



REScheck Software Version 4.6.2 Inspection Checklist

Energy Code: **Wisconsin Uniform Dwelling Code 2009**
Location: **Ashland County**
Project Type: **New construction**
Conditioned Floor Area: **2022 ft²**
Glazing Area Percentage: **1%**
Climate Zone: **7**

Ceilings:

- Ceiling area of home forming top of insulation envelope: Flat Ceiling or Scissor Truss, R-49.0 cavity insulation
Comments: _____

Above-Grade Walls:

- Wall area of home forming sides of insulation envelope: Wood Frame, 16" o.c., R-21.0 cavity insulation
Comments: _____
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Windows:

- Window 1: Vinyl/Fiberglass Frame:Double Pane with Low-E, U-factor: 0.290, SHGC: 0.25,
Windows must be labeled and rated in accordance with NFRC or must use default values from COMM Table 22.36-1.
#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No
Comments: _____

Note: Up to 15 sq.ft. of glazed fenestration per dwelling is exempt from U-factor and SHGC requirements.
Note: Site-constructed windows must be sealed with gasketing or weatherstripping or be covered with a storm window.

Doors:

- Energy efficient door unit: Solid, U-factor: 0.200
Doors must be labeled and rated in accordance with NFRC or must use default values from COMM Table 22.36-2.
Comments: _____

Note: Site-constructed doors must be sealed with gasketing or weatherstripping or be covered with a storm door.

Floors:

- Subfloor of home forming bottom of insulation envelope: All-Wood Joist/Truss:Over Unconditioned Space, R-30.0 cavity insulation
Comments: _____
Floor insulation is installed in permanent contact with the underside of the subfloor decking.

Solar Heat Gain Coefficient:

- Solar Heat Gain Coefficient (SHGC) values are determined in accordance with the NFRC test procedure or taken from the default table.

Air Leakage:

- Joints, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed.
- Recessed lights are either 1) Type IC rated with enclosures sealed/gasketed against leaks to the ceiling, or 2) Type IC rated and ASTM E283 labeled, or 3) installed inside an air-tight assembly with a 0.5" clearance from combustible materials and a 3" clearance from insulation.

Sunrooms:

- Sunrooms that are thermally isolated from the building envelope have a maximum fenestration U-factor of 0.50 and the maximum skylight U-factor of 0.75. New windows and doors separating the sunroom from conditioned space meet the building thermal envelope requirements.
- The temperature in the conditioned space is controlled as a separate zone or separate heating equipment exists.

Vapor Retarder:

- Installed on the warm-in-winter side of all framed ceilings, walls, and floors (exceptions apply, see COMM 22.38).
- The vapor retarder covers the exposed insulation and the interior face of the framing.
- The installed vapor retarder is continuous with all joints consisting of sheet material overlapped 6 inches and taped or sealed. Rips, punctures and voids in the vapor retarder are patched with vapor retarder materials and taped or sealed.
- Concrete slabs have vapor retarder directly under the slab or base course of the slab with edges extending to the top of the slab.

Materials Identification and Installation:

- Materials and equipment are installed in accordance with the manufacturer's installation instructions.
- Insulation is installed in substantial contact with the surface being insulated and in a manner that achieves the rated R-value.
- Materials and equipment are identified so that compliance can be determined.
- Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided.
- Insulation R-values and glazing U-factors are clearly marked on the building plans or specifications.

Duct Insulation:

- Ducts in unconditioned spaces or outside the building are insulated to at least R-8.

Duct Construction:

- Sections of ducts in unconditioned spaces and the unconditioned side of plenums are sealed (COMM 22.43).
- Air handlers, filter boxes, and duct connections to flanges of air distribution system equipment or sheet metal fittings are sealed and mechanically fastened.
- All joints, seams, and connections are made substantially airtight with tapes, gasketing, mastics (adhesives) or other approved closure systems. Tapes and mastics are rated UL 181A or UL 181B.
- Building framing cavities are not used as supply ducts.
- Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.
- Additional requirements for tape sealing and metal duct crimping are included by an inspection for compliance with the International Mechanical Code.

Temperature Controls:

- Thermostats exist for each separate HVAC system. A manual or automatic means to partially restrict or shut off the heating and/or cooling input to each zone or floor is provided.

Pipe Insulation:

- All heating pipes in unheated spaces and all cooling pipes in uncooled spaces are insulated with a material providing a minimum thermal resistivity of R-4 (COMM 22.44).

Ventilation:

- Mechanical ventilation systems are "balanced". Passive intake air ducts providing makeup air for intermittent exhaust are sized to provide a minimum of 40% of the total air that would be exhausted with all the intermittent exhaust ventilation in the dwelling operating simultaneously (COMM 22.39).

Certificate:

- A permanent certificate is provided on or in the electrical distribution panel listing the predominant insulation R-values; window U-factors; type and efficiency of space-conditioning and water heating equipment.

NOTES TO FIELD: (Building Department Use Only)



Wisconsin Energy Efficiency Certificate

Insulation Rating	R-Value
Ceiling / Roof	49.00
Above-Grade Wall	21.00
Below-Grade Wall	0.00
Floor	30.00
Ductwork (unconditioned spaces):	_____

Glass & Door Rating	U-Factor	SHGC
Window	0.29	NA
Door	0.20	NA

Heating & Cooling Equipment	Efficiency
Heating System: _____	_____
Cooling System: _____	_____
Water Heater: _____	_____

Name: _____ Date: _____

Comments: