

SPECIFICATION SUMMARY



BOEING B747-400F

Pos.#1

Rev.: No. 2

Date: 08-APR-2020

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AIRCRAFT IDENTIFICATION

Aircraft Model	B747-409F
Manufacturer Serial Number	TBA
Manufacture Date	MAR-2001
Aircraft Registration	TBA
Engines Model	CF6-80C2B1F
APU Model	PW901A

WEIGHTS, OPERATIONAL	Metric	US Customary
Maximum Taxi Weight (MTW)	397`800 (Kg)	877`000 (Lbs)
Maximum Take Off Weight (MTOW)	396`893 (Kg)	875`000 (Lbs)
Maximum Landing Weight (MLW)	302`093(Kg)	666`000 (Lbs)
Maximum Zero Fuel Weight (MZFW)	288`031(Kg)	635`000 (Lbs)
Operating Empty Weight (OEW)	158`827 (Kg)	350`154 (Lbs)
Fuel Capacity (FC)	163`027 (Kg)	359`414(Lbs)

* ESTIMATED

DELIVERY SUMMARY

Delivery Date:	DEC. 2020
Airframe:	Fresh from C-check
Engines:	On Average 45% remaining life until next shop visit BSI to be performed
APU:	Serviceable, BSI to be performed
Landing Gears:	Time remaining until next C-Check
Components:	Serviceable & Airworthy
Painting:	As is
Interior Conf.:	Clean, Normal wear & tear
Airworthiness Directives:	In compliance on the delivery date
Documents & Records:	Up to date, in English

AIRFRAME STATUS

Total Airframe Hours	80`872
Total Cycles	14`600
Status Date	14-AUG-2019

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

MAINTENANCE STATUS

C - Check interval	24 MO / 10`000 FH
D - Check interval	8 YR Initial/6YR Repeat
Last C - Check	07-JAN-2020
Last D - Check	07-JAN-2020
Next C - Check	07-JAN-2022
Next D - Check	07-JAN-2026

LDG DETAILS	NLG	LH WLG	RH WLG	LH BLG	RH BLG
Part Number	TBA	TBA	TBA	TBA	TBA
Serial Number	TBA	TBA	TBA	TBA	TBA
Position	NLG	LH WLG	RH WLG	LH BLG	RH BLG
Hours Since New	TBA	TBA	TBA	TBA	TBA
Cycles Since New	TBA	TBA	TBA	TBA	TBA
Last Overhaul Date	TBA	TBA	TBA	TBA	TBA
Cycles Since Overhaul	TBA	TBA	TBA	TBA	TBA
Remaining Cycles	TBA	TBA	TBA	TBA	TBA
Overhaul Due Date	09-OCT-2024	09-OCT-2024	09-OCT-2024	09-OCT-2024	09-OCT-2024
Overhaul Interval	10 Years	10 Years	10 Years	10 Years	10 Years
Wheels & Part Number	TBA	TBA	TBA	TBA	TBA
Brakes & Part Number		TBA			
Status Date	10-DEC-2019	10-DEC-2019	10-DEC-2019	10-DEC-2019	10-DEC-2019

ENGINE / APU DETAILS	Engine 1	Engine 2	Engine 3	Engine 4	AP1
Manufacturer	GE	GE	GE	GE	P&W
Model	CF6-80C2B1F	CF6-80C2B1F	CF6-80C2B1F	CF6-80C2B1F	PW901A
Thrust Rate	59'000 Lbs	59'000 Lbs	59'000 Lbs	59'000 Lbs	

ENGINE / APU STATUS	Engine 1	Engine 2	Engine 3	Engine 4	APU
Serial Number	TBA	TBA	TBA	TBA	TBA
Total Time Since New	71'429	52'235	71'480	50'315	37'172
Total Cycles Since New	13'234	8'355	14'104	9'019	26'201
Last Shop Visit Date	TBA	TBA	TBA	TBA	15-AUG-2018
Scope of Shop Visit	TBA	TBA	TBA	TBA	Overhaul
Hours Since Last Shop Visit	3'882	2'529	2'214	4'105	2'308
Cycles Since Last Shop Visit	786	497	424	829	1'704
First LLP Limiter	4'913	3'613	5'315	3'174	TBA
Status Date	11-DEC-2019	11-DEC-2019	11-DEC-2019	11-DEC-2019	30-NOV-2019

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

ENGINE Pos.#1 – LLP

LIFE LIMITED PARTS

Engine Type: CF6-80C2B6F	TSN: 71`429 <b>CSN:</b> 13`234	TSLSV: 3`882 <b>CSLSV:</b> `786	Date: 11-DEC-2019
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NO.	PART NAME	PART NUMBER	TOTAL HOURS	TOTAL CYCLES	LIFE LIMIT CYCLES	REMAINING CYCLES
FAN ROTOR ASSEMBLY						
1)	FAN ROTOR DISK STAGE 1	1856M89P01	46`790	9`181	20`000	10`819
2)	FAN ROTOR STAGE 2-5 SPOOL	2051M80P01	46`790	9`181	20`000	10`819
3)	FAN FWD SHAFT	1855M57G01	46`790	9`181	20`000	10`819
FAN MID SHAFT ASSEMBLY						
4)	FAN MID SHAFT	1862M48P02	50`093	8`976	20`000	11`024
HPC ROTOR ASSEMBLY						
5)	HPC STAGE 1 DISK	1644M21P04	62`363	12`014	20`000	7`986
6)	HPC STAGE 2 DISK	9380M27P08	62`363	12`014	20`000	7`986
7)	HPC SPOOL STAGE 3-9	1856M15G02	64`263	12`321	20`000	7`679
8)	HPC STAGE 10-14 SPOOL SHAFT	1703M49G03	50`093	8`976	20`000	11`024
9)	CDP SEAL DISK	1347M31P01	62`363	12`014	20`000	7`986
HPT ROTOR ASSEMBLY						
10)	HPT STAGE 1 DISK	2047M32G07	50`993	10`087	15`000	4`913
11)	HPT STAGE 2 DISK	9362M43P09	54`680	8`748	15`000	6`252
12)	HPT IMPELLER SPACER	1539M12P02	52`544	9`565	15`000	5`435
13)	DIFFUSER VANE RING	9290M28P15	54`680	8`748	15`000	6`252
LPT ROTOR ASSEMBLY						
14)	LPT STAGE 1 DISK	1863M21P01	64`263	12`321	20`000	7`679
15)	LPT STAGE 2 DISK	1863M22P01	64`263	12`321	20`000	7`679
16)	LPT STAGE 3 DISK	1863M23P01	64`263	12`321	20`000	7`679
17)	LPT STAGE 4 DISK	1863M24P01	64`263	12`321	20`000	7`679
18)	LPT STAGE 5 DISK	1863M25P01	64`263	12`321	20`000	7`679
19)	LPT SHAFT	9382M59P10	64`263	12`321	20`000	7`679
						LOWEST LIMITER 4`913

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

ENGINE Pos.#2 – LLP

LIFE LIMITED PARTS

Engine Type: CF6-80C2B6F	TSN: 52`235 <b>CSN:</b> 8`355	TSLSV: 2`529 <b>CSLSV:</b> `497	Date: 11-DEC-2019
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NO.	PART NAME	PART NUMBER	TOTAL HOURS	TOTAL CYCLES	LIFE LIMIT CYCLES	REMAINING CYCLES
FAN ROTOR ASSEMBLY						
1)	FAN ROTOR DISK STAGE 1	1703M77P03	68`455	12`247	20`000	7`753
2)	FAN ROTOR STAGE 2-5 SPOOL	1856M71P06	68`455	12`247	20`000	7`753
3)	FAN FWD SHAFT	1855M57G01	68`455	12`247	20`000	7`753
FAN MID SHAFT ASSEMBLY						
4)	FAN MID SHAFT	1862M48P02	68`455	12`247	20`000	7`753
HPC ROTOR ASSEMBLY						
5)	HPC STAGE 1 DISK	1644M21P04	65`445	11`786	20`000	8`214
6)	HPC STAGE 2 DISK	9380M27P08	65`445	11`786	20`000	8`214
7)	HPC SPOOL STAGE 3-9	1856M15G02	65`445	11`786	20`000	8`214
8)	HPC STAGE 10-14 SPOOL SHAFT	1703M49G03	69`874	12`721	20`000	7`279
9)	CDP SEAL DISK	1347M31P01	65`445	11`786	20`000	8`214
HPT ROTOR ASSEMBLY						
10)	HPT STAGE 1 DISK	1531M84G12	43`750	8`710	15`000	6`290
11)	HPT STAGE 2 DISK	9362M43P04	62`393	11`353	15`000	3`647
12)	HPT IMPELLER SPACER	1539M12P02	62`248	11`387	15`000	3`613
13)	DIFFUSER VANE RING	9290M28P15	62`393	11`353	15`000	3`647
LPT ROTOR ASSEMBLY						
14)	LPT STAGE 1 DISK	1863M21P01	65`445	11`786	20`000	8`214
15)	LPT STAGE 2 DISK	1863M22P01	65`445	11`786	20`000	8`214
16)	LPT STAGE 3 DISK	1863M23P01	65`445	11`786	20`000	8`214
17)	LPT STAGE 4 DISK	1863M24P01	65`445	11`786	20`000	8`214
18)	LPT STAGE 5 DISK	1863M25P01	65`445	11`786	20`000	8`214
19)	LPT SHAFT	9382M59P10	65`445	11`786	20`000	8`214
						LOWEST LIMITER 3`613

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

Engine Type: CF6-80C2B6F	TSN: 71`480 <b>CSN:</b> 14`104	TSLSV: 2`214 <b>CSLSV:</b> `424	Date: 11-DEC-2019
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NO.	PART NAME	PART NUMBER	TOTAL HOURS	TOTAL CYCLES	LIFE LIMIT CYCLES	REMAINING CYCLES
FAN ROTOR ASSEMBLY						
1)	FAN ROTOR DISK STAGE 1	1856M89P01	51`921	8`282	20`000	11`718
2)	FAN ROTOR STAGE 2-5 SPOOL	2051M80P07	51`921	8`282	20`000	11`718
3)	FAN FWD SHAFT	1855M57G01	51`921	8`282	20`000	11`718
FAN MID SHAFT ASSEMBLY						
4)	FAN MID SHAFT	1862M41P04	89`250	14`685	20`000	5`315
HPC ROTOR ASSEMBLY						
5)	HPC STAGE 1 DISK	1644M21P04	65`341	11`924	20`000	8`076
6)	HPC STAGE 2 DISK	9380M27P08	65`341	11`924	20`000	8`076
7)	HPC SPOOL STAGE 3-9	1856M15G02	43`632	8`080	20`000	11`920
8)	HPC STAGE 10-14 SPOOL SHAFT	1703M49G04	51`710	9`757	20`000	10`243
9)	CDP SEAL DISK	1347M31P01	65`341	11`924	20`000	8`076
HPT ROTOR ASSEMBLY						
10)	HPT STAGE 1 DISK	1531M84G12	34`435	8`657	15`000	6`343
11)	HPT STAGE 2 DISK	9362M43P09	2`214	`424	15`000	14`576
12)	HPT IMPELLER SPACER	1539M12P02	49`871	7`963	15`000	7`037
13)	DIFFUSER VANE RING	2047M10P01	2`214	`424	15`000	14`576
LPT ROTOR ASSEMBLY						
14)	LPT STAGE 1 DISK	1863M21P01	51`921	8`282	20`000	11`718
15)	LPT STAGE 2 DISK	1863M22P01	51`921	8`282	20`000	11`718
16)	LPT STAGE 3 DISK	1863M23P01	51`921	8`282	20`000	11`718
17)	LPT STAGE 4 DISK	1863M24P01	51`921	8`282	20`000	11`718
18)	LPT STAGE 5 DISK	1863M25P01	51`921	8`282	20`000	11`718
19)	LPT SHAFT	9382M59P10	65`341	11`924	20`000	8`076
						LOWEST LIMITER 5`315

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

Engine Type: CF6-80C2B6F	TSN: 50`315 <b>CSN:</b> 9`019	TSLSV: 4`104 <b>CSLSV:</b> `829	Date: 11-DEC-2019
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NO.	PART NAME	PART NUMBER	TOTAL HOURS	TOTAL CYCLES	LIFE LIMIT CYCLES	REMAINING CYCLES
FAN ROTOR ASSEMBLY						
1)	FAN ROTOR DISK STAGE 1	1856M89P01	59`884	9`933	20`000	10`067
2)	FAN ROTOR STAGE 2-5 SPOOL	2051M80P01	59`884	9`933	20`000	10`067
3)	FAN FWD SHAFT	1855M57G01	59`884	9`933	20`000	10`067
FAN MID SHAFT ASSEMBLY						
4)	FAN MID SHAFT	1862M41P04	42`854	9`350	20`000	10`650
HPC ROTOR ASSEMBLY						
5)	HPC STAGE 1 DISK	1644M21P04	71`189	12`642	20`000	7`358
6)	HPC STAGE 2 DISK	9380M27P08	71`189	12`642	20`000	7`358
7)	HPC SPOOL STAGE 3-9	1856M15G02	44`515	7`388	20`000	12`612
8)	HPC STAGE 10-14 SPOOL SHAFT	1703M49G04	44`515	7`388	20`000	12`612
9)	CDP SEAL DISK	1347M31P01	72`271	12`754	20`000	7`246
HPT ROTOR ASSEMBLY						
10)	HPT STAGE 1 DISK	2116M75P01	18`285	9`941	15`000	5`059
11)	HPT STAGE 2 DISK	9362M43P09	4`105	`829	15`000	14`171
12)	HPT IMPELLER SPACER	1539M12P02	66`052	11`826	15`000	3`174
13)	DIFFUSER VANE RING	9290M28P15	71`190	10`020	15`000	4`980
LPT ROTOR ASSEMBLY						
14)	LPT STAGE 1 DISK	1863M21P01	45`775	8`408	20`000	11`592
15)	LPT STAGE 2 DISK	1863M22P01	45`775	8`408	20`000	11`592
16)	LPT STAGE 3 DISK	1863M23P01	45`775	8`408	20`000	11`592
17)	LPT STAGE 4 DISK	1863M24P01	45`775	8`408	20`000	11`592
18)	LPT STAGE 5 DISK	1863M25P01	45`775	8`408	20`000	11`592
19)	LPT SHAFT	9382M59P10	45`775	8`408	20`000	11`592
						LOWEST LIMITER 3`174

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

MAJOR AVIONICS EQUIPMENT			
DESCRIPTION	MANUFACTURER	PART NUMBER	QTY
ATA 22 - Automatic Flight Controls			
FCU - FLIGHT CONTROL UNIT	ROCKWELL	622-8780-103	1
FCC - FLIGHT CONTROL COMPUTER	Rockwell Collins	822-1261-101	3
FMC	Honeywell	4052508-952	2
ATA 23 - Communication			
VHF Transceiver - VERY HIGH FREQUENCY TRANSCEIVER	Honeywell	064-50000-0110	3
HF Transceiver - HIGH FREQUENCY TRANSCEIVER	Rockwell Collins	822-0990-002	2
SELCAL - SELECTIVE CALLING SYSTEM DECODER	AVTECH	1200008-000	1
ACARS - AIRCRAFT COMMUNICATION ADDRESSING & REPORTING SYSTEM	Rockwell Collins	822-1239-101	1
SSCVR - SOLID STATE COCKPIT VOICE RECORDER	L3 com	S200-0012-00	1
ATA 31 - Indication and Recording System			
FDIU/FDIMU(DFDAC)	Boeing	285U0071-207	1
SSDFDR - SOLID STATE DIGITAL FLIGHT DATA RECORDER	Honeywell	980-4700-042	1
ACMS-DMU	Honeywell	967-0611-001	1
ADC	Honeywell	4040800-911	3
ATA 34 - Navigation			
IRU - Inertial Reference Unit	Honeywell	HG1050AD15 HG1050AE15	3
SATCOM	Honeywell	7516100-20060	1
LRRA	Thomson (F0057)	9599-607-14940	3
MMR - MULTI-MODE RECEIVER	Collins Aerospace	822-1821-002	3
WEATHER RADAR TRANSCEIVER	Rockwell Collins	822-1710-001	2
TCAS - TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM COMPUTER	ACSS	7517900-10020 7517900-10024	1
EGPWS - ENHANCED GROUND PROXIMITY WARNING SYSTEM	Honeywell	965-0976-003-222-222	1
DME - DISTANCE MEASURING EQUIPMENT INTEROGATOR	Rockwell Collins	822-0329-001	2
ATC - AIR TRAFFIC CONTROL TRANSPONDER	Thales	9008000-10000	2
ADF - AUTOMATIC DIRECTION-FINDING RECEIVER	Rockwell Collins	822-0299-001	2
VOR - VERY HIGH FREQUENCY OMNI-DIRECTIONAL RANGE RECEIVER	Rockwell Collins	822-0297-001	2

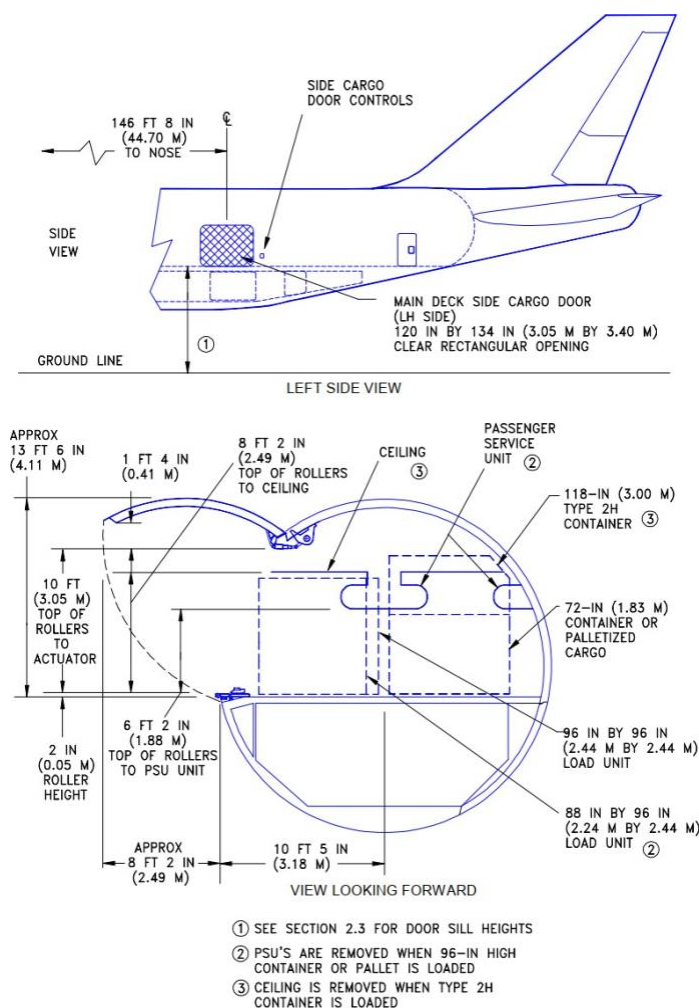
INTERIOR CONFIGURATION

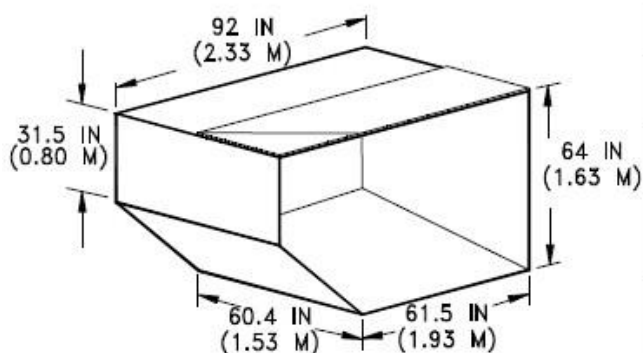
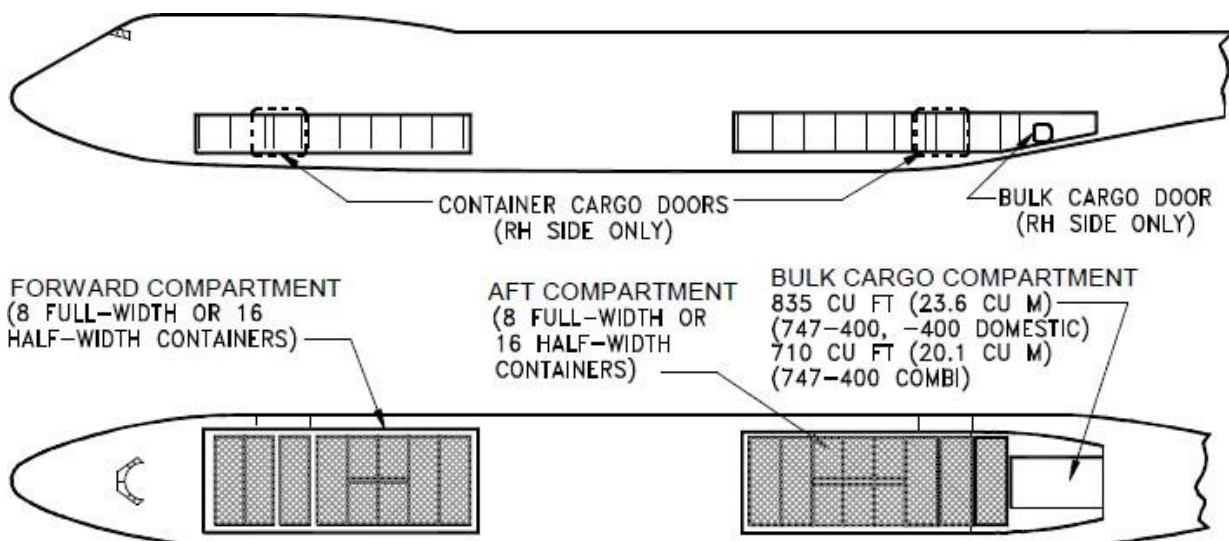
Galleys	1	Catering Standard	ATLAS
Lavatories	1	Ovens, Water Boilers/Coffey Makers	TBA
Attendant Seats	TBA	Cockpit Configuration	Standard (2+2)
In Flight Entertainment	TBA	Flight Crew Rest	TBA

<u>Seats</u>	<u>Quantity</u>	<u>Manufacturer</u>	<u>Model</u>
Business Class	4	TBA	TBA

CARGO CONFIGURATION

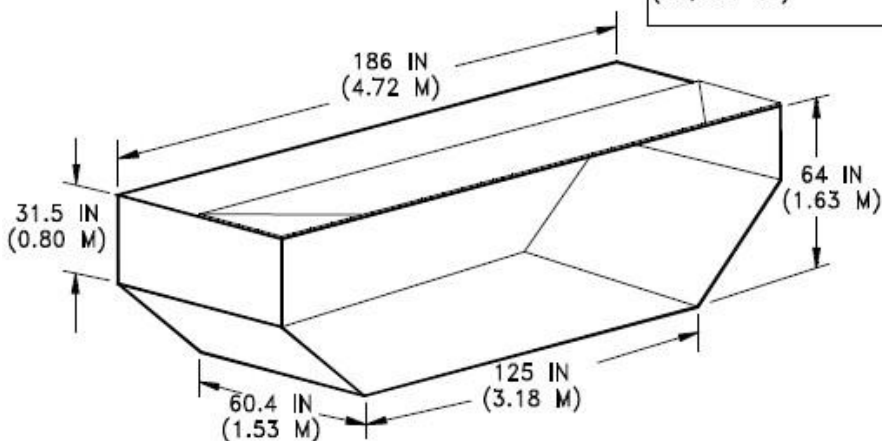
Cargo Configuration	CLS	Designee (Fire Detection/Protection) class	D
Cargo Volume	692 m ³	Containers	See below
Load Limitation	TBA	Main Deck Cargo Door(s)	134" x 120"
		Lower Deck Cargo Door(s)	FW 104" x 68" AFT 104" x 68" Bulk 44" x 47"





HALF-WIDTH CONTAINER (LD1)

CONTAINER DATA		
	HALF-WIDTH	FULL-WIDTH
INTERNAL VOLUME PER CONTAINER	173 CU FT 4.9 CU M	350 CU FT 9.9 CU M
TARE WEIGHT	270 LB 123 KG	470 LB 213 KG
MAXIMUM CARGO WEIGHT PER CONTAINER	3,230 LB 1,467 KG	6,530 LB 2,965 KG
MAXIMUM GROSS WEIGHT PER CONTAINER	3,500 LB 1,590 KG	7,000 LB 3,180 KG
TOTAL VOLUME OF 16 FULL-WIDTH CONTAINERS IS 5,600 CU FT (158.6 CU M)		
GROSS WEIGHT FOR 16 FULL-WIDTH OR 32 HALF-WIDTH CONTAINERS IS 112,000 LB (50,802 KG)		



FULL-WIDTH CONTAINER (LD2)

NOTES:

1. CONTAINER WEIGHT AND DATA ARE TYPICAL. CONSULT USING AIRLINE FOR SPECIFIC DATA.
2. OPTIONS ARE OFFERED FOR CARRIAGE OF CERTAIN STANDARD MILITARY AND COMMERCIAL PALLETS IN CONTAINER COMPARTMENTS.

PERFORMANCE

FOR INFORMATION PURPOSES ONLY

NOTES:

- * STANDARD DAY
- * 0.85 MACH STEP CRUISE
- * FAR INTERNATIONAL RESERVES
- * 10% TRIP AIR TIME
- * 200-NMI ALTERNATIVE
- * 1/2 HOUR HOLD AT 1,500 FT
- * NORMAL POWER EXTRACTION AND AIR CONDITIONING BLEED
- * CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND OEW PRIOR TO FACILITY DESIGN

