

## 2019 Denver Green Code Errata/Clarification Summary of proposed changes

### 1. Page: (21)

**Proposed Correction:** Diverted land-clearing debris and removed rock and soil shall not be sent to ~~sites where development activity is prohibited by Section 501.3.1.2 (5.3.1.2)~~ or to greenfields other than those being used for agricultural purposes or being developed as part of a building project.

**Explanation:** The text of DGC Section 501.3.8.1 references Section 501.3.1.2 which has been deleted in the DGC. The dead-end reference has been removed for improved clarity and usability.

### 2. Page: (30)

**Proposed Correction:**

~~701.4.1.1 (7.4.1.1) On-Site Renewable Energy Systems. Building projects shall comply with either the Standard Renewables Approach in Section 701.4.1.1.1 (7.4.1.1.1) or the Alternate Renewables Approach in Section 701.4.1.1.2 (7.4.1.1.2).~~

**701.4.1.1 (7.4.1.1) Standard Renewables Approach: Baseline On-Site Renewable Energy Systems.** *Building projects shall contain on-site renewable energy systems that provide .....*

**Explanation:** The text of DGC Section 701.4.1.1 references Section 701.4.1.1.2 which has been deleted in the DGC. The edit removes the dead-end reference and renumbers the sub-section to replace the removed section.

### 3. Page: (31)

**Proposed Correction:** SHGCC = the SHGC criteria ~~for each climate zone~~ from Section ~~701.4.2.1 (7.4.2.1)~~ 701.4.2 (7.4.2).

**Explanation:** The definition for SHGCC in Section 701.4.2.9 references Section 701.4.2.1 which has been deleted. This edit corrects the reference to the appropriate section. It also limits the reference to climate zones, which are not used in the DGC.

### 4. Page: (34)

**Proposed Correction:**

All the exceptions in the IECC, Section C403.5, shall apply except as modified by the following:

- a. ~~IECC, Section C403.5, Exception 5, shall be permitted to eliminate the economizer requirement, provided the requirements in the IECC, Table~~

~~C403.5(2), are applied to the efficiency requirements required by Section 701.4.1.1.2 (7.4.1.1.2).~~

- ~~b.~~ For water-cooled units with a capacity less than 54,000 Btu/h that are used in systems where heating and cooling loads are transferred within the building (i.e., water-source heat pump systems), the requirement for an air or water economizer can be eliminated if the condenser-water temperature controls are capable of being set to maintain full-load heat rejection capacity down to a 55°F condenser-water supply temperature, and the HVAC equipment is capable of operating with a 55°F condenser-water supply temperature.

**Explanation:** Table C403.5(2) does not include CZ 5, so this code section is non-functional. This creates a usability issue since it gives the impression that there is an alternate compliance path for economizer requirements based on efficiency when the code text does not actually provide one. The only way to fix this without changing the adopted code requirements is to eliminate the section with the faulty reference.

5. Page: (41)

**Proposed Correction:**

Requirements provided in Sections 801.3.1.1 (8.3.1.1) through ~~801.3.1.7 (8.3.1.7)~~ 801.3.1.6 (8.3.1.6) supersede such requirements in the International Mechanical Code.

**Explanation:** Sections 801.3.1.1 (8.3.1.1) has been deleted in the DGC. As it still exists as a reserved section, this correction is not strictly necessary, but may improve clarity and usability for some users.

6. Page: (42)

**Proposed Correction:**

801.3.1.6 (8.3.1.6) Humidity Control. The requirements in this section supersede the requirements in ASHRAE Standard 62.1, Section 5.9.1. Mechanical air conditioning and evaporative cooling systems shall be designed in accordance with Sections 801.3.1.4.1 (8.3.1.4.1) ~~and 801.3.1.4.2 (8.3.1.4.2)~~, as applicable.

**Explanation:** Section 801.3.1.4.2 (8.3.1.4.2) has been deleted in the DGC. This edit removes the dead-end reference to improve usability and clarity.

7. Page (53)

**Proposed Correction:**

901.5.1.2 (9.5.1.2) Procedure. The LCA shall be performed in accordance with the service lives, life-cycle stages, study boundaries, and comparison methodologies of ASTM E2921 with the following modifications:

- a. Each building alternative shall comply with Chapters 6, 7 and 8 (Sections 6, 7, and 8) of this code.

- b. ~~The service life of the buildings shall not be less than that determined using Table 1001.3.2.3 (10.3.2.3), except that the service life of long-life buildings shall be no less than 75 years. Reserved.~~

**Explanation:** Item b in Section 901.5.1.2 (9.5.1.2) references Table 1001.3.2.3 (10.3.2.3), which has been removed from the DGC. This edit removes the reference for greater clarity and replaces it with a “reserved” demarcation in order to maintain the item sequence.

8. Page: (56)

**Proposed Correction:**

~~**1001.3.1.1.2.1.1 (10.3.1.1.2.1.1) Interior Background Sound Levels.** The interior sound level shall be measured in accordance with ANSI S12.72 using a sound level meter in slow-response setting as defined in ANSI/ASA S1.4. The testing shall include not less than 10% of the rooms of each type specified in Table 801.3.3.2 (8.3.3.2) that has a prescribed maximum hourly average sound pressure level  $L_{eq}$ -dBA of 40 or less. The measured performance of the spaces shall not exceed the values specified in Table 801.3.3.2 (8.3.3.2) by greater than 5 dBA or 5 dBC. Reserved.~~

**Explanation:** The text of DGC Section 1001.3.1.1.2.1.1 references Table 801.3.3.2 in two locations. Table 801.3.3.2 has been deleted in the DGC, making this section non-functional. This edit removes the non-functional section to improve usability and clarity and replaces it with a “reserved” demarcation in order to retain section ordering.

9. Page: (56)

**Proposed Correction:**

~~**1001.3.1.1.2.1.2 (10.3.1.1.2.1.2) Interior Sound Transmission.** The testing of interior sound transmission shall be in accordance with ASTM E336 with respect to noise isolation class (NIC) and ASTM E1007 with respect to impact sound rating (ISR). Tested NIC values shall not be more than five less than the composite sound transmission class (cSTC) values, and the ISR values shall not exceed 5 less than the impact insulation class (IIC) values in Table 801.3.3.3 (8.3.3.3). Testing shall be performed on not less than 10% of the partitions between rooms of each type in Table 801.3.3.3 (8.3.3.3) that has a prescribed cSTC or IIC of 50 or higher.~~

**Explanation:** The text of DGC Section 1001.3.1.1.2.1.2 references Section 801.3.3.3 which has been deleted in the DGC. As a result, this section effectively only requires testing and does not set a standard that must be met with that testing. This edit removes the non-functional references to improve usability and clarity.

10. Page: (56)

**Proposed Correction:**

**1001.3.1.1.2.1.3 (10.3.1.1.2.1.3) Property Line Sound.** Testing shall be performed at the locations and times of day or night that are estimated to most likely result in failure and shall be performed with all equipment operating under normal 100% load operation. ~~If daytime test results comply with the nighttime requirements, nighttime testing is not required.~~ The testing shall be in accordance with ANSI/ASA S1.13. ~~The testing results shall comply with the property line noise levels in Table 801.3.3.5.2 (8.3.3.5.2).~~ At the discretion of the AHJ, noise that is not created on the source property need not be included in the reported test results.

**Explanation:** The text of DGC Section 1001.3.1.1.2.1.3 references Section 801.3.3.5.2 which has been deleted in the DGC. As a result, this section effectively only requires testing and does not set a standard that must be met with that testing. This edit removes the non-functional references to improve usability and clarity.

11. Page: (59)

**Proposed Correction:**

**1001.3.2.1 (10.3.2.1) High-Performance Building Operation Plan.** A master building plan for operation shall be developed that meets the requirements specified in Sections 1001.3.2.1.1 (10.3.2.1.1) through ~~1001.3.2.1.5 (10.3.2.1.5)~~ 1001.3.2.1.4 (10.3.2.1.4).

**Explanation:** The text of DGC Section 1001.3.2.1 references Section 1001.3.2.1.5 which has been deleted in the DGC. This edit removes the dead end reference to Section 1001.3.2.1.5 and terminates the range of referenced sections at Section 1001.3.2.1.4. This will improve usability and clarity.

- A. When the DGC changed the IgCC published value of an English system of measurement, the DGC did not change the metric equivalent all of the out-of-synch metric values will be deleted.
- B. The values in Table 501.3.6.3 are maximum total upright lumens per square foot; not percentages.