

FLOOR REGISTERS



Model Number	Size Ax B	Area (Ak)		CFM				
				100	120	140	160	180
RMF41003	4"X10" STEEL	0.20	Pt-Psc	0.04	0.044	0.051	0.085	0.099
			Spread	8.0	10.0	12.0	12.5	14.0
			Throw	5.5	8.50	9.5	12.0	13.0
			Face Vel.	500	600	700	800	900
RMF31003	3"X10" STEEL	0.14	Pt-Psc	0.06	0.069	0.102	0.201	
			Spread	7.5	8.5	11.5	14.0	
			Throw	7	8.0	11	13.5	
			Face Vel.	714.3	857.1	1000.0	1142.9	
RF41003	4"X10" PLASTIC	0.139	Pt-Psc	0.018	0.053	0.108	0.17	
			Spread	4.0	5.0	6.0	7.2	
			Throw	4.0	5.0	5.6	6.5	
			Face Vel.	719	863	1007	1151	
RF31003	3"X10" PLASTIC	0.175	Pt-Psc	0.05	0.135	0.248	0.37	
			Spread	4.2	4.9	5.4	6.3	
			Throw	4.0	4.6	5.2	6.0	
			Face Vel.	571	686	800	914	

Recommended face velocity of 800fpm for Residential
Terminal Velocity is 50fpm



RMF



RF

Terminology

Ak(sq ft.)Effective areaArea of the register/grille that is utilized by the air flowing through it.It is lower than the Free Area.

This is a calculated figure.It includes the friction created by the air passing through it.

Pt-Psc(Inches of Water) Pressure loss as measured.

Spread(Ft): The maximum distance measured parallel to the plane of the outlet between the extremities of the terminal velocity plane.

Throw(Ft): The distance from the center of the outlet that the air travels and reaches the designed Terminal Velocity(FPM).

Regardless of the velocity of the air exiting the outlet at this distance the air has slowed down(mixed).

Face Velocity(FPM) The average speed of the air as measured at the face of the outlet.The air is at its highest speed at the face.

The greatest **THROW** comes from the highest face velocity but will also create a higher background noise level.

Increasing the face velocity will increase the pressure losses also.