

- The shutter system to have a shielding effectiveness per the Dash, Straus & Goodhue study.
- The shutter system shall have a shielding effectiveness of a least 93.69% attenuation effectiveness, when a tightly sealed electrical contact is made.
- The shutter system shall have a shielding effectiveness of 24dB attenuation effectiveness, when a tightly electrical seal is made.

Exeter security screens protect from more than just intruders. Our advanced screens offer an Electronic Espionage Protection (EMI / RFI) Shield Rating. Due to the use of high-quality perforated metal, the same material used in microwave oven doors, and other electronic enclosures, Window Barriers offer a proven method for shielding Electro-Magnetic and Radio Frequency Interference (EMI/ RFI). A significant benefit of this inherent feature is preventing the passage of unwanted electronic waves and radio waves commonly used by hi-tech eavesdropping systems.

## Shielding Effectiveness - dB

Hole Dia.	60° Center Spacing	% Open area	Thick	Mat'l	Sample Size	30 MHz	100 MHz	300 MHz	1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	12 GHz	14 GHz	16 GHz	18 GHz
.040	.055	48	.022	Alum.	24"x24"	70	70	80	56	55	48	57	35	48	44	42	41	42
.062	.093	40	.027	C.R. St'l	24"x24"	61	67	66	56	45	48	46	44	33	34	38	36	35
.062	.125	23	.025	Alum.	24"x24"	92	84	90	68	65	60	67	35	45	41	38	35	33
.072	.100	47	.038	C.R. St'l	24"x24"	64	70	90	62	55	52	40	33	37	34	33	29	27
.075	.125	32.7	.049	C.R. St'l	24"x24"	72	70	90	72	68	63	68	43	48	39	38	38	37
.078	.109	46.1	.027	C.R. St'l	24"x24"	66	75	72	63	55	54	45	41	39	28	24	21	28
.079	.115	42.8	.036	C.R. St'l	24"x24"	60	64	88	66	60	56	62	33	40	31	30	30	28
.100	.187	25.9	.04	Alum.	24"x24"	66	70	77	69	62	62	67	41	48	31	26	30	27
.125	.187	40.3	.03	Stainless	24"x24"	58	62	57	49	40	37	34	31	26	29	31	33	31
.125	.187	40.3	.03	Alum.	24"x24"	62	63	61	51	44	38	34	31	28	19	16	19	16
.125	.187	40.3	.06	Alum.	24"x24"	71	72	69	58	49	48	39	35	34	31	30	31	22
.125	.187	40.3	.125	Alum.	24"x24"	85	84	84	73	68	84	73	63	51	43	41	42	39
.156	.187	63	.057	C.R. St'l	24"x24"	57	58	59	48	40	35	31	29	26	19	16	13	11
.156	.250	35.4	.057	C.R. St'l	24"x24"	59	64	61	53	43	43	41	36	31	25	25	25	22
.187	.250	51	.027	C.R. St'l	24"x24"	52	52	49	37	31	24	21	19	18	18	21	18	16
.187	.250	51	.057	C.R. St'l	24"x24"	55	56	55	46	36	33	30	27	24	22	24	25	16

# Shielding Effectiveness - % Attenuation

Hole Dia.	60° Center Spacing	% Open area	Thick	Mat'l	Sample Size	30 MHz	100 MHz	300 MHz	1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	12 GHz	14 GHz	16 GHz	18 GHz
.040	.055	48	.022	Alum.	24"x24"	99.97	99.97	99.99	99.84	99.82	99.60	99.86	99.22	99.6	99.4	99.2	99.1	99.2
.062	.093	40	.027	C.R. St'l	24"x24"	99.91	99.96	99.95	99.84	99.44	99.6	99.5	99.37	97.76	98	98.7	98.4	98.2
.062	.125	23	.025	Alum.	24"x24"	100	99.99	99.97	99.96	99.94	99.9	99.96	98.22	99.44	99.1	98.7	98.2	97.8
.072	.100	47	.038	C.R. St'l	24"x24"	99.94	99.97	99.97	99.92	99.82	99.75	99	97.76	98.59	98	97.8	96.5	95.5
.075	.125	32.7	.049	C.R. St'l	24"x24"	99.98	99.97	99.97	99.98	99.96	99.93	99.96	99.29	99.6	98.6	98.7	98.7	98.6
.078	.109	46.1	.027	C.R. St'l	24"x24"	99.95	99.98	99.98	99.93	99.82	99.8	99.44	99.11	98.88	96	93.7	91.1	96
.079	.115	42.8	.036	C.R. St'l	24"x24"	99.9	99.94	100	99.95	99.9	99.84	99.92	97.76	99	97.2	96.8	96.8	96
.100	.187	25.9	.04	Alum.	24"x24"	99.95	99.97	99.99	99.92	99.92	99.92	99.96	99.11	99.6	97.2	95	96.8	95.5
.125	.187	40.3	.03	Stainless	24"x24"	99.87	99.92	99.86	99.65	99	98.59	98.01	97.18	94.99	96.5	97.2	97.8	97.2
.125	.187	40.3	.03	Alum.	24"x24"	99.92	99.93	99.91	99.72	99.37	98.74	98.01	97.18	96.02	88.8	84.2	88.8	84.2
.125	.187	40.3	.06	Alum.	24"x24"	99.97	99.98	99.86	99.87	99.65	99.6	98.88	98.22	98.01	97.2	96.8	97.2	92.1
.125	.187	40.3	.125	Alum.	24"x24"	99.99	99.99	99.99	99.98	99.96	99.99	99.98	99.93	99.72	99.3	99.1	99.2	98.9
.156	.187	63	.057	C.R. St'l	24"x24"	99.86	99.87	99.89	99.6	99	98.22	97.16	96.45	94.99	88.8	84.2	77.6	71.8
.156	.250	35.4	.057	C.R. St'l	24"x24"	99.89	99.94	99.91	99.78	99.29	99.29	99.11	98.42	97.18	94.4	94.4	94.4	92.1
.187	.250	51	.027	C.R. St'l	24"x24"	99.75	99.75	99.65	98.59	97.18	93.69	91.09	88.78	88.78	87.4	91.1	87.4	84.2
.187	.250	51	.057	C.R. St'l	24"x24"	99.82	99.84	99.82	99.5	99.42	97.76	96.84	95.53	93.69	92.1	93.7	94.4	84.2