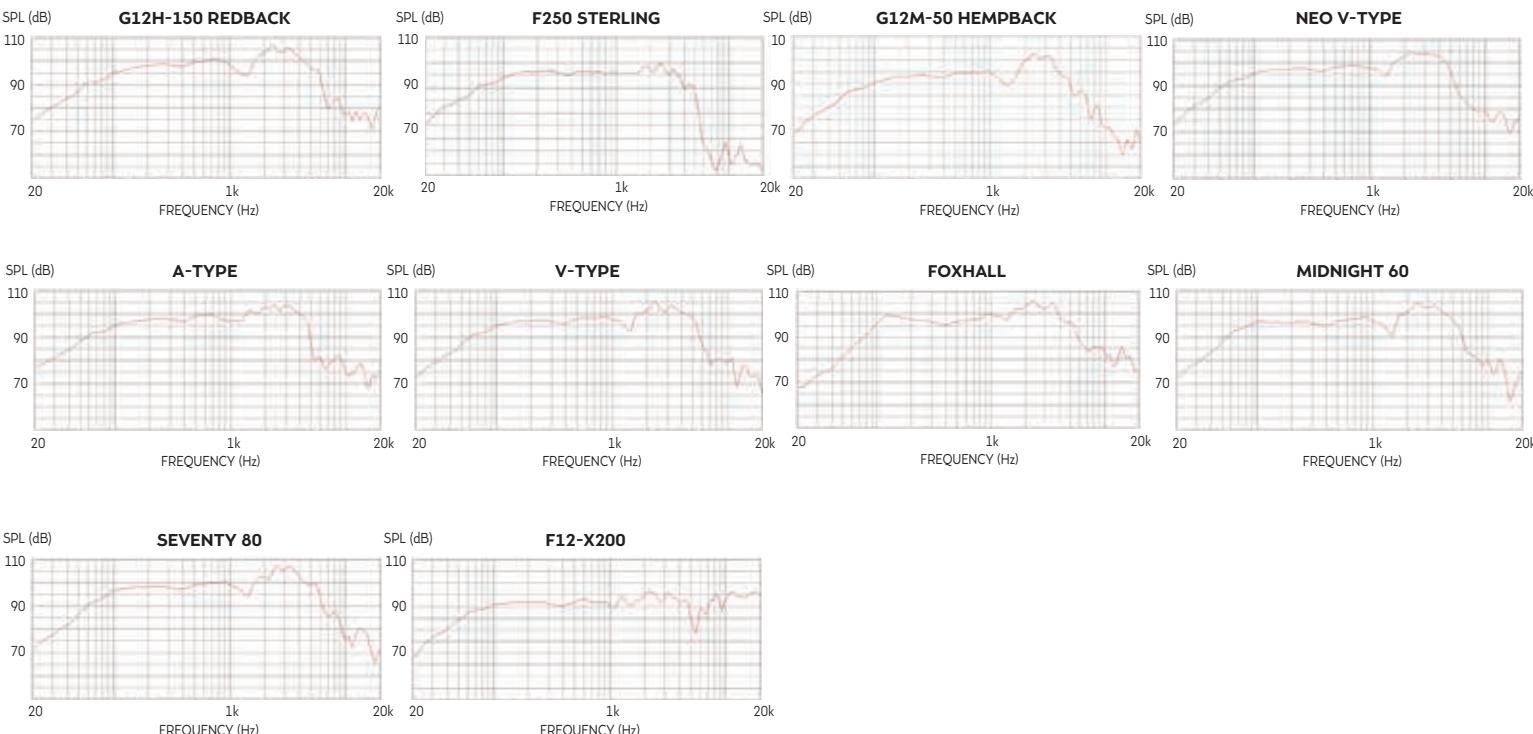
GUITAR SPEAKER SPECIFICATIONS

12"

	G12H-150 REDBACK	F250 STERLING	G12M-50 HEMPBACK	NEO V-TYPE	A-TYPE	V-TYPE	FOXHALL (OEM ONLY)	MIDNIGHT 60	SEVENTY 80	F12-X200
GENERAL SPECIFICATIONS										
Nominal Diameter	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm
Power Rating	150W	250W	50W	70W	50W	70W	70W	60W	80W	200W
Nominal Impedance	8Ω & 16Ω	4Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω
Sensitivity	100dB	97dB	99dB	98dB	98dB	98dB	97dB	96dB	98dB	97dB
Voice Coil Diameter	2", 50mm	2.5", 64mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.5", 38mm	1.75", 44.5mm	1.75", 44.5mm	2", 50.8mm
Magnet Type	Ceramic	Ceramic	Ceramic	Neodymium	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Magnet Weight	50oz, 1.42kg	42oz, 1.2kg	35oz, 0.99kg	n/a	35oz, 0.99kg	31oz, 0.88kg	20oz, 0.6kg	20oz, 0.6kg	31oz, 0.88kg	
Frequency Range	70-5000Hz	60Hz-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz	70-5000Hz	80Hz-5000Hz	75-5000Hz	80-5000Hz	60-20000Hz
Resonance Frequency, F_s	75Hz	55Hz	75Hz	75Hz	75Hz	75Hz	80Hz	75Hz	85Hz	75Hz
DC Resistance, R_d	6.45Ω & 12.54Ω	2.9 Ω	6.17Ω & 12.95Ω	6.64Ω & 12.85Ω	6.15Ω & 11.95Ω	7.3Ω & 12.9Ω	6.69Ω & 12.44Ω	6.66Ω & 13.12Ω	6.1Ω & 10.41Ω	5.91Ω
MOUNTING INFORMATION										
Cut-out Diameter	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm
Diameter	12.2", 308.8mm	12.2", 309mm	12.2", 309.2mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 308.8mm	12.2", 309mm	12.2", 308.4mm	12.2", 308.8mm	12.2", 308.8mm
Magnet Structure Diameter	6.63", 168.5mm	5.8", 148mm	6.08", 154.5mm	5.1", 129.5mm	5.7", 145mm	5.3", 134mm	4.5", 115mm	4.5", 115mm	5.3", 134mm	6.7", 170mm
Mounting Hole Dimensions	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø
Mounting Hole PCD	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm
Number of Mounting Holes	8	8	8	8	8	8	8	8	8	4
Chassis Depth*	3.35", 85mm	3.63", 92mm	3.66", 93mm	3.7", 94mm	3.70", 94mm	3.70", 94mm	3.7", 94mm	3.68", 94mm	3.7", 94mm	3.46", 88mm
Magnet Depth	2.01", 51mm	1.5", 38mm	1.52", 39mm	1.2", 28.5mm	1.30", 33mm	1.18", 30mm	1.02", 26mm	1.02", 26mm	1.22", 31mm	2.93", 74.5mm
Overall Depth	5.35", 136mm	5.1", 130mm	5.19", 132mm	4.82", 122.5mm	5.0", 127mm	4.88", 124mm	4.7", 120mm	4.7", 120mm	4.92", 125mm	6.4", 162.5mm
Unit Weight	10.4lb, 4.7kg	9lb, 4.1kg	7.9lb, 3.6kg	4.2lb, 1.9kg	7.7lb, 3.5kg	7.2lb, 3.3kg	5.5lb, 2.5kg	5.5lb, 2.5kg	6.8lb, 3.1kg	9.1lb, 4.1kg

* Including gasket

GUITAR SPEAKER FREQUENCY RESPONSE

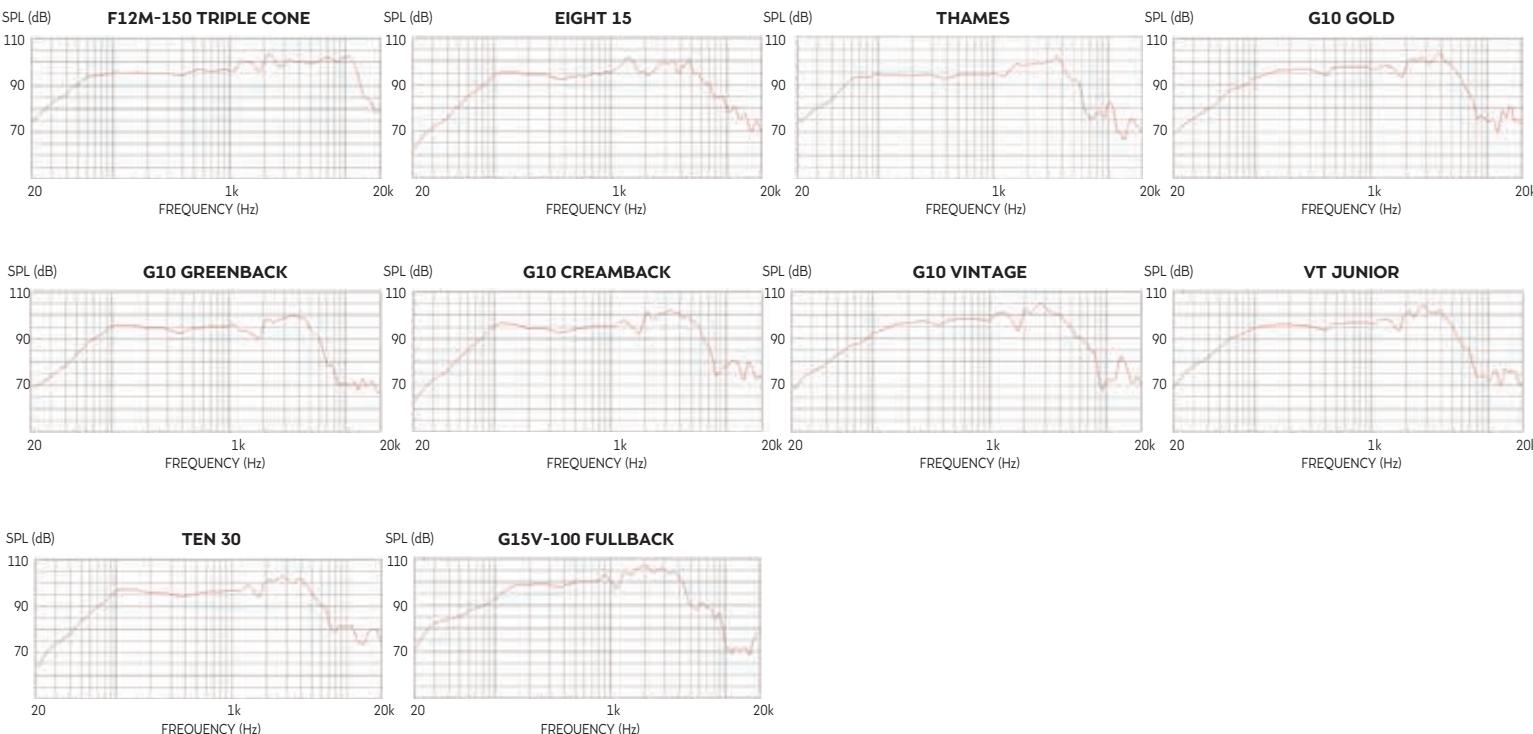


GUITAR SPEAKER SPECIFICATIONS

CELESTION

	12"	8"	10"							15"
	F12M-150 TRIPLE CONE	EIGHT 15	THAMES (OEM ONLY)	G10 GOLD	G10 GREENBACK	G10 CREAMBACK	G10 VINTAGE	VT JUNIOR	TEN 30	G15V-100 FULLBACK
GENERAL SPECIFICATIONS										
Nominal Diameter	12", 305mm	8", 203mm	10", 254mm	10", 254mm	10", 254mm	10", 254mm	10", 254mm	10", 254mm	10", 254mm	15", 381mm
Power Rating	150W	20W	30W	40W	30W	45W	60W	50W	30W	100W
Nominal Impedance	8Ω	4Ω, 8Ω & 16Ω	4Ω & 8Ω	8Ω & 15Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω
Sensitivity	97dB	95dB	94dB	98dB	95dB	96dB	99dB	95dB	95dB	99dB
Voice Coil Diameter	2", 50.8mm	1", 25mm	1", 25mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.25", 31.25mm	2", 50mm
Magnet Type	Ceramic	Ceramic	Ceramic	Alnico	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Magnet Weight	35oz, 0.9kg	13oz, 0.37kg	13oz, 0.37kg	n/a	20oz, 0.56kg	20oz, 0.56kg	31oz, 0.8kg	20oz, 0.56kg	16oz, 0.41kg	50oz, 1.42kg
Frequency Range	60-12000Hz	100-5000Hz	80Hz-5500Hz	80-6000Hz	95-5500Hz	100-5500Hz	90-5500Hz	85-5500Hz	65-4000Hz	
Resonance Frequency, F_s	70Hz	120Hz	86Hz	98Hz	98Hz	98Hz	115Hz	90Hz	95Hz	85Hz
DC Resistance, R_e	6.07Ω	2.63Ω, 6.55Ω & 12.88Ω	3.15Ω & 6.6Ω	6.66Ω & 13.56Ω	6.4Ω & 12.05Ω	6.4Ω & 12.05Ω	7.47Ω & 12.33Ω	6.78Ω & 12.92Ω	6Ω & 11.07Ω	6.4Ω
MOUNTING INFORMATION										
Cut-out Diameter	11.1", 283mm	7.2", 183mm	9.0", 229mm	9.0", 229mm	9.0", 229mm	9.0", 229mm	9.0", 229mm	9.0", 229mm	9.0", 229mm	13.8", 351mm
Diameter	12.2", 308.8mm	8.1", 205mm	10.1", 256mm	10.1", 255.8mm	10.1", 255.8mm	10.1", 255.8mm	10.1", 255.8mm	10.1", 255.8mm	10.1", 255.8mm	15.2", 384mm
Magnet Structure Diameter	5.7", 145mm	3.3", 85mm	3.35", 85mm	5.16", 131mm	4.9", 124mm	4.9", 124mm	5.3", 134mm	4.5", 115mm	3.8", 92mm	6.1", 156mm
Mounting Hole Dimensions	0.31", 7.9mm Ø	0.19 x 0.31", 5 x 8mm	0.35" x 0.26", 8.9mm x 6.5mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.36 x 0.24", 9.2x7.9mm
Mounting Hole PCD	11.7", 297mm	7.7", 195mm	9.6", 244mm	9.6", 244mm	9.6", 244mm	9.6", 244mm	9.6", 244mm	9.6", 244mm	9.6", 244mm	14.6", 369mm
Number of Mounting Holes	8	4	8	8	8	8	4	8	8	8
Chassis Depth*	3.7", 94mm	2.28", 58mm	2.83", 72mm	2.83", 72mm	2.83", 72mm	2.83", 72mm	2.83", 72mm	2.83", 72mm	2.83", 72mm	4.58", 117mm
Magnet Depth	1.3", 33mm	1.02", 26mm	1.38", 35mm	2.43", 73mm	1.17", 30mm	1.17", 30mm	1.22", 31mm	1.02", 26mm	1.16", 30mm	1.5", 38mm
Overall Depth	5", 127mm	3.30", 84mm	4", 100mm	5.75", 146mm	4.0", 102mm	4.0", 102mm	4.1", 104mm	3.9", 99mm	4.06", 103mm	6.0", 153mm
Unit Weight	7.9lb, 3.6kg	2.2lb, 1kg	2.7lb, 1.2kg	6.0lb, 2.7kg	3.6lb, 1.7kg	3.6lb, 1.7kg	5.3lb, 2.4kg	3.5lb, 1.6kg	3.1lb, 1.4kg	10.6lb, 4.8kg

GUITAR SPEAKER FREQUENCY RESPONSE



BASS SPEAKER SPECIFICATIONS

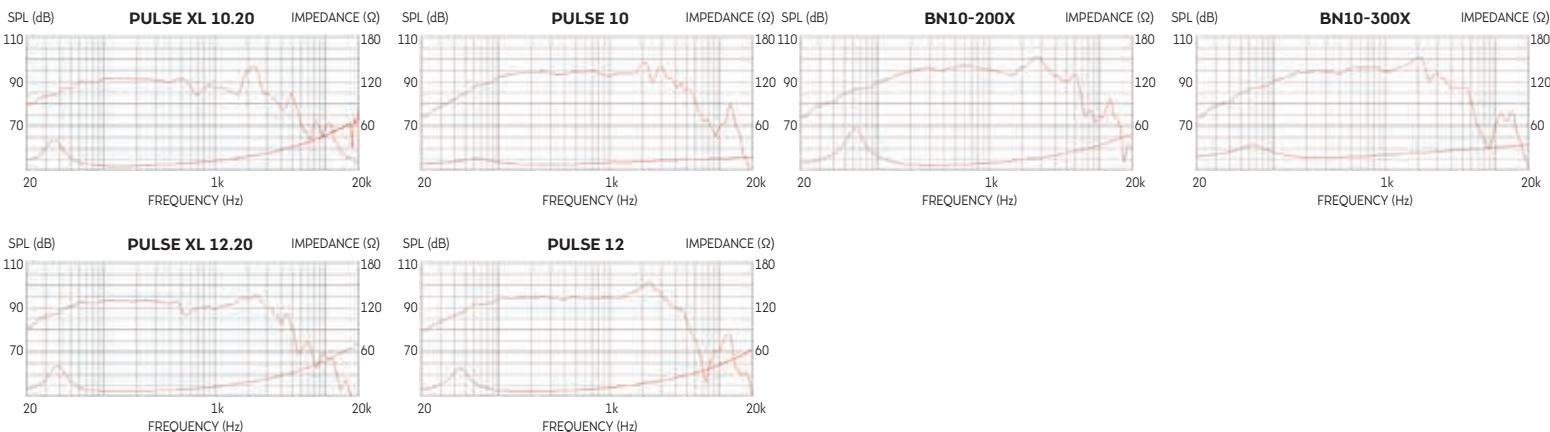
10"

12"

	PULSE XL 10.20	PULSE 10	BN10-200X	BN10-300X	PULSE XL 12.20	PULSE 12
GENERAL SPECIFICATIONS						
Nominal Diameter	10", 254mm	10", 254mm	10", 254mm	10", 254mm	12", 305mm	12", 304.8mm
Power Rating	400W	200W	200W	300W	500W	200W
Nominal Impedance	8Ω	8Ω	8Ω	4Ω	8Ω	8Ω
Sensitivity	92dB	94dB	96dB	96dB	94dB	94dB
Magnet Type	Ferrite	Ferrite	Neodymium	Neodymium	Ferrite	Ferrite
Voice Coil Diameter	2", 50mm	2", 50.8mm	2", 50.8mm	2.5", 63.5mm	2", 50mm	2", 50mm
Coil Material	Copper	Copper	Copper	Copper	Copper	Copper
Cone Material	Cellulose	Kevlar loaded paper	Kevlar loaded paper	Kevlar loaded paper	Cellulose	Kevlar loaded paper
Former Material	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide
Surround Material	Cloth-sealed, triple roll	Cloth-sealed	Cloth-sealed	Cloth-sealed	Cloth-sealed, triple roll	Cloth-sealed
Frequency Range	40-2200Hz	45-3500Hz	45-3500Hz	40-2500Hz	35-2200Hz	45-3500Hz
Xmax	0.32", 8.25mm	0.15", 4mm	0.15", 4mm	0.15", 4mm	0.32", 8.25mm	0.15", 4mm
Gap Depth	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm
Voice Coil Winding Width	0.81", 20.6mm	0.62", 16mm	0.62", 16mm	0.62", 16mm	0.8", 20.5mm	0.62", 16mm
SMALL SIGNAL PARAMETERS						
Sd	346.4cm ²	346.4 cm ²	346.4 cm ²	346.4 cm ²	530.9cm ²	530.9cm ²
Fs	37.5Hz	66.3Hz	50.7Hz	64Hz	35.1Hz	45Hz
Mms	39.79g	32.6g, 1.15oz	32.21g, 1.14oz	35.81g, 1.26oz	53.55g	47.6g, 1.68oz
Qms	6.678	3.92	3.67	3.33	6.087	2.74
Qes	0.493	0.501	0.297	0.5	0.548	0.49
Qts	0.459	0.444	0.274	0.43	0.503	0.42
Re	5.8Ω	5.85Ω	5.9Ω	3.0Ω	5.83Ω	5.8Ω
Vas	76.92l, 2.7cu.ft.	30lt, 1.06cu.ft.	52lt, 1.84cu.ft.	29.2lt, 1.03cu.ft.	153.3l, 5.4cu.ft.	104.6lt, 3.7cu.ft.
Bl	10.51Tm	12.59Tm	14.29Tm	9.39Tm	11.21Tm	12.71Tm
Cms	0.453mm/N	0.177mm/N	0.306mm/N	0.17mm/N	0.384mm/N	0.26mm/N
Rms	1.403kg/s	3.46kg/s	2.79kg/s	4.34kg/s	1.939kg/s	4.92kg/s
Le (at 1kHz)	1.2mH	0.75mH	0.63mH	0.32mH	1.31mH	1.0mH
MOUNTING INFORMATION						
Cut-out Diameter	9.18", 233.2mm	9", 229mm	9", 229mm	9", 229mm	11.08", 281.4mm	11.1", 283mm
Diameter	10.08", 256mm	10.1", 256mm	10.1", 256mm	10.1", 256mm	12.26", 311.4mm	12.2", 309mm
Mounting Hole Dimensions	0.25", 6.4mm Ø	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.25", 6.4mm Ø	0.31", 7.9mm Ø
Mounting Hole PCD	9.66", 245.4mm	9.6", 245mm	9.6", 245mm	9.6", 245mm	11.7", 297.5mm	11.7", 297mm
Number of Mounting Holes	8	8	8	8	8	8
Chassis Depth*	9.33", 79mm	3.06", 76mm	3.02", 77mm	2.96", 76mm	10.74", 91mm	3.76", 96mm
Magnet Depth	1.42", 36mm	1.34", 34mm	1.38", 35mm	1.44", 37mm	1.42", 36mm	1.34", 34mm
Overall Depth	4.53", 115mm	4.4", 110mm	4.4", 112mm	4.4", 112mm	5", 127mm	5.1", 130mm
Unit Weight	8.8lb, 4kg	6.6lb, 3kg	3.3lb, 1.5kg	3.5lb, 1.6kg	9lb, 4.1kg	7lb, 3.2kg

* Including gasket

BASS SPEAKER FREQUENCY RESPONSE



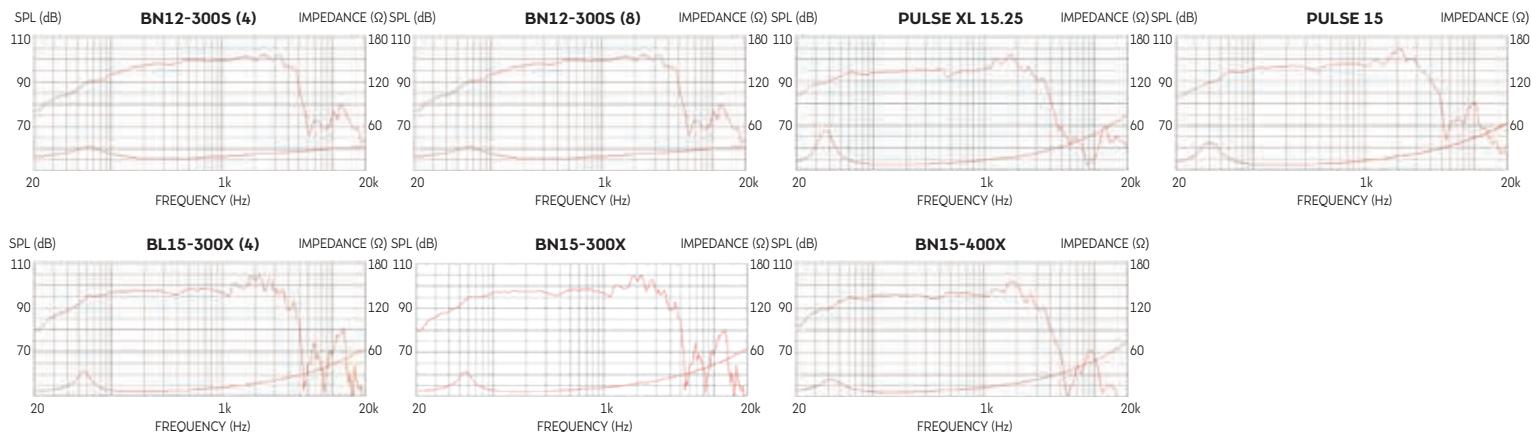
BASS SPEAKER SPECIFICATIONS

CELESTION

15"

	BN12-300S (4)	BN12-300S (8)	PULSE XL 15.25	PULSE 15	BL15-300X (4)	BN15-300X	BN15-400X
GENERAL SPECIFICATIONS							
Nominal Diameter	12", 304.8mm	12", 304.8mm	15", 381mm	15", 381mm	15", 381mm	15", 381mm	15", 381mm
Power Rating	300W	300W	700W	400W	300W	300W	400W
Nominal Impedance	4Ω	8Ω	8Ω	8Ω	4Ω	4Ω	8Ω
Sensitivity	99dB	99dB	97dB	96dB	96dB	96dB	95dB
Magnet Type	Neodymium	Neodymium	Ferrite	Ferrite	Ferrite	Neodymium	Neodymium
Voice Coil Diameter	2.5", 63.5mm	2.5", 63.5mm	2.5", 63.5mm	3", 76.2mm	2.5", 63.5mm	2.5", 63.5mm	3", 76.2mm
Coil Material	Copper	Copper	Copper	CCAW	Copper	Copper	Copper
Cone Material	Kevlar loaded paper	Kevlar loaded paper	Cellulose	Kevlar loaded paper	Kevlar loaded paper	Kevlar loaded paper	Kevlar loaded paper
Former Material	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide
Surround Material	Cloth-sealed	Cloth-sealed	Cloth-sealed, triple roll	Cloth-sealed	Cloth-sealed	Cloth-sealed	Cloth-sealed
Frequency Range	50-4000Hz	50-4000Hz	35-2100Hz	40-3500Hz	42-3500Hz	42-3500Hz	38-3000Hz
Xmax	0.098", 2.5mm	0.098", 2.5mm	0.31", 8mm	0.18", 4.75mm	0.16", 4.25mm	0.15", 4mm	0.15", 4mm
Gap Depth	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.39", 10mm
Voice Coil Winding Width	0.5", 12.7mm	0.5", 12.7mm	0.79", 20mm	0.68", 17.5mm	0.64", 16.5mm	0.65", 16.5mm	0.70", 18mm
SMALL SIGNAL PARAMETERS							
Sd	530.9cm ²	530.9cm ²	855.3cm ²	855.3 cm ²	855.3 cm ²	855.3 cm ²	855.3 cm ²
Fs	51.4Hz	62.1Hz	39.9Hz	35.1Hz	48.1Hz	57.8Hz	35.1Hz
Mms	48.31g, 1.7oz	52.38g, 1.85oz	85.27g	83.32g, 2.94oz	83.39g, 2.91oz	84.24g, 2.97oz	83.98g, 2.96oz
Qms	3.64	2.74	12.22	4.75	2.99	4.49	5.07
Qes	0.395	0.361	0.72	0.474	1.004	1.1	0.588
Qts	0.356	0.319	0.68	0.431	0.751	0.9	0.527
Re	2.7Ω	5.1Ω	6.66Ω	5.7Ω	3.1Ω	3.1Ω	5.2Ω
Vas	80.6lt, 2.85cu.ft.	50lt, 1.77cu.ft.	193.2l, 6.82cu.ft.	246.7lt, 8.7cu.ft.	137.7lt, 4.86cu.ft.	98.7lt, 3.48cu.ft.	253lt, 8.93cu.ft.
Bl	10.37Tm	17.02Tm	14.1Tm	15.06Tm	8.83Tm	9.13Tm	12.9Tm
Cms	0.198mm/N	0.125mm/N	0.187mm/N	0.24mm/N	0.133mm/N	0.09mm/N	0.244mm/N
Rms	4.296kg/s	7.455kg/s	1.75kg/s	3.93kg/s	8.327kg/s	6.42kg/s	3.655kg/s
Le (at 1kHz)	0.26mH	0.51mH	1.14mH	0.87mH	0.45mH	0.39mH	1.08mH
MOUNTING INFORMATION							
Cut-out Diameter	11.1", 283mm	11.1", 283mm	13.9", 353mm	13.8", 351mm	13.8", 351mm	13.8", 351mm	13.8", 351mm
Diameter	12.2", 309mm	12.2", 309mm	15.15", 385mm	15.2", 385mm	15.2", 385mm	15.2", 385mm	15.2", 385mm
Mounting Hole Dimensions	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.25", 6.4mm Ø	0.36x0.24", 9.2x6.2mm	0.36x0.24", 9.2x6.2mm	0.36x0.24", 9.2x6.2mm	0.36x0.24", 9.2x6.2mm
Mounting Hole PCD	11.7", 297mm	11.7", 297mm	14.5", 370mm	14.5", 369mm	14.5", 369mm	14.5", 369mm	14.5", 369mm
Number of Mounting Holes	4	4	8	8	8	8	8
Chassis Depth*	3.76", 96mm	3.76", 96mm	4.6", 117mm	4.61", 117mm	4.67", 116mm	4.56", 116mm	4.56", 116mm
Magnet Depth	1.44", 37mm	1.44", 37mm	1.79", 46mm	1.79", 46mm	1.80", 46mm	1.44", 37mm	1.56", 40mm
Overall Depth	5.24", 133mm	5.24", 133mm	6.42", 163mm	6.42", 163mm	6.47", 162mm	6", 152mm	6.12", 155mm
Unit Weight	4.4lb, 2.0kg	4.4lb, 2.0kg	12lb, 5.4kg	10.8lb, 4.9kg	10.6lb, 4.8kg	5.1lb, 2.3kg	5.7lb, 2.6kg

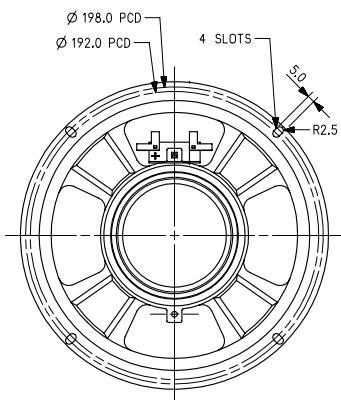
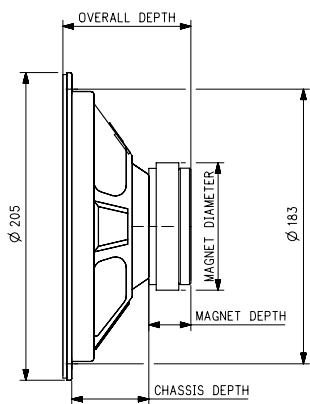
BASS SPEAKER FREQUENCY RESPONSE



CHASSIS DIMENSIONS

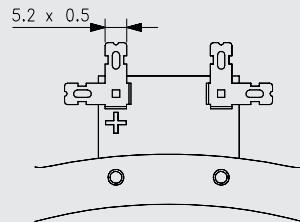
For illustrative purposes only. Refer to Mounting Information for complete, individual speaker dimensions. Measurements shown in mm, to convert to inches, divide by 25.

8" SPEAKERS

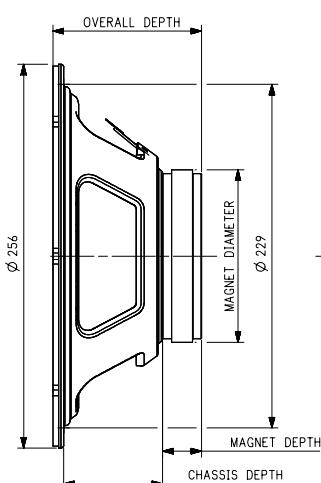
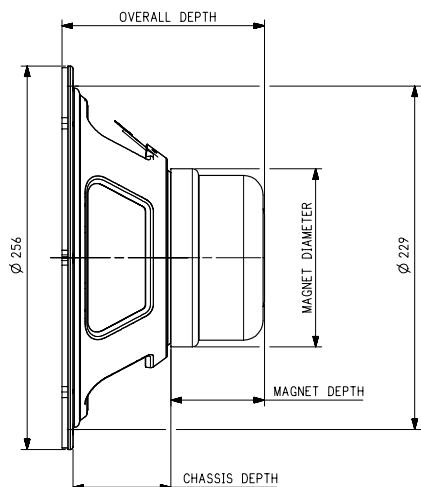


CONNECTOR TAGS

Connector tag dimensions are common to all speakers



10" SPEAKERS



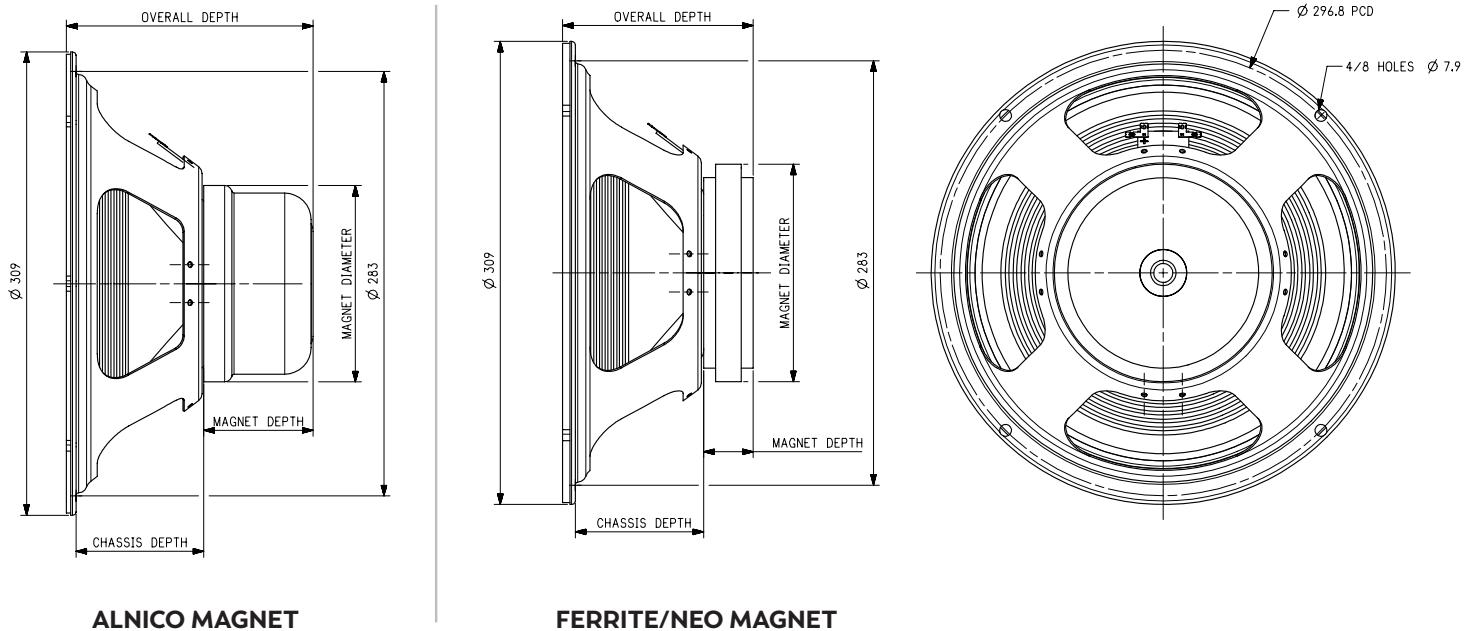
ALNICO MAGNET

FERRITE/NEO MAGNET

CHASSIS DIMENSIONS

For illustrative purposes only. Refer to Mounting Information for complete, individual speaker dimensions. Measurements shown in mm, to convert to inches, divide by 25.

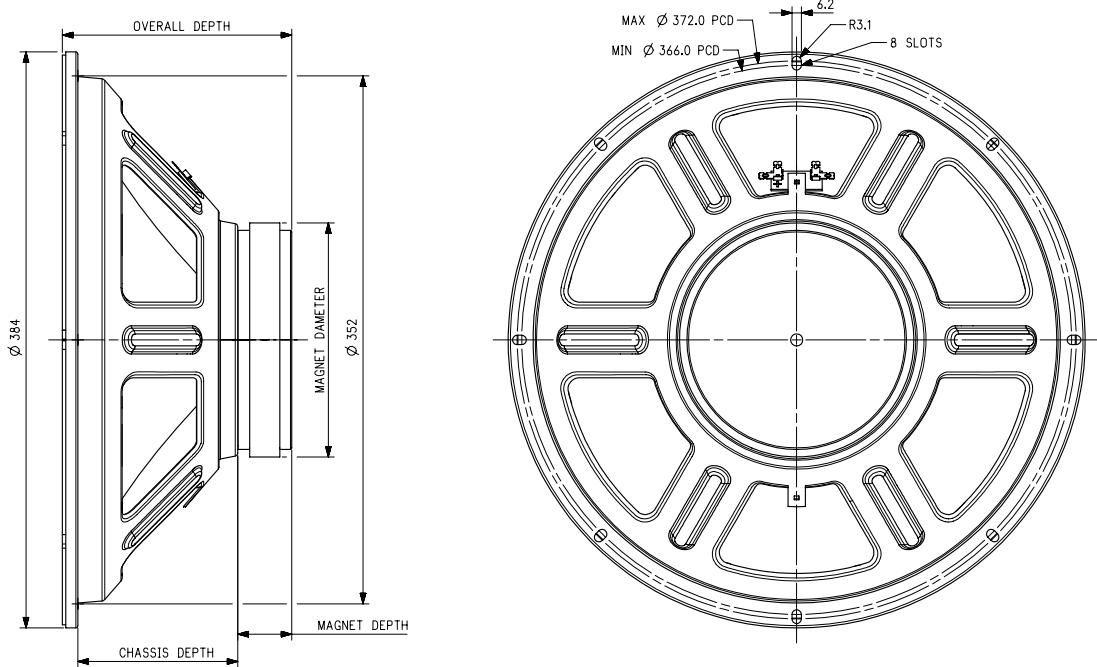
12" SPEAKERS



ALNICO MAGNET

FERRITE/NEO MAGNET

15" SPEAKERS



FERRITE/NEO MAGNET



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drive unit specifications and/or appearance without prior notice. E&OE
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