

## Preliminary Specifications

# // ASCENSION F70 12-Inch Guitar Loudspeaker



### GENERAL SPECIFICATIONS (8Ω Model)

|                          |                  |
|--------------------------|------------------|
| Nominal Chassis Diameter | 12" / 304.8 mm   |
| Impedance                | 8 / 16 Ω         |
| Power Rating**           | 70 Watts         |
| Frequency Range          | 70 Hz - 5 kHz    |
| Sensitivity (1 w - 1 m)  | 100 dB           |
| Magnet Weight            | 1.7 Kg / 59 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     |

Understanding all of the subtle elements of amplifier and speaker cabinet behaviour has given Fane a decided engineering edge in developing the all new, Ascension F70. The 12-inch, 70 watt, ceramic magnet driver represents the evolution of a classic tone guitar speaker for players looking for a fresh point of reference.

Promising to be the new most talked about speaker in a generation with its unique ability to enhance the performance of clean low gain amplifiers and high gain shred machines alike. It is just as at home in a classic rear mounted 4x 12 as it is in a modern front mounted application. The F70 offers a stunningly detailed top-end, rich mid-range and warm low-end with an intricate three-dimensional vintage crunch. The beauty of the F70 is that you need not even change your amplifiers setting to appreciate its ability to articulate delicate passages or manage pummeling abuse with ease. Whether your application is a head and cab or an open back combo, the F70 most definitely adds a welcome new dimension to existing rigs.

### THIELE SMALL PARAMETERS

|     |         |              |                     |
|-----|---------|--------------|---------------------|
| Fs  | 70 Hz   | Vas          | 61.8 Litres         |
| Re  | 7.6 Ω   | Vd           | 0.077 Litres        |
| Le  | 0.26 mH | Sd           | 511 cm <sup>2</sup> |
| L2  | 0.80 mH | Cms          | 0.16 mm/N           |
| R2  | 22.5 Ω  | BL           | 15.6 T/m            |
| Qms | 20.3    | Mms          | 29.6 g              |
| Qes | 0.41    | Xmax / Xlim  | 1.5 mm / 6 mm       |
| Qts | 0.40    | Efficiency % | 5.17 %              |

### IMPEDANCE AND FREQUENCY RESPONSE

