

Green Building Energy Sustainability Inc.

2012 IgCC Residential Green Building Dallas handout

Effective date 10/01/13

326.2.2.1 All New Construction and Additions

1. Meet prescriptive requirements of Section 326.2.2.1.3, or
2. Meet minimum requirements of **ICC 700**, or
3. Be LEED certifiable under Leeds for Homes standard (formal certification not required), or
4. Be Green Built Texas certifiable (formal certification not required), or
5. Meet an equivalent standard as determined by the Building Official

326.2.2.1.1 LEED certification

1. One (1) point under the water efficiency credit (Indoor Water Use) required

326.2.2.1.2 Green Built Texas certification

1. Provide IC3 certificate meeting minimum Dallas Energy Code Compliance
2. **HERS rating of 85 or less**

326.2.2.1.3 Prescriptive Requirements

326.2.2.1.3.1 Storm Water – 70% of non-roof areas has;

1. **Vegetative landscape and/or**
2. **Permeable paving with a 6-inch porous sub-base and/or**
3. **Water runoff on impermeable paving to permanent infiltration features such as vegetative swale, onsite rain garden, or rain cistern**

326.2.2.1.3.2.1 Water Efficiency – New Construction only

1. Drip emitters for all bedding areas on the landscape plan
2. Water Reduction Strategies (use all that are applicable);
 - a) The average flow rate for all lavatory faucets must be ≤ 2.0 GPM
 - b) The average flow rate for all showerheads must be ≤ 2.0 GPM
 - c) The average flow rate for all toilets must be;
 - i) ≤ 1.3 GPF
 - ii) Dual flush and meet ASME A112.12.14
 - iii) Meet the US EPA Water Sense specifications
 - d) Use Energy Star dishwashers that use 6.0 Gallon per Cycle
 - e) **Use Energy Star clothes washers with;**
 - i) **Modified Energy Factor (MEF) ≥ 2.0**
 - ii) **Water factor (WF) ≤ 5**

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326.2.2.1.3.2 Water Efficiency – Additions only

1. Water Reduction Strategies (must meet at least two strategies);
 - a) The average flow rate for all lavatory faucets must be ≤ 2.0 GPM
 - b) The average flow rate for all showerheads must be ≤ 2.0 GPM
 - c) The average flow rate for all toilets must be;
 - i) ≤ 1.3 GPF
 - ii) Dual flush and meet ASME A112.12.14
 - iii) Meet the US EPA Water Sense specifications

326.2.2.1.3.3 Energy Efficiency

1. HERS rating ≤ 75 or
2. Energy Report using;
 - a) Remrate software
 - b) IC3 software
 - c) Rescheck software

326.2.2.1.3.4 Heat Island Mitigation

1. Vegetative roof (requires Building Official approval) or
2. Energy Star qualified roof on the roof with slope $\geq 2:12$ or
3. Radiant Barrier on the roof deck or
4. Foam Encapsulation

326.2.2.1.3.5 Indoor Air Quality

1. HVAC Air handling equipment and ductwork inside a fire rated garage envelope
2. Minimize pollutants from the garage.
 - a) Conditioned spaces above the garage
 - i) All penetrations must be sealed
 - ii) All floor and ceiling joists must be sealed
 - iii) Painted walls and ceilings of conditioned spaces above the garage
 - b) Conditioned spaces next to garage
 - i) All penetrations must be sealed
 - ii) All doors must be weather-stripped
 - iii) All cracks at the base of the wall must be sealed
 - c) Use an Air Filter with a Minimum Reporting Value (MERV) ≥ 8
 - i) Air handlers able to maintain adequate airflow with MERV 8 filter
 - ii) Air filter housing must be airtight to prevent bypass or leakage