



PRODUCT SPECIFICATION



RSE WITH RAZOREDGE™ FRAMING (RSE-R)

General:

The rear projection enclosure shall be a custom 50"-200" Rear Screen Enclosure with RazorEdge™ Screen Framing (RSE-R) as manufactured by **Custom Display Solutions, Inc.** The RSE-R shall be freestanding, include high resolution rear projection screen, optical-quality, (94%) "first-surface" mirror(s) and a projector-mounting bracket. The RSE-R shall be outfit with RazorEdge™ framing to allow for minimum image separation ($\leq 2\text{mm}$) in a multi-unit array, as for simulation or command & control applications. The RSE-R shall be designed to optimize the specified projector's light path trajectory, providing maximum image brightness to primary audience locations.

Design & Documentation:

The RSE-R shall be completely designed in CAD and sign-off drawings shall 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, should projector model upgrades require retrofit reconfiguration. Detailed assembly instructions shall be provided with the unit.

Construction:

The RSE-R shall be a prefabricated, completely freestanding structure. The RSE-R construction shall consist of light blocking panels (a variety of optional materials shall be provided), supported by an extruded aluminum framework having leveling feet with optional casters. The aluminum framework shall consist of precision extruded aluminum profile lengths, held fast by "fixbloc & t-bolt" or Dalrin™ Slider joinery. There shall be no welded components in the RSE-R design and assembly of the unit shall be performed with simple tools.

Ventilation:

The top of the RSE-R shall be outfit with black mesh covered exhaust ports and may be outfit with optional exhaust fans (as required), to allow for the efficient evacuation of projector heat. The bottom of the unit shall be mostly open to allow for maximum air circulation and to enable cabling to be run directly into the floor. As required, additional intake ports and fans will be strategically added to optimize ventilation.

Projector & Cable Access:

The RSE-R shall have a cable access opening in the rear of the unit. Access to the specified projector shall be through one or more latching, removable access panels. As an option, the projector-mounting bracket may be supported by a heavy-duty, precision drawer slide mechanism. This mechanism shall allow the projector to be pulled clear of the RSE-R by a single technician, enabling easy access for service or removal.

Image Registration:

The RSE-R may be equipped with an optional fine-tuning projector mount bracket and shall have adjustable mirror mounting brackets for precise image alignment. The adjustable projector mount shall allow for +/- 1.0" 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 RSE-R 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 RSE-R 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 defective item as required to satisfy the customer.