

## Preliminary Specifications

# // ASCENSION F90 12-Inch Guitar Loudspeaker



### GENERAL SPECIFICATIONS (8Ω Model)

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	8 / 16 Ω
Power Rating**	90 Watts
Frequency Range	70 Hz - 5 kHz
Sensitivity (1 w - 1 m)	100 dB
Magnet Weight	1.7 Kg / 59.97 oz
Magnetic Gap Depth	8 mm / 0.31"
Flux Density	1.4 Tesla
Coil Winding Height	11 mm / 0.43"
Voice Coil Diameter	44.45 mm / 1.75"

### MATERIALS OF CONSTRUCTION

Voice Coil Material	Copper
Former Material	Paper
Magnet Material	Ceramic
Chassis Material	Pressed Steel
Cone Material	Paper
Front Gasket Material	Foam
Surround / Edge Termination	Paper
Dust Dome	Fabric
Connectors	Solder Tabs

### MOUNTING INFORMATION

Overall Diameter	309 mm / 12.17"
Flange Height	5 mm / 0.20"
Overall Depth	130 mm / 5.12"
Magnet Structure Diameter	152 mm / 5.98"
Gasket(s) Supplied	Front & Rear
Baffle Cut-out Diameter	284 mm / 11.18"
Mounting Hole Information	4 x ø8mm on 297 mm PCD
Nett Weight	4.85 Kg / 10.69 lb

The ceramic magnet, 12-inch, 90 watt, Ascension F90 is the speaker of choice for modern rock and metal sounds. Its articulate high end and super-tight bottom deliver precision and punch while maintaining the legendary Fane tonal character.

Suited for use in closed back 4x 12 and 2x 12 cabinets as well as single open back applications, the F90 makes a bold tonal statement. Even at low volumes, the F90 provides a great low end you can feel, and thanks to its high power rating can handle the most punishing high sound pressure level situations.

### THIELE SMALL PARAMETERS

Fs	70 Hz	Vas	61.0 Litres
Re	6.5 Ω	Vd	0.077 Litres
Le	0.24 mH	Sd	511 cm <sup>2</sup>
L2	0.79 mH	Cms	0.16 mm/N
R2	20.4 Ω	BL	14.95 T/m
Qms	19.6	Mms	29.49 g
Qes	0.39	Xmax / Xlim	1.5 mm / 6 mm
Qts	0.38	Efficiency %	5.54 %

### IMPEDANCE AND FREQUENCY RESPONSE

