

ADVANCED LOUDSPEAKERS

TRUE RIBBONS FOR THE TRUTH  
NEVER EXPERIENCED BEFORE

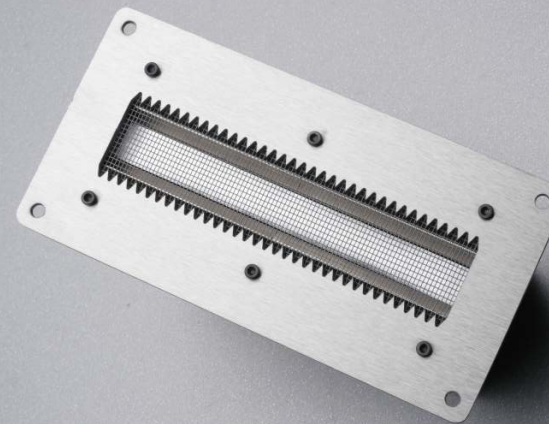
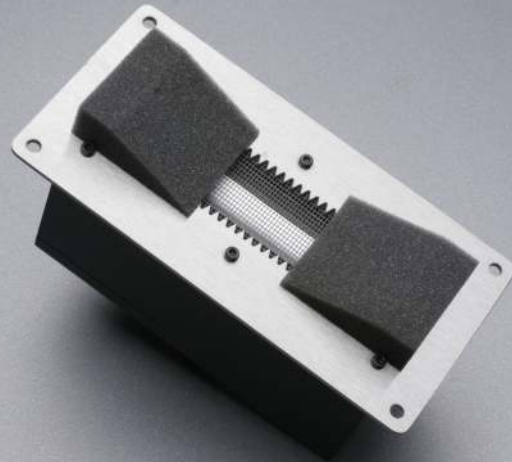
RAAL IS PROUD TO PRESENT THE PINNACLE OF CONTEMPORARY TRUE RIBBON TRANSDUCER DESIGN. IT DEFINES NEW LIMITS TO AN OLD CONCEPT. SUPERIOR IN SOUND QUALITY AND RELIABILITY, IT DEALS WITH EVERY TASK BY INCOMPARABLE DOMINANCE. THE UNCOMPRESSED REPRODUCTION OF THE SIGNAL DYNAMICS, IS WHAT MAKES IT BETTER THAN 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

# 140-15D *FLATFOIL*<sup>®</sup>

FEATURES :

- SPECIAL *FLATFOIL*<sup>®</sup> PURE ALUMINIUM RIBBON
- SPECIAL *SYMMLEAD*<sup>®</sup> LOW INDUCTANCE SIGNAL PATH
- SPECIAL *EQUAFIELD*<sup>®</sup> NDFEB MAGNETIC STRUCTURE
- SPECIAL "NON-WAVE-GUIDE" INOX FRONT PLATE
- UNIQUE "DEFLECTOR PADS"
- EXCEPTIONAL VERTICAL DISPERSION
- SUPER-FAST SETTLING TIME
- FLAT FREQUENCY RESPONSE
- LOW DISTORTION
- HIGHEST RELIABILITY
- HIGH SIGNAL POWER HANDLING



## RAAL

### 140-15D *FLATFOIL*<sup>®</sup>

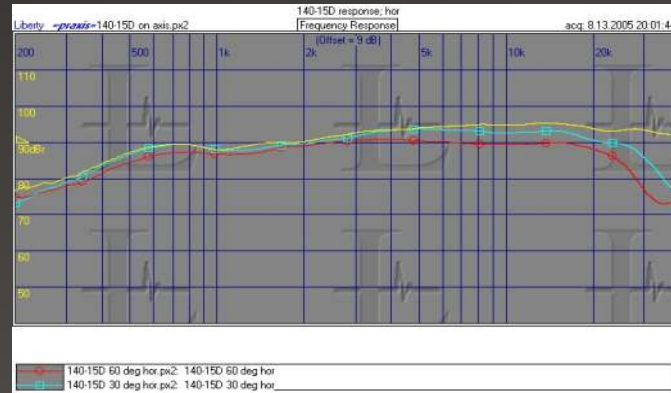
#### SPECIFICATIONS:

RIBBON MATERIAL:	ALUMINIUM
RIBBON DIMENSIONS:	( 140 x 15 x 0.004 ) MM
RIBBON MASS:	0.022 G
RIBBON AREA:	21 CM SQ.
GAP INDUCTION:	0,51 T
FREQUENCY RESPONSE:	500 HZ ~ 100 KHZ
SENSITIVITY:	95 DB / 1M / 2,83 V
IMPEDANCE:	8 OHM
PROGRAM POWER HANDLING:	200 W*
*RECOMMENDED CROSSOVER:	4TH ORDER L-R @ 1600 HZ

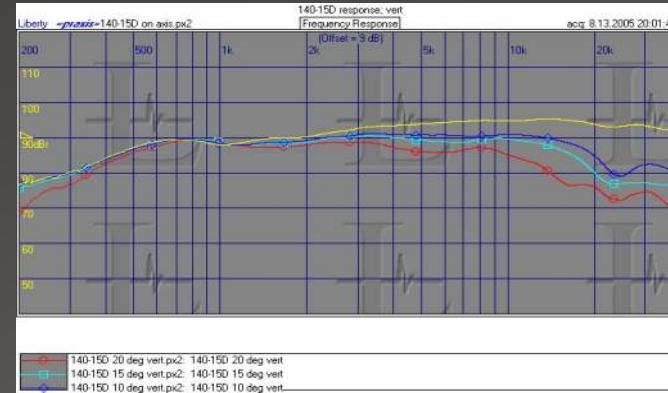
# RAAL

## 140-15D *FLATFOIL*®

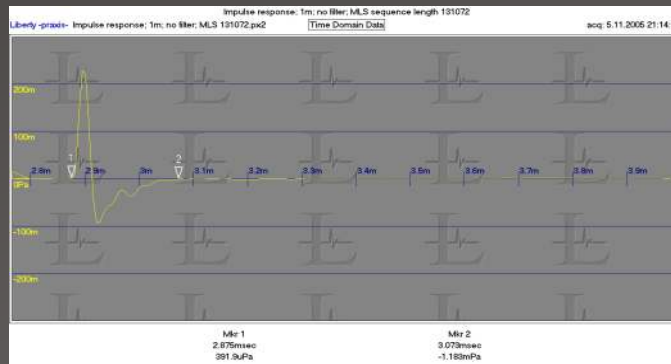
### PERFORMANCE:



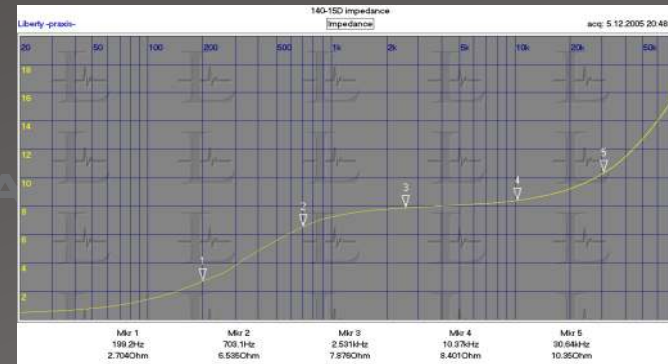
SPL vs FREQ. & HORIZONTAL DISPERSION



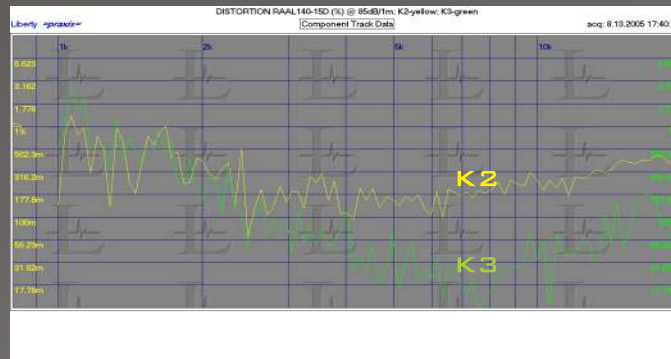
SPL vs FREQ. & VERTICAL DISPERSION



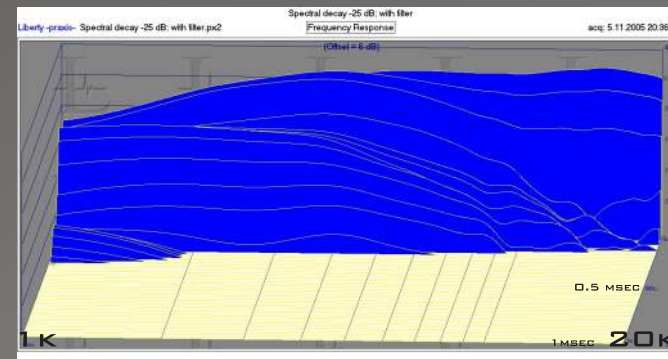
IMPULSE RESPONSE



IMPEDANCE



HARMONIC DISTORTION

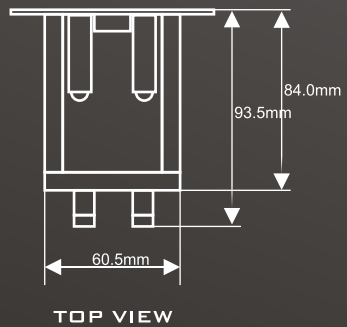
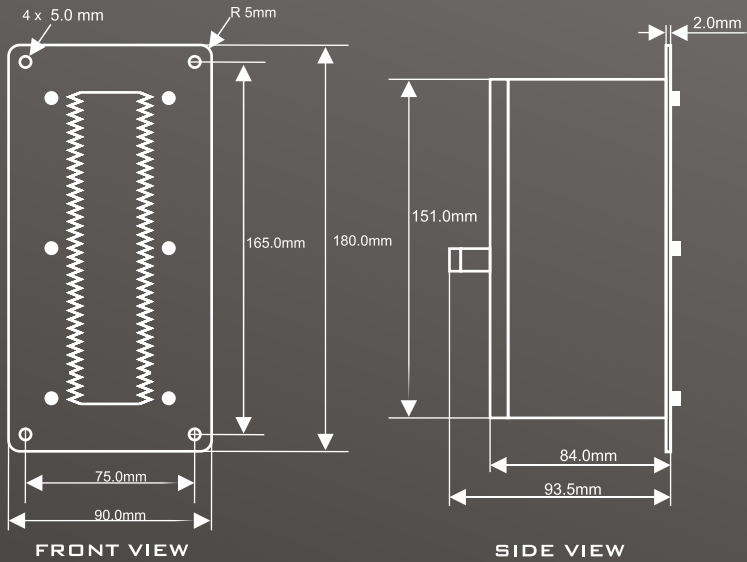


SPECTRAL DECAY

# RAAL

## 140-15D *FLATFOIL*<sup>®</sup>

### MECHANICAL DRAWING

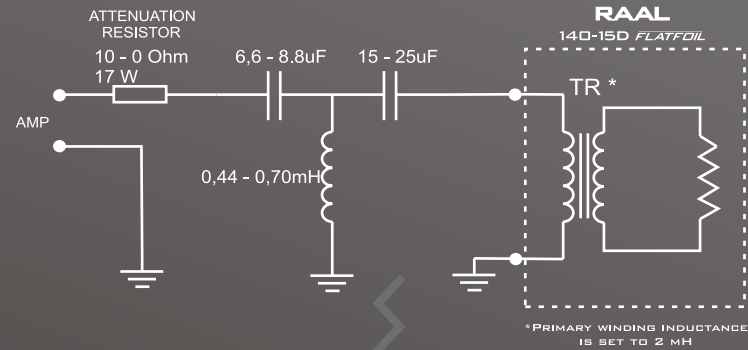


BAFFLE HOLE: 153 MM X 63 MM

WEIGHT: 2.7 KG

ALL DIMENSIONS +/- 0.3 MM

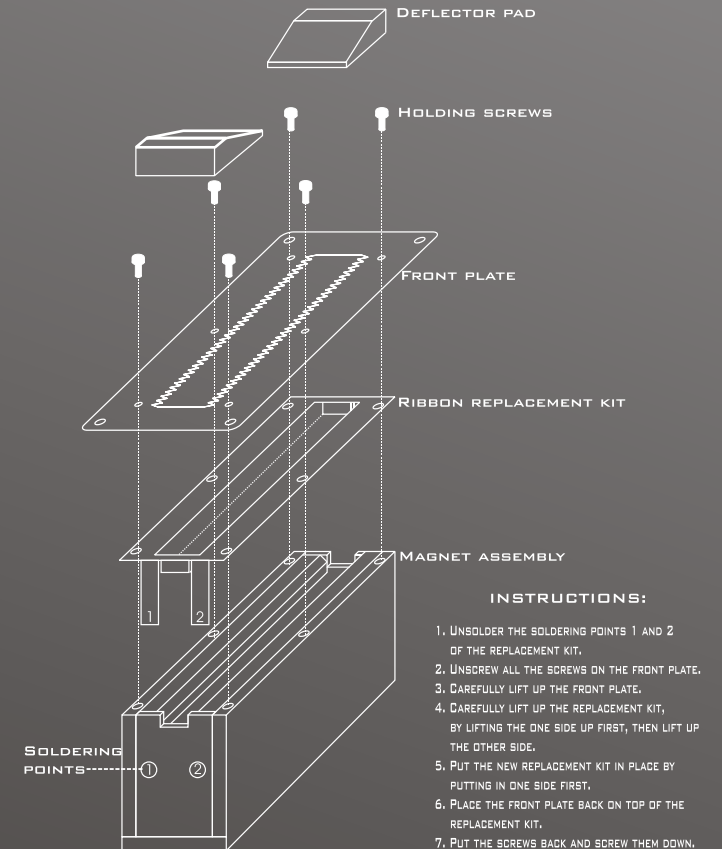
### RECOMMENDED CROSSOVER NETWORK



THE EXACT VALUES SHOULD BE DETERMINED BY ACOUSTIC MEASUREMENTS WITH THE BASS-MID UNIT.

RAAL

### REPLACING THE RIBBON REPLACEMENT KIT ON RAAL RIBBON SPEAKERS



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