

Table 7.4.1 Allowable Building Height and Area

Construction Type	TYPE I		TYPE II				TYPE III				TYPE IV		TYPE V							
	442		332		222		111		000		211		200		2HH		111		000	
	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N
Maximum building height (ft)	UL	UL	420	400	180	160	85	65	75	55	85	65	75	55	85	65	70	50	60	40
OCCUPANCY																				
Assembly >1000	UL	4	UL	4	12	4	3	2	1	NP	3	2	NP	NP	3	2	3	2	NP	NP
	UL		UL		UL		15,500		8,500		14,000		NP		15,000		11,500		NP	
Assembly >300	UL	4	UL	4	12	4	4	3	2	1	4	2	1	1	4	2	4	2	1	1
	UL		UL		UL		15,500		8,500		14,000		8,500		15,000		11,500		5,500	
Assembly ≤300	UL	7	UL	7	12	7	4	3	2	1	4	3	2	1	4	3	4	3	2	1
	UL		UL		UL		15,500		8,500		14,000		8,500		15,000		11,500		5,500	
Assembly, outdoor	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL	4	3	3	2	4	3	3	2	2	1
	UL		UL		UL		UL		UL		UL		UL		UL		UL		UL	
Business	UL	UL	UL	UL	12	11	6	5	5	4	6	5	5	4	6	5	4	3	3	2
	UL		UL		UL		37,500		23,000		28,500		19,000		36,000		18,000		9,000	
Board and care, large	UL	NP	UL	NP	12	NP	3	NP	2	NP	2	NP	1	NP	2	NP	2	NP	1	NP
	UL		UL		55,000		19,000		10,000		16,500		10,000		18,000		10,500		4,500	
Board and care, small	UL	UL	UL	UL	12	11	5	4	5	4	5	4	5	4	5	4	4	3	3	2
	UL		UL		UL		24,000		16,000		24,000		16,000		20,500		12,000		7,000	
Day care	UL	2	UL	2	12	2	6	1	4	1	4	1	2	1	2	1	4	1	2	1
	UL		UL		60,500		26,500		13,000		23,500		13,000		25,500		18,500		9,000	
Detention and correctional	UL	7	UL	7	12	7	2	2	2	NP	2	2	2	NP	2	2	2	2	2	NP
	UL		UL		UL		15,000		10,000		10,500		7,500		12,000		7,500		5,000	
Educational	UL	UL	UL	UL	12	5	4	3	3	2	4	3	3	2	4	3	2	1	2	1
	UL		UL		UL		26,500		14,500		23,500		14,500		25,500		18,500		9,500	
Health care	UL	NP	UL	NP	12	NP	3	NP	1	NP	1	NP	NP	NP	1	NP	1	NP	NP	NP
	UL		UL		UL		15,000		11,000		12,000		NP		12,000		9,500		NP	
Health care, ambulatory	UL	UL	UL	UL	12	11	6	5	5	1	6	5	5	1	6	5	4	3	3	1
	UL		UL		UL		37,500		23,000		28,500		19,000		36,000		18,000		9,000	
Industrial, ordinary hazard	UL	UL	UL	UL	12	11	5	4	3	2	4	3	3	2	5	4	3	2	2	1
	UL		UL		UL		25,000		15,500		19,000		12,000		33,500		14,000		8,500	
Industrial, low hazard	UL	UL	UL	UL	12	11	6	5	4	3	5	4	4	3	6	5	4	3	3	2
	UL		UL		UL		37,500		23,000		28,500		18,000		50,500		21,000		13,000	
Mercantile	UL	UL	UL	UL	12	11	5	4	5	4	5	4	5	4	5	4	4	3	2	1
	UL		UL		UL		21,500		12,500		18,500		12,500		20,500		14,000		9,000	
Residential	UL	UL	UL	UL	12	11	5	4	5	4	5	4	5	4	5	4	4	3	3	2
	UL		UL		UL		24,000		16,000		24,000		16,000		20,500		12,000		7,000	
Residential, one- and two-family	UL	UL	UL	UL	12	11	5	4	5	4	5	4	5	4	5	4	4	3	3	2
	UL		UL		UL		UL		UL		UL		UL		UL		UL		UL	
Storage, ordinary hazard	UL	UL	UL	UL	12	11	5	4	4	3	4	3	4	3	5	4	4	3	2	1
	UL		UL		48,000		26,000		17,500		26,000		17,500		25,500		14,000		9,000	
Storage, low hazard	UL	UL	UL	UL	12	11	6	5	5	4	5	4	5	4	6	5	5	4	3	2
	UL		UL		79,000		39,000		26,000		39,000		26,000		38,500		21,000		13,500	

(continues)

Table 7.4.1 *Continued*

Construction Type	TYPE I				TYPE II				TYPE III				TYPE IV		TYPE V					
	442		332		222		111		000		211		200		2HH		111		000	
	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N
Maximum building height (ft)	UL	UL	420	400	180	160	85	65	75	55	85	65	75	55	85	65	70	50	60	40
OCCUPANCY																				
HIGH HAZARD CONTENTS																				
High hazard contents not requiring Protection Level 1 through Protection Level 5	Use values for appropriate occupancy class. For industrial or storage occupancies, use values for ordinary hazard.																			
Protection Level 1	1	NP	1	NP	1	NP	1	NP	1	NP	1	NP	1	NP	1	NP	1	NP	NP	NP
	21,000		21,000		16,500		11,000		7,000		9,500		7,000		10,500		7,500			NP
Protection Level 2	UL	NP	UL	NP	3	NP	2	NP	1	NP	2	NP	1	NP	2	NP	1	NP	1	NP
	21,000		21,000		16,500		11,000		7,000		9,500		7,000		10,500		7,500			3,000
Protection Level 3	UL	NP	UL	NP	6	NP	4	NP	2	NP	4	NP	2	NP	4	NP	2	NP	1	NP
	UL		UL		60,000		26,500		14,000		17,500		13,000		25,500		10,000			5,000
Protection Level 4	UL	NP	UL	NP	8	NP	6	NP	4	NP	6	NP	4	NP	6	NP	4	NP	3	NP
	UL		UL		UL		37,500		17,500		28,500		17,500		36,000		18,000			6,500
Protection Level 5	4	NP	4	NP	4	NP	3	NP	3	NP	3	NP	3	NP	3	NP	3	NP	2	NP
	UL		UL		UL		37,500		23,000		28,500		19,000		36,000		18,000			9,000

For SI units, 1 ft = 0.3048 m; 1 ft² = 0.093 m².

S: Allowable building height in feet and allowable number of stories in buildings protected with an automatic sprinkler system in accordance with 55.3.1.1(1) and electrically supervised in accordance with 55.3.2.

N: Allowable building height in feet and allowable number of stories in buildings not protected with an automatic sprinkler system in accordance with 55.3.1.1(1) and electrically supervised in accordance with 55.3.2.

UL: Unlimited.

NP: Not permitted.

Note: Within each occupancy category and protection level, the top row refers to the allowable number of stories, and the bottom row refers to the allowable area per story. (See 3.3.450, *Number of Stories*.)

7.4.1.4.4 Airport Traffic Control Towers.

7.4.1.4.4.1 Airport traffic control towers with cab floor areas not exceeding 1500 ft² (140 m²) per story shall be permitted to be constructed in accordance with Table 7.4.1.4.4.1.

7.4.1.4.4.2 Height shall be measured from grade plane to the cab floor.

7.4.1.4.5 Special Industrial and Storage Facilities.

7.4.1.4.5.1 The height and area of buildings and structures designed and constructed in accordance with NFPA 61, NFPA 120, NFPA 654, and NFPA 664 shall be governed by Table 7.4.1.4.5.1.

7.4.1.4.5.2 For coal preparation plants designed and constructed in accordance with NFPA 120, and grain handling and processing facilities designed and constructed in accordance with NFPA 61, where structures of Type IV construction are surrounded on all sides by a public way or an open space of at least 60 ft (18 m) in width, the height shall be permitted to be increased by 20 ft (6100 mm).

Table 7.4.1.4.4.1 Allowable Building Height and Area for Airport Traffic Control Towers

Type of Construction	Height		Area per Story	
	ft	m	ft ²	m ²
I (442)	UL	UL	1500	140
I (332)	UL	UL	1500	140
II (222)	240	73	1500	140
II (111)	100	30	1500	140
II (000)	85	26	1500	140
III (211)	65	20	1500	140

UL: Unlimited.