True ribbons for the truth never experienced before
RAAL is proud to present the pinnacle of contemporary true ribbon transducer design. It defines new limits to an old concept. Superior in sound quality and reliability, it deals with every task by incomparable dominance. The uncompresed reproduction of the signal dynamics, is what makes it better than any corrugated true ribbon design and, still, it has only 4 micrometer Aluminum foil. New ideas, science, art and experience, brought together. Painstakingly bred by connoisseurs for their own kind.

**MODEL**

70-10 **FLATFOIL**

**FEATURES:**
- **Special FLATFOIL** pure aluminium ribbon
- **Special SYMMLEAD** low inductance signal path
- **Special EQUAFIELD** NdFeB magnetic structure
- Special "non-wave-guide" INOX front plate
- Super-fast settling time
- **Flat frequency response**
- Low distortion
- **Highest reliability**
- High signal power handling

*FLATFOIL*, SYMMLEAD<sup>®</sup> and EQUAFIELD<sup>®</sup> are registered trademarks of RAAL Advanced Loudspeakers d.o.o.
RAAL
70-10 FLATFOIL®

SPECIFICATIONS:

- RIBBON MATERIAL: ALUMINIUM
- RIBBON DIMENSIONS: (70 x 9.5 x 0.004) mm
- RIBBON MASS: 0.0075 g
- RIBBON AREA: 6.65 cm sq.
- GAP INDUCTION: 0.62 T
- FREQUENCY RESPONSE: 2 kHz ~ 100 kHz
- SENSITIVITY: 92 dB / 1m / 2.83 V
- IMPEDANCE: 8 Ohm
- PROGRAM POWER HANDLING: 150 W*
- *RECOMMENDED CROSSOVER: 4TH ORDER L-R @ 2800 Hz
RAAL 70-10 FLATFOIL

PERFORMANCE:

SPL vs FREQ. & HORIZONTAL DISPERSION

SPL vs FREQ. & VERTICAL DISPERSION

IMPULSE RESPONSE

IMPEDANCE

THD

SPECTRAL DECAY
**Mechanical Drawing**

**Front View**
- Dimensions: 90.0 x 60.0 mm
- Weight: 1.35 kg
- All dimensions in millimeters

**Side View**
- Dimensions: 65.0 x 100.0 mm

**Top View**
- Dimensions: 75.0 x 56.0 mm

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**Recommended Crossover Network**

- Attenuation Resistor: 10.0 Ohm
- Values: 3.3, 4.7, 6.8, 10.0 µF
- Transformer Ratio: 1:1

The exact values should be determined by acoustic measurements with the bass-mid unit.

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**Replacing the Ribbon Replacement Kit on RAAL Ribbon Speakers**

1. Unthread the soldering points 1 and 2 in the ribbon kit.
2. Unthread all the screws on the front plate.
3. Carefully lift the front plate.
4. Carefully lift the replacement kit.
5. Lifting the rear side of the front, then lift up the front side.
6. Put the new crossover kit in place of the existing one.
7. Put the screws back, and ensure they are tight.

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**RAAL Advanced Loudspeakers d.o.o.**

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