

2.0 AIRPLANE DESCRIPTION

- 2.1 General Characteristics
- 2.2 General Dimensions
- 2.3 Ground Clearances
- 2.4 Interior Arrangements
- 2.5 Cabin Cross Sections
- 2.6 Lower Cargo Compartment Capacities
- 2.7 Door Clearances

2.0 AIRPLANE DESCRIPTION

2.1 General Characteristics—Models 727-100, -100C, -200, and Advanced 727-200 (Definition of terms used on following pages)

Maximum Ramp Weight. Maximum weight authorized for ground maneuver by the applicable government regulations, including taxi and runup fuel. Also designated in some manuals as maximum design taxi weight.

Maximum Landing Weight. Maximum weight authorized, at designated flap setting, in flight or landing, by the applicable government regulations.

Maximum Takeoff Weight. Maximum weight authorized at takeoff brake release by the applicable government regulations; excludes taxi and runup fuel.

Maximum Flight Weight. Maximum weight for flight as limited by aircraft strength and airworthiness requirements. (Flaps-up condition is implied unless otherwise stated.)

Operating Empty Weight. Weight of structure, powerplant, furnishings, systems, unusable fuel and other unusable propulsion agents, and other items of equipment that are considered an integral part of a particular aircraft configuration. Also included are certain standard items, personnel, equipment, and supplies necessary for full operating, excluding fuel and payload.

Zero Fuel Weight. Maximum airplane weight less usable fuel, engine injection fluid, and other consumable propulsion agents. It may include usable fuel in specified tanks when carried in lieu of payload. The addition of usable and consumable items to the zero fuel weight must be in accordance with the applicable government regulations so that airplane structure and airworthiness requirements are not exceeded.

Maximum Structural Payload. Maximum design payload weight of passengers, passenger baggage, and/or cargo may be computed for a specific model by deducting the operating empty weight from zero fuel weight.

Maximum Seating Capacity. Maximum number of passengers specifically certificated or anticipated for certification.

Maximum Cargo Volume. Maximum space available for cargo.

Usable Fuel Capacity. Volume of fuel carried for a particular operation less drainable unusable fuel and trapped fuel remaining after a fuel runout test.

		727-100*		
CHARACTERISTIC		BASIC	OPTIONAL	OPTIONAL
MAXIMUM RAMP WEIGHT	LB	161,000	161,000	170,000
	KG	73,100	73,100	77,200
MAXIMUM FLIGHT WEIGHT	LB	160,000	160,000	169,000
	KG	72,600	72,600	76,700
MAXIMUM LANDING WEIGHT	LB	137,500	142,500	142,500
	KG	62,400	64,700	64,700
ZERO FUEL WEIGHT	LB	118,000	118,000	123,500
	KG	53,600	53,600	56,100
OPERATING EMPTY WEIGHT (SPEC.)	LB	87,600	87,600	87,696
	KG	39,800	39,800	39,800
MAXIMUM STRUCTURAL PAYLOAD (SPEC.)	LB	30,400	30,400	35,800
	KG	13,800	13,800	16,300
SEATING CAPACITY SEE PAGE 15	TYPICAL MIXED 106 (16 FIRST CLASS, 90 TOURIST)			
	TYPICAL TOURIST 125 (ALL TOURIST)			
	CERTIFICATED FOR 131 (EXIT LIMIT 131)			
CARGO VOLUME— UPPER DECK	CU FT	— NONE —		
	CU M			
CARGO VOLUME— LOWER DECK SEE PAGE 22	CU FT	900		
	CU M	25		
USABLE FUEL CAPACITY— BASIC	U.S. GAL	7,680**		
	L	29,069		
	LB	51,460		
	KG	23,360		
USABLE FUEL CAPACITY— OPTIONAL	U.S. GAL	-		
	L	-		
	LB	-		
	KG	-		

* REFERENCE DATA; NO LONGER IN PRODUCTION.

** SOME 727-100 AIRPLANES HAVE 7,174 GAL., 27,154 L,
48,070 LB, 21,820 KG FUEL CAPACITY.

NOTE: CONSULT USING AIRLINE FOR SPECIFIC DATA.

GENERAL CHARACTERISTICS

MODEL 727-100 (PASSENGER)

		727-100C*		
CHARACTERISTIC		PRIMARY**	ALT. I**	ALT. II**
MAXIMUM RAMP WEIGHT	LB	161,000	161,000	170,000
	KG	73,100	73,100	77,200
MAXIMUM FLIGHT WEIGHT	LB	160,000	160,000	169,000
	KG	72,600	72,600	76,700
MAXIMUM LANDING WEIGHT	LB	137,500	140,000	142,500
	KG	62,400	63,600	64,700
ZERO FUEL WEIGHT	LB	123,500	123,500	132,000
	KG	56,100	56,100	59,900
OPERATING EMPTY WEIGHT (SPEC.)	LB	91,100	91,100	91,100
	KG	41,400	41,400	41,400
MAXIMUM STRUCTURAL PAYLOAD***	LB	32,400	32,400	40,900
	KG	14,700	14,700	18,600
SEATING CAPACITY SEE PAGE 15	TYPICAL MIXED 106 (16 FIRST CLASS, 90 TOURIST)			
	TYPICAL TOURIST 125 (ALL-TOURIST)			
	CERTIFICATED FOR 131 (EXIT LIMIT 131)			
CARGO VOLUME— UPPER DECK SEE PAGES 16 & 17	CU FT (CU M)	725 (20.53) 70 PASSENGERS, 2 PALLETS 1091 (30.90) 56 PASSENGERS, 3 PALLETS 1457 (41.26) 52 PASSENGERS, 4 PALLETS 2921 (82.7) EIGHT 108-IN. PALLETS 3,278 (92.8) EIGHT 125-IN. PALLETS		
CARGO VOLUME— LOWER DECK SEE PAGE 22	CU FT	890		
	CU M	25		
MAXIMUM TOTAL CARGO VOLUME	CU FT	4,168		
	CU M	118		
USABLE FUEL CAPACITY— BASIC	U.S. GAL	7,680		
	L	29,069		
	LB	51,460		
	KG	23,360		
USABLE FUEL CAPACITY— OPTIONAL	U.S. GAL	-		
	L	-		
	LB	-		
	KG	-		

* REFERENCE DATA; NO LONGER IN PRODUCTION

** OPERATIONAL MODES WITH DIFFERENT CG RANGES

*** MAY BE LESS IF MAXIMUM LANDING WEIGHT LIMITATIONS OCCUR DUE TO FUEL RESERVES

NOTE: CONSULT USING AIRLINE FOR SPECIFIC DATA.

GENERAL CHARACTERISTICS

MODEL 727-100C (CONVERTIBLE)

		727-200 *				
CHARACTERISTIC		STANDARD*	ADVANCED			
			BASIC SPEC.	OPTIONS†		
MAXIMUM RAMP WEIGHT	LB	173,000	185,800	191,000	197,700	210,000
	KG	78,500	84,400	86,700	89,800	95,300
MAXIMUM TAKEOFF WEIGHT	LB	-	184,800	190,500	197,000	209,500
	KG	-	83,900	86,500	89,400	95,100
MAXIMUM FLIGHT WEIGHT	LB	172,000	-	-	-	-
	KG	78,100	-	-	-	-
MAXIMUM LANDING WEIGHT	LB	150,000	154,500**	154,500**	154,500**	161,000
	KG	68,100	70,100	70,100	70,100	73,100
ZERO FUEL WEIGHT	LB	136,000	138,000	140,000	140,000	144,000
	KG	61,700	62,700	63,600	63,600	65,400
OPERATING EMPTY WEIGHT (SPEC)	LB	97,650	97,600	97,770	98,040	100,700
	KG	44,330	44,310	44,390	44,510	45,720
MAXIMUM STRUCTURAL PAYLOAD ***	LB	38,350	40,400	42,230	41,960	43,300
	KG	17,410	18,340	19,170	19,050	19,660
SEATING CAPACITY SEE PAGE 18	TYPICAL MIXED 134 (20 FIRST CLASS, 114 TOURIST)					
	TYPICAL TOURIST 155					
	CERTIFIED FOR 189 (EXIT LIMIT 189)					
CARGO VOLUME— UPPER DECK	CU FT	_____ NONE _____				
	CU M					
CARGO VOLUME— LOWER DECK SEE PAGE 22 & 24	CU FT	1,525 (ALL BULK); 1,118 (CONTAINERIZED, INCL 260 BULK)				
	CU M	43 (ALL BULK); 32 (CONTAINERIZED, INCL. 7 BULK)				
MAXIMUM TOTAL CARGO VOLUME	CU FT	1,525				
	CU M	43				
USABLE FUEL CAPACITY— BASIC	U.S. GAL	8,090		8,060	8,105	
	L	30,620		30,510	30,680	
	LB	54,200		54,000	54,300	
	KG	24,600		24,500	24,650	
USABLE FUEL CAPACITY— OPTIONAL	U.S. GAL	10,570		10,540	10,585	
	L	40,000		39,900	40,060	
	LB	70,800		70,600	70,920	
	KG	32,140		32,050	32,200	

* REFERENCE DATA; NO LONGER IN PRODUCTION

** 161,000 LB (73,100 KG) OPTION AVAILABLE

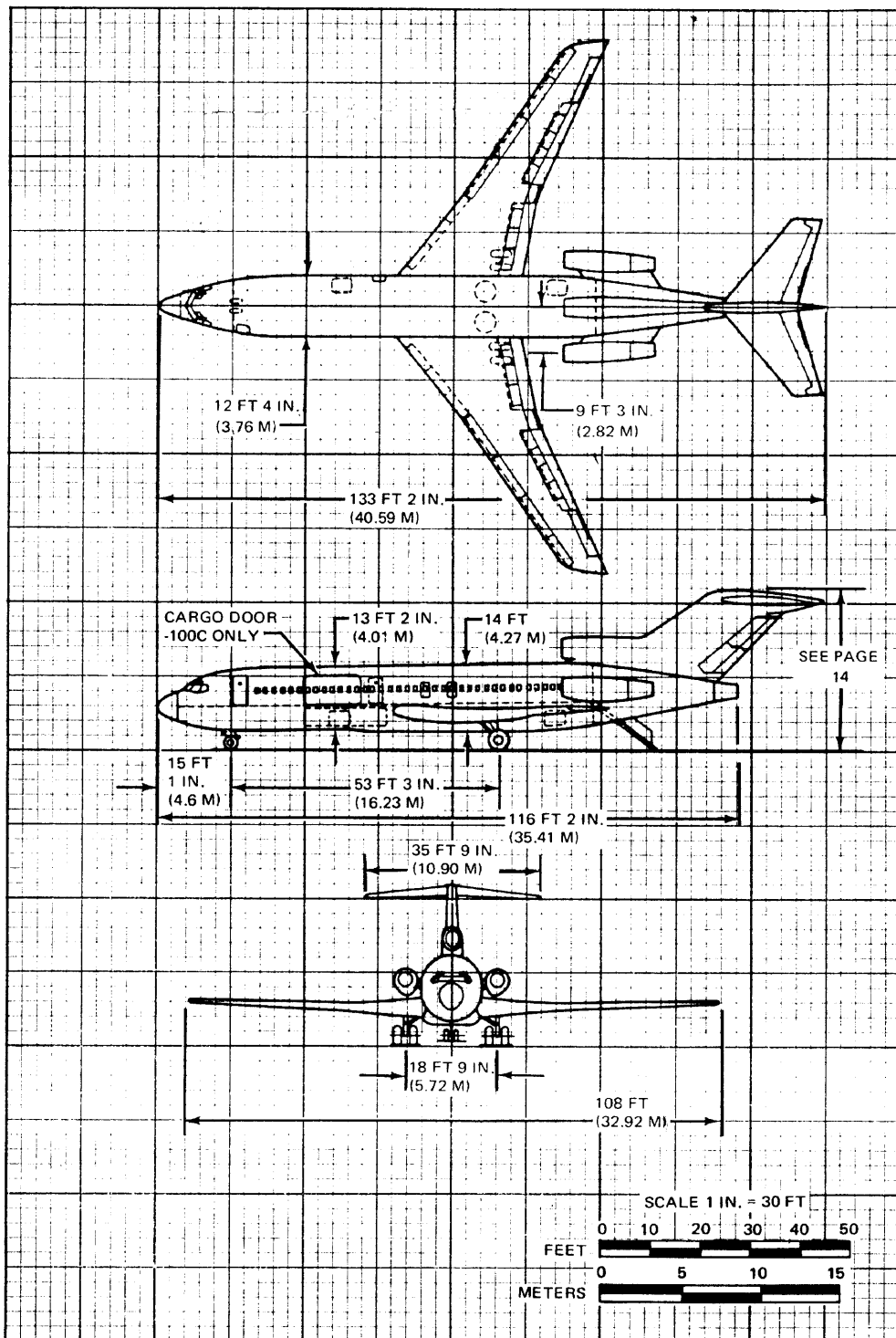
*** MAY BE LESS IF MAXIMUM LANDING WEIGHT LIMITATIONS OCCUR DUE TO FUEL RESERVES

† MAX. RAMP WT. OF 195,500 LB (88,760 KG) ALSO OPTIONAL

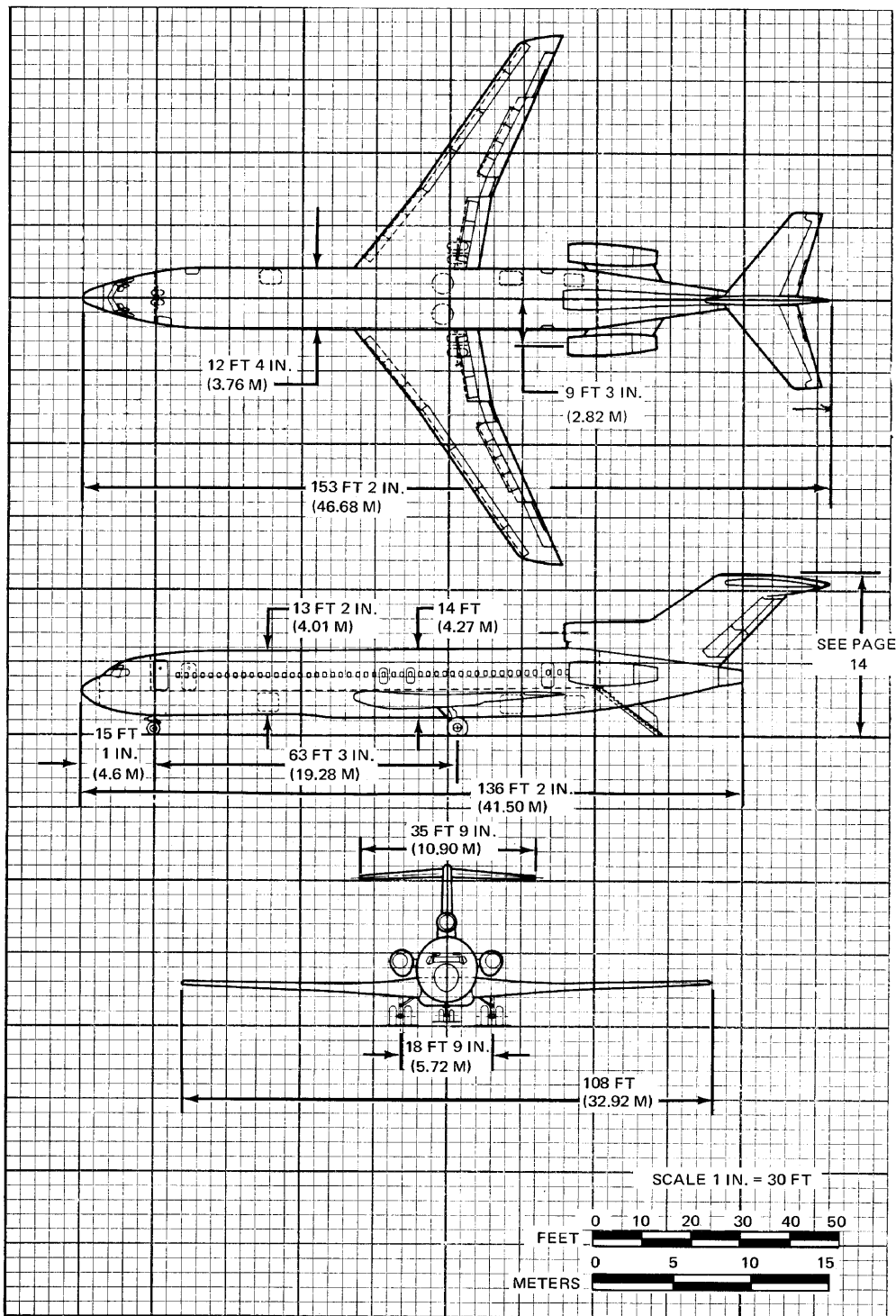
NOTE: CONSULT USING AIRLINE FOR SPECIFIC DATA.

GENERAL CHARACTERISTICS

MODEL 727-200

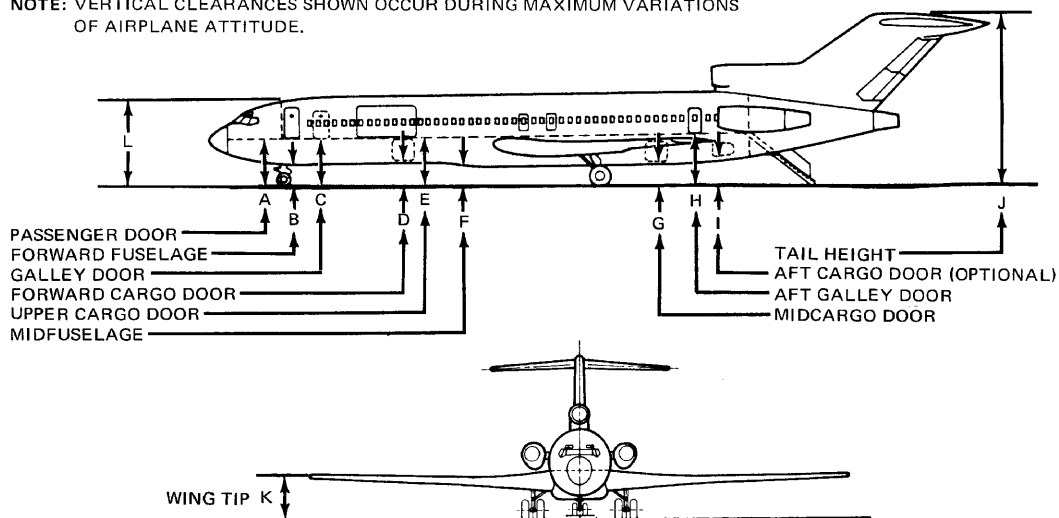


2.2 GENERAL DIMENSIONS
MODELS 727-100, -100C



GENERAL DIMENSIONS
MODEL 727-200

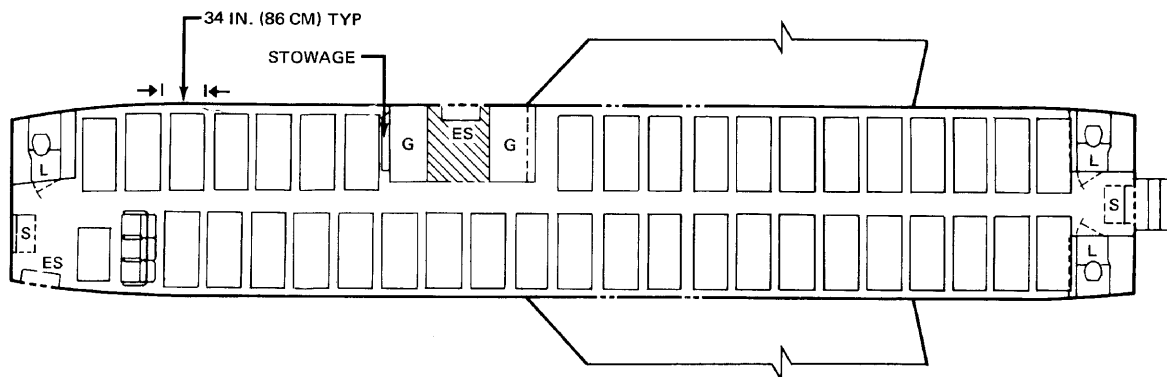
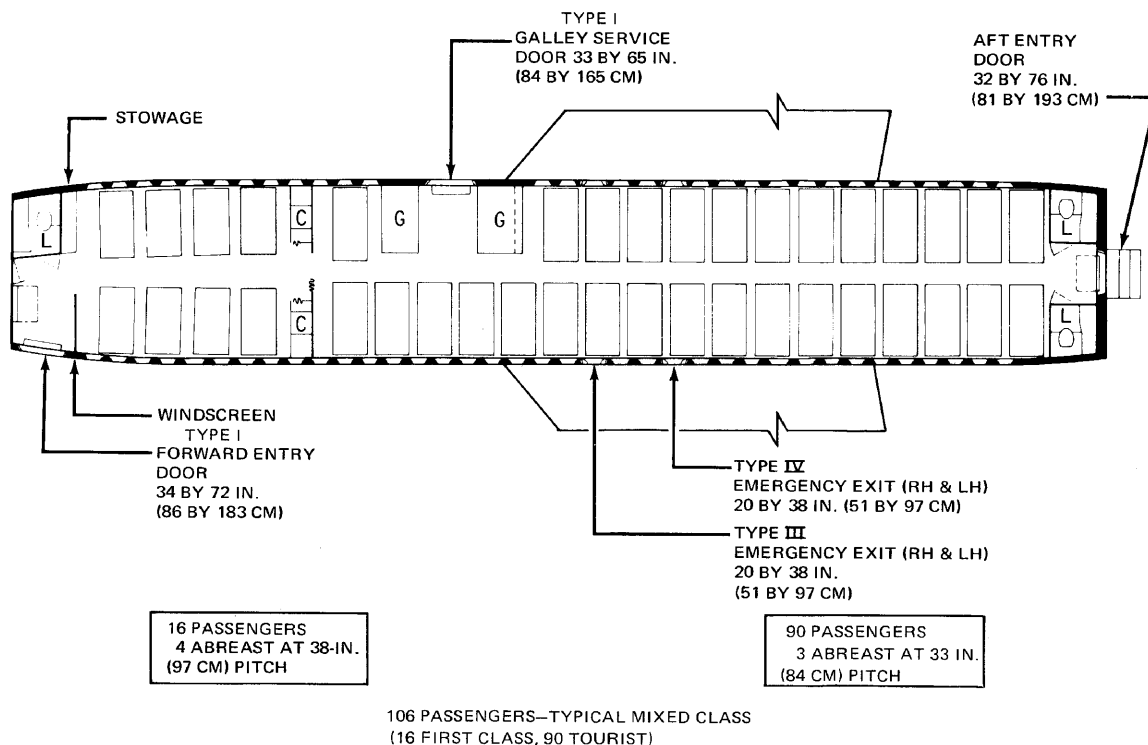
NOTE: VERTICAL CLEARANCES SHOWN OCCUR DURING MAXIMUM VARIATIONS OF AIRPLANE ATTITUDE.



VERTICAL CLEARANCES								
POINT	-100 AND -100C				-200			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	FT-IN.	M	FT-IN.	M	FT-IN.	M	FT-IN.	M
A	8-2	2.48	9-8	2.94	8-0	2.45	10-1	3.07
B	3-4	1.01	4-7	1.39	3-4	1.00	4-8	1.43
C	8-9	2.67	9-10	2.99	8-2	2.48	10-1	3.08
D	4-3	1.30	5-4	1.62	4-2	1.28	5-6	1.68
E	8-6	2.58	9-6	2.96	DOES NOT APPLY			
F	3-3	0.99	4-1	1.24	3-1	0.95	4-9	1.44
G	4-3	1.30	5-5	1.66	3-10	1.17	5-5	1.65
H	DOES NOT APPLY				9-0	2.74	10-10	3.31
I	DOES NOT APPLY				3-11	1.20	6-0	1.84
J	31-9	9.68	34-3	10.44	31-7	9.61	34-11	10.65
K	5-8	1.72	10-3	3.12	4-9	1.44	11-5	3.49
L	16-7	5.06	17-9	5.41	16-7	5.05	17-11	5.46

2.3 GROUND CLEARANCES

MODELS 727-100, -100C, -200

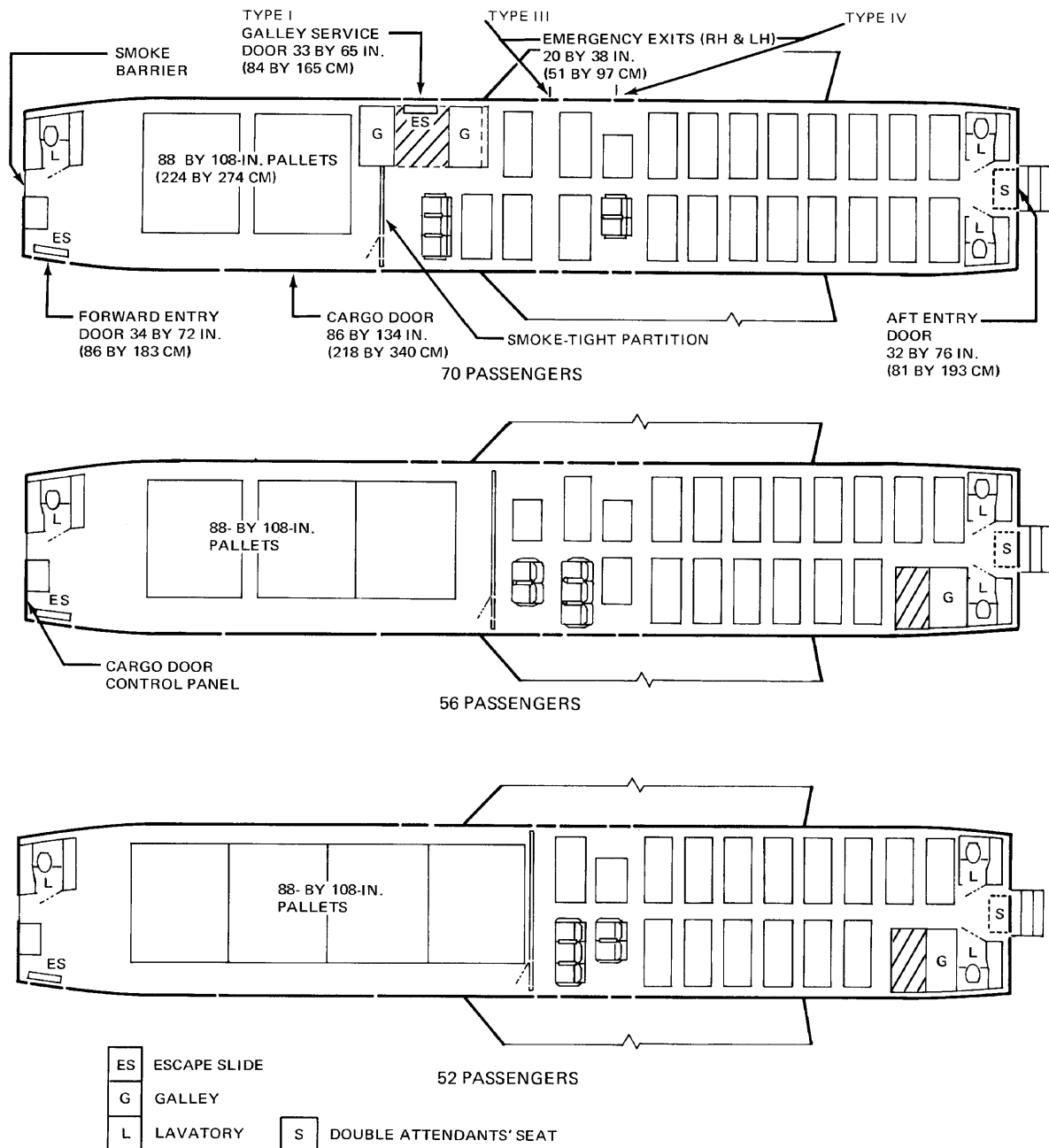


125 PASSENGERS—ALL-TOURIST
(MAXIMUM CERTIFICATED CAPACITY—129 PASSENGERS)

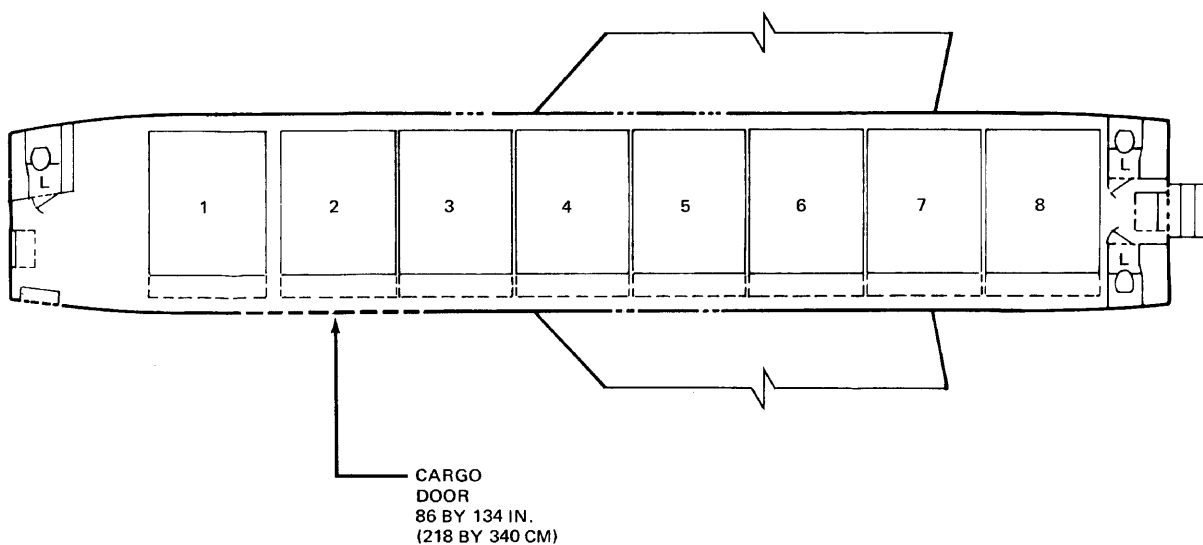
C	CLOSET	L	LAVATORY
ES	ESCAPE SLIDE	S	DOUBLE ATTENDANTS' SEAT
G	GALLEY		

2.4 INTERIOR ARRANGEMENTS—PASSENGER CONFIGURATION

MODELS 727-100, -100C



INTERIOR ARRANGEMENTS—PASSENGER/CARGO CONFIGURATION
MODEL 727-100C



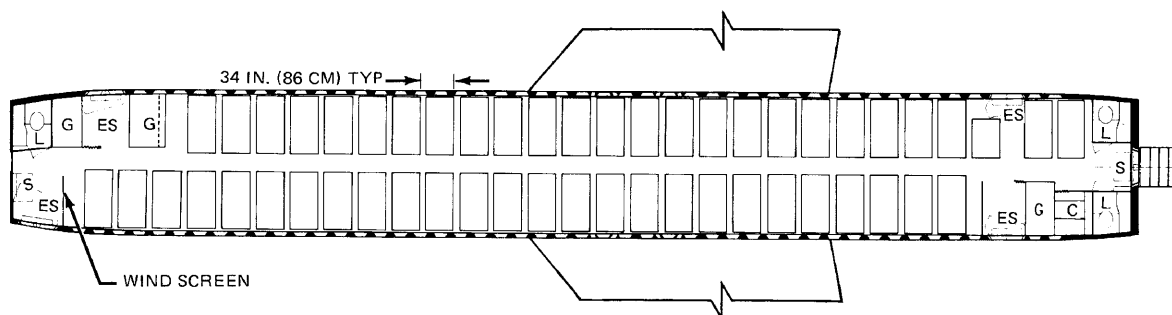
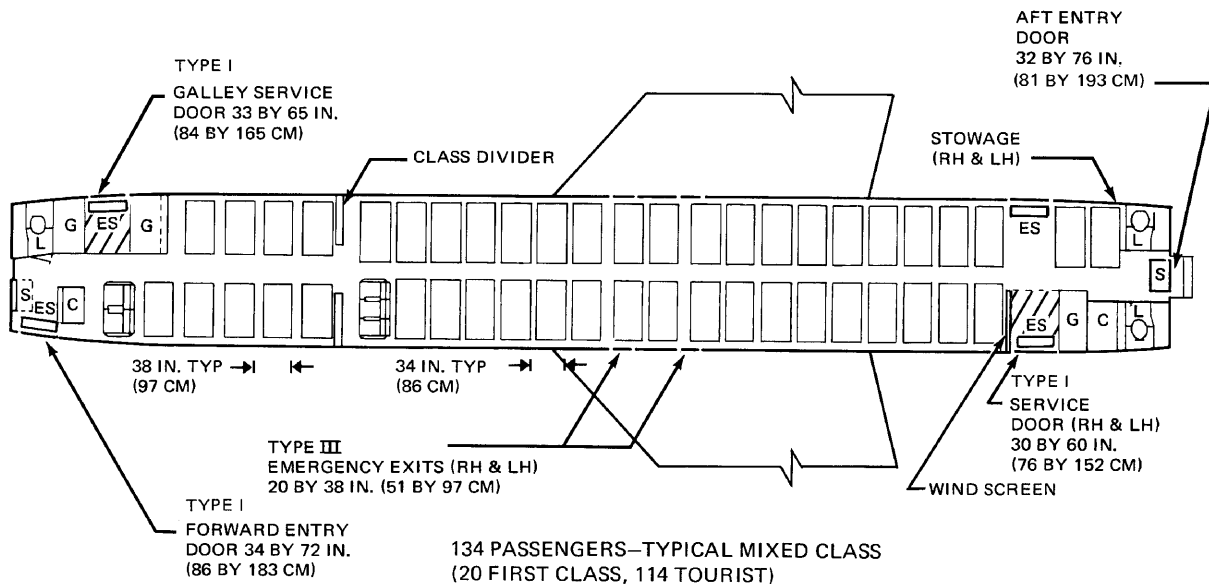
CONDITIONS

- HATRACKS UP
- 2-INCH CLEARANCE
- 9g COMMERCIAL PALLETS
- HIGH-PROFILE ROLLERS
- PALLET VOLUME NOT INCLUDED IN CARGO VOLUME

CARGO ENVELOPE VOLUMES IN CUBIC FEET (CUBIC METERS)

PALLET SIZE	88 BY 108 IN. (223 BY 274 CM)	88 BY 125 IN. (223 BY 318 CM)
MAIN DECK		
PALLET 1	359 (10.17)	401 (11.36)
PALLETS 2-8	366 (10.4) EACH 2,562 (72.56)	APPROX. 411 (11.6) EACH 2,877 (81.47)
LOWER DECK	890 (25.2)	890 (25.2)
TOTAL VOLUME	3,811 (107.9)	4,168 (118)

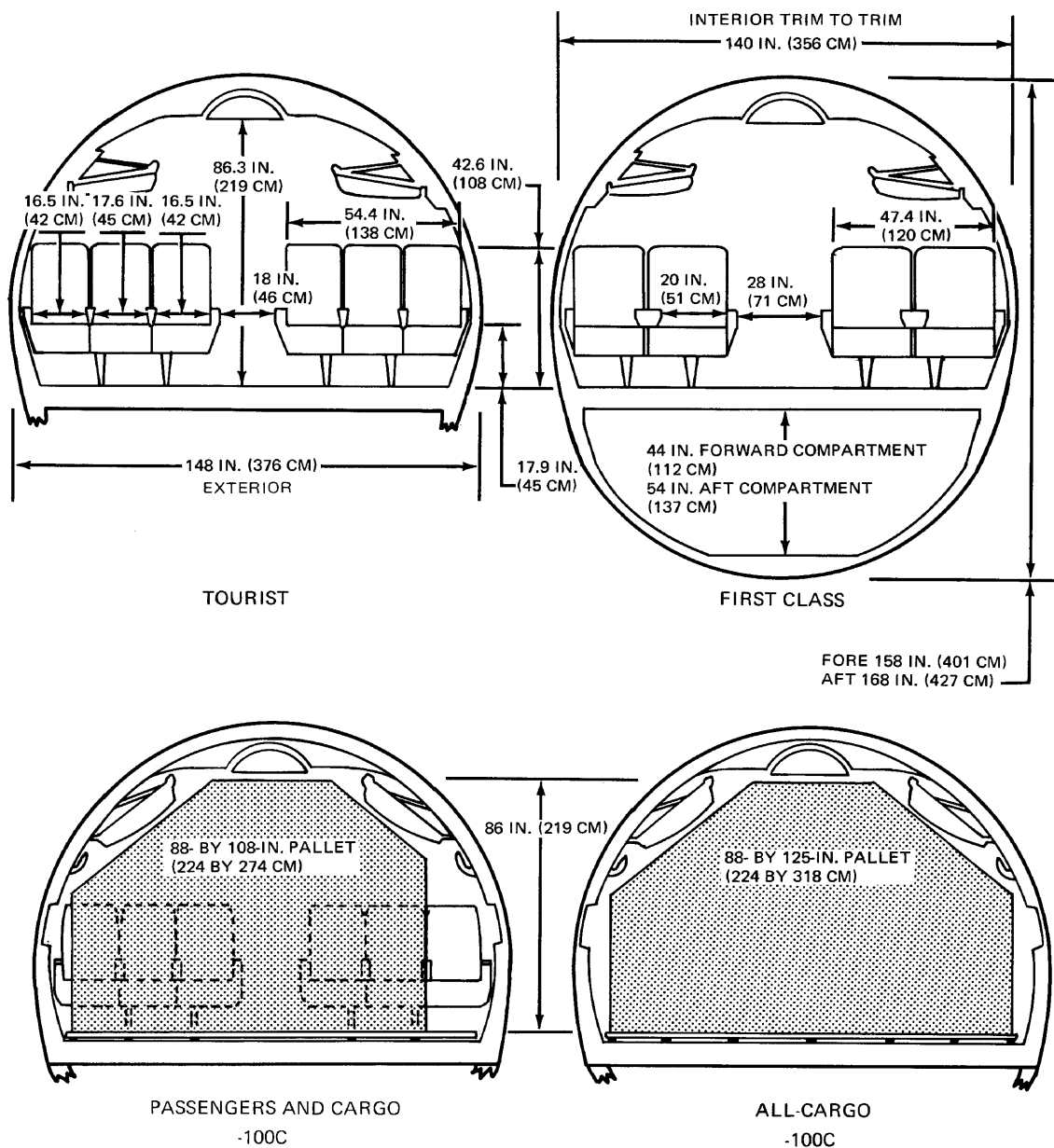
INTERIOR ARRANGEMENT—ALL-CARGO CONFIGURATION MODEL 727-100C



C	CLOSET
ES	ESCAPE SLIDE
G	GALLEY
L	LAVATORY
S	DOUBLE ATTENDANTS' SEAT

155 PASSENGERS—TYPICAL ALL-TOURIST
(MAXIMUM CERTIFICATED CAPACITY—189 PASSENGERS)

INTERIOR ARRANGEMENTS—PASSENGER CONFIGURATION MODEL 727-200

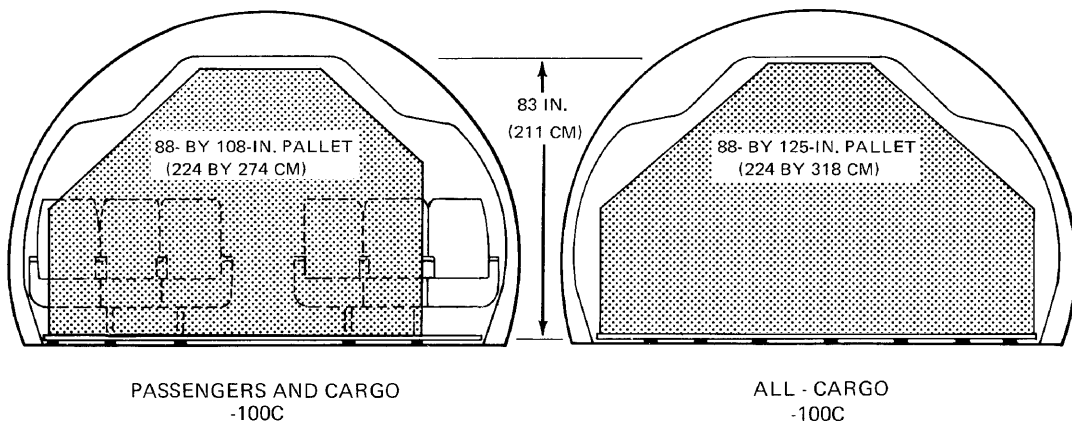
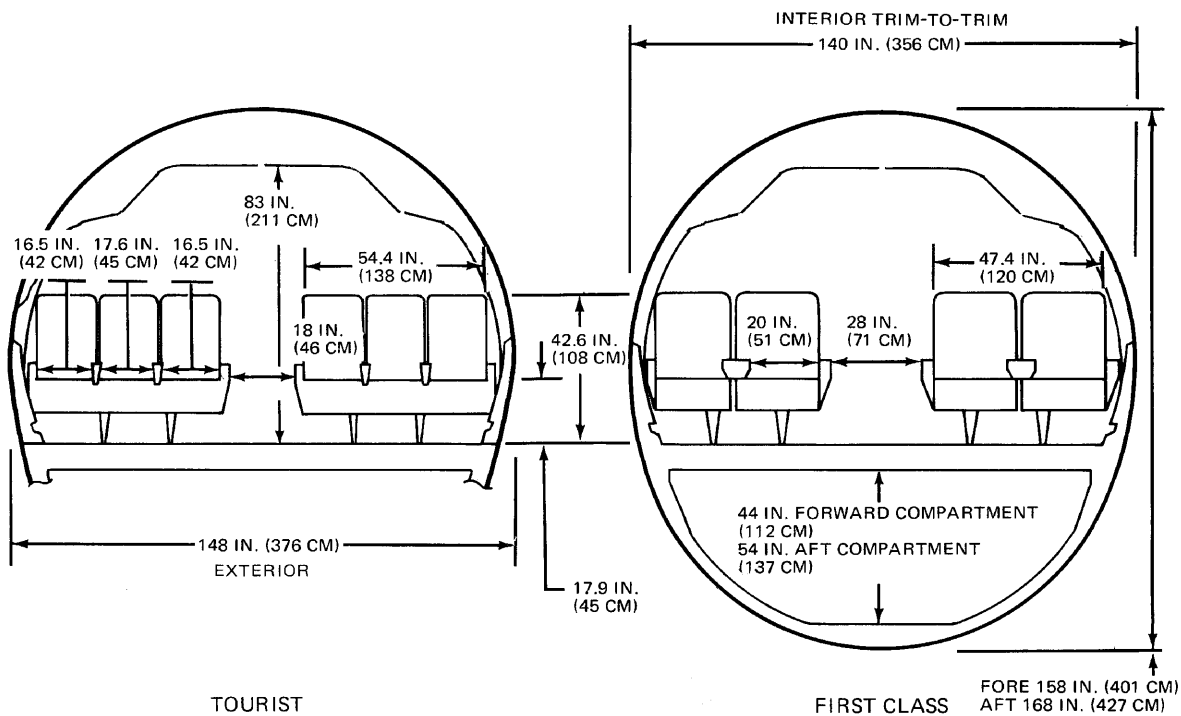


SEE PAGE 17 FOR MAIN-DECK CARGO CAPACITIES.

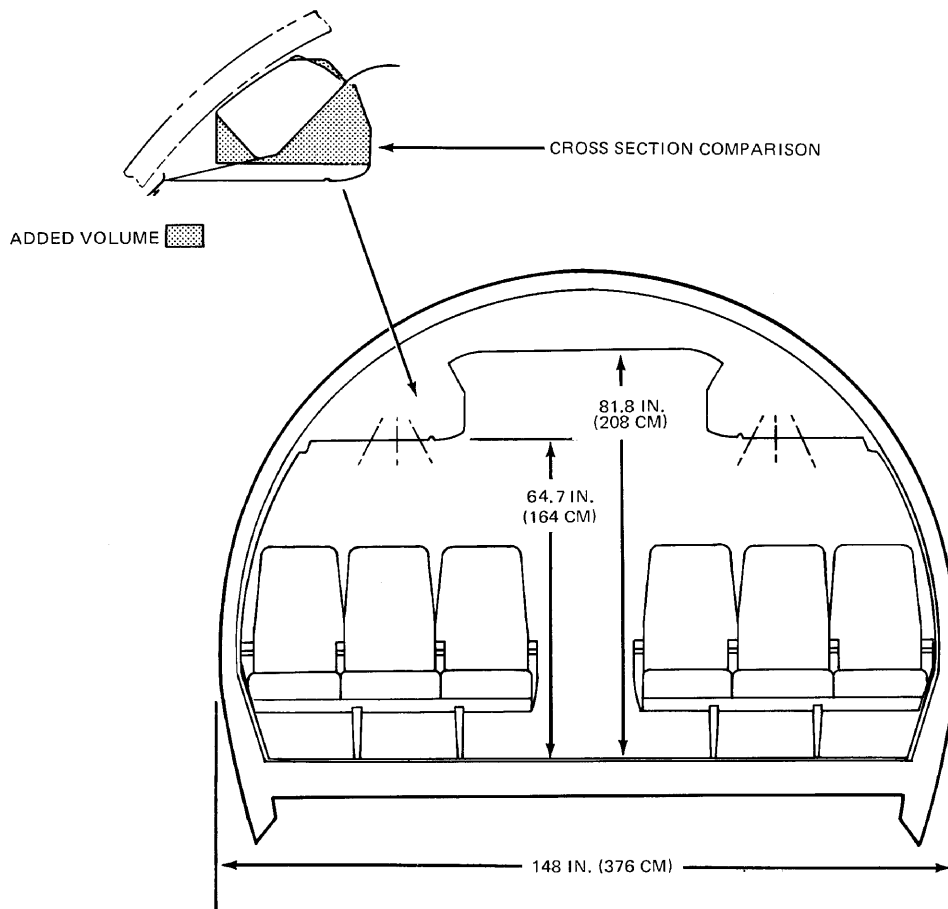
2.5 CABIN CROSS SECTIONS

MODELS 727-100, -100C, -200

NOTE: CURRENTLY THIS INTERIOR IS BASIC ON THE 727-200 AND ADVANCED 727-200;
IT MAY BE RETROFITTED ON THE 727-100 AND 727-100C.



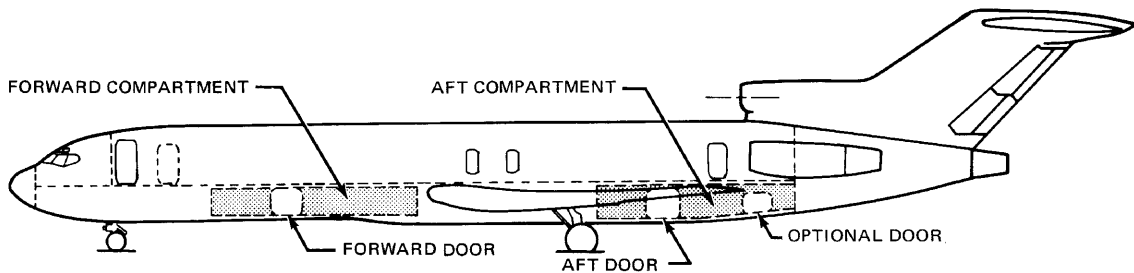
CABIN CROSS SECTIONS—SUPERJET-LOOK INTERIOR
MODELS 727-100, -100C, -200



INTEREST IN A HIGHER CAPACITY STOWAGE COMPARTMENT HAS RESULTED IN THE DEVELOPMENT OF A NEW OVERHEAD COMPARTMENT CAPABLE OF ACCEPTING LARGER CARRY-ON LUGGAGE AS WELL AS UNFOLDED GARMENT BAGS. THIS NEW CARRY-ALL COMPARTMENT IS OPTIONAL TO THE CURRENT WIDE-BODY STOWAGE BIN AND MAY BE RETROFITTED ON ADVANCED 727-200 AIRPLANES.

THE COMPARTMENT IS 60 INCHES (152 CM) LONG WITH A USABLE LENGTH OF 57.9 INCHES (147 CM) AND A WEIGHT CAPACITY OF 3 POUNDS PER INCH (0.54 KG PER CM) AS COMPARED WITH 2 POUNDS PER INCH (0.36 KG PER CM) FOR THE WIDE BODY STOWAGE BIN.

CABIN CROSS SECTIONS—CARRY-ALL OVERHEAD STOWAGE COMPARTMENT
MODEL ADVANCED 727-200 PASSENGER CONFIGURATION



CARGO COMPARTMENT DIMENSIONS AND CAPACITIES

NOTE: SEE PAGE 23 FOR ADVANCED 727-200 BULK CAPACITIES ASSOCIATED WITH ADDITIONAL FUEL OPTIONS.

		MODEL			
		-100	-100C	-200	-200 WITH OPTIONAL CARGO DOOR
FORWARD COMPARTMENT	LENGTH	IN. CM	199 505	320 813	320 813
	BULK VOLUME	CU FT CU M	425 12.0	710 20.1	710 20.1
	WEIGHT LIMIT	LB KG	5,850 2,656	9,000 4,086	9,000 4,086
	AFT COMPARTMENT				
AFT COMPARTMENT	LENGTH	IN. CM	214 544	316 803	316 803
	BULK VOLUME	CU FT CU M	475 13.5	815 23.1	745 21.1
	WEIGHT LIMIT	LB KG	6,980 3,169	10,000 4,540	10,000 4,540

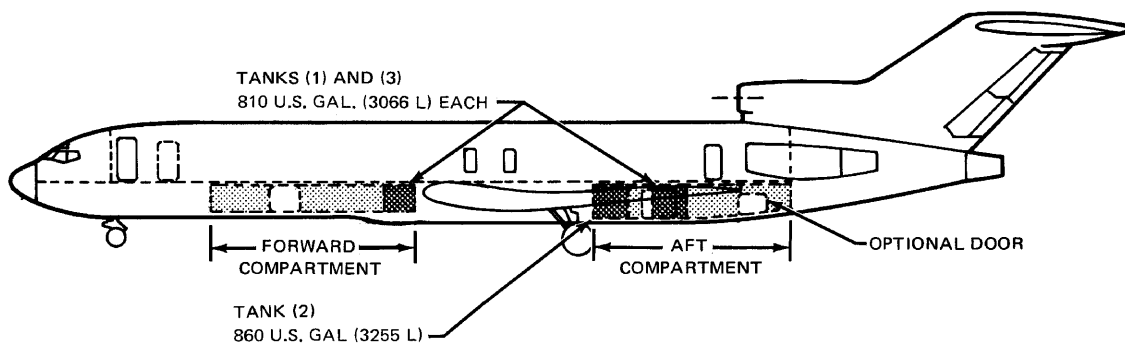
DOOR OPENING SIZES

		MODEL	
		-100 & -100C	-200
FORWARD DOOR	WIDTH	IN. CM	48 122
	HEIGHT	IN. CM	35 89
			42 107
AFT DOOR	WIDTH	IN. CM	48 122
	HEIGHT	IN. CM	35 89
			44 112
OPTIONAL DOOR	WIDTH	IN. CM	NONE —
	HEIGHT	IN. CM	— —
			48 122 32 81

NOTES: ● ALL DOORS ON RIGHT SIDE OF AIRPLANE
● OPTIONAL DOOR NOT ON -100 OR -100C AND OPTIONAL ON -200

2.6 LOWER CARGO COMPARTMENT CAPACITIES (BULK)

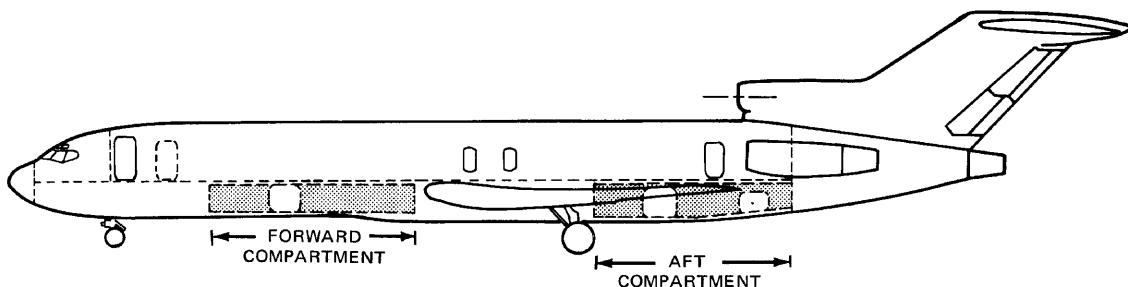
MODELS 727-100, -100C, -200



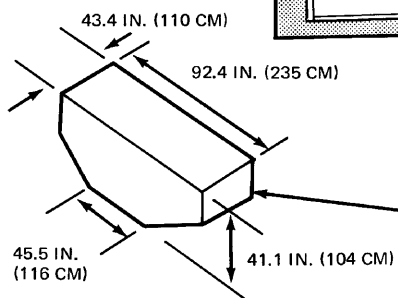
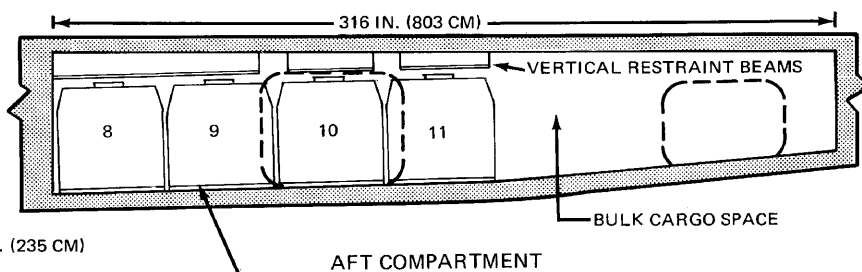
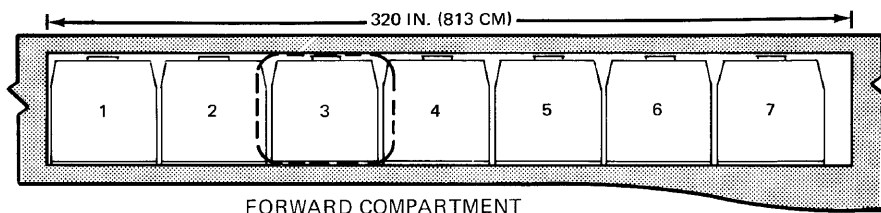
	STD AIRPLANE WITH TWO DOORS						WITH OPTIONAL THIRD DOOR							
	U.S. GAL.	L	U.S. GAL.	L	U.S. GAL.	L	U.S. GAL.	L	U.S. GAL.	L	U.S. GAL.	L	U.S. GAL.	L
OPTIONAL ADDITIONAL FUEL	0	0	860 (2)	3255	1670 (1&2)	6321	0	0	860 (2)	3255	1670 (1&2)	6321	2480	9387
BULK CARGO CAPACITIES	FT ³	M ³	FT ³	M ³	FT ³	M ³	FT ³	M ³	FT ³	M ³	FT ³	M ³	FT ³	M ³
FORWARD COMPT.	710	20.1	710	20.1	520	14.7	710	20.1	710	20.1	520	14.7	520	14.7
AFT COMPT.	815	23.1	610	17.3	610	17.3	745	21.1	540	15.3	540	15.3	290	8.2
TOTAL	1525	43.2	1320	37.4	1130	32.0	1455	41.2	1250	35.4	1060	30.0	810	22.9

*FWD AND AFT TANKS (1), (2), (3)

LOWER CARGO COMPARTMENT CAPACITIES (BULK—WITH ADDITIONAL FUEL OPTIONS)
MODEL ADVANCED 727-200

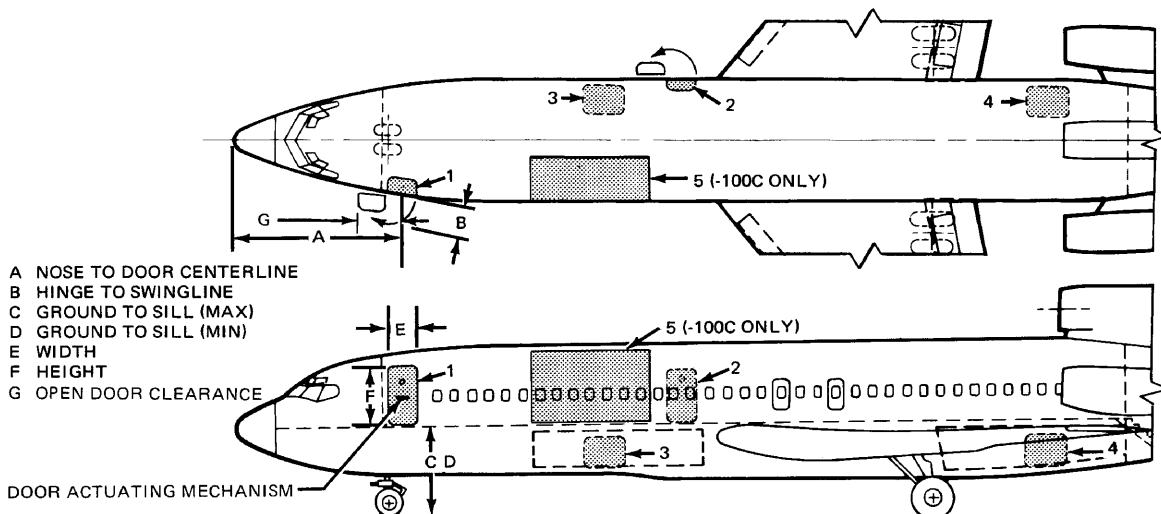


CARGO CAPACITIES					
		FORWARD COMPARTMENT	AFT COMPARTMENT		TOTAL
		CONTAINERIZED CARGO	CONTAINERIZED CARGO	BULK CARGO	
VOLUME	CU FT	546	312	260	1,118
	CU M	15.5	8.8	7.4	31.7
WEIGHT LIMIT	LB	9,000	10,000		19,000
	KG	4,086	4,540		8,626



CONTAINER WEIGHT	-	180 LB (81.7 KG)
LOADED WEIGHT	-	1,600 LB (726.4 KG)
VOLUME	-	78 CU FT (2.2 CU M)

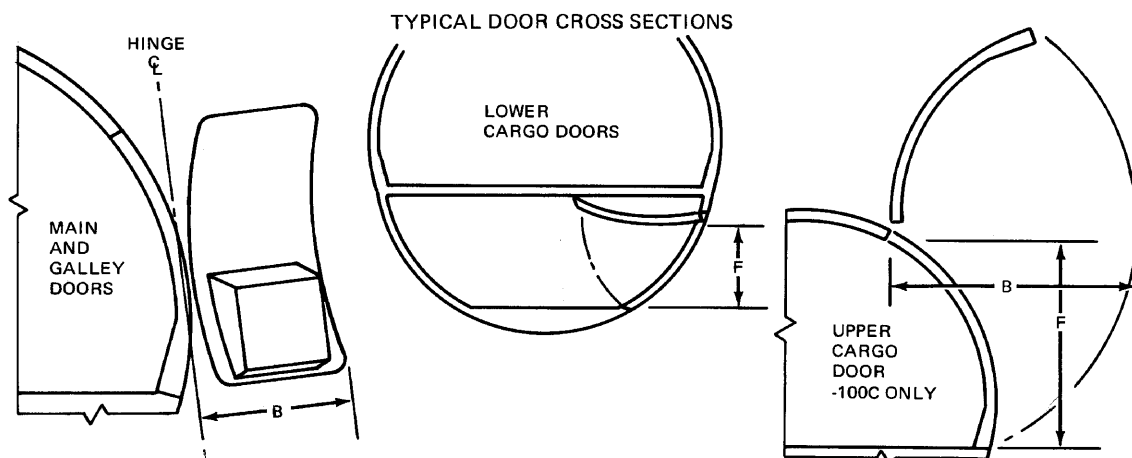
LOWER CARGO COMPARTMENT CAPACITIES (CONTAINER SYSTEM OPTION)
MODEL 727-200



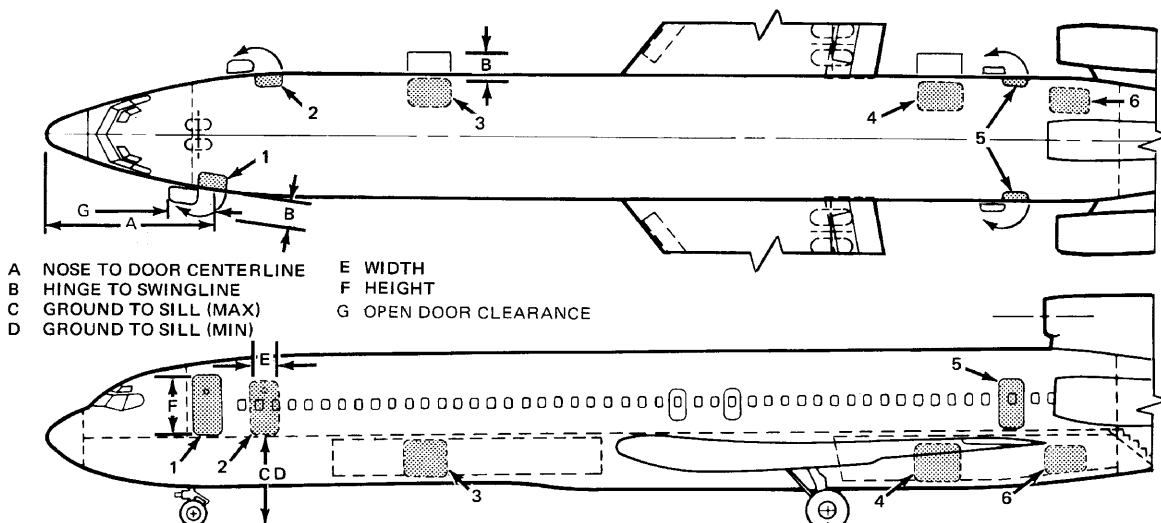
DOOR CLEARANCES

DOOR NO.	DOOR		DIMENSION						
			A	B	C	D	E	F	G
1	FORWARD ENTRY	FT-IN.	16-6	-42.3	9-8	8-2	-34	-72	-81
		M	5.03	1.07	2.94	2.48	0.86	1.83	2.05
2	GALLEY SERVICE	FT-IN.	43-11	-41.5	9-10	8-9	-33	-65	-57
		M	13.4	1.05	2.99	2.67	0.84	1.65	1.45
3	FORWARD CARGO	FT-IN.	36-4	*	5-4	4-3	-48	-35	-
		M	11.07	-	1.62	1.30	1.22	0.89	-
4	AFT CARGO	FT-IN.	79-6	*	5-5	4-3	-48	-35	-
		M	24.23	-	1.66	1.30	1.22	0.89	-
5	UPPER CARGO (-100C ONLY)	FT-IN.	35-0	9-4	9-6	8-6	-134	-86	-
		M	10.67	2.85	2.96	2.58	3.40	2.18	-

*SWINGS IN



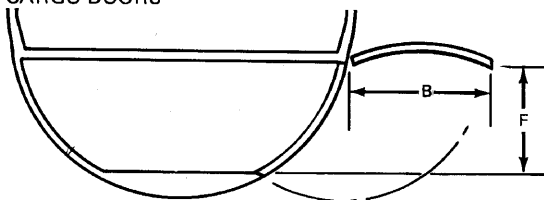
7 DOOR CLEARANCES
 MODELS 727-100, -100C



DOOR NO.	DOOR	DOOR CLEARANCES	DIMENSION						
			A	B	C	D	E	F	G
1	FORWARD ENTRY	FT-IN.	16-6	-42.3	10-1	8-0	-34	-72	-81
		M	5.03	1.07	3.07	2.45	0.86	1.83	2.05
2	FORWARD GALLEY SERVICE	FT-IN.	22-3	-41.5	10-1	8-2	-33	-65	-57
		M	6.78	1.05	3.08	2.48	0.84	1.65	1.45
3	FORWARD CARGO	FT-IN.	38-4	-65.6	5-6	4-2	-54	-42	-
		M	11.68	1.67	1.68	1.28	1.37	1.07	-
4	AFT CARGO	FT-IN.	89-3	-65.6	5-5	3-10	-54	-44	-
		M	27.2	1.67	1.65	1.17	1.37	1.12	-
5	AFT GALLEY SERVICE	FT-IN.	97-2	-41.5	10-10	9-0	-30	-60	-57
		M	29.6	1.05	3.31	2.74	0.76	1.52	1.45
6	OPTIONAL CARGO	FT-IN.	102-2	*	6-0	3-11	-48	-32	-
		M	31.2	---	1.84	1.20	1.22	0.81	-

*SWINGS IN

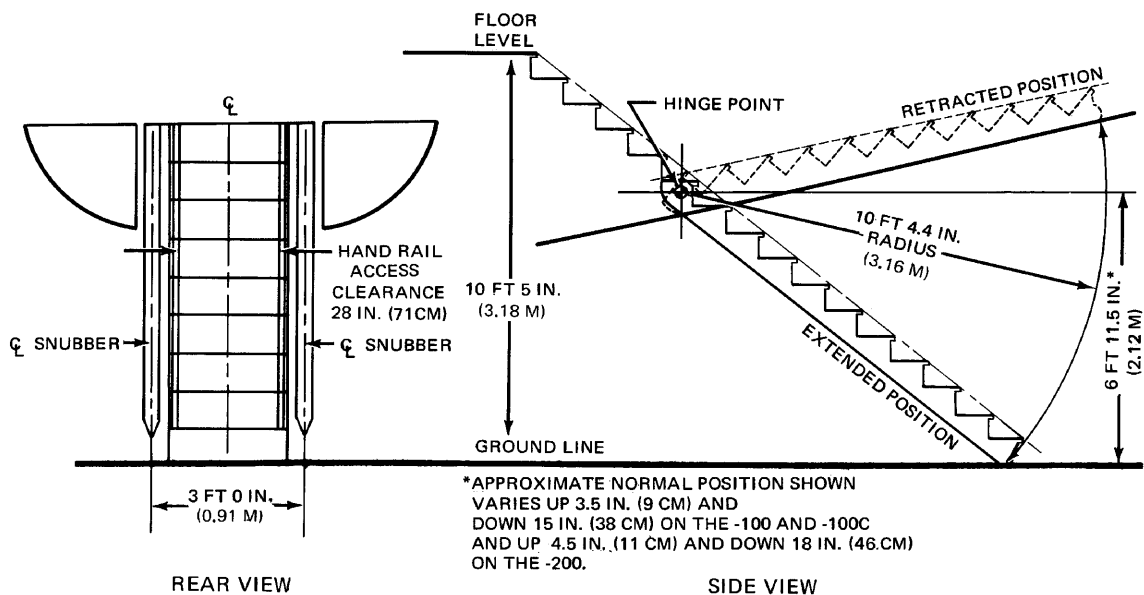
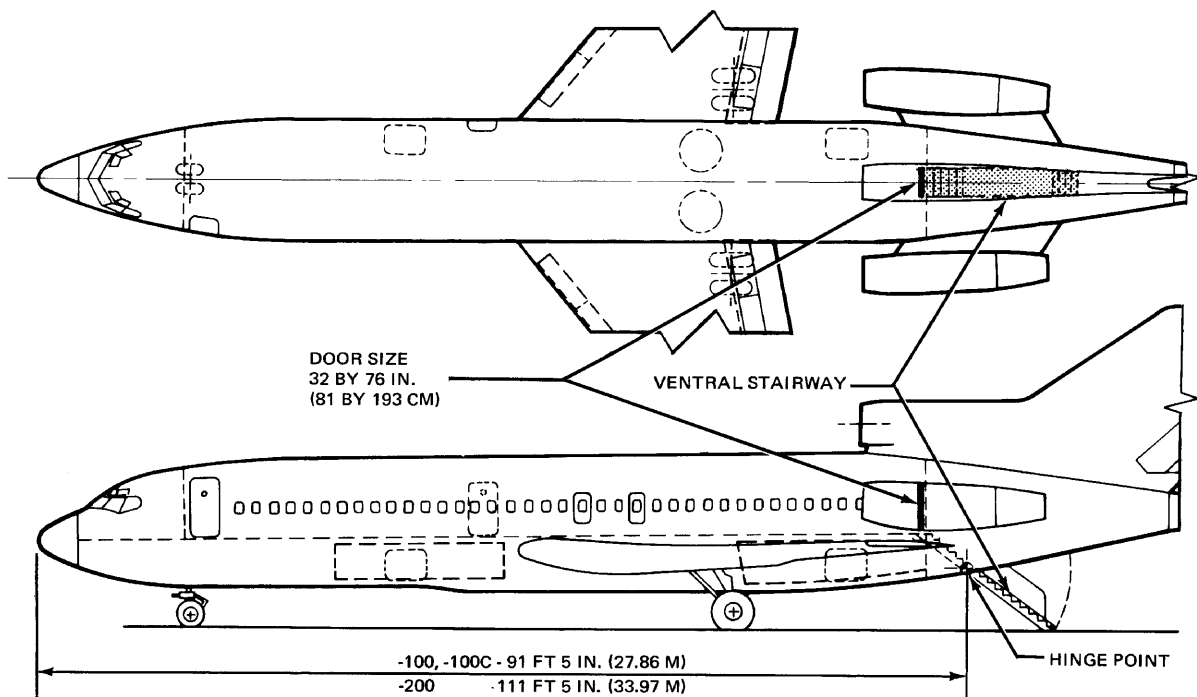
TYPICAL CROSS SECTION OF LOWER CARGO DOORS



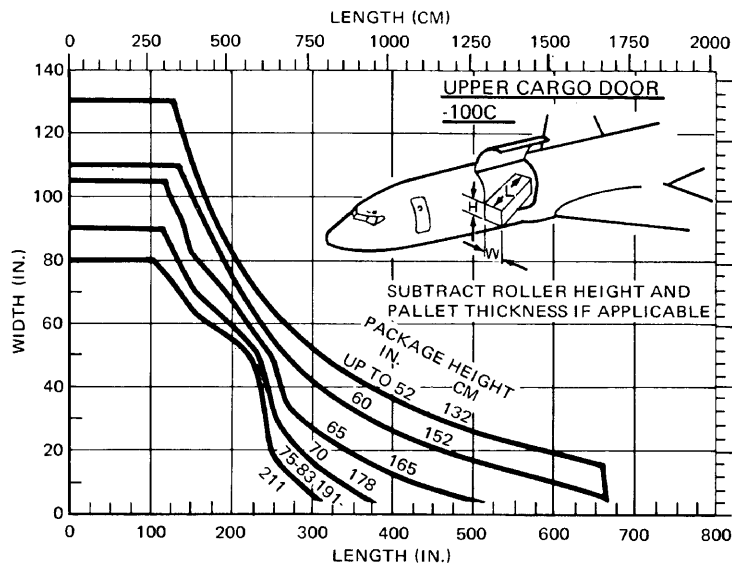
NOTES:

- SEE PREVIOUS PAGE FOR OTHER TYPICAL CROSS SECTIONS.
- SEE PAGE 27 FOR VENTRAL ENTRY DOOR DATA.

DOOR CLEARANCES
MODEL 727-200

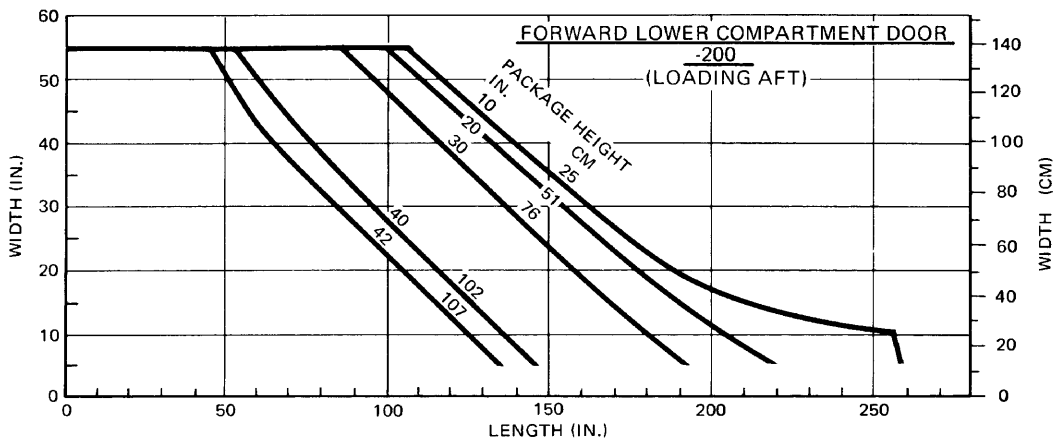
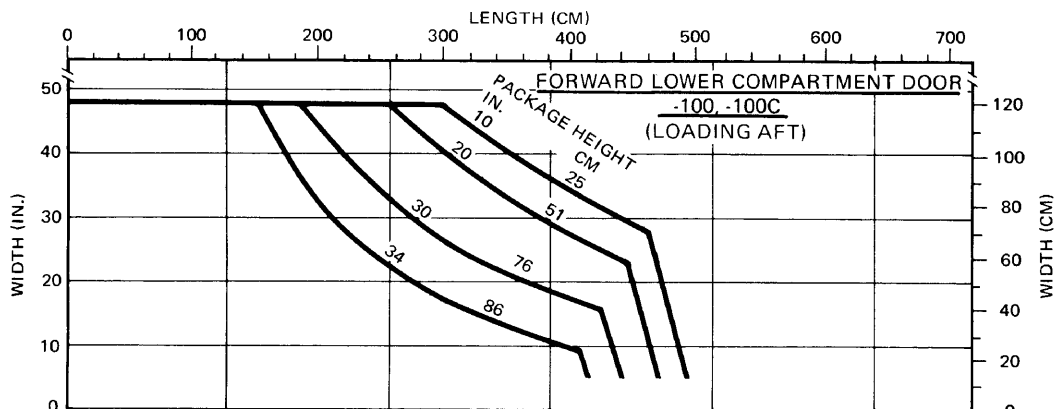


DOOR CLEARANCES—VENTRAL STAIRWAY
MODELS 727-100, -100C, -200



NOTES:

- THESE CHARTS ARE FOR RECTANGULAR PACKAGES. LARGER ITEMS MAY BE LOADED DEPENDING UPON SHAPE.
- APPROXIMATELY 2-INCH (5.08 CM) CLEARANCE HAS BEEN ALLOWED.



DOOR CLEARANCES—CARGO SIZES (MAXIMUM WITHOUT TILTING)
MODELS 727-100, -100C, -200