

**ENERGY STAR® Qualified Homes Equivalent Program Footnotes
For Use in the State of Minnesota**

1. All decorative glass and skylight window area counts toward the total window area to abovegrade conditioned floor area (WFA) ratio. For homes with conditioned basements, the following equation must be used to determine the allowable window area: Allowable Window Area = $18\% \times \text{Total Conditioned Floor Area} \times \text{FA}$, where $\text{FA} = (\text{Above-grade thermal boundary gross wall area}) / (\text{Above-grade thermal boundary gross wall area} + 0.5 \times \text{belowgrade thermal boundary gross wall area})$. For example, for a one-story home with a conditioned basement, 1000 sq. ft. of conditioned space per floor, 8' floor to ceiling height, and 6' below grade basement depth, the following window area would be allowed: $18\% \times 2000 \text{ sq. ft.} \times [(8 \text{ ft.} + 2 \text{ ft.}) \times \text{house perimeter}] / [(8 \text{ ft.} + 2 \text{ ft.} + 0.5 \times 6 \text{ ft.}) \times \text{house perimeter}] = 277 \text{ sq. ft.}$
2. Up to 0.75% WFA may be used for decorative glass that does not meet ENERGY STAR requirements. For example, a home with total above-grade conditioned floor area of 2,000 sq. ft. may have up to 15 sq. ft. (0.75% of 2,000) of decorative glass.
3. Walls constructed of Insulated Concrete Forms (ICF) or Structurally Insulated Panels (SIP) with a nominal insulation level of at least R-20 may be used in place of the required R-24 wood-frame walls.
4. Central cooling equipment should have a SEER rating of 14 or greater and must be properly installed by a contractor who has been trained through the Minnesota Power HVAC rebate program. Visit www.mnpower.com for more information, or contractors can call 1-800-969-9322, ext. 167 to participate.
5. In homes with heat pumps that have programmable thermostats, the thermostat must have "Adaptive Recovery" technology to prevent the excessive use of electric back-up heating.
6. The Thermal Bypass Inspection Checklist must be completed for homes to earn the ENERGY STAR label. The Checklist requires visual inspection of framing areas where air barriers are commonly missed and inspection of insulation to ensure proper alignment with air barriers, thus serving as an extra check that the air and thermal barriers are continuous and complete.
7. Envelope leakage must be determined by a RESNET-certified rater using a RESNETapproved testing protocol.
8. To determine domestic hot water (DHW) EF requirements for additional tank sizes, use the following equations: Gas DHW EF $\geq 0.69 - (0.002 \times \text{Tank Gallon Capacity})$; Electric DHW EF $\geq 0.97 - (0.001 \times \text{Tank Gallon Capacity})$. In addition, any gas or electric instantaneous water heater may be used in place of a storage water heater.