



Architectural Windows and Window Wall

ALL Series

I-Value Required (in⁴)

Mullion Spacing

Inches	24	30	36	42	48	54	60	66	72	
42	0.0025	0.0028	0.0031	0.0032	0.0036	0.0041	0.0045	0.0050	0.0054	
48	0.0038	0.0045	0.005	0.0053	0.0054	0.0060	0.0067	0.0074	0.0081	
54	0.0055	0.0066	0.0074	0.0081	0.0085	0.0086	0.0096	0.0105	0.0115	
M	60	0.0077	0.0093	0.0106	0.0117	0.0125	0.0130	0.0131	0.0144	0.0158
u	66	0.0103	0.0125	0.0145	0.0161	0.0175	0.0184	0.0190	0.0192	0.0210
I	72	0.0136	0.0165	0.0192	0.0215	0.0235	0.0251	0.0263	0.0270	0.0272
I	78	0.0173	0.0212	0.0248	0.028	0.0308	0.0331	0.035	0.0364	0.0372
i	84	0.0218	0.0267	0.0313	0.0356	0.0393	0.0426	0.0454	0.0476	0.0491
o	90	0.0277	0.0346	0.0415	0.0484	0.0554	0.0623	0.0692	0.0761	0.0831
n	96	0.0336	0.0420	0.0504	0.0588	0.0672	0.0756	0.0840	0.0924	0.1008
H	102	0.0403	0.0504	0.0605	0.0705	0.0806	0.0907	0.1008	0.1108	0.1209
e	108	0.0478	0.0598	0.0718	0.0837	0.0957	0.1076	0.1196	0.1316	0.1435
i	114	0.0563	0.0703	0.0844	0.0985	0.1125	0.1266	0.1407	0.1547	0.1688
g	120	0.0656	0.082	0.0984	0.1148	0.1313	0.1477	0.1641	0.1805	0.1969
h	132	0.0873	0.1092	0.1310	0.1529	0.1747	0.1965	0.2184	0.2402	0.2620
t	144	0.1134	0.1418	0.1701	0.1985	0.2268	0.2552	0.2855	0.3119	0.3402
	156	0.1428	0.1785	0.21425	0.2499	0.2856	0.3213	0.3570	0.3927	0.4284
	168	0.1820	0.2275	0.2730	0.3184	0.3639	0.4094	0.4549	0.5004	0.5459
	180	0.2278	0.2848	0.3417	0.3987	0.4556	0.5126	0.5695	0.6265	0.6834
	192	0.2809	0.3511	0.4213	0.4915	0.5617	0.6320	0.7022	0.7724	0.8426
	204	0.3417	0.4271	0.5125	0.5979	0.6834	0.7688	0.8542	0.9596	1.0250
	216	0.4108	0.5135	0.6162	0.7189	0.8216	0.9242	1.0269	1.1296	1.2323
	228	0.4887	0.6109	0.7331	0.8552	0.9774	1.0996	1.2218	1.3439	1.4661
	240	0.5760	0.7200	0.8640	1.0080	1.1520	1.2960	1.4400	1.5840	1.7280

Factors are for a one psf windload. Multiply this factor by the actual windload to obtain a required 'I' value.

Example:

To determine the 'I' Value for 54" mullion width,
168" mullion height, @ 36 psf windload:

$$\text{Calculate : } (0.4094) * (36 \text{ psf}) = 14.738^4 \text{ in}$$

Notes: Trapezoidal loading used for mullions 84" or less.

Mullions over 168" are designed for
L/240 + 1/4" allowable deflection.

Mullions under 168" are designed for
L/175 allowable deflection.

Based on E=10,000,000 psi (Aluminum)

