





Existing Building Code

- Today's Objectives
 - Understand proper use of the IEBC
 - Review the IEBC general requirements
 - Understand the IEBC / Fire Code relationship
 - Understand the 3.1 IEBC compliance options
 - Understand mechanics of the performance option
 - Detail all components of a simple building summary worksheet
 - Understand the function of ancillary IEBC portions









































































Existing Building Code

• 1401.1 Compliance Alternative

- Intention of Chapter 14
 - Provide an alternative to full prescriptive compliance
 - Chapters 4-13 are mute
 - » UNLESS..... Chapter 14 specifically sends us there



Based on an old country axiom: You can't make a silk purse out of a sow's ear, no matter how hard you try! But, you can produce a very serviceable wallet





































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Table 1401 7	Early county	in the second		
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Existing Building Code					
SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)		
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1	1	1		
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conridor Walls 1401.6.6 Vertical Openings					
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	Text requires that we enter the <u>lesser value</u> for all three categories.				
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	Again the absolut	e maximum value to	be entered is 10!		
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting	 Note that building height and area is not limited but will certainly result in many negative points if the building is beyond current IBC limitations. 				
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes					
1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration	A designer could control building area with fire separation				
1401.6.21.3 Attendant-to-patient Ratio					
Building score—total value					







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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)		
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5	1 10.5	1 10.5		
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conridor Walls 1401.6.6 Vertical Openings	Values entered based on permitted maximum of 50% of the 'Fire Safety Score found in Table				
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	 1401.8 per 1401.6.2. Note that the lesser of calculated or 50% limitation is applied to all three categories. Huge points gained based on the voluntary upgrade of the sprinkler from a NFPA 13R to a NFPA 13 system. NOTE: Installation of a 13R system, as permitted by Code, would have awarded only 4.2 points based on the reduced maximum permitted building area. 				
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends					
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting					
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.20 Smoke compartmentation 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio					
Building score—total value					





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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)	
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0	
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conridor Walls 1401.6.6 Vertical Openings	We take the 'a	oose egg' as our buil	ding is not	
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	separated into fire compartments by a 2 hour wall. Our compartment is over 15K. Designer could gain 4 points by diving the building into two parts with a fire wall built to IBC Chapter 7 specs.			
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends				
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting				
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use				
1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration				
1401.6.21.3 Attendant-to-patient Ratio Building score—total value				





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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)	
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0	
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conidor Walls 1401.6.6 Vertical Openings	0	0	0	
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	We take nothing for the expected one hour rated partition dwelling separation. NOTE possible to lose			
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	points for lesser separation			
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting				
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration				
1401.6.21.3 Attendant-to-patient Ratio Building score—total value				





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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)	
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0	
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Convidor Walls 1401.6.6 Vertical Openings	0 0	0	0 0	
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	Again, nothi	ng for the expected ra	ated corridor	
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends				
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting				
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio				
Building score-total value				





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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)	
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0	
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conridor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6	
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System 1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	 Picking up points for good shaft protection based on full compliance with existing IBC requirements. Especially important in our void filled, ancient wood framed building. 			
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting				
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio	Note that some v poor vertical ope	ery serious point cou ning separation	Id be lost for	
Building score—total value				





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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)	
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0	
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Corridor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6	
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5	5	5	
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	We'll take the who the spread of fire c	le 'pot' for HVAC pos or smoke	ing little hazard to	
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting				
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.20 Smoke compartmentation 1401.6.20.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio	-			
Building score-total value				





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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)	
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0	
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conridor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6	
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5 2	5 2	5 2	
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	Couple of point	s for a good fire deter	ction scheme	
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting				
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use				
1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio				
Building score-total value				





Existing Building Code					
FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)			
1 10.5 0	1 10.5 0	1 10.5 0			
0 0 6.6	0 0 6.6	0 0 6.6			
5 2 0	5 2 0	5 2 0			
System is that which is expected – we make no forward progress in point accumulation.					
	FIRE SAFETY (FS)	FIRE SAFETY (FS) MEANS OF EGRESS (ME) 1 10.5 10.5 10.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 5 5 2 2 0 0 System is that which is expected — forward progress in point accumula Again, big points could be lost for points			





Existin	ig Bullali	ng Code	
SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conidor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5 2 0	5 2 0	5 2 0
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	* * * *	3	3
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting	We'll take 3 po 'Fire Safety' is r	ints, but only in 2 cat not really an issue - o	egories. nce a fire has
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio	started.	-	
Building score-total value			





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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)	
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0	
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conridor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6	
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5 2 0	5 2 0	5 2 0	
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	李 本 李 李	3 0	3 0	
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting	At least we didn't	lose points		
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio	Note that exit must and quantity as re to lose points exis that required capa	acity or required qua	ast the capacity ding. The potential e is used to meet ntity.	
Building score—total value				





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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)			
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0			
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Convidor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6			
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5 2 0	5 2 0	5 2 0			
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	李 本 本 本 本 本 本 本	3 0 0	3 0 0			
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting			· · · · ·]			
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use	We could have gained points if the designer had been able to eliminate all dead ends or make the dead ends very wide.					
1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio						
Building score-total value						





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SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)			
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0			
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conridor Walls 1401.6.6 Vertical Openings	0 0 0 0 0 0 0 6.6 6.6 6.6					
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5 5 5 2 2 2 2 0 0 0 0					
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	*** **** *	3 0 0	3 0 0			
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting	**** Nice boost for a fair	6.4 Iy short travel distant	6.4 ce in an AS			
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio	protected structure. Note that a travel distance greater than allowed for a new building would result in lost points. Keep in mind that the egress capacity, and number of					
Building score—total value	egress, must be con	npliant per 1401.6.11	1.1			





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1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Convidor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6			
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5 2 0	5 2 0	5 2 0			
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	李本安 安本安 安	3 0 0	3 0 0			
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting	**** 2	6.4 2	6.4 2			
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio	Installation (intender boosted smart de	on of a stretcher capa d to accommodate bi the count. Money w signer.	able elevator cycles) ell spend by a			
Building score—total value						





ng Buildir	ng Code			
FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)		
1	1	1		
10.5	10.5	10.5		
0	0	0		
0	0	0		
0	0	0		
6.6	6.6	6.6		
5	5	5		
2	2	2		
0	0	0		
特殊 举 特	3	3		
特	0	0		
学	0	0		
****	6.4	6.4		
2	2	2		
****	0	0		
Taking the goose eggs for our battery back-emergency lights. Fairly easy to pick-up four additional points with a generator. However, voluntary installation of a new generator would prompt IBC requirements that the unit be sized to handle the new elevator per IBC 3003.1.				
	FIRE SAFETY (FS) 1 10.5 0 0 6.6 5 2 0 **** *** *** **	FIRE SAFETY (FS)MEANS OF EGRESS (ME)110.510.500000000006.66.6552000****0****0****6.422****0****0****0****10.500****0****0****0****0Taking the goose eggs for our battery lights. Fairly easy to pick-up four add a generator. However, voluntary inst generator would prompt IBC requirer be sized to handle the new elevator problematic sized to bandle sized to band		





Existing Building Code						
SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)			
1401.6.1 Building Height	1	1	1			
1401.6.2 Building Area	10.5	10.5	10.5			
1401.6.3 Compartmentation	0	0	0			
1401.6.4 Tenant and Dwelling Unit Separations	0	0	0			
1401.6.5 Conridor Walls	0	0	0			
1401.6.6 Vertical Openings	6.6	6.6	6.6			
1401.6.7 HVAC Systems	5	5	5			
1401.6.8 Automatic Fire Detection	2	2	2			
1401.6.9 Fire Alarm System	0	0	0			
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	非法法 法 法 法 法	3 0 0	3 0 0			
1401.6.13 Maximum Exit Access Travel Distance	****	6.4	6.4			
1401.6.14 Elevator Control	2	2	2			
1401.6.15 Means of Egress Emergency Lighting	****	0	0			
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio Building score-total value	0 No mixed occ no chance to	**** upancies in our build gain or lose points	0 ling means			





Existing Building Code				
SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (G	
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0	
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Corridor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6	
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5 2 0	5 2 0	5 2 0	
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	*** ****	3 0 0	3 0 0	
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting	**** 2 ****	6.4 2 0	6.4 2 0	
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes	0 4	* * * * 4 ÷2 = 2	0 4	
1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio	Our building will have a NFPA 13 Sprinkler. Protection in all portions of the building will give us some points. Recall that the sprinkler 'upgrade' had a positive impact			
Building score—total value	when earlier consideration was made to building height			





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1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Corridor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6		
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5 2 0	5 2 0	5 2 0		
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	非法专 法 法 法 法 法	3 0 0	3 0 0		
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting	**** 2 ****	6.4 2 0	6.4 2 0		
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use	0 4 0	$4 \div 2 = 2$ 0	0 4 0		
1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio	Another place fo	or a designer to gain s	ome points.		
Building score-total value	-				



0

Existing Building Code									
• 1401.6.19 Ind	cide	ntal	Use	Area ·	– St	ер	19 (of 21	
Based on IBC	C Sect	ion 50	09 pro	otection	requ	ire	ment	s	
— Laundry ro	oms					Lau	ndry ro	om &	
– Waste coll	ection	areas				refu	Ise rooi	ms are 1	
Desueling		areas				hou	ır separ	ated &	
- Recycling o	loset					AS	protect	ed	
– Common a	area m	aintena	ance cl	oset	L				
	I	TAB NCIDENTAL	LE 1401.6.1 USE AREA	9 VALUES					
PROTECTION REQUIRED BY TABLE 509 OF	Mana	4 have		PROTECTION P	ROVIDED	-	0.6.000	O house and AO	
2 hours and AS	-4	-3	-2	-2	-1	u AS	-2	0	
2 hours, or 1 hour and AS	-3	-2	-1	-1	0		0	0	
1 hour and AS	-3	-3 -2 -1 -1 0 -1					0		
1 hour	-1	0	-1	-1	0		0	0	
1 hour, or AS with CRS	-1	0	-1	-1	0		0	0	
AS with CRS	-1	-1	-1	-1	0		-1	0	

-1

0

0

0

0

0

Existing Building Code						
SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)			
1401.6.1 Building Height 1401.6.2 Building Area	1 10.5	1 10.5	1 10.5			
1401.6.3 Compartmentation	0	0	0			
1401.6.4 Tenant and Dwelling Unit Separations	0	0	0			
1401.6.5 Consider Walls 1401.6.6 Vertical Openings	0 6.6	0 6.6	0 6.6			
1401.6.7 HVAC Systems	5	5	5			
1401.6.9 Fire Alarm System	2	. 0	0			
1401.6.10 Smoke control	· · · · · · · · · · · · · · · · · · ·	3	3			
1401.6.11 Means of Egress 1401.6.12 Dead ends	****	0	0			
1401.6.13 Maximum Exit Access Travel Distance	***	6.4	6.4			
1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting	2 ****	2	2			
1401.6.16 Mixed Occupancies	0	***	0			
1401.6.17 Automatic Sprinklers	4	4 ÷2 = 2	4			
1401.6.18 Standpipes	0	. 0	0			
1401.6.19 Incidental Use	U	0	0 .			
1401.6.21.1 Patient ability for self-preservation	Laundry room & tra	ash room are 1 hour s	separated &			
1401.6.21.2 Patient concentration	AS protected as expected of a NFPA 13 system.					
Building scoretotal value	We gain nothing for compliance as new.					



1 hour or AS

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Existing Building Code							
SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)				
1401.6.1 Building Height	1	1	1				
1401.6.2 Building Area	10.5	10.5	10.5				
1401.6.3 Compartmentation	0	0	0				
1401.6.4 Tenant and Dwelling Unit Separations	0	0	0				
1401.6.5 Corridor Walls	0	0	0				
1401.6.6 Vertical Openings	6.6	6.6	6.6				
1401.6.7 HVAC Systems	5	5	5				
1401.6.8 Automatic Fire Detection	2	2	2				
1401.6.9 Fire Alarm System	0	0	0				
1401.6.10 Smoke control	***	3	3				
1401.6.11 Means of Egress	***	0	0				
1401.6.12 Dead ends	*	0	0				
1401.6.13 Maximum Exit Access Travel Distance	****	6.4	6.4				
1401.6.14 Elevator Control	2	2	2				
1401.6.15 Means of Egress Emergency Lighting	****	0	0				
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use 1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation	0 4 0 0 N/A	4 ÷ 4 ÷ 4 4 ÷2 = 2 0 N/A	0 4 0 N/A				
1401.0.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio Building score—total value	N/A to groups	other than I-2					





Existing Building Code							
SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)				
1401.6.1 Building Height	1	1	1				
1401.6.2 Building Area	10.5	10.5	10.5				
1401.6.3 Compartmentation	0	0	0				
1401.6.4 Tenant and Dwelling Unit Separations	0	0	0				
1401.6.5 Conidor Walls	0	0	0				
1401.6.6 Vertical Openings	6.6	6.6	6.6				
1401.6.7 HVAC Systems	5	5	5				
1401.6.8 Automatic Fire Detection	2	2	2				
1401.6.9 Fire Alarm System	0	0	0 .				
1401.6.10 Smoke control	* * * *	3	3				
1401.6.11 Means of Egress	* * * *	0	0				
1401.6.12 Dead ends	* * * *	0	0				
1401.6.13 Maximum Exit Access Travel Distance	***	6.4	6.4				
1401.6.14 Elevator Control	2	2	2				
1401.6.15 Means of Egress Emergency Lighting	****	0	0				
1401.6.16 Mixed Occupancies	0	非非常命	0				
1401.6.17 Automatic Sprinklers	4	4÷2 = 2	4				
1401.6.18 Standpipes	0	0	0				
1401.6.19 Incidental Use	0	0	0 .				
1401.6.20 Smoke compartmentation	N/A	N/A N/A	N/A				
1401.6.21.1 Patient ability for self-preservation	****	N/A	N/A				
1401.6.21.2 Patient concentration	****	N/A	N/A				
Building score—total value	Again, per the text - N/A to groups other than I-2						



Existing Building Code						
SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)			
1401.6.1 Building Height 1401.6.2 Building Area 1401.6.3 Compartmentation	1 10.5 0	1 10.5 0	1 10.5 0			
1401.6.4 Tenant and Dwelling Unit Separations 1401.6.5 Conridor Walls 1401.6.6 Vertical Openings	0 0 6.6	0 0 6.6	0 0 6.6			
1401.6.7 HVAC Systems 1401.6.8 Automatic Fire Detection 1401.6.9 Fire Alarm System	5 2 0	5 2 0	5 2 0			
1401.6.10 Smoke control 1401.6.11 Means of Egress 1401.6.12 Dead ends	* * * * *	3 0 0	3 0 0			
1401.6.13 Maximum Exit Access Travel Distance 1401.6.14 Elevator Control 1401.6.15 Means of Egress Emergency Lighting	**** 2 ****	6.4 2 0	6.4 2 0			
1401.6.16 Mixed Occupancies 1401.6.17 Automatic Sprinklers 1401.6.18 Standpipes 1401.6.19 Incidental Use		4 ÷2 = 2 0 0	0 4 0 0			
1401.6.20 Smoke compartmentation 1401.6.21.1 Patient ability for self-preservation 1401.6.21.2 Patient concentration 1401.6.21.3 Attendant-to-patient Ratio	**** **** ****	y it up!	N/A N/A N/A N/A			
Building scoretotal value	31.1	38.5	40.5			











Existing Building Code

- Before we go away.....Resource A
 - Guidelines for Fire Rating of Archaic Assemblies
 - Part I Walls
 - Part II Columns
 - Part III Floor / ceiling assemblies
 - Part IV Beams
 - Part V Doors
- A resource option for use by design engineers
- BO must understand the option









What did I fail to address?



Use of OEDM Training Materials

Use of Office of Education and Data Management (OEDM) training materials must be approved in writing by the State of Connecticut, Department of Administrative Services' Office of Communications. In approving of such use, the State of Connecticut assumes no liability associated with such use, including, but not limited to, the user's dissemination of any inaccurate information or interpretation in connection with its use of these training materials. Use of the training materials is at the sole risk of the user, and the State's approval of the use does not constitute an endorsement of the user or its intended use.



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