Item B-2



APPENDIX C CODE CHANGE PROPOSAL NORTH CAROLINA BUILDING CODE COUNCIL

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Petition for Rule Making Item Number						
Granted by BCC	Adopted by BCC	Approved by RRC				
Denied by BCC	Disapproved by BCC	Objection by RRC				
PROPONENT: Carl N	<u>Martin</u>	PHONE: (919)-647-000	00			
REPRESENTING: I	Retired Deputy Commissioner of English	gineering (NCDOI-OSFM)				
ADDRESS: 1429 Roo	ck Quarry Road, Suite 105					
CITY: Raleigh	STATE:	: <u>NC</u> ZIP: <u>27610</u>				
E-MAIL: none		FAX: (<u>)</u> -				
North Carolina State Building Code, Volume <u>Building Code</u> - Section <u>3302.4 and Table 506.2</u>						
	Revise section to read as follows: Add new section to read as follows:	[] Delete section and substitu [] Delete section without sub				
LINE THROUGH MA	TERIAL TO BE DELETED	UNDERLINE MATERIAL TO	BE ADDED			

Please type. Continue proposal or reason on plain paper attached to this form. See reverse side for instructions.

SECTION 506 BUILDING AREA

TABLE 506.2 ALLOWABLE AREA FACTOR (A_t = NS, S1, S13R, S13D or SM, as applicable) IN SQUARE FEET^{a, b}

	SEE FOOTNOTE S	TYPE OF CONSTRUCTION											
OCCUPANCY CLASSIFICATION		Type I		Type II		Type III		Type IV			Type V		
		Α	В	Α	В	Α	В	Α	В	С	HT	Α	В
R-2 ^h	NS ^d	UL	UL	24,000	16,000	24,000 18,000		61,500	41,000	25,625	20,500	12,000	7,000
	S13R												
	S1	UL	UL	96,000	64,000	96,000	64,000	246,000	164,000	102,500	82,000	48,000	28,000
	SM	UL	UL	72,000	48,000	72,000	48,000	184,500	123,000	76,875	61,500	36,000	21,000

(The remainder of Table 506.2 remains unchanged by this amendment.)

3302.4 Firewall construction for Type III and Type V construction. For buildings of Type III and Type V construction, where fire walls complying with Section 706 are provided, the fire walls shall be constructed and completed at each story before other walls or partitions are constructed for the story and before the story or roof above the story is constructed.

Exception: Horizontal lengths of interior or exterior wall that are not part of the fire-resistant-rated fire wall may be constructed to provide horizontal stability for the fire wall. The length of such supporting walls is limited to the height of the story until the fire wall of the story above is completed or the horizontal assembly above the story is completed.

Will this proposal change the cost of construction? Decrease []	Increase [X]	No []
Will this proposal increase to the cost of a dwelling by \$80 or more?	Yes [X]	No []
Will this proposal affect the Local or State funds? Local []	State []	No [X]
Will this proposal cause a substantial economic impact (>\$1,000,000)	? Yes []	No [X]

- Non-Substantial Provide an economic analysis including benefit/cost estimates.
- Substantial The economic analysis must also include 2-alternatives, time value of money and risk analysis.
- Pursuant to \$143-138(a1)(2) a cost-benefit analysis is required for all proposed amendments to the NC Energy Conservation Code. The Building Code Council shall also require same for the NC Residential Code, Chapter 11.

REASON: This amendment is proposed to protect the public, construction workers, and emergency responders by reducing allowed building area for Group R-2 of Type III construction and further limiting the spread of fire in Type III and V construction during the construction process. This is in response to at least two major fires of this type in NC in the past few years.

The allowed building area is changed to the average between Type II and Type V construction. The logic is that Type III construction has a lot of combustible material within it even though the exterior walls are noncombustible.

By constructing the fire walls prior to completing a floor the fire wall has a chance of restricting the spread of fire throughout the building before emergency responders can be on site to possibly control a fire. The current code is only intending to address the safety of the occupants of the building after it is completed.

BCC CODE

CHANGES

Signature: Carl Martin Date: July 31, 2023 FORM 11/26/19