

CODE IMPACT CHEATSHEET FOR NFPA 13R/13D (IBC 2021)

While an NFPA 13R or 13D system may be permitted by the building code and the standard, the use of NFPA 13R and 13D also has other code implications for a building. Here is a look at where the use of NFPA 13, 13R, and 13D affect building code. All references below are for **IBC 2021 Edition**. For more, visit www.meyerfire.com/subscribe.

	NFPA 13	NFPA 13R	NFPA 13D	Non-Sprinklered
Allowable Building Height (for Residential Occupancies, IBC Table 504.3)				
Type I-A	Unlimited	60 ft.	60 ft.	Unlimited
Type I-B	180 ft.	60 ft.	60 ft.	160 ft.
Type II-A	85 ft.	60 ft.	60 ft.	65 ft.
Type II-B	75 ft.	60 ft.	60 ft.	55 ft.
Type III-A	85 ft.	60 ft.	60 ft.	65 ft.
Type III-B	75 ft.	60 ft.	60 ft.	55 ft.
Type IV-A	270 ft.	60 ft.	60 ft.	65 ft.
Type IV-B	180 ft.	60 ft.	60 ft.	65 ft.
Type IV-C, HT	85 ft.	60 ft.	60 ft.	65 ft.
Type V-A	70 ft.	60 ft.	50 ft.	50 ft.
Type V-B	60 ft.	60 ft.	40 ft.	40 ft.
Number of Stories (for Residential Occupancies, IBC Table 504.4)				
Type I-A	Unlimited	4 stories	4 stories	Unlimited ¹
Type I-B	12 stories	4 stories	4 stories	11 stories ¹
Type II-A, II-B, III-A, III-B, IV-HT	5 stories	4 stories	4 stories	4 stories ¹
Type IV-A	18 stories	4 stories	4 stories	4 stories ¹
Type IV-B	12 stories	4 stories	4 stories	4 stories ¹
Type IV-C (R-1, R-2 Occupancy)	8 stories	4 stories	4 stories	4 stories ¹
Type IV-C (R-3, R-4 Occupancy)	5 stories	4 stories	4 stories	4 stories ¹
Type V-A	4 stories	4 stories	3 stories	3 stories ¹
Type V-B (R-1, R-2, R-4 Occupancy)	3 stories	3 stories	2 stories	2 stories ¹
Type V-B (R-3 Occupancy)	4 stories	4 stories	3 stories	3 stories ¹
Area Increase (IBC Table 506.2)				
Area increase permitted?	Yes; per 506.2	No	No	No
Egress				
Accessible Means of Egress	Yes; per 1009.2.1	Yes; per 1009.2.1	No	No
Common Path Increase	Yes; per 1006.2.1	Yes; per 1006.2.1	No	No
Dead End Corridor	Yes; per 1020.5	No	No	No
Egress Width Decrease	Yes; per 1005.3	Yes; per 1005.3	No	No
Exit Discharge Allowance	Yes; per 1028.1	Yes; per 1028.1	No	No
Travel Distance Increase	Yes; per 1017.2	Yes; per 1017.2	No	No
Rating Reductions				
Separated Occupancies	Yes; per T508.4	No Reduction	No Reduction	No Reduction
Fire Partitions	Yes; per 708.3	No Reduction	No Reduction	No Reduction
Corridor Walls	Yes; per T1020.2	Yes; per T1020.2	No Reduction	No Reduction
Draftstopping Reductions				
Residential Floor/Ceiling	Yes; per 718.3	Yes; per 708.4.2 ²	No	No
Nonresidential	Yes; per 718.3	No	No	No
Group R-1, R-2 Attics	Yes; per 718.4	Yes; per 708.4.2 ²	No	No
Other Group Attics	Yes; per 718.4	No	No	No
Remove Manual Pull Stations				
Group A, B, E, F, M	Yes; per 907.2 ³	No	No	No
Group R-1, R-2	Yes; per 907.2.8.1 ³	Yes; per 907.2.8.1 ³	No	No
Miscellaneous				
Hazardous Mat. Storage Increase	Yes; T307.1(1), (2)	No	No	No
Atrium Use Allowance	Yes; per 404.2	No	No	No
Unlimited Area Buildings	Yes; per 507.4, .5	No	No	No
Allowable Area of Openings	Yes; per T708.5	No	No	No
Vertical Separation of Openings	Yes; per 705.8.5	Yes; per 705.8.5	No	No
Interior Finish Reduction	Yes; per T803.13	Yes; per T803.13	No	No
Floor Finish Reduction	Yes; per 804.4.2	Yes; per 804.4.2	No	No

¹ Sprinkler protection is required for new Group R occupancies, by IBC Section 903.2.8.

² Sprinkler protection must be extended into applicable areas, such as attics, to qualify for reductions.

³ Check code sections for additional requirements in reductions and code exemptions.