

Size and Shape Parameters

The choice of size in the optical shielding ground plane is almost unlimited. Shapes as well are boundless including a multi-plane construction for shielding emitter-detector pair touch panels. Sizes of optical overlays range from less than 0.250" in diameter to very large structural panels.

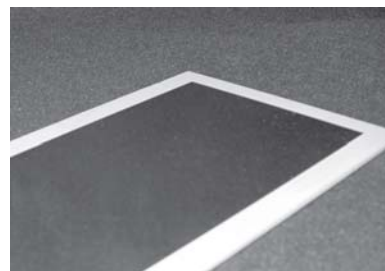
Large EMI/RFI windows of fully laminated acrylic panels with copper mesh are produced in sizes up to 5' by 12'. High performance electroplated wire mesh windows are available in standard sizes up to 3' by 8'. All panels can be sized to any shape required for the customer's application.

Machining and forming capabilities enable us to design a panel to the exact size and shape requested. CRT panels can be formed to any spherical or cylindrical radii up to a 60° diagonal. Capabilities include standard machining equipment as well as state of the art numerically controlled machining centers. This equipment enables us to offer any type of machining such as holes, slots, grooves, and notches that might be required. We also have the resources to machine all standard substrates to extremely tight tolerances, as low as +/-0.002". Standard computer numerically controlled X and Y dimensional tolerances include +/-0.005", +/-0.010" and +/-0.020" for sizes up to 5' by 12'. This can vary with substrate type and design so it is recommended that the customer contact a MAJR Sales or Engineering Representative.

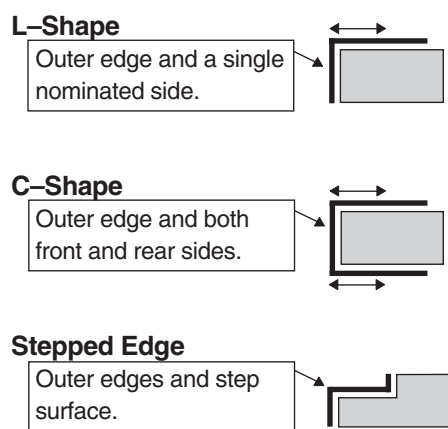
Each application is considered to be unique by MAJR, so that the final product purchased is designed solely for the specific needs of our customer.

Silver Epoxy Busbar

Silver epoxy busbar is applied to the perimeter of machined windows.



Typical Bus Bar Shapes



Typical Busbar Widths (mm)

- 2.0 / 3.0 / 4.0 / 5.0 / 6.4 / 10.0 / 12.7 / 15.0

Table 1 - EMI Shielding Performances

Mesh Composition Base Material/ (Plated Deposit)	Openings/ Inch	Wire Diameter (Inches)	H Field		E	Plane Wave		
			1 MHz	10 MHz	100 MHz	400 MHz	1 GHz	10 GHz
Copper	70	0.003	110	111	98	68	64	38
Copper	100	0.002	107	111	85	70	58	—
Copper (Silver)	100	0.002	107	111	84	76	66	—
Copper (Silver)	145	0.002	128	112	106	84	82	64
Stainless Steel	50	0.002	94	90	82	58	55	28
Stainless Steel	80	0.002	106	88	82	64	60	34
Stainless Steel	100	0.002	166	105	88	76	62	—
Stainless Steel (Silver)	100	0.0012	128	112	92	80	86	74
Stainless Steel (Silver)	165	0.002	137	124	106	100	81	61
Stainless Steel (Silver)	200	0.0012	128	108	98	88	86	68
Stainless Steel (Silver)	230	0.0012	140	120	95	94	80	60