



**USAIRE**

MODEL **1510D**

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Steel Stamped Face Floor Register

CFM	Outlet Size	2x10	2x12	2x14	4x8	4x10	4x12	4x14	6x10	6x12	6x14
25	Face Velocity	160									
	Ps	.007									
	Spread / Throw	3 2									
50	Face Velocity	320	267	229	225	180	150				
	Ps	.029	.020	.015	.015	.009	.006				
	Spread / Throw	6 4	5 4	5 4	5 4	4 3	4 3				
75	Face Velocity	480	400	343	338	270	225	193	180	150	
	Ps	.066	.046	.034	.034	.021	.014	.011	.009	.006	
	Spread / Throw	7 6	7 5	7 5	7 5	6 5	6 4	5 4	5 4	5 4	
100	Face Velocity	640	533	457	450	360	300	257	240	200	171
	Ps	.117	.081	.060	.060	.037	.026	.019	.011	.011	.008
	Spread / Throw	9 7	8 6	8 6	8 6	7 6	7 5	7 5	6 5	6 5	6 4
125	Face Velocity	800	667	571	563	450	375	321	300	250	214
	Ps	.183	.127	.093	.093	.058	.040	.030	.026	.018	.013
	Spread / Throw	11 6	10 7	9 7	9 7	9 6	8 6	8 6	8 6	7 5	7 5
150	Face Velocity		800	686	625	540	450	386	360	300	257
	Ps		.183	.135	.135	.083	.058	.043	.037	.026	.019
	Spread / Throw		11 6	11 6	11 8	10 7	9 7	9 7	9 6	8 6	8 6
175	Face Velocity			800	788	630	525	450	420	350	300
	Ps			.183	.183	.114	.079	.058	.050	.035	.026
	Spread / Throw			12 9	12 9	11 8	10 8	10 7	9 7	9 7	8 6
200	Face Velocity				900	720	600	614	480	400	343
	Ps				.239	.188	.130	.096	.083	.058	.043
	Spread / Throw				14 11	13 10	12 9	11 7	11 8	11 8	10 6
225	Face Velocity					810	675	579	540	450	396
	Ps					.232	.161	.118	.103	.072	.053
	Spread / Throw					14 10	13 10	12 9	12 9	11 8	11 8
250	Face Velocity					900	750	643	600	500	429
	Ps					.272	.195	.143	.125	.067	.064
	Spread / Throw					16 12	14 10	13 10	13 10	13 9	11 9
275	Face Velocity						825	707	660	550	471
	Ps						.232	.170	.148	.103	.076
	Spread / Throw						15 11	14 10	14 10	13 10	12 9
300	Face Velocity						900	771	720	600	514
	Ps						.272	.200	.174	.121	.089
	Spread / Throw						16 12	15 11	14 11	13 11	13 10
325	Face Velocity							836	780	650	557
	Ps							.232	.202	.140	.103
	Spread / Throw							15 12	15 11	14 11	13 10
350	Face Velocity							900	840	700	600
	Ps							.267	.232	.161	.118
	Spread / Throw							16 13	16 12	15 12	14 10

**Notes:**

Neck Velocity - The neck velocity is in feet per minute

Face Velocity - The discharge velocity is in feet per minute

Ps - Static pressure readings are in inches water gauge.

Throw - Throw indicated are based on total number of feet of projected air when a terminal velocity of 50 feet per minute is reached. Values reflect side louver throw and center louver throw respectively. Throw should extend at least 75% of the distance from the face of the grille to the wall opposite the outlet. Throws are based on a 9 foot ceiling height.

Spread - Horizontal spread is measured in feet per minute

For sizes not shown, refer to online tools **GRD Selection Program** performance calculator on Home Page