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CIVIL RESERVE AIR FLEET LOAD PLANNING – AIRBUS A340 SERIES

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This pamphlet series is intended as a load planning guide and provides the basic information, data, and technical specifications needed in order for planners (both long range and individual movement) to load plan aircraft in the Civil Reserve Air Fleet (CRAF). Equipment and methods listed are compatible with all CRAF aircraft and cargo areas discussed. **It must be noted that, unlike military cargo aircraft, civilian airframes are not standardized, and can vary widely, even within each carrier's fleet. Final approval, therefore, ultimately rests with the individual contractor providing airlift services to the DOD.** This pamphlet series enables application of DTR 4500.9-R, Defense Transportation Regulation – Part III Mobility, Appendix V, Aircraft Load Planning and Documentation; as well as AMCI 10-402, Civil Reserve Air Fleet (CRAF). The guidance contained herein is applicable to all USAF, AFRC, ANG and DOD agencies whenever they are charged with using the CRAF assets contained herein, in accordance with DOD, inter-service, and/or MAJCOM agreements.

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Chapter 1

GENERAL INFORMATION

1.1. Purpose. This pamphlet series is non-directive in nature. It provides the basic information, data, and technical specifications needed in order for planners to more efficiently and effectively load plan aircraft in the CRAF.

1.2. Scope. CRAF aircraft specifications listed herein are current as of the date of this printing. Equipment and methods listed are compatible with all CRAF aircraft and cargo areas discussed. **It must be noted that, unlike military cargo aircraft, civilian airframes are not standardized, and can vary widely, even within each carrier's fleet. Final approval, therefore, ultimately rests with the individual contractor providing airlift services to the DOD.**

1.2.1. Volume 2, Airbus. AMCPAM 24-2 Volume 2 deals specifically with aircraft manufactured by Airbus S.A.S. Corporation. Airbus was first created in 1970 as Airbus Industrie GIE, a multi-national consortium, and is currently owned by European Aeronautic Defence and Space Company (EADS). As of the date of this publication, Airbus S.A.S. has provided more than 5,900 aircraft to carriers worldwide, with over 5,600 still in operation.

1.3. Arrangement. This pamphlet series is designed for easy reference and access to the most commonly needed information for planning purposes. Essentially, Volume 1 will contain all information common to the entire CRAF program and most, if not all, carriers. Volumes 2 through 5 will contain information specific to a particular manufacturer's airframes, with each sub-volume addendum addressing a different series or type. Each can be referenced separately from another; however, each addendum needs to be used in conjunction with Volume 1.

1.3.1. Volume 2, Airbus Addenda. Volume 2 is not separated from each subsequent addendum, but is published as a "cover" document along with and as an introduction for each addendum. The same information for Volume 2 essentially gets republished--unchanged with each Airbus model's addendum.

1.3.2. Volume 2, Airbus Quick Reference Tables. All chapter descriptions for various models are designed to be used in conjunction with Chapter 2 Quick Reference Tables. The information in the Quick Reference Tables will generally not be restated in the expanded chapters as they are meant primarily for pictorial figures.

1.4. Supplements. Changes or supplements to this pamphlet by agencies, other than AMC, are prohibited. This does not preclude its use as a reference document for preparation of intra-agency instructional directives.

1.5. Acronyms. An explanation of the acronyms used in this pamphlet is in AMCPAM 24-2, Volume 1, Attachment 1.

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1.7. Description. Addendum E. Airbus A340 Series.
The aircraft in the A340 Series are wide-body, long-range aircraft, with a four engine design. The later models (A340-500 and -600) are actually considered to be ultra-long range. Its sister series, the A330, seems to be more numerous than the A340 series, apparently due mainly to the reduced fuel economy of four versus two engines. However, Airbus tailored both series aircraft to meet the needs of economy, fuel efficiency and cabin comfort (considered to be crucial to long-range operations). Airbus maintains that the A340 offers “the quietest cabin in the sky”.

The A340 Series aircraft was launched concurrently with the A330 Series and shares many characteristics in fuselage, wings, and tail design. The two series continued along the Airbus concept of “commonality” which it started in earlier series. The common fly-by-wire architecture and cockpit systems, not only in different aircraft in the A340 Series, but in the A320 and A330 Series as well, expanded upon this. The A340 and A330 series introduced cross-crew qualification and mixed-fleet flying, in which airlines are able to switch their Airbus aircraft and their pilot crews at short notice to better match capacity to demand.

The A340-200 and the A340-300 entered into service almost at the same time. The A340-300 had its first flight in October of 1991 and the A340-200 followed in April of 1992. Both aircraft were type-certified at the same time in December, 1992. Very few A340-200’s were manufactured, and it has the shortest-fuselage of the series. The A340-200 and -300 have a combined delivery of 246, with 242 currently in operation.

The A340-600 became the third version of the series with its first flight in April of 2001 and type-certification in May of 2002. The A340-600 is a "super-stretch" version of the A340’s, having the longest fuselage of the series. Currently, 94 A340-600’s are in operation.

The A340-500 had its first flight in February of 2002, and was type-certified in December, 2002. Although only 30 aircraft are currently in operation, the A340-500 boasts as being one of the world’s longest-range commercial airliners.

AMCPAM 24-2 Volume 2, Addendum E will focus primarily on the:
A340-200 **(**Note: Quick reference tables are presented for the A340-200, however, there is NO separate chapter for it, due to its limited numbers.)
A340-300
A340-500
A340-600

Chapter 2

QUICK REFERENCE TABLES

2.1. Ranges. Most numbers are shown as a range, due to representing all-passenger to all-freight versions OR due to different modifications within a series/type. Also, within a series, several different engines/weight classes may exist.

2.2. Pallets. Unless otherwise noted, pallet information is based on the civilian pallet IATA code PAG- / P1P- type LD7 which measures 88" × 125"**.**

2.3. Table Legends.
2.3.1. Compartments. Unless otherwise noted, compartments are: M=Main/Upper; F=Forward/Lower Lobe; A=Aft/Lower Lobe; B=Bulk/Lower Lobe.

2.3.2. "X". An "X" represents the information does NOT apply for that series/type (ex: an all-passenger version would have an "X" by Main Compartment Door)

2.3.3. Question Mark "?". A "?" represents that the information should apply, but no information exists in the manufacturer's technical manuals.

2.3.4. Exclamation Point "!". An "!" represents information that should apply, but has been derived from a reliable, but non-manufacturer source.

2.4. After-Market Conversions. As a reminder, individual airlines may have converted an airframe apart from the manufacturer's original specifications. These tables and the charts in the following chapters do not account for this.

2.5. Tables. The following tables (Tables 2.1 through 2.6) will vary with each AMCPAM 24-2, Volume 2 Addendum.

2.6. Tables. Addendum E. Airbus A340 Series.

Table 2.1. Cargo Planning.

Aircraft Type	Pallets (88"×125") Max Ht	Range w/ Max ACL (NM)	Maximum ACL (ST) per Leg Length (NM)				Ferry Range w/ No Cargo (NM)
			2000	2500	3000	3500	
A340-200	M=X, F= 5, A= 4, B= X	5,000–6,100	48.23–52.64	48.23–52.64	48.23–52.64	48.23–52.64	8,350–8,600
A340-300	M=X, F= 6, A= 4, B= X	4,800–5,400	53.75–61.46	53.75–61.46	53.75–61.46	53.75–61.46	8,250–8,400
A340-500	M=X, F= 6, A= 4, B= X	7,100	60.22–67.94	60.22–67.94	60.22–67.94	60.22–67.94	9,800
A340-600	M=X, F= 8, A= 6, B= X	5,800	72.35–82.27	72.35–82.27	72.35–82.27	72.35–82.27	8,800

Table 2.2. Passenger Planning.

Aircraft Type	Standard Seating	Max Seats (One Class)	Range w/ Max Troops (NM)	Maximum Troops per Leg Length (NM)			
				2,000	2,500	3,000	3,500
A340-200	303	323	6,800–7,600	303	303	303	303
A340-300	335	416	6,600–7,100	335	335	335	335
A340-500	313	372	8,600	313	313	313	313
A340-600	384	447	7,500	384	384	384	384

Table 2.3. Door Clearances/Sizes.

Aircraft Type	Door Height from ground (in inches)					Door Size (W×H) (in inches)			
	Front/ Side Pax	Main/ Upper Deck	Lower Lobe FWD	Lower Lobe AFT	Bulk Lobe	Main Deck	Lower Lobe FWD	Lower Lobe AFT	Bulk Lobe
A340-200	173.2 to 183.4	X	100.0 to 109.8	125.2 to 135.7	130.3 to 141.2	X	106 × 66	109 × 66	37 × 42
A340-300	175.1 to 183.0	X	100.0 to 109.4	125.2 to 135.7	130.3 to 141.6	X	106 × 66	109 × 66	37 × 42
A340-500	177.8 to 187.3	X	104.2 to 113.3	129.5 to 139.1	133.1 to 143.0	X	106 × 66	109 × 66	37 × 42
A340-600	178.6 to 188.0	X	104.3 to 113.5	127.9 to 137.9	131.0 to 141.5	X	106 × 66	109 × 66	37 × 42

Table 2.4. Compartment Dimensions.

Aircraft Type	Compartment Dimensions (L×W×H) (in inches)				Compartment Weight limit (lbs)			
	Main/ Upper Deck	Lower Lobe FWD	Lower Lobe AFT	Bulk Lobe	Main/ Upper Deck	Lower Lobe FWD	Lower Lobe AFT	Bulk Lobe
A340-200	X	507 × (125.2@fl) 163.4 × 67.3	401.2 × (125.2@fl) 163.4 × 65.8	159 × 150 × 71.6	X	40,800	33,600	7,645
A340-300	X	591.6 × (125.2@fl) 163.4 × 67.3	485.2 × (125.2@fl) 163.4 × 65.8	159 × 150 × 71.6	X	50,400	40,800	7,645
A340-500	X	590.4 × (125@fl) 163.4 × 67.3	408 × (125@fl) 163.4 × 67.3	159 × 150 × 71.6	X	54,000	36,000	7,645
A340-600	X	799.2 × (125@fl) 163.4 × 67.3	601.2 × (125@fl) 163.4 × 67.3	159 × 150 × 71.6	X	67,200	50,400	7,645

Table 2.5. Weight Information.

Aircraft Type	Maximum Design Weight (lbs)						
	Ramp/ Taxi (MTW)	**T/O (MTW)**	**Land (MLW)**	**Zero Fuel (MZFW)**	**Oper Empty (OEW)**	**Max Payload**	**Max Cargo Vol. (FT^3)**
A340-200	560,855–608,254	558,871–606,270	399,036–407,854	372,580–381,399	276,111	96,469–105,288	6,558
A340-300	560,855–611,561	558,871–609,577	410,059–423,287	383,603–399,036	276,111	107,492–122,925	7,607
A340-500	813,946–840,401	811,301–837,755	529,109–542,336	496,040–511,890	375,601	120,438–135,870	7,194
A340-600	807,332–840,401	804,686–837,755	564,383–584,224	533,518–553,359	388,816	144,702–164,544	9,677

Table 2.6. Airfield Suitability Information.

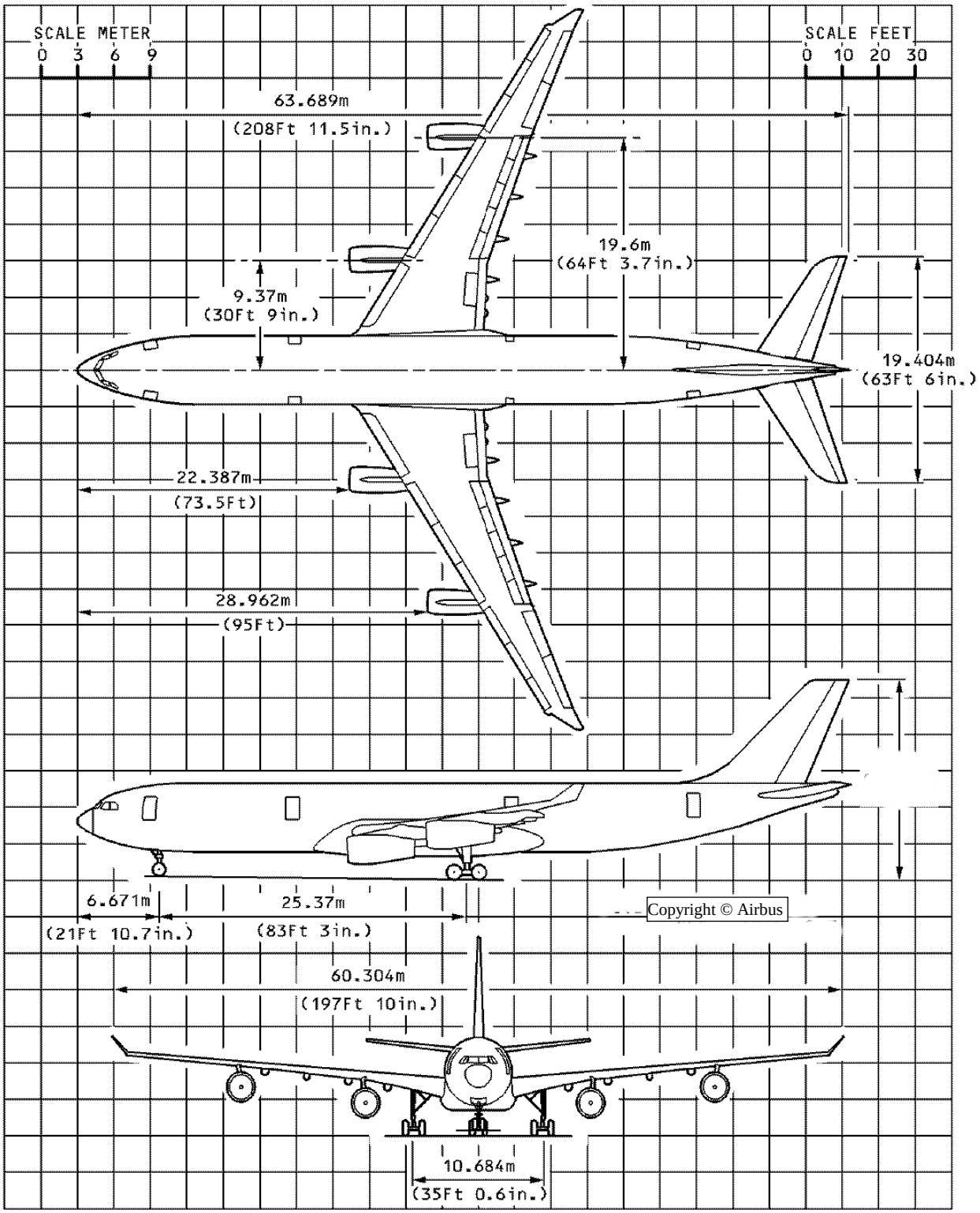
Aircraft Type	Max Usable Fuel (US Gal)	T/O Min RWY at MTW (FT)	LND Min RWY at MLW (FT)	Parking Ramp Footprint (L×W)	Electrical (Ground Op's & Maintenance)	Air (Starting) (SL, Std Day)	Gear Type New FAA / USAF
A340-200	37,153	8,750–11,625	5,700–6,250	194' 11.4" × 197' 10"	6 pin IS0 R461 115/200 ± 3 V 3-ph, 400 Hz 90 KVA.	3" ISO TC20 Min - 33 PSIG Max - 60 PSIG, 220° C, 202 PPM	2D/D1 / T-TA(H)
A340-300	37,153	8,750–12,500	5,750–6,600	208' 11.5" × 197' 10"	6 pin IS0 R461 115/200 ± 3 V 3-ph, 400 Hz 90 KVA.	3" ISO TC20 Min - 33 PSIG Max - 60 PSIG, 220° C, 202 PPM	2D/D1 / T-TA(H)
A340-500	56,550 – 58,965	10,700 – 11,500	6,750–6,800	228.86' × 208.16'	IS0 R461 115/200 ± 3 V 3-ph, 400 Hz 90 KVA.	Min - 33 PSIG Max - 60 PSIG, 220° C	2D/D1 / T-TA(H)
A340-600	51,516 – 55,195	10,700 – 11,700	7,000–7,225	247.25' × 208.16'	IS0 R461 115/200 ± 3 V 3-ph, 400 Hz 90 KVA.	Min - 33 PSIG Max - 60 PSIG, 220° C	2D/D1 / T-TA(H)

Chapter 3
A340-300

3.1. DIMENSIONS.

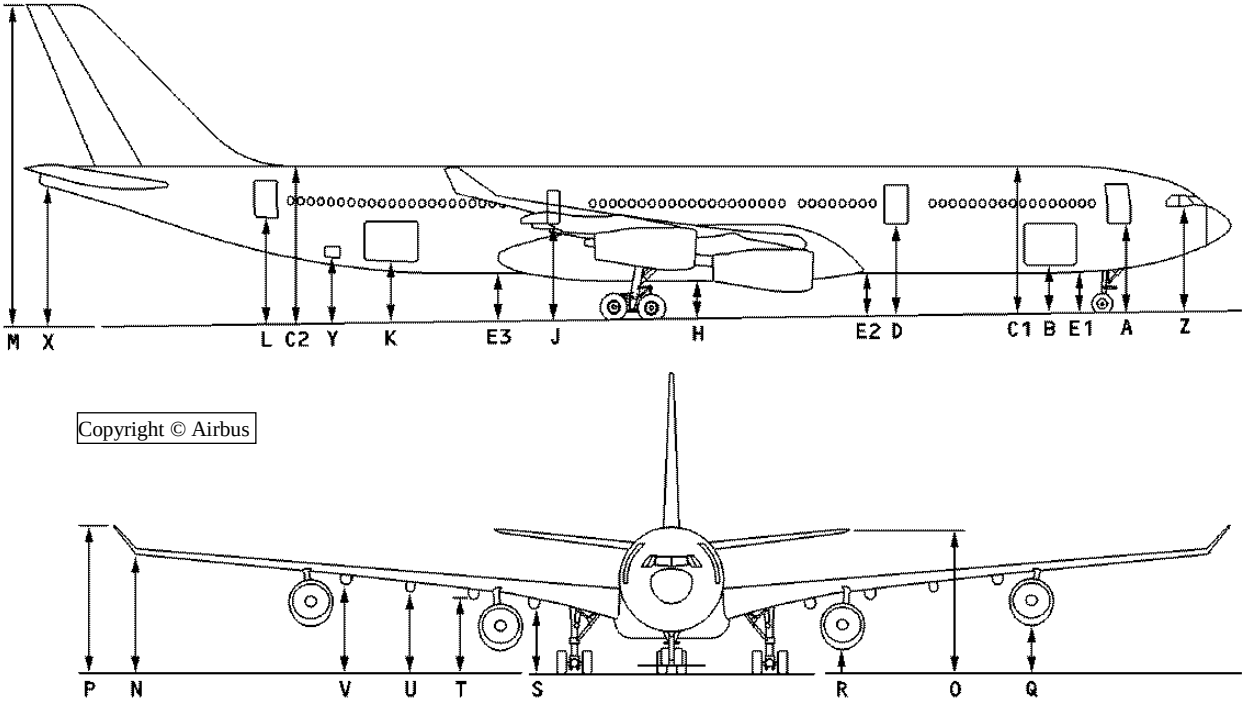
3.1.1. General Dimensions.

Figure 3.1. General Dimensions A340-300.



3.1.2. Ground Clearance.

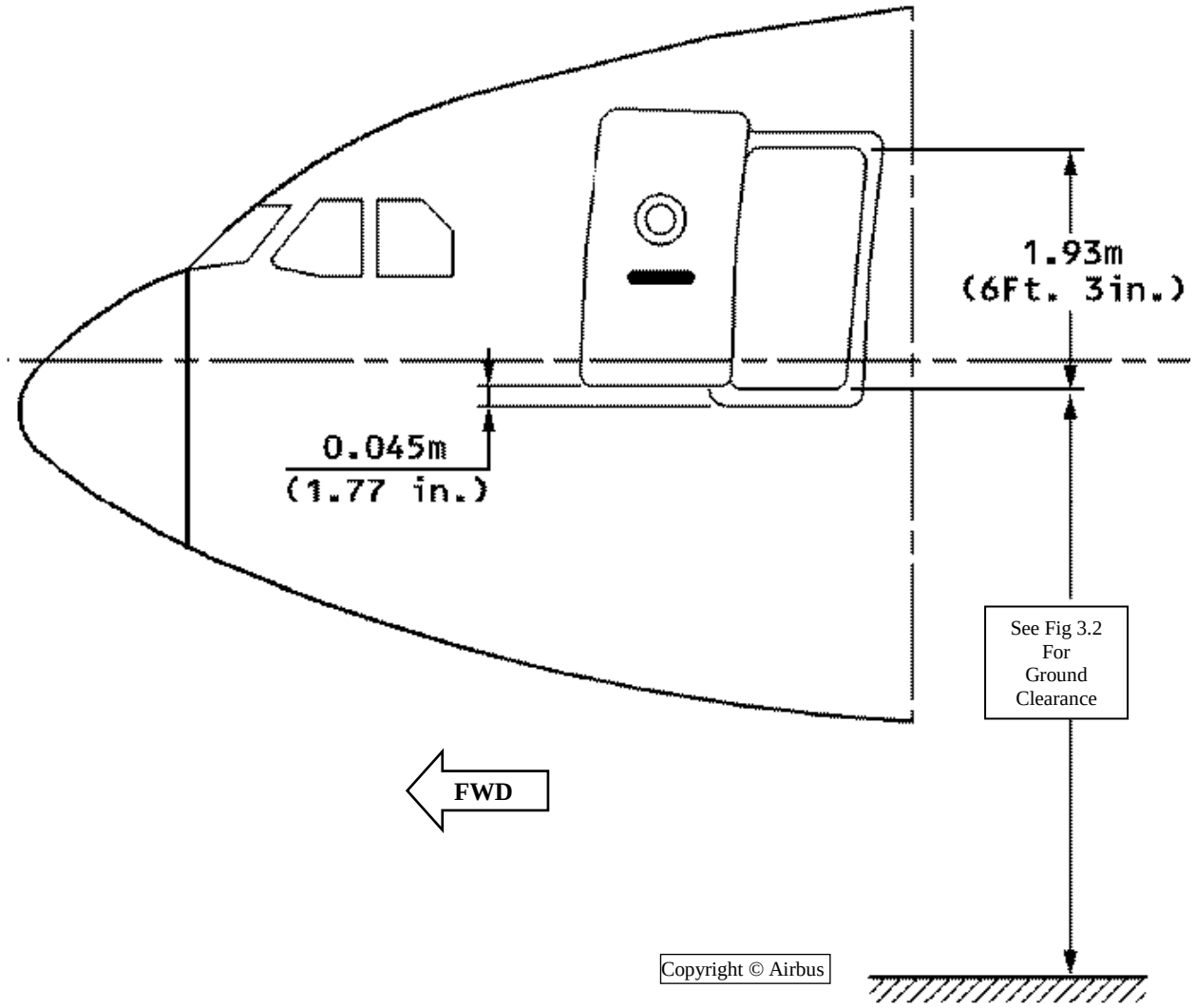
Figure 3.2. Ground Clearance A340-300.



Vertical Clearances					
	MRW of	OEW		MRW	
DOOR	599,431 lb	CG 31.9%		CG 20.7%	CG 38.2%
Pax/Crew	**A**	15.25'		14.59'	15.09'
FWD	**B**	9.12'		8.46'	8.88'
	C1	25.4'		24.73'	25.12'
	C2	29.09'		27.23'	26.83'
	D	16.1'		15.5'	15.71'
	E1	6.7'		6.03'	6.49'
	E2	7.41'		6.75'	6.98'
	E3	8.62'		8.03'	7.83'
	H	6.59'		5.97'	6.0'
	J	17.45'		16.86'	16.73'
AFT	**K**	11.31'		10.73'	10.43'
	L	18.56'		18.01'	17.58'
	M	55.89'		55.36'	54.68'
	N	20.76'		19.6'	19.48'
	O	26.86'		26.37'	25.68'
	P	25.88'		24.76'	24.54'
	Q	8.53'		7.7'	7.7'
	R	4.72'		4.1'	4.2'
	S	12.63'		12.01'	11.94'
	T	14.1'		13.51'	13.45'
	U	14.92'		14.33'	14.2'
	V	15.84'		15.28'	15.12'
	X	24.07'		23.58'	22.89'
BULK	**Y**	11.8'		11.15'	10.89'
	Z	17.84'		17.15'	17.74'

3.2. COMPARTMENT CONFIGURATIONS.

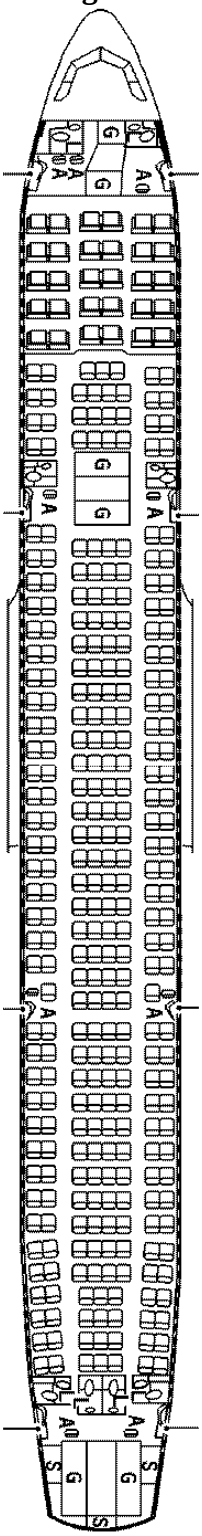
3.2.1. MAIN/PASSENGER COMPARTMENT.
3.2.1.1. Pax/Crew Door.
Figure 3.3. Pax/Crew Door A340-300.



3.2.1.2. Main Door.
N/A this model

3.2.1.3. Compartment Dimensions.

Figure 3.4. Typical 2-Class Passenger Configuration A340-300.



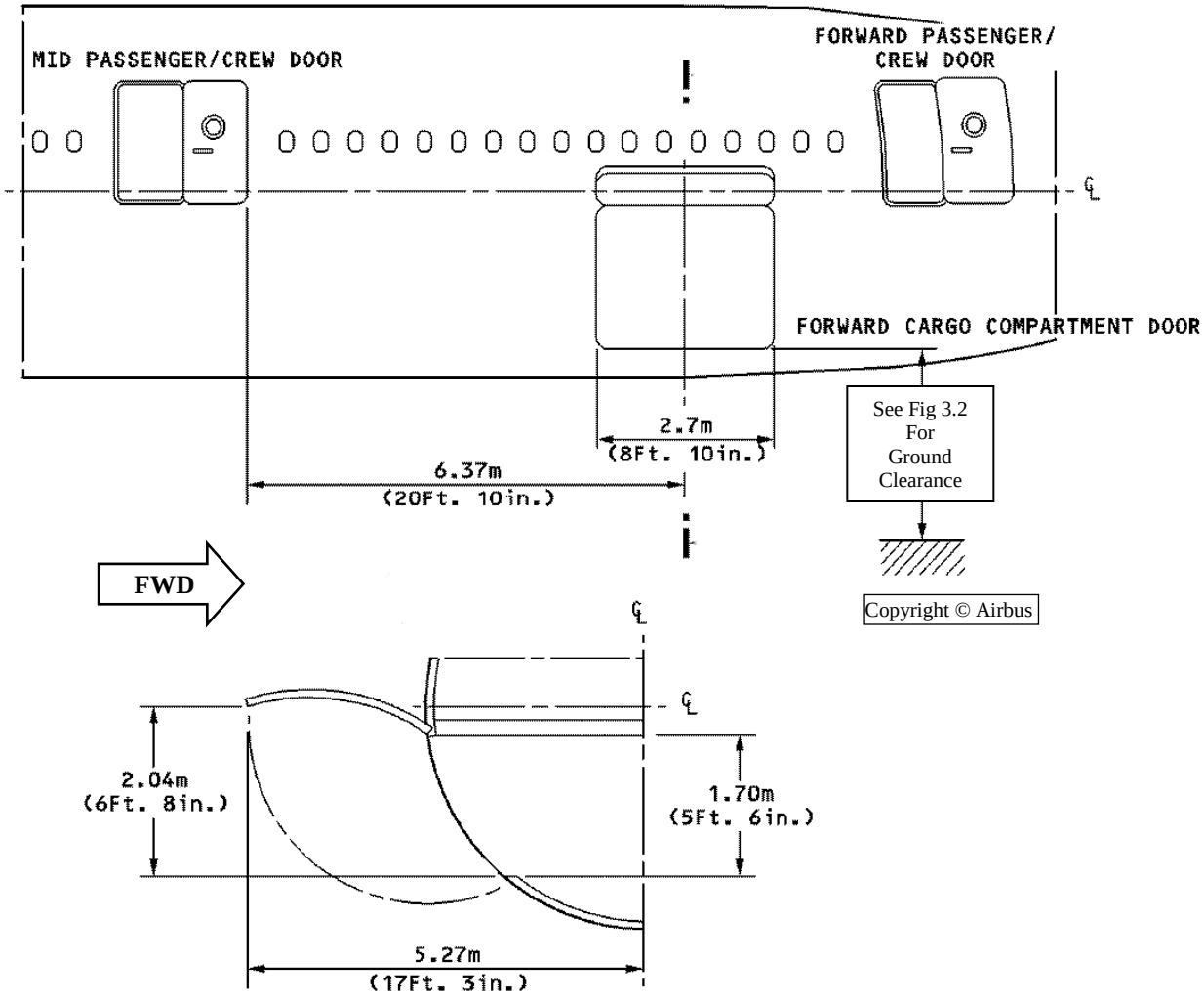
335 Seats
2 Class
30 First
305 Tourist

A = Attendant Seat (10)
G = Galley (6)
L = Lavatory (8)
S = Storage
| = Exit

3.2.1.4. Pallets.

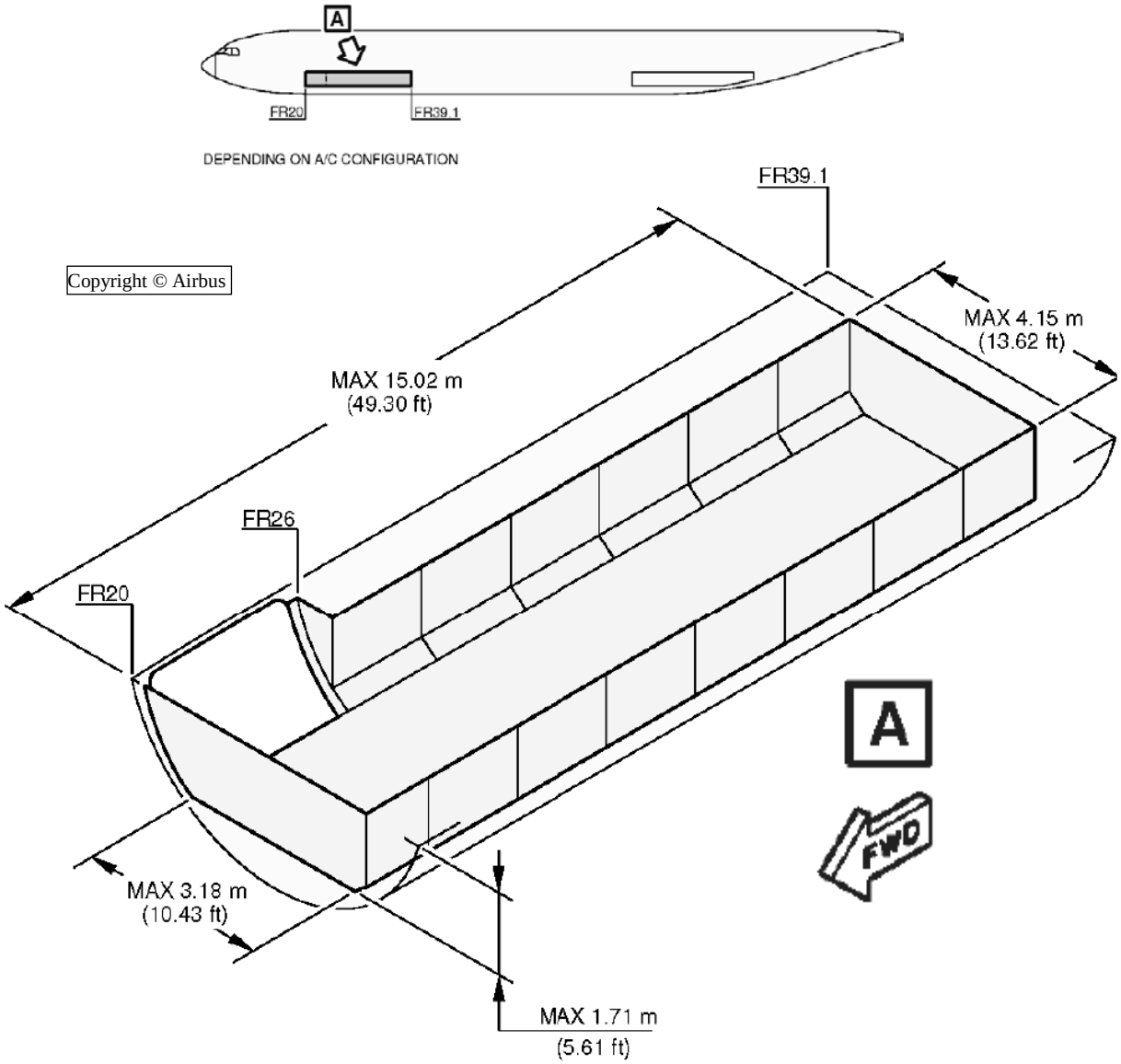
N/A this model

3.2.2. FORWARD COMPARTMENT.
3.2.2.1. Door.
Figure 3.5. Forward Compartment Door A340-300.



3.2.2.2. Compartment Dimensions.

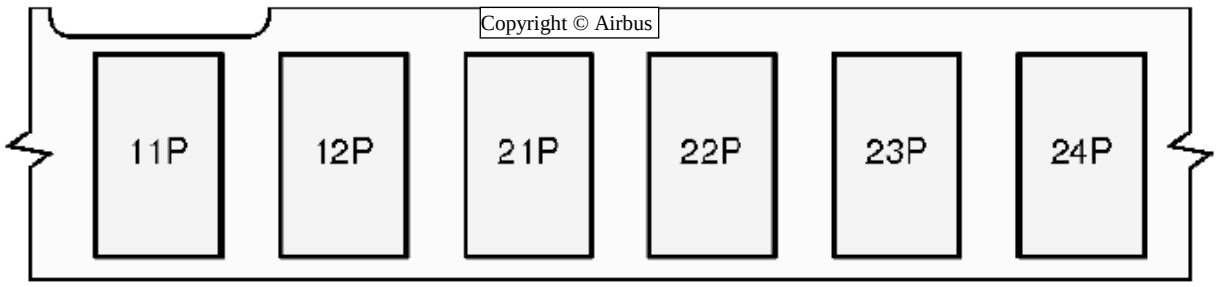
Figure 3.6. Forward Compartment Dimensions A340-300.



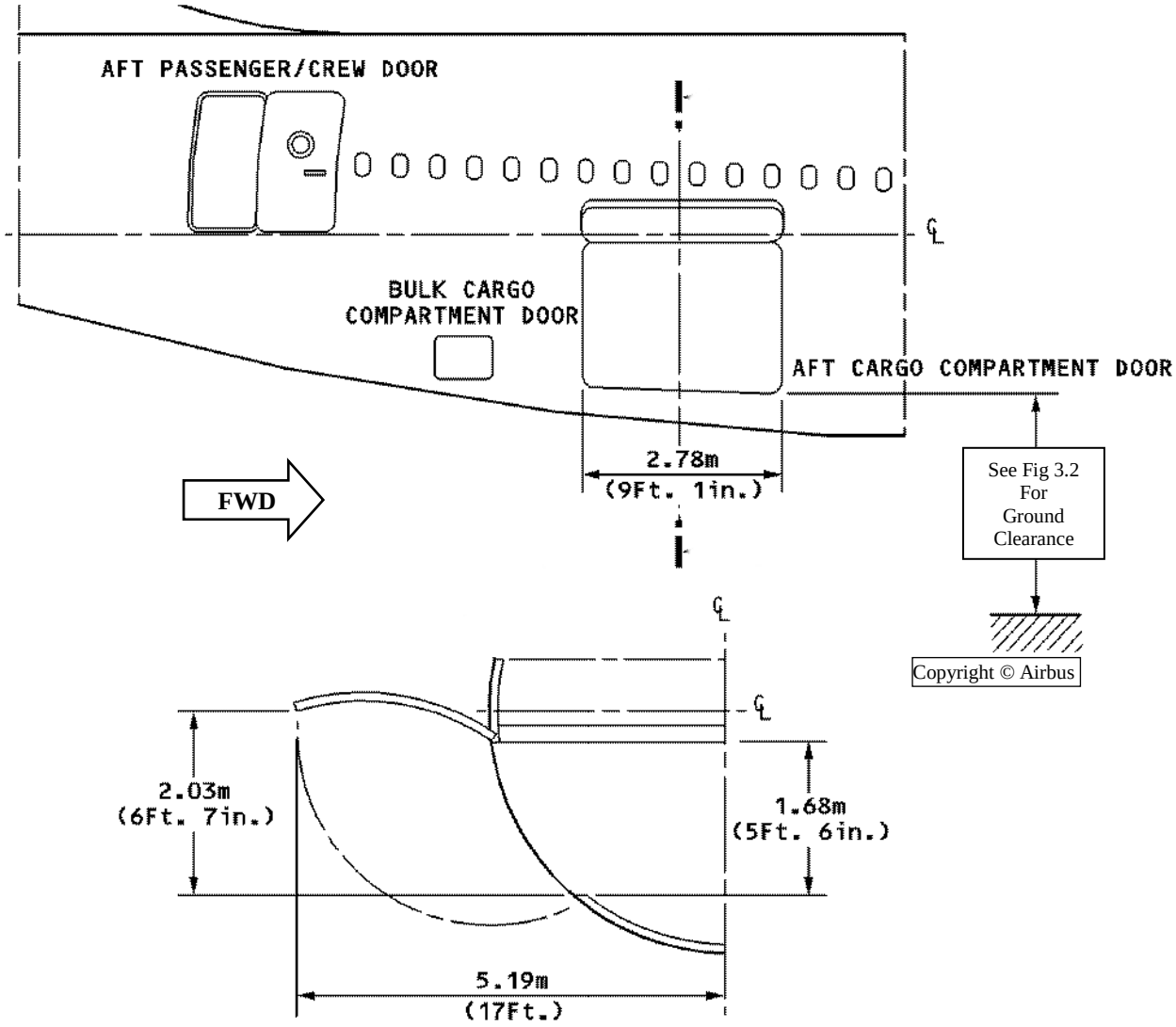
3.2.2.3. Pallets.

NOTE: See Attachment 1 for contour guide for the build-up of cargo.

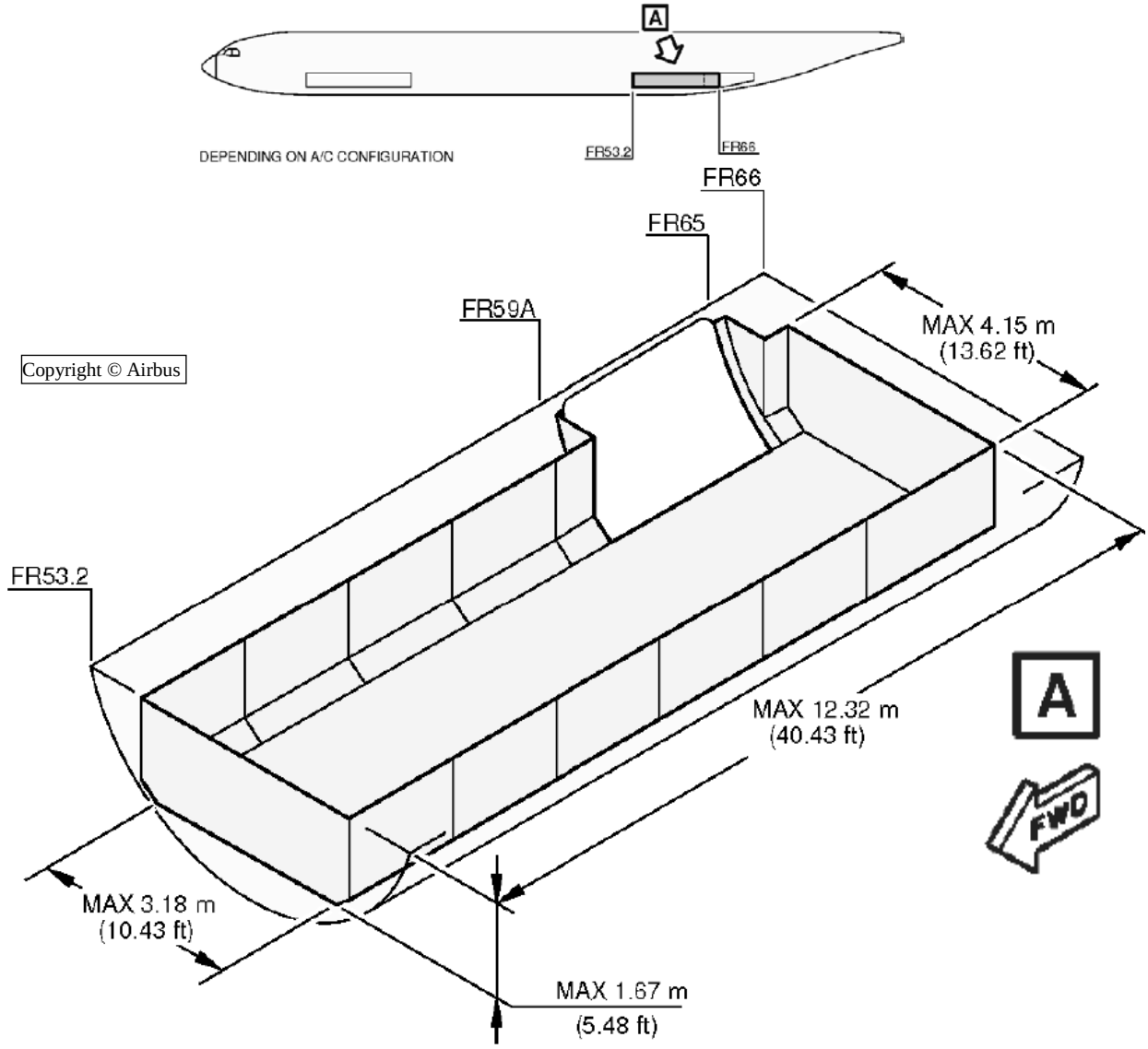
Figure 3.7. Forward Compartment Cargo Configurations A340-300.



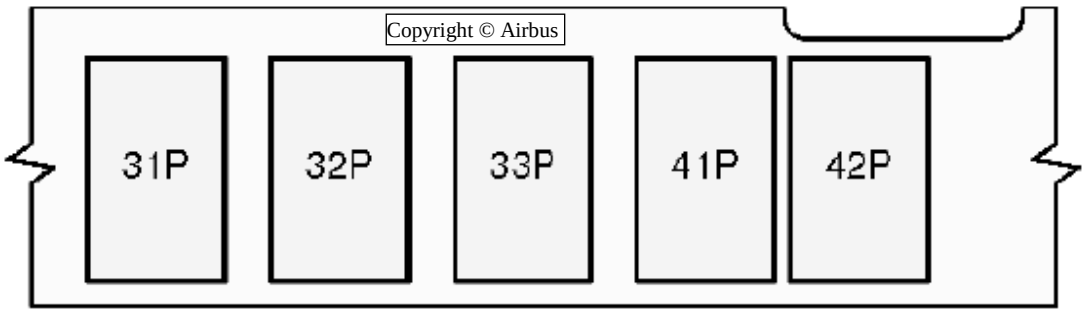
3.2.3. AFT COMPARTMENT.
3.2.3.1. Door.
Figure 3.8. Aft Compartment Door A340-300.



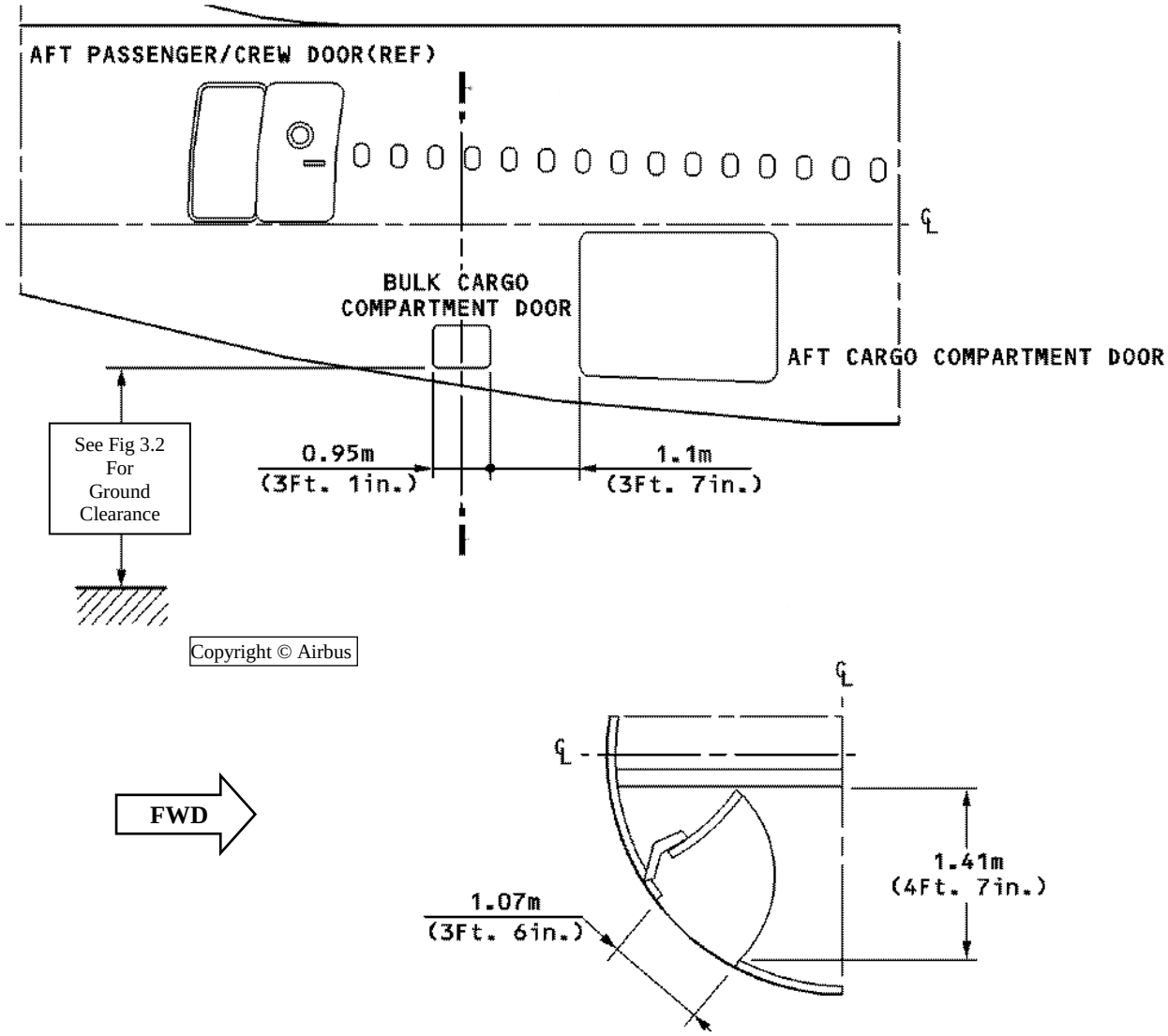
3.2.3.2. Compartment Dimensions.
Figure 3.9. Aft Compartment Dimensions A340-300.



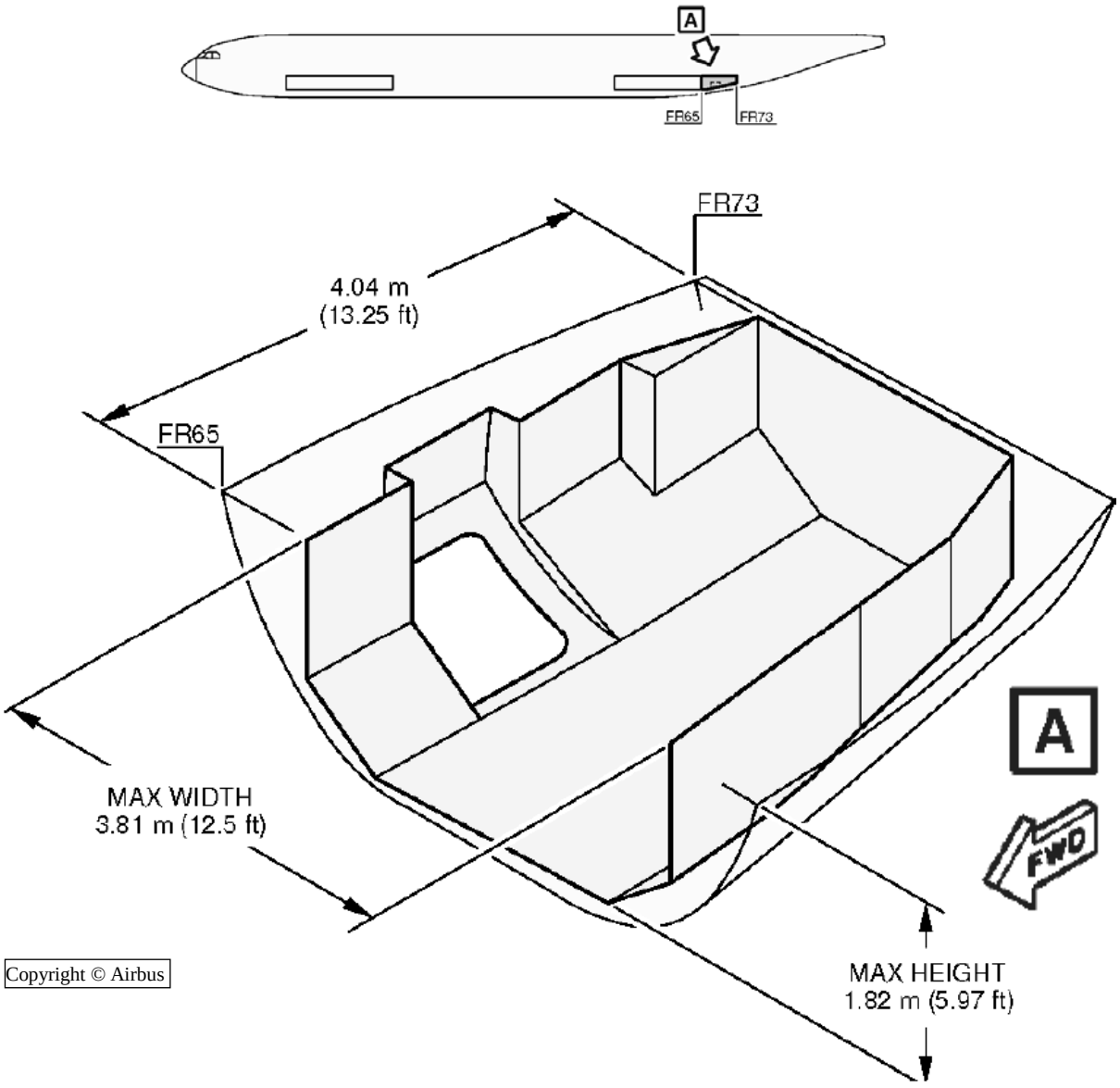
3.2.3.3. Pallets.
NOTE: See Attachment 1 for contour guide for the build-up of cargo.
Figure 3.10. Aft Compartment Cargo Configurations A340-300.



3.2.4. BULK COMPARTMENT.
3.2.4.1. Door.
Figure 3.11. Bulk Compartment Door A340-300.



3.2.4.2. Compartment Dimensions.
Figure 3.12. Bulk Compartment Dimensions A340-300.

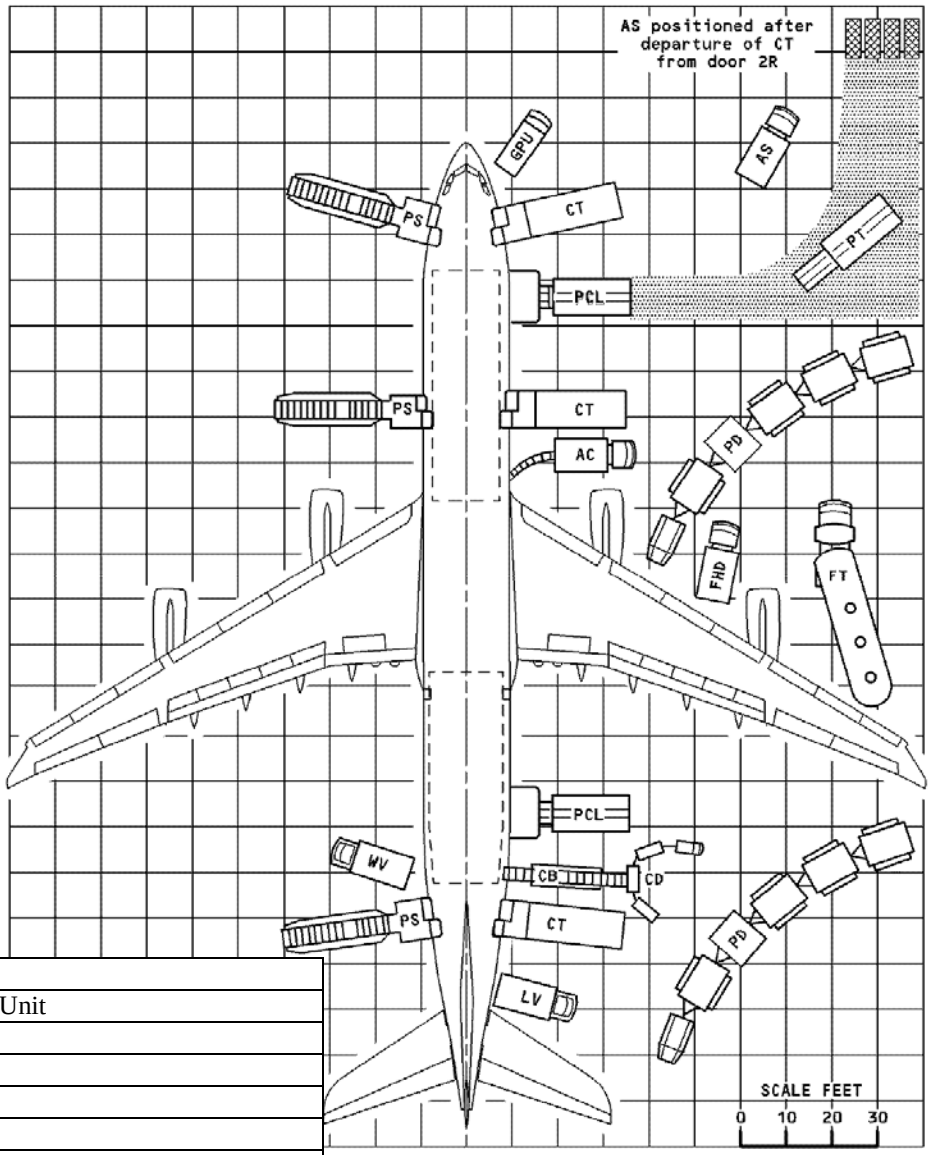


3.2.4.3. Pallets.
88" x 125" pallets cannot be loaded in this compartment.

3.3. SERVICING DIAGRAMS.

3.3.1. Servicing.

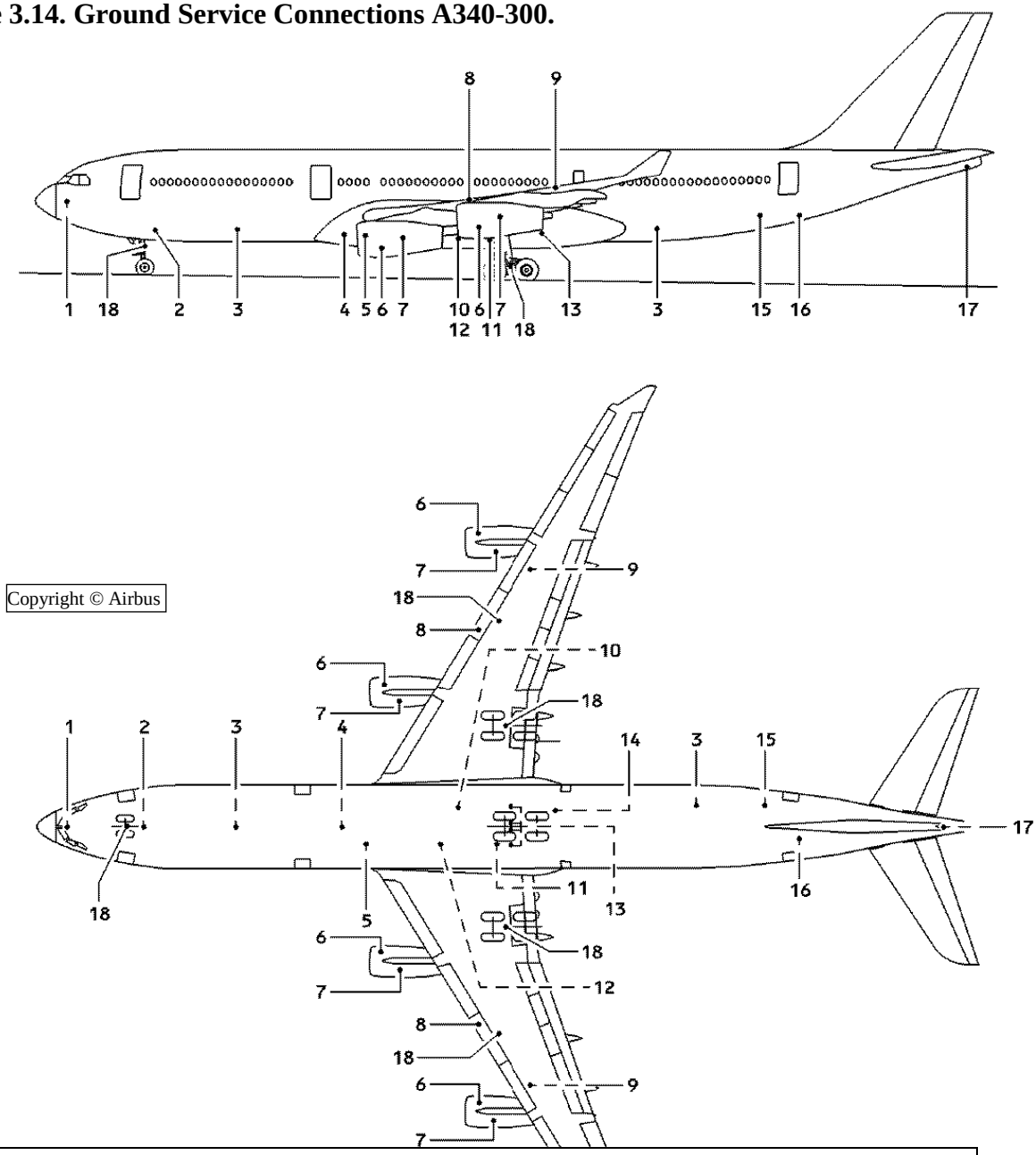
Figure 3.13. Typical Servicing Arrangement A340-300.



Servicing Codes	
AC	Air Conditioning Unit
AS	Air Start Unit
CB	Conveyor Belt
CD	Container Dolly
CT	Catering Truck
CS	Cabin Cleaners Steps
FHD	Fuel Hydrant Dispenser*
FT	Fuel Tanker *
	* When using a fuel tanker, the safety zone clearances must be IAW Local/Airport Reg's
GPU	Electrical Ground Power Unit
LV	Lavatory Vehicle
GC	Preconditioned Air Ground Truck
PB	Passenger Bridge
PCL	Pallet /Container Loader
PD	Pallet Dolly
PS	Passenger Stairs
PT	Pallet Transporter
WV	Potable Water Vehicle

3.3.2. Ground Connections.

Figure 3.14. Ground Service Connections A340-300.



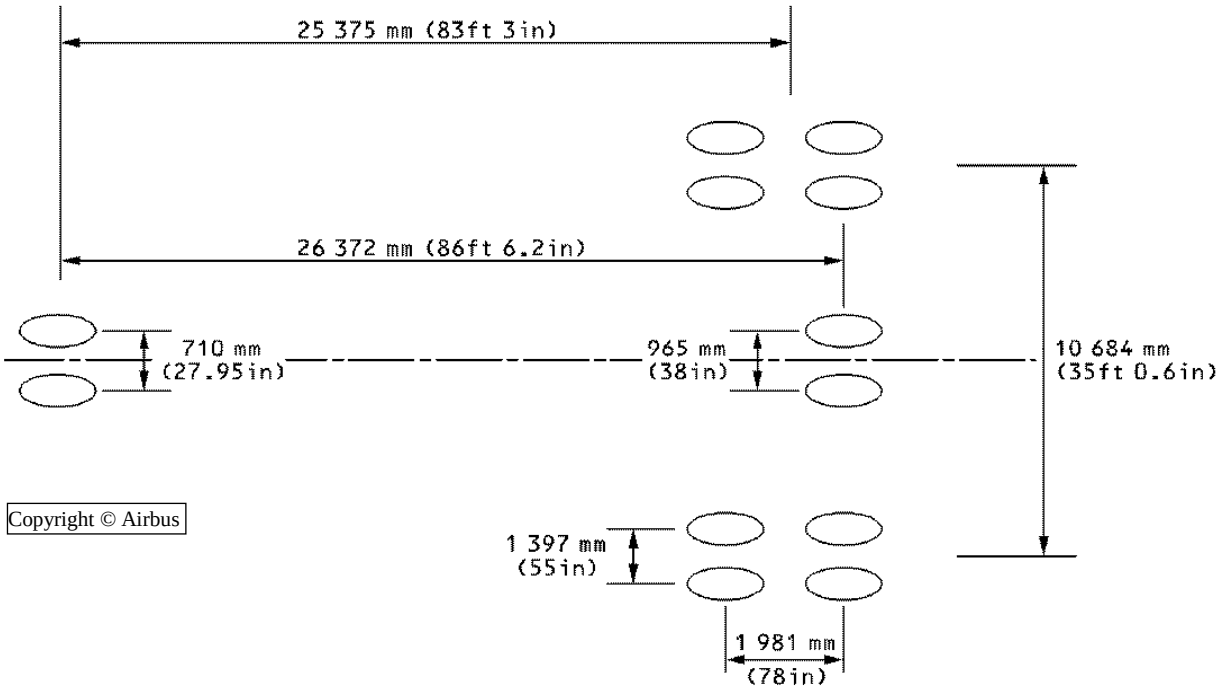
Ground Connection Codes			
1	Oxygen System	10	Hyd Grnd Pwr Supply-Yellow
2	External Electrical Power	11	Hyd Reserv Fill/Grnd Pwr Supply-Green
3	Potable Water Drain	12	Hyd Reserv Air Press/Grnd Pwr Supply-Blue
4	Low Pressure Preconditioning	13	Nitrogen Charging (Hyd Accumulators)
5	High Press Preconditioning & Eng Start	14	Refuel/Defuel Panel
6	IDG Oil Filling	15	Potable Water Filling
7	Engine Oil Filling	16	Toilet Servicing
8	Pressure Refuel	17	APU Oil Filling
9	Overwing Refuel	18	Aircraft Grounding Pt.

3.4. AIRFIELD SUITABILITY.

3.4.1. Landing Gear Footprint.

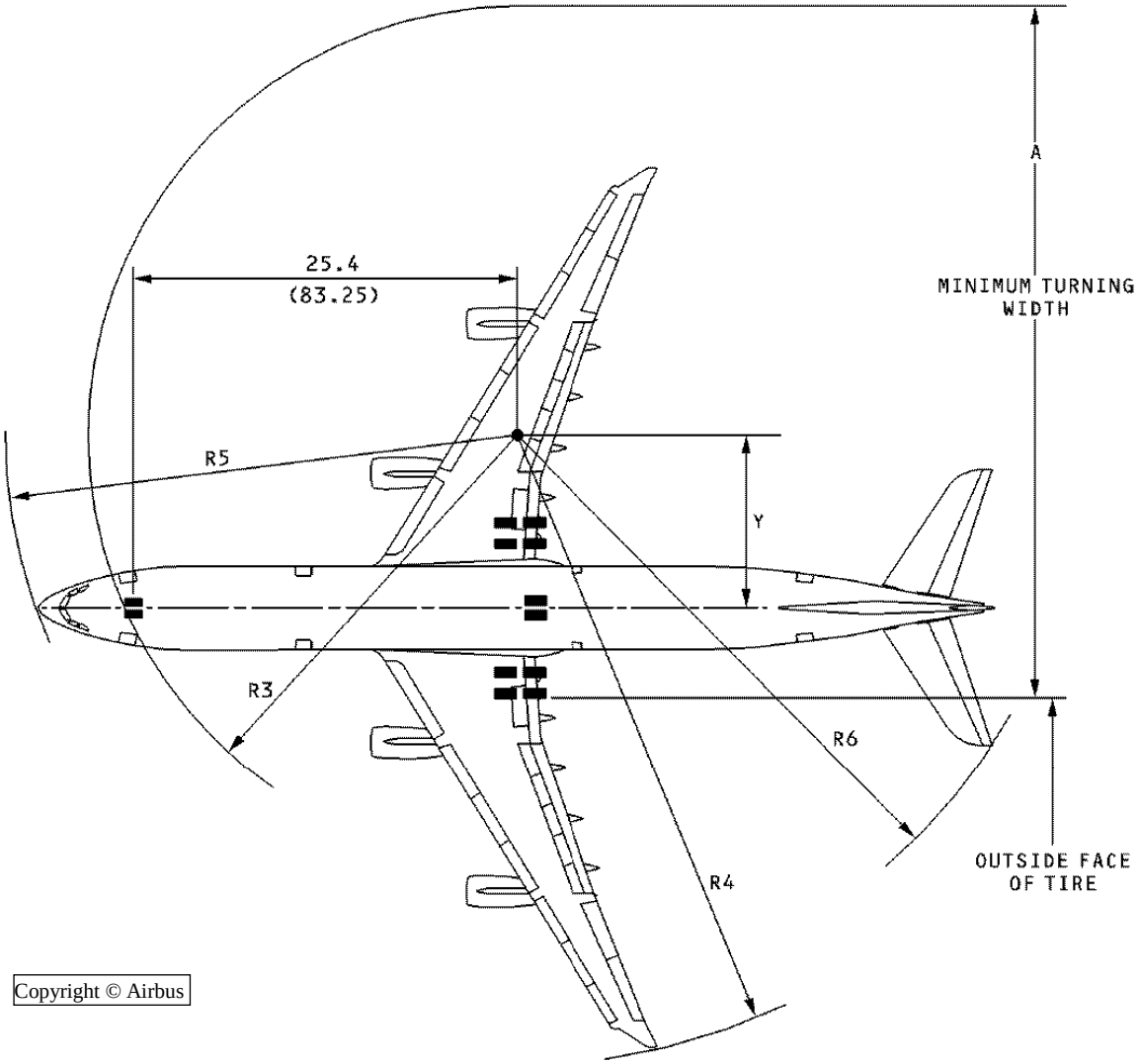
Figure 3.15. Landing Gear Footprint A340-300.

Max Ramp Wt.	254,400 kg (560,850lb)	257,900 kg (568,575lb)	260,900 kg (575,175lb)	262,900 kg (579,600lb)
Nose Gear Tire Size	1050 x 395 R16			
Nose Gear Tire Press.	11.4 bar (165psi)	11.6 bar (168psi)	11.6 bar (168psi) 12.1 bar (175psi)	12.1 bar (175psi)
Wing Gear Tire Size	1400x530R23 (54x21-23(bias))			
Wing Gear Tire Press.	13.1 bar (158psi)	13.2 bar (191psi)	13.2 bar (191psi) 14.2 bar (206psi)	14.2 bar (206psi)
Center Gear Tire Size	1400x530R23 (54x21-23(bias))			
Center Gear Tire Press.	10.4 bar (150psi)	10.9 bar (158psi)	10.9 bar (158psi)	10.9 bar (158psi)



3.4.2. Minimum Turning Radii.

Figure 3.16. Minimum Turning Radii A340-300.



TYPE OF TURN	EFFECTIVE TURN ANGLE	Y	A	R3	R4	R5	R6
2	62.0°	13.59 (44.6)	49.49 (162.4)	29.59 (97.1)	44.82 (147.0)	35.01 (114.9)	39.16 (128.5)

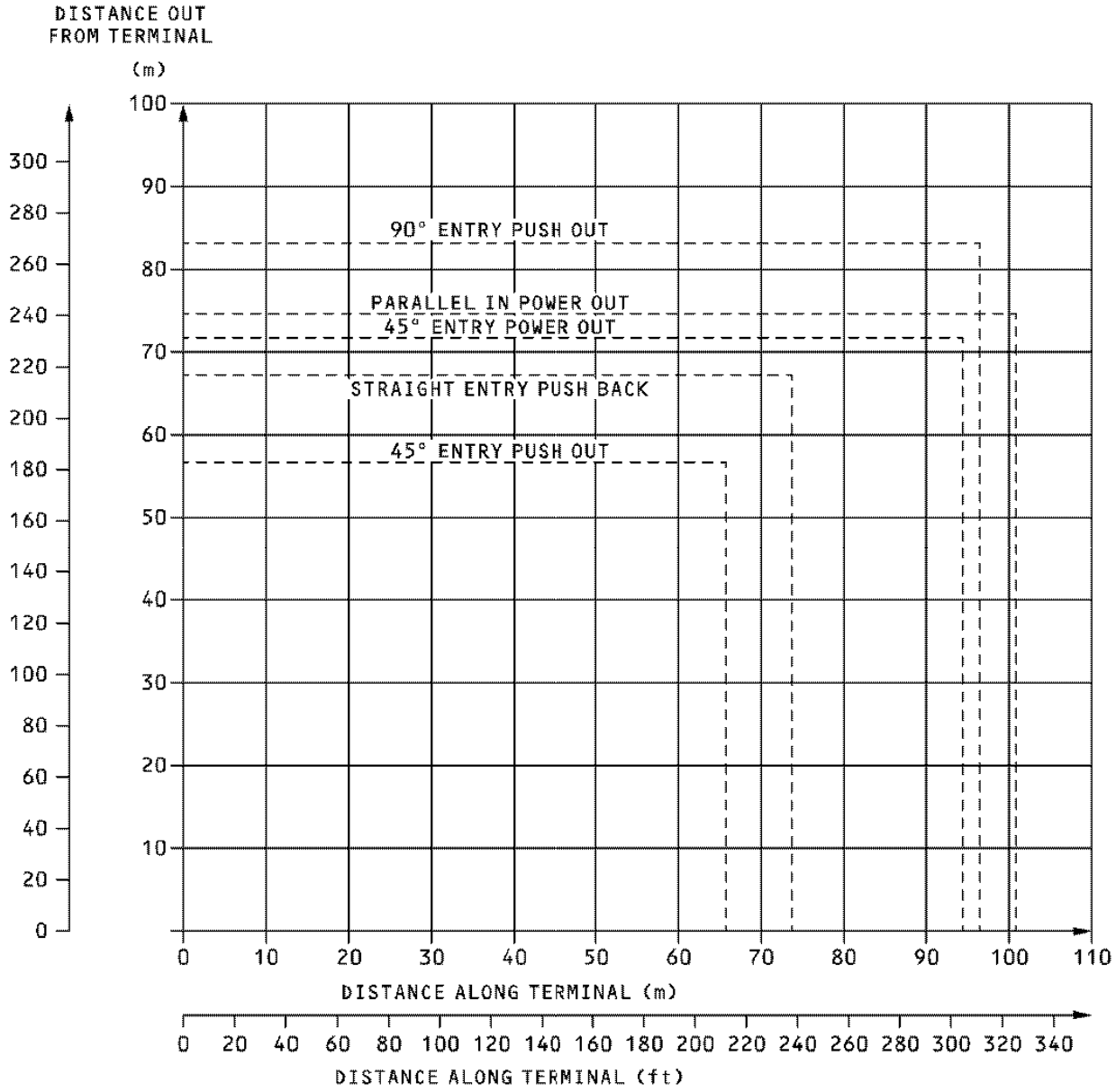
NOTE: TYPE OF TURN:
2 – SYMMETRIC THRUST – NO BRAKING

DIMENSIONS IN METERS (FEET IN BRACKETS)

MODEL 300

FAC8 04 02 00 0 ACMA 00

3.4.3. Parking Footprint.
Figure 3.17. Parking Footprint A340-300.

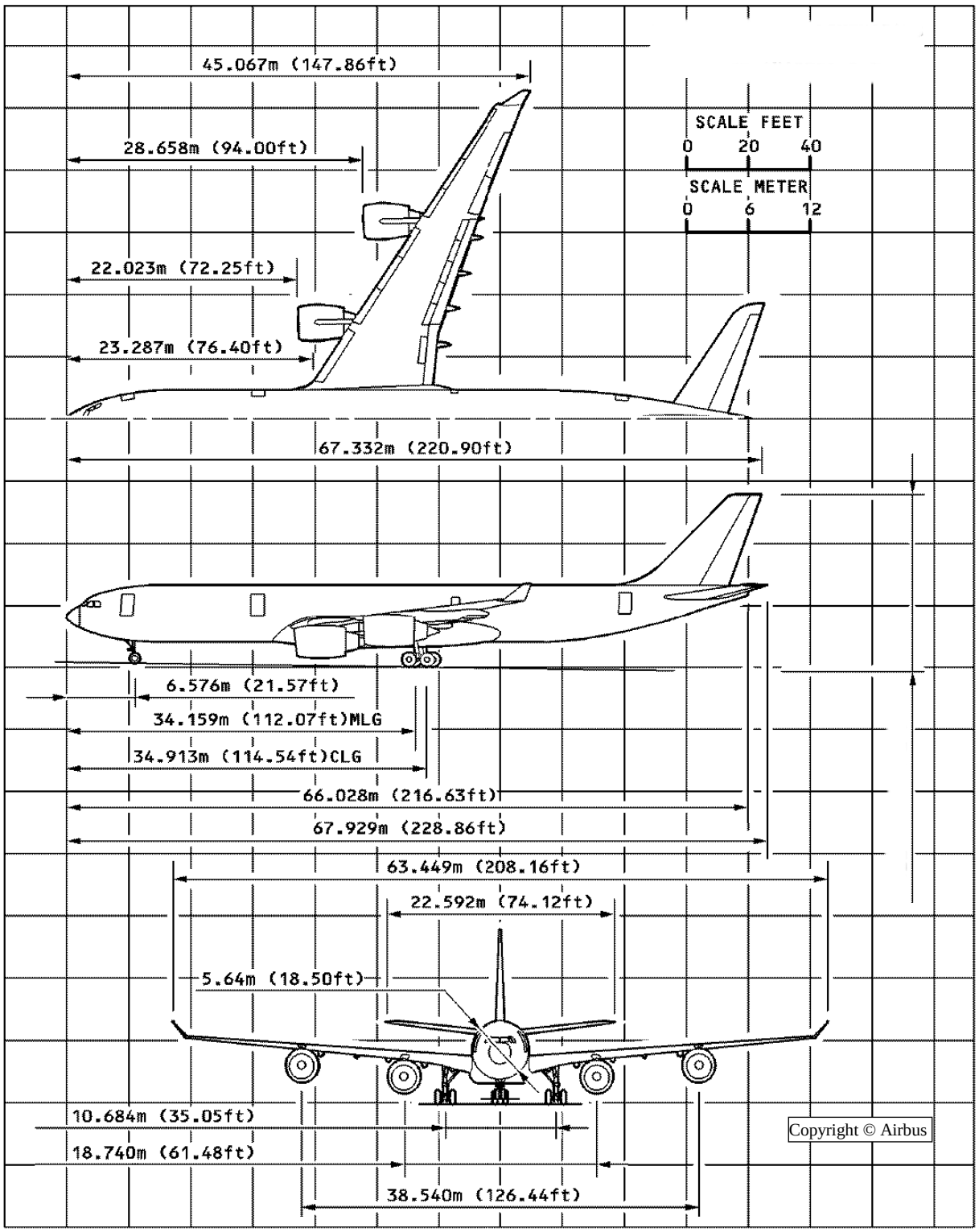


Chapter 4
A340-500

4.1. DIMENSIONS.

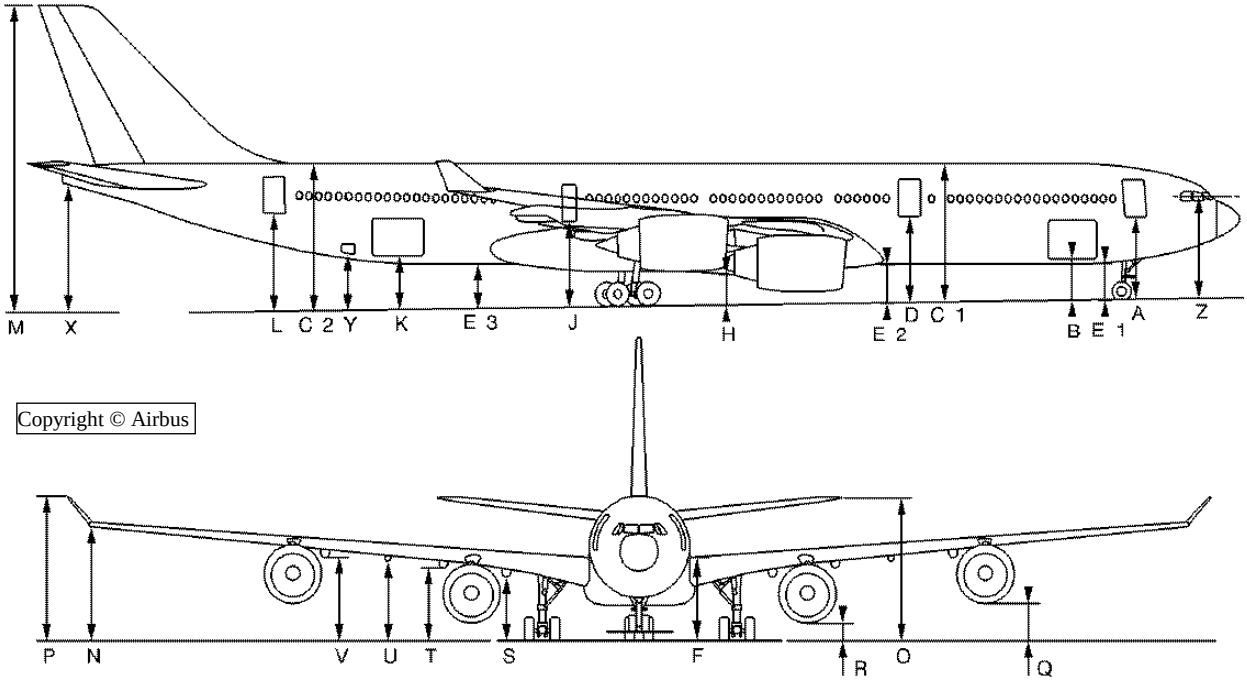
4.1.1. General Dimensions.

Figure 4.1. General Dimensions A340-500.



4.1.2. Ground Clearance.

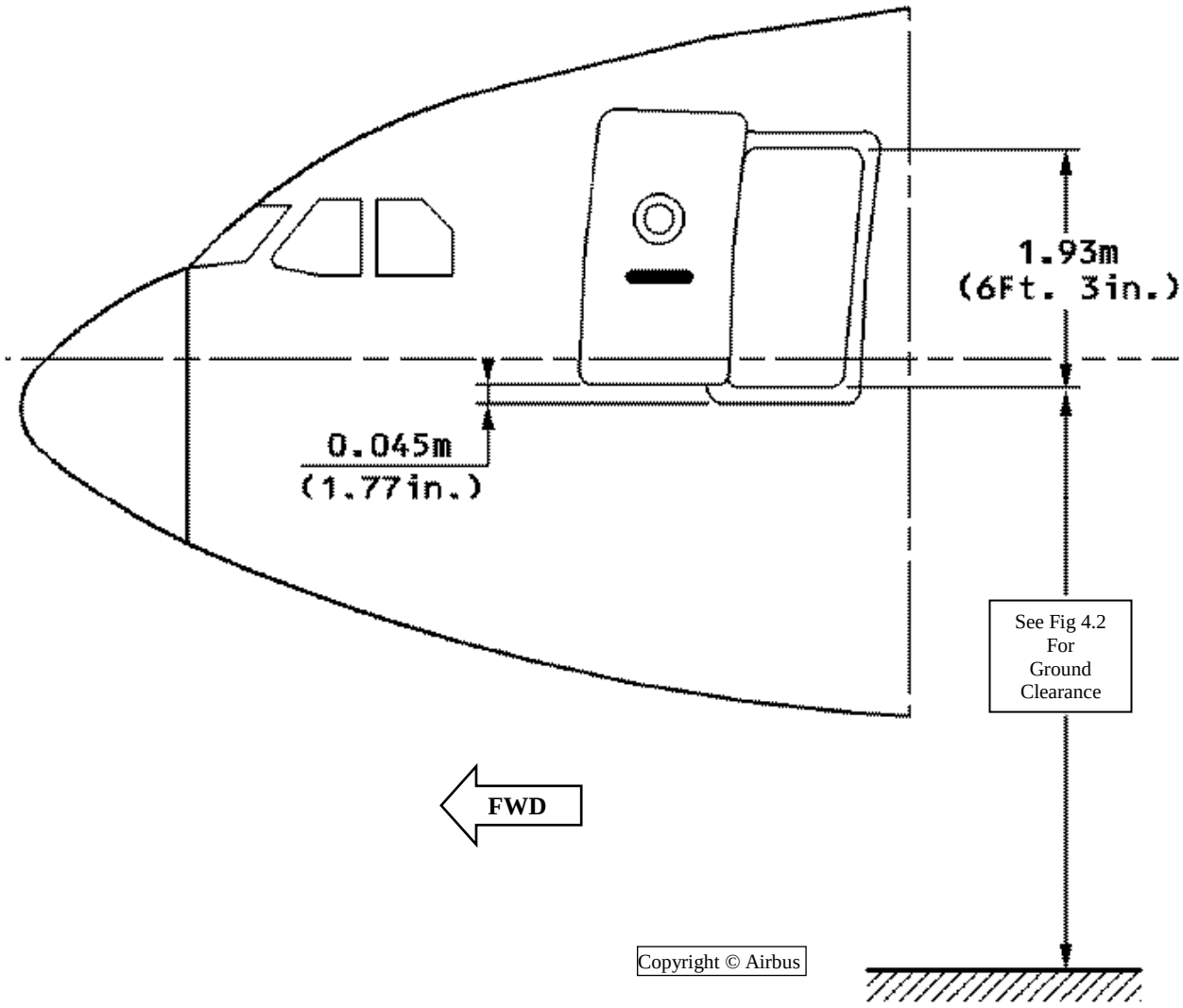
Figure 4.2. Ground Clearance A340-500.



Vertical Clearances					
		OEW		**MTW**	
DOOR		**Mid CG**		**Fwd CG**	**Aft CG**
Pax/Crew	**A**	15.61'		14.85'	15.18'
FWD	**B**	9.44'		8.7'	8.98'
	C1	26.08'		25.38'	25.54'
	C2	27.95'		27.4'	27.09'
	D	16.28'		15.58'	15.74'
	E1	7.1'		6.36'	6.64'
	E2	7.58'		6.88'	7.04'
	E3	7.51'		6.89'	6.79'
	F	15.22'		14.56'	14.59'
	H	6.03'		5.36'	5.42'
	J	17.28'		16.66'	16.57'
AFT	**K**	11.59'		11.01'	10.79'
	L	18.86'		18.31'	18.0'
	M	57.51'		57.01'	56.53'
	N	20.31'		19.7'	19.56'
	O	28.47'		27.97'	27.48'
	P	25.61'		25.01'	24.83'
	Q	5.75'		5.1'	5.1'
	R	2.25'		1.58'	1.66'
	S	12.66'		12.03'	11.96'
	T	14.2'		13.57'	13.52'
	U	14.35'		13.71'	13.66'
	V	15.74'		15.13'	15.01'
	X	24.08'		23.57'	23.12'
BULK	**Y**	11.92'		11.35'	11.09'
	Z	19.25'		18.48'	18.86'

4.2. COMPARTMENT CONFIGURATIONS.

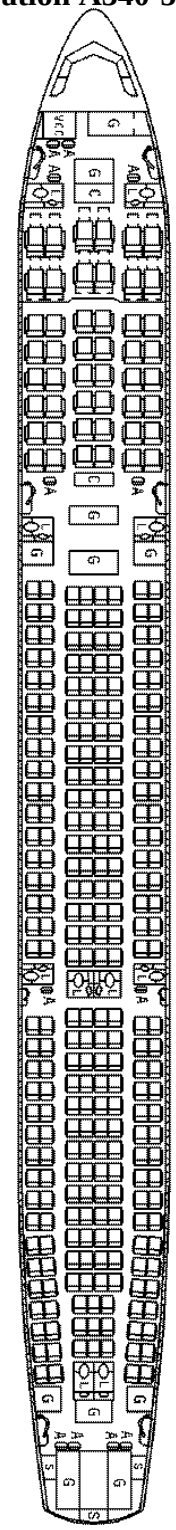
4.2.1. MAIN/PASSENGER COMPARTMENT.
4.2.1.1. Pax/Crew Door.
Figure 4.3. Pax/Crew Door A340-500.



4.2.1.2. Main Door.
N/A this model

4.2.1.3. Compartment Dimensions.

Figure 4.4. Typical Passenger Configuration A340-500.



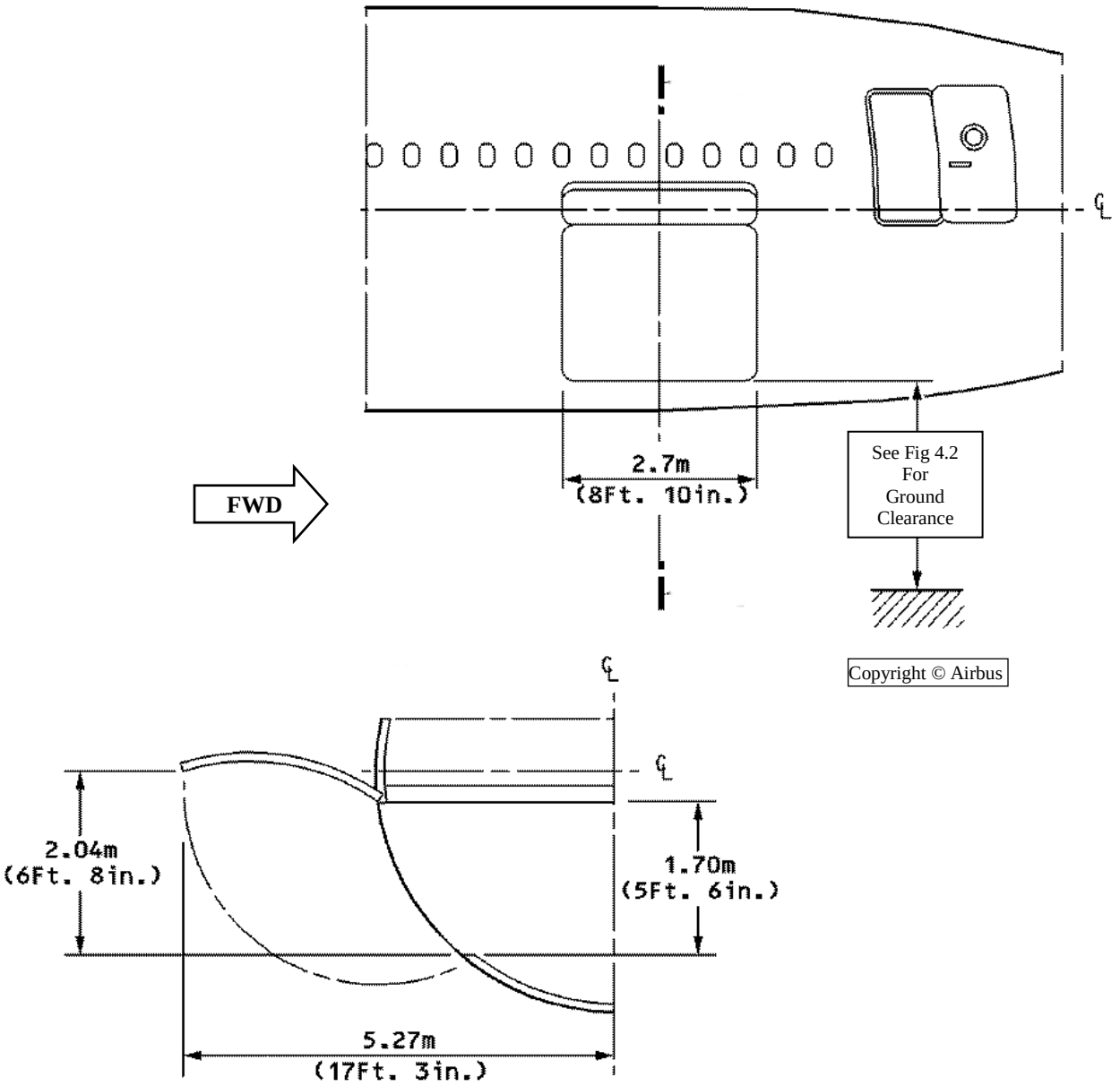
313 Seats
3 Class
12 First
36 Business
265 Tourist

A = Attendant Seat (12)
CS = Coat Storage
G = Galley (11)
L = Lavatory (10)
S = Storage (3)
VCC = Video (1)

4.2.1.4. Pallets/Passengers.

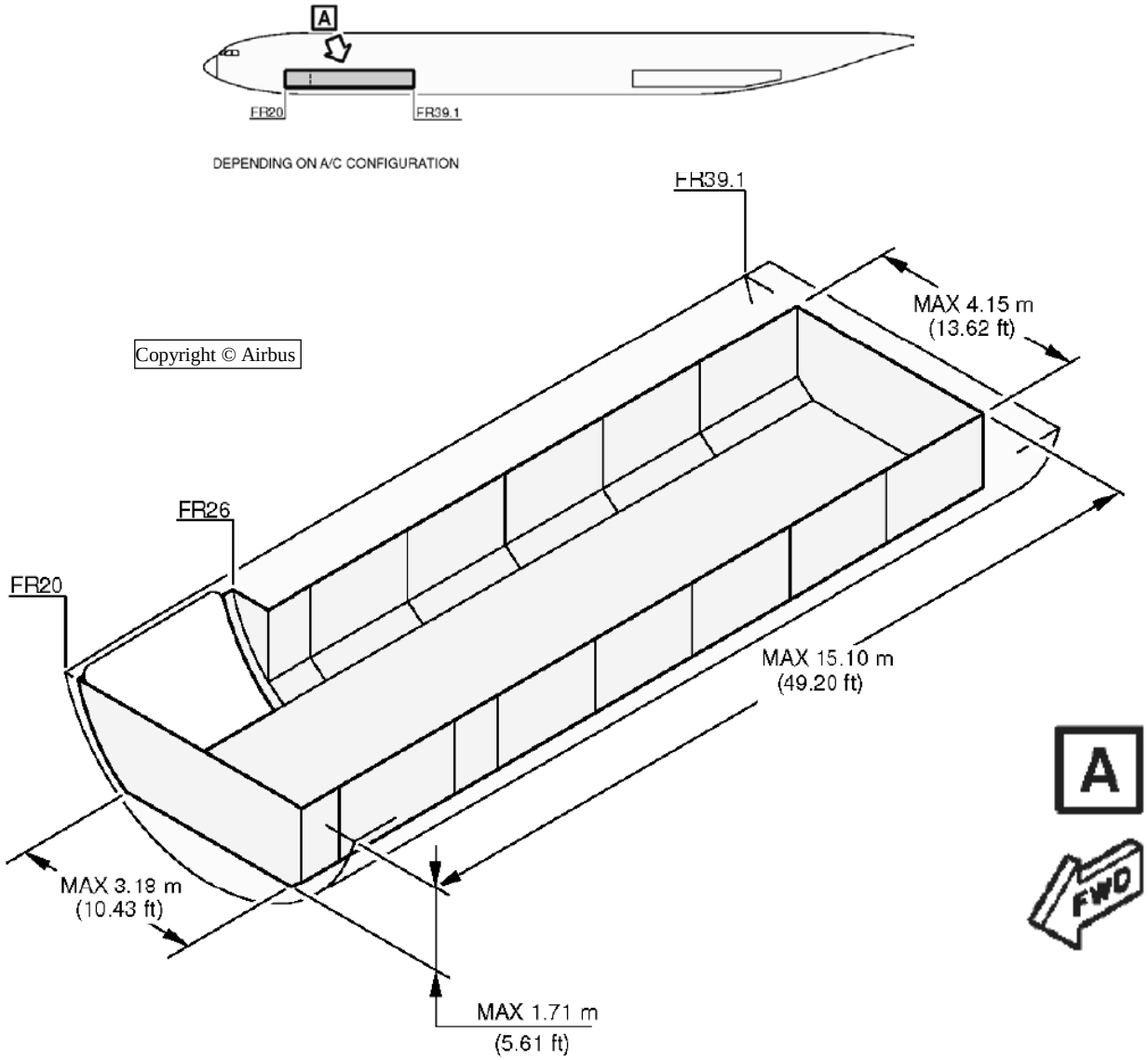
N/A this model

4.2.2. FORWARD COMPARTMENT.
4.2.2.1. Door.
Figure 4.5. Forward Compartment Door A340-500.



4.2.2.2. Compartment Dimensions.

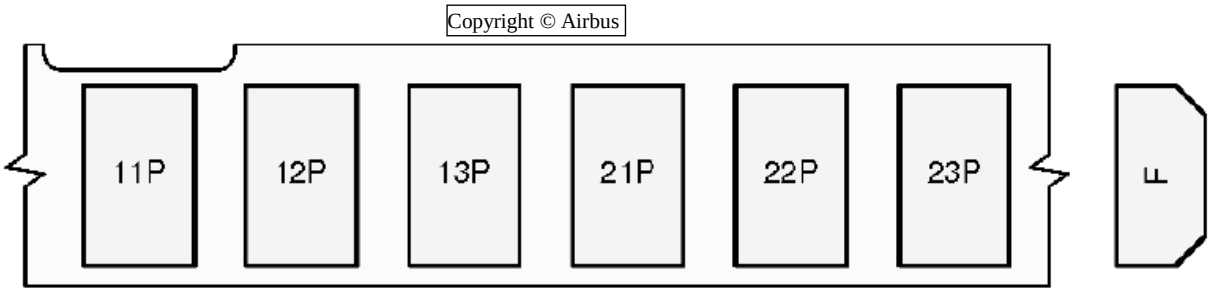
Figure 4.6. Forward Compartment Dimensions A340-500.



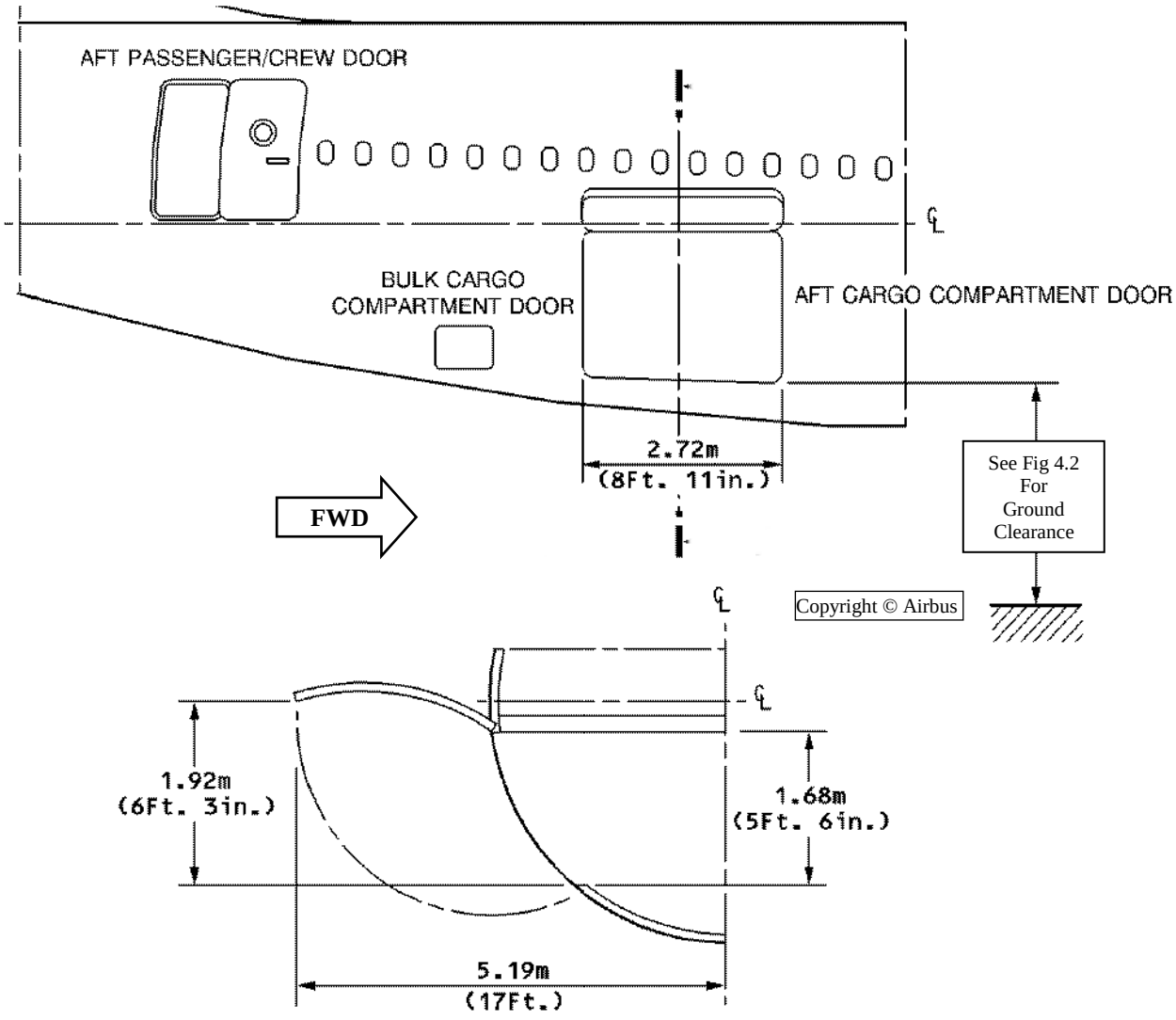
4.2.2.3. Pallets.

NOTE: See Attachment 1 for contour guide for the build-up of cargo.

Figure 4.7. Forward Compartment Cargo Configurations A340-500.

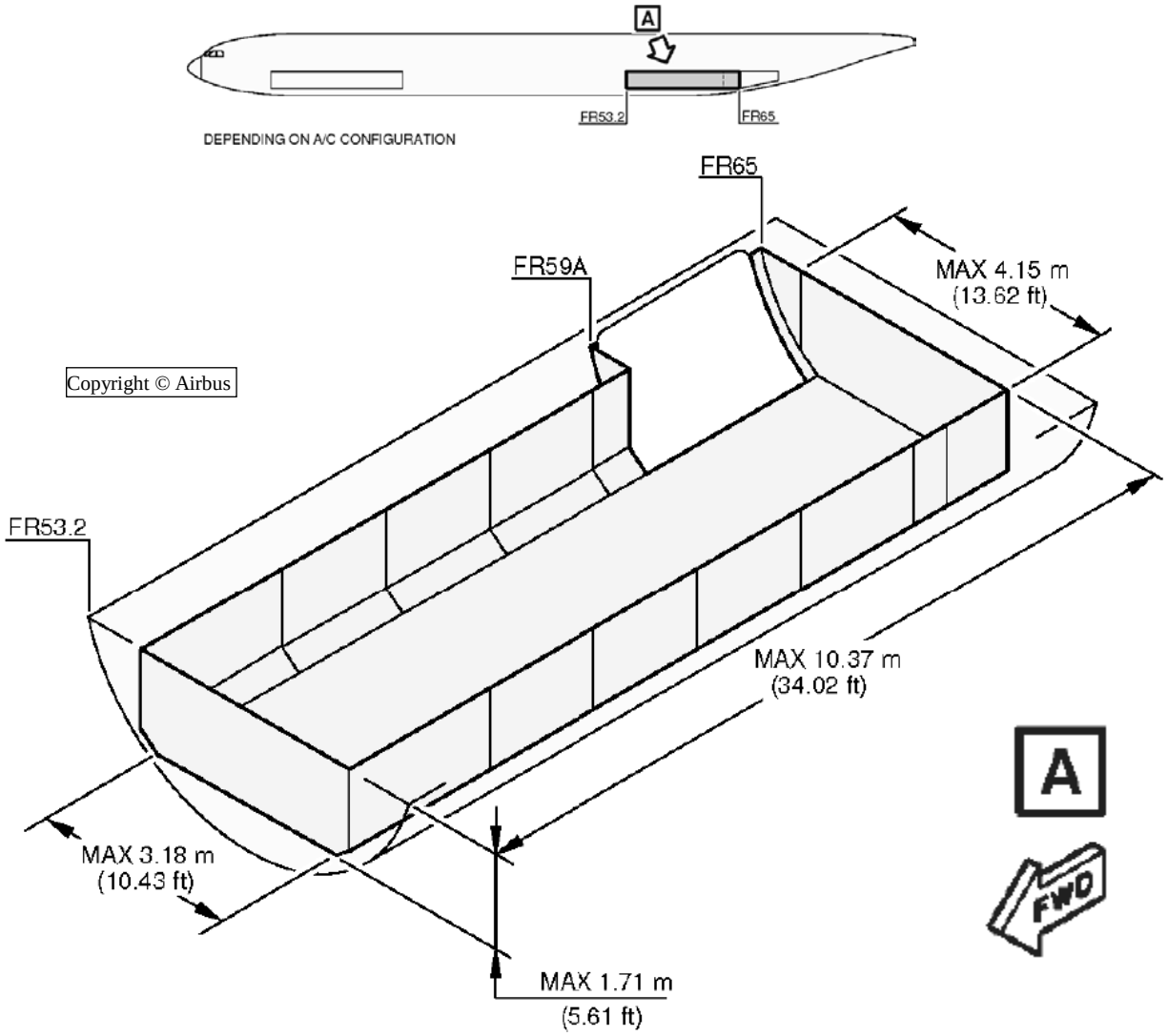


4.2.3. AFT COMPARTMENT.
4.2.3.1. Door.
Figure 4.8. Aft Compartment Door A340-500.



4.2.3.2. Compartment Dimensions.

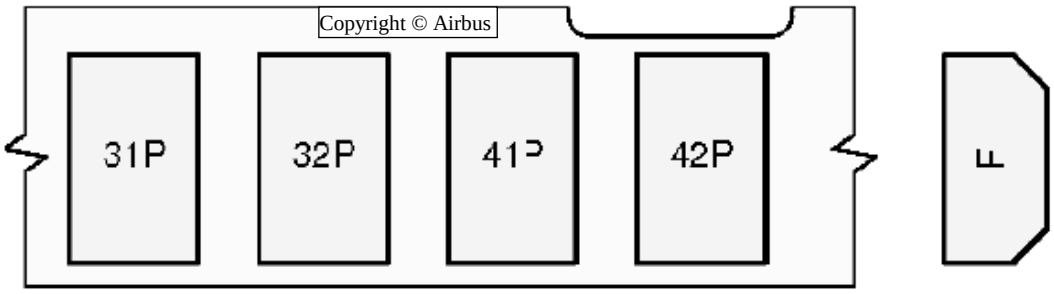
Figure 4.9. Aft Compartment Dimensions A340-500.



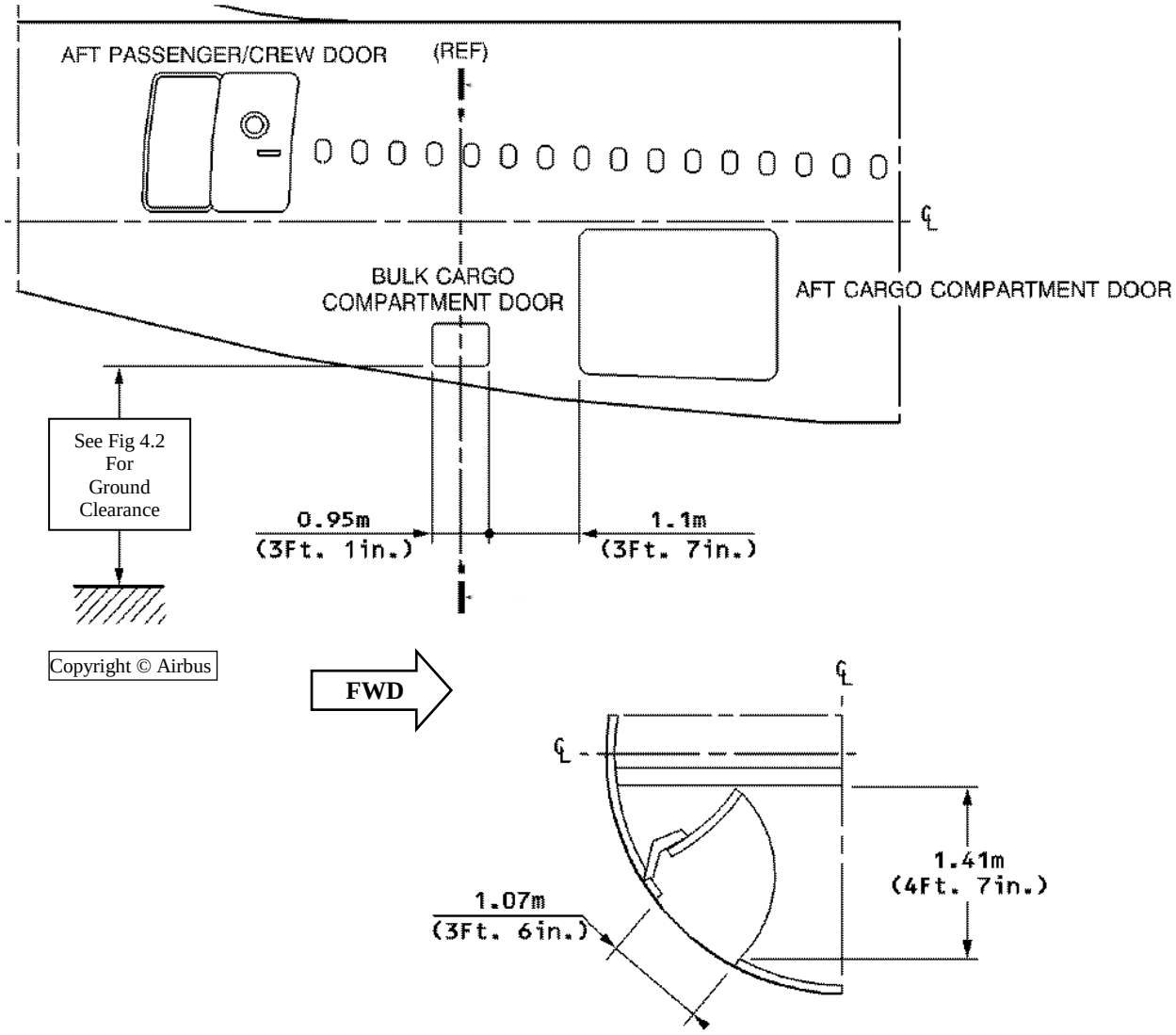
4.2.3.3. Pallets.

NOTE: See Attachment 1 for contour guide for the build-up of cargo.

Figure 4.10. Aft Compartment Cargo Configurations A340-500.

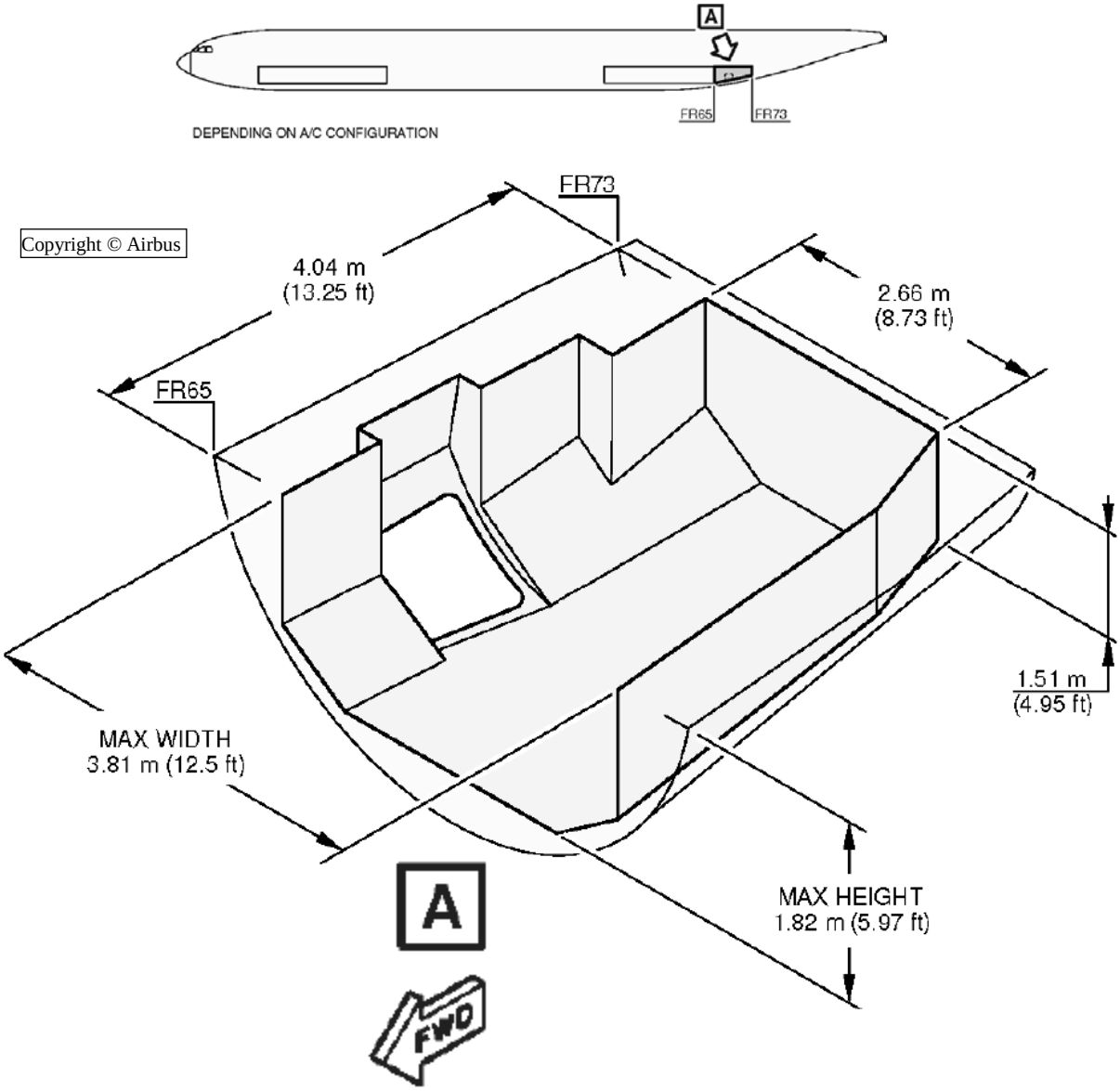


4.2.4. BULK COMPARTMENT.
4.2.4.1. Door.
Figure 4.11. Bulk Compartment Door A340-500.



4.2.4.2. Compartment Dimensions.

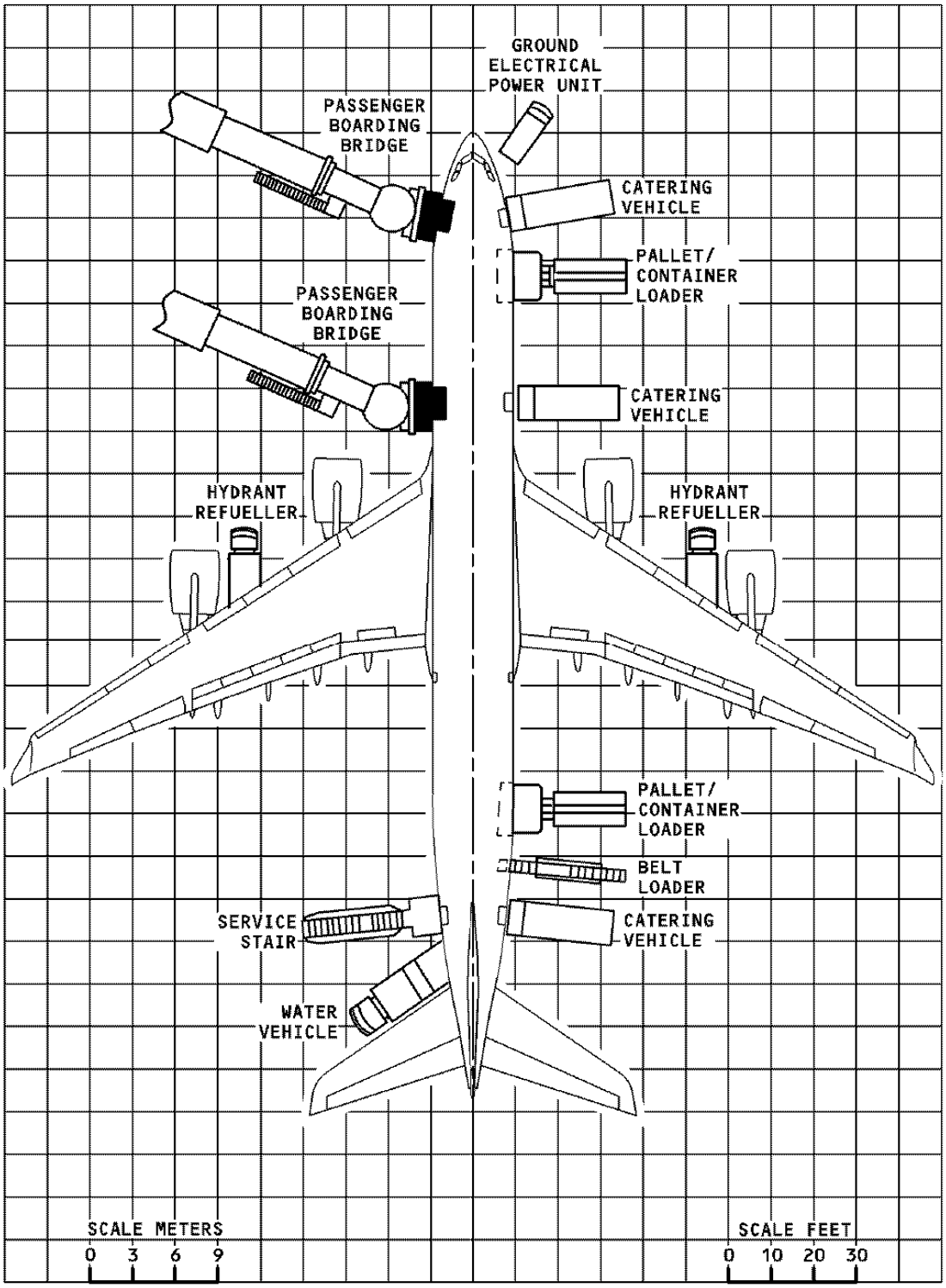
Figure 4.12. Bulk Compartment Dimensions A340-500.



4.2.4.3. Pallets.

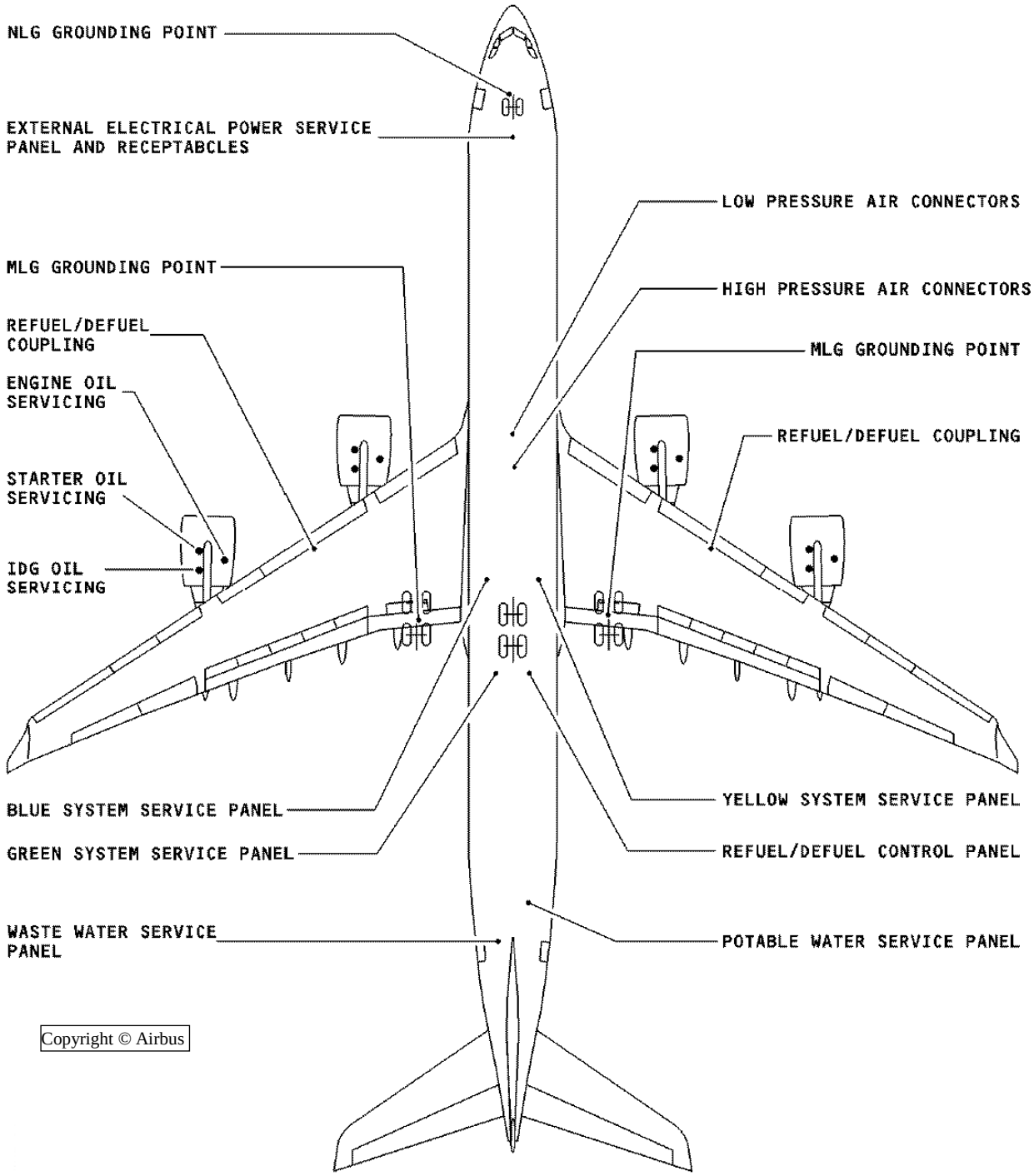
88" x 125" pallets cannot be loaded in this compartment.

4.3. SERVICING DIAGRAMS.
4.3.1. Servicing.
Figure 4.13. Typical Servicing Arrangement A340-500.



4.3.2. Ground Connections.

Figure 4.14. Ground Service Connections A340-500.

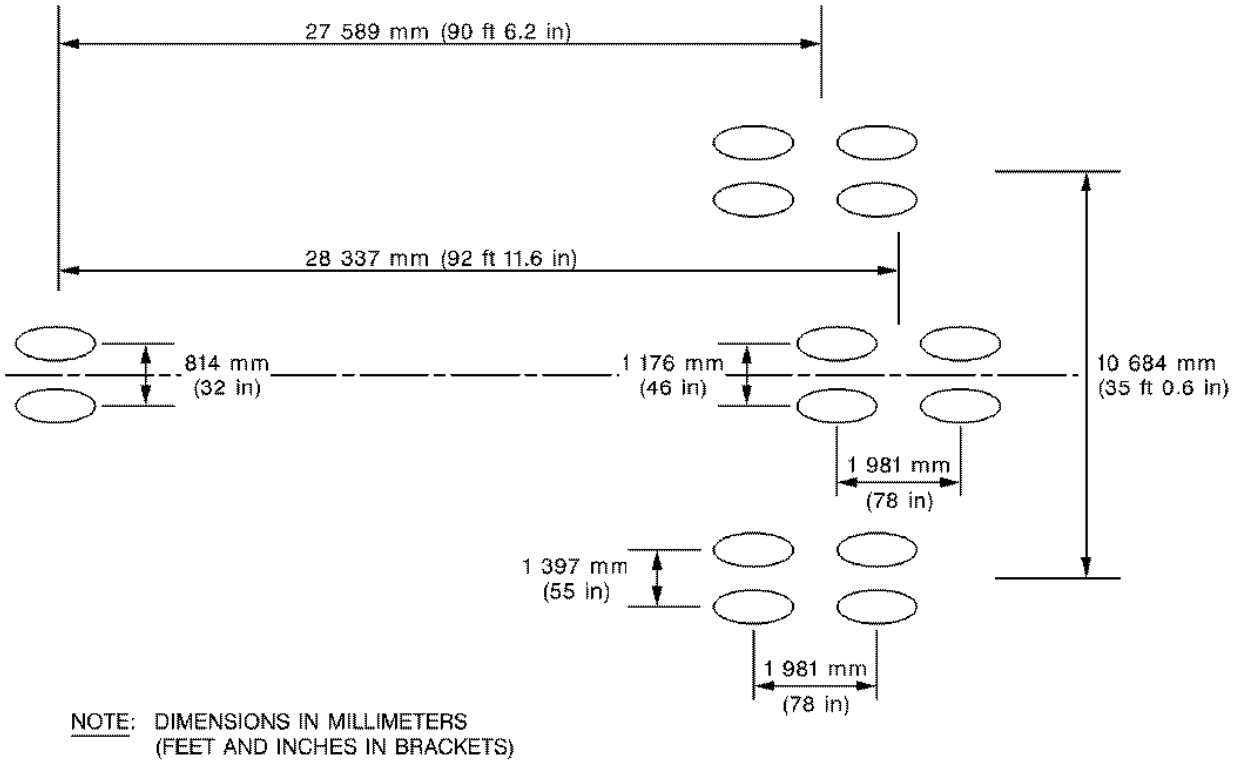


4.4. AIRFIELD SUITABILITY.

4.4.1. Landing Gear Footprint.

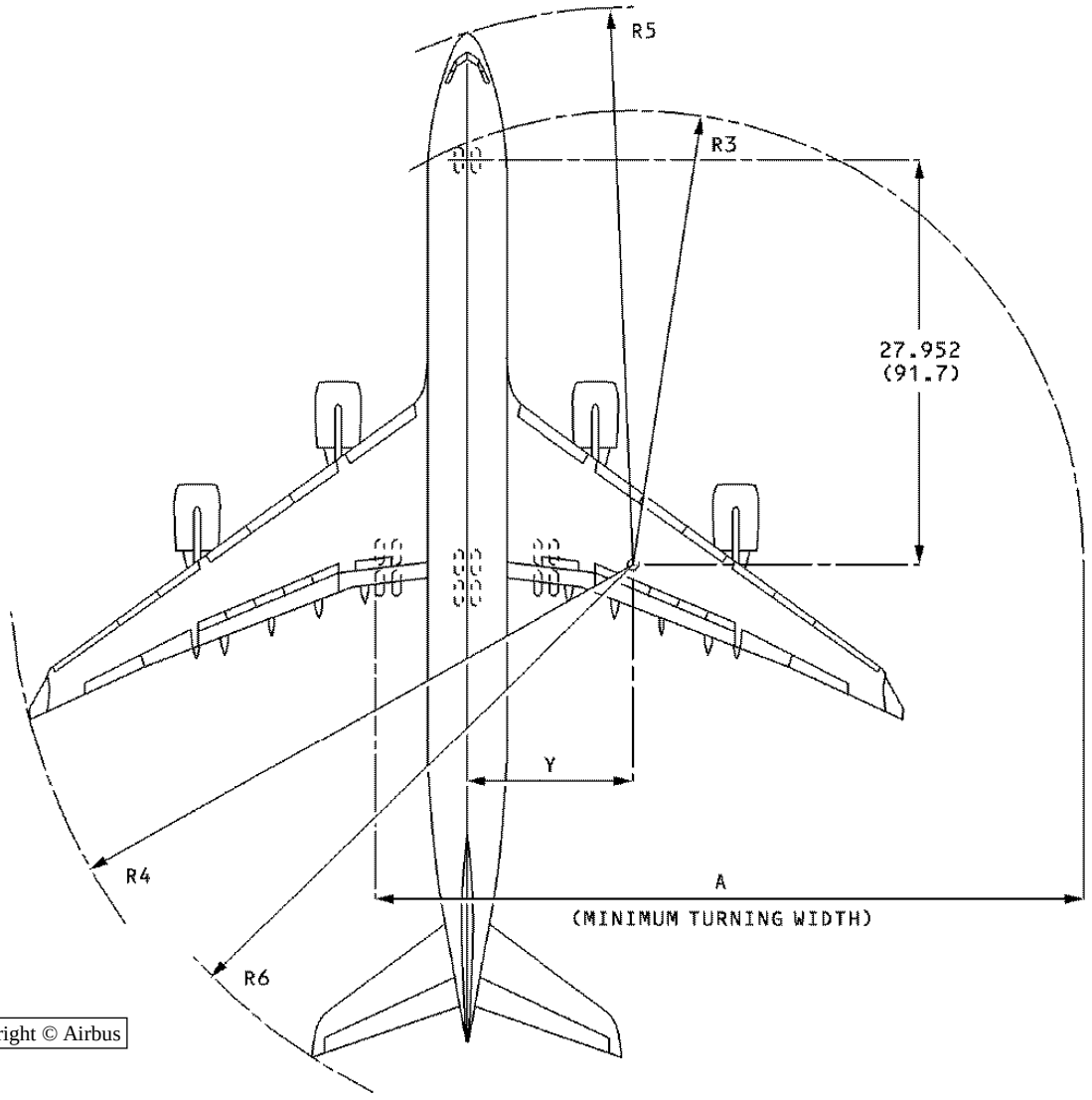
Figure 4.15. Landing Gear Footprint A340-500.

Max Ramp Wt.	369,200 kg (813,950lb)	373,200 kg (822,775lb)	381,200 kg (840,400lb)
Nose Gear Tire Size	45 x 18 R17 36PR		
Nose Gear Tire Press.	14.1 bar (205psi)		
Wing Gear Tire Size	1400x530R23 40PR		
Wing Gear Tire Press.	16.1 bar (234psi)		
Center Gear Tire Size	1400x530R23 40PR		
Center Gear Tire Press.	15.0 bar (218psi)		16.1 bar (234psi)



4.4.2. Minimum Turning Radii.

Figure 4.16. Minimum Turning Radii A340-500.



TYPE OF TURN	EFFECTIVE TURN ANGLE	Y	A	R3	R4	R5	R6
2	65.2°	12.8 (42.1)	50.5 (165.8)	31.4 (102.9)	45.9 (150.4)	36.8 (120.8)	41.4 (134.9)

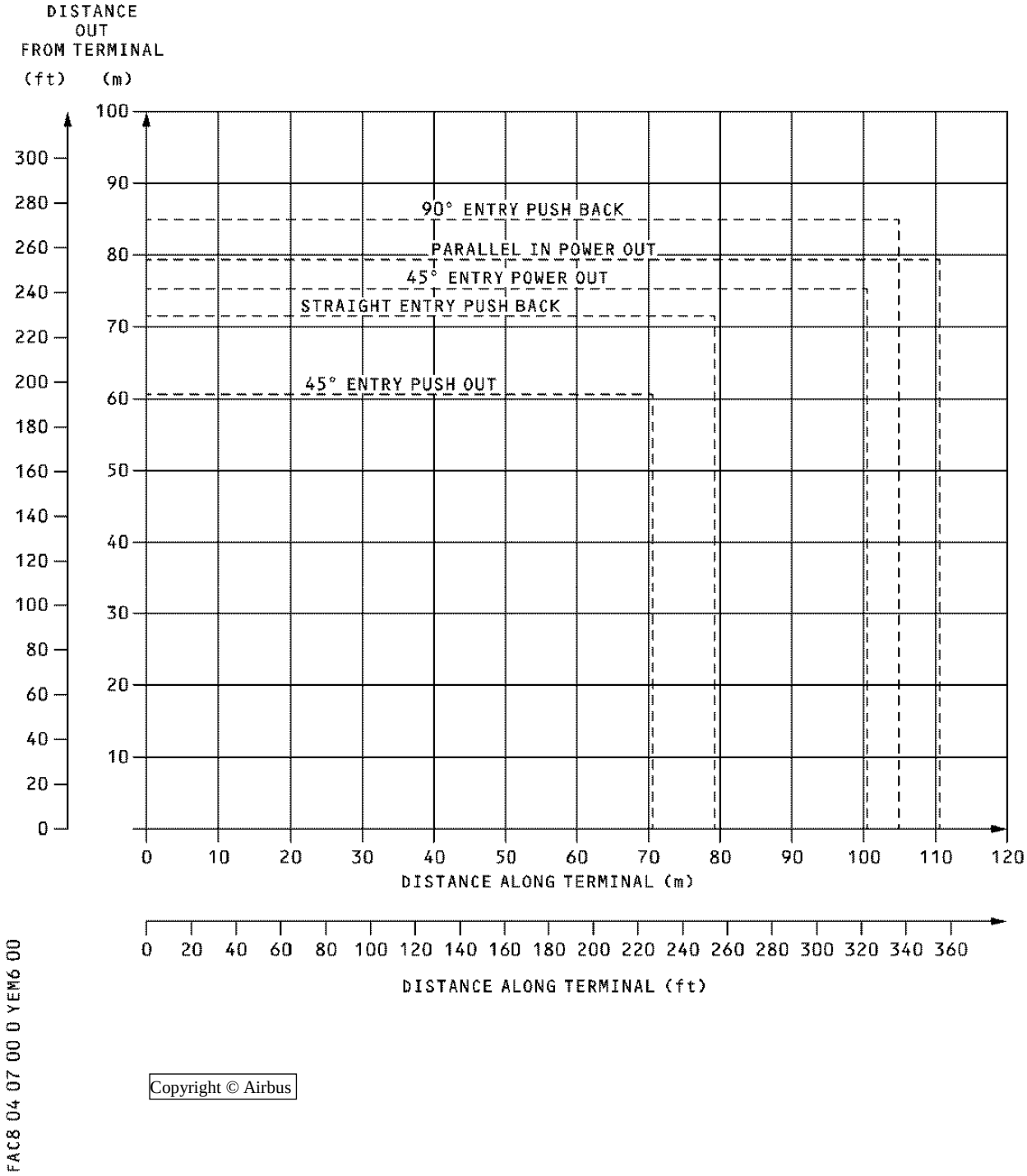
NOTE : TYPE OF TURN :
2-SYMMETRIC THRUST - NO BRAKING

DIMENSIONS IN METERS (FEET IN BRACKETS)

FAC8 04 03 00 0 YAM6 00

4.4.3. Parking Footprint.

Figure 4.17. Parking Footprint A340-500.

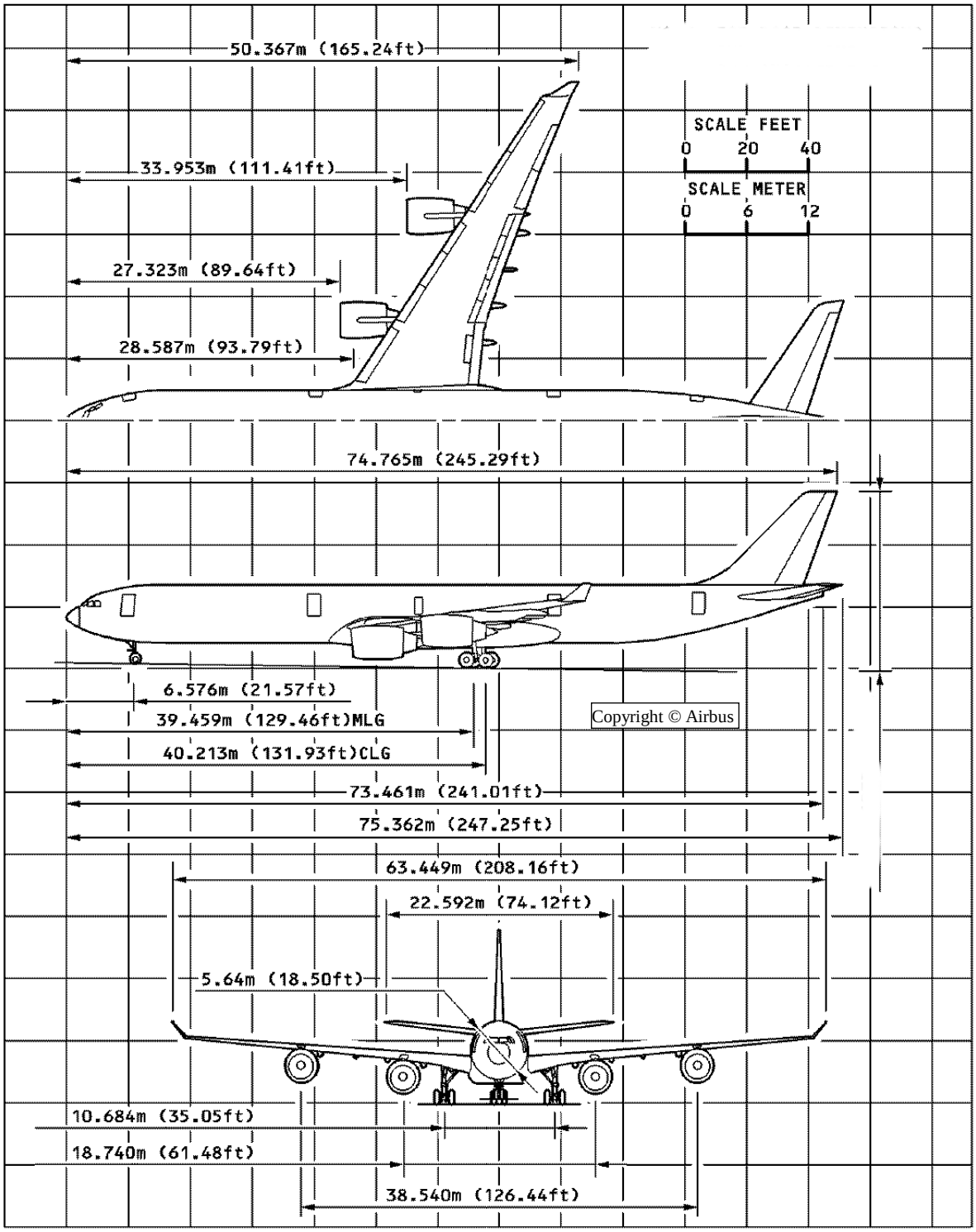


Chapter 5
A340-600

5.1. DIMENSIONS.

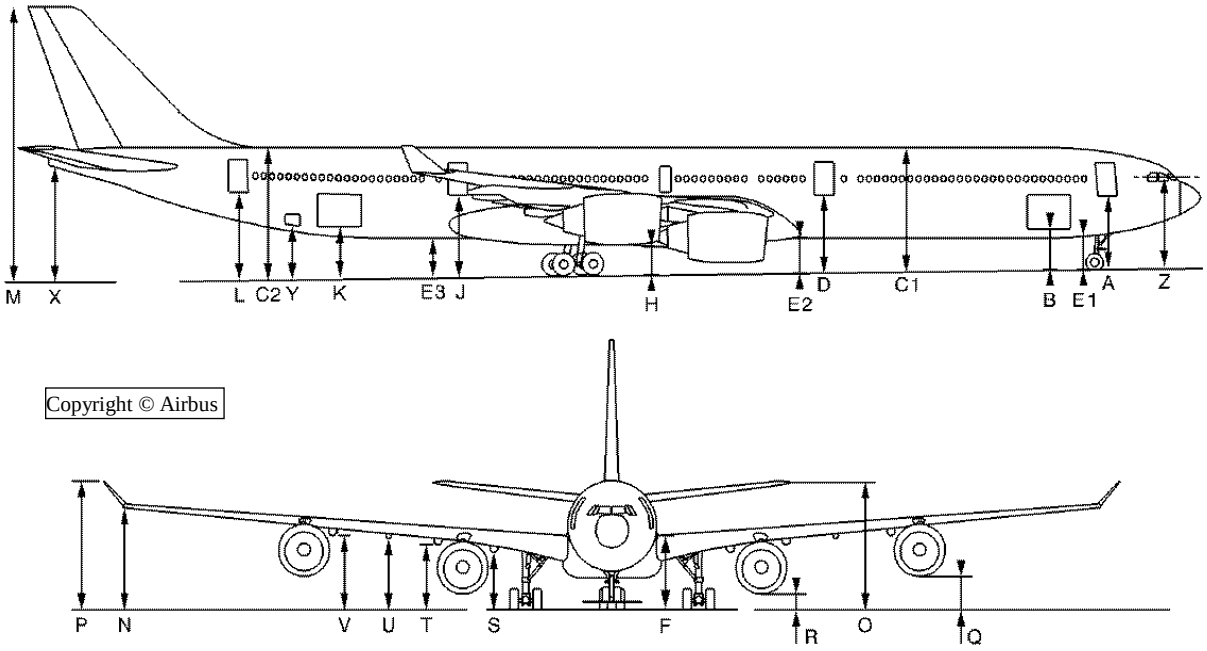
5.1.1. General Dimensions.

Figure 5.1. General Dimensions A340-600.



5.1.2. Ground Clearance.

Figure 5.2. Ground Clearance A340-600.



Vertical Clearances					
		OEW		**MTW**	**350t**
DOOR		**Mid CG**		**Fwd CG**	**CG 38%**
Pax/Crew	**A**	15.67'		15.08'	15.53'
FWD	**B**	9.46'		8.86'	9.27'
	C1	26.22'		25.61'	25.83'
	C2	27.77'		27.12'	26.86'
	D	16.41'		15.81'	16.03'
	E1	7.12'		6.53'	6.93'
	E2	7.71'		7.11'	7.33'
	E3	8.72'		8.09'	7.99'
	F	15.23'		14.61'	14.7'
	H	6.07'		5.46'	5.57'
	J	17.42'		16.79'	16.69'
AFT	**K**	11.49'		10.84'	10.66'
	L	18.68'		18.03'	17.77'
	M	58.84'		58.17'	57.74'
	N	20.18'		19.55'	19.46'
	O	28.21'		27.54'	27.1'
	P	25.45'		24.81'	24.7'
	Q	5.75'		5.12'	5.18'
	R	2.32'		1.71'	1.85'
	S	12.6'		11.97'	11.97'
	T	14.16'		13.53'	13.54'
	U	14.3'		13.67'	13.69'
	V	15.65'		15.01'	14.97'
	X	23.78'		23.11'	22.71'
BULK	**Y**	11.79'		11.14'	10.92'
	Z	19.35'		18.77'	19.27'

5.2. COMPARTMENT CONFIGURATIONS.

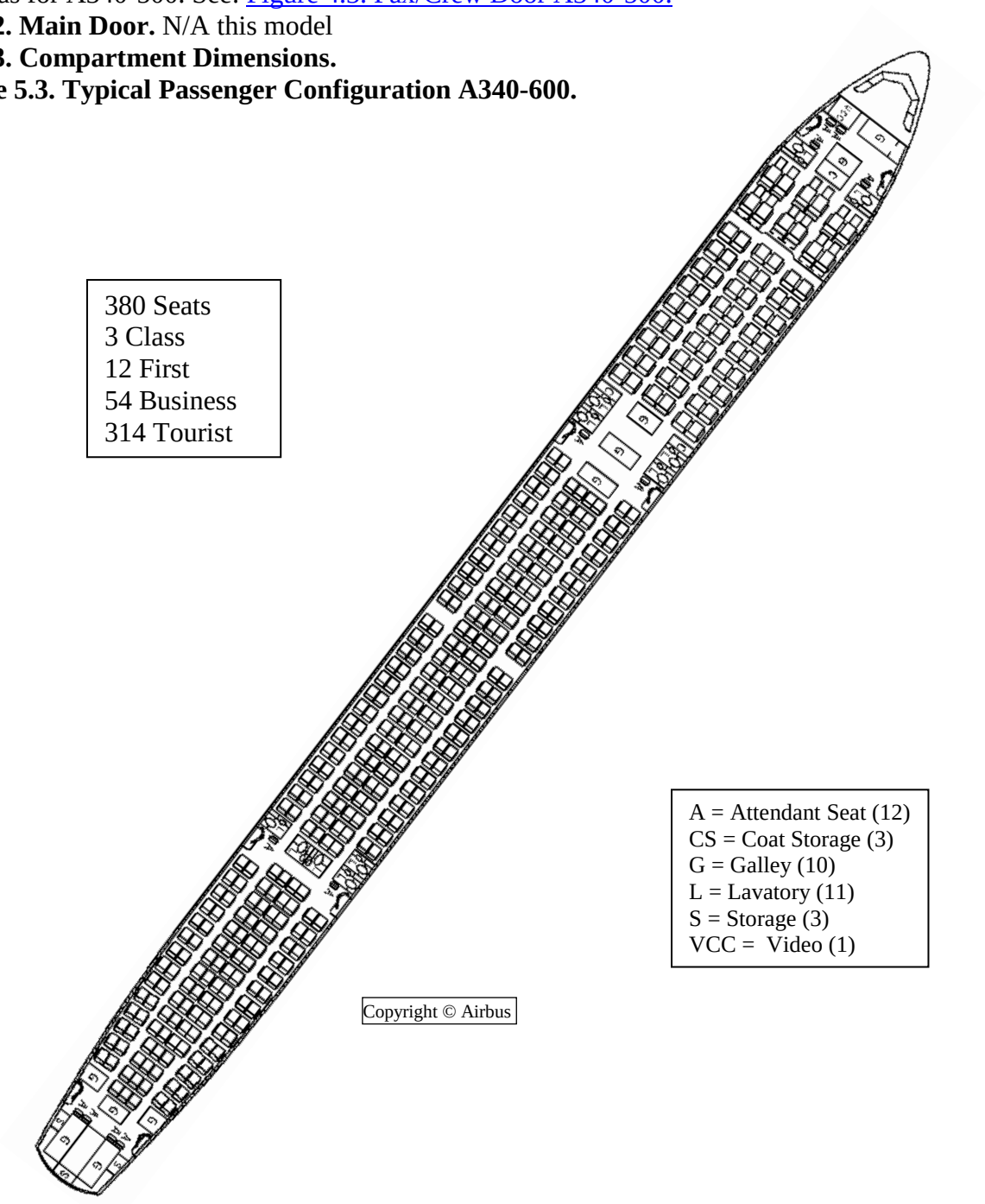
5.2.1. MAIN/PASSENGER COMPARTMENT.

5.2.1.1. Pax/Crew Door.
Same as for A340-500. See: Figure 4.3. Pax/Crew Door A340-500.

5.2.1.2. Main Door. N/A this model

5.2.1.3. Compartment Dimensions.

Figure 5.3. Typical Passenger Configuration A340-600.



5.2.1.4. Pallets.
N/A this model

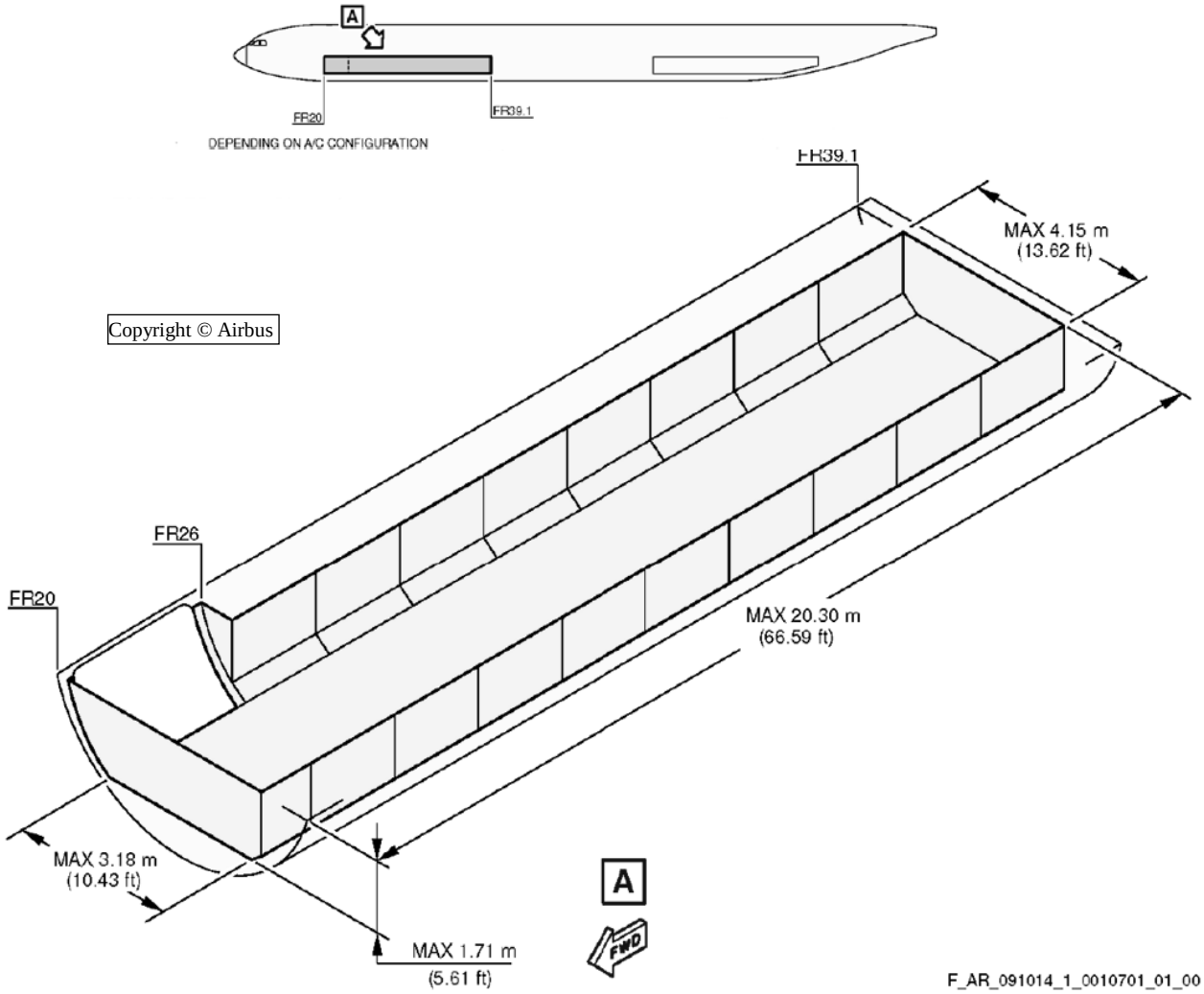
5.2.2. FORWARD COMPARTMENT.

5.2.2.1. Door.

Same as for A340-500. See: Figure 4.5. Forward Compartment Door A340-500.

5.2.2.2. Compartment Dimensions.

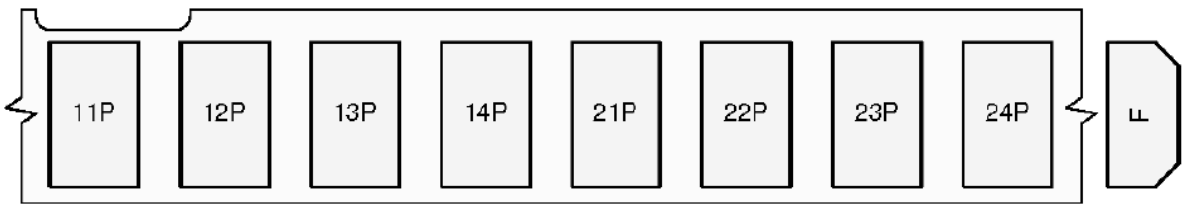
Figure 5.4. Forward Compartment Dimensions A340-600.



5.2.2.3. Pallets.

NOTE: See Attachment 1 for contour guide for the build-up of cargo.

Figure 5.5. Forward Compartment Cargo Configurations A340-600.



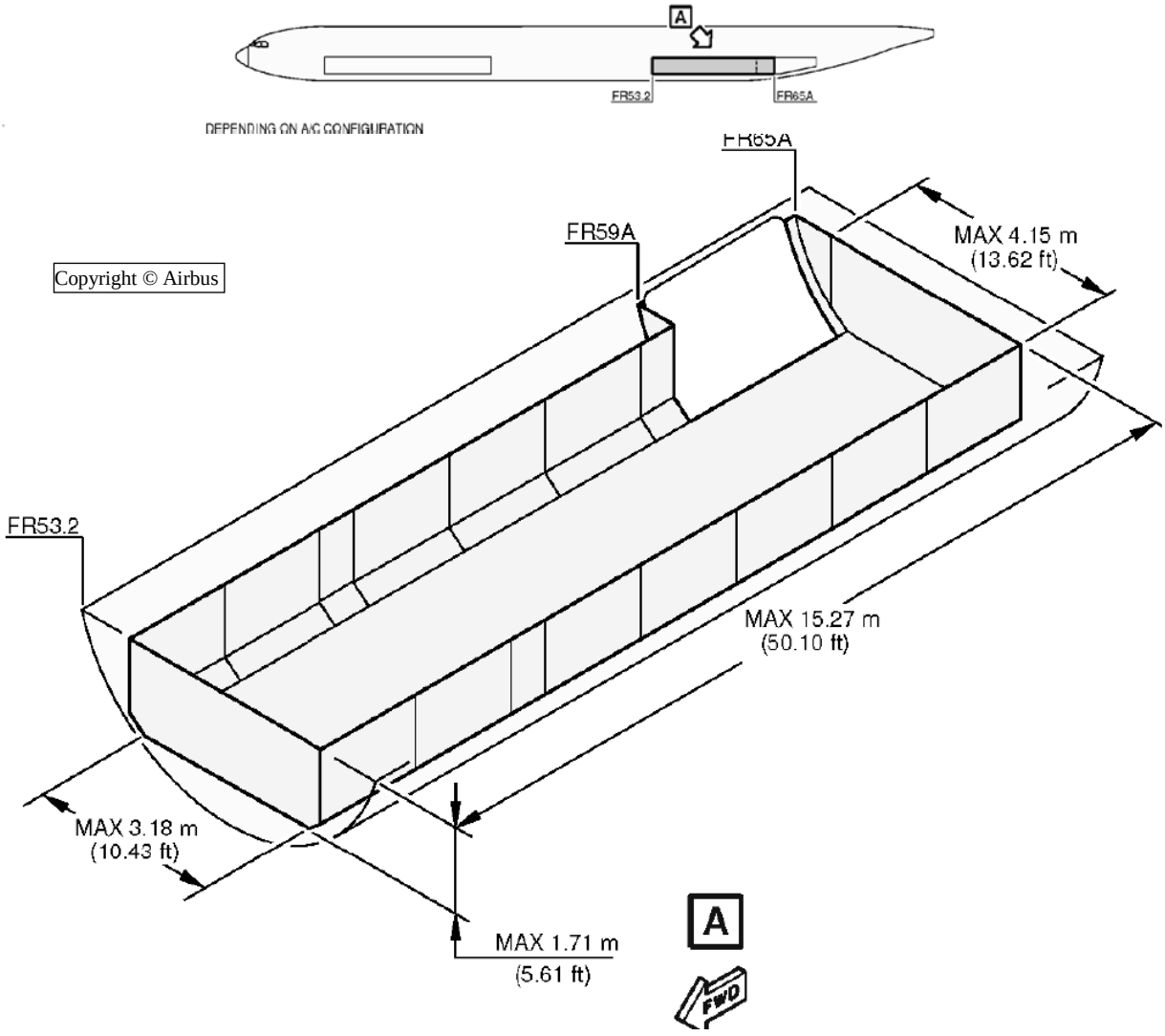
5.2.3. AFT COMPARTMENT.

5.2.3.1. Door.

Same as for A340-500. See: Figure 4.8. Aft Compartment Door A340-500.

5.2.3.2. Compartment Dimensions.

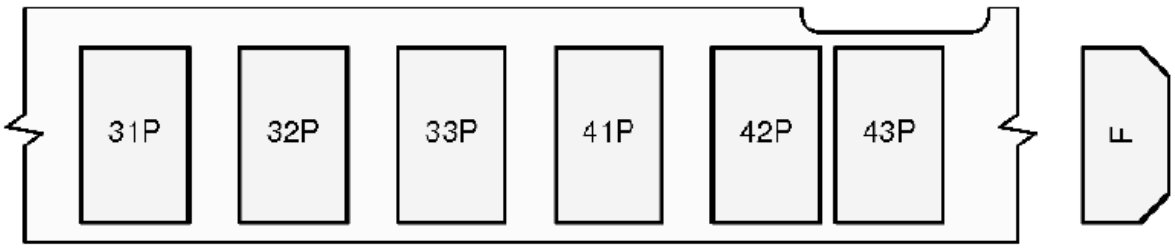
Figure 5.6. Aft Compartment Dimensions A340-600.



5.2.3.3. Pallets.

NOTE: See Attachment 1 for contour guide for the build-up of cargo.

Figure 5.7. Aft Compartment Cargo Configurations A340-600.



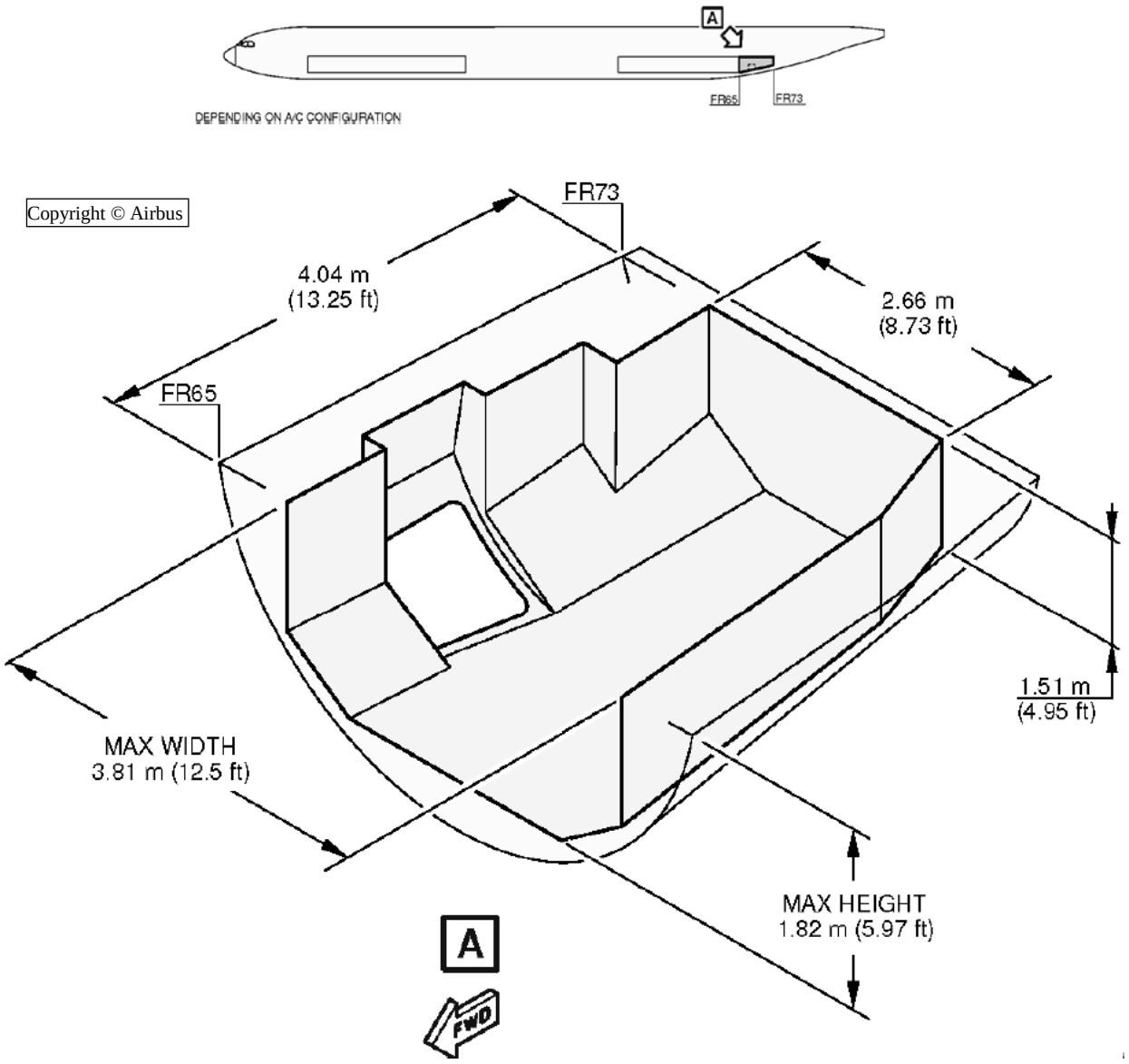
5.2.4. BULK COMPARTMENT.

5.2.4.1. Door.

Same as for A340-500. See: Figure 4.11. Bulk Compartment Door A340-500.

5.2.4.2. Compartment Dimensions.

Figure 5.8. Bulk Compartment Dimensions A340-600.



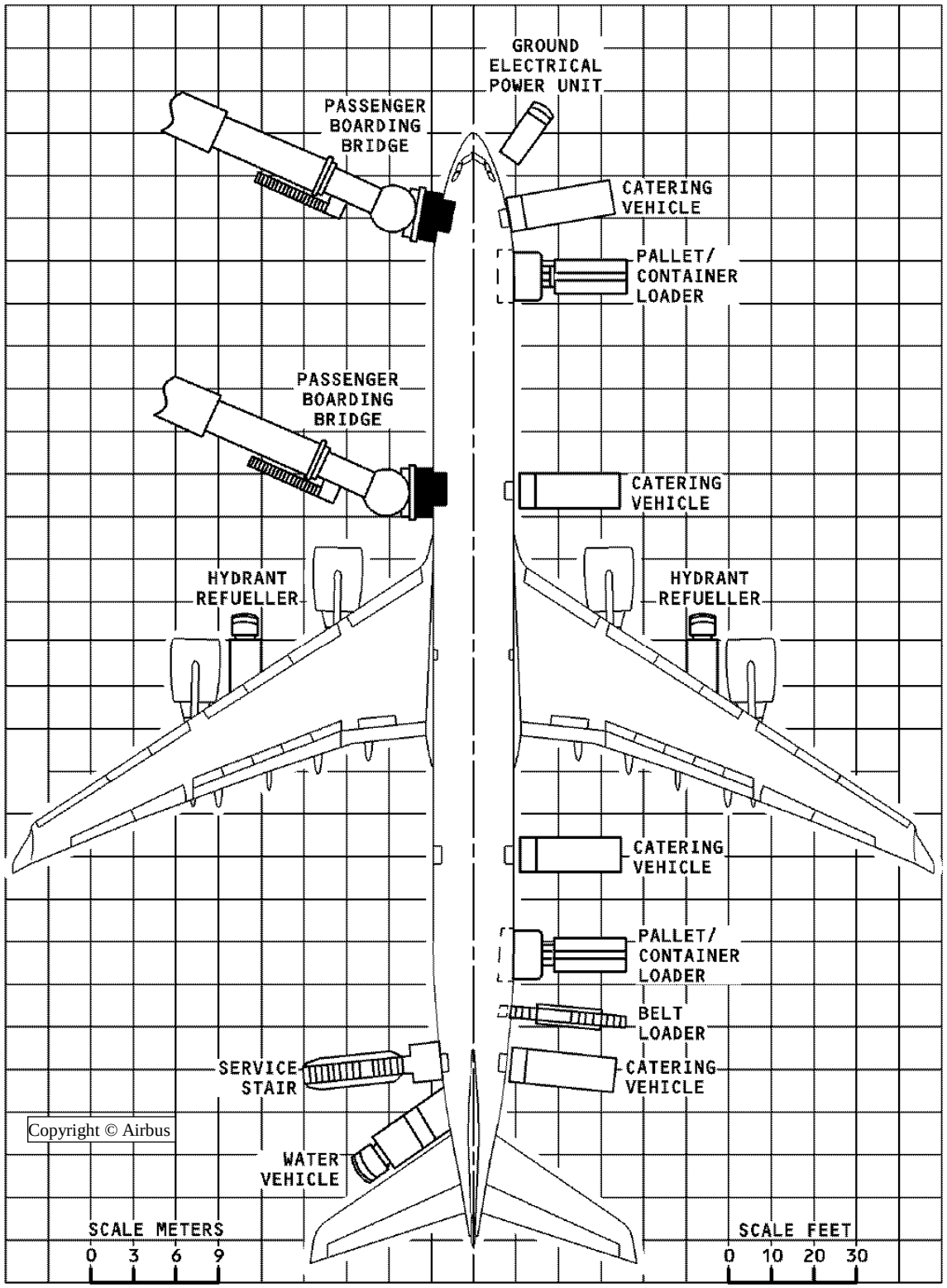
5.2.4.3. Pallets.

88" x 125" pallets cannot be loaded in this compartment.

5.3. SERVICING DIAGRAMS.

5.3.1. Servicing.

Figure 5.9. Typical Servicing Arrangement A340-600.

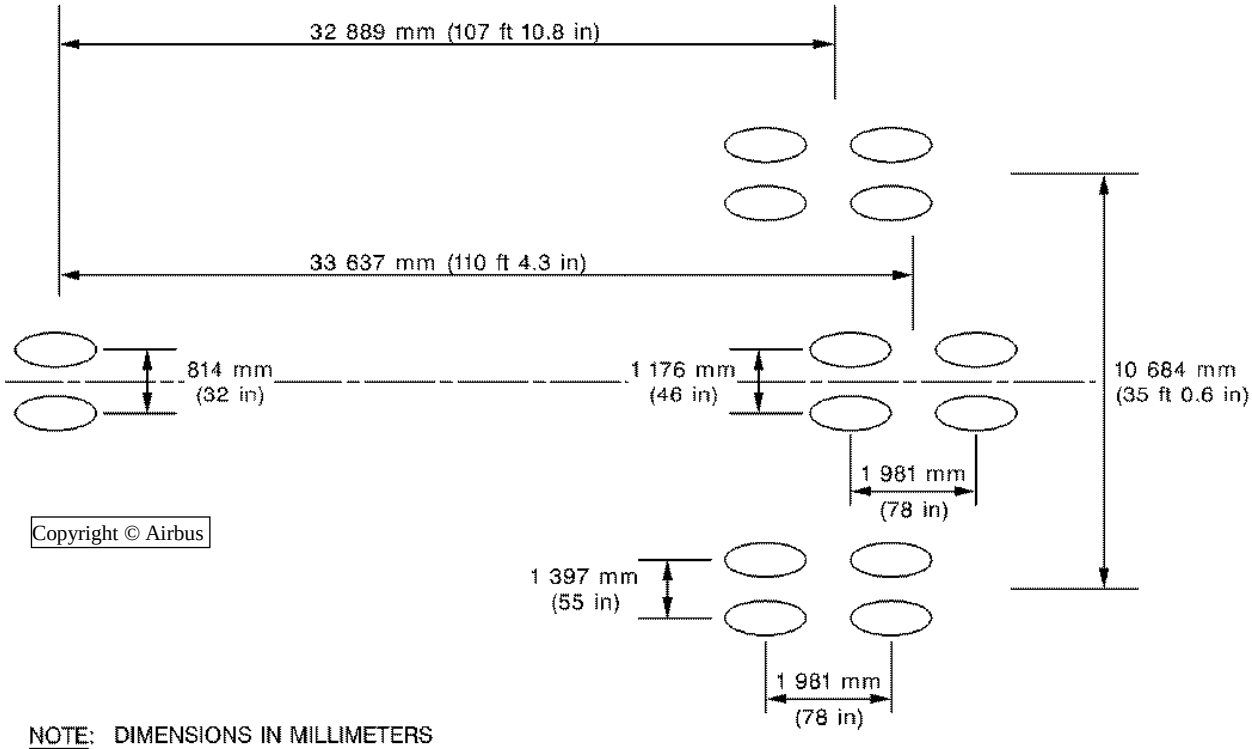


5.3.2. Ground Connections.
Same as for A340-500. See: Figure 4.14. Ground Service Connections A340-500.

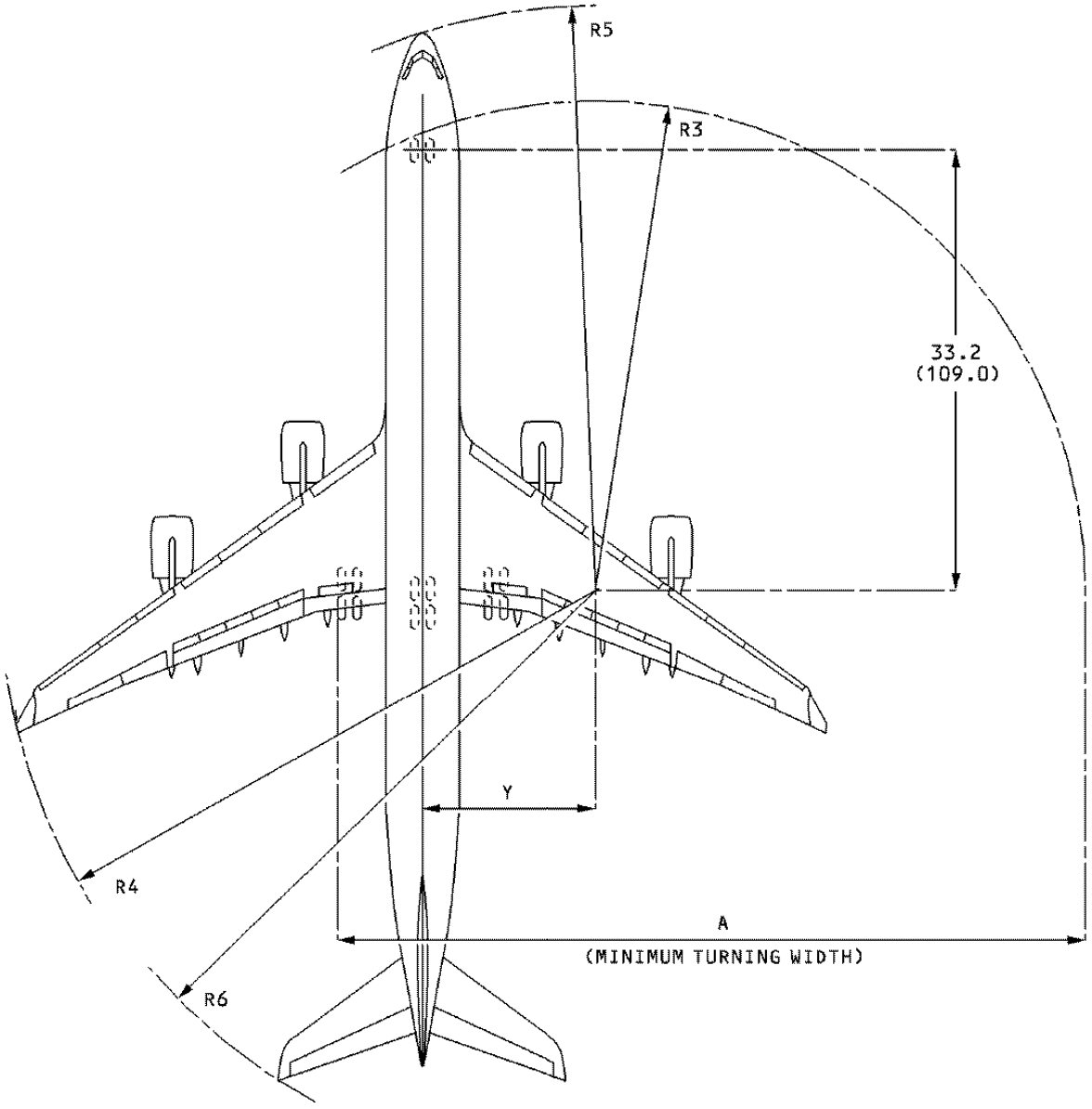
5.4. AIRFIELD SUITABILITY.

5.4.1. Landing Gear Footprint.
Figure 5.10. Landing Gear Footprint A340-600.

Max Ramp Wt.	366,200 kg (807,330lb)	369,200 kg (813,950lb)	381,200 kg (840,400lb)
Nose Gear Tire Size	45 x 18 R17 36PR		
Nose Gear Tire Press.	13.7 bar (199psi)		13.9 bar (201psi)
Wing Gear Tire Size	1400x530R23 40PR		
Wing Gear Tire Press.	16.1 bar (234psi)		
Center Gear Tire Size	1400x530R23 40PR		
Center Gear Tire Press.	15.0 bar (218psi)		16.1 bar (234psi)



5.4.2. Minimum Turning Radii.
Figure 5.11. Minimum Turning Radii A340-600.



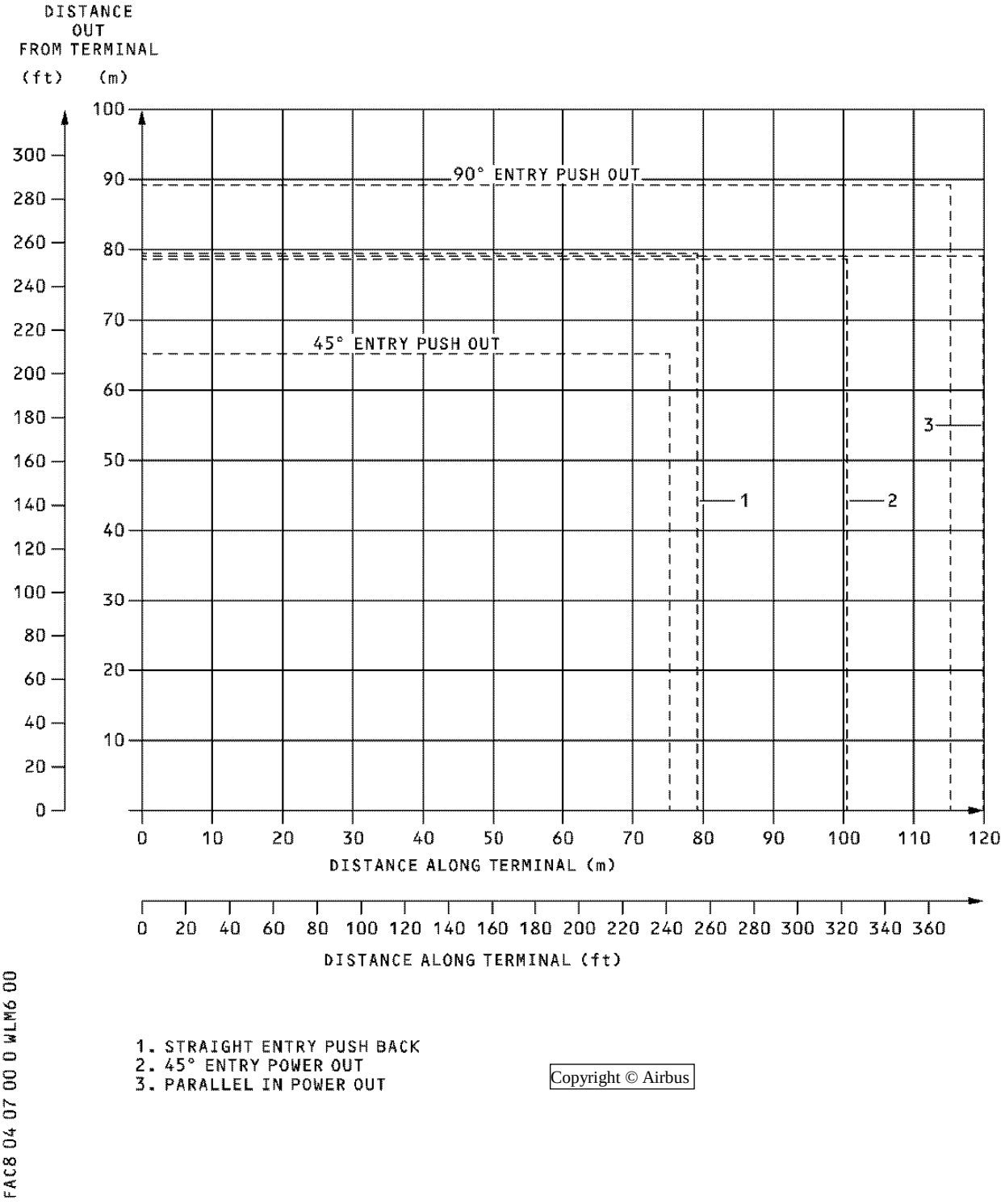
FAC8 04 03 00 0 WCM6 00

TYPE OF TURN	EFFECTIVE TURN ANGLE	Y	A	R3	R4	R5	R6
2	67.4°	13.7 (45.1)	56.7 (185.9)	36.6 (120.0)	46.8 (153.4)	42.1 (138.2)	43.6 (143.1)

NOTE : TYPE OF TURN :
2-SYMMETRIC THRUST - NO BRAKING
DIMENSIONS IN METERS (FEET IN BRACKETS)

5.4.3. Parking Footprint.

Figure 5.12. Parking Footprint A340-600.



FREDERICK H. MARTIN, Brig Gen, USAF
Director of Operations

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

Department of Defense / Unified Combatant Commands
DTR 4500.9-R, *Defense Transportation Regulation – Part III Mobility*
Appendix J *– Hazardous Materials (HAZMAT) Certification and Mobility Procedures*
Appendix K *– Hazardous Materials (HAZMAT) Special Permits (SP)*
Appendix V*– Aircraft Load Planning and Documentation*
Appendix BB*– Procedures for Transporting Weapons, Ammunition and Hazardous Materials (HAZMAT) Aboard Commercial Aircraft in Scheduled Service and Department of Defense (DOD) – Owned or Controlled Aircraft*
DD Form 2130-5, DC 10-10/*30CF Load Plan*
DD Form 2130-8, *DC 8-50 Series F/CF Load Plan*
DD Form 2130-9, *DC 8-61/71-63/73F/CF Load Plan*
DD Form 2130-10, *DC 8-62CF Load Plan*
DD Form 2130-11, *B707-300C Load Plan*
DD Form 2130-12, *B747-100F/200C/200F Load Plan*
DD Form 2130C, *Aircraft Load Plan Continuation*
JP 3-17, *Joint Doctrine and Joint Tactics, Techniques, and Procedures for Air Mobility Operations*

Air Force
AFDD 2-6, *Air Mobility Operations*
AFMAN24-204(I), *Preparing Hazardous Materials for Military Air Shipments*
AFPAM 10-1403, *Air Mobility Planning Factors*

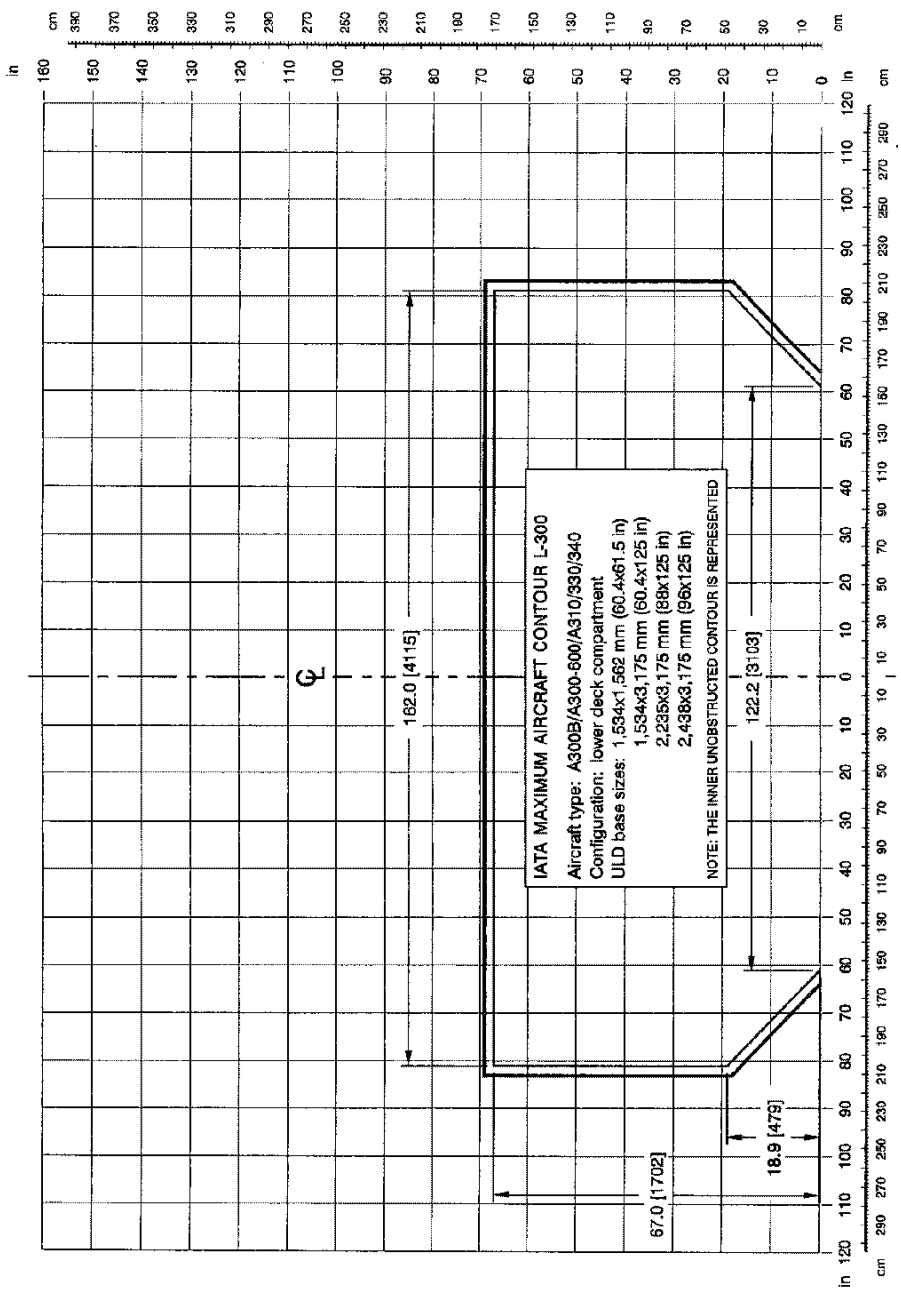
Air Mobility Command
AMCI 10-202V4, CL-1, *Expeditionary Air Mobility Support Operations – Checklist*
AMCI 10-402, *Civil Reserve Air Fleet (CRAF)*
AMCI 24-201, *Commercial Airlift Management – Civil Air Carriers* ***(NOTE: Potential change)***
AMC Affiliation Workbook 36-101 Volume I, *Equipment Preparation Course*
AMC Affiliation Workbook 36-101 Volume II, *Airlift Planner's Course*

Other Agencies
ATTLA, MIL-HDBK-1791, *Designing for Internal Aerial Delivery in Fixed Wing Aircraft*
IATA, *ULD Technical Manual (ULD)*
Airbus, *198 Van Buren Street Suite 300 Herndon, VA 20170*
Boeing, *P. O. Box 3707 Seattle, Washington 98124*

Attachment 2

LOWER COMPARTMENT CONTOUR CHART A340

Figure A2.1. Lower Compartment Contour Chart A340



Notes:

1) Shows inside dimensions where cargo compartment has a constant cross-section (internal contour measured perpendicular to the aircraft length - excludes any tapered section of the fuselage).
2) Minimum **2 inches of clearance** must exist between aircraft contour and maximum payload contour (represented by inner solid line of the contour drawing).
3) All horizontal dimensions are measured left or right of aircraft centerline (CL).
4) All vertical dimensions are measured from the top of the conveyor plane.
5) Reference number of **L300** for this contour assigned by IATA for easy identification.
6) The specifications of airframe manufacturer and/or carrier will **ALWAYS** take precedence over this chart.