



BEAUFORT COUNTY BUILDING CODES
100 RIBAUT RD. BUILDING 100
BEAUFORT, SC 29901
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Subject: Structural Review:

1. STRUCTURAL SYSTEMS (Chapters 16, 17, 18 of the IBC- 2015, ASCE 7-10, ASCE- 24)

2. STRUCTURAL DESIGN (Chapter 16)

3. STRUCTURAL DESIGN CALCULATIONS

4. 2 Sets Submitted for all structural members

5. (106, 107.1, 107.2.1, 1604, 1605)

6. DESIGN LOADS ON CONSTRUCTION DOCUMENTS

7. (1603)

8. Uniformly distributed floor live loads

9. (1603.1.1, Table 1607.1)

10. Floor Area Use Loads

11. Live load reduction

12. (1603.1.1, 1607.10, 1607.11)

13. Roof live loads (1603.1.2, 1607.12)

14. Roof snow loads (1603.1.3, 1608; Chapter 7 of ASCE 7)

15. Ground snow load,

16. p_g (1608.2; 7.2 of ASCE 7)

17. If $p_g > 10$ psf, flat-roof snow load,

18. p_r (7.3 of ASCE 7)

19. If $p_g > 10$ psf, snow exposure factor,

20. C_e (Table 7-2, 7.3.1 of ASCE 7)

21. If $p_g > 10$ psf, snow load importance factor,

22. I_s (7.3.3, Table 1.5-2 of ASCE 7)

23. If $p_g > 10$ psf, roof thermal factor,

24. C_t (Table 7-3, 7.3.2 of ASCE 7)

25. Sloped roof snow load, p_s (7.4 of ASCE 7)

26. Ponding instability (1608.3; 7.11 of ASCE 7)

27. DESIGN LOADS

28. Wind loads (1603.1.4, 1609; Chapters 26 - 31 of ASCE 7)

29. Design procedure (1609.1.1, 1609.6,

- 30. Chapters 26 - 31 of ASCE 7)
- 31. Alternate all-heights method (1609.6)

32. Wind speed

- 33. (1609.3; Fig. 26.5.1 of ASCE 7)

34. Risk category

- 35. (Table 1604.5; Table 1.5-1 of ASCE 7)
- 36. **Surface roughness/Exposure categories**
- 37. (1609.4; 26.7 of ASCE 7)
- 38. Internal pressure coefficient
- 39. (26.11, Table 26.11-1 of ASCE 7)

40. Component and cladding pressures

- 41. (Chapter 30 of ASCE 7)
- 42. Main wind-force resisting system
- 43. (27.4, 27.6, 28.4, 28.6 of ASCE 7)
- 44. Earthquake design data
- 45. (1603.1.5, 1613; Chapters 11 - 13 and 15 - 23 of ASCE 7)

46. Risk category

- 47. (Table 1604.5; Table 1.5-1 of ASCE 7)

Seismic importance factor, I_e

- 48. (11.5.1, Table 1.5-2 of ASCE 7)
- 49. Mapped spectral response acceleration,
- 50. S_s and S_1 (1613.3.1; 11.4.1 of ASCE 7)
- 51. Design spectral response parameters, S_{DS}
- 52. and S_{D1} (1613.3.4; 11.4.4 of ASCE 7)
- 53. Site class (1613.3.2; 11.4.2, Chapter 20 of
- 54. ASCE 7)
- 55. Seismic design category
- 56. (1613.3.5; 11.6 of ASCE 7)
- 57. Basic seismic-force-resisting system
- 58. (Table 12.2-1 of ASCE 7)
- 59. Response modification coefficient, R
- 60. (Table 12.2-1 of ASCE 7)
- 61. Seismic response coefficient,
- 62. C_s (12.8.1.1 of ASCE 7)
- 63. _ Analysis procedure (12.6 of ASCE 7)
- 64. Design base shear (12.8 of ASCE 7)
- 65. Flood loads (1603.1.7, 1612) (ASCE 24)**
- 66. Flood hazard area (1612.3)
- 67. Documentation (1612.5)
- 68. Ice loads (1614; Chapter 10 of ASCE 7)
- 69. Other loads**
- 70. Concentrated live loads (1607.4)
- 71. Partition loads (1607.5)
- 72. Impact loads (1607.9)
- 73. Misc. loads (1607.6, 1607.7, 1607.8,
- 74. 1607.13, 1607.14, 1610, 1611, 2404)
- 75. Structural integrity (1615)
- 76. Design requirements (1615.1 - 1615.4)