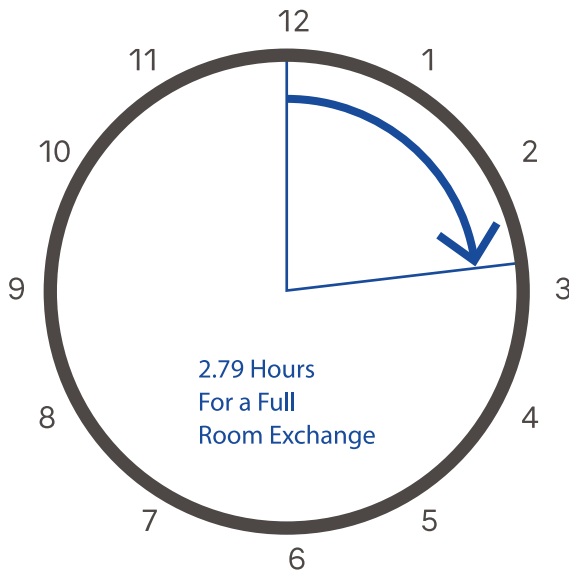


Infiltration is caused through the cracks in the assembly of a window, which leads to an Air Leakage rating (AL), and that is expressed as Cubic Feet per Minute, or CFM. The lower the Air Leakage rating, the less air that will leak through the cracks in the window, and it must be less than or equal to .30 in order to receive Energy Star Certification and an NFRC label through independent testing.

In 2017, there were approximately 215 towns out of 320 in Massachusetts that follow the Stretch Energy Code. According to Massachusetts Stretch Energy Code 9th Edition, residential dwellings should have not more than 3 air exchanges per hour at 55 pascals.

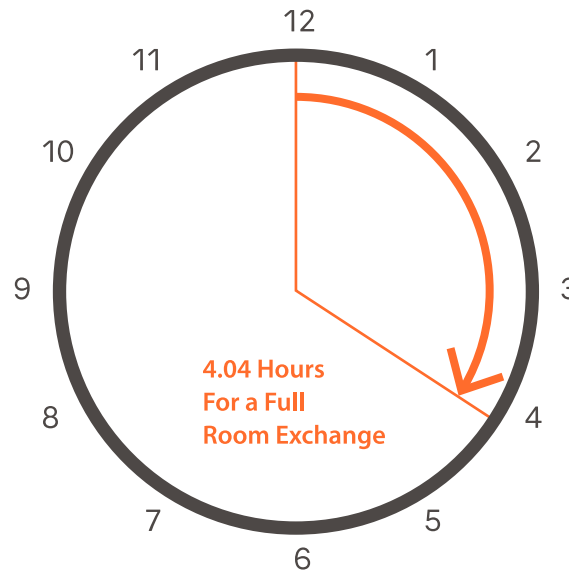


Energy Star Requirement

Quantity of 1 Window
44 X 75" Double Hung
≤.30 Test Size

44" X 75" = 3300"
3300 ÷ 144 = 22.916 FT³
22.916 X .30 = 6.875 Cubic Feet/Minute
1,152 ÷ 6.875 = 167.56
167.56 min. ÷ 60 min. = 2.79
2.79 hours for a room exchange

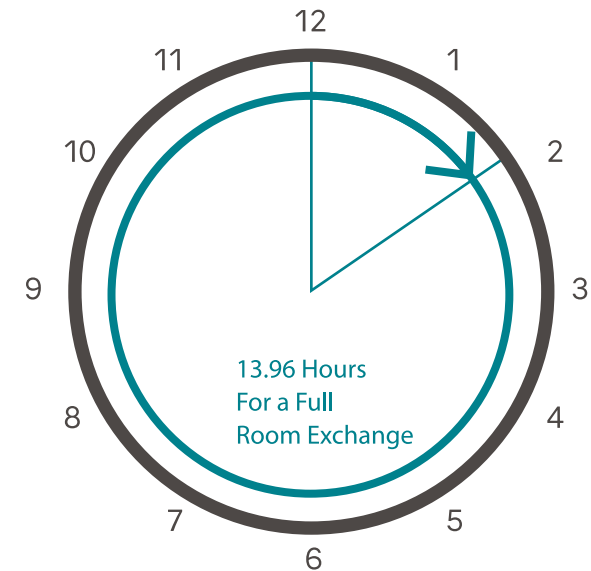
Air Leakage Rating = ≤ 0.3 Cubic Feet Per Minute / FT²



Leading Wood Manufacturer

Quantity of 1 Window
45 X 76" Double Hung
≤.20 Test Size

45" X 76" = 3420"
3420 ÷ 144 = 23.75 FT³
23.75 X .20 = 4.75 Cubic Feet/Minute
1,152 ÷ 4.75 = 242.52
242.52 ÷ 60 min. = 4.04
4.04 hours for a room exchange



Specialty Wholesale Supply

Quantity of 1 Window
44 x 75" Double Hung
≤.06 Test Size

44" X 75" = 3300"
3300 ÷ 144 = 22.916 FT³
22.916 X .06 = 1.375 Cubic Feet/Minute
1,152 ÷ 1.375 = 837.81
837.81 ÷ 60 = 13.96
13.96 hours for a room exchange