

Model GS-410
4" (101.6 mm) Standard Fixed Galvanized Steel Louver

Material:

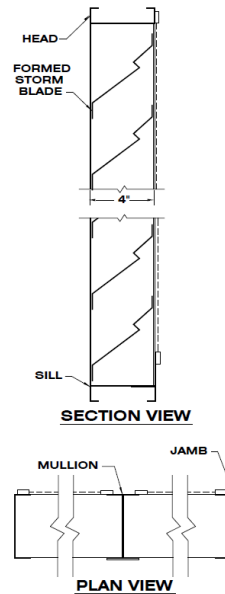
Material:	Galvanized Steel
Nominal Thickness (heads, sills, jambs, & mullions):	Any combination of 16 gauge (1.52 mm), 18 gauge (1.21 mm), or 20 gauge (0.91 mm)
Nominal Blade Thickness:	Any combination of 16 gauge (1.52 mm), 18 gauge (1.21 mm), or 20 gauge (0.91 mm)
Furnished With:	Birdscreen: ½" (12.7mm) intercrimp aluminum mesh, 0.063" (1.60 mm) diameter wire removeable aluminum bird screen in an aluminum frame
Additional Options (at additional cost):	Insect screen (in lieu of bird screen), Continuous clip angles for attachment, Sheet blank off, Insulated blank off, Sill pans, Flange frames, Integrated glazing frames



Test Summary:
For a 4 Foot by 4 Foot Unit.

Tested with mill finish and no screen

- Free area = 6.80 ft² (0.676 m²)
- Percent free area = 42.5%
- Free area velocity at the point of beginning water penetration (@ 0.01 oz. / ft² of free area based on a 15 minute interval test) = 733 FPM (3.72 m/s)
- Intake pressure drop at 0.01 oz. / ft² free area velocity = 0.08 in. H₂O (19.8 Pa)

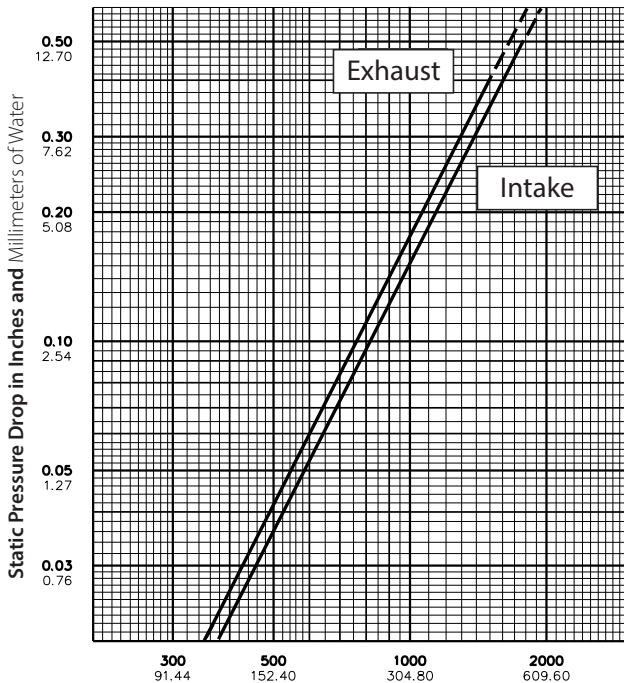


Discharge Coefficient
 Intake Cd = 0.30 (Class 2)

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Water Penetration Statement

AMCA defines the point of beginning water penetration as the free area velocity at which the AMCA water test has yielded 0.01 or less ounces of water per square foot of louver free area during a 15-minute test period.



Air Velocity in Feet and Meters per Minute Through Free Area

Data corrected to standard air density.
 48" x 48" (121.92cm x 121.92cm) louver tested to figure 5.5.

Free Area Table (Free area in sq. feet and sq. meters)

For additional sizes, please visit:

<https://www.c-sgroup.com/architectural-louvers/louvers-airflow-tool>

Width in Inches and Meters

	12	18	24	30	36	42	48	54	60
18	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
24	0.46	0.70	0.97	1.23	1.49	1.76	2.02	2.28	2.55
30	0.61	0.97	1.33	1.82	2.32	2.82	3.32	3.82	4.31
36	0.76	1.13	1.55	1.97	2.40	2.82	3.24	3.67	4.09
42	0.91	1.35	1.82	2.28	2.76	3.24	3.72	4.20	4.68
48	1.07	1.55	2.07	2.58	3.09	3.60	4.11	4.62	5.13
54	1.22	1.74	2.31	2.88	3.45	4.02	4.59	5.16	5.73
60	1.37	1.92	2.53	3.14	3.75	4.36	4.97	5.58	6.19
66	1.52	2.09	2.74	3.39	4.04	4.69	5.34	5.99	6.64
72	1.68	2.28	2.97	3.66	4.35	5.04	5.73	6.42	7.11
78	1.83	2.49	3.22	3.95	4.68	5.41	6.14	6.87	7.60
84	1.98	2.70	3.47	4.24	5.01	5.78	6.55	7.32	8.09
90	2.13	2.93	3.74	4.55	5.36	6.17	6.98	7.79	8.60
96	2.29	3.12	3.97	4.81	5.64	6.47	7.30	8.13	8.96
102	2.44	3.29	4.18	5.06	5.91	6.76	7.61	8.46	9.31
108	2.59	3.45	4.38	5.32	6.19	7.06	7.93	8.80	9.67
114	2.74	3.62	4.59	5.59	6.48	7.37	8.26	9.15	10.04
120	2.90	3.80	4.81	5.82	6.73	7.64	8.55	9.46	10.37
126	3.05	4.00	5.04	6.06	7.08	8.10	9.12	10.14	11.16
132	3.20	4.18	5.25	6.28	7.31	8.34	9.37	10.40	11.43
138	3.35	4.37	5.45	6.49	7.53	8.57	9.61	10.64	11.68
144	3.51	4.56	5.65	6.70	7.75	8.80	9.85	10.90	11.95
150	3.66	4.75	5.86	6.92	7.98	9.04	10.10	11.16	12.22
156	3.81	4.95	6.07	7.14	8.21	9.28	10.35	11.42	12.49
162	3.96	5.15	6.28	7.36	8.44	9.52	10.60	11.68	12.76
168	4.11	5.36	6.50	7.59	8.68	9.77	10.86	11.95	13.04
174	4.27	5.57	6.73	7.83	8.93	10.03	11.13	12.23	13.33
180	4.42	5.78	6.96	8.08	9.19	10.30	11.41	12.52	13.63
186	4.58	6.00	7.20	8.33	9.45	10.52	11.64	12.76	13.88
192	4.74	6.22	7.45	8.59	9.72	10.84	11.97	13.10	14.23
198	4.90	6.45	7.71	8.86	10.00	11.17	12.31	13.46	14.59
204	5.06	6.68	7.98	9.14	10.29	11.47	12.62	13.82	14.96
210	5.22	6.92	8.26	9.43	10.59	11.78	12.94	14.19	15.33
216	5.38	7.16	8.55	9.73	10.90	12.10	13.27	14.53	15.70
222	5.54	7.41	8.85	10.04	11.22	12.43	13.61	14.88	16.07
228	5.70	7.66	9.16	10.36	11.55	12.77	13.96	15.24	16.45
234	5.86	7.91	9.48	10.69	11.89	13.12	14.32	15.61	16.83
240	6.02	8.17	9.81	11.03	12.24	13.49	14.69	16.00	17.22
246	6.18	8.43	10.15	11.38	12.57	13.87	15.07	16.39	17.61
252	6.34	8.69	10.50	11.74	12.91	14.26	15.47	16.80	18.01
258	6.50	8.96	10.86	12.11	13.26	14.67	15.88	17.22	18.42
264	6.66	9.23	11.23	12.52	13.62	15.09	16.30	17.65	18.84
270	6.82	9.51	11.61	12.94	14.00	15.52	16.73	18.09	19.27
276	6.98	9.79	12.00	13.37	14.33	15.96	17.17	18.54	19.71
282	7.14	10.07	12.38	13.81	14.67	16.41	17.62	19.00	20.16
288	7.30	10.36	12.77	14.26	15.02	16.87	18.09	19.47	20.62
294	7.46	10.65	13.17	14.72	15.38	17.34	18.57	20.00	21.09
300	7.62	10.95	13.58	15.19	15.75	17.81	19.06	20.58	21.57
306	7.78	11.25	14.00	15.67	16.13	18.29	19.57	21.07	22.06
312	7.94	11.56	14.43	16.16	16.52	18.78	20.09	21.59	22.56
318	8.10	11.87	14.87	16.66	16.92	19.28	20.62	22.12	23.07
324	8.26	12.18	15.30	17.17	17.32	19.79	21.16	22.66	23.59
330	8.42	12.50	15.74	17.69	17.73	20.31	21.71	23.22	24.12
336	8.58	12.82	16.19	18.22	18.15	20.84	22.27	23.78	24.66
342	8.74	13.15	16.65	18.76	18.58	21.38	22.84	24.35	25.21
348	8.90	13.48	17.12	19.31	19.02	21.91	23.42	24.93	25.77
354	9.06	13.82	17.59	19.87	19.47	22.45	24.01	25.52	26.34
360	9.22	14.16	18.07	20.44	19.93	23.00	24.61	26.13	26.92
366	9.38	14.51	18.56	21.02	20.40	23.56	25.22	26.75	27.51
372	9.54	14.86	19.06	21.61	20.88	24.13	25.84	27.38	28.11
378	9.70	15.21	19.57	22.21	21.37	24.71	26.47	28.06	28.72
384	9.86	15.57	20.09	22.82	21.87	25.30	27.11	28.76	29.34
390	10.02	15.93	20.62	23.44	22.38	25.90	27.76	29.47	29.97
396	10.18	16.30	21.16	24.07	22.90	26.51	28.42	30.20	30.61
402	10.34	16.67	21.71	24.71	23.43	27.13	29.09	30.94	31.26
408	10.50	17.05	22.27	25.36	23.97	27.76	29.77	31.70	31.92
414	10.66	17.43	22.84	26.02	24.52	28.41	30.46	32.47	32.59
420	10.82	17.82	23.42	26.69	25.09	29.07	31.16	33.25	33.27
426	10.98	18.21	24.01	27.37	25.67	29.74	31.87	34.04	33.96
432	11.14	18.61	24.61	28.06	26.26	30.42	32.59	34.84	34.66
438	11.30	19.01	25.22	28.76	26.86	31.11	33.31	35.65	35.37
444	11.46	19.42	25.84	29.47	27.47	31.81	34.04	36.47	36.09
450	11.62	19.83	26.47	30.19	28.09	32.52	34.78	37.30	36.82
456	11.78	20.25	27.11	30.92	28.72	33.24	35.52	38.14	37.56
462	11.94	20.67	27.75	31.66	29.36	33.97	36.27	38.99	38.31
468	12.10	21.10	28.40	32.41	30.01	34.71	37.02	39.85	39.07
474	12.26	21.53	29.16	33.17	30.67	35.46	37.78	40.72	39.84
480	12.42	21.97	29.93	33.94	31.34	36.22	38.55	41.60	40.62
486	12.58	22.41	30.71	34.72	32.02	37.00	39.35	42.49	41.41
492	12.74	22.86	31.50	35.51	32.71	37.79	40.16	43.39	42.21
498	12.90	23.31	32.30	36.31	33.41	38.59	40.98	44.30	43.02
504	13.06	23.77	33.11	37.12	34.12	39.40	41.81	45.22	43.84
510	13.22	24.23	33.93	37.94	34.84	40.22	42.65	46.15	44.67
516	13.38	24.70	34.76	38.77	35.57	41.05	43.50	47.09	45.51
522	13.54	25.17	35.61	39.61	36.31	41.89	44.36	48.04	46.36
528	13.70	25.65	36.47	40.46	37.06	42.74	45.23	49.00	47.22
534	13.86	26.13	37.34	41.32	37.82	43.60	46.11	49.97	48.09
540	14.02	26.62	38.22	42.19	38.59	44.48	47.00	50.95	48.97
546	14.18	27.11	39.11	43.07	39.37	45.37	47.90	51.94	49.86
552	14.34	27.61	40.01	43.96	40.16	46.27	48.81	52.94	50.76
558	14.50	28.11	40.92	44.86	40.96	47.18	49.73	53.95	51.67
564	14.66	28.62	41.84	45.77	41.77	48.10	50.66	54.97	52.59
570	14.82	29.13	42.77	46.69	42.59	49.03	51.60	56.00	53.52
576	14.98	29.65	43.71	47.62	43.42	49.97	52.55	57.04	54.46
582	15.14	30.17	44.66	48.56	44.26	50.92	53.51	58.09	55.41
588	15.30	30.70	45.62	49.51	45.11	51.88	54.48	59.15	56.37
594	15.46	31.23	46.59	50.47	45.97	52.85	55.46	60.22	57.34
600	15.62	31.77	47.57	51.44	46.84	53.83	56.45	61.30	58.32

Upper Numerals English Units/Lower Numerals Metric Units