IMC Tbl 403.1.1
ClassRoom; age 9 +

$V_{bz} = R_p P_z + R_a A_z$

R_p	=	10					
P_z	=	35	per	1000 ft^2	=	19.3	people
R_a	=	0.12					
A_z	=	579.0 ft^2	-	5 % for furniture	=	550.05	ft^2

V_{bz} = 258.52 cfm fresh air per classroom

****

School corridors

$V_{bz} = R_p P_z + R_a A_z$

R_p	=	0					
P_z	=	0	per	1000 ft^2	=	0.0	people
R_a	=	0.06					
A_z	=	1330.0 ft^2	-	0 %	=	1,330.0	ft^2

V_{bz} = 79.80 cfm fresh in each corridors

****

Lunch Room

$V_{bz} = R_p P_z + R_a A_z$

R_p	=	5					
P_z	=	150	per	1000 ft^2	=	179.0	people
R_a	=	0.06					
A_z	=	1256.00 ft^2	-	5 %	=	1,193.20	ft^2

V_{bz} = 966.5 cfm fresh air per small classroom

****
****

Infiltration
Manual N Table 13b

Number of Students per day per wing =	96.3	
Number of Times Students open door per day =	4.0	times
Length of Stay =	3.0	hr
Traffic Rate =	64	/hr
Number of Employees =	5	
Number of Times Employees open door per day =	4.0	times
Length of Stay =	3	HR
Traffic Rate =	3	/hr
Total Traffic Rate =	68	/hr

cfm Infiltration per door based on traffic rate :	Winter	Summer
Double door no vestibule has an infiltration rate of	713	410
Total Door Infiltration in cfm	713	410

Therefore each corridor with 8 classrooms will get 412 cfm of fresh air during the day.

Manual N Table 13a	Winter	Summer
Low exhaust with poor construction & no pressurizatic	1	0.6
Classroom Infiltration in cfm	579.0	347.4
Lunchroom Infiltration in cfm	1256	753.6

Each classroom receives all required fresh air from poor construction.
Lunchroom receives all required fresh air from poor construction.