



## CODE ANALYSIS - TYPICAL DECA COMMISSARY FACILITY

CODE ANALYZED : **UNIFIED FACILITIES CRITERIA UFC 1-200-01, 27 NOV 2007**

NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
1	<b>STRUCTURE OF ANALYSIS</b>	<p>MODEL CODES REFERENCED AS PART OF UFC 1-200-01, NOV 2007 ANALYSIS INCLUDE:</p> <ul style="list-style-type: none"> <li>- UFC 3-600-01 26 SEP 2007 (REFERENCED AS UFC)</li> <li>- IBC 2006 (REFERENCED AS IBC)</li> <li>- IBC 2006 COMMENTARY PAGE NUMBER PREFIXED WITH "C" (i.e., C7-124)</li> <li>- NFPA 101, 2006 (REFERENCED AS NFPA)</li> <li>- Architectural Barriers Act, July 23, 2004 &amp; as amended August 5, 2005; Chapters 1-2 &amp; Chapters 3-10. ( REF. AS ABA)</li> </ul> <p>REFERENCES INDICATED WITHOUT A PREFIX ARE FOR UFC 1-200-01</p> <p><b><i>CONCLUSIONS AND NOTES TO THE DESIGNER ARE SHOWN IN BOLD AND ITALICIZED FONT</i></b></p>	1-2	1
2	ABSENCE OF CRITERIA	WHEN A SPECIFIC APPLICATION IS NOT COVERED BY THE CRITERIA SPECIFIED IN THE UFC, FOLLOW NATIONAL BUILDING CODES, RECOGNIZED INDUSTRY STANDARDS, AND STANDARD ENGINEERING PRACTICES. IN THE ABSENCE OF SUCH TECHNICAL INFORMATION, CONTACT THE DoD COMPONENT AUTHORITY HAVING JURISDICTION (AHJ)	UFC 1-3	4
2.1	CONFLICTS IN CRITERIA	IF CONFLICT EXISTS BETWEEN THE UFC AND ANY OTHER DoD DOCUMENT, REFERENCED CODE, STANDARD OR PUBLICATION THEN THE UFC TAKES PRECEDENCE	UFC 1-5	5
2.2	ANTITERRORISM / FORCE PROTECTION	ANTITERRORISM / FORCE PROTECTION REQUIREMENTS MUST NOT PRECLUDE ANY FIRE PROTECTION REQUIREMENTS	UFC 1-4	6
2.3	DESIGN ANALYSIS	FIRE PROTECTION DESIGN ANALYSIS IS REQUIRED	UFC 1-4	6
2.4	BASIC CRITERIA	FIRE RESISTANCE REQUIREMENTS, ALLOWABLE FLOOR AREA, BUILDING HEIGHT LIMITATIONS, AND SEPARATION DISTANCE REQUIREMENTS SHALL CONFORM TO IBC	UFC 2-1	9

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
3	USE AND OCCUPANCY CLASSIFICATION	USE CH. 3 OF IBC AND UFC 3-600-01. IF ANY CONFLICTS OCCUR, THE REQUIREMENTS OF UFC 3-600-01 TAKE PRECEDENCE	2-3	3
3.1	"CONSTRUCTION" OCCUPANCY CLASSIFICATION	STRUCTURES OR PORTIONS OF STRUCTURES SHALL BE CLASSIFIED WITH RESPECT TO OCCUPANCY GROUPS LISTED BELOW. STRUCTURES WITH MULTIPLE OCCUPANCIES OR USES SHALL COMPLY WITH SECTION 508	IBC 302.1	23
		THE FOLLOWING OCCUPANCIES ARE PART OF OUR COMMISSARY:		
		GROUP "M" - MERCANTILE ( SALES AREAS ) display and sales of merchandise I.e. markets	IBC 309	34
		GROUP "B" - BUSINESS ( OFFICE AREAS ) office . . . including storage of records	IBC 304	24
		GROUP "S-1" - STORAGE ( MODERATE HAZARD ) storage of bags, cardboard and cardboard boxes, grains, soaps, sugar, tobacco	IBC 311.2	35
		GROUP "S-2" - STORAGE ( LOW HAZARD ) storage of non-combustible materials as products on wood pallets or in paper cartons, I.e. food products, fresh fruits & vegetables, etc. <b>NO REASON TO INCLUDE THIS USE SINCE MORE RESTRICTIVE USE S-1 IS ALREADY INCLUDED</b>	IBC 311.3	35
		GROUP " F-1 " - FACTORY ( MODERATE HAZARD ) food processing areas . . . meat and produce	IBC 306.2	24
3.2	MIXED OCCUPANCIES	EACH PORTION OF A BUILDING SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1	IBC 508.3	81 C5-27
		WHERE A BUILDING CONTAINS MORE THAN ONE OCCUPANCY GROUP, THE BUILDING OR PORTION THEREOF SHALL COMPLY WITH SECTIONS 508.3.1 (ACCESSORY OCCUPANCIES), 508.3.2 (NONSEPARATED OCCUPANCIES), 508.3.3 (SEPARATED OCCUPANCIES) OR A COMBINATION OF THESE SECTIONS.		
3.3	MAIN OCCUPANCIES	<b>DeCA COMMISSARIES SHALL BE LISTED AS A MIXED-USE OCCUPANCY WITH PRIMARY USES OF : M-MERCANTILE AND S-1 STORAGE - MODERATE HAZARD</b>		
3.4	ACCESSORY OCCUPANCIES	... OCCUPANCIES TO THE MAIN OCCUPANCY OF THE BUILDING OR PORTION THEREOF. AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE AREA OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED VALUES IN TABLE 503 ...	IBC 508.3.1	81

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
		<b>OFFICE AREAS ( B ) BUSINESS USE AND WORK ROOMS ( F-1 ) FACTORY ( MODERATE HAZARD ) ARE TYPICALLY EACH LESS THAN 10% OF FLOOR AREA SO CONSIDERED ACCESSORY USE - IF GREATER THAN 10% FLOOR AREA THEN ADD TO MAIN USE</b>		
3.5	INCIDENTAL USE AREAS	SPACES/ AREAS WHICH ARE INCIDENTAL TO THE MAIN OCCUPANCY SHALL BE SEPARATED OR PROTECTED IN ACCORDANCE WITH TABLE 508.2 AND SHALL BE CLASSIFIED IN ACCORDANCE WITH THE MAIN OCCUPANCY OF THE PORTION OF THE BUILDING IN WHICH THE INCIDENTAL USE AREA IS LOCATED	IBC 508.2	80 C5-25
		TYP. DeCA COMMISSARY INCIDENTAL USE AREAS :	IBC Table 508.2	80 C5-26
		FURNACE ROOM WHERE LARGEST PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT - REQUIRES ONE HOUR SEPARATION OR PROVIDE AUTOMATIC FIRE-EXTINGUISHING SYSTEM	IBC Table 508.2	80 C5-26
		BOILERS OVER 15 PSI AND 10 HORSEPOWER - REQUIRES ONE HOUR SEPARATION OR PROVIDE AUTOMATIC FIRE-EXTINGUISHING SYSTEM	IBC Table 508.2	80 C5-26
		REFRIGERANT MACHINERY ROOMS - REQUIRES ONE HOUR SEPARATION OR PROVIDE AUTOMATIC SPRINKLER SYSTEM	IBC Table 508.2	80 C5-26
		STORAGE ROOMS OVER 100 SQUARE FEET	IBC Table 508.2	80 C5-26
		<b>NOTE: STORAGE ROOMS OVER 100 S.F. WOULD NOT BE INCIDENTAL USE SINCE ALREADY CLASSIFIED AS A MIXED USE BLDG OF WHICH STORAGE IS A MAIN USE</b>	& IBC 508.2.1	
		NEW DeCA COMMISSARY CONSTRUCTION IS REQUIRED TO BE FIRE SPRINKLERED - SO NO FIRE RATING REQUIRED		
		WHERE TABLE 508.2 PERMITS AN AUTOMATIC FIRE-EXTINGUISHING SYSTEM WITHOUT A FIRE BARRIER, THE INCIDENTAL USE AREA SHALL BE SEPARATED BY CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE. THE PARTITIONS SHALL EXTEND FROM THE FLOOR TO THE UNDERSIDE OF THE FIRE-RESISTANCE-RATED FLOOR/CEILING ASSEMBLY OR TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. DOORS SHALL BE SELF-CLOSING OR AUTOMATIC CLOSING UPON DETECTION OF SMOKE. DOORS SHALL NOT HAVE AIR TRANSFER OPENINGS AND SHALL NOT BE UNDERCUT IN EXCESS OF CLEARANCE PERMITTED IN ACCORDANCE WITH NFPA 80	IBC 508.2.2.1	80
		<b>SMOKE PARTITIONS ( AND ASSOCIATED DOORS ) ARE REQUIRED AT INCIDENTAL USE AREAS, LISTED ABOVE ,WHERE FIRE SPRINKLERS ARE PROVIDED</b>		

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
3.6	SEPARATED OCCUPANCIES	EACH PORTION OF THE BUILDING SHALL BE INDIVIDUALLY CLASSIFIED AS TO USE AND SHALL BE COMPLETELY SEPARATED FROM ADJACENT AREAS BY FIRE BARRIER WALLS OR HORIZONTAL ASSEMBLIES OR BOTH HAVING A FIRE-RESISTANCE RATING DETERMINED IN ACCORDANCE WITH TABLE 508.3.3 FOR THE USES BEING SEPARATED...	IBC 508.3.3	82 C5-32
		NO SEPARATION REQUIRED BETWEEN M AND S-1 MAIN OCCUPANCIES ( B AND F-1 OCCUPANCIES AS WELL IF THESE ARE OVER 10% FLOOR AREA AND THEREFORE A MAIN OCCUPANCY )	Table 508.3.3.	81
		<b>TYP. COMMISSARY WOULD MEET SEPARATED OCCUPANCY CODE CRITERIA BUT SUGGEST CLASSIFYING AS A NONSEPARATED TO CLARIFY THAT NO SEPARATION BETWEEN USES ARE REQUIRED</b>		
3.7	NONSEPARATED OCCUPANCIES	EACH PORTION OF THE BUILDING SHALL BE INDIVIDUALLY CLASSIFIED AS TO USE. THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING. OTHER CODE REQUIREMENTS SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE USE OF THAT SPACE EXCEPT THE MOST RESTRICTIVE APPLICABLE PROVISIONS OF SECTION 403 AND CHAPTER 9 SHALL APPLY TO THESE NON-SEPARATED USES. FIRE SEPARATIONS ARE NOT REQUIRED BETWEEN USES, EXCEPT AS REQUIRED BY OTHER PROVISIONS.	IBC 508.3.2	81 C5-30
		THEREFORE, TYPICAL DeCA COMMISSARY OCCUPANCY CLASSIFICATION IS : <b>NONSEPARATED, MIXED OCCUPANCY "M" MERCANTILE AND "S-1" STORAGE ( MODERATE HAZARD )</b>		
4	<b>SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY</b>	USE UFC 3-600-01 IN LIEU OF IBC CHAPTER 4  EXCEPT REFER TO UFC-3-600-01 FOR LIMITATIONS REGARDING THE USE OF TABLE 503	2-4	2
4.1	COMBUSTIBLE STORAGE	LIMITATIONS ON COMBUSTIBLE STORAGE : HIGH PILED STOCK OR RACK STORAGE (IN EXCESS OF 12 FEET) SHALL COMPLY WITH UFC 3-600-01 AND NFPA 13.  <b>NO NEED TO FOLLOW SINCE DeCA DESIGN CRITERIA DOES NOT ALLOW RACK STORAGE IN EXCESS OF 12' HIGH - SO PROVIDE PAINTED WALL SIGNS ON EACH WALL ( OF HIGH CEILING STORAGE ROOMS AND RECEIVING AREA ) , AND AT 50' MAX. SPACING ON LONG WALLS, PROHIBITING STORAGE ABOVE 12' HEIGHT</b>		

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5	<b>GENERAL BUILDING HEIGHT AND AREAS</b>	USE CH. 5 OF IBC, EXCEPT REFER TO UFC-3-600-01 FOR LIMITATIONS REGARDING THE USE OF TABLE 503	2-5	2
5.1	DEFINITION OF BUILDING AREA	BUILDING AREA IS THAT AREA INCLUDED WITHIN SURROUNDING EXTERIOR WALLS AND AREAS WITHIN THE HORIZONTAL PROJECTION OF THE ROOF OR FLOOR ABOVE.	IBC 502.1	75 C5-2
5.2	HEIGHT AND AREA LIMITATIONS	THE HEIGHT AND AREA FOR BUILDINGS OF DIFFERENT CONSTRUCTION TYPES SHALL BE GOVERNED BY THE INTENDED USE AND SHALL NOT EXCEED THE LIMITS IN TABLE 503 EXCEPT AS MODIFIED HEREAFTER ...	IBC 503.1	75 C5-26
		<b>ASSUME A TYPE II B CONSTRUCTION FOR TABLE 503</b>		
		GROUP "M" - MERCANTILE 4 STORIES OR <u>55 FEET</u> AND <u>12,500 SF</u>	IBC Table 503	76
		GROUP "B" - BUSINESS ( <i>NOT TYPICALLY A MAIN OCCUPANCY</i> ) 4 STORIES OR 55 FEET AND 23,000 SF	IBC Table 503	76
		GROUP "S-1" - STORAGE <u>3 STORIES</u> OR 55 FEET AND 17,500 SF	IBC Table 503	76
		GROUP "F-1" - FACTORY ( <i>NOT TYPICALLY A MAIN OCCUPANCY</i> ) 2 STORIES OR 55 FEET AND 15,500 SF	IBC Table 503	76
		PER MIXED OCCUPANCY REQUIREMENTS, COMMISSARY MUST MEET MOST STRINGENT REQUIREMENTS OF HEIGHT AND AREA OF ALL THE <u>MAIN</u> OCCUPANCIES.	IBC 508.3.2	81 C5-30
		MAXIMUMS FROM ABOVE: 55' HEIGHT, 3 STORIES		
5.3	HT. AND STORY INCREASES	BUILDINGS PROTECTED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEM THE MAXIMUM HEIGHT MAY BE INCREASED BY 20 FEET AND MAXIMUM NUMBER OF STORIES INCREASED BY ONE STORY	IBC 504.2	77 C5-10
		<b>75' MAX. HT. AND 4 STORIES</b>		
		<b>NOTE: UNLIMITED AREA BUILDINGS ARE LIMITED TO 2 STORIES - SEE BELOW</b>		
5.4	ALLOWABLE AREA CALCULATIONS	12,500 S.F. ALLOWABLE AREA ( MERCANTILE ) BASE AREA. PRIOR TO MODIFICATIONS	IBC Table 503 & 506.4.1	76 79
5.4	AREA MODIFICATIONS	AREA LIMITS OF TABLE 503 SHALL BE INCREASED DUE TO FRONTAGE (If) AND AUTOMATIC SPRINKLER PROTECTION (Is) PER THE FOLLOWING FORMULA	IBC 506.1	78
		$A_a = \{ A_t + [ A_t \times I_f ] + [ A_t \times I_s ] \}$ ( Equation 5-1 )		

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		<p>Aa = ALLOWABLE AREA                      At = AREA OF MOST RESTRICTIVE OCCUPANCY =                      MERCANTILE = 12,500 S.F.                      Is = INCREASE DUE TO INCLUSION OF FIRE SPRINKLER                      = 3 ( 1 STORY BLDG OR AIR FORCE FACILITY( PER -                      UFC 3-600-01) OR                      = 2 ( 2 STORY BLDG ) OR                      = 0 IF NOT SPRINKLERED</p>	UFC 2-1.4	8
		If = INCREASE DUE TO BUILDING FRONTAGE		
		If = [ F / P - 0.25 ] x W / 30 (Equation 5-2)	IBC 506.2	78
		<p>F = BLDG FRONTAGE THAT FRONTS ON PUBLIC WAY ( IN FEET )                      P = TOTAL BUILDING PERIMETER ( IN FEET )                      W = WIDTH OF PUBLIC WAY ( IN FEET ) ( MAY NEED TO AVERAGE ) - PER 506.2.1</p>		
		<p><b>DESIGNER MUST CALC AREA TO VERIFY THAT COMMISSARY MEETS ( ALLOWABLE AREA ) Aa . IF AREA IS IN EXCESS OF ALLOWABLE AREA THEN MUST CLASSIFY AS AN UNLIMITED AREA BUILDING AND MEET THOSE REQUIREMENTS</b></p>		
		<p><b>NOTE : MOST COMMISSARIES OVER 46,875 S.F. AND ALL COMMISSARIES OVER 59,375 S.F. WILL NOT MEET ALLOWABLE AREAS AND THEREFORE NEED TO BE CLASSIFIED AS UNLIMITED AREA BUILDINGS</b></p>		
5.5	UNLIMITED AREA BUILDING	1-STORY BUILDINGS ALLOWED TO BE UNLIMITED IN AREA IF EQUIPPED WITH AUTO SPRINKLER AND PER IBC 507.3 AND INCLUDING A 60' CLEAR, OPEN AREA AROUND BUILDING	IBC 507.3	79
		2-STORY BUILDINGS ALLOWED TO BE UNLIMITED IN AREA IF EQUIPPED WITH AUTO SPRINKLER AND PER IBC 507.4 INCLUDING A 60' CLEAR, OPEN AREA AROUND BUILDING	IBC 507.4	79
		REQUIRED 60' OPEN SPACE MAY BE REDUCED TO 40' FOR UP TO 75% OF BUILDING PERIMETER IF PROVIDE 3 HOUR CONSTRUCTION AND OPENING PROTECTION AT CONSTRUCTION FACING THE REDUCED SPACE	507.5	79
		SEPARATION BETWEEN BUILDINGS : USE IBC TO DETERMINE REQUIRED SEPARATION DISTANCES	UFC 2-1.4	9
		<p><b>TYPICAL DeCA COMMISSARIES ARE UNLIMITED AREA BUILDINGS. IF SITE CANNOT ACCOMMODATE OPEN AREA REQUIREMENTS THEN BUILDING IS NON-COMPLIANT AND DESIGNER MUST RECEIVE WRITTEN APPROVAL OF NON-COMPLIANCE FROM AHJ ( AUTHORITY HAVING JURISDICTION)</b></p>		

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
5.6	MEZZANINES	<p>... SHALL BE CONSIDERED A PORTION OF THE STORY BELOW. SUCH MEZZANINES SHALL NOT CONTRIBUTE TO EITHER THE BUILDING AREA OR THE NUMBER OF STORIES</p> <p>AGGREGATE AREA OF MEZZANINE(S) WITHIN A ROOM SHALL NOT EXCEED ONE-HALF OF THE ROOM OR SPACE IN WHICH THEY ARE LOCATED IF EQUIPPED THROUGHOUT WITH A SPRINKLER SYSTEM AND AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM</p> <p><b>THERE IS FURTHER DEFINITION OF A MEZZANINE IN THE IBC COMMENTARY</b></p> <p>MEZZANINE SHALL BE OPEN AND UNOBSTRUCTED TO THE ROOM IN WHICH SUCH MEZZANINE IS LOCATED EXCEPT FOR WALLS NOT MORE THAN 42" HIGH, COLUMNS AND POSTS.</p> <p>EXCEPTIONS:</p> <p>1. MEZZANINE AREA ENCLOSED BY AN OCCUPANT LOAD OF NOT MORE THAN 10 . ( FOR EXAMPLE, CAN ENCLOSE A MECHANICAL AREA OF UP TO 3,000 S.F WITH AN OCCUPANT LOAD OF 1/300 = 10 )</p> <p>2. MEZZANINE AREAS NOT EXCEEDING 10% OF THE TOTAL MEZZANINE AREA <b>EXCEPTION 1 &amp; 2 ABOVE ADDRESS ROOM SIZE AND ENCLOSURE - SO IBC CODE GOVERNS. EXCEPTION 3, BELOW, ADDRESS EXITING FROM A MEZZANINE SO NFPA 101 GOVERNS.</b></p> <p>3. A MEZZANINE WITH 2 OR MORE MEANS OF EGRESS MAY BE ENCLOSED PROVIDED AT LEAST ONE OF THE MEANS OF EGRESS PROVIDES DIRECT ACCESS FROM THE ENCLOSED AREA TO AN EXIT AT THE MEZZANINE LEVEL. ( THE EXIT MUST BE CONTINUOUS TO THE EXTERIOR )</p> <p><b>TYPICALLY, MEZZANINE STAIRS DO NOT NEED TO BE RATED OR ENCLOSED BUT THIS EXCEPTION REQUIRES AT LEAST ONE STAIR BE A 1-HOUR EXIT STAIR ( ENCLOSURE ) SIMILAR TO THE STAIRWELL FROM A SECOND STORY.</b></p>	<p>IBC 505.1</p> <p>IBC 505.2.2</p> <p>IBC 505.4</p> <p>NFPA 101 8.6.9.3.2</p>	<p>77 C5-11</p> <p>77 C5-11</p> <p>77 C5-11</p> <p>101-83</p>
5.61	DEFINITION AND LIMITS	<p>AGGREGATE AREA OF MEZZANINE(S) WITHIN A ROOM SHALL NOT EXCEED ONE-HALF OF THE ROOM OR SPACE IN WHICH THEY ARE LOCATED IF EQUIPPED THROUGHOUT WITH A SPRINKLER SYSTEM AND AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM</p> <p><b>IBC COMMENTARY BETTER DEFINES MEZZANINE. DESIGNER MUST DETERMINE IF AN AREA IS A MEZZANINE OR A SECOND FLOOR. THE STAIR(S) FROM A SECOND FLOOR ROOM WILL REQUIRES A 1-HR RATED EXIT ENCLOSURE OUT TO THE EXTERIOR ( OR ENCLOSED LOBBY - NOT TYP. IN COMMISSARIES)</b></p>	IBC 505.5.2	77 C5-11

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5.62	ENCLOSURE REQ'S	MEZZANINE SHALL BE OPEN AND UNOBSTRUCTED TO THE ROOM IN WHICH MEZZANINE IS LOCATED EXCEPTIONS: 1. MAY BE ENCLOSED IF OCCUPANT LOAD OF ENCLOSED MEZZANINE SPACE DOES NOT EXCEED 10 2. MEZZANINE HAS TWO OR MORE MEANS OF EGRESS WITH ONE PROVIDING DIRECT ACCESS TO AN EXIT FROM THE MEZZANINE. 3. AGGREGATE FLOOR AREA OF ENCLOSED SPACE DOES NOT EXCEED 10% OF MEZZANINE AREA  <b>USING EXCEPTION NO. 1, AREA OF ENCLOSED MECHANICAL EQUIPMENT MEZZANINE CANNOT EXCEED 3.000 S.F. ( STORAGE AREA OCCUPANT LOAD OF 1/300 )</b>	IBC 505.4	77 C5-13
5.63	MEZZANINE MEANS OF EGRESS	TWO INDEPENDENT MEANS OF EGRESS REQUIRED FROM MEZZANINE UNLESS MEZZANINE IS OPEN (NOT ENCLOSED) AND MEETS ALL REQ'S OF IBC 1015.1 1. OCCUPANT LOAD IS NO MORE THAN 49 AND 2. COMMON PATH OF TRAVEL DOES NOT EXCEED BUILDING TRAVEL DISTANCE AND 3. PER IBC SECTIONS 1015.3, 1015.4 & 1015.5	505.3 IBC 1015.1	77 220
6	<b>TYPES OF CONSTRUCTION</b>	USE CHAPTER 6 OF IBC	2-6	3
6.1	CONSTRUCTION CLASSIFICATION	TYP. DeCA COMMISSARY CLASSIFIED AS <b>II B CONSTRUCTION</b>	IBC 602.2	85 C6-6
6.3	FIRE-RESISTIVE RATINGS	NO FIRE RESISTANCE RATING REQUIRED ON STRUCTURAL FRAME, BEARING WALLS, FLOOR, & ROOF  EXTERIOR BEARING WALLS PER IBC Table 602 2 HOUR IF < 5' FIRE SEPARATION DISTANCE 1 HOUR IF ≥ 5' ≤ 10' FIRE SEPARATION DISTANCE 0 HOUR IF > 10' FIRE SEPARATION DISTANCE  INTERIOR PARTITIONS: - IBC FIRE RESISTANCE REQUIREMENTS FOR PERMANENT PARTITIONS DO NOT APPLY TO NON-BEARING PARTITIONS IN TYPE I AND TYPE II CONSTRUCTION- EXCEPT AS NOTED BELOW. COMPLY WITH NFPA 101 REQUIREMENTS FOR FIRE RESISTANCE RATINGS OF NON-BEARING PARTITIONS. - OCCUPANCY SEPARATION WALLS, WHERE REQUIRED, MUST COMPLY WITH THE IBC - ( THERE ARE NONE WITH NONSEPARATED OCCUPANCY)	IBC Table 601 IBC Table 601 UFC 2-1.2	87 88 8

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		0 HR. INTERIOR PARTITIONS; NFPA 101 REQ'S DO NOT REQUIRE ADDITIONAL FIRE RATINGS FOR INTERIOR PARTITIONS FOR TYPICAL COMMISSARY OCCUPANCIES AND CONSTRUCTION CLASSIFICATION	NFPA 101	
		NOTED EXCEPTIONS: EXIT STAIRS FROM A SECOND STORY AND ELEVATOR ENCLOSURES ( SEE CH. 30 FOR NAVY AND DLA REQ'S FOR ELEVATOR HOISTWAYS )		
6.3	COMBUSTIBLE MATERIALS	ALLOWABLE COMBUSTIBLE MATERIALS IN TYPE I AND II CONSTRUCTION,. SOME TYP. ITEMS NOTED BELOW:	IBC 603.1	86 C6-14
		1. FIRE-RETARDANT TREATED (FRT) WOOD ALLOWED IN : - NONBEARING PARTITIONS ( LESS THAN 2 HR RATING) - NON-BEARING WALLS WITH NO FIRE RATING	IBC 603.1 1.	86
		- FRT PLYWOOD MUST NOT BE USED IN ANY PART OF THE ROOF OR ROOFING SYSTEM	UFC 2-7.1	13
		2. THERMAL AND ACOUSTICAL INSULATION, OTHER THAN FOAM PLASTICS, HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 ( 100 IF CONTAINED IN GYP. PARTITION - PER EXCEPTION 1).	IBC 603.1 2.	86 C6-14
		3. ROOF COVERINGS THAT HAVE AN A, B, OR C CLASSIFICATION	IBC 603.1 4.	86 C6-14
		4. INTERIOR FLOOR FINISH AND INTERIOR FINISH, TRIM, AND MILLWORK SUCH AS DOORS, DOOR FRAMES, WINDOW SASHES, AND FRAMES	IBC 603.1 5.	86 C6-14
		5. BLOCKING SUCH AS FOR HANDRAILS, MILLWORK, CABINETS, AND WINDOW & DOOR FRAMES	IBC 603.1 11.	86 C6-14
7	<b>FIRE-RESISTANT RATED CONSTRUCTION</b>	USE CHAPTER 7 OF IBC AND UFC 3-600-01. IF ANY CONFLICT OCCURS, THE REQUIREMENTS OF UFC 3-600-01 TAKES PRECEDENCE.	2-7	2
7.1	PROJECTIONS	CORNICES, EAVE OVERHANGS AND SIMILAR ARCHITECTURAL APPENDAGES EXTENDING BEYOND THE FLOOR AREA IN TYPE II CONSTRUCTION SHALL BE OF NONCOMBUSTIBLE MATERIALS	IBC 704.2 & 7.4.2.1	91 C7-17
		<b>ENTRY/EXIT CANOPIES AND DOCK CANOPIES NEED TO BE OF NON-COMBUSTIBLE CONSTRUCTION</b>		
7.2	PARAPETS	PARAPETS NOT REQUIRED BY ANY OF THE EXCEPTIONS 1. 0 HR. RATED WALLS OR 3. NONCOMBUSTIBLE CONSTRUCTION	704.11	93
7.3	FIRE WALLS	NOT TYPICAL ON DeCA COMMISSARIES UNLESS BUILDING IS DIRECTLY ATTACHED TO ANOTHER	IBC 705	94

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
7.4	FIRE BARRIERS	FOR BUILDINGS WITH A SECOND FLOOR: -SHAFTS : TYP. 1 HOUR RATED CONSTRUCTION PER IBC 707 -STAIRWELLS : CONSIDERED EXIT ENCLOSURES AND REQUIRE 1 HR. RATED CONSTRUCTION AND PER IBC 1020  <b>NOTE: MEZZANINE STAIRWELLS DO NOT TYPICALLY NEED TO BE RATED CONSTRUCTION</b>	IBC 706.3 & 707	96, 97
		ELEVATORS - 1-HR CONSTRUCTION TYPICAL FOR PARTITIONS AND SUPPORTING MEMBERS - FOR NAVY AND DLA PROJECTS, PROVIDE 2-HR FIRE RESISTANT CONSTRUCTION FOR ALL ELEVATOR HOISTWAYS 2-HR. EXCEPTION: EXISTING BUILDINGS THAT ARE BEING RENOVATED WITH EXISTING ELEVATOR SHAFTS NOT BEING MODIFIED AND THAT DO NOT REQUIRE 2-HOUR RATED FIRE RESISTANT CONSTRUCTION IN ACCORDANCE WITH IBC.	UFC 3-600-01 6-30.1	79
7.5	OPENING PROTECTIVES	OPENINGS IN FIRE RATED CONSTRUCTION ARE REQUIRED PER IBC 715.	IBC 715	106
7.6	CONCEALED SPACES	DRAFTSTOPPING NOT REQUIRED IN NONCOMBUSTIBLE CONSTRUCTION	IBC 717.2	113
		FIRESTOPPING NOT REQUIRED IN NONCOMBUSTIBLE CONSTRUCTION	IBC 717.3	114
		COMBUSTIBLE MATERIALS NOT PERMITTED IN CONCEALED SPACES WITH THE FOLLOWING EXCEPTIONS:  1. COMBUSTIBLE MATERIALS IN ACCORDANCE WITH SECTION 603  2. CLASS A INTERIOR FINISHES ( PER SECTION 803)  3. OTHER MECHANICAL AND PIPING MATERIALS - SEE 717.5	IBC 717.5	115
7.7	INSULATING MATERIALS	USE ASTM E84 FOR SMOKE AND FLAME RATINGS	IBC 719.1	115
		CONCEALED INSULATION: MAX FLAME SPREAD 25 PER IBC MAX SMOKE DEVELOPED INDEX 150 ( PER UFC ) - DOES NOT APPLY TO MASONRY CAVITY WALL INSULATION PER UFC 2-7.2.2 WHERE MASONRY SEPARATES INSULATION FROM INTERIOR OF BUILDING - DOES NOT APPLY TO INSULATION WITHIN HOLLOW METAL DOORS PER UFC 2-7.2.2	IBC 719.2 UFC 2-7.1	116 C7-24 12

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
		EXPOSED INSULATION : MAX FLAME SPREAD 25 PER IBC MAX SMOKE DEVELOPED INDEX 150 ( PER UFC )	IBC 719.2 UFC 2-7.1	116 12
		ROOF INSULATION : THE USE OF COMBUSTIBLE ROOF INSULATION NOT COMPLYING WITH SECTIONS 719.2 AND 719.3 SHALL BE PERMITTED IN ANY TYPE CONSTRUCTION PROVIDED IT IS COVERED WITH APPROVED ROOF COVERINGS DIRECTLY APPLIED THERETO.	IBC 719.5	116 C7-124
		<b>COMMISSARY ROOF INSULATION IS TYPICALLY PART OF A CLASS A ROOF SYSTEM AND THEREFORE COMPLIES</b>		
8	INTERIOR FINISHES	USE CHAPTER 8 OF IBC AND UFC 3-600-01. IF ANY CONFLICT OCCURS, THE REQUIREMENTS OF UFC 3-600-01 TAKE PRECEDENCE.	2-8	2
		UFC 3-600-01 REQUIRES CEILING, WALL AND FLOOR FINISHES CONFORM TO NFPA 101	UFC 2-6	11
8.1	CLASSIFICATION RATINGS	WALL AND CEILING INTERIOR FINISHES SHALL BE TESTED IN ACCORDANCE WITH NFPA 255, OR ASTM E 84, OR UL 723 AND BE CLASSIFIED AS FOLLOWS: CLASS A: FLAME 0-25 ; SMOKE 0-450 CLASS B: FLAME 26-75 ; SMOKE 0-450 CLASS C: FLAME 76-200 ; SMOKE 0-450	NFPA 101 10.2.3.4	101-90
8.2	WALLS AND CEILING FINISHES	INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS A OR CLASS B	NFPA 36.3.3.2	101-267
8.3	FLOOR FINISHES	INTERIOR FLOOR FINISHES SHALL COMPLY WITH 10.2.7.1 ( CARPET) OR 10.2.7.2 ( MATERIALS OTHER THAN CARPET)	NFPA 36.3.3.3.3	101-267
		0.1 W / cm (squared ) MIN. RADIANT FLUX REQUIRED FOR FLOORING OTHER THAN CARPET	NFPA 10.2.7.2	101-91
		SEE ADDITIONAL SECTIONS FOR FINISHES IN RATED EXIT ENCLOSURES		
8.4	TRIM AND INCIDENTAL FINISH	CLASS "C" WALL AND CEILING TRIM AND INCIDENTAL FINISHES ( SUCH AS BULLETIN BOARDS) ALLOWED IF LESS THAN 10% OF AGGREGATE WALL AND CEILING AREA	NFPA 10.2.5	101-91
9	FIRE PROTECTION SYSTEMS	USE UFC 3-600-01 IN LIEU OF IBC CHAPTER 9. <b>- CH. 9 NOT PART OF THIS CODE REVIEW EXCEPT THAT :</b>	2-9	3
		COMPLETE AUTOMATIC SPRINKLER PROTECTION MUST BE PROVIDED IN ALL NEW OR RENOVATED DoD FACILITIES	UFC 4-2.2	25
		REFER TO FFE DRAWINGS AND DESIGN ANALYSIS FOR ADDITIONAL FIRE PROTECTION INFORMATION		

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
10	MEANS OF EGRESS	USE UFC 3-600-01 IN LIEU OF IBC CHAPTER 10	2-10	3
		COMPLY WITH REQUIREMENTS OF NFPA 101 EXCEPT AS MODIFIED BY UFC 3-600-01	UFC 2-5.1	11
10.1	LIFE SAFETY CLASSIFICATION OF OCCUPANCY	TO DETERMINE NFPA EGRESS REQUIREMENTS, MUST FIRST CLASSIFY BUILDING OCCUPANCY PER NFPA		
		CLASSIFICATION : <b>MULTIPLE OCCUPANCY - MIXED OCCUPANCY</b>	NFPA 6.1.14.2.2	101-42
		<b>PREDOMINANT OCCUPANCIES :</b>		
		MERCANTILE ( SALES AREA )	NFPA 6.1.10.1 & 36.1.4.2.1	101-41 101-264
		- SUB CLASSIFIED AS <b>CLASS A MERCANTILE</b>		
		<b>STORAGE</b> : STORAGE AND RECEIVING AREAS	NFPA 6.1.13.1 & 6.2.2.3	101-42 101-44
		- SUB CLASSIFIED AS <b>ORDINARY HAZARD</b>		
		<b>INCIDENTAL OCCUPANCIES:</b> AREAS TOTAL LESS THAN 10 % OF TOTAL AREA AND INCLUDE:		
		INDUSTRIAL ( DELI, MEAT AND PRODUCE WORK ROOMS)	NFPA 40.1.1.2	101-285
		SUB-CLASSIFIED AS <b>SPECIAL PURPOSE INDUSTRIAL</b> :	40.1.4.1.2	101-285
		<b>BUSINESS</b> ( OFFICE AREAS )	NFPA 6.1.11.1	101-42
10.2	LIFE SAFETY - MIXED OCCUPANCIES	THE ENTIRE BUILDING SHALL COMPLY WITH THE MOST RESTRICTIVE FIRE AND LIFE SAFETY REQUIREMENTS OF THE PREDOMINANT OCCUPANCIES INVOLVED WHICH IS CLASS A MERCANTILE & ORDINARY HAZARD STORAGE	NFPA 6.1.14.3.2	101-42
10.3	CLASSIFICATION OF HAZARD OF CONTENT	<b>ORDINARY HAZARD</b>	NFPA 6.2.2.3	101-44
10.4	OCCUPANT LOAD	FOLLOW TABLE 7.3.1.2	NFPA Table 7.3.1.2	101-65
		MERCANTILE	NFPA Table 7.3.1.2	101-66
		SALES AREA ON STREET LEVEL . . . . . 30 S.F./ PERSON		
		BUSINESS ( OFFICES ) . . . . . 100 S.F./ PERSON		
		STORAGE ( STORAGE & RECEIVING) . . . 300 S.F. / PERSON		
		INDUSTRIAL ( WORK ROOMS ) . . . . . 100 S.F. / PERSON		
		SEE OCCUPANCY / EGRESS PLANS FOR ADDITIONAL INFO		

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
10.5	MINIMUM NO. OF MEANS OF EGRESS - BUILDING	NOT LESS THAN 2 SEPARATE EXITS SHALL BE PROVIDED ON EVERY STORY - SEE MECHANICAL EXCEPTION BELOW  EXCEPTION : STORIES USED EXCLUSIVELY FOR MECHANICAL EQUIPMENT, FURNACES, OR BOILERS SHALL BE PERMITTED TO HAVE A SINGLE MEANS OF EGRESS WHERE THE TRAVEL DISTANCE TO AN EXIT ON THAT STORY IS NOT IN EXCESS OF THE COMMON PATH OF TRAVEL	NFPA 36.2.4.1 (2)  NFPA 7.12.2	101-265  101-74
		3 EXITS ( MIN. ) REQUIRED FOR OCCUPANCY LOAD OF 500 - 1000	NFPA 7.4.1.2	101-68
		4 EXITS ( MIN ) REQUIRED FOR OCCUPANCY LOAD OF 1000+		
10.6	MINIMUM NO. OF MEANS OF EGRESS - MEZZANINE	A SINGLE MEANS OF EGRESS IS ALLOWED FROM A MEZZANINE PROVIDED THE COMMON PATH OF TRAVEL ( TO AN EXIT ) DOES NOT EXCEED MAX. COMMON PATH ( 100' W/ SPRINKLER )	NFPA 36.2.4.5	101-265
10.7	EGRESS FROM SPECIAL USE ROOMS	MECHANICAL EQUIPMENT ROOMS, BOILER ROOMS AND FURNACE ROOMS  COMMON PATH OF TRAVEL NOT EXCEEDING 100' FOR NEW AND 150' FOR EXISTING BUILDINGS WITH AN APPROVED , SUPERVISED AUTO SPRINKLER	NFPA 7.12  NFPA 7.12.1 (1) (a) 7.12.1 (2) (a)	101-74  101-74
		<b>NOTE ; THE INTERNATIONAL BUILDING CODE ( IBC ) DENOTES SPECIAL SECOND MEANS OF EGRESS REQUIREMENTS FOR BOILER, FURNACE AND REFRIGERATION MACHINERY ROOMS WHICH HAVE BEEN A PART OF COMMISSARY DESIGN FOR MANY YEARS. HOWEVER, PER UFC, THE IBC MEANS OF EGRESS CODE IS SUPERSEDED WITH THE NFPA MEANS OF EGRESS CODE WHICH HAS NO SUCH SIMILAR REQUIREMENTS.</b>	IBC 1015.5 & 1015.4	220
10.8	ARRANGEMENT OF MEANS OF EGRESS	IN BUILDINGS PROTECTED THROUGHOUT BY AN APPROVED, SUPERVISED AUTOMATIC SPRINKLER SYSTEM, THE MINIMUM SEPARATION DISTANCE BETWEEN TWO EXITS SHALL BE NOT LESS THAN ONE-THIRD THE DIAGONAL OF THE BUILDING OR AREA SERVED	NFPA 7.5.1.3.3	101-68
10.9	DEAD END CORRIDORS	DEAD ENDS CORRIDORS SHALL NOT EXCEED 50 FEET (WITH APPROVED, SUPERVISED AUTO. SPRINKLER SYSTEM)	NFPA 36.2.5.2.1	101-265
10.10	COMMON PATH OF TRAVEL	COMMON PATH OF TRAVEL SHALL NOT EXCEED 100 FEET (WITH APPROVED, SUPERVISED AUTO. SPRINKLER SYSTEM)	NFPA 36.2.5.31	101-266
10.11	TRAVEL DISTANCE	TRAVEL DISTANCE SHALL NOT EXCEED 250' IN ORDINARY HAZARD, MERCANTILE OCCUPANCIES WITH AN APPROVED, SUPERVISED AUTO. SPRINKLER SYSTEM ))  <b>USE TRAVEL DISTANCES IN MERCANTILE SINCE MORE RESTRICTIVE THAN THE OTHER OCCUPANCIES</b>	NFPA 36.2.6.2	101-266

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
10.12	EGRESS CAPACITY AND WIDTH	LEVEL COMPONENTS AND RAMPS = .2" / OCCUPANT STAIRWAYS = .3" / OCCUPANT	NFPA Table 7.3.3.1	101-67
		36" MIN. EXIT ACCESS WIDTH IN NEW BUILDINGS	NFPA 7.3.4.1	101-67
		28" MIN. EXIT ACCESS WIDTH IN EXISTING BUILDINGS	NFPA 7.3.4.1.2	101-67
10.13	MERCANTILE SPECIFIC EGRESS REQUIREMENTS	FRONT WALL EXITING: IF THE ONLY MEANS OF CUSTOMER ENTRANCE IS THROUGH ONE EXTERIOR WALL OF THE BUILDING, ONE-HALF OF THE REQUIRED EGRESS WIDTH SHALL BE LOCATED IN SUCH WALL	NFPA 36.2.5.7	101-266
		<b><i>CALCULATE THE TOTAL NUMBER OF OCCUPANTS ( BASED ON SQUARE FOOTAGE PER OCCUPANCY) OF THE MERCANTILE AREA AND SMALL ADJOINING BUSINESS AND STORAGE AREAS WHICH EXIT THRU THE MERCANTILE AREA . DIVIDE THAT NUMBER BY 2. RESULTING NUMBER IS THE <u>MINIMUM</u> NUMBER OF OCCUPANTS FOR WHICH THE TOTAL FRONT WALL EXITS MUST ACCOMMODATE. FRONT WALL EXITING IS TYPICALLY DESIGNED TO ACCOMMODATE MORE THAN THIS MINIMUM NUMBER. SEE OCCUPANCY/EGRESS PLAN FOR ADD'L INFO.</i></b>		
		EXITING THRU CHECKSTANDS: NOT LESS THAN ONE-HALF OF THE <u>REQUIRED</u> EXITS SHALL BE LOCATED SO AS TO BE REACHED WITHOUT PASSING THROUGH CHECKOUT STANDS	NFPA 36.2.5.8	101-266
		REQUIRED AISLES SHALL NOT BE LESS THAN 36" IN WIDTH	NFPA 36.2.5.5	101-266
		NOT LESS THAN 1/2 OF THE REQUIRED SHALL BE LOCATED SO AS TO BE REACHED WITHOUT PASSING THROUGH CHECKOUT STANDS	NFPA 36.2.5.9	101-266
		WHERE WHEELED CARTS OR BUGGIES ARE USED BY CUSTOMERS, ADEQUATE PROVISION SHALL BE MADE FOR THE TRANSIT AND PARKING OF SUCH CARTS TO MINIMIZE THE POSSIBILITY THAT THEY MIGHT OBSTRUCT MEANS OF EGRESS	NFPA 36.2.5.10	101-266
		<b><i>CART CORRALS WITH PERIMETER RAILINGS AND ADEQUATE PARKING AREAS ( FOR POWERED CARTS) ARE TYPICALLY PROVIDED TO COMPLY WITH THIS</i></b>		
		NOT LESS THAN 50% OF THE REQUIRED EGRESS CAPACITY SHALL BE LOCATED INDEPENDENT OF THE MAIN ENTRANCE / EXIT DOORS.	NFPA 36.4.5.2.2	101-270

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
		<p>EXITING THRU STORE ROOMS OKAY IN CLASS B MERCANTILE WITH APPROVED SPRINKLER SYSTEM IF:</p> <p>NOT MORE THAN 50% OF EXIT ACCESS SHALL BE PROVIDED THROUGH HE STOREROOM.</p> <p>(2) THE STOREROOM SHALL NOT BE SUBJECT TO LOCKING.</p> <p>(3) THE MAIN AISLE THROUGH HE STOREROOM SHALL NOT BE LESS THAN 44IN. WIDE.</p> <p>(4) THE PATH OF TRAVEL THROUGH THE STOREROOM, DEFINED WITH FIXED BARRIERS, SHALL BE DIRECT AND CONTINUOUSLY MAINTAINED IN AN UNOBSTRUCTED CONDITION.</p> <p><b>TYP. COMMISSARY EXITING IS NO LONGER DESIGNED TO EXIT MERCANTILE PATRONS THROUGH STOREROOM / RECEIVING AREAS ALTHOUGH THIS IS AN OPTION. THE REQUIREMENT FOR "FIXED BARRIERS" HAS VARIED GREATLY FROM AHJ TO AHJ SOMETIMES REQUIRING FIXED RAILS ACROSS STOREROOM FLOOR - WHICH IS NOT CONDUCTIVE TO TRAFFIC FLOW</b></p>	NFPA 36.2.5.11	101-266
10.14	ILLUMINATION OF MEANS OF EGRESS	EGRESS ILLUMINATION SHALL BE ILLUMINATED IN ACCORDANCE WITH SECTION 7.8	NFPA 36.2.8	101-266
10.15	EMERGENCY LIGHTING OF MEANS OF EGRESS	CLASS B MERCANTILE OCCUPANCIES SHALL HAVE EMERGENCY LIGHTING IN ACCORDANCE WITH SECTION 7.9	NFPA 36.2.9	101-266
10.16	MARKING OF MEANS OF EGRESS	<p>WHERE AN EXIT IS NOT IMMEDIATELY APPARENT FROM ALL PORTIONS OF THE SALES AREA, MEANS OF EGRESS SHALL HAVE SIGNS IN ACCORDANCE WITH SECTION 7.10</p> <p><b>THIS SECTION OUTLINES REQUIREMENTS FOR EXIT SIGNS. PROVIDE THE FOLLOWING ITEMS IN ADDITION TO EXIT SIGNS.</b></p> <p>IN NEW BUILDINGS, TACTILE SIGNAGE SHALL BE LOCATED AT EACH EXIT DOOR REQUIRING AN EXIT SIGN AND SHALL READ "EXIT" AND SHALL COMPLY WITH ANSI A117.1</p>	NFPA 36.2.9	101-266
10.17	DOORS AS PART OF MEANS OF EGRESS	<p><b>SWINGING DOORS :</b></p> <p>EGRESS CAPACITY SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR ( WHEN OPENED 90 DEGREES) AND THE STOP ON THE OPPOSITE JAMB.</p> <p>MIN. DOOR WIDTH IS 32" ( ALSO MINIMUM FOR ADA)</p> <p><b>SLIDING DOORS:</b></p> <p>HORIZONTAL-SLIDING DOORS COMPLYING WITH 7.2.1.14 SHALL BE PERMITTED.</p> <p><b>CURRENT SPECIFIED SLIDING DOORS ARE LISTED TO BE NFPA 101 COMPLIANT</b></p>	NFPA 7.2.1.2.1 (5)	101-46
			NFPA 7.2.1.2.4	101-46
			NFPA 7.2.1.2.1.5	101-56

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
		<b>LOCKS :</b> LOCKS COMPLYING WITH 7.2.1.5.4 SHALL BE PERMITTED ONLY ON PRINCIPLE ENTRANCE EXIT DOORS.	NFPA 36.2.2.2.2	101-265
		<b>SEE APPENDIX A FOR DEFINITION OF PRINCIPLE ENTRANCE - SUMMARIZE - ONLY AUTO-SLIDING DOORS AND MAYBE ADMIN ENTRY DOOR QUALIFY FOR PRINCIPLE ENTRY/EXIT, THEREFORE, PROVIDE EXIT HARDWARE ON TYP. EXIT MAN DOORS THAT DOES NOT REQUIRE A KEY TO UNLOCK.</b>		
		AUTO-SLIDING DOORS MAY BE KEY LOCKED PROVIDED 1- A READILY VISIBLE, DURABLE SIGN IN LETTERS NOT LESS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND IS LOCATED ADJACENT TO OR ON THE DOOR "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED" 2- THE LOCKING DEVISE IS OF A TYPE THAT IS READILY DISTINGUISHABLE AS LOCKED 3- A KEY IS IMMEDIATELY AVAILABLE TO ANY OCCUPANT INSIDE THE BUILDING WHEN IT IS LOCKED <b>OR</b>	NFPA 7.2.1.5.4	101-47
		PROVIDE LOCK WHERE KEY CANNOT BE REMOVED WHEN THE DOOR IS LOCKED FROM THE SIDE FROM WHICH EGRESS IS MADE	NFPA 7.2.1.5.6	101-48
		DELAYED-EGRESS LOCKS ARE PERMITTED ON EXIT MAN DOORS PROVIDED THEY MEET PROVISIONS OF NFPA 7.2.1.6.1	NFPA 36.2.2.2.4 & 7.2.1.6.1	101-265 101-48
		ACCESS-CONTROLLED EGRESS DOORS ARE PERMITTED ON EXIT MAN DOORS PROVIDED THEY MEET PROVISIONS OF NFPA 7.2.1.6.2	NFPA 36.2.2.2.4 & 7.2.1.6.2	101-265 101-48
		<b>POWERED DOORS :</b> WHERE MEANS OF EGRESS DOORS ARE OPERATED BY POWER, THE DESIGN SHALL BE SUCH THAT, IN THE EVENT OF POWER FAILURE, THE DOORS OPEN MANUALLY TO ALLOW EGRESS TRAVEL	NFPA 7.2.1.9.1	101-49
		A READILY VISIBLE DURABLE SIGN SHALL BE LOCATED ON THE EGRESS SIDE OF EACH DOOR "IN EMERGENCY, PUSH TO OPEN"	NFPA 7.2.1.9.3	101-50
11	ACCESSIBILITY	USE THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDE (ADAAG) IN LIEU OF IBC CHAPTER 11	2-11	4
11.1	APPLICATION	ALL AREAS OF NEWLY DESIGNED CONSTRUCTED BUILDINGS AND FACILITIES AND ALTERED PORTIONS OF EXISTING BUILDINGS SHALL COMPLY WITH THESE REQUIREMENTS.	ABA F201.1	
		ADDITIONS SHALL COMPLY WITH REQUIREMENTS FOR NEW CONSTRUCTION	ABA F202.2	

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
		ALTERATIONS SHALL COMPLY EXCEPT:	ABA F202.3	
		1. AN EXISTING CIRCULATION ROUTE - TO AN ALTERED AN AREA OR SPACE, WHICH IS NOT A PRIMARY FUNCTION AREA OR SPACE - IS NOT REQUIRED TO BE MADE ACCESSIBLE. ( SEE 202.4 FOR ADD'L INFO )		
		2. IN ALTERATIONS WHERE COMPLIANCE WITH APPLICABLE REQUIREMENTS IS TECHNICALLY INFEASIBLE( SEE DEFINITIONS) , THE ALTERATION SHALL COMPLY WITH THE REQUIREMENTS TO THE MAXIMUM EXTENT FEASIBLE.		
		NOTE: SEVERAL REQUIRED UPGRADES TO EXISTING FACILITIES WITHIN A BUILDING WITH A NEW ADDITION	ABA F202.2.1-5	
11.2	EXEMPT SPACES	ACCESSIBLE EXEMPT SPACES: - MACHINERY SPACES FREQUENTED ONLY BY SERVICE PERSONNEL - INCLUDING ELEVATOR ROOMS AND PITS, MECHANICAL, ELECTRICAL AND COMMUNICATIONS ROOMS	ABA F203.6	
		- LIMITED ACCESS SPACES ACCESSED BY LADDERS, CRAWL SPACES OR VERY NARROW PASSAGEWAYS,	ABA F203.5	
11.3	ACCESSIBLE ROUTES	EACH SITE ARRIVAL POINT MUST BE CONNECTED BY AN ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCE(S) SERVED.	ABA F206.2.1	
		AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS OR ELEMENTS THAT ARE ON THE SAME SITE UNLESS THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY WITH NO PEDESTRIAN ACCESS.	ABA F206.2.2	
		ACCESSIBLE ROUTE ( SUCH AS ELEVATOR ) REQUIRED TO EVERY STORY AND MEZZANINE UNLESS THE SECOND LEVEL HAS AN OCCUPANT LOAD OF FIVE OR FEWER ( ALSO SEE F203.5 & 6 EXEMPTIONS)	ABA F206.2.3	
		ACCESSIBLE ROUTE REQUIRED BETWEEN ACCESSIBLE ENTRANCE AND ALL ACCESSIBLE AREAS	ABA F206.2.4	
		ACCESSIBLE ROUTES SHALL COINCIDE OR BE LOCATED WITHIN THE SAME AREA AS GENERAL CIRCULATION PATHS. WHERE CIRCULATION PATHS ARE INTERIOR, SO SHALL BE ACCESSIBLE ROUTES.	ABA F206.3	
		AT LEAST 60% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE	ABA F206.4.1	

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE																								
11.4	ACCESSIBLE PARKING SPACES	<p>PARKING LOT IS NOW REFERENCED AS 'FACILITY' WHICH INDICATES BOTH PARKING LOTS AND PARKING STRUCTURES.</p> <p>WHERE MORE THAN ONE PARKING FACILITY ( LOT ) EXISTS ON A SITE, CALCULATE MINIMUM NUMBER OF SPACES WITHIN EACH FACILITY BASED ON PARKING TOTAL OF CARS WITHIN EACH FACILITY - NOT BASED ON TOTAL NUMBER OF SPACES FROM ALL FACILITIES ON A SITE</p>	ABA F208.2 ADVISORY																									
		<table border="1"> <thead> <tr> <th><u>TOTAL PARKING SPACES</u></th> <th><u>MINIMUM REQUIRED</u></th> </tr> </thead> <tbody> <tr><td>1 - 25</td><td>1</td></tr> <tr><td>26 - 50</td><td>2</td></tr> <tr><td>51 - 75</td><td>3</td></tr> <tr><td>76 - 100</td><td>4</td></tr> <tr><td>101 - 150</td><td>5</td></tr> <tr><td>151 - 200</td><td>6</td></tr> <tr><td>201 - 300</td><td>7</td></tr> <tr><td>301 - 400</td><td>8</td></tr> <tr><td>401 - 500</td><td>9</td></tr> <tr><td>501 - 1,000</td><td>2% OF TOTAL</td></tr> <tr><td>1001 AND OVER</td><td>20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000</td></tr> </tbody> </table>	<u>TOTAL PARKING SPACES</u>	<u>MINIMUM REQUIRED</u>	1 - 25	1	26 - 50	2	51 - 75	3	76 - 100	4	101 - 150	5	151 - 200	6	201 - 300	7	301 - 400	8	401 - 500	9	501 - 1,000	2% OF TOTAL	1001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000	ABA F208.2	
<u>TOTAL PARKING SPACES</u>	<u>MINIMUM REQUIRED</u>																											
1 - 25	1																											
26 - 50	2																											
51 - 75	3																											
76 - 100	4																											
101 - 150	5																											
151 - 200	6																											
201 - 300	7																											
301 - 400	8																											
401 - 500	9																											
501 - 1,000	2% OF TOTAL																											
1001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000																											
		<p>PROVIDE A MIN. OF 1 VAN PARKING SPACE PER 502 AND NOT LESS THAN ONE VAN PARKING SPACE FOR EVERY 6 PARKING SPACES REQUIRED OR FRACTION THEREOF</p>	ABA F208.2.4																									
		<p>STANDARD PARKING STALL: PROVIDE MIN. 8' WIDE STALL WITH A MIN. 5' WIDE ( FULL LENGTH) ACCESS AISLE WHICH IS MARKED TO DISCOURAGE PARKING ( CROSS STRIPE ) AND IS CONNECTED TO ACCESSIBLE ROUTE. ACCESS AISLES MAY BE SHARED BETWEEN ACCESSIBLE STALLS.</p>	ABA F502.2 & F502.3																									
		<p>VAN PARKING STALL : 11' WIDE WITH ACCESS AISLE SIMILAR TO STANDARD ABOVE. MAY RECONFIGURE VAN SPACE TO 8' WIDE STALL WITH 8' WIDE ACCESS AISLE - <b>BOTH CONFIGURATIONS ARE A 16' WIDE VAN SPACE</b> - <b>NOT REQ'D BUT BEST TO CONFIGURE ACCESS AISLE ON RIGHT SIDE OF VAN PARKING</b></p>	ABA F502.2 & F502.3																									
		<p>PARKING SHALL BE LOCATED WITHIN ONE LOT AND ON THE SHORTEST ROUTE TO AN ACCESSIBLE ENTRANCE. WHERE THERE IS MORE THAN ONE ACCESSIBLE ENTRANCE, ACCESSIBLE STALLS MAY BE DISPERSED IN DIFFERENT LOTS AND LOCATED ON SHORTEST ROUTES TO EACH DOOR IF THAT IS A BENEFIT - SEE ADVISORY F208.3.1</p>	ABA F208..3.1																									

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CODE ANALYZED : **UNIFIED FACILITIES CRITERIA UFC 1-200-01, 27 NOV 2007**

NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
11.5	PASSENGER LOADING ZONE	MIN. 8' WIDE X 20' LONG VEHICULAR PULL-UP SPACE  ADJACENT TO PULL-UP SPACE, PROVIDE 5' WIDE ACCESS AISLE X LENGTH OF PULL-UP, FOR LOADING OF PASSENGERS. ACCESS AISLE SHALL BE SLOPED < = 1:48, AT SAME LEVEL AS PULL-UP AISLE AND MARKED TO DISCOURAGE PARKING.  <i>DeCA COMMISSARIES OFTEN HAVE STEEL BOLLARDS AT 8' O.C. BETWEEN PULL-UP SPACE AND ACCESS AISLE. BOLLARDS PREVENT PARKING IN AISLE WHILE STILL ALLOWING ROOM BETWEEN BOLLARDS TO LOAD PEOPLE.</i>	ABA F503.2	
11.6	GENERAL ACCESSIBILITY REQUIREMENTS	STAIRWAYS:  - 7" MAX RISER, 11" MAX. TREAD DEPTH - OPEN RISERS ARE NOT PERMITTED - THOSE SUBJECT TO WET CONDITIONS DESIGN TO PREVENT ACCUMULATION OF WATER  HANDRAILS : - PROVIDE ON BOTH SIDES OF STAIRS AND RAMPS. - 34-38" ABOVE NOSINGS, RAMPS AND LANDINGS - EXTEND SLOPING HANDRAIL 1 TREAD DEPTH AT BOTTOM OF STAIRS, 1'-0" HORIZ. AT TOP OF STAIRS AND 1'-0" HORIZ. AT TOP AND BOTTOM OF RAMPS	ABA 504.2 ABA 504.3 ABA 504.7  ABA 505.2 ABA 505.4 ABA 505.10.1 - 3	
11.7	PLUMBING FACILITIES	<b>DRINKING FOUNTAINS</b> SHALL COMPLY WITH 602 :  - NO FEWER THAN 2 DRINKING FOUNTAINS SHALL BE PROVIDED. 1 D.F. SHALL COMPLY WITH 602.1 - 6 AND THE OTHER SHALL COMPLY WITH 602.7 ( STANDING PERSONS) - EXCEPTION FOR A COMBINATION D.F. THAT COMPLIES WITH BOTH 602.1-6 AND WITH 602.7.  - WHERE 3 OR MORE DRINKING FOUNTAINS PROVIDED, PROVIDE 1/2 OF TOTAL ( +/- .5) SHALL BE OF EACH TYPE  - FORWARD APPROACH (CLEAR FLOOR SPACE) REQUIRED  <b>SINKS</b> SHALL COMPLY WITH 606 : -EXCEPTION: MOP AND SERVICE SINKS : NO ACCESSIBLE FLOOR SPACE REQ'D - SIDE APPROACH ALLOWED FOR A KITCHEN ( TYPE) SINK WHEN NO COOK TOP OR RANGE PROVIDED I.E. BREAK ROOMS - TOP OF SINK AT 34" A.F.F.  <b>TOILET ROOMS</b> SHALL COMPLY WITH 603 : - PROVIDE COMPLIANT TURNING SPACE - CLEARANCES AT FIXTURES ARE ALLOWED TO OVERLAP TURNING SPACE - DOOR SWING MAY OVERLAP TURNING SPACE BUT NOT FIXTURE CLEARANCES	ABA F211.6  ABA F211.3  ABA 602.2  ABA F212.3 ABA F212.3 ABA 606.2  ABA 606.3  ABA F213.2 ABA 603.2.1 ABA 603.2.2 ABA 603.2.3	

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
		- ALTERING AN EXISTING TOILET ROOM SHALL NOT BE REQUIRED, WHERE TECHNICALLY INFEASIBLE, AND WHERE A NEW, SINGLE, UNISEX TOILET ROOM IS PROVIDED IN THE SAME AREA <b>FOR ALTERATIONS : IT WOULD SEEM, THOUGH NOT STATED, ADDITIONAL MALE AND FEMALE TOILET ROOMS IN THE SAME AREA WOULD ALSO ALLOW EXISTING ROOMS TO REMAIN</b>	ABA F213.2	
		- IN ADDITIONS, EXISTING TOILET FACILITIES MAY REMAIN WHERE NEW TOILET FACILITIES ARE PROVIDED AND SERVE THAT ADDITION	ABA F20202.3.1	
		- A MINIMUM OF ONE TOILET, TOILET STALL ( IF PROVIDED), LAVATORY, URINAL ( IF PROVIDED), AND MIRROR SHALL MEET ABA REQUIREMENTS.	ABA F213.1 - .5	
		WATER CLOSETS AND TOILET STALLS PER 604	ABA F213.3.2	
		- 56" DEEP X 60" WIDE MIN. ACCESSIBLE TOILET STALL SIZE (WITH WALL-HUNG TOILET ) - IF 6 OR MORE TOILETS AND URINALS IN A ROOM, THEN ONE STALL ( IN ADDITION TO THE ACCESSIBLE STALL ) MUST BE AN "AMBULATORY ACCESSIBLE TOILET STALL " AND MEET 604.8.2 ( 60" DEEP X 35" WIDE)	ABA 604.8.1.1 ABA F213.3.1	
		KITCHENS AND KITCHEN SINKS SHALL BE ACCESSIBLE - SIDE APPROACH PERMITTED TO A KITCHEN SINK	ABA F212.1 ABA 606.2	
11.8	OTHER FACILITIES	LOCKER ROOMS : - SHALL HAVE COMPLIANT TURNING SPACE WITHIN THE ROOM - <b>REQUIRES A BENCH PER 903 ( FULL BENCH WITH BACK)</b>	ABA 803	
		WHERE LOCKERS ( OR STORAGE ) ARE PROVIDED, PROVIDE AT LEAST 5% AND NO FEWER THAN ONE OF EACH TYPE THAT COMPLIES WITH 811	ABA F225.2.1	
11.9	FIRE ALARM SYSTEMS	PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 ( 2002) WITH EXCEPTIONS.	ABA 702	
11.10	WORK SURFACES	5% OF PERMANENT WORK SURFACES NEED TO BE ACCESSIBLE PER 902 <b>I. E. COUNTERS IN ROOM 4</b> - EXCEPTIONS : SALES COUNTERS AND SERVICE COUNTERS		
11.11	SALES AND SERVICE COUNTERS	PROVIDE AT LEAST ONE ACCESSIBLE COUNTER AREA : FRONT APPROACH : 30" WIDE X 36" MAX. HIGH COUNTER SIDE APPROACH : 36" LONG X 36" MAX. HIGH COUNTER	ABA 904.4.1 & 904.4.2	
11.12	CHECK-OUT AISLES, QUEUES	ALL SHALL COMPLY WITH 904 - (ON AN ACCESSIBLE ROUTE )	ABA F227.1	
		ACCESSIBLE CHECK-OUT AISLES : SHALL COMPLY WITH 904.3 ( 36" AISLE )	ABA F227.2	

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CODE ANALYZED : **UNIFIED FACILITIES CRITERIA UFC 1-200-01, 27 NOV 2007**

NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE										
		IF SALES AREA < 5,000 S.F., PROVIDE 1 MIN. AISLE IF SALES AREA > 5,000 S.F, PROVIDE AISLES AS SUCH : <table border="1"> <thead> <tr> <th>TOTAL NO. CHECK-OUT AISLES</th> <th>MIN. ACCESSIBLE AISLES</th> </tr> </thead> <tbody> <tr> <td>1 - 25</td> <td>1</td> </tr> <tr> <td>26 - 50</td> <td>2</td> </tr> <tr> <td>51 - 75</td> <td>3</td> </tr> <tr> <td>76 - 100</td> <td>3, + 20% OF ADD'L AISLES</td> </tr> </tbody> </table>	TOTAL NO. CHECK-OUT AISLES	MIN. ACCESSIBLE AISLES	1 - 25	1	26 - 50	2	51 - 75	3	76 - 100	3, + 20% OF ADD'L AISLES		
TOTAL NO. CHECK-OUT AISLES	MIN. ACCESSIBLE AISLES													
1 - 25	1													
26 - 50	2													
51 - 75	3													
76 - 100	3, + 20% OF ADD'L AISLES													
12	<b>INTERIOR ENVIRONMENT</b>	USE IBC CH. 12. ( AND MINOR REVISIONS, NOTED, THAT ARE NOT A PART OF THIS CODE ANALYSIS )  <i><b>MOST IBC CH. 12 REQUIREMENTS CONCERN RESIDENTIAL REQUIREMENTS AS WELL AS MECHANICAL VENTILATION AND LIGHTING OF SPACES - WHICH IS NOT PART OF THIS CODE ANALYSIS AND IS PART OF THE MECHANICAL CODE ANALYSIS. REMAINING REQUIREMENTS ARE AS FOLLOWS :</b></i>	2-12	4										
12.1	FLOORS	TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE THAT EXTENDS WITH A 6" MIN. HIGH WALL BASE	IBC 1210.1	C12-15										
12.2	WALLS	WALLS WITHIN 2 FEET OF URINALS AND TOILETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE TO A HEIGHT OF 4 FEET ABOVE THE FLOOR AND WALL MATERIALS SHALL BE OF A MATERIAL THAT IS NOT ADVERSELY AFFECTED BY MOISTURE	IBC 1210.2	C12-15										
13	<b>ENERGY EFFICIENCY</b>	USE UFC 3-400-01 AND ENERGY POLICY ACT OF 2005 IN LIEU OF IBC CHAPTER 13 <i><b>NOT PART OF THIS CODE REVIEW</b></i>	2-13	4										
14	<b>EXTERIOR WALLS</b>	USE IBC CHAPTER 14  <i><b>MOST CH. 14 REQUIREMENTS ARTICULATE REQUIREMENTS FOR GOOD AND ACCEPTABLE PRACTICES FOR EXTERIOR WALLS - WHICH ARE TYPICALLY SPECIFIED AND DETAILED WITH EVERY DECA FACILITY. THEREFORE, REQUIREMENTS OF THIS SECTION ARE NOT REPRODUCED AS PART OF THIS ANALYSIS.</b></i>	2-14	4										
15	<b>ROOF ASSEMBLIES AND ROOFTOP STRUCTURES</b>	USE IBC CHAPTER 15  <i><b>MOST CH. 15 REQUIREMENTS ARTICULATE REQUIREMENTS FOR GOOD AND ACCEPTABLE PRACTICES FOR EXTERIOR WALLS - WHICH ARE TYPICALLY SPECIFIED AND DETAILED WITH EVERY DECA FACILITY. THEREFORE, REQUIREMENTS OF THIS SECTION ARE NOT REPRODUCED AS PART OF THIS ANALYSIS. WITH THE FOLLOWING EXCEPTIONS:</b></i>	2-15	4										

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
15.1	LOW-SLOPE ROOFING	FULLY ADHERED ROOF SYSTEMS . . . SHALL BE TESTED IN ACCORDANCE WITH FM4450, FM4470, UL 580 OR UL 1879  <i>THIS WOULD APPLY SINCE DECA COMMISSARY'S STANDARD LOW-SLOPE ROOFING CRITERIA SPECIFIES A FULLY ADHERED, SINGLE-PLY MEMBRANE ROOFING. MOST APPLICABLE CH. 15 CODE REQUIREMENTS WOULD BE ADDRESSED BY TYPICAL DECA COMMISSARY ROOF SPECIFICATION.</i>	IBC 1504.3.1	C15-5
15.2	HIGH-SLOPE ROOFING	ROOF SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH UL 580 OR ASTM E 1592	IBC 1504.3.2	C15-5
15.3	METAL FASCIAS AND COPINGS	LOW-SLOPE ROOF SYSTEM METAL EDGE SECUREMENT , EXCEPT GUTTERS, SHALL BE ANSI/SPRI ES-1, -03 TESTED  <i>FIELD-FORMED FASCIAS AND COPINGS WOULD BE ACCEPTABLE BUT RECEIVING ACCEPTABLE ANSI/SPRI TESTING DATA HAS BEEN PROBLEMATIC TO THIS POINT. DECA COMMISSARY CRITERIA NOW SPECIFIES PREMANUFACTURED FASCIAS AND COPINGS THAT ARE ANSI/SPRI TESTED.</i>	IBC 1504.3.2	C15-5
15.4	ROOF COVERINGS	TYPES AND REQUIREMENTS : ASPHALT SHINGLE ROOF - FOLLOW 1507.2 CLAY TILE ROOFING - FOLLOW 1507.3 METAL PANEL ROOFING - FOLLOW 1507.4 - 3:12 MIN. SLOPE UNLESS PROVIDE LAPS AND SEAM SEALANT THEN OK DOWN TO 1/2 : 12	IBC 1507.2 IBC 1507.3 IBC 1507.4 IBC 1507.4.2	C15-8 C15-12 C15-13 C15-15
15.5	ROOF INSULATION	THERMAL INSULATION PERMITTED PROVIDED IT IS COVERED WITH AN APPROVED ROOF COVERING AND PASSES THE TESTS OF FM 4450 OR UL 1256 WHEN TESTED AS AN ASSEMBLY.  POLYISOCYANURATE ROOF BOARD INSULATION SHALL MEET ASTM C 1289, TYPE I OR II	IBC TABLE 1508.2	C15-27
15.6	REROOFING	SHALL COMPLY WITH 1510	IBC 1510.1	C15-29
16	<b>STRUCTURAL DESIGN</b>	USE IBC CHAPTER 16 AND UFC 3-310-01 FOR STRUCTURAL LOADING DATA AND USE UFC 3-310-04 TOGETHER WITH IBC CH. 16 FOR SEISMIC DESIGN. <i>- CH. 16 REQ'S ARE STRUCTURAL IN SCOPE AND THEREFORE NOT PART OF THIS CODE ANALYSIS</i>	2-16	4
17	<b>STRUCTURAL TESTS AND INSPECTIONS</b>	USE IBC CH. 17 AS MODIFIED BY UFC 1-200-01 <i>- CH. 17 REQ'S ARE STRUCTURAL IN SCOPE AND THEREFORE NOT PART OF THIS CODE ANALYSIS</i>	2-17	4
18	<b>SOILS AND FOUNDATIONS</b>	USE IBC CH. 18. <i>- CH. 18 REQ'S ARE STRUCTURAL IN SCOPE AND THEREFORE NOT PART OF THIS CODE ANALYSIS</i>	2-18	5

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
19	CONCRETE	USE IBC CH. 19. <i>- CH. 19 REQ'S ARE STRUCTURAL IN SCOPE AND THEREFORE NOT PART OF THIS CODE ANALYSIS</i>	2-19	5
20	ALUMINUM	USE IBC CH. 20 <i>- CH. 20 REQ'S ARE STRUCTURAL IN SCOPE AND THEREFORE NOT PART OF THIS CODE ANALYSIS. DECA COMMISSARIES DO NOT TYPICALLY USE ALUMINUM IN A STRUCTURAL CAPACITY.</i>	2-20	5
21	MASONRY	USE IBC CH. 21 <i>- MOST CH. 21 REQ'S ARE STRUCTURAL IN SCOPE OR ARTICULATE REQUIREMENTS FOR GOOD AND ACCEPTABLE PRACTICES FOR MASONRY - WHICH ARE TYPICALLY SPECIFIED AND DETAILED WITH EVERY DECA FACILITY, AND THEREFORE NOT PART OF THIS CODE ANALYSIS WITH THE FOLLOWING EXCEPTIONS:</i>	2-21	5
21.1	MATERIALS	LOAD-BEARING CMU SHALL CONFORM TO ASTM C 90	IBC 2103	C21-15
		-HOLLOW, CLAY FACE BRICK SHALL CONFORM TO ASTM C 652	IBC 2103.2	C21-16
		-SOLID, CLAY FACE BRICK SHALL CONFORM TO ASTM C 216		
22	STEEL	USE IBC CH. 22 <i>- CH. 22 REQ'S ARE STRUCTURAL IN SCOPE AND THEREFORE NOT PART OF THIS CODE ANALYSIS</i>	2-22	5
23	WOOD	USE IBC CH. 23 <i>- MOST CH. 23 REQ'S ARE STRUCTURAL IN SCOPE OR ARTICULATE REQUIREMENTS FOR GOOD AND ACCEPTABLE PRACTICES FOR WOOD PRODUCT USAGE - WHICH ARE TYPICALLY SPECIFIED AND DETAILED WITH EVERY DECA FACILITY, AND THEREFORE NOT PART OF THIS CODE ANALYSIS.</i>	2-23	5
24	GLASS AND GLAZING	USE IBC CH. 24	2-24	5

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
24.1	SAFETY GLAZING	<p>THE FOLLOWING GLAZED AREAS SHALL BE CONSIDERED HAZARDOUS LOCATIONS REQUIRING SAFETY GLAZING MATERIALS:</p> <ol style="list-style-type: none"> <li>1. SWINGING DOORS ( ADMIN. ENTRY DOORS )</li> <li>2. FIXED AND SLIDING PANELS OF SLIDING DOORS ( AUTO-ENTRY DOORS )</li> <li>3. GLAZING WITHIN 24" HORIZ. OF A DOOR JAMB AND WHERE BOTTOM OF PANE IS LESS THAN 60" ABOVE FLOOR.( CURTAIN WALLS AND STOREFRONT ADJACENT TO ENTRY DOORS) .</li> <li>4. GLAZING IN A WINDOW PANE &gt; 9 S.F. <u>AND</u> EXPOSED BOTTOM EDGE &lt; 18 " A.F.F. <u>AND</u> EXPOSED TOP EDGE &gt; 36" <u>AND</u> WITHIN 3' HORIZ. OF A WALKING SURFACE.</li> </ol> <p><b><i>THE FIRST 3 ARE TYPICAL SAFETY GLAZING LOCATIONS IN DECA COMMISSARIES. THE 4TH LOCATION CAN BE ELIMINATED BY SIMPLY ADDING A HORIZONTAL MULLION SOMEWHERE BETWEEN 18" AND 36" A.F.F. - WHICH IS TYPICAL IN MOST DECA COMMISSARY CURTAIN WALL &amp; STOREFRONT DESIGNS.</i></b></p>	IBC 2406.3	C24-14
		SAFETY GLAZING MUST BE IDENTIFIED BY A MANUFACTURER'S MARK PER 2406.2 , EXCEPT AS NOTED IN 2406.2.1	IBC 2406.2	C24-14
		WALL-MOUNTED MIRRORS ARE EXEMPT FROM SAFETY GLAZING	IBC 2406.3.1	C24-22
25	GYPSUM BOARD AND PLASTER	<p>USE IBC CH. 25</p> <p><b><i>- MOST CH. 21 REQ'S ARTICULATE REQUIREMENTS FOR GOOD AND ACCEPTABLE PRACTICES - WHICH ARE TYPICALLY SPECIFIED AND DETAILED WITH EVERY DECA FACILITY, AND THEREFORE NOT PART OF THIS CODE ANALYSIS WITH THE FOLLOWING EXCEPTIONS:</i></b></p>	2-25	5
		<p>- 1/2" MOISTURE RESISTANT GWB IS NOT PERMITTED ON CEILINGS WHERE FRAME SPACING EXCEEDS 12" O.C.</p> <p>- 5/8" MOISTURE RESISTANT GWB IS NOT PERMITTED ON CEILINGS WHERE FRAME SPACING EXCEEDS 16" O.C.</p>	IBC 2509.3	C25-13
26	PLASTIC	<p>USE IBC CH. 26</p> <p><b><i>- MOST CH. 26 REQ'S ARTICULATE REQUIREMENTS OF PRODUCTS WHICH ARE NOT FOUND IN TYPICAL DECA COMMISSARY AND IS THEREFORE NOT PART OF THIS CODE ANALYSIS WITH THE FOLLOWING EXCEPTIONS:</i></b></p>	2-26	5
26.1	FOAM PLASTIC INSULATION	<p><b><i>NOTE : THE FOAM PLASTIC NOTED IN THE FOLLOWING SECTIONS WOULD ENCOMPASS THE RIGID INSULATION TYPICALLY USED WITHIN DECA COMMISSARY ROOFING AND MASONRY CAVITY WALLS AS WELL AS THE INSULATION MATERIAL WITHIN COOLER AND FREEZER WALL PANELS.</i></b></p>		
		FOAM PLASTIC INSULATION SHALL BE SEPARATED FROM THE INTERIOR OF THE BUILDING BY A MINIMUM OF 1/2" GWB WHEN INSTALLED IN COMPLIANCE WITH IBC 2603.4	IBC 2603.4	C26-5

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
		EXCEPTIONS: - FOAM PLASTIC WITHIN A MASONRY CAVITY WALL WHERE THERE IS AT LEAST A 1" MASONRY COVERAGE SEPARATING THE INSULATION FROM THE BUILDINGS INTERIOR.	IBC 2603.4.1.1	C26-6
		- FOAM PLASTIC THAT IS PART OF A CLASS A, B, OR C ROOF-COVERING ASSEMBLY	IBC 2603.4.1.5	C26-7
		- FOAM PLASTIC COOLER / FREEZER WALLS THAT MEETS ALL THE FOLLOWING : 1. HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 WHERE TESTED IN A MINIMUM 4" THICKNESS. 2. HAVE A COVERING OF NOT LESS THAN .032-INCH ALUMINUM OR CORROSION-RESISTANT STEEL HAVING A BASE METAL THICKNESS OF NOT LESS THAN 0.0160 INCHES. 3. HAVE FLASH IGNITION AND SELF-IGNITION TEMPS. OF NOT LESS THAN 600 AND 800 DEGREES F., RESPECTIVELY. 4. BE IN AN AREA OF A BUILDING PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM.	IBC 2603.4.1.2	C26-6
		- FOAM PLASTIC IN OR ON EXTERIOR WALLS IN ONE STORY BUILDINGS WHERE IT IS NOT MORE THAN 4" THICK; HAS A FLAME SPREAD OF NOT GREATER THAN 25; HAS A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450; IN A BUILDING EQUIPPED THROUGHOUT WITH AN AUTO SPRINKLER SYSTEM; IS COVERED WITH A METAL FACING PER 2603.4.1.4	2603.4.1.4	C26-7
26.2	FOAM PLASTIC FINISH AND TRIM	FOAM PLASTIC INSTALLED AS INTERIOR TRIM MUST MEET SECTIONS 2604.2.1 - 4 WHICH INCLUDES DENSITY, THICKNESS, AREA LIMITATION AND FLAME SPREAD.	IBC 2604.2	C26-13
27	<b>ELECTRICAL</b>	USE IBC CH. 27 AND UFC 1-200-01 PARAGRAPH 1-2.1 <b>- CH. 27 REQ'S ARE NOT PART OF THIS CODE ANALYSIS</b>	2-27	5 & 1
28	<b>MECHANICAL SYSTEMS</b>	USE IBC CH. 28 AND UFC 3-410-02N FOR NAVY AND MARINE CORPS FACILITIES. FOR ARMY AND AIR FORCE FACILITIES, DELETE IBC CH. 28 AND USE UFC 3-410-01FA. <b>- CH. 28 REQ'S ARE NOT PART OF THIS CODE ANALYSIS</b>	2-28	5 & 6
29	<b>PLUMBING SYSTEMS</b>	USE IBC CH. 29 AND UFC 3-420-01 <b>- CH. 29 REQ'S ARE NOT PART OF THIS CODE ANALYSIS</b>	2-29	6
29.1	MINIMUM NUMBER	NUMBER OF FIXTURES SHALL FOLLOW TABLE 2902.1 AND BE BASED ON NUMBER OF OCCUPANTS. THE NUMBER OF OCCUPANTS SHALL BE DETERMINED THE SAME AS FOR MEANS OF EGRESS OCCUPANT LOAD (UFC REPLACES IBC CH. 7 WITH NFPA CH. 7 ).  USING THE OCCUPANT LOAD FROM NFPA , AND THE AREA OCCUPANCY CLASSIFICATION FROM IBC, CH. 3, REFER TO TABLE 2902.1 ( THESE TABLES ARE REPRODUCED FROM INTERNATIONAL PLUMBING CODE 403.1 PAGE 23,24 )	IBC 2902.1	C29-1

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NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE																							
		<table border="1"> <thead> <tr> <th>WATER CLOSET / OCCUPANT</th> <th>LAVATORY / OCCUPANT</th> <th>DRINKING FOUNTAIN / OCCUPANT</th> </tr> </thead> <tbody> <tr> <td>MERCANTILE</td> <td>1 / 500</td> <td>1 / 750</td> <td>1 / 1,000</td> </tr> <tr> <td>STORAGE</td> <td>1 / 100</td> <td>1 / 100</td> <td>1 / 1,000</td> </tr> <tr> <td>FACTORY</td> <td>1 / 100</td> <td>1 / 100</td> <td>1 / 400</td> </tr> <tr> <td>BUSINESS (NON-NAVY)</td> <td>1 / 25 UP TO 50</td> <td>1 / 40 UP TO 80</td> <td>1 / 100</td> </tr> <tr> <td></td> <td>THEN 1 PER 50</td> <td>THEN 1 / 80</td> <td>1 / 100</td> </tr> </tbody> </table>	WATER CLOSET / OCCUPANT	LAVATORY / OCCUPANT	DRINKING FOUNTAIN / OCCUPANT	MERCANTILE	1 / 500	1 / 750	1 / 1,000	STORAGE	1 / 100	1 / 100	1 / 1,000	FACTORY	1 / 100	1 / 100	1 / 400	BUSINESS (NON-NAVY)	1 / 25 UP TO 50	1 / 40 UP TO 80	1 / 100		THEN 1 PER 50	THEN 1 / 80	1 / 100	IBC TABLE 2902.1	C29-2
WATER CLOSET / OCCUPANT	LAVATORY / OCCUPANT	DRINKING FOUNTAIN / OCCUPANT																									
MERCANTILE	1 / 500	1 / 750	1 / 1,000																								
STORAGE	1 / 100	1 / 100	1 / 1,000																								
FACTORY	1 / 100	1 / 100	1 / 400																								
BUSINESS (NON-NAVY)	1 / 25 UP TO 50	1 / 40 UP TO 80	1 / 100																								
	THEN 1 PER 50	THEN 1 / 80	1 / 100																								
	BUSINESS ( NAVY )	1 / 20 UP TO 100 THEN 1 PER 40	1 / 20 UP TO 100 THEN 1 PER 45	1 / 75	UFC 3-420-01 403.1 D.	A-4																					
		<p>ADDITIONAL NOTES:</p> <ul style="list-style-type: none"> <li>- ADD TOTALS AND DIVIDE WATER CLOSETS AND LAVATORIES BY 2. PROVIDE THIS NEW NUMBER ( ROUNDED UP IF IT IS A FRACTION ) FOR EACH SEX.</li> <li>- PROVIDE A MINIMUM OF 1 SERVICE SINK OR FLOOR SINK TOTAL PER FLOOR ( STORY ) WHERE ACCESSIBLE BY ALL OCCUPANCIES</li> <li>- URINALS ( NON-NAVY ) URINALS CAN REPLACE A MAXIMUM OF 2/3 OF THE TOILETS. EACH TOILET ROOM MUST HAVE AT LEAST ONE WATER CLOSET.</li> <li>- URINALS ( NAVY ONLY ) URINALS CAN REPLACE A MAXIMUM OF 1/3 THE TOILETS RATHER THAN THE TYP. 2/3</li> </ul>	UFC 3-420-01 403 D.	A-4																							
29.3	UNISEX TOILET ROOMS	<p>IN MERCANTILE OCCUPANCIES, AN ACCESSIBLE UNISEX TOILET ROOM SHALL BE PROVIDED WHERE AN AGGREGATE OF SIX OR MORE MALE <u>OR</u> FEMALE WATER CLOSETS ARE REQUIRED. USE ONLY MERCANTILE AREA FOR THIS REQUIREMENT. THE WATER CLOSET IN THIS UNISEX TOILET ROOM IS ALLOWED TO COUNT TOWARD TO TOTAL FIXTURES REQUIRED.</p> <p><b>A MERCANTILE FLOOR AREA OF 180,000 S.F OR LARGER WOULD QUALIFY FOR THIS REQUIREMENT : ( 180,000 S.F. X 1 OCC. / 30 S.F. = 6,000 OCCUPANTS 6,000 OCC. X 1 WC / 500 OCC. = 12 WC. = 6 WC MEN / WOMEN</b></p>	INTERNAT'L PLUMBING CODE 404.2	25																							
30	ELEVATOR AND CONVEYING SYSTEMS	USE IBC CH.30 AND UFC 3-600-01, AND ITG 01-01. WHEN UFC 3-490-06 IS PUBLISHED, USE IBC CH. 30, UFC 3-600-01 AND UFC 3-490-06.	2-30	6																							
30.1	GENERAL REQUIREMENTS	PASSENGER ELEVATORS SHALL CONFORM TO ICC A117.1. <b>- ICC A117.1 CONTAINS REQ'S FOR OPERATIONS, CLEARANCES, CALLS, BUTTONS, MARKINGS ETC.</b>	IBC 3001.3	C30-2																							
30.2	FIRE-RATING	HOISTWAY ENCLOSURE SHALL BE A SHAFT ENCLOSURE AND SHALL FOLLOW REQ'S OF IBC CH. 7 1-HR. RATED ENCLOSURE ( LESS THAN 4 STORIES) - EXCEPTION : NAVY AND DLA PROJECTS REQUIRE A 2-HOUR FIRE RESISTANT CONSTRUCTION FOR ALL ELEVATOR HOISTWAYS	IBC 3002.1.1  IBC 707.4 UFC 3-600-01 6-30.1	C30-2  C7-43 83																							

# The Jenkins Group

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CODE ANALYZED : **UNIFIED FACILITIES CRITERIA UFC 1-200-01, 27 NOV 2007**

NO.	ITEM	SUMMARY OF REQUIREMENTS	REFERENCE	PAGE
		DO NOT PROVIDE ANYTHING THRU THE HOISTWAY SHAFT ( I.E. PIPES OR DUCTWORK) THAT IS NOT SPECIFICALLY FOR THE HOISTWAY	IBC 707.7.1	C7-46
		OPENINGS IN HOISTWAY WALLS REQ. A 1 HOUR DAMPER	IBC TABLE 715.4	C7-91
30.3	EMERGENCY SIGNS	PROVIDE "IN FIRE EMERGENCY, DO NOT USE ELEVATOR. USE EXIT STAIRS." PICTOGRAPH	IBC 3002.3	C30-3
30.4	ELEVATOR AND STAIRS	AN ELEVATOR CANNOT BE IN THE SAME ENCLOSURE AS A STAIR	IBC 3002.7	C30-4
30.5	SECONDARY POWER	WHERE A BUILDING HAS ONLY ONE ELEVATOR, THE ELEVATOR SHALL AUTOMATICALLY TRANSFER TO STANDBY POWER WITHIN 60 SECONDS AFTER NORMAL POWER FAILURE	IBC 3003.1.2	C30-4
30.6	EMERGENCY OPERATIONS	ELEVATORS SHALL BE EQUIPPED WITH PHASE I ( EMERGENCY RECALL) AND PHASE II ( IN-CAR OPERATION) OPERATIONS	IBC 3003.2	C30-5
30.7	MACHINE ROOMS	1-HR FIRE RATED FIRE BARRIER WALLS WITH 1-HR FIRE RATED DOORS - IBC DOES NOT SPECIFICALLY NOTE WALL RATING FOR MACHINE ROOMS BUT REQ. CAN BE INFERRED FROM TEXT	IBC 3006.4	C30-9