

# National Green Building Standard® **2024 UPDATE**

## Public Comments on 2024 National Green Building Standard Draft 3

November 22, 2024

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#### Chapter 3: Compliance Method

305.2 Whole-building rating criteria	Final Formal Action:
Cindy Wasser	
Home Innovation Research Labs (NGBS Green)	
Within Table 305.2.6:	
BRONZE S	SILVER GOLD EMERALD
Performance Path - Water Rating Index 100-91 61-70 below 40 and below	90-81 <del>51-60</del> 80-7141-50 70 and
Within 11.804.2:	
11.804.2 Water efficiency rating levels. In lieu of threshold § 11.804.1 are in accordance with Table 305.2.611.804.2.	levels for Chapter 11 in Table 303, rRating levels for
Table 11.804.2	
Maximum WRI Scores for NGBS Certification in Chapter 8 E 4070-	BRONZE SILVER GOLD EMERALD 70100 6090 5080
Table 305.2.6 and Table 11.804.2 should show the same the Unfortunately, during the last round of revisions, the Conscious 11.804.2 but did not address 305.2.6. To eliminate the oppincluding this information only in one location. Delete the 305.2.6. I suggest also deleting the language "in lieu of three reference is not applicable for Existing Buildings. Section 30 appropriate reference for Existing Buildings. No need to sat	ensus Committee edited the threshold values within portunity for misalignment in the future, I suggest table from 11.804.2 and update the values within eshold levels for Chapter 11 in Table 303," since the 03 addresses new construction; Section 305 is the
	Cindy Wasser  Home Innovation Research Labs (NGBS Green)  Within Table 305.2.6:  BRONZE  Performance Path - Water Rating Index 100-91 61-70 below 40 and below  Within 11.804.2:  11.804.2 Water efficiency rating levels. In lieu of threshold § 11.804.1 are in accordance with Table 305.2.611.804.2.  Table 11.804.2  Maximum WRI Scores for NGBS Certification in Chapter 8 14070-  Table 305.2.6 and Table 11.804.2 should show the same the Unfortunately, during the last round of revisions, the Cons 11.804.2 but did not address 305.2.6. To eliminate the oppincluding this information only in one location. Delete the 305.2.6. I suggest also deleting the language "in lieu of threference is not applicable for Existing Buildings. Section 3

#### Chapter 7: Energy Efficiency

PC302 ID 8678	702 PERFORMANCE P	ATH Final Formal Action:
Submitter:	Pranav Phatak	
Organization:	Home Innovation Research Labs (NGBS Green)	
Comment:	10.0.0	Reference Home Values Rise Multifamily and Mixed-Use Modeling)
	Lighting	Default lighting and appliance values from ANSI/RESNET 301 IECC R404.1
	Appliances	Default lighting and appliance values from ANSI/RESNET 301 10 CFR 430.32
	Additional Energy Efficiency	IECC R401.2.5
	10 CFR 430.32 effectiv	e date: January 1 <sup>st</sup> , 2024.
Reason:	I recommend updating Table 702.2.2.1 NGBS Reference Home Values as shown to align the NGBS reference home with IECC requirements for lighting and additional energy efficiency and with current federal minimum efficiencies for appliances. The current NGBS reference home includes significantly lower lighting and appliances efficiency limits and does not account for the IECC requirement for additional energy efficiency. This would falsely inflate the percentage energy savings and points for performance path. If these important changes are not made, the NGBS reference home will not be equivalent with the code baseline, and the 702 Performance Path analysis will be artificially high.	

PC303 ID 8675	703.2 Building envelope	Final Formal Action:
Submitter:	Amy Schmidt	
Organization:	Self	
Comment:	Unstrike stricken table 703.2.1(a)	
	Strike underlined table 703.2.1(a)	
	All other language and table 703.2.1(b) remain unchanged	1.
	See attached document.	
Reason:	My comments are submitted on behalf of DuPont. The draft the table with the correct equivalent values. Mandatory co IECC. The table 703.2.1(a) that is struck in this draft correct are awarded for going above and beyond the base requirer R-value based. This alone makes it incompatible with this s added table is not appropriate since it has values that are lewould make no sense to award points based on an envelop should be reinstated and then added (underlined) table should 100.2.1(b).	ompliance options in 703.1 are based on the 2021 tly shows the 2021 IECC U-factors for which points ments in 703.1. The draft adds a table that is mostly section as it is U-factor based. Additionally, the ess efficient than the base requirements in 703.1. It be that is less efficient. The original (struck) table
Substantiating	Yes	
Documents:		

PC304 ID 8677	703.2 Building envelope	Final Formal Action:
Submitter:	Indya Rogers	
Organization:	ACC Plastics Division	
Comment:	For UA calculations this should be using the U-factor table from the IECC, not the R-value table. Second, since this is referencing the 2021 IECC in the reference section of the standard, the applicable table for UA calculations from the 2021 IECC is attached.  The IECC reference used in the sections 703.1.11 and 703.1.1.2 do not include the year of the IECC and indicate that whatever edition of IECC that is that the UA maximum must comply with R402.1.5, or the prescriptive R-values in Table R402.1.3. This as a mandatory requirement would seem to over-ride or conflict with the Table from 2012 IECC included on p.78.	
Reason:	There appears to be a mistake in the Table 703.2.1(a). The mandatory requirement for building thermal envelope per NGBS 703.1.1 is unclear	
Substantiating	Yes	
Documents:		

### Chapter 9: Indoor Environmental Quality

PC305 ID 8676	905.1 Sound barrier Final Formal Action:
Submitter:	Steven Hedback
Organization:	Self
Comment:	Hi,
	In reference to Chapter 9 Indoor Environmental Quality Section 905.1 Sound Barrier as well as the corresponding section 11.905.1 within the Chapter 11 Remodeling section within the 2022 Draft 3, we have the following comments.
	Currently the section calls to meet an STC 52 or higher rating between bedrooms and adjacent living spaces within the same dwelling unit or home. These levels are around the typical criteria for acoustical separation between residential units within multifamily construction which is a much more acoustically sensitive than within the same residential unit.
	Typical interior walls in single family construction perform at around an STC 30 (or 35 with insulation in the cavities), and interior doors are hollow core wood or fiberglass doors with significant undercuts and no seals which would further reduce the performance of the separation between units.
	Improving the performance of the interior walls within a dwelling unit would require switching to a staggered or double stud assembly (or an assembly with resilient channels) and replacing the door with an STC 52-55 rated door. This would add significant costs to single family projects.
	We recommend utilizing ICC G2-2010 (linked below) which provides criteria for noise transfer between multifamily units and is well written and researched.
	https://codes.iccsafe.org/content/iccg22010/icc-g2-2010-acoustics
	For interior walls within a dwelling unit, it's not typical but we have seen it. We could come up with something which would likely be inspired by Table 10-4 from HUD's "A guide to Airborne, Impact, and Structure Borne Noise Control in Multifamily Dwellings" which provides acoustical criteria for noise transfer between rooms within the same dwelling. (Table 10-3 is the criteria for between units.)
	However, for single family homes this would "Provide room-to-room privacy between bedrooms and adjacent living spaces within dwelling units or homes by including full depth insulation within the stud or joist bays, install an additional layer of drywall to the bedroom side of the wall, doors leading to bedrooms should be solid-core wood or hollow metal doors and be gasketed with rubberized seals and door bottoms, and transfer vents should be offset within a stud bay to prevent line of sight." (This would be about an STC 37 rating with a slightly lower performance at the adjacency with the door within the assembly.)
	We recommend switching from:
	905.1 Sound barrier. Provide room-to-room privacy between bedrooms and adjacent living spaces within dwelling units or homes by achieving an STC greater than 52 in accordance with the criteria below.
	STC greater than 55 (NIC greater than 47) = Articulation Index 0 to 0.05-
	STC 52 to 55 (NIC 44 to 47) = Articulation Index 0.05 to 0.15
	To something like this:
	905.1 Sound barrier for multi-family dwellings. For walls and floor-ceiling assemblies separating one unit from another adjacent unit, these should be designed to meet the criteria set forth in ICC G2-2010.

	Grade A Performance - 4 points (Or whatever the maximum would be)
	Grade B Performance - 2 points (Or whatever half the maximum would be)
	Please let me know if you have any questions or comments.
	Kind Regards,
	Steve Hedback
Reason:	Unclear and Prohibitive