	A		В	С	D		E	
1								
		Code Analysis						
		Design Building Codes 2015 International Existing Build 2015 International Building Cod	ding Code (as adopted by New York S le (as adopted by New York State)	State)	An approved auto provisions of this and equipment s detectors, except	comatic fire detection system sha code and NFPA 72. Devices, of shall be approved. The autom t that an approved alternative t	all be installed in accordance with the combinations of devices, appliances, natic fire detectors shall be smoke type of detector shall be installed in	
		2015 International Mechanical C 2015 International Plumbing Co 2015 Energy Conservation Cod 1998 NYSED Manual of Plannir	Lode (as adopted by New York State) ode (as adopted by New York State) le (as adopted by New York State) ng Standards		spaces such as normal operation a 804.4.1 Occupand	in sufficient quantity to actuate a cy Requirements	a smoke detector.	
2		National Electric Code (NEC) National Fire Protection Associa ICC/ANSI A117.1 - 2009 Americ	ation (NFPA) can National Standard Iding Code (as adopted by New Yor	<u>'k State)</u>	A fire alarm syste 804.4.1.7. Existir throughout the bu alarm-notification activated.	Im shall be installed in accordang alarm-notification appliance uilding. Where the building is not appliances within the work area	Ince with Sections 804.4.1.1 through es shall be automatically activated of equipped with a fire alarm system, a shall be provided and automatically	
		Chapter 5 Classification of Work Section 504 Alteration-Level 2			Exceptions: 1. Occupancies v 2. Where selecti automatically activ	with an existing, previously approive notification is permitted, allowated in the areas selected.	oved fire alarm system. arm-notification appliances shall be	
3		Level 2 alterations include the any door or window, the recor of any additional equipment. 504.2 Application	e reconfiguration of space, the additio nfiguration or extension of any system	n or elimination of , or the installation	804.4.1.1 Group E A fire alarm syst required by the In Chapter 11 Additions	∃ tem shall be installed in work ternational Fire Code for existin s	areas of Group E occupancies as g Group E occupancies.	
		Level 2 alterations shall co alterations as well as the prov	omply with the provisions of Chapt isions of Chapter 8.	ter 7 for Level 1	Section 1101 Gene	- eral		
		Chapter 7 Alterations - Level 1			1101.1 Scope An addition to a	building or structure shall com	uply with the International Codes as	
		701.1 Scope Level 1 alterations as describ this chapter. Level 1 alteration	ed in Section 503 shall comply with thons to historic buildings shall comply	ne requirements of with this chapter,	comply with any required by this cl that portion shall o	requirements of those codes hapter. Where an addition impa comply with this code.	or of these provisions, except as acts the existing building or structure,	
4		except as modified in Chapter Section 702 Building Elements 702.1 Interior Finishes	12. and Materials		An addition shall which the addition safety, means of systems.	n Extension of Nonconformity not create or extend any nonc n is being made with regard to of egress, or the capacity of	conformity in the existing building to accessibility, structural strength, fire mechanical, plumbing, or electrical	
		All newly installed interior wal International Building Code. 702.2 Interior Floor Finish New interior floor finish, inc	Il and ceiling finishes shall comply wit	h Chapter 8 of the	1101.3 Other Wor Any repair or alte made shall comp Chapter 5.	rk કration work within an existing b ગy with the applicable require	ouilding to which an addition is being ments for the work as classified in	
		material, shall comply with Se 702.3 Interior Trim	ction 804 of the International Building	Code.	Section 1102 Heigh	nts and Areas		
5		All newly installed interior t International Building Code. 702.6 Materials and Methods	trim materials shall comply with Se	ection 806 of the	1102.1 Height Lim No addition shall under the applica new buildings.	nitations increase the height of an exis able provisions of Chapter 5 of	sting building beyond that permitted f the International Building Code for	
		Mechanical Code, and Inter material standards, detail of continuity of any element, con	International Energy Conservation C national Plumbing Code, as applic installation and connection, joints, nponent, or system in the building.	code, International able, that specify penetrations, and	1102.2 Area Limit No addition shall under the applica new buildings unle provided.	ations I increase the area of an exis able provisions of Chapter 5 of less fire separation as required	sting building beyond that permitted f the International Building Code for by the International Building Code is	
		703.1 General			1102.3 Fire Protec Existing fire area	ction Systems as increased by the addition इ	shall comply with Chapter 9 of the	
6		Alterations shall be done in provided.	a manner that maintains the level	of fire protection	International Build	Jing Code.	New York State)	
		Section 704 Means of Egress			Chapter 3 Use and C	Occupancy Classification		
		704.1 General Alterations shall be done in a for the means of earess	n manner that maintains the level of p	protection provided	Section 305 Educat	tional Group E		
		Section 705 Accessibility			Chapter 5 General B	uilding Heights and Areas		
		705.1 General A facility that is altered shall c	comply with the applicable provisions i	n Sections 705 1 1	Section 504 Build	ing Height and Number of Storie	es	
7		through 705.1.14, and Chap technically infeasible. Where alteration shall provide access	ter 11 of the International Building compliance with this section is technic to the maximum extent that is technic	Code unless it is cally infeasible, the cally feasible.	(Note: see ex Table 504.4 allo (Note: see ex	xisting / proposed building inform wable number of stories above xisting / proposed building inform	nation below) grade plane nation below)	
		Chapter 8 Alterations - Level 2 Section 801 General			Table 506.2 allo	Ing Area owable area factor in square fee	t	
		801.1 Scope	ed in Section 504 abolt comply with the	a requiremente of	(Note: see e>	xisting / proposed building inform	nation below)	
		801.2 Alteration Level 1 Comp In addition to the requirements of Chapter 7	bliance ents of this chapter, all work shall	comply with the	Occupancy Clas Allowable Buildin Existing Building (Note: no propos	ssification: E Ing Height / Stories: 75', Three-s g Height / Stories: 51'-1", Three- sed modification to height / stori	story story, One Basement ies)	
0		803.4 Interior Finish The interior finish of walls an comply with the requirements	nd ceilings in exits and corridors in an of the International Building Code.	ny work area shall	Total allowable a Lower Level (E 1st Floor: 2nd Floor:	area: 130,500 SF 3asement): 7,415 SF (Existing) 7,415 SF (Existing) 7,415 SF (Existing)		
		Section 804 Fire Protection 804.1 Scope			3rd Floor: Total Area:	7,415 SF (Existing) 22,245 SF (Existing) included per 506.1.3) (Note: Basement areas not 3)	
		alterations are being performe floor on which the work areas	edion snall be limited to work areas ed, and where specified they shall ap are located or otherwise beyond the v	iii wnich Level 2 ply throughout the vork area.	Middle Building Occupancy Clas Allowable Building Existing Building	& Classroom Addition (1929 & 2 ssification: E ing Height / Stories Above Grad- g Height / Stories: 57'-1", Four S	2006) - Type of Construction: IB (NS) e: 160', Five-story Story, One Basement	
8		Where an approved automati required fire-resistance rating to be reduced in accordance considered for a corridor ratin	c sprinkler system is installed throug for any corridor located on the story with the International Building Coc g reduction, such system shall provid	hout the story, the shall be permitted de. In order to be e coverage for the	Allowable area p Total allowable a Basement Lower Level	per floor: Unlimited area: Unlimited 6,643 SF (Existing) 28,994 SF (Existing); 1,826 SF (Proposed Addition)	
		stairway landings serving the 804.2 Automatic Sprinkler Svs	tioor and the intermediate landings im stems	mediately below.	1st Floor:	30,820 SF (Total Lo 28,994 SF (Existing 30,820 SF (Total 1s	wer Level)); 1,826 SF (Proposed Addition) :t Floor)	
		Automatic sprinkler systems s Sections 804.2.1 through 80- with the International Building	shall be provided in accordance with the 4.2.5. Installation requirements shall Code.	ne requirements of be in accordance	2nd Floor: 3rd Floor	13,465 SF (Existing) 15,328 SF (Total 2n 8,445 SF (Existing); 10,308 SF (Total 3rc); 1,863 SF (Proposed Addition) d Floor) , 1,863 SF (Proposed Addition) d Floor)	
10		804.2.2 Groups A, B, E, F-1, H In buildings with occupancies S-2, work areas that have ex have exits or corridors servir with automatic sprinkler protect	H, I, M, R-1, R-2, R-4, S-1 and S-2 in Groups A, B, E, F-1, H, I, M, R-1, its or corridors shared by more than ing an occupant load greater than 30 ction where all of the following condition	R-2, R-4, S-1 and one tenant or that shall be provided	Total Area:	79,898 SF (Existing) 87,276 SF (Total) (Note: Basement are); 7,378 SF (Proposed Addition) eas not included per 506.1.3)	
		1. The work area is required accordance with the International and	d to be provided with automatic spri ional Building Code as applicable to	nkler protection in new construction;	Table 601 Fire-resis	stance Rating Requirements Fo	r Building Elements (Hours)	
		2. The work area exceeds 50 Exception: If the building does a fire sprinkler system availa work areas shall be protected	s not have sufficient municipal water s ble to the floor without installation of by an automatic smoke detection and	upply for design of a new fire pump,	Primary structural Bearing walls (Ext Bearing walls (Inte Nonbearing walls	trame: 0 terior): 2 erior): 0 and partitions (Exterior) (Per Ta	able 602):	
11		occupiable spaces other than the occupant notification syste of the International Building C	sleeping units or individual dwelling u em in accordance with Sections 907.4 ode.	units that activates 4, 907.5 and 907.6	X < 5': 1 5' ≤ X < 10': 1 10' ≤ X < 30': 1 X ≥ 30': 0			
		(Note: The work area does <u>r</u> 804.4 Fire Alarm and Detectio An approved fire alarm syster	not exceed 50% of the floor area.) on m shall be installed in accordance wit	h Sections 804.4.1	Nonbearing walls Floor construction Roof construction	and partitions (Interior): 0 and associated secondary mer and associated secondary men	mbers: 0 nbers: 0	
		urrougn 804.4.3. Where autor Section 804.2 and is connec detection shall not be required	nauc sprinkier protection is provided i sted to the building fire alarm syster d.	n accordance with n, automatic heat	ı ype of Constructic Primary structural Bearing walls (Ext Bearing walls (Inte	on: IB(NS) frame: 2 or 1 (where supporting terior): 2 erior): 2 or 1 (where supporting	g a roof only) a roof only)	

	1		1		
G	Н	J	ĸ	L	

Nonbearing walls and partitions (Exterior) (Per Table 602):

Occupancy group: E

X < 5': 1 5' ≤ X < 10': 1

10' ≤ X < 30': 1

X ≥ 30': 0

Nonbearing walls and partitions (Interior): 0

Floor construction and associated secondary members: 2 Roof construction and associated secondary members: 1 or 0 (where every part of

the roof construction is 20 feet or more above any floor immediately below)

Chapter 7 Fire and Smoke Protection Features

Section 703 Fire-Resistance Ratings and Fire Tests

703.2 Fire-Resistance Ratings

The fire-resistance rating of building elements, components or assemblies shall be determined in accordance with the test procedures set forth in ASTM E119 or UL 263 or in accordance with Section 703.3. The fire-resistance rating of penetrations and fire-resistant joint systems shall be determined in accordance Sections 714 and 715, respectively.

703.6 Fire-Resistance-Rated Glazing

Fire-resistance-rated glazing, when tested in accordance with ASTM E119 or UL 263 and complying with the requirements of Section 707, shall be permitted. Fire-resistance-rated glazing shall bear a label marked in accordance with Table 716.3 issued by an agency and shall be permanently identified on the glazing.

Section 705 Exterior Walls

705.5 Fire-Resistance Ratings

Exterior walls shall be fire-resistance-rated in accordance with Tables 601 and 602 and this section. The required fire-resistance rating of exterior walls with a fire separation distance of greater than 10 feet (3048 mm) shall be rated for exposure to fire from the inside. The required fire-resistance rating of exterior walls with a fire separation distance of less than or equal to 10 feet (3048 mm) shall be rated for exposure to fire from both sides.

Table 705.8 Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening Protection

25%

Distance and Degree of Opening Protection					
Fire separation distance (feet): 0	to less than 3				
Unprotected, Nonsprinklered:	Not Permitted				
Unprotected, Sprinklered:	Not Permitted				
Protected:	Not Permitted				
Fire separation distance (feet): 3	to less than 5				
Unprotected, Nonsprinklered:	Not Permitted				
Unprotected, Sprinklered:	15%				

Protected: 15% Fire separation distance (feet): 5 to less than 10 Unprotected, Nonsprinklered: 10%

Unprotected, Sprinklered:

Protected: 25% Fire separation distance (feet): 10 to less than 15 Unprotected, Nonsprinklered: 15%

Unprotected, Sprinklered: 45% Protected: 45% Fire separation distance (feet): 15 to less than 20 Unprotected, Nonsprinklered: 25%

Unprotected, Sprinklered: 75% Protected: 75%

Fire separation distance (feet): 20 to less than 25 Unprotected, Nonsprinklered: 45% Unprotected, Sprinklered: No Limit Protected: No Limit

Fire separation distance (feet): 25 to less than 30 Unprotected, Nonsprinklered: 70% Unprotected, Sprinklered: No Limit Protected: No Limit

Fire separation distance (feet): 30 or greater Unprotected, Nonsprinklered: No Limit Unprotected, Sprinklered: No Limit Protected: No Limit

Section 706 Fire Walls

706.1 General

Each portion of a building separated by one or more fire walls that comply with the provisions of this section shall be considered a separate building. The extent and location of such fire walls shall provide a complete separation. Where a fire wall separates occupancies that are required to be separated by a fire barrier wall, the most restrictive requirements of each separation shall apply.

706.2 Structural Stability

Fire walls shall be designed and constructed to allow collapse of the structure on either side without collapse of the wall under fire conditions. Fire walls designed and constructed in accordance with NFPA 221 shall be deemed to comply with this section.

Table 706.4 Fire Wall Fire-resistance Ratings

Group: E Fire-resistance Rating (hours): 3

706.5 Horizontal Continuity

Fire walls shall be continuous from exterior wall to exterior wall and shall extend not less than 18 inches beyond the exterior surface of exterior walls.

Exceptions:

2. Fire walls shall be permitted to terminate at the interior surface of noncombustible exterior sheathing, exterior siding or other noncombustible exterior finishes provided the sheathing, siding or other exterior noncombustible finish extends a horizontal distance of not less than 4 feet on both sides of the fire wall.

706.5.1 Exterior Walls

Where the fire wall intersects exterior walls, the fire-resistance rating and opening protection of the exterior walls shall comply with one of the following:

1. The exterior walls on both sides of the fire wall shall have a 1-hour fire-resistance rating with 3/4-hour protection where opening protection is required by Section 705.8. The fire-resistance rating of the exterior wall shall extend not less than 4 feet (1220 mm) on each side of the intersection of the fire wall to exterior wall. Exterior wall intersections at fire walls that form an angle equal to or greater than 180 degrees (3.14 rad) do not need exterior wall protection.

706.6 Vertical Continuity

Fire walls shall extend from the foundation to a termination point not less than 30 inches above both adjacent roofs.

Exceptions:

3. Walls shall be permitted to terminate at the underside of noncombustible roof sheathing, deck or slabs where both buildings are provided with not less than a Class B roof covering. Openings in the roof shall not be located within 4 feet of the fire wall. 706.8 Openings

Each opening through a fire wall shall be protected in accordance with Section 716.5 and shall not exceed 156 square feet. The aggregate width of openings at any floor level shall not exceed 25 percent of the length of the wall.

Section 707 Fire Barriers

707.3.1 Shaft Enclosures The fire-resistance rating of the fire barrier separating building areas from a shaft shall comply with Section 713.4.

707.3.4 Exit Passageway

The fire-resistance rating of the fire barrier separating building areas from an exit passageway shall comply with Section 1024.3.

707.3.5 Horizontal Exit

The fire-resistance rating of the separation between building areas connected by a horizontal exit shall comply with Section 1026.1.

707.3.10 Fire Areas

The fire barriers or horizontal assemblies, or both, separating a single occupancy into different fire areas shall have a fire-resistance rating of not less than that indicated in Table 707.3.10. The fire barriers or horizontal assemblies, or both, separating fire areas of mixed occupancies shall have a fire-resistance rating of not less than the highest value indicated in Table 707.3.10 for the occupancies under consideration.

Table 707.3.10 Fire-Resistance Rating Requirements for Fire Barrier Assemblies or Horizontal Assemblies Between Fire Areas Occupancy Group: E

Fire Resistance Rating (hours): 2

707.5 Continuity Fire barriers shall extend from the top of the foundation or floor/ceiling assembly below to the underside of the floor or roof sheathing, slab or deck above and shall be securely attached thereto. Such fire barriers shall be continuous through concealed space, such as the space above a suspended ceiling. Joints and voids at intersections shall comply with Sections 707.8 and 707.9

Openings shall be limited to a maximum aggregate width of 25 percent of the length of the wall, and the maximum area of any single opening shall not exceed 156 square feet. Openings in enclosures for exit access stairways and ramps, interior exit stairways and ramps and exit passageways shall also comply with Sections 1019,

1. Openings shall not be limited to 156 square feet where adjoining floor areas are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

707.7 Penetrations Penetrations of fire barriers shall comply with Section 714.

707.7.1 Prohibited Penetrations

Penetrations into enclosures for exit access stairways and ramps, interior exit stairways and ramps, and exit passageways shall be allowed only where permitted by Sections 1019, 1023.5 and 1024.6, respectively.

707.8 Joints

Joints made in or between fire barriers, and joints made at the intersection of fire barriers with underside of a fire-resistance-rated floor or roof sheathing, slab or deck above, and the exterior vertical wall intersection shall comply with Section 715.

707.10 Ducts and Air Transfer Openings Penetrations in a fire barrier by ducts and air transfer openings shall comply with

Section 717.

Section 708 Fire Partitions

708.1 General

The following wall assemblies shall comply with this section.

3. Corridor walls as required by Section 1020.1. 4. Elevator lobby separation as required by Section 3006.2.

708.4 Continuity

Fire partitions shall extend from the top of the foundation or floor/ceiling assembly below to the underside of the floor or roof sheathing, slab or deck above or to the fire-resistance-rated floor/ceiling or roof/ceiling assembly above, and shall be securely attached thereto. In combustible construction where the fire partitions are not required Table 803.11 Interior Wall and Ceiling to be continuous to the sheathing, deck or slab, the space between the ceiling and the sheathing, deck or slab above shall be fireblocked or draftstopped in accordance with Sections 718.2 and 718.3 at the partition line. The supporting construction shall be protected to afford the required fire-resistance rating of the wall supported, except for walls separating tenant spaces in covered and open mall buildings, walls separating dwelling units, walls separating sleeping units and corridor walls, in buildings of Type IIB, IIIB and VB construction.

708.6 Openings

Openings in a fire partition shall be protected in accordance with Section 716.

708.7 Penetrations Penetrations of fire partitions shall comply with Section 714.

708.8 Joints

Joints made in or between fire partitions shall comply with Section 715.

708.9 Ducts and Air Transfer Openings Penetrations in a fire partition by ducts and air transfer openings shall comply with Section 717.

Section 713 Shaft Enclosures

713.2 Construction

Shaft enclosures shall be constructed as fire barriers in accordance with Section 707 or horizontal assemblies in accordance with Section 711, or both.

713.4 Fire-Resistance Rating

Shaft enclosures shall have a fire-resistance rating of not less than 2 hours where connecting four stories or more, and not less than 1 hour where connecting less than four stories. The number of stories connected by the shaft enclosure shall include any basements but not any mezzanines. Shaft enclosures shall have a fire-resistance rating not less than the floor assembly penetrated, but need not exceed 2 hours. Shaft enclosures shall meet the requirements of Section 703.2.1.

Section 716 Opening Protectives

716.2 Fire-Resistance-Rated Glazing

Fire-resistance-rated glazing tested as part of a fire-resistance-rated wall or floor/ceiling assembly in accordance with ASTM E119 or UL 263 and labeled in accordance with Section 703.6 shall not otherwise be required to comply with this section where used as part of a wall or floor/ceiling assembly. Fire-resistance-rated glazing shall be permitted in fire door and fire window assemblies where tested and installed in accordance with their listings and where in compliance with the requirements of this section.

716.3 Marking Fire-Rated Glazing Assemblies Fire Test Standard: ASTM E119 or UL 263; Marking: W; Definition of Marking: Meets

wall assembly criteria.

Table 716.5 Opening Fire Protection Assemblies, Ratings and Markings

Type of Assembly:

Fire walls and fire barriers having a required fire-resistance rating > 1 hour

Required Wall Assembly Rating (hours): 3 Minimum Fire Door and Fire Shutter Assembly Rating (hours): 3

Door Vision Panel Size: ASTM E119 (maximum size tested) Fire Rated Glazing Marking Door Vision Panel: D-H-W-180

Minimum Sidelight/Transom Assembly Rating (hours): Fire-resistance 3

707.6 Openings Openings in a fire barrier shall be protected in accordance with Section 716. 1023.4 and 1024.5, respectively.

Exceptions:

	L	M	N	0	P		•	
	•	•					Date Checked Drawn	1/10/20 DLF TT
	Fire-Rated Glazing Marking Sidelight Type of Assembly: Fire walls and fire barriers having a Required Wall Assembly Rating (hour Minimum Fire Door and Fire Shutter / Door Vision Panel Size: 100 sq. in. Fire Rated Glazing Marking Door Visi ≤100 sq. in. = D-H-90; >100 sq. in.= Minimum Sidelight/Transom Assembl Fire-Rated Glazing Marking Sidelight/ Type of Assembly: Enclosures for shafts, interior exit st	/Transom Panel: Fire-resistance required fire-resistance rating > rs): 2 Assembly Rating (hours): 1-1/2 ion Panel: = D-H-W-90 ly Rating (hours): Fire-resistance /Transom Panel: Fire-resistance	W-180 1 hour 9 2 W-120	3002.4 Elevator Car to Accommodate Ambulance S Where elevators are provided in buildings four or m stories below, grade plane, not fewer than one elev department emergency access to all floors. The ele and arrangement to accommodate an ambulance s with not less than 5-inch radius corners, in the horiz identified by the international symbol for emergency. The symbol shall be not less than 3 inches (76 mm inside on both sides of the hoistway door frame. Section 3006 Elevator Lobbies and Hoistway Openin 3006.2 Hoistway Opening Protection Required Elevator hoistway door openings shall be protected 3006.3 where an elevator hoistway connects more	Stretcher hore stories above, or four or more vator shall be provided for fire evator car shall be of such a size stretcher 24 inches by 84 inches zontal, open position and shall be y medical services (star of life).) in height and shall be placed og Protection		ERN, R.A.	vo. 022257-1
	Required Wall Assembly Rating (hour Minimum Fire Door and Fire Shutter A Door Vision Panel Size: 100 sq. in. Fire Rated Glazing Marking Door Visi ≤100 sq. in. = D-H-90; > 100 sq. in. Minimum Sidelight/Transom Assembl Fire-Rated Glazing Marking Sidelight	rs): 2 Assembly Rating (hours): 1-1/2 ion Panel: = D-H-T-W-90 ly Rating (hours): Fire-resistance /Transom Panel: Fire-resistance	≥2 ₩-120	 enclosed within a shaft enclosure in accordance with following conditions apply: 1. The building is not protected throughout with accordance with Section 903.3.1.1 or 903.3.1.2. 3006.3 Hoistway Opening Protection 	th Section 712.1.1 and any of the an automatic sprinkler system in		NcGOVE	License
	Type of Assembly: Fire barriers having a required fire-r shafts, exit access stairways, exit ac exit ramps; and exit passageway wa Required Wall Assembly Rating (hour Minimum Fire Door and Fire Shutter / Door Vision Panel Size: 100 sq. in. (e Fire Rated Glazing Marking Door Visi ≤100 sq. in. = D-H-60; >100 sq. in.= Minimum Sidelinbt/Transom Assembl	resistance rating of 1 hour: Enclo ccess ramps, interior exit stairwa alls rs): 1 Assembly Rating (hours): 1 except with automatic sprinkler s ion Panel: = D-H-T-W-60 IV Rating (hours): Eire-resistance	ystem)	 Where Section 3006.2 requires protection of the eleptotection shall be provided by one of the following: 1. An enclosed elevator lobby shall be provided at hoistway shaft enclosure doors from each floor by Section 708. In addition, doors protecting opening walls shall comply with Section 716.5.3 as required the enclosed elevator lobby by ducts and air trans required for corridors in accordance with Section 71 3006.4 Means of Egress 	evator hoistway door opening, the each floor to separate the elevator y fire partitions in accordance with gs in the elevator lobby enclosure d for corridor walls. Penetrations of sfer openings shall be protected as 17.5.4.1.		MICHAEL J. I	tie REGISTERED ARCHITECT
	Fire-Rated Glazing Marking Sidelight Type of Assembly: Fire partitions: Co Required Wall Assembly Rating (hour Minimum Fire Door and Fire Shutter / Door Vision Panel Size: Maximum siz	/Transom Panel: Fire-resistance prridor walls rs): 1 Assembly Rating (hours): 1/3 ze tested	₩-60	Elevator lobbies shall be provided with at least one Chapter 10 and other provisions in this code. Egres be permitted in accordance with Item 1 of Section 1 Chapter 33 Safeguards During Construction	means of egress complying with ss through an elevator lobby shall 016.2.			F I I
	Fire Rated Glazing Marking Door Visi Minimum Sidelight/Transom Assembl Fire Protection 3/4 (or ASTM E119) Fire-Rated Glazing Marking Sidelight/ Type of Assembly: Exterior walls Required Wall Assembly Rating (bou	ion Panel: D-20 ly Rating (hours): maximum size tested) /Transom Panel: D-H-OH-45 rs): 2		Section 3302 Construction Safeguards 3302.1 Alterations, Repairs and Additions Required exits, existing structural elements, fire pro safeguards shall be maintained at all times during a any building or structure.	otection devices and sanitary alterations, repairs or additions to			
	Minimum Fire Door and Fire Shutter / Door Vision Panel Size: 100 sq. in. (o Fire Rated Glazing Marking Door Visi ≤100 sq. in. = D-H-90; >100 sq. in.= Minimum Sidelight/Transom Assembl Fire-Rated Glazing Marking Sidelight/	Assembly Rating (hours): 1-1/2 or ASTM E119 maximum size tes ion Panel: = D-H-W-90 ly Rating (hours): Fire-resistance /Transom Panel: Fire-resistance	sted) ∋ 2 W-120	Exceptions: 1. Where such required elements or devices are to substitute provisions shall be made. 2. Maintenance of such elements and devices in building is not occupied.	being altered or repaired, adequate is not required when the existing			
7 A s p T	16.5.8.2 Elevator, Stairway and Ramp opproved fire-protection-rated glazing tairway and ramp enclosures shall be assageway or approach to the elevato	p Protectives used in fire door assemblies in e so located as to furnish clear vis or, stairway or ramp. re Protection Ratings	elevator, sion of the	Waste materials shall be removed in a manner that persons, adjoining properties and public rights-of-w 3302.3 Fire Safety During Construction Fire safety during construction shall comply with the code and the applicable provisions of Chapter 33 o	t prevents injury or damage to ay. e applicable requirements of this f the International Fire Code.			
I	Type of Wall Assembly: Exterior walls Required Wall Assembly Rating (hour Minimum Fire Window Assembly Rati Fire-rated Glazing Marking: OH-90 or assembly rating)	rs): >1 ing (hours): 1-1/2 r W-XXX (Fire rating in minutes e	equal to wall	2015 International Energy Conservation Code (as a Chapter 3 [CE] General Requirements Table C301.1 Climate Zones. Moisture Regimes, a	adopted by New York State) nd Warm-humid Designations by		UNAUTHORIZE ADDITIONS TO A VIOLATION O THE NEW YOR LAW. THESE L THE EXCLUSIVE	ED ALTERATIONS OR THIS DOCUMENT IS FF SECTION 7209 OF FK STATE EDUCATION DOCUMENTS REMAIN E PROPERTY OF THE
<u>Cha</u>	pter 8 Interior Finishes			State, County and Territory			ENGINEER, AND FOR ANY PUR WITHOUT THE	d may not be used RPOSE Whatsoever Written Consent
8 T d	01.2 Interior Wall and Ceiling Finish he provisions of Section 803 shall lim evelopment of interior wall and ceiling	it the allowable fire performance g finish materials based on occup	and smoke bancy	New York - 4A Westchester Chapter 4 [CE] Commercial Energy Efficiency			OF TH	
Se	ction 803 Wall and Ceiling Finishes			C401.2 Application Commercial buildings shall comply with one of the f	following compliance paths:			∋yin
T	able 803.11 Interior Wall and Ceiling	Finish Requirements by Occupa	ncy	2. Prescriptive Compliance Path: The requirement In addition, commercial buildings shall comply with shall comply with Section C406.1.1	ts of Sections C402 through C405. n Section C406 and tenant spaces		₽	, SUrvé 45)615-
lr C F	nterior exit stairways and ramps and e Corridors and enclosure for exit access Rooms and enclosed spaces:	exit passageways: B s stairways and ramps: C C		Table C402.1.3 Opaque Thermal Envelope Insulati Requirements, R-value Method	on Component Minimum			cture ● 0924 (8
C Ir C F	Group E (Nonsprinklered) Interior exit stairways and ramps and e Corridors and enclosure for exit access Rooms and enclosed spaces:	exit passageways: A s stairways and ramps: B C		Climate Zone: 4 Except Marine - Group E Roofs: Insulation entirely above roo Walls, above grade: Mass Walls, below grade: Below-grade wall Slab-on-grade floors: Unheated slabs	f deck R-30ci R-9.5ci R-7.5ci R-10 for 24" below		00S	 archited NEW YORK 1
8 F n fl a U	05.1.1 Subfloor Construction floor sleepers, bucks and nailing block naterials, unless the space between th ooring is either solidly filled with nonco accordance with Section 718, and prov nder or through permanent partitions pter 9 Fire Protection Systems	ks shall not be constructed of cor ne fire-resistance rated floor asso ombustible materials or fireblock vided that such open spaces sha or walls.	nbustible embly and the red in Il not extend	C402.2.5 Slabs-on-grade perimeter insulation Where the slab on grade is in contact with the groun (R-value) of the insulation around the perimeter of floors designed in accordance with the R-value meth specified in Table C402.1.3. The insulation shall foundation or on the inside of the foundation wall. Th from the top of the slab for a minimum distance as the footing, whichever is less, or downward to at lead horizontally to the interior or exterior for the total dist extending away from the building shall be protected	id, the minimum thermal resistance unheated or heated slab-on-grade nod of Section C402.1.3 shall be as be placed on the outside of the e insulation shall extend downward shown in the table or to the top of ast the bottom of the slab and then tance shown in the table. Insulation by pavement or by not less than of		AN AS	ering e planning NN STREET, GOSHEN,
Se 9 V ti c 7 a	ction 901 General 01.7 Fire Areas Vhere buildings, or portions thereof, at he limits established for requiring a fire hapter, such fire areas shall be separa vith Section 707 or horizontal assembl 11, or both, having a fire-resistance ra ccordance with Section 707.3.10.	re divided into fire areas so as n e protection system in accordanc ated by fire barriers constructed lies constructed in accordance w ating of not less than that determ	ot to exceed ce with this in accordance vith Section hined in	To inches (254 mm) of soil. Exception: Where the slab-on-grade floor is greater finished exterior grade, perimeter insulation is not red Table C402.4 Building Envelope Fenestration Requirements Climate Zone: 4	than 24 inches (61 mm) below the quired. Maximum U-factor and SHGC	30		L T 543 252 M
Se	ction 903 Automatic Sprinkler System	IS		Vertical Fenestration - U-factor Fixed fenestration: 0.38		ÿ		ЧОО . TRIC Y 1С
9 4 1 2 d	03.2.3 Group E An automatic sprinkler system shall be . Throughout all Group E fire areas g 2. Throughout every portion of educa lischarge serving that portion of the bu	e provided for Group E occupanc greater than 12,000 square feet in ational buildings below the lowe uilding.	ies as follows: n area. est level of exit	Operable fenestration: 0.45 Entrance doors: 0.77 Vertical Fenestration - SHGCPF < 0.2 : 0.40 $0.2 \le PF < 0.5$: 0.48 PF ≥ 0.5 : 0.64		3-0-004	YSIS	KENDUM VENTARY SCH SCHOOL DIST AARONECK, N
	(Note: MAS (Original) Building 1909 - Fully Sprinklered (Only above stage of Addition - Not Sprinklered; - Fire area do not require an automatic sprinkler	- Fully Sprinklered; Middle Buildi of Multi-Purpose Room); 2006 C as of the additions are less than system)	ng 1929 - Not lassroom 12,000 SF and	Chapter 5 [CE] Existing Buildings Section C502 Additions		7-01-0		NU REFE NUE ELEI NU FREE NUE, MAN
<u>Cha</u>	pter 10 Means of Egress			Additions to an existing building, building system or p	portion thereof shall conform to the	0.0		AVE. JNIC AVE.
(N	ote: See Egress Plans for code analys	sis of this chapter.)		the unaltered portion of the existing building or buil	new construction without requiring ng system to comply with this	; <u>6</u> (ၓ	СК СК ЕСК
<u>Cha</u>	pter 30 Elevators and Conveying Syst	tems		building systems. An addition shall be deemed to cor alone complies or if the existing building and addition	mply with this code if the addition			ZONE ONE
Se	ction 3002 Hoistway Enclosures			building. Additions shall comply with Section C502.2.				AMAF 1MAR VAMA
3 E c	002.1 Hoistway Enclosure Protection Elevator, dumbwaiter and other hoistwa omplying with Section 713.	ay enclosures shall be shaft enc	losures			ROJ	Ш	M/ M/ 850 A
3 A e n E	002.3 Emergency Signs on approved pictorial sign of a standar elevator call station on all floors instruct ot to use the elevators in case of fire. ELEVATORS ARE OUT OF SERVICE	rdized design shall be posted ad cting occupants to use the exit st The sign shall read: IN CASE O USE EXIT STAIRS.	jacent to each airways and F FIRE,			SED P	Job No. 4.1 File No. 109	092.72.2 927203CA001