Engineering Data for Supply Grille and Register

AIR GUIDE

DROP CHART TO BE USED WITH PERFORMANCE DATA ON PAGES 3 and 4

Horizontal Throw in Feet – 0° Deflection

V_J in Ft. per Min.	10	15	20	25	30	40	50
500	3.8	6.0	8.2	9.9	11.5	17.0	20.2
750	2.7	4.4	6.6	7.7	9.3	12.6	16.5
1000	2.2	3.8	5.5	6.6	7.7	11.0	13.7
1250	2.2	3.3	4.9	6.0	7.1	9.9	13.0
1500	1.6	3.3	4.4	5.5	6.6	9.3	11.6
1750	1.1	2.7	3.8	4.9	6.0	8.8	11.0
2000	1.1	2.7	3.8	4.4	5.5	8.2	10.4

Drop in Feet

Total drop based on 0° F. differential between supply air and room air.

Above factors can be lessened considerably where upward deflection settings of 15° to 20° on horizontal bars can be employed. (See Table below)

Drop Reduction Factors for Upward Deflection Pattern

	Throw in Feet						
	10	15	20	25	30	40	50
Deduct from above for 15° to 20° upward deflection	2.65	3.58	4.64	6.63	7.74	9.96	12.61

Balancing Procedure for Sidewall Supply Outlets

Fig. 1

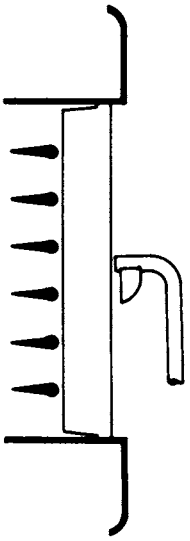
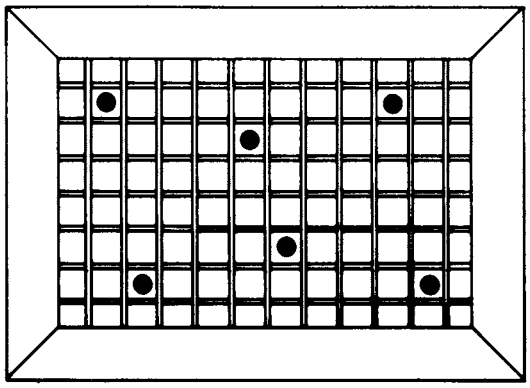


Fig. 2



With a 2220A Alnor Velometer jet positioned as shown in Fig. 1, take readings across face of outlet as indicated by dots in Fig. 2. Use 4 readings for small grilles; 6 for medium size and 8 for larger.

Make certain that grille pattern has been set for deflection required as A_K factors are given for 3 settings.

After determining average jet velocity, multiply by A_K factors to determine C.F.M. volume being delivered.

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