

WLE-502 Wind-Driven Rain Louver

Application

FLOWTECH's WLE-502 Wind-Driven Rain Louver is specially designed for high ability to water-penetration.

The WLE-502 is an **AMCA CERTIFIED LOUVER**, it can effectively block water from penetrating through spaces between blades due to the good design of drainable blade shape, therefore secure the indoor possessions.

Standard Construction

Frame Extruded 6063-T5 aluminum of 2.0 mm thickness

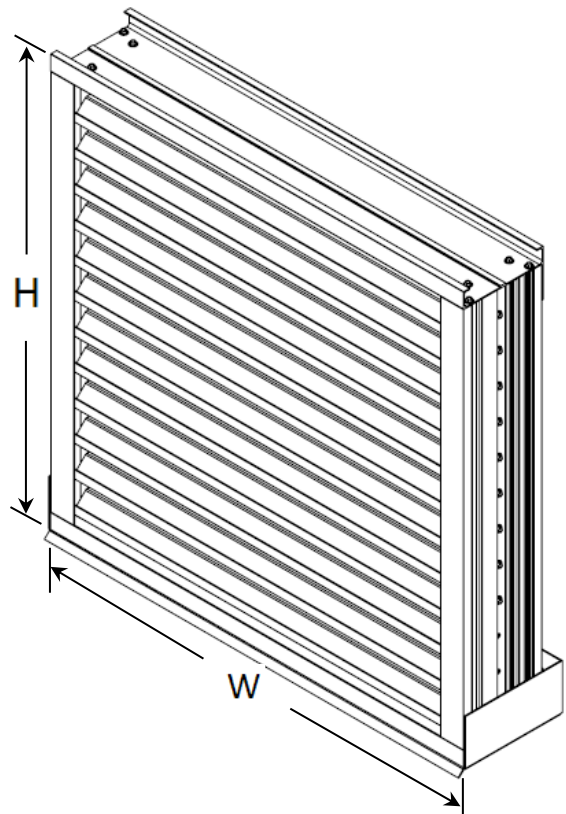
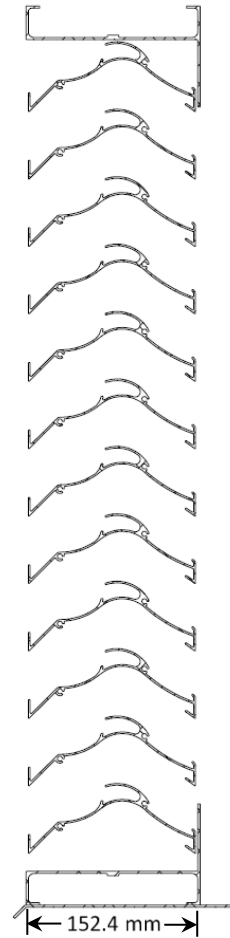
Blade Extruded 6063-T5 of 1.5 mm thickness, positioned on approximately 50 mm blade spacing

Minimum Size 12 in.(305 mm) W x 12 in.(305 mm) H

Maximum Size 180 in.(4572 mm) W or 180 in.(4572 mm) H
(limited to 100 ft. sq.)

Options

- A variety of bird and insect screens
- Filter rack
- Flanged Frame
- A variety of surface finish
- Sill pan



Wind-Driven Rain Performance

76 mm/hr Rainfall & 13 m/s Wind Velocity					203 mm/hr Rainfall & 22 m/s Wind Velocity				
Core Velocity		Volume Air Flow Rate	Water Penetration		Core Velocity		Volume Air Flow Rate	Water Penetration	
fpm	m/s	m ³ /s	Class	Effective	fpm	m/s	m ³ /s	Class	Effective
0	0	0	A	100	0	0	0	A	100
98	0.5	0.5	A	100	98	0.5	0.5	A	100
197	1.0	1.0	A	100	197	1.0	1.0	A	100
295	1.5	1.5	A	100	295	1.5	1.5	A	100
394	2.0	2.0	A	100	394	2.0	2.0	A	100
492	2.5	2.5	A	99.9	492	2.5	2.5	A	99.8
591	3.0	3.0	A	99.8	591	3.0	3.0	A	99.6
689	3.5	3.5	A	99.7	689	3.5	3.5	A	99.2
787	4.0	4.0	B	98.5	787	4.0	4.0	B	96.9
886	4.5	4.5	B	96.7	886	4.5	4.5	C	93.1
984	5.0	5.0	C	94.0	984	5.0	5.0	C	88.0

*WLE-502 Discharge Loss Coefficient Class (Intake) = 3

WLE-502 Discharge Loss Coefficient Class (Exhaust) = 2

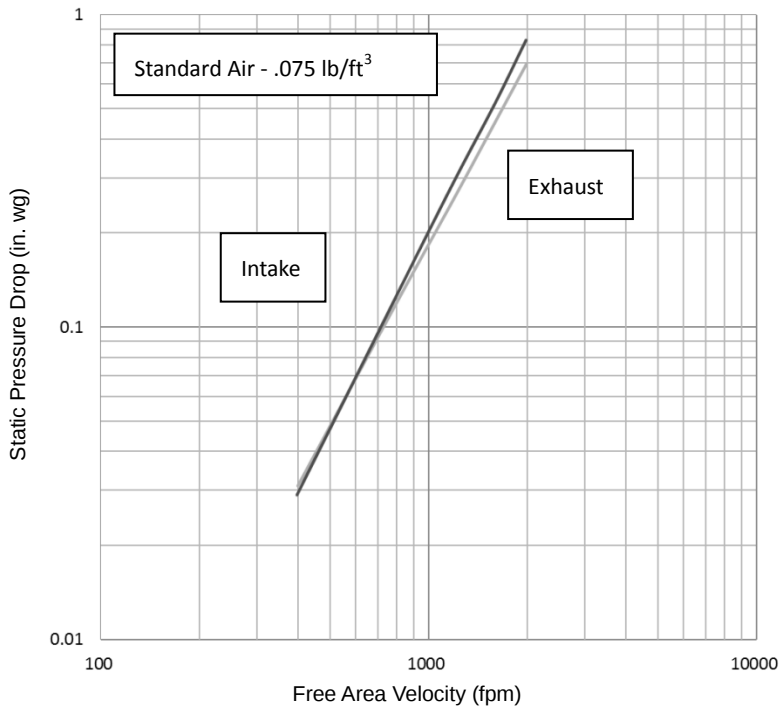
Discharge Loss Coefficient Classifications	
Class	Discharge Loss Coefficient
1	0.4 and Above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and Below

Wind-driven Rain Penetration Classifications	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.80



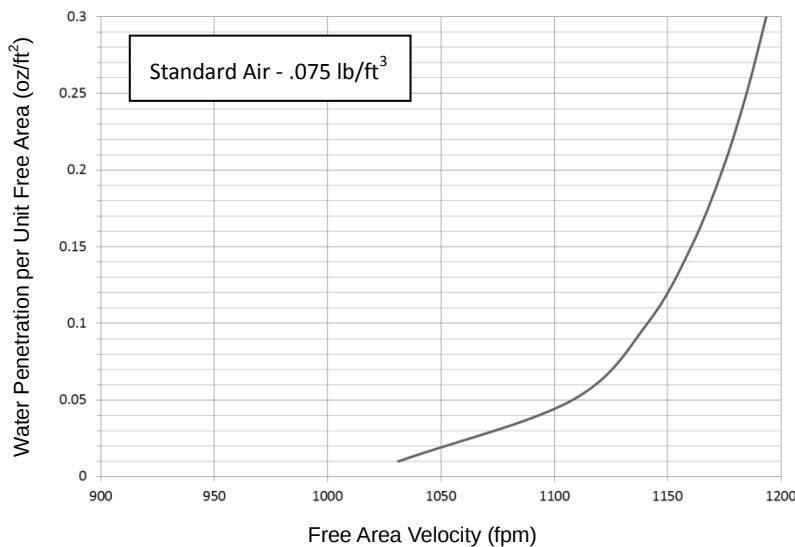
FLOWTECH Co. Ltd. certifies that the WLE-502 shown hereon is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Water Penetration, Wind-Driven Rain, and Air Performance ratings.

Air Performance



1. Tested in accordance with ANSI/AMCA 500-L, Figure 5.5
2. Test sample size is 48 in. x 48 in.
3. Data are based on intake and exhaust performance.

Water Penetration



1. Tested in accordance with ANSI/AMCA 500-L, Figure 5.6
2. Test sample size is 48 in. x 48 in.
3. The beginning point of water penetration is 1030.8 fpm.
4. Test Duration 15 min.



FLOWTECH Co. Ltd. certifies that the WLE-601 shown hereon is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Water Penetration, Wind-Driven Rain, and Air Performance ratings.

Free Area Chart (sq. m.)

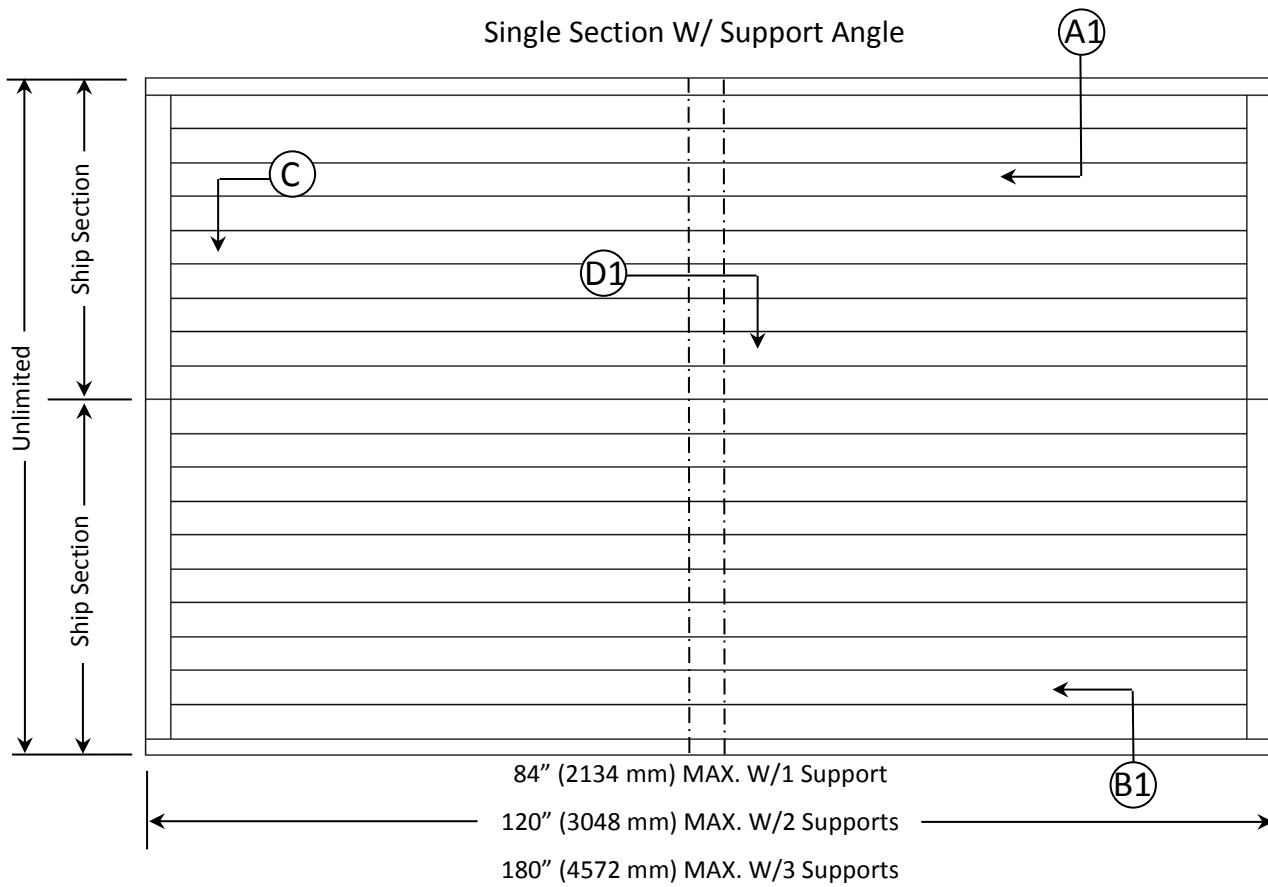
Height (m)	Width (m)												
	0.610	0.762	0.914	1.067	1.219	1.524	1.829	2.134	2.438	2.743	3.048	3.810	4.572
0.610	0.136	0.176	0.216	0.256	0.296	0.376	0.456	0.536	0.616	0.695	0.775	0.975	1.175
0.762	0.182	0.235	0.288	0.342	0.395	0.501	0.608	0.715	0.821	0.928	1.034	1.301	1.567
0.914	0.227	0.294	0.361	0.427	0.494	0.627	0.760	0.894	1.027	1.160	1.294	1.627	1.960
1.067	0.273	0.353	0.433	0.513	0.593	0.753	0.913	1.073	1.233	1.393	1.553	1.953	2.353
1.219	0.318	0.412	0.505	0.598	0.692	0.878	1.065	1.252	1.438	1.625	1.812	2.279	2.745
1.524	0.424	0.549	0.673	0.798	0.922	1.171	1.420	1.669	1.918	2.167	2.416	3.039	3.661
1.829	0.515	0.667	0.818	0.969	1.120	1.423	1.725	2.027	2.330	2.632	2.935	3.691	4.447
2.134	0.607	0.784	0.962	1.140	1.318	1.674	2.030	2.385	2.741	3.097	3.453	4.342	5.232
2.438	0.698	0.902	1.107	1.311	1.516	1.925	2.334	2.744	3.153	3.562	3.971	4.994	6.017
2.743	0.789	1.020	1.251	1.482	1.714	2.176	2.639	3.102	3.564	4.027	4.489	5.646	6.802
3.048	0.880	1.138	1.396	1.654	1.912	2.428	2.944	3.460	3.976	4.492	5.008	6.298	7.588
3.810	1.107	1.432	1.757	2.081	2.406	3.056	3.705	4.355	5.004	5.654	6.303	7.927	9.551
4.572	1.350	1.746	2.142	2.538	2.934	3.726	4.518	5.309	6.101	6.893	7.685	9.665	11.645

Core Area Chart (sq. m.)

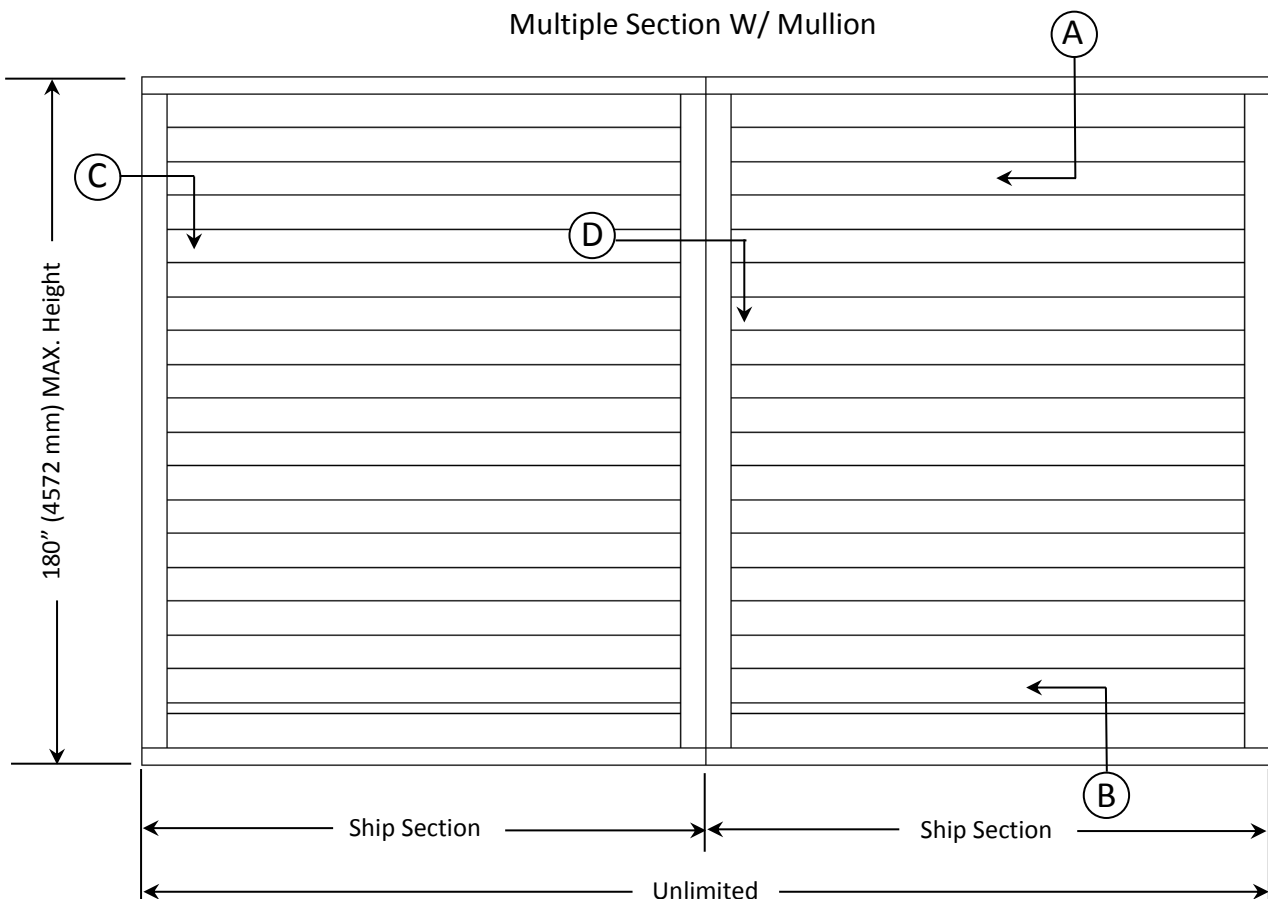
Height (m)	Width (m)												
	0.610	0.762	0.914	1.067	1.219	1.524	1.829	2.134	2.438	2.743	3.048	3.810	4.572
0.610	0.286	0.369	0.453	0.537	0.621	0.788	0.956	1.123	1.291	1.458	1.626	2.045	2.463
0.762	0.365	0.472	0.579	0.686	0.793	1.007	1.221	1.435	1.649	1.863	2.077	2.611	3.146
0.914	0.444	0.574	0.704	0.835	0.965	1.225	1.486	1.746	2.006	2.267	2.527	3.178	3.829
1.067	0.523	0.677	0.830	0.983	1.137	1.444	1.751	2.057	2.364	2.671	2.978	3.745	4.512
1.219	0.602	0.779	0.956	1.132	1.309	1.662	2.016	2.369	2.722	3.076	3.429	4.312	5.196
1.524	0.761	0.984	1.207	1.430	1.653	2.099	2.546	2.992	3.438	3.884	4.331	5.446	6.562
1.829	0.919	1.189	1.458	1.728	1.997	2.536	3.076	3.615	4.154	4.693	5.232	6.580	7.928
2.134	1.077	1.393	1.709	2.025	2.342	2.974	3.606	4.238	4.870	5.502	6.134	7.714	9.294
2.438	1.236	1.598	1.961	2.323	2.686	3.411	4.136	4.860	5.585	6.310	7.035	8.848	10.660
2.743	1.394	1.803	2.212	2.621	3.030	3.848	4.666	5.483	6.301	7.119	7.937	9.982	12.026
3.048	1.553	2.008	2.463	2.919	3.374	4.285	5.196	6.106	7.017	7.928	8.839	11.115	13.392
3.810	1.949	2.520	3.092	3.663	4.235	5.378	6.521	7.664	8.807	9.950	11.093	13.950	16.808
4.572	2.344	3.032	3.720	4.407	5.095	6.470	7.845	9.221	10.596	11.971	13.346	16.785	20.223

Maximum Size and Installation Information

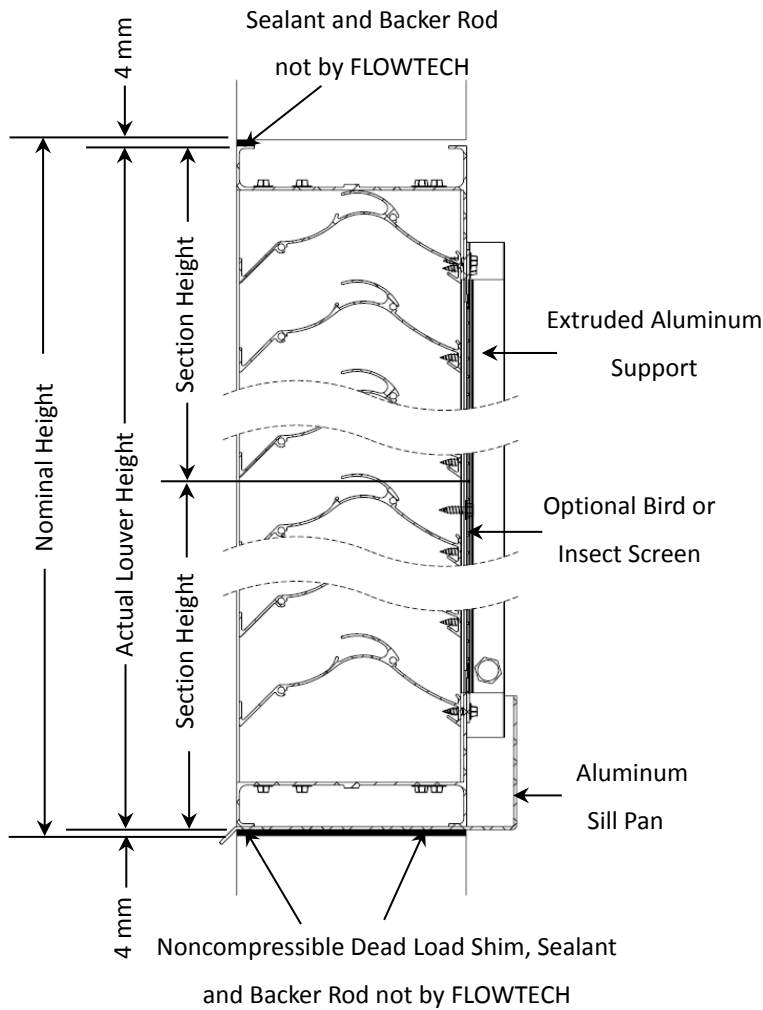
Single Section W/ Support Angle



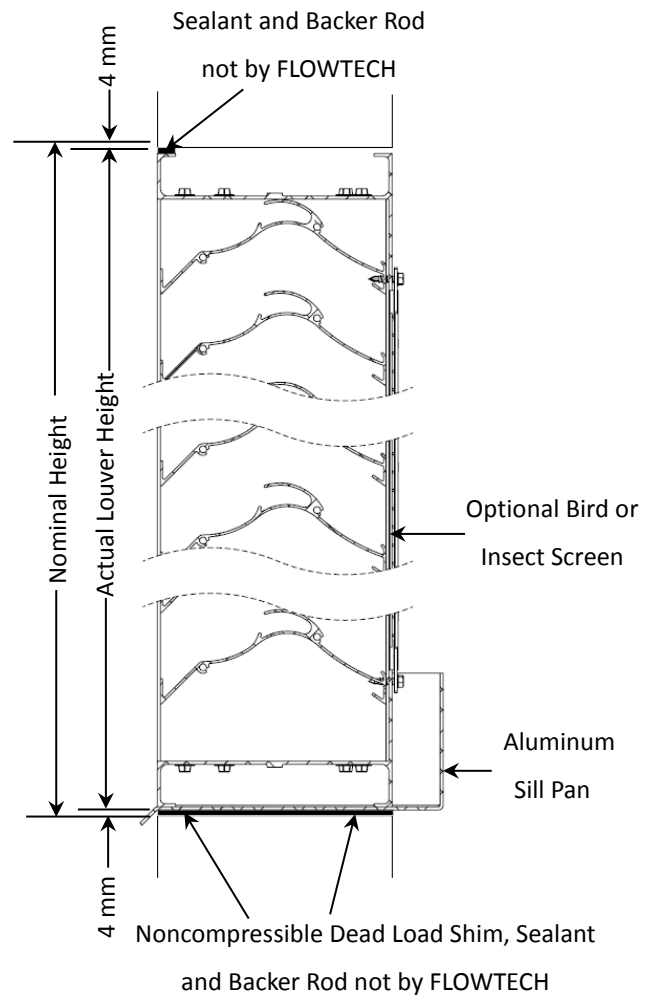
Multiple Section W/ Mullion



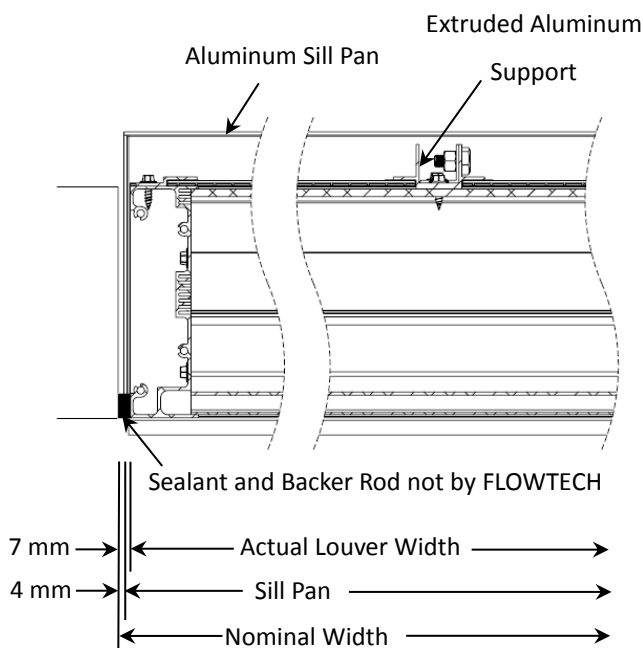
A1 Head Detail



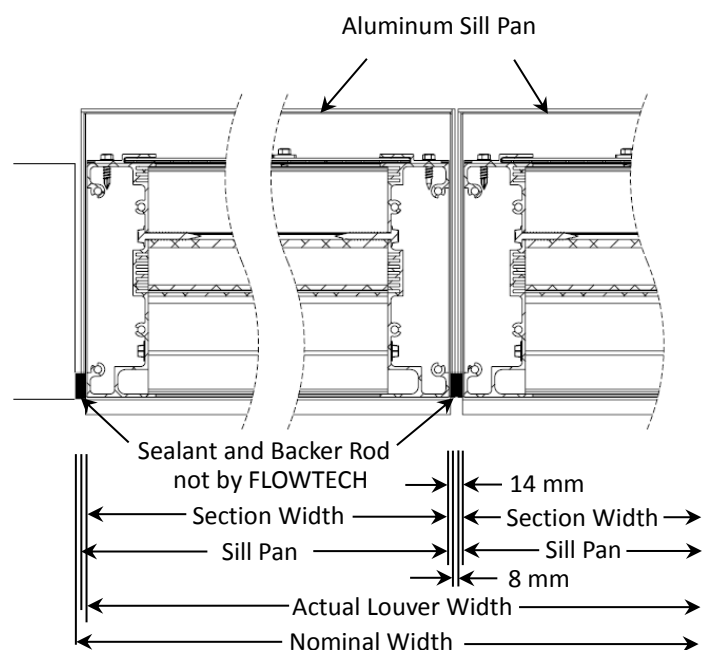
A Head Detail



B1 Sill Detail



B Sill Detail



C Jamb Detail

D1 Support Detail

C Jamb Detail

D Mullion Detail