

Green and Resilient Building Standards Compliance

Requirement: Consolidated Notice II.B.2.a. *Green and resilient building standard for new construction and reconstruction of housing. Grantees must meet the Green and Resilient Building Standard, as defined in this subparagraph, for: (i) All new construction and reconstruction (i.e., demolishing a housing unit and rebuilding it on the same lot in substantially the same manner) of residential buildings and (ii) all rehabilitation activities of substantially damaged residential buildings, including changes to structural elements such as flooring systems, columns, or load-bearing interior or exterior walls. The Green and Resilient Building Standard requires that all construction covered by the paragraph above and assisted with CDBG–DR funds meet an industry-recognized standard that has achieved certification under (i) Enterprise Green Communities; (ii) LEED (New Construction, Homes, Midrise, Existing Buildings Operations and Maintenance, or Neighborhood Development); (iii) ICC–700 National Green Building Standard Green+ Resilience; (iv) Living Building Challenge; or (v) any other equivalent comprehensive green building program acceptable to HUD. Additionally, all such covered construction must achieve a minimum energy efficiency standard, such as (i) ENERGY STAR (Certified Homes or Multifamily High-Rise); (ii) DOE Zero Energy Ready Home; (iii) EarthCraft House, EarthCraft Multifamily; (iv) Passive House Institute Passive Building or EnerPHit certification from the Passive House Institute US (PHIUS), International Passive House Association; (v) Greenpoint Rated New Home, Greenpoint Rated Existing Home (Whole House or Whole Building label); (vi) Earth Advantage New Homes; or (vii) any other equivalent energy efficiency standard acceptable to HUD. Grantees must identify, in each project file, which of these Green and Resilient Building Standards will be used for any building subject to this paragraph. However, grantees are not required to use the same standards for each project or building.*

Building Standard: ICC-700-2020 National Green Building Standard with substitution which is allowable in section 12, *1200 Substitution of Practice: The adopting entity shall be permitted to substitute one or more practices with alternatives that achieve the overall intent of this standard. The determination of intent and equivalency is in the purview of the adopting entity.*

Compliance Threshold: In section 303.3 **Single-family homes, townhomes, and duplexes** (page 12) it states, “Single-family homes, townhomes, and duplexes that meet all applicable requirements of Chapter 12 shall be deemed Certified.”

Summary: As DLG and their CDBG-DR recipients worked through the ICC-700-2020 National Green Building Standard they quickly realized that the majority of factors were similar to the criteria in the Kentucky Housing Corporation (KHC) Minimum Design

Standards for New Construction One- and Two-Family Dwellings Units. Therefore, to ease the administrative burden of using an unfamiliar tool like the ICC-700-2020 National Green Building Standard, it was decided that instead CDBG-DR recipients would utilize the KHC Minimum Design Standards for New Construction One- and Two-Family Dwellings Units for Single Family New Construction projects. Here is how those two documents align and the additional processes that will be implemented to make the KHC Minimum Design Standards for New Construction One- and Two-Family Dwellings Units compliant with the ICC-700-2020 National Green Building Standard.

To meet some of the requirements listed below, recipients should hire energy auditors who can attest that the housing unit complies with the KHC Minimum Design Standards for New Construction One- and Two-Family Dwellings Units for Single Family New Construction projects and also meets the recommendations for compliance noted below. The energy auditor can issue a Home Energy Rating Certificate.

For Reference:

- [ICC 700-2020 National Green Building Standard](#) (link)
- [KHC Minimum Design Standards for New Construction One- and Two-Family Dwellings Units for Single Family New Construction projects](#) (link)

ICC-700 Section LOT	What it says	KHC	KHC Reference	Notes on KHC Reference	Recommendations for Compliance with ICC-700 if using KHC Standards
1201.1	Floodplain	No	No mention	No mention	Each developer will have documentation of the factors in section 1201.1 - 1201.5 in their project files.
1201.2	Lot slope	No	No mention	No mention	
1201.3	Soil prep/new plants	No	No mention	No mention	
1201.4	Regional vegetation	No	No mention	No mention	
1201.5	Protection of NR	No	No mention	No mention	
RESOURCE EFFICIENCY: DURABILITY					
1202.1	Capillary break	Yes	Foundations	Mentions vapor barrier/ground cover	Each developer will have documentation of the factors in sections 1202.8 and 1202.9 in their project files.
1202.2	Foundation drainage	Yes	Foundations	Foundation perimeter drain	
1202.3	Dampproof walls	Yes	Foundations		
1202.4	Sealed crawlspace	Yes	Footings, Foundations		
1202.5	Dry insulation	Yes	Insulation	Walls wrapped with 4 mil plastic	
1202.6	Water-resistive barrier	Yes	Covering and Decorating		
1202.7	Flashing	Yes	Ceiling and Roof Framing		
1202.8	Tile backing materials	No	No mention	No mention	
1202.9	Ice and water shield	No	No mention	No mention	
1202.10.	Architectural features	Yes		Mentions of ledger installation	
1202.11	Visible suspect fungal growth	Yes	Throughout doc	Implied	
1202.12	Exterior doors	Yes	Porches and Decks		
1202.13	Roof overhangs	Yes	Ceiling and Roof Framing	Installation but no quantity listed	
1202.14	Roof water discharge	Yes	Gutters and Downspouts		
ENERGY EFFICIENCY					

ICC-700 Section	What it says	KHC	KHC Reference	Notes on KHC Reference	Recommendations for Compliance with ICC-700 if using KHC Standards
1203.1	Mandatory requirements	Yes	Throughout doc	Implied	To meet the requirements of 1203.10, if possible each developer should achieve an energy cost or source energy performance that exceeds the ICC IECC by 7.5% using s using software in accordance with ICC IECC Section R405 is required.
1203.2	Adopting entity review	Yes	Introduction	Implied	
1203.3	Duct testing	Yes	Heating	Performed by an HVAX specialist	
1203.4	Radiant/hydronic space heating	No	No mention	If primary heat source should follow not required.	The developer should have documentation that the heating and cooling and water heating systems installed meet the performance requirements found in the ICC 700 manual table 1203.12.
1203.5	Thermal envelope air sealing	Yes	On-Site Improvements		
1203.6	Air sealing/insulation	Yes	Insulation		
1203.7	High-efficacy lighting	Yes	Throughout doc	Mentions of lighting requirements	The developer should have documentation that the duct leakage is within the total leakage limits established in criteria 1203.13.
1203.8	Appliances	No	No mention	If installed appliances shall be energy start	
1203.9	Clothes washers	No	No mention	If installed should follow, not required.	
1203.10.	Energy performance pathway	Yes	Throughout doc		DLG has decided not to pursue the ERI target pathway in 1203.15
1203.11	Energy perspective pathway	Yes			
1203.12	Space heating/cooling	No	No mention	No mention	
1203.13	Duct leakage	No	No mention	No mention	
1203.14	High-efficacy lighting	yes	Throughout doc		
1203.15	ERI target pathway	N/A			
WATER EFFICIENCY					
1204.1	Lavatory faucets	yes	Plumbing	Doesn't mention max. flow rate	

ICC-700 Section	What it says	KHC	KHC Reference	Notes on KHC Reference	Recommendations for Compliance with ICC-700 if using KHC Standards
1204.2	Water closets	Yes	Plumbing	Mentioned but not compliant with max. flush volume	
1204.3	Irrigation systems	No	No mention	If installed should follow, not required.	
INDOOR ENVIRONMENT QUALITY					
1205.1	Gas fireplaces/ direct heating	No	No mention	If installed should follow, not required.	Each developer should install adequate filters on their HVAC units and should follow 12015.12
1205.2	Fuel fireplaces/ stoves/inserts/heaters	No	No mention	If installed should follow, not required.	
1205.3	Garages	No	No mention	If installed should follow, not required.	
1205.4	Carpets	Yes	Floor coverings		
1205.5	CO alarms	No	No mention	If installed should follow, not required.	
1205.6	Int. architectural coatings	Yes	Footings, Foundations	Mentioned, not sure if in compliance with code	
1205.7	Local ventilation	Yes		Only mentions bathrooms	
1205.8	Whole dwelling ventilation	Yes		Only mentions bathrooms	
1205.9	Radon control	N/A	No mention	Kentucky is not in Zone 1 of the EPA Radon Map	
1205.10.	Kitchen exhaust	No	No mention	If installed should follow, not required.	
1205.11	MERV filters	No	No mention	No mention	
1205.12	HVAC system protection	No	No mention	No protection system mentioned	
HOMEOWNER OPERATION AND MAINTAINANCE					
1206.1	Homeowner's manual	No	No mention	No mention	Each developer should have documentation that they have provided the homeowner with a manual and training on systems they are unfamiliar with

ICC-700 Section	What it says	KHC	KHC Reference	Notes on KHC Reference	Recommendations for Compliance with ICC-700 if using KHC Standards
1206.2	Homeowner training	No	No mention	No mention	