

## REAR PROJECTION MODULE (RPM)

### Rear Projection Module (RPM) Suggested Specifications:

The Rear Projection Module (RPM) is a precision, aluminum extrusion based rear projection module. It is designed specifically to meet the exacting requirements of newer, digital projectors, and is manufactured to precise tolerances. The RPM is used to save valuable real estate by folding the projector's light path utilizing an optical quality first surface mirror. State-of-the-Art solid modeling software is used to design the RPM.

The RPM shall be constructed of matte black anodized 1-3/4" square aluminum extrusion. The aluminum shall be 6063-T6 Alloy with a 1/8" typical wall. The connections of the extrusion shall be die cast Zinc #3 alloy powder-coated corner blocks. All sheet metal parts shall be powder-coated steel utilizing a minimum of 14 or 16 gauge material.

The RPM is equipped with plastic non-marking adjustable feet that have a  $\pm 7/8$ " range of adjustment to allow for a precise and level system in almost any uneven surface environment.

The mirror(s) shall be 94% reflective optical quality first surface glass, protected with a rubber compression gasket, utilizing 3-point suspension to ensure mirror surface flatness.

### Features:

- Designed to the specific projector and screen criteria, and to the physical characteristics of the utilized space.
- Fine-Tuning Projector Cradle (a 6-Axis adjustment projector mount) standard on all units.
- Mirror(s) positively pre-located in the manufacturing process and therefore preset in a fixed position.
- Fine-Tuning Projector Cradle mounting plate design to accept the specified projector.
- Available as a one (single-fold) or two mirror system (double fold).
- Standard with first surface projection grade mirror(s) up to 48" x 60".
- Frame constructed of heavy-duty aluminum extrusion with black anodized finish and a connector block of die cast zinc alloy with a black powder coat finish.
- Easily assembled utilizing unique 8mm T-bolts and serrated washer nuts.

### Options:

- Heavy-Duty adjustable "fine tuning" cradle is available for projectors in excess of 50 pounds.
- Slide Projector Shelf.
- Perfect Image Mirror Management System to allow for precise image adjustment.

### General Specifications For Glass Front Surface Projection Mirrors:

- First surface glass mirrors optical quality, 94% reflective, and used in the RPM and TTW systems.
- Framed using 1-3/4" black anodized aluminum extrusion to insure stability and flatness.
- Oversize mirrors backed with stiffeners are bonded to the surface to maintain flatness.

**Reflectance:** 94%

**Adhesion:** No mirror surface will be lifted by the "cellophane tape adhesion test"

**Temperature Stability:** -30°C to 260°C

**Flatness:** Maximum 2 fringes per inch

**Size:** Up to 48" x 60". Other custom sizes available upon request.

**Size Tolerance:**  $\pm 1/4$ "



- Fine tuning projector cradle standard with a host of alignment adjustments.



- Module constructed with Heavy Duty 1-3/4" square aluminum extrusion tubing for durability and precision.



- Adjustable feet compensate for uneven floors.