

## Abridged Edition Check List

↓ A "yes" for all line items indicates MJ8<sub>AE</sub> is an appropriate calculation tool, otherwise use the full version of Manual J.

The structure is a single-family detached dwelling; the total window, glass door and skylight area does not, or shall not, exceed 15 percent of the associated floor area.
The glass is, or shall be, equitably distributed around all sides of the dwelling – the dwelling appears to have obvious and sufficient exposure diversity.
Heating and cooling is, or shall be, provided by a central, single-zone, constant-volume system. The dwelling has no, or shall have no, radiant heating system.
The comfort conditioning system is not, or shall not, be equipped with a ventilation heat exchanger, or a ventilating dehumidifier.
The indoor design condition shall be: Heating 70 °F; Cooling 75 db °F and 45%, 50% or 55% RH; unless superseded by code. The outdoor design conditions shall be equal to the values in Table 1A (exactly), unless superseded by code.
Windows and glass doors have, or shall have, clear 1-pane, 2-pane or 3-pane glass.
Skylights shall be flat and shall have clear 1-pane or 2-pane glass. Curbs shall default to uninsulated wood 2x4. Skylights shall not be equipped with a light shaft, or an internal shade.
For heating, the default U-values for fenestration assemblies shall be those listed in Table 2A. For cooling, the default U-values and SHGC values shall be those listed in Table 3A and 3C. The foreground reflectance shall default to 0.20.
All conventional windows and glass doors shall default to internal shade (medium-color blind with slats at 45 degrees); except purpose-built daylight windows and skylights, which shall have no internal shade.
Bug screen, French door and projection adjustments shall be made when such devices and construction are observed during a site inspection, or appear on the building plans.
Windows and glass doors are not, or shall not, be equipped with external sun screens. Overhang adjustments shall be evaluated and applied to all windows and glass doors.
Above grade, the dwelling has, or shall have, wood frame walls or empty-core block walls (no metal framing, no filled core block). The exterior finish shall default to brick veneer, stucco or siding. The interior finish shall default to gypsum board.
Below grade, the dwelling has, or shall have, empty-core block walls (with, or without, board insulation; with, or without, framing and blanket insulation). Framing shall be wood (not metal), when applicable.
The dwelling has, or shall have, a dark shingle roof over a vented attic (not encapsulated), a beam ceiling, or a roof-joist ceiling.
An attic or attic knee wall space is, or shall be, vented to FHA standards, no radiant barrier, no encapsulating foam.
Slab floors shall have no edge insulation, or 3 feet of vertical insulation that covers the edge. Basement floors shall default to no insulation below slab, no sensitivity to width.
Floors over a closed space shall default to no insulation on the walls of the closed space. Floors over a closed space shall be insensitive to the tightness of the closed space.
Table 5A shall be used to estimate infiltration loads, which shall be appropriate for the dwelling of consideration (three or four exposures, class 4 wind shielding, no blower door test, or component leakage estimate).
The sensible appliance load is 1,200 or 2,400 Btu/h; the number of occupants equals the number of bedrooms plus one.
The duct system (when applicable) is, or shall be, installed in one horizontal plane; entirely in a conditioned space, in an attic that has no radiant barrier, no encapsulating foam, or in a closed crawlspace or unconditioned basement.
Attic duct runs shall default to round, spider pattern; supplies in room centers, large return close to air handler, or return in closet door; or rectangular trunk and branch, supplies near inside walls, large return at floor of conditioned space.
Below-floor duct runs shall default to trunk-branch; perimeter supplies; large return close to air handler.
The duct system (if applicable) is, or shall be, sealed to the <i>Manual J</i> default (0.12 / 0.24) leakage scenario. Credit for a tighter system requires a leakage test. Leakier systems should be sealed. (Leakage greater than 0.35 / 0.70 is unacceptable.)
Ducts in an unconditioned space have, or shall have, R-2, R-4, R-6, or R-8 insulation.
There is no engineered ventilation; or 50 Cfm, or less, shall be provided by piping outdoor air to the return side of the duct system (pressurization effect on infiltration is ignored). No other type of ventilation system shall be installed in the dwelling.
A blower heat adjustment shall be made when manufacturer's performance data is not discounted for blower heat. The blower heat adjustment shall be 500 Watts.
<b>Note 1:</b> The abridged edition of Manual J (MJ8 <sub>AE</sub> ) shall not be used to estimate heating and cooling loads for dwellings unless such dwellings are totally compatible (100 percent yes) with this checklist and the descriptions and caveats provided by Appendix 2 and Appendix 3. Use the full version of <i>Manual J</i> for all other scenarios.
<b>Note 2:</b> A qualified practitioner may substitute a full version HTM for an abridged version HTM (see Section A1-6).