



## **PRODUCT SPECIFICATION**

### **REAR SCREEN SYSTEM (RSS™)**

#### **General:**

The rear projection system shall be a 50"-200" REAR SCREEN SYSTEM (RSS™) as manufactured by Custom Display Solutions, Inc. The RSS™ is a "component system," consisting of a freestanding PROJECTOR/MIRROR MOUNT (PMM™) Assembly and an independently framed (seamlessly or otherwise), high-resolution rear projection screen. The PMM™ component shall include an optical-quality, "first-surface" mirror, having a reflectivity quotient of 94% or better and a projector mounting bracket with projector hardware. The RSS™ shall be designed to optimize the specified projector's light path trajectory, providing maximum image brightness to primary audience locations.

#### **Design & Documentation:**

The RSS™ shall be designed completely in CAD and sign-off drawings will be provided to the customer prior to fabrication. A serial number shall be applied to the specified design and the CAD files shall be archived for future reference. Assembly instructions shall be detailed and easy to read. Future projector model/lens "upgradeability" shall be considered and employed as discussed with the client.

#### **Construction:**

The RSS™ shall consist of a prefabricated, aluminum extrusion-based, PMM™ structure with leveling feet and an independent, factory framed, rear projection screen. The RSS™ is designed to be installed in a projection room, with a cut-out in the screen wall provided for the framed screen. The aluminum framework of the PMM™ shall consist of precision extruded aluminum profile lengths, held fast by "fixbloc & t-bolt" joinery. There shall be no welded components in the RSS™ design and assembly of the RSS™ shall be performed with simple tools.

#### **Projector & Cable Access:**

The PMM™ component of the RSS™ shall be constructed of an aluminum profile that has 10mm grooves, which can be used for inconspicuous cable management. As an option, these grooves may be camouflaged with black, plastic channel covers that serve to conceal individual BNC cable runs discreetly. For projector access, an optional, projector glide mechanism may be attached to the projector-mounting bracket. This mechanism shall allow the projector to be pulled clear of the RSS™ by a single technician, enabling easy access for service or removal.

#### **Image Registration:**

The RSS™ may be equipped with an optional fine-tuning adjustable projector mount and shall have adjustable mirror mounting brackets for precise image alignment. Projector mount adjustments shall allow for +/- 2.0" of travel for left/right, forward/back, elevation, roll and pitch motion. Construction of the fine-tuning projector mount shall be of precision aluminum extrusion with Dalrin™ sliders and acme threaded rod for smooth travel.

#### **Factory Testing:**

Prior to shipment, the screen shall be QC inspected and the PMM™ shall be tested with the specified projector. Satisfactory performance shall be documented and approved by the manufacturer and the customer at their choice. A written and photographic record of this factory test shall be kept by the manufacturer and made available to the customer upon request.

#### **Warranty:**

The RSS™ Factory Warranty shall cover all parts and labor for one full year from invoice date against defects in manufacturing. The manufacturer reserves the right to repair or replace the system in question to satisfy the customer.