

**Alaska Weatherization Assistance Program**  
**Alaska Housing Finance Corporation**  
**Climate\Building Factors for Alaska**

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.							
<b>Ambler</b>			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
<b>Anchorage</b>			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
<b>Aniak</b>			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
<b>Bethel</b>			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
<b>McGrath</b>							
			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
<b>Nenana</b>							
			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
<b>Nome</b>							
			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
<b>North Pole</b>							
			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
<b>Palmer</b>							
			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
<b>Savoonga</b>							
			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
<b>Tok</b>							
			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
<b>Unalakleet</b>							
			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

