

Alaska Weatherization Assistance Program

Alaska Housing Finance Corporation

CLIMATE/BUILDING FACTORS FOR ESTIMATING NATURAL AIR LEAKAGE							
To determine the CFM @50 divide by number, select the city or the closest one to it. Use the chart to find the appropriate Climate/building number using the number of stories and wind shelter factor for that home.							
Ambler			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	19.5	16.4	14.4	13.1	12	11.2	10.6
Average	16.3	14.2	12.7	11.7	10.8	10.2	9.6
Unshielded	15.1	13.2	11.9	11	10.2	9.7	9.2
Anchorage			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	23	19.2	16.9	15.3	14	13.1	12.3
Average	19.7	17	15.2	13.9	12.9	12.1	11.4
Unshielded	18.4	16	14.4	13.2	12.3	11.5	10.9
Aniak			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21.5	18	15.7	14.2	13	12.1	11.4
Average	19.2	16.4	14.6	13.3	12.3	11.5	10.8
Unshielded	18.2	15.6	14	12.8	11.8	11.1	10.5
Bethel			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	18.5	15.8	14	12.8	11.8	11	10.4
Average	14.1	12.5	11.4	10.5	9.9	9.4	8.9
Unshielded	12.6	11.2	10.3	9.6	9.1	8.6	8.2
Dillingham			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21.5	18.1	16	14.5	13.4	12.5	11.7
Average	17.6	15.3	13.8	12.7	11.9	11.2	10.6
Unshielded	16.1	14.1	12.8	11.9	11.1	10.5	10

Eagle River			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	23.2	19.4	17.1	15.4	14.2	13.2	12.4
Average	19.9	17.1	15.3	14	13	12.2	11.5
Unshielded	18.5	16.1	14.5	13.3	12.4	11.6	11
Fairbanks			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21.6	18	15.8	14.2	13.1	12.1	11.4
Average	19.4	16.6	14.7	13.3	12.3	11.5	10.8
Unshielded	18.5	15.9	14.1	12.9	11.9	11.2	10.5
Fort Yukon			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	19.3	16.2	14.2	12.9	11.8	11	10.4
Average	16.5	14.2	12.7	11.6	10.8	10.1	9.6
Unshielded	15.4	13.4	12	11	10.3	9.7	9.2
Galena			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21.1	17.5	15.4	13.8	12.7	11.8	11.1
Average	19.2	16.3	14.4	13.1	12.1	11.3	10.6
Unshielded	18.4	15.7	13.9	12.7	11.7	11	10.4
Haines			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	23.7	20	17.7	16	14.8	13.8	13
Average	19.1	16.7	15.1	13.9	13	12.2	11.6
Unshielded	17.4	15.4	14	12.9	12.1	11.5	10.9
Healy			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	20.2	17.1	15.1	13.8	12.7	11.9	11.2
Average	16	14	12.7	11.7	10.9	10.3	9.8
Unshielded	14.5	12.8	11.7	10.8	10.2	9.6	9.2

Holy Cross			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21.7	18.1	15.8	14.3	13.1	12.2	11.5
Average	19.3	16.5	14.7	13.3	12.3	11.5	10.9
Unshielded	18.2	15.7	14	12.8	11.9	11.1	10.5
Homer			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	22.8	19.1	16.8	15.2	14	13.1	12.3
Average	19.3	16.7	15	13.7	12.7	12	11.3
Unshielded	17.9	15.6	14.1	13	12.1	11.4	10.8
Juneau, Airport			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	23.4	19.7	17.4	15.8	14.5	13.5	12.7
Average	19.1	16.6	15	13.8	12.9	12.1	11.5
Unshielded	17.4	15.3	13.9	12.9	12.1	11.4	10.8
Juneau, City of			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	24.3	20.5	18.1	16.5	15.2	14.2	13.3
Average	19.6	17.1	15.5	14.3	13.3	12.5	11.9
Unshielded	17.8	15.7	14.3	13.3	12.4	11.7	11.2
Ketchikan			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	23.3	19.9	17.7	16.2	15	14	13.3
Average	17.3	15.4	14.1	13.1	12.3	11.7	11.2
Unshielded	15.4	13.8	12.7	11.9	11.2	10.7	10.2
King Salmon			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	20.2	17.1	15.2	13.8	12.7	11.9	11.2
Average	15.8	13.9	12.6	11.7	10.9	10.3	9.8
Unshielded	14.3	12.7	11.6	10.8	10.1	9.6	9.2

Kodiak			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21.8	18.6	16.5	15	13.9	13	12.3
Average	16.6	14.7	13.4	12.4	11.7	11	10.5
Unshielded	14.8	13.3	12.2	11.3	10.7	10.2	9.7
Kotzebue			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	17.4	14.7	13.1	11.9	11	10.3	9.7
Average	13.4	11.8	10.8	10	9.3	8.8	8.4
Unshielded	12	10.7	9.8	9.1	8.6	8.2	7.8
McGrath			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21.4	17.8	15.6	14	12.9	12	11.2
Average	19.6	16.6	14.7	13.3	12.3	11.5	10.8
Unshielded	18.7	16	14.2	12.9	11.9	11.2	10.5
Nenana			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21.3	17.8	15.6	14.1	12.9	12	11.3
Average	19	16.2	14.4	13.1	12.1	11.3	10.7
Unshielded	18	15.5	13.8	12.6	11.7	11	10.3
Nome			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	19	16	14.2	12.8	11.9	11.1	10.4
Average	15.3	13.4	12.1	11.1	10.4	9.8	9.3
Unshielded	13.9	12.3	11.2	10.3	9.7	9.2	8.7
North Pole			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	20.9	17.4	15.2	13.7	12.6	11.7	11
Average	19.1	16.2	14.3	13	12	11.2	10.5
Unshielded	18.2	15.6	13.8	12.6	11.6	10.9	10.3

Palmer			Number of Stories					
Wind Shelter	1	1.5	2	2.5	3	3.5	4	
Shielded	21.6	18.2	16.1	14.6	13.4	12.5	11.8	
Average	17.5	15.3	13.8	12.7	11.8	11.2	10.6	
Unshielded	16	14.1	12.8	11.8	11.1	10.5	10	
Savoonga			Number of Stories					
Wind Shelter	1	1.5	2	2.5	3	3.5	4	
Shielded	15.5	13.3	11.9	11	10.2	9.6	9.1	
Average	10.9	9.8	9	8.5	8	7.6	7.3	
Unshielded	9.6	8.7	8	7.5	7.2	6.8	6.6	
Seward			Number of Stories					
Wind Shelter	1	1.5	2	2.5	3	3.5	4	
Shielded	25.2	20.9	18.3	16.5	15.1	14.1	13.2	
Average	23	19.5	17.3	15.7	14.4	13.5	12.7	
Unshielded	22	18.8	16.7	15.2	14	13.1	12.4	
Sitka			Number of Stories					
Wind Shelter	1	1.5	2	2.5	3	3.5	4	
Shielded	26	21.8	19.2	17.3	15.9	14.8	13.9	
Average	22.3	19.2	17.2	15.7	14.6	13.7	12.9	
Unshielded	20.7	18	16.2	14.9	13.9	13.1	12.4	
Tok			Number of Stories					
Wind Shelter	1	1.5	2	2.5	3	3.5	4	
Shielded	19.1	16	14.1	12.8	11.8	11	10.3	
Average	15.9	13.8	12.4	11.4	10.6	9.9	9.4	
Unshielded	14.7	12.9	11.6	10.7	10	9.4	8.9	
Unalakleet			Number of Stories					
Wind Shelter	1	1.5	2	2.5	3	3.5	4	
Shielded	18.3	15.5	13.8	12.5	11.6	10.9	10.2	
Average	14	12.4	11.3	10.4	9.8	9.3	8.8	
Unshielded	12.5	11.2	10.2	9.5	9	8.5	8.2	

Unalaska			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21	17.9	16	14.6	13.5	12.6	11.9
Average	15.6	13.8	12.7	11.8	11.1	10.5	10
Unshielded	13.8	12.4	11.4	10.7	10.1	9.6	9.2
Valdez			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	21.9	18.5	16.4	14.9	13.7	12.8	12.1
Average	17.3	15.2	13.8	12.7	11.9	11.2	10.7
Unshielded	15.6	13.9	12.7	11.7	11	10.4	10
Wasilla			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	23.1	19.4	17	15.4	14.1	13.2	12.4
Average	20	17.2	15.4	14	13	12.2	11.5
Unshielded	18.7	16.2	14.6	13.4	12.4	11.7	11.1
Yakutat			Number of Stories				
Wind Shelter	1	1.5	2	2.5	3	3.5	4
Shielded	23.5	19.7	17.4	15.7	14.4	13.5	12.6
Average	19.9	17.2	15.4	14.1	13.1	12.3	11.7
Unshielded	18.4	16.1	14.5	13.3	12.4	11.7	11.1