



A319

AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

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HIGHLIGHTS**Revision No. 10 - May 01/11**

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FIGURE Landing Gear Footprint - Landing Gear Footprint	R	ILLUSTRATION REVISED
FIGURE Landing Gear Footprint - Landing Gear Footprint	R	ILLUSTRATION REVISED
FIGURE Landing Gear Footprint - Landing Gear Footprint	N	NEW ILLUSTRATION ADDED ILLUSTRATION ADDED
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FIGURE Maximum Pavement Loads - Maximum Pavement Loads	N	ILLUSTRATION ADDED
FIGURE Maximum Pavement Loads - Maximum Pavement Loads	N	ILLUSTRATION ADDED
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LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Maximum Pavement Loads - Maximum Pavement Loads	N	ILLUSTRATION ADDED
FIGURE Maximum Pavement Loads - Maximum Pavement Loads	N	ILLUSTRATION ADDED
FIGURE Maximum Pavement Loads - Maximum Pavement Loads	N	ILLUSTRATION ADDED
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FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
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FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
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FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
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LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
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FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
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FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
FIGURE Landing Gear Loading on Pavement - Landing Gear Loading on Pavement	N	ILLUSTRATION ADDED
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Flexible Pavement Requirements - U.S. Army Corps of Engineers Design Method	R	NOTE AMENDED CROSS REFERENCED DOCUMENTARY UNIT ADDED/REVISED/DELETED
FIGURE Flexible Pavement Requirements - Flexible Pavement Requirements	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - Flexible Pavement Requirements	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Flexible Pavement Requirements - Flexible Pavement Requirements	N	ILLUSTRATION ADDED
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FIGURE Flexible Pavement Requirements - Flexible Pavement Requirements	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - Flexible Pavement Requirements	N	ILLUSTRATION ADDED
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FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Flexible Pavement Requirements - LCN Conversion - Flexible Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED

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Subject 7-7-1 Rigid Pavement Requirements - Portland Cement Association Design Method	R	NOTE AMENDED CROSS REFERENCED DOCUMENTARY UNIT ADDED/REVISED/DELETED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
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FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
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FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements (PCA) - Rigid Pavement Requirements (PCA)	N	ILLUSTRATION ADDED
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FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
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FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED
FIGURE Rigid Pavement Requirements - LCN Conversion - Rigid Pavement Requirements - LCN Conversion	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
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Section 7-9 Subject 7-9-0 ACN/PCN Reporting System	R	
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FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Flexible Pavement - Aircraft Classification Number – Flexible Pavement	N	ILLUSTRATION ADDED
Subject 7-9-2		
Aircraft Classification Number - Rigid Pavement	R	NOTE AMENDED CROSS REFERENCED DOCUMENTARY UNIT ADDED/REVISED/DELETED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED

LOCATIONS	CHG CODE	DESCRIPTIONS OF CHANGE
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED
FIGURE Aircraft Classification Number – Rigid Pavement - Aircraft Classification Number – Rigid Pavement	N	ILLUSTRATION ADDED

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SCOPE**1-1-0 Purpose******ON A/C A319-100**Purpose**1. General**

The A319 AIRPLANE CHARACTERISTICS (AC) manual is issued for the A319 basic versions to provide the necessary data needed by airport operators and airlines for the planning of airport facilities.

This document conforms to NAS 3601.

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1-2-0 Introduction****ON A/C A319-100**Introduction**1. General**

This manual comprises 9 chapters with a List of Effective Pages (LEP) at the beginning of the manual and a Table Of Content (TOC) at the beginning of each chapter.

Chapter 1: SCOPE**Chapter 2: AIRPLANE DESCRIPTION**

This chapter contains general dimensional and other basic aircraft data.

It covers:

- aircraft dimensions and ground clearances,
- passenger and cargo compartment arrangement.

Chapter 3: AIRPLANE PERFORMANCE

This chapter indicates the aircraft performance.

It covers:

- payload range,
- takeoff and landing runway requirements,
- landing approach speed.

Chapter 4: GROUND MANEUVERING

This chapter provides the aircraft turning capability and maneuvering characteristics on the ground.

It includes:

- turning radii and visibility from the cockpit,
- runway and taxiway turn path.

Chapter 5: TERMINAL SERVICING

This chapter provides information for the arrangement of ground handling and servicing equipments.

It covers:

- location and connections of ground servicing equipments,

- engine starting pneumatic and preconditioned airflow requirements.

Chapter 6: OPERATING CONDITIONS

This chapter contains data and safety/environmental precautions related to engine and APU operation on the ground.

It covers:

- contour size and shape of the jet engine exhaust velocities and temperature,
- noise data.

Chapter 7: PAVEMENT DATA

This chapter contains the pavement data helpful for airport planning.

It gives:

- landing gear foot print and static load,
- charts for flexible pavements with Load Classification Number (LCN),
- charts for rigid pavements with LCN,
- Aircraft Classification Number (ACN), Pavement Classification Number (PCN), reporting system for flexible and rigid pavements.

Chapter 8: DERIVATIVE AIRPLANES

This chapter gives relevant data of possible A319 new version with the associated size change.

Chapter 9: SCALED DRAWING

This chapter contains different A319 scaled drawings.

AIRPLANE DESCRIPTION

2-1-0 General Airplane Characteristics

****ON A/C A319-100**General Airplane Characteristics

1. General Airplane Characteristics

The weight terms used throughout this manual are given below together with their respective definitions.

Maximum Taxi Weight (MTW):

Maximum weight for ground maneuver as limited by aircraft strength and airworthiness requirements. (It includes weight of run-up and taxi fuel). It is also called Maximum Ramp Weight (MRW).

Maximum Landing Weight (MLW):

Maximum weight for landing as limited by aircraft strength and airworthiness requirements.

Maximum Takeoff Weight (MTOW):

Maximum weight for takeoff as limited by aircraft strength and airworthiness requirements. (This is the maximum weight at start of the takeoff run).

Maximum Zero Fuel Weight (MZFW):

Maximum operational weight of the aircraft without usable fuel.

Operational Empty Weight (OEW):

Weight of structure, powerplant, furnishings, systems, and other items of equipment that are an integral part of a particular aircraft configuration plus the operator's items. The operator's items are the flight and cabin crew and their baggage, unusable fuel, engine oil, emergency equipment, toilet chemical and fluids, galley structure, catering equipment, passenger seats and life vests, documents, etc.

Maximum Payload:

Maximum Zero Fuel Weight (MZFW) minus Operational Empty Weight (OEW).

Maximum Seating Capacity:

Maximum number of passengers specifically certified or anticipated for certification.

Maximum Cargo Volume:

Maximum usable volume available for cargo.

Usable Fuel:

Fuel available for aircraft propulsion.

2-1-1 General Airplane Characteristics Data

****ON A/C A319-100**

General Airplane Characteristics Data

- The following table provides characteristics of A319-100 Models, these data are specific to each Weight Variant:

Aircraft Characteristics						
		WV000	WV001	WV002	WV003	WV004
Maximum Ramp Weight (MRW)	Kilograms	64 400	70 400	75 900	68 400	68 400
	Pounds					
Maximum Taxi Weight (MTW)	Kilograms	141 978	155 205	167 331	150 796	150 796
	Pounds					
Maximum Takeoff Weight (MTOW)	Kilograms	64 000	70 000	75 500	68 000	68 000
	Pounds	141 096	154 324	166 449	149 914	149 914
Maximum Landing Weight (MLW)	Kilograms	61 000	61 000	62 500	61 000	62 500
	Pounds	134 482	134 482	137 789	134 482	137 789
Maximum Zero Fuel Weight (MZFW)	Kilograms	57 000	57 000	58 500	57 000	58 500
	Pounds	125 663	125 663	128 970	125 663	128 970
Estimated Operational Empty Weight (OEW)	CFM Engines	39 725 kg (87 579 lb)				
	IAE Engines	39 826 kg (87 801 lb)				
Estimated Maximum Payload CFM 56	Kilograms	17 275		18 775	17 275	18 775
	Pounds	38 085		41 392	38 085	41 392
Estimated Maximum Payload IAE V2500	Kilograms	17 174		18 674	17 174	18 674
	Pounds	37 862		41 169	37 862	41 169

Aircraft Characteristics						
		WV005	WV006	WV007	WV008	WV009
Maximum Ramp Weight (MRW)	Kilograms	70 400	73 900	75 900	64 400	66 400
	Pounds					
Maximum Taxi Weight (MTW)	Kilograms	155 205	162 922	167 331	141 978	146 387
	Pounds					
Maximum Takeoff Weight (MTOW)	Kilograms	70 000	73 500	75 500	64 000	66 000
	Pounds	154 324	162 040	166 449	141 096	145 505
Maximum Landing Weight (MLW)	Kilograms	62 500	62 500	61 000	62 500	62 500
	Pounds	137 789	137 789	134 482	137 789	137 789
Maximum Zero Fuel Weight (MZFW)	Kilograms	58 500	58 500	57 000	58 500	58 500
	Pounds	128 970	128 970	125 663	128 970	128 970
Estimated Operational Empty Weight (OEW)	CFM Engines	39 725 kg (87 579 lb)				
	IAE Engines	39 826 kg (87 801 lb)				

Aircraft Characteristics					
		WV005	WV006	WV007	WV008
Estimated Maximum Payload CFM 56	Kilograms	18 775		17 275	18 775
	Pounds	41 392		38 085	41 392
Estimated Maximum Payload IAE V2500	Kilograms	18 674		17 174	18 674
	Pounds	41 169		37 862	41 169

Aircraft Characteristics			
		WV011	WV012
Maximum Ramp Weight (MRW)	Kilograms	66 400	62 400
Maximum Taxi Weight (MTW)	Pounds	146 387	137 568
Maximum Takeoff Weight (MTOW)	Kilograms	66 000	62 000
	Pounds	145 505	136 686
Maximum Landing Weight (MLW)	Kilograms	61 000	61 000
	Pounds	134 482	134 482
Maximum Zero Fuel Weight (MZFW)	Kilograms	57 000	57 000
	Pounds	125 663	125 663
Estimated Operational Empty Weight (OEW)	CFM Engines	39 725 kg (87 579 lb)	
	IAE Engines	39 826 kg (87 801 lb)	
Estimated Maximum Payload CFM 56	Kilograms	17 275	
	Pounds	38 085	
Estimated Maximum Payload IAE V2500	Kilograms	17 174	
	Pounds	37 862	

2. The following table provides characteristics of A319-100 Models, these data are common to each Weight Variant:

Aircraft Characteristics		
Standard Seating Capacity	Single-class	156
Usable Fuel Capacity	Liters	23 859
	US gallons	6 303
	Kilograms (density = 0.785 kg/l)	18 729
	Pounds	41 290
Pressurized Fuselage Volume (A/C non equipped)	Cubic meters	285
	Cubic feet	10 065

Aircraft Characteristics		
Passenger Compartment Volume	Cubic meters	120
	Cubic feet	4 238
Cockpit Volume	Cubic meters	9
	Cubic feet	318
Usable Volume, FWD CC	Cubic meters	8.52
	Cubic feet	300
Usable Volume, AFT CC	Cubic meters	11.92
	Cubic feet	421
Usable Volume, Bulk CC	Cubic meters	7.22
	Cubic feet	255
Water Volume, FWD CC	Cubic meters	10.63
	Cubic feet	375.4
Water Volume, AFT CC	Cubic meters	13.91
	Cubic feet	491.2
Water Volume, Bulk CC	Cubic meters	7.51
	Cubic feet	265.2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

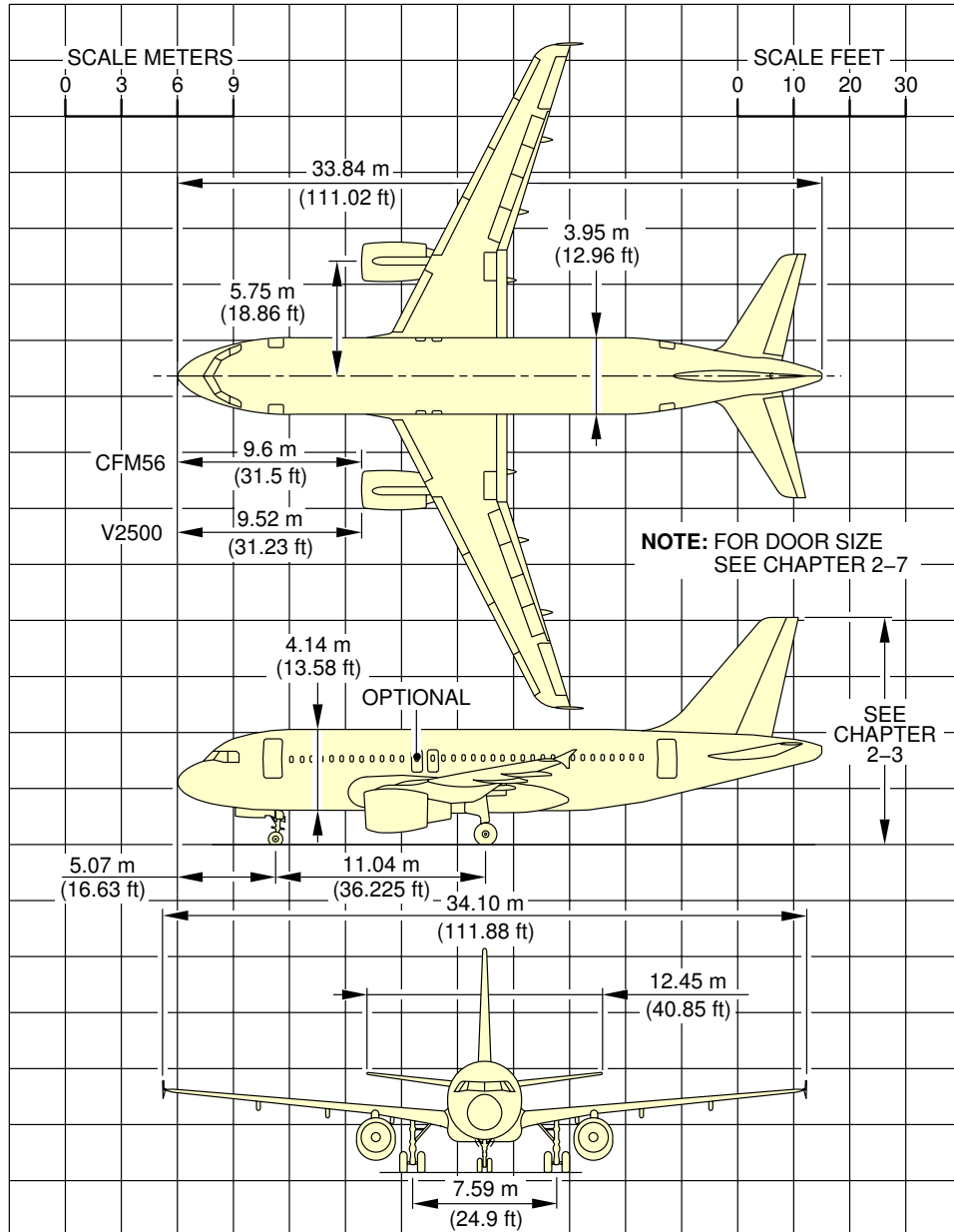
2-2-0 General Airplane Dimensions

****ON A/C A319-100**

General Airplane Dimensions

1. This section provides General Airplane Dimensions.

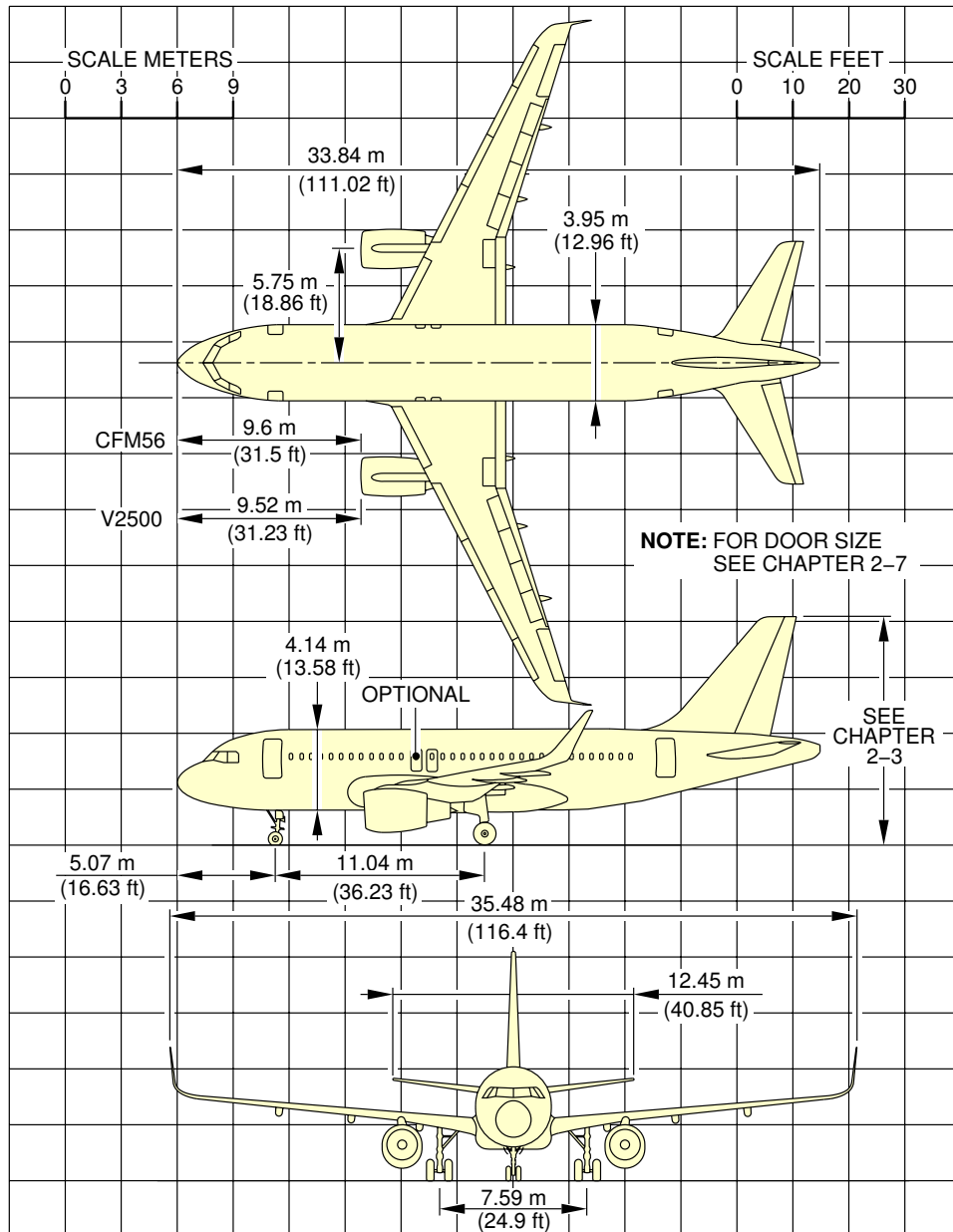
****ON A/C A319-100**



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General Airplane Dimensions
(Sheet 1 of 2)
FIGURE 1

****ON A/C A319-100**



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General Airplane Dimensions
Sharklet Option (Sheet 2 of 2)
FIGURE 2

2-3-0 Ground Clearances****ON A/C A319-100**Ground Clearances

1. This section gives the height of various points of the aircraft, above the ground, for different aircraft configurations.

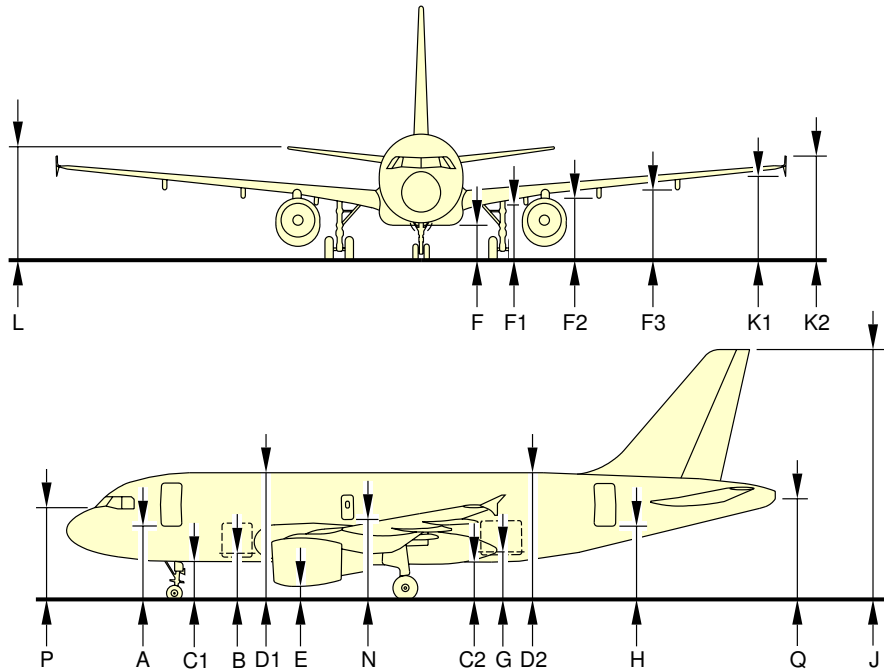
Dimensions in the tables are approximate and will vary with tire type, W&B and others special conditions.

The dimensions are given for:

- The basic aircraft OWE with a mid CG,
- the MRW for the lightest weight variant with a FWD CG and a AFT CG,
- the MRW for the heaviest weight variant with a FWD CG and a AFT CG,
- aircraft on jacks, FDL at 4.6m (15.09ft).

NOTE : Passenger and cargo door clearances are measured from the center of the door sill and from floor level.

****ON A/C A319-100**



	OWE 39 725 kg		MRW (WV0) 64 400 kg				MRW (WV8) 73 900 kg				AC JACKED FDL = 4.60 m	
	CG 28%		FWD CG 21%		AFT CG 36%		FWD CG 21%		AFT CG 36%			
	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft
A	3.47	11.38	3.39	11.12	3.45	11.32	3.38	11.09	3.43	11.25	4.13	13.55
B	2.09	6.86	2.01	6.59	2.05	6.73	1.99	6.53	2.03	6.66	2.71	8.89
C1	1.83	6.00	1.75	5.74	1.78	5.84	1.73	5.68	1.76	5.77	2.43	7.97
C2	1.94	6.36	1.87	6.14	1.84	6.04	1.84	6.04	1.81	5.94	2.43	7.97
D1	5.97	19.59	5.90	19.36	5.92	19.42	5.88	19.29	5.90	19.36	6.58	21.59
D2	6.09	19.98	6.02	19.75	5.98	19.62	5.99	19.65	5.95	19.52	6.58	21.59
E (CFM)	0.67	2.20	0.59	1.94	0.60	1.97	0.57	1.87	0.58	1.90	1.24	4.07
E (IAE)	0.85	2.79	0.78	2.56	0.78	2.56	0.76	2.49	0.76	2.49	1.42	4.66
F	1.73	5.68	1.66	5.45	1.64	5.38	1.63	5.35	1.62	5.31	2.26	7.41
F1	2.73	8.96	2.66	8.73	2.64	8.66	2.63	8.63	2.61	8.56	3.25	10.66
F2	3.16	10.37	3.09	10.14	3.07	10.07	3.06	10.04	3.04	9.97	3.68	12.07
F3	3.50	11.48	3.43	11.25	3.41	11.19	3.41	11.19	3.38	11.09	4.01	13.16
G	2.22	7.28	2.15	7.05	2.11	6.92	2.12	6.96	2.09	6.86	2.71	8.89
H	3.71	12.17	3.65	11.98	3.58	11.75	3.61	11.84	3.54	11.61	4.13	13.55
J	12.11	39.73	12.05	39.53	11.93	39.14	12.01	39.40	11.89	39.01	12.45	40.85
K1	3.90	12.80	3.84	12.60	3.79	12.43	3.81	12.50	3.77	12.37	4.38	14.37
K2	4.87	15.98	4.81	15.78	4.77	15.65	4.78	15.68	4.74	15.55	5.35	17.55
L	5.58	18.31	5.53	18.14	5.41	17.75	5.48	17.98	5.37	17.62	5.93	19.46
N	3.97	13.02	3.90	12.80	3.91	12.83	3.88	12.73	3.88	12.73	4.54	14.89
P	4.26	13.98	4.17	13.68	4.26	13.98	4.16	13.65	4.24	13.91	4.96	16.27
Q	4.87	15.98	4.82	15.81	4.69	15.39	4.78	15.68	4.65	15.26	5.20	17.06

NOTE: PASSENGER AND CARGO DOOR GROUND CLEARANCES ARE MEASURED FROM THE CENTER OF THE DOOR SILL AND FROM FLOOR LEVEL

N_AC_020300_1_0020101_01_03

Ground Clearances
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

2-4-0 Interior Arrangements

****ON A/C A319-100**

Interior Arrangements

1. This section gives the standard interior arrangements configuration.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

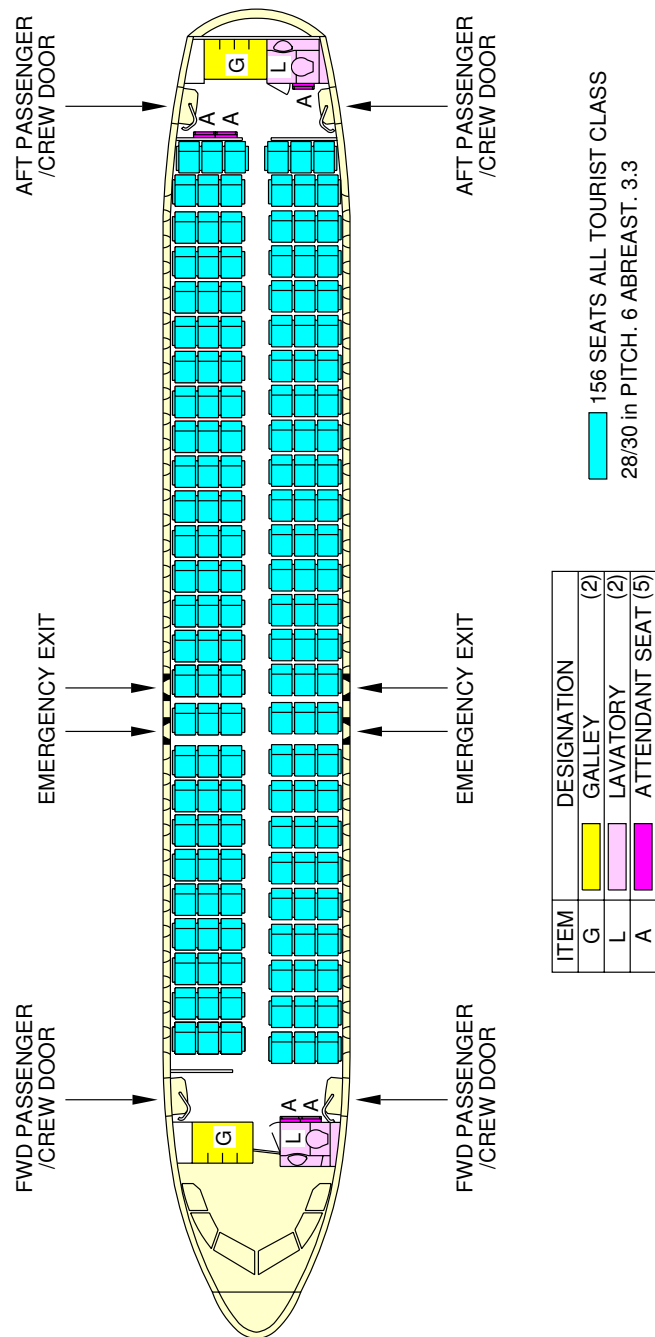
2-4-1 Passenger Compartment Layout

****ON A/C A319-100**

Typical Configuration

1. This section gives the typical interior configuration.

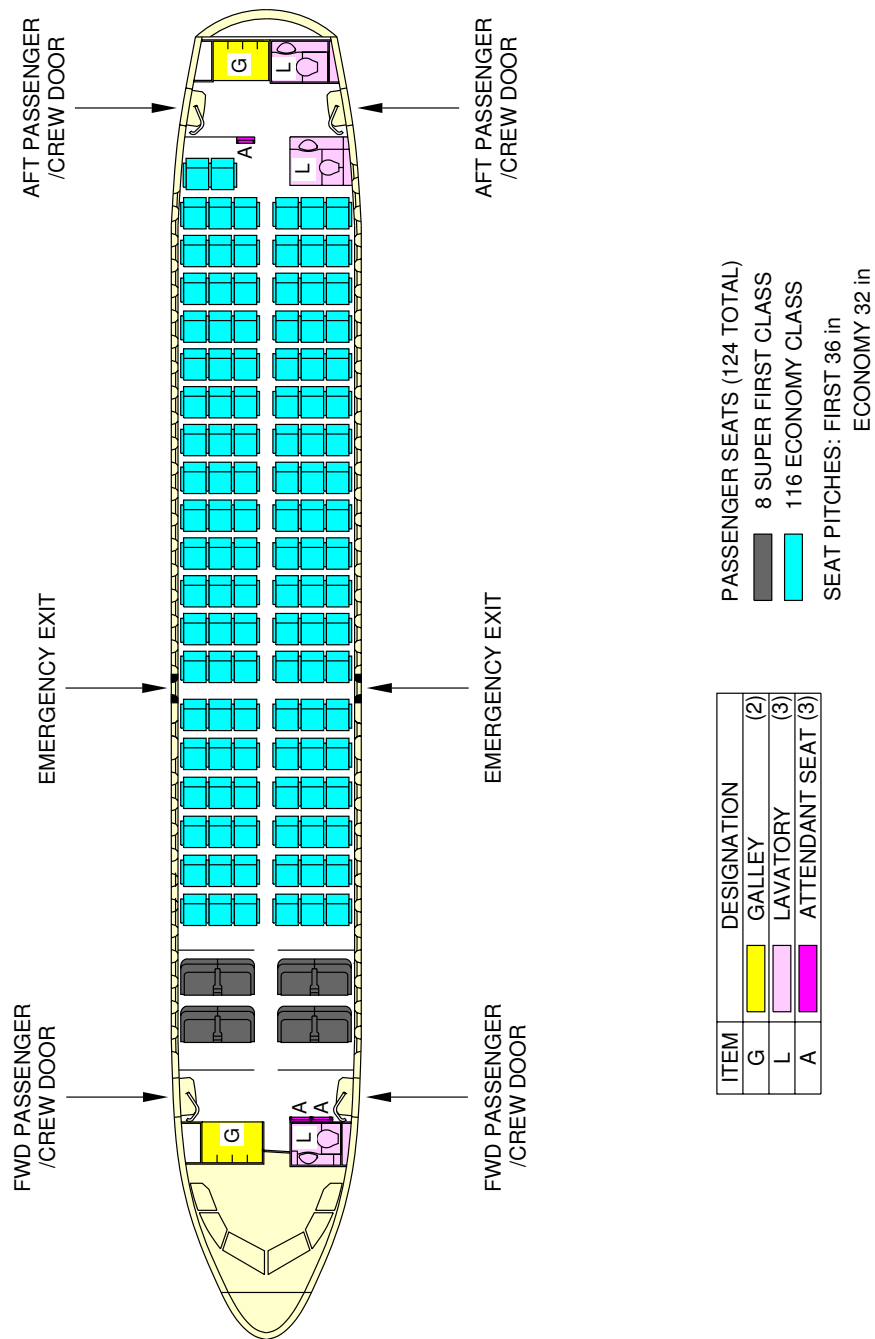
****ON A/C A319-100**



N_AC_020401_1_0020101_01_02

Typical Configuration
Typical Configuration Single-Class, High Density
FIGURE 1

****ON A/C A319-100**



N_AC_020401_1_0080101_01_00

Typical Configuration
Typical Configuration Two-Class
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

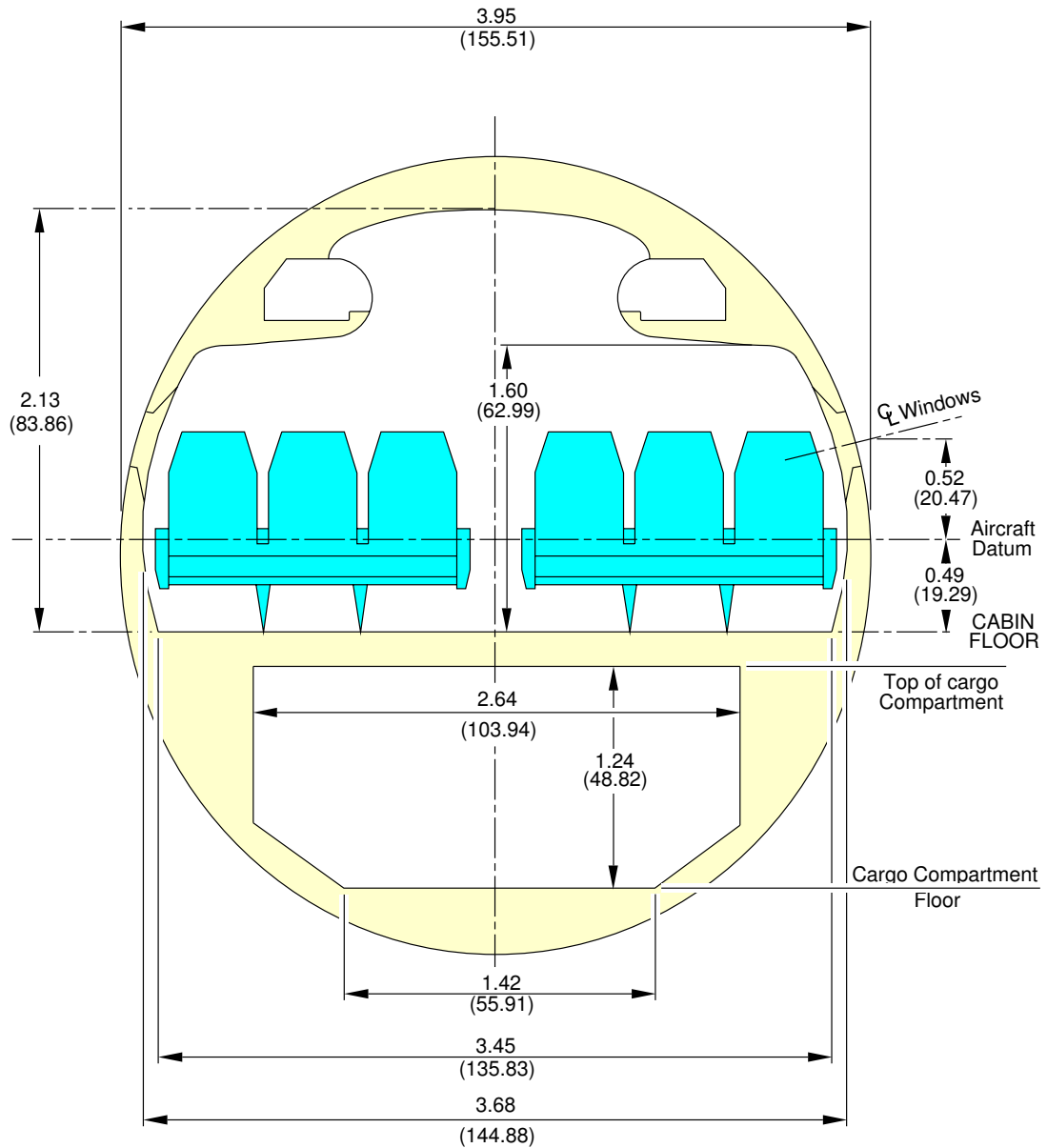
2-5-0 Passenger Compartment Cross Section

****ON A/C A319-100**

Passenger Compartment Cross-section

1. This section gives the typical passenger compartment cross-section configuration.

****ON A/C A319-100**

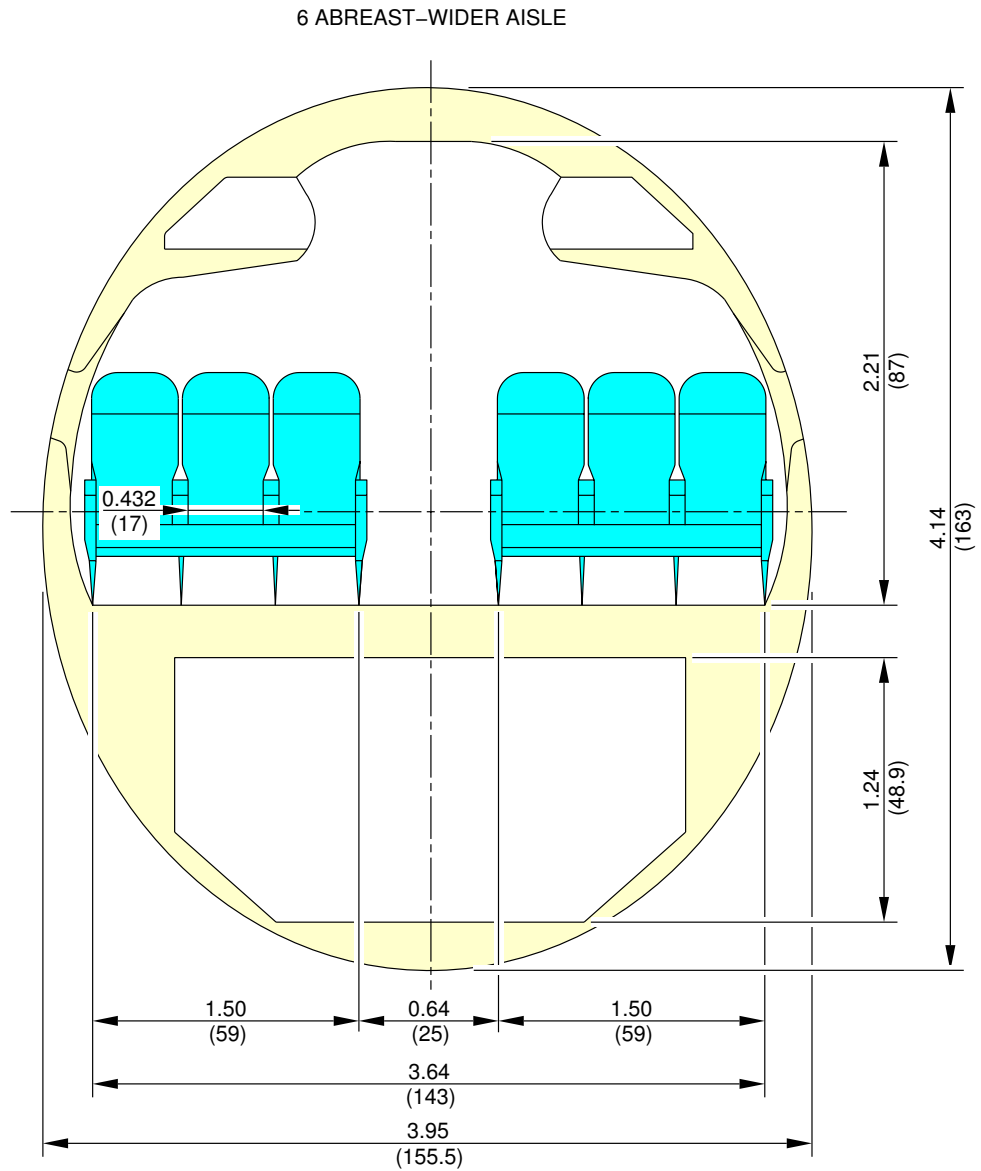


NOTE: DIMENSIONS m (in)

N_AC_020500_1_0010101_01_01

Passenger Compartment Cross-section
FIGURE 1

****ON A/C A319-100**

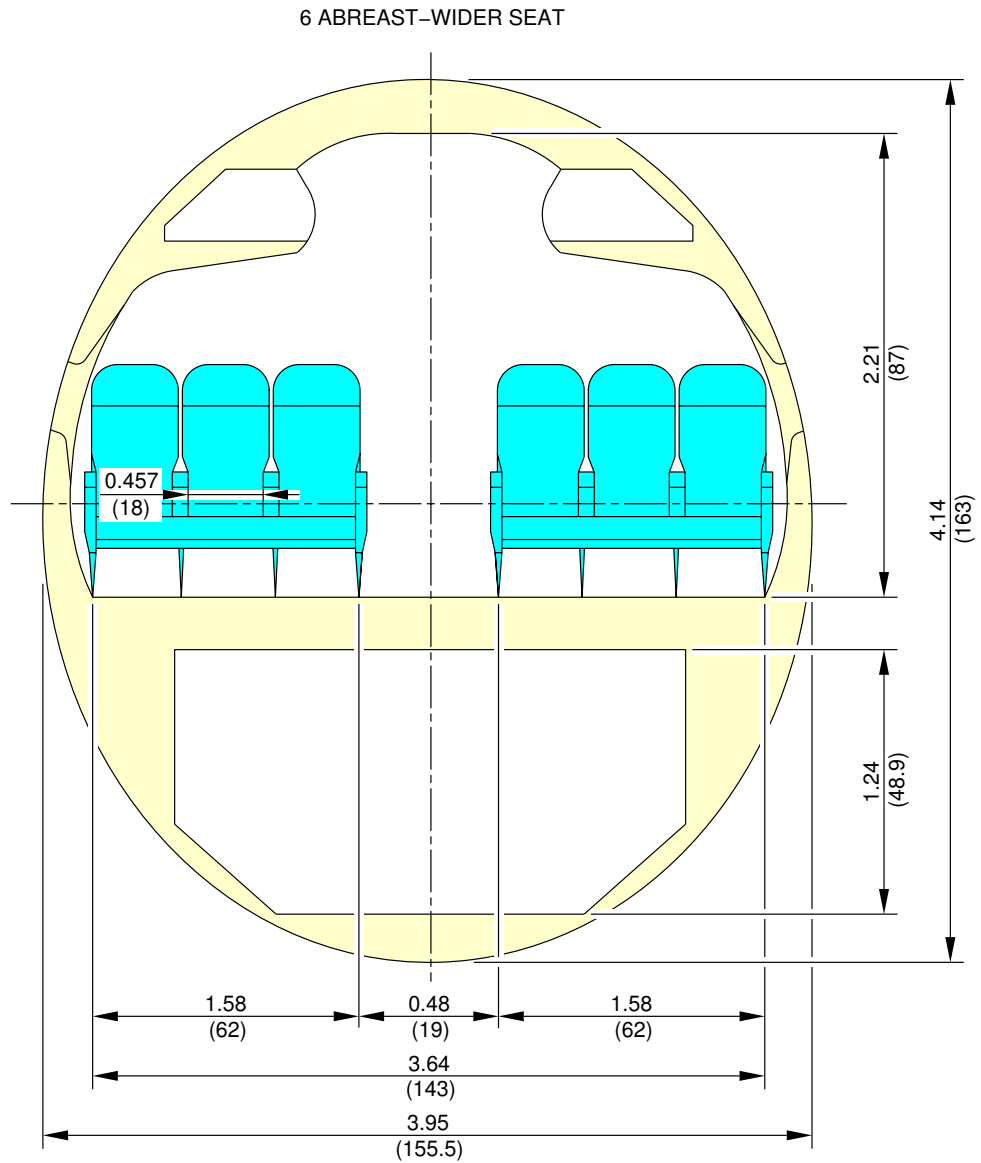


NOTE: DIMENSIONS m (in)

N_AC_020500_1_0050101_01_00

Passenger Compartment Cross-section
Economy Class, 6 Abreast - Wider Aisle (Sheet 1 of 2)
FIGURE 2

****ON A/C A319-100**

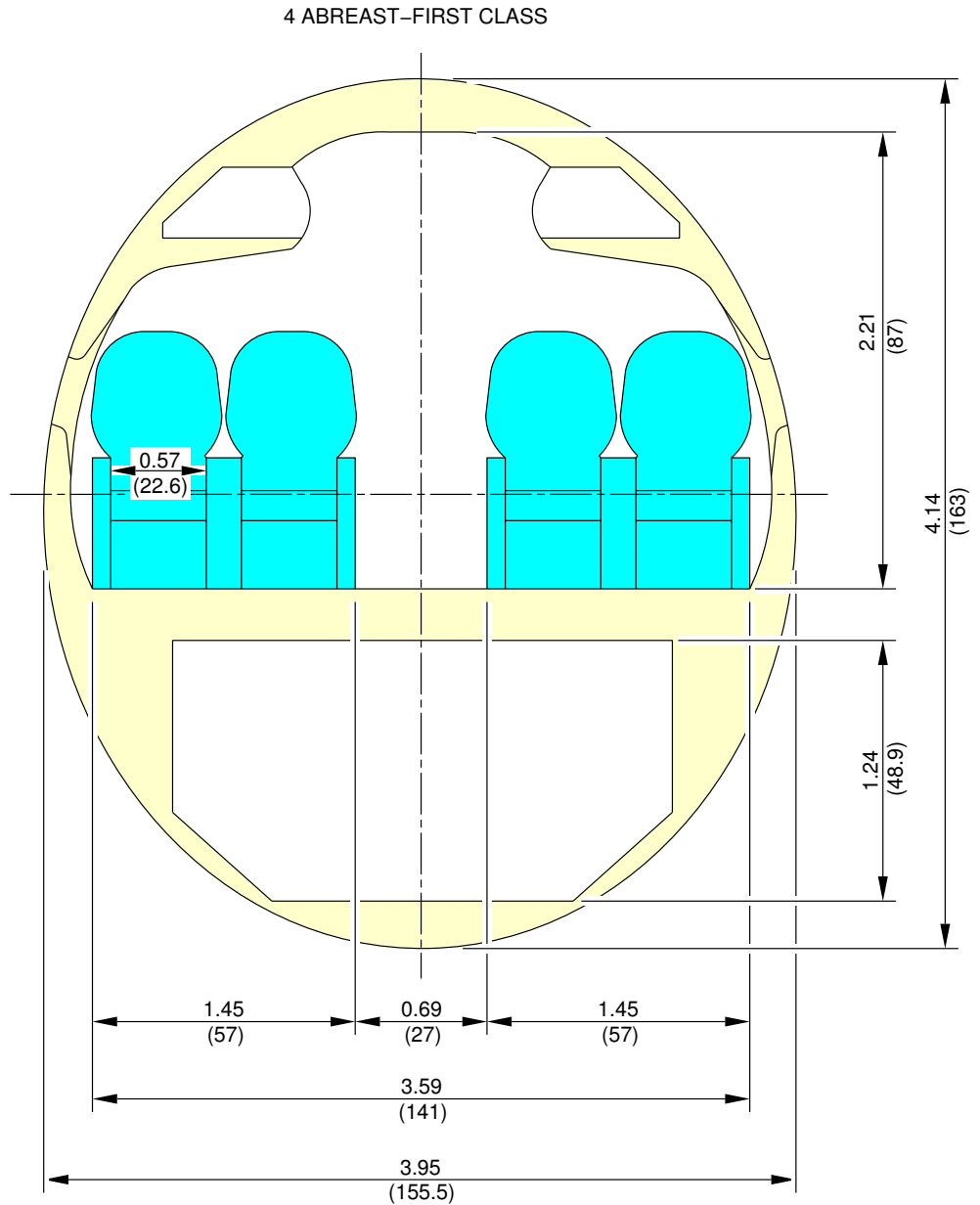


NOTE: DIMENSIONS m (in)

N_AC_020500_1_0050102_01_02

Passenger Compartment Cross-section
Economy Class, 6 Abreast - Wider Seat (Sheet 2 of 2)
FIGURE 3

****ON A/C A319-100**



NOTE: DIMENSIONS m (in)

N_AC_020500_1_0060101_01_00

Passenger Compartment Cross-section
Passenger Compartment Cross-section, First-class
FIGURE 4



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

2-6-0 Cargo Compartments

****ON A/C A319-100**

Cargo Compartments

1. This section gives the cargo compartments location and dimensions.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

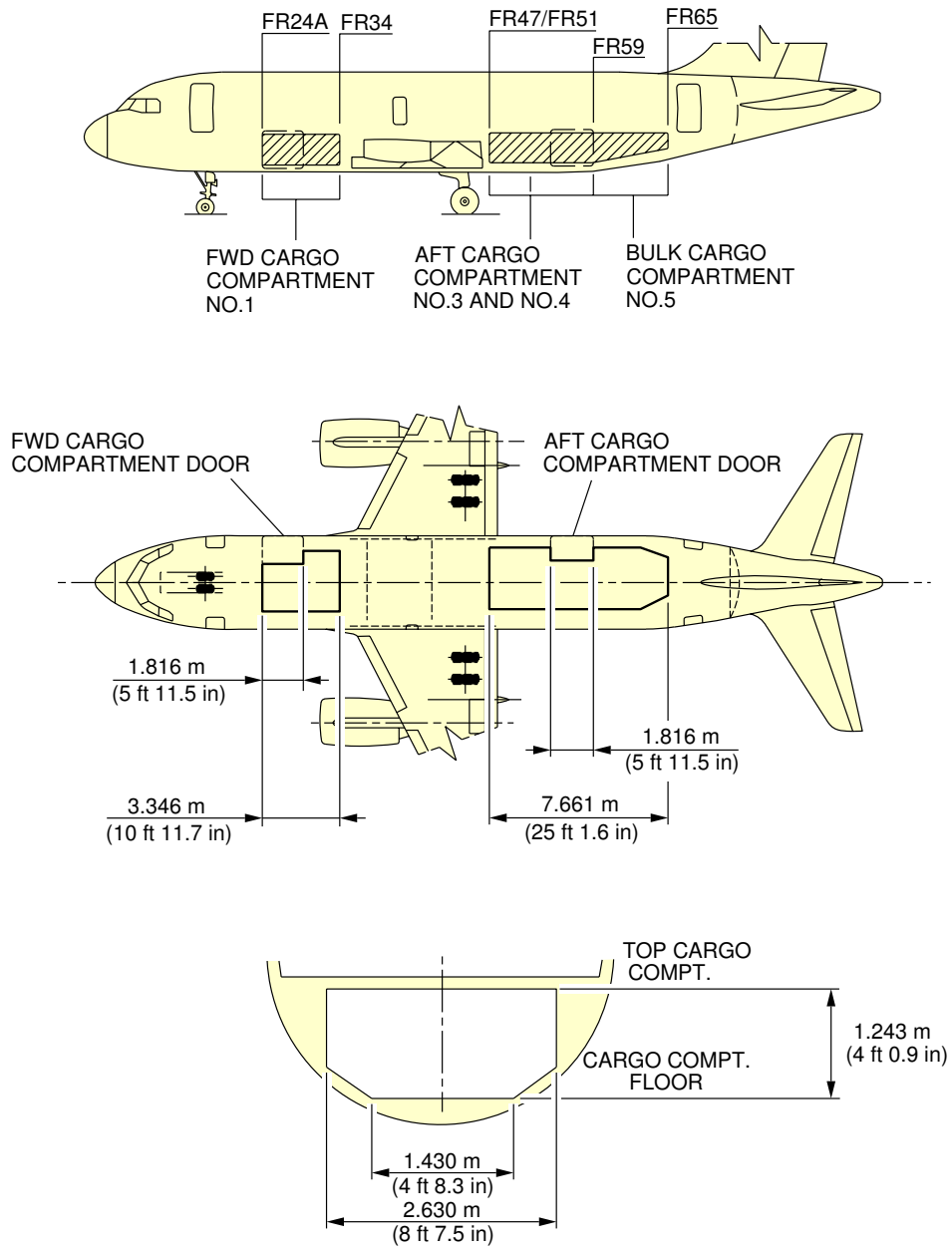
2-6-1 Lower Deck Cargo Compartments

****ON A/C A319-100**

Lower Deck Cargo Compartments

1. This section gives the lower deck cargo compartments.

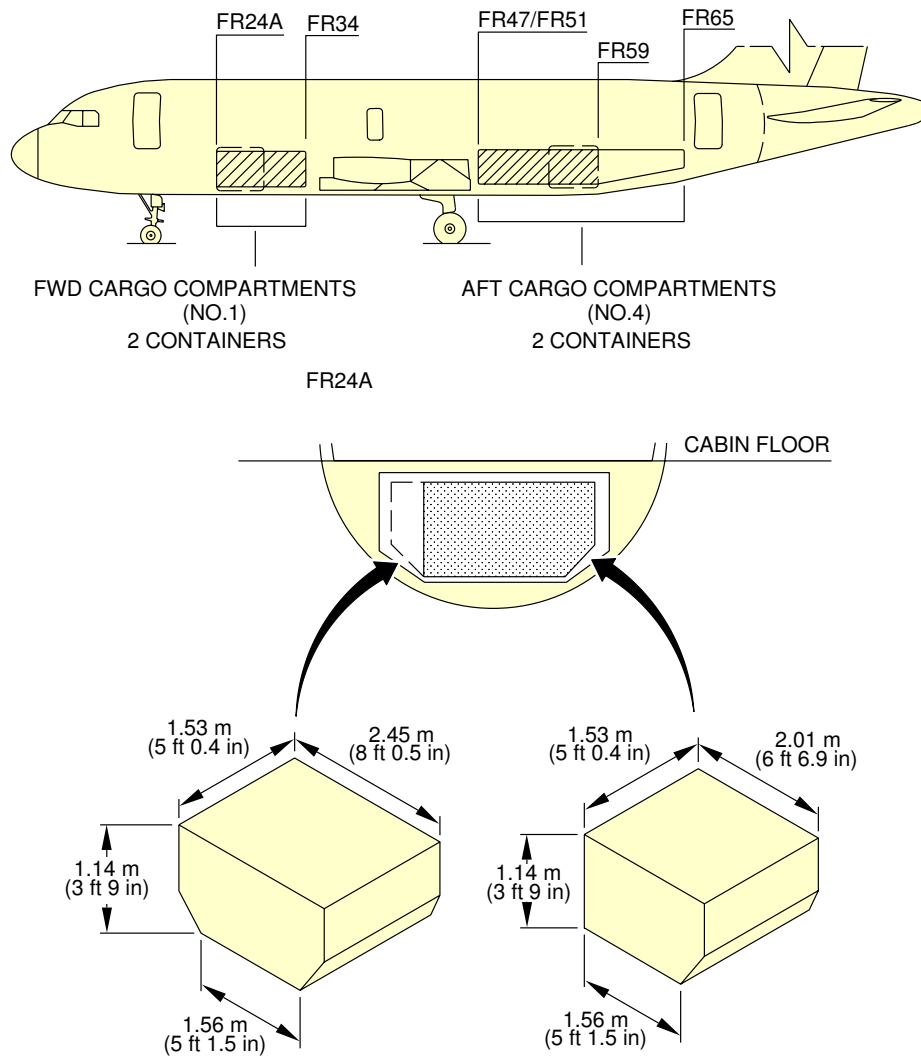
****ON A/C A319-100**



N_AC_020601_1_0020101_01_00

Lower Deck Cargo Compartments
Lower Deck Cargo Compartments Dimensions
FIGURE 1

****ON A/C A319-100**



N_AC_020601_1_0030101_01_00

Lower Deck Cargo Compartments
Lower Deck Cargo Compartments Containers
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

2-7-0 Door Clearances

****ON A/C A319-100**

Doors Clearances

1. This section gives doors clearances.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

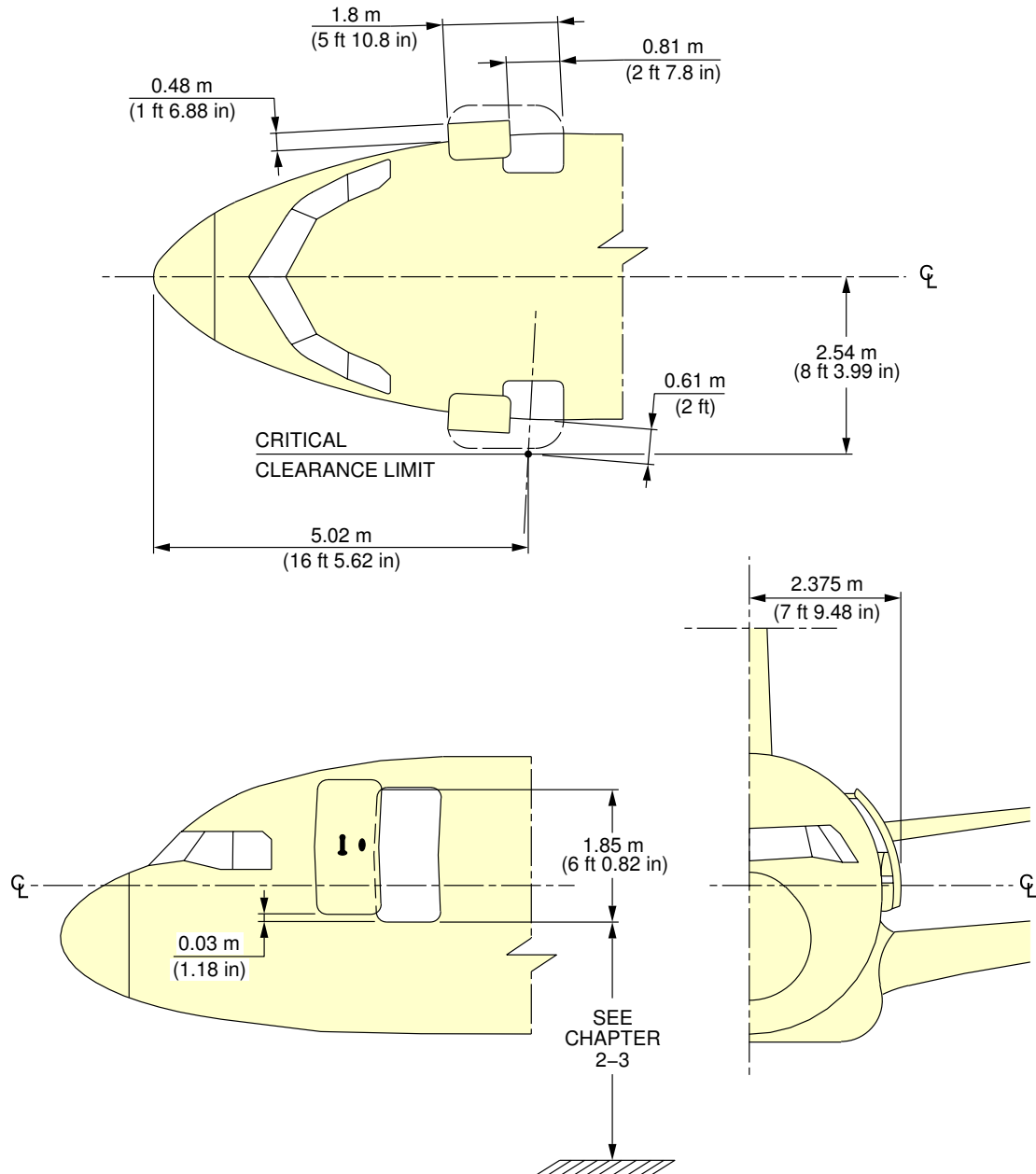
2-7-1 Forward Passenger / Crew Doors

****ON A/C A319-100**

Forward Passenger / Crew Doors

1. This section gives forward passenger / crew doors clearances.

****ON A/C A319-100**



N_AC_020701_1_0020101_01_00

Doors Clearances
Forward Passenger / Crew Doors
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

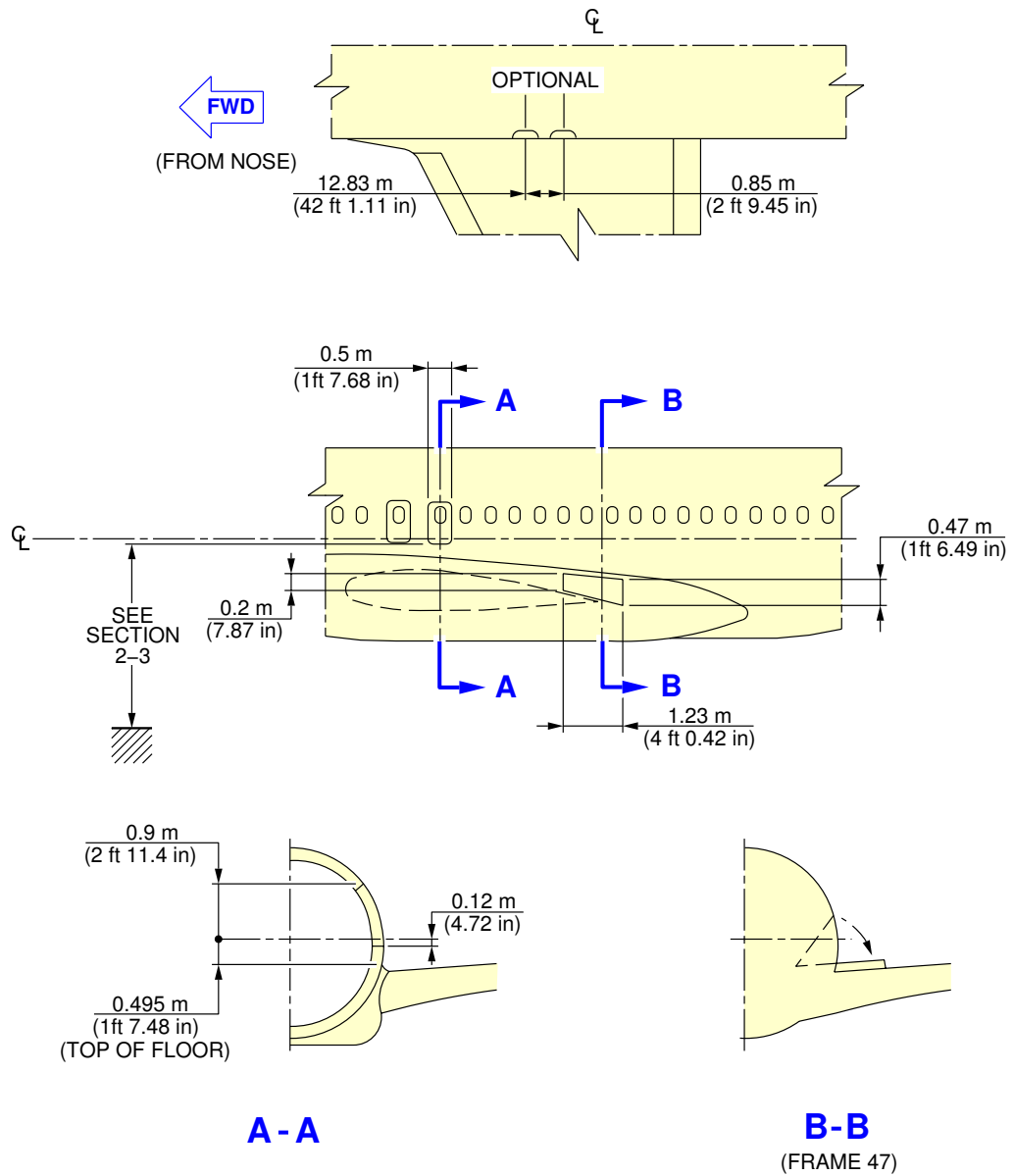
2-7-2 Emergency Exits

****ON A/C A319-100**

Emergency Exits

1. This section gives emergency exits doors clearances.

****ON A/C A319-100**



NOTE: ESCAPE SLIDE COMPARTMENT DOOR
OPENS ON WING UPPER SURFACE.

N_AC_020702_1_0030101_01_00

Doors Clearances
Emergency Exits
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

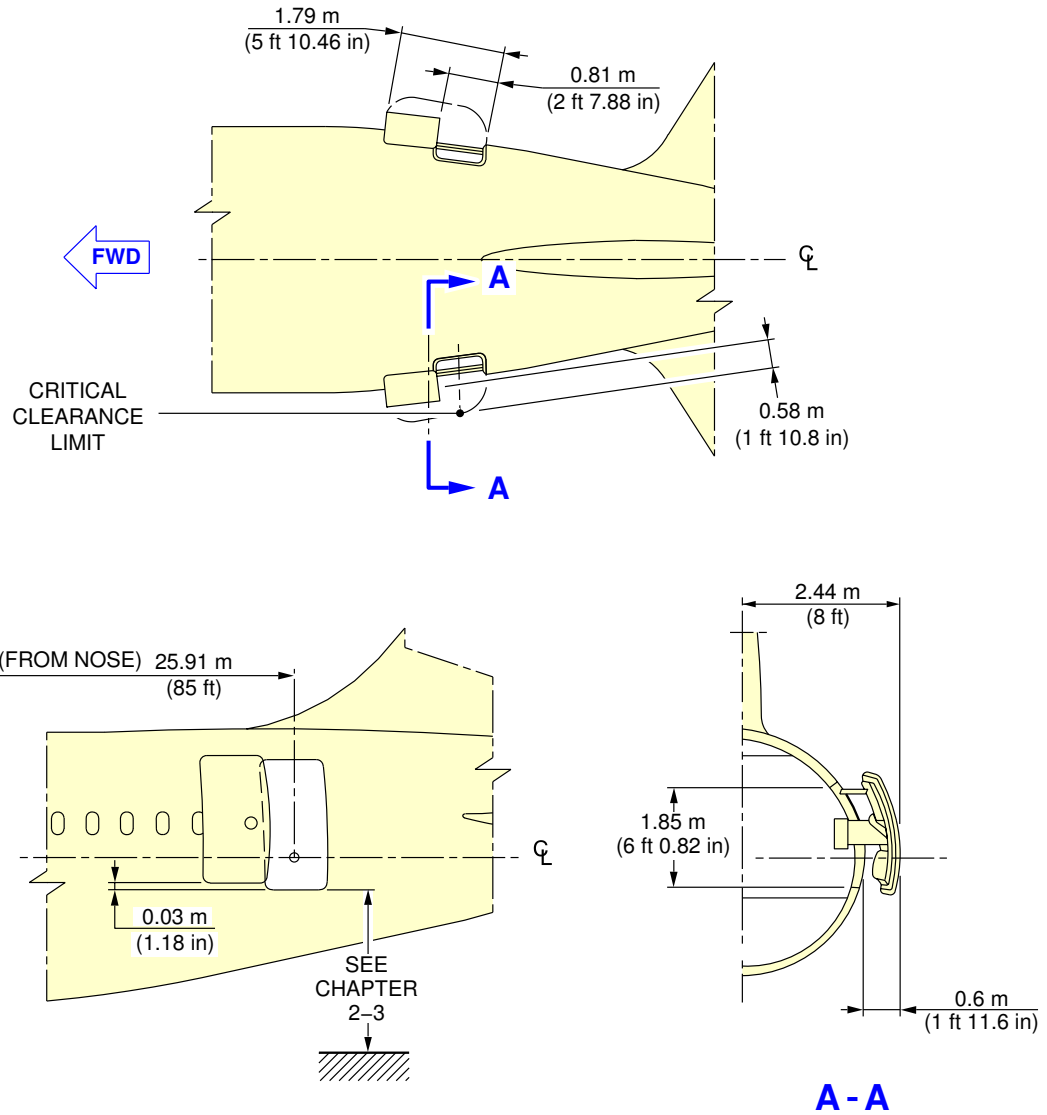
2-7-3 Aft Passenger / Crew Doors

****ON A/C A319-100**

Aft Passenger / Crew Doors

1. This section gives Aft passenger / crew doors clearances.

****ON A/C A319-100**



N_AC_020703_1_0020101_01_00

Doors Clearances
Aft Passenger / Crew Doors
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

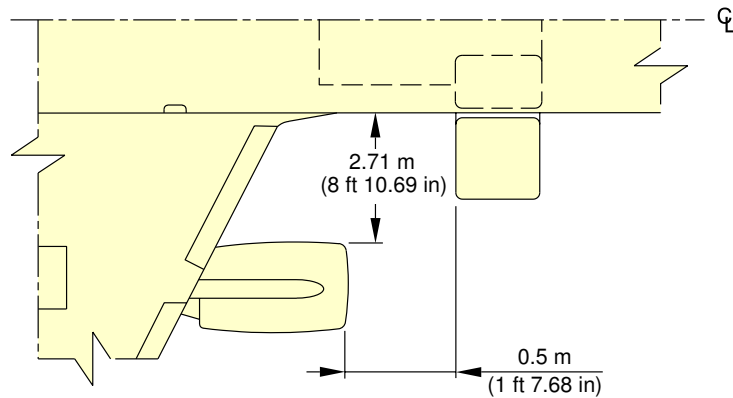
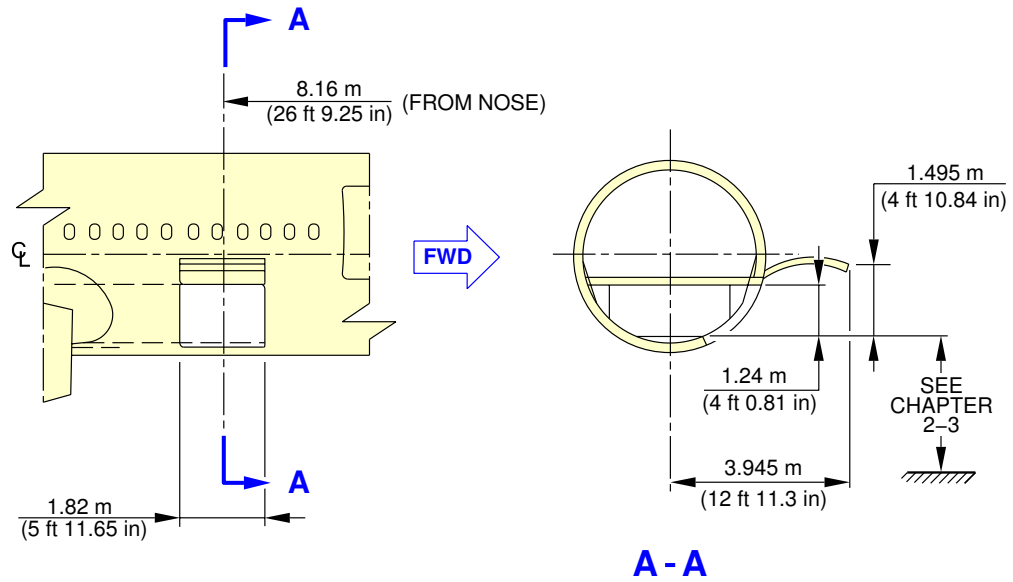
2-7-4 Forward Cargo Compartment Doors

****ON A/C A319-100**

Forward Cargo Compartment Door

1. This section gives forward cargo compartment door clearances.

****ON A/C A319-100**



N_AC_020704_1_0020101_01_00

Doors Clearances
Forward Cargo Compartment Door
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

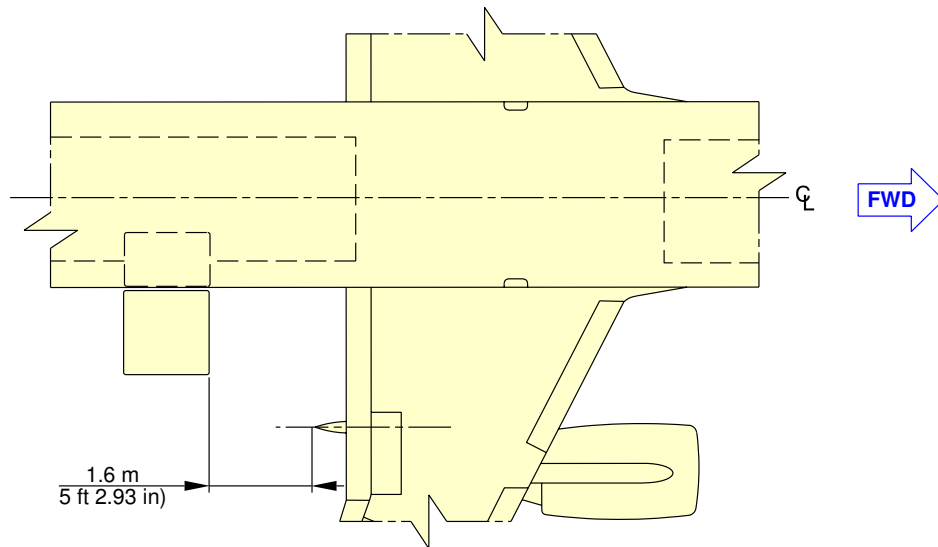
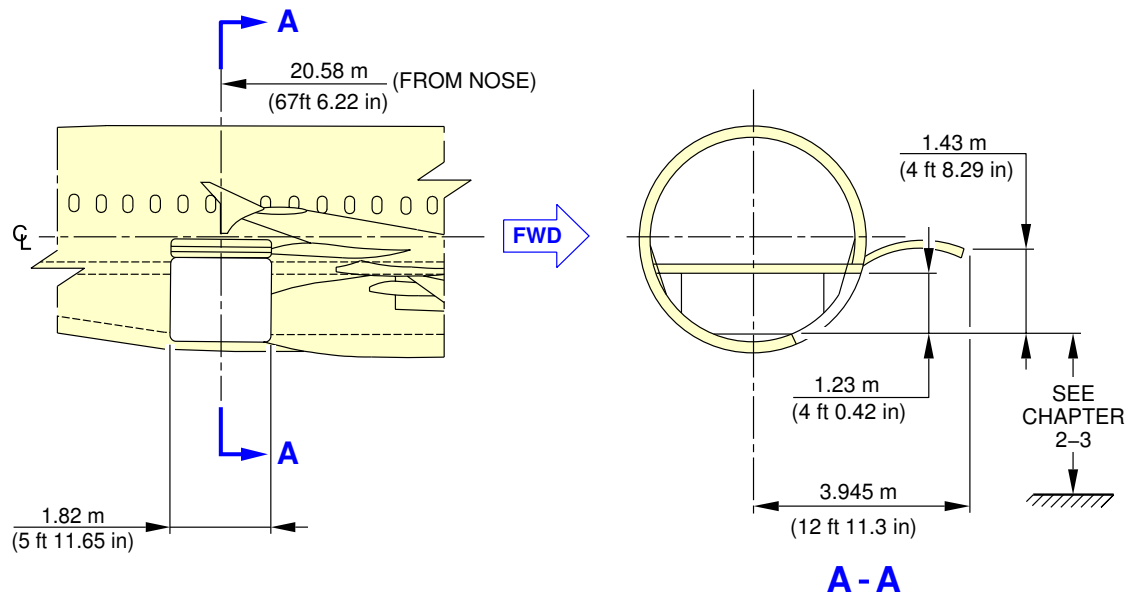
2-7-5 Aft Cargo Compartment Doors

****ON A/C A319-100**

Aft Cargo Compartment Door

1. This section gives Aft cargo compartment door clearances.

****ON A/C A319-100**



N_AC_020705_1_0020101_01_01

Doors Clearances
Aft Cargo Compartment Door
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

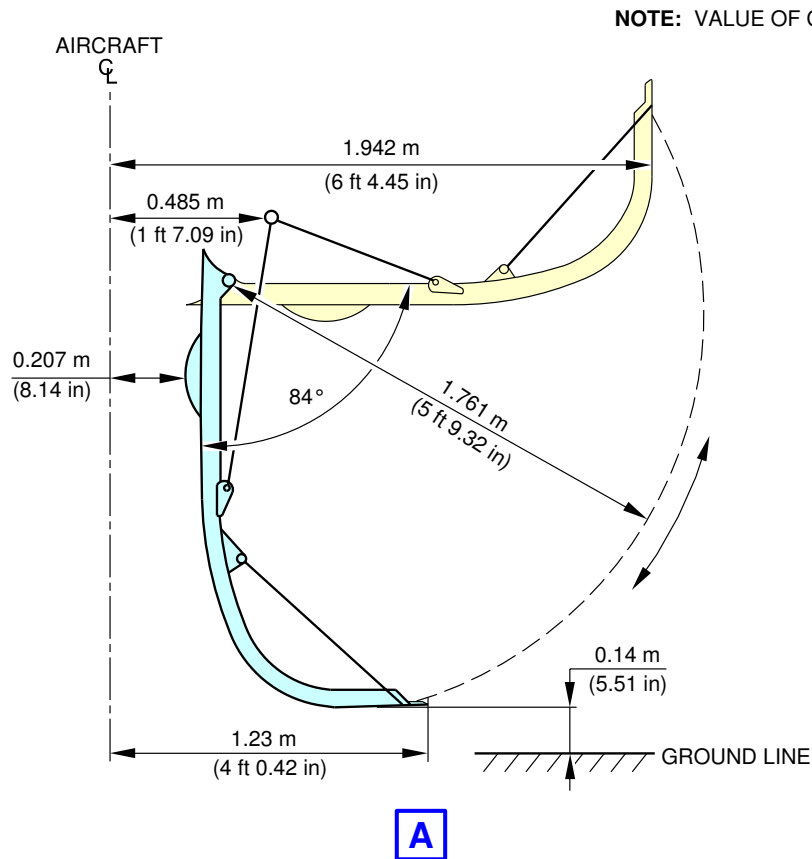
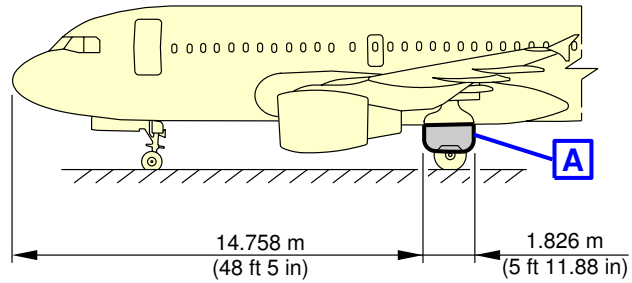
2-7-7 Main Landing Gear Doors

****ON A/C A319-100**

Main Landing Gear Doors

1. This section gives the main landing gear doors clearances.

****ON A/C A319-100**



NOTE: VALUE OF CG: 25% RC.

N_AC_020707_1_0020101_01_02

Doors Clearances
Main Landing Gear Doors
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

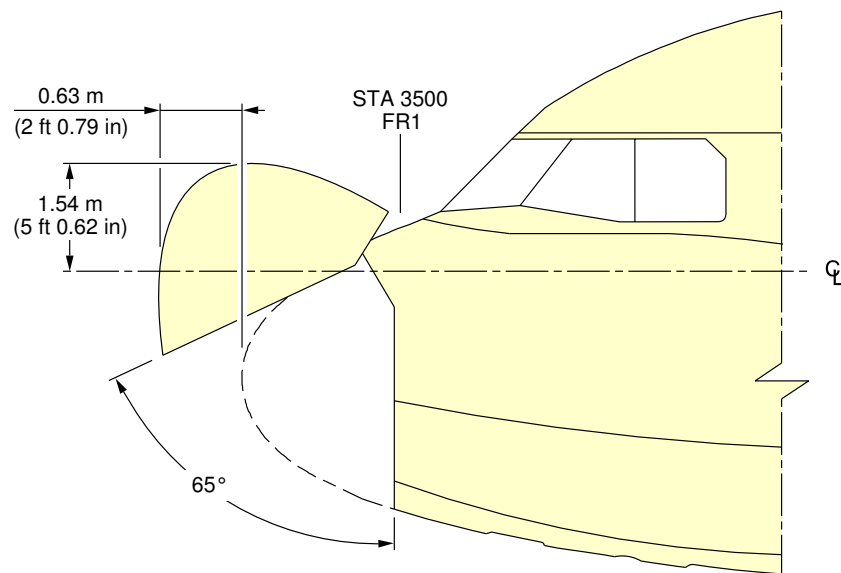
2-7-8 Radome

****ON A/C A319-100**

Radome

1. This section gives the radome clearances.

****ON A/C A319-100**



N_AC_020708_1_0020101_01_00

Doors Clearances
Radome
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

2-7-9 APU and Nose Landing Gear Doors

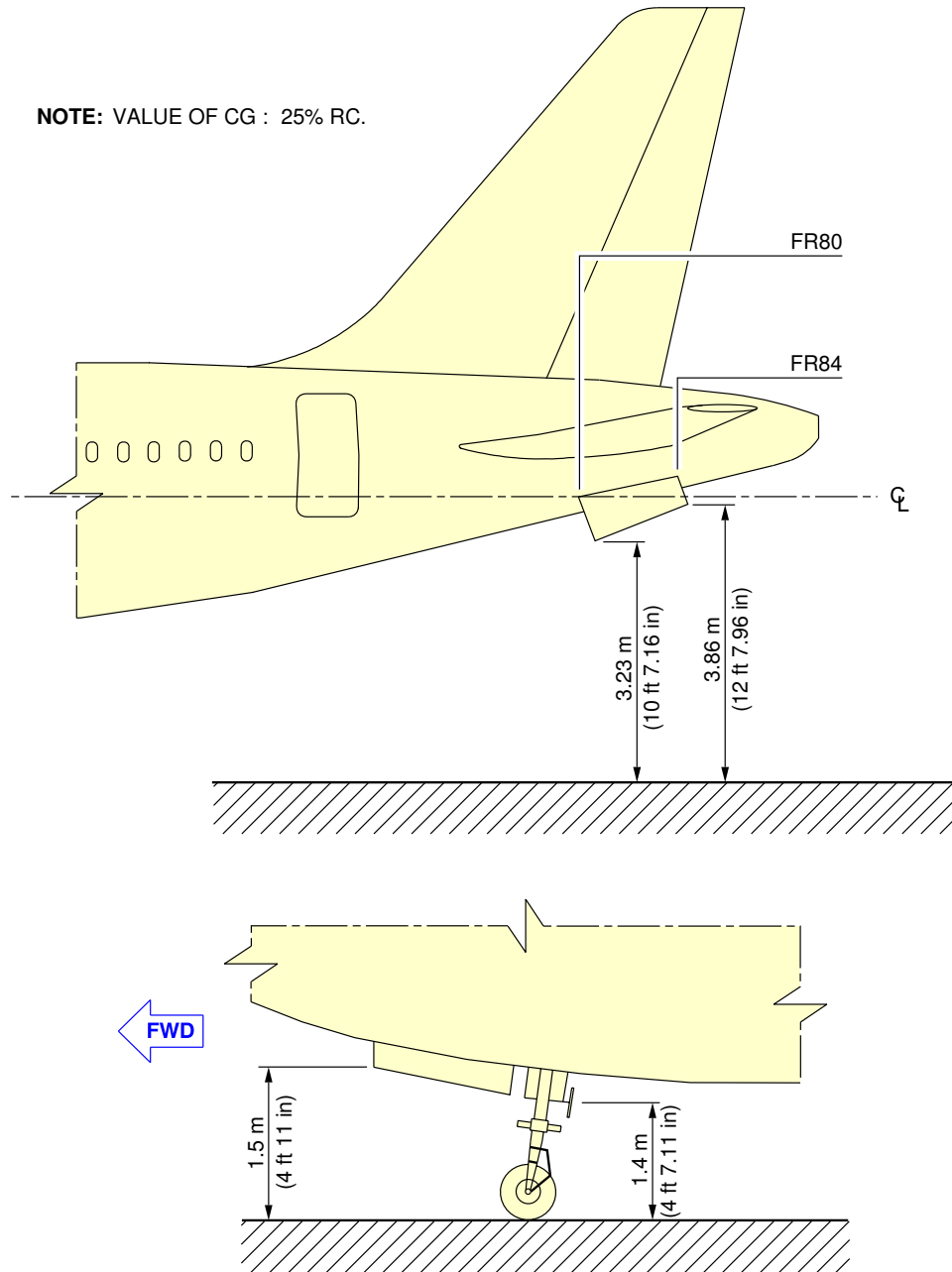
****ON A/C A319-100**

APU and Nose Landing Gear Doors

1. This section gives APU and Nose Landing Gear doors clearances.

****ON A/C A319-100**

NOTE: VALUE OF CG : 25% RC.



N_AC_020709_1_0020101_01_00

Doors Clearances
APU and Nose Landing Gear Doors
FIGURE 1

AIRPLANE PERFORMANCE**3-1-0 General Information******ON A/C A319-100****General Information**

1. This section gives standard day temperatures.

Section 3-2 indicates payload range information at specific altitudes recommended for long range cruise with a given fuel reserve condition.

Section 3-3 represents FAR take-off runway length requirements at ISA and ISA +15° C (+59° F) for CFM56-5A, CFM56-5B and IAE V2500 series engine conditions for FAA certification.

Section 3-4 represents FAR landing runway length requirements for FAA certification.

Section 3-5 indicates final approach speeds.

Standard day temperatures for the altitudes shown are tabulated below:

Standard day temperatures for the altitude			
Altitude		Standard Day Temperature	
FEET	METERS	° F	° C
0	0	59.0	15.0
2000	610	51.9	11.1
4000	1219	44.7	7.1
6000	1829	37.6	3.1
8000	2438	30.5	-0.8



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

3-2-0 Payload / Range

****ON A/C A319-100**

Payload / Range

1. Payload / Range



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

3-2-1 ISA Conditions

****ON A/C A319-100**

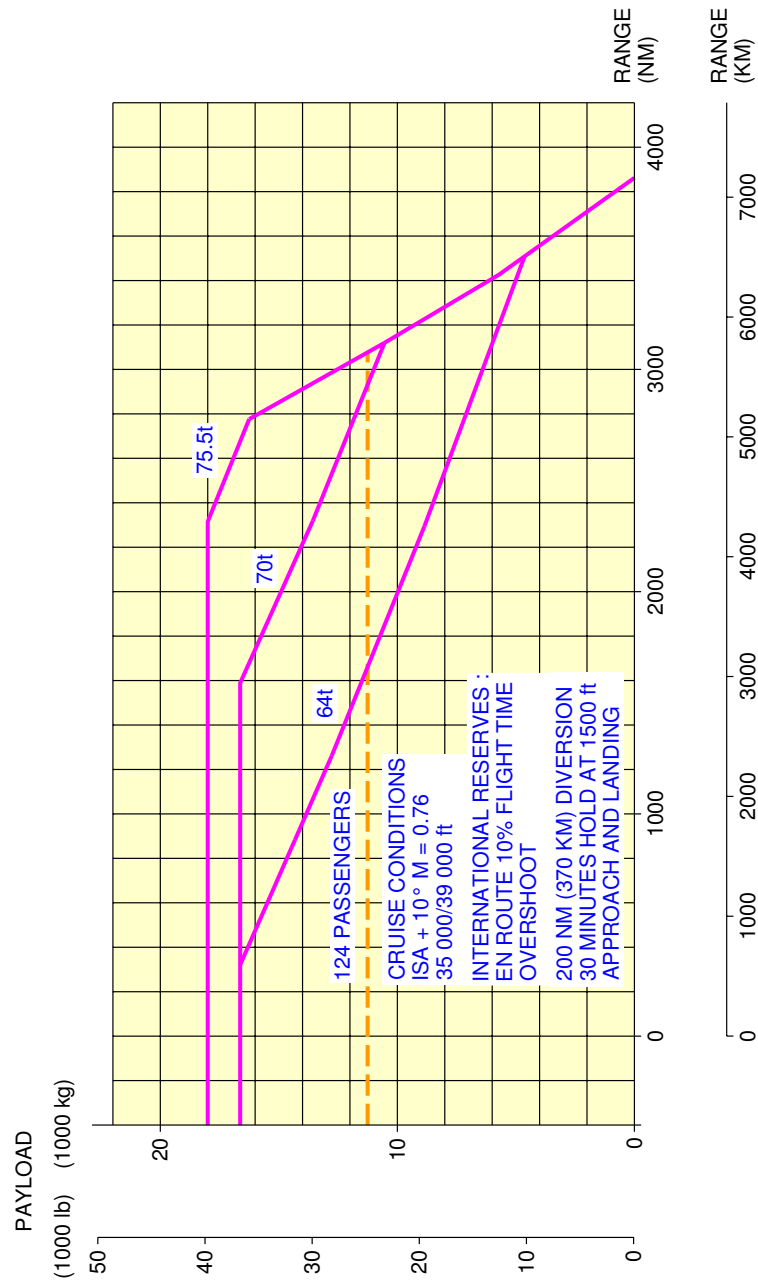
ISA Conditions

1. This section gives the payload / range at ISA conditions.

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUE ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.

MAX TAKE-OFF WEIGHT
145 504 lb
(66 000 kg)



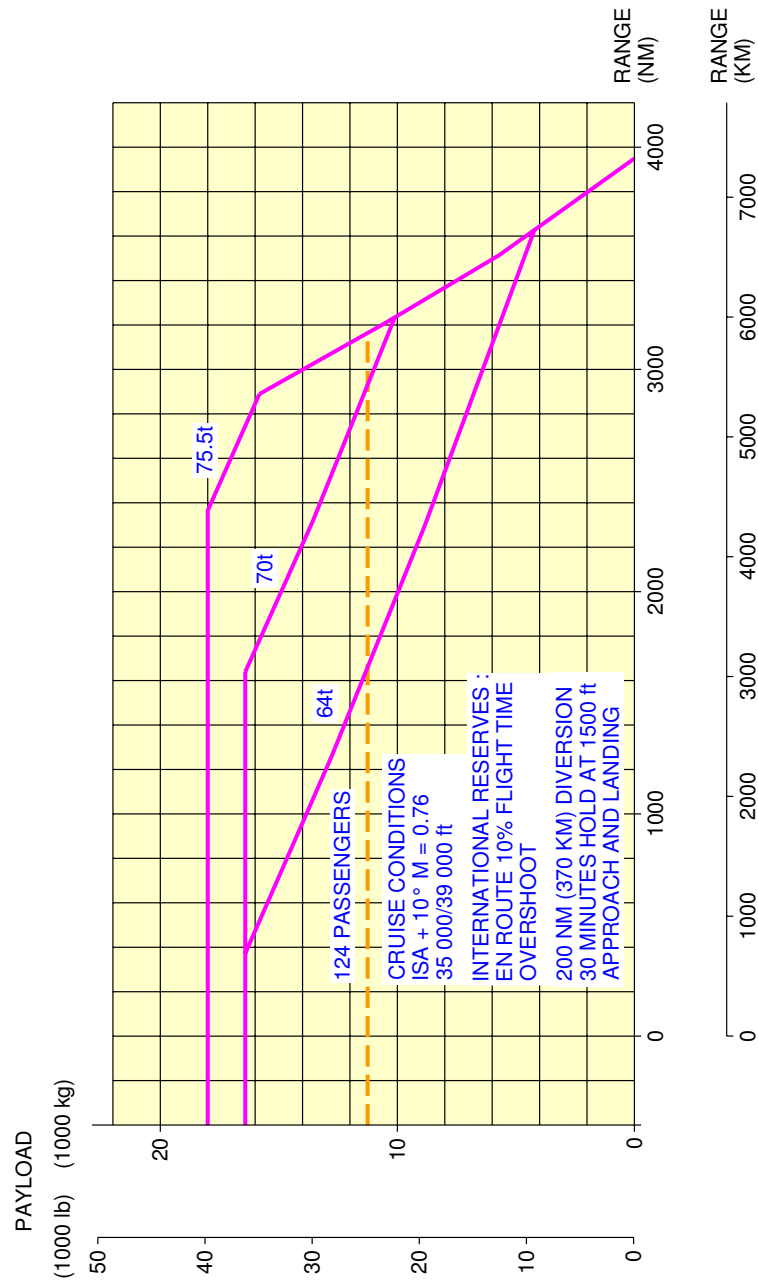
N_AC_030201_1_0030101_01_00

Payload / Range
CFM56-5A series engine
FIGURE 1

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUE ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.

MAX TAKE-OFF WEIGHT
145 504 lb
(66 000 kg)



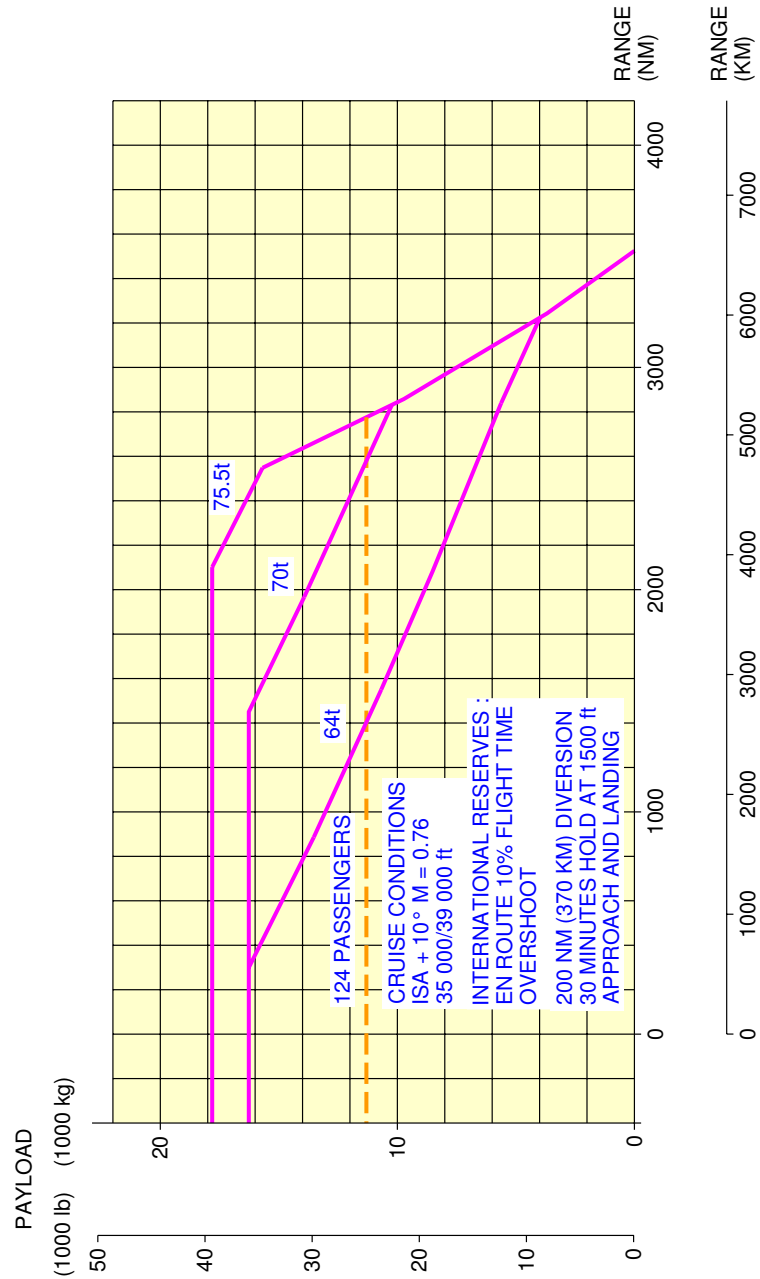
N_AC_030201_1_0040101_01_00

Payload / Range
CFM56-5B series engine
FIGURE 2

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUE ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.

MAX TAKE-OFF WEIGHT
145 504 lb
(66 000 kg)



N_AC_030201_1_0050101_01_00

Payload / Range
IAE V2500-A5 series engine
FIGURE 3



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

3-3-0 FAR / JAR Takeoff Weight Limitation

****ON A/C A319-100**

FAR / JAR Take-off Weight Limitation

1. FAR / JAR Take-off Weight Limitation



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

3-3-1 ISA Conditions

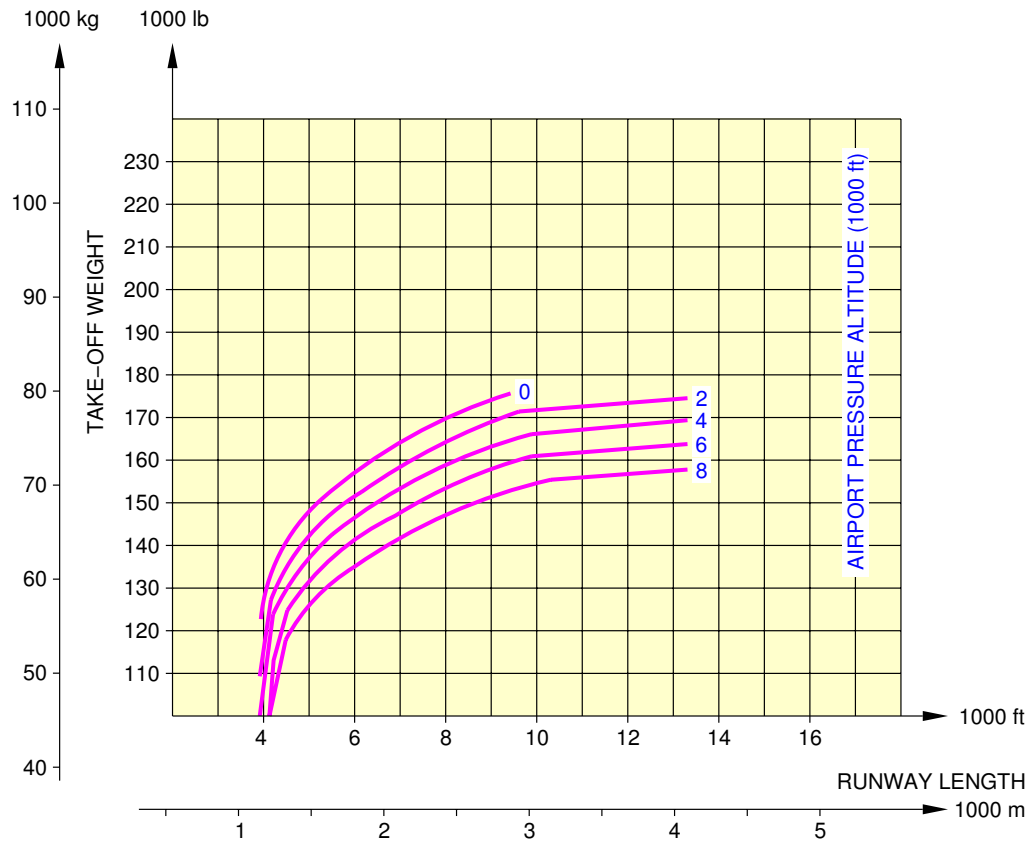
****ON A/C A319-100**

ISA Conditions

1. This section gives the take-off weight limitation at ISA conditions.

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUES ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.

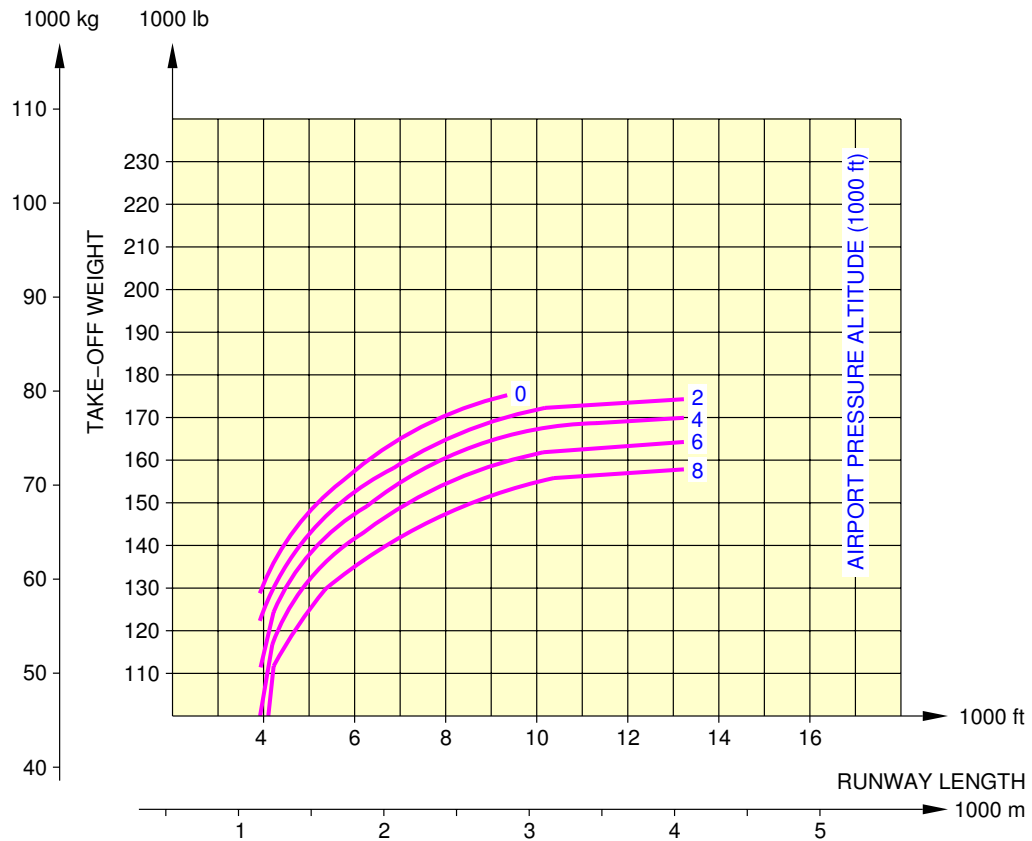


N_AC_030301_1_0030101_01_00

FAR / JAR Take-off Weight Limitation
ISA Conditions – CFM56 series engine
FIGURE 1

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUES ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.



N_AC_030301_1_0040101_01_00

FAR / JAR Take-off Weight Limitation
ISA Conditions – IAE V2500 series engine
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

3-3-2 ISA +15 ° C (+59 ° F) Conditions

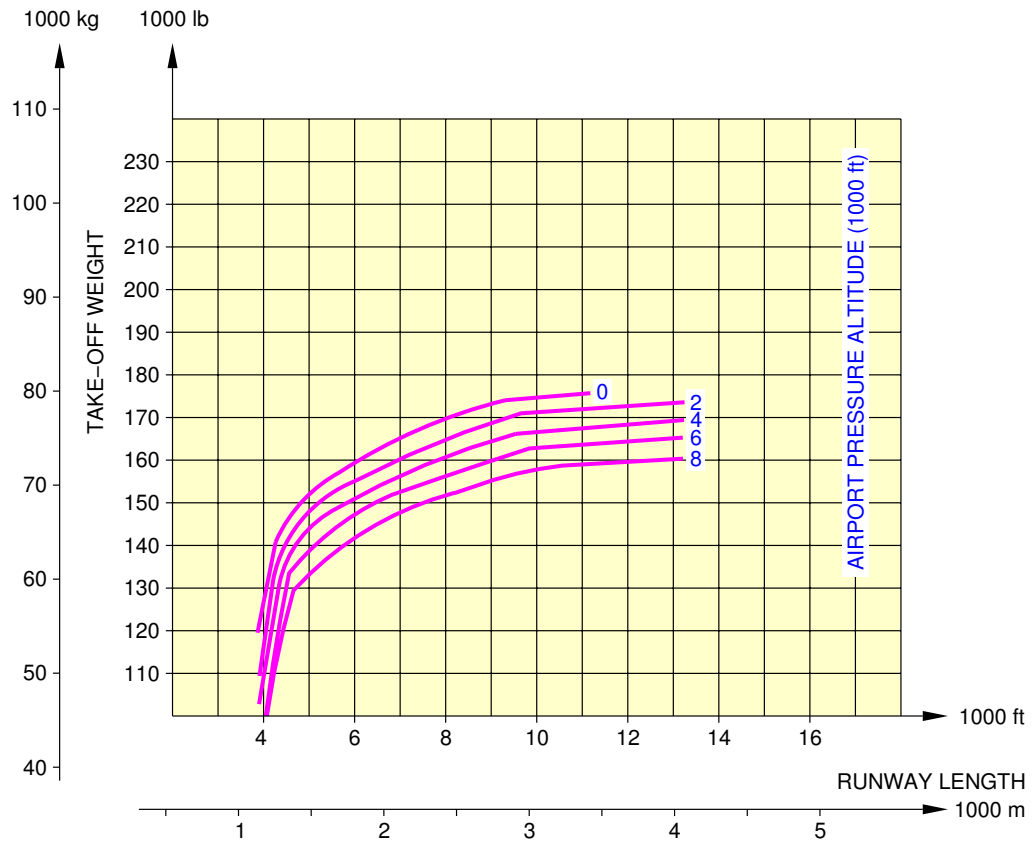
****ON A/C A319-100**

ISA +15 ° C (+59 ° F) Conditions

1. This section gives the take-off weight limitation at ISA +15 ° C (+59 ° F) conditions.

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUES ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.

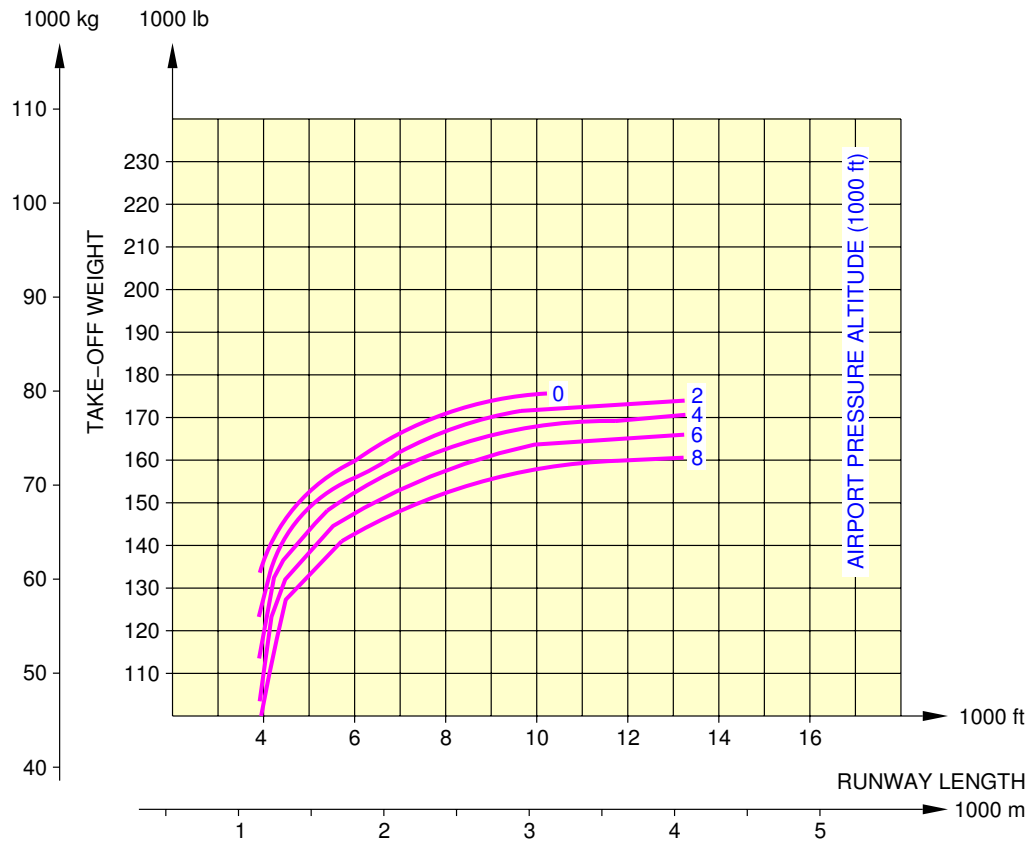


N_AC_030302_1_0030101_01_00

FAR / JAR Take-off Weight Limitation
ISA +15 °C (+59 °F) Conditions – CFM56 series engine
FIGURE 1

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUES ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.



N_AC_030302_1_0040101_01_00

FAR / JAR Take-off Weight Limitation
ISA +15 °C (+59 °F) Conditions – IAE V2500 series engine
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

3-4-0 FAR / JAR Landing Field Length

****ON A/C A319-100**

FAR / JAR Landing Field Length

1. FAR / JAR Landing Field Length



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

3-4-1 ISA Conditions

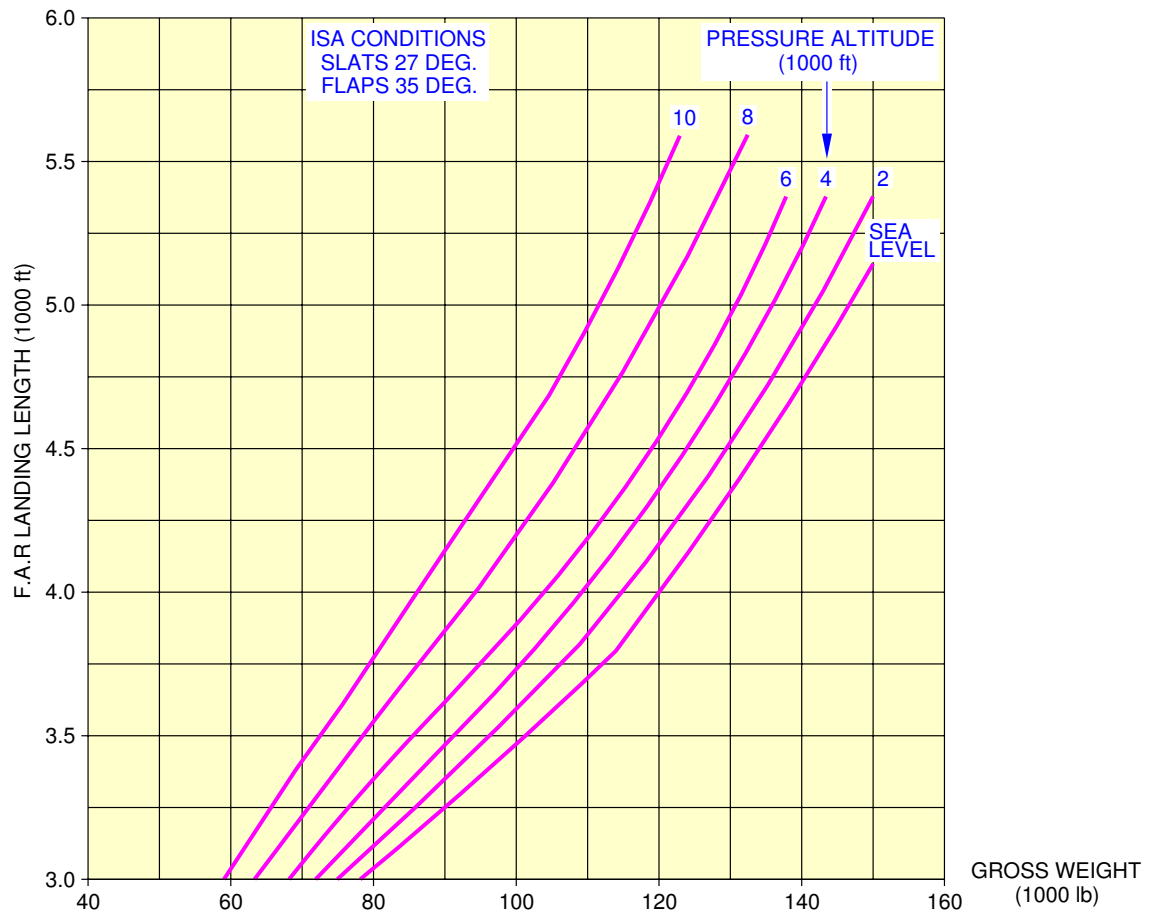
****ON A/C A319-100**

ISA Conditions

1. This section gives the landing field length.

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUES ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.

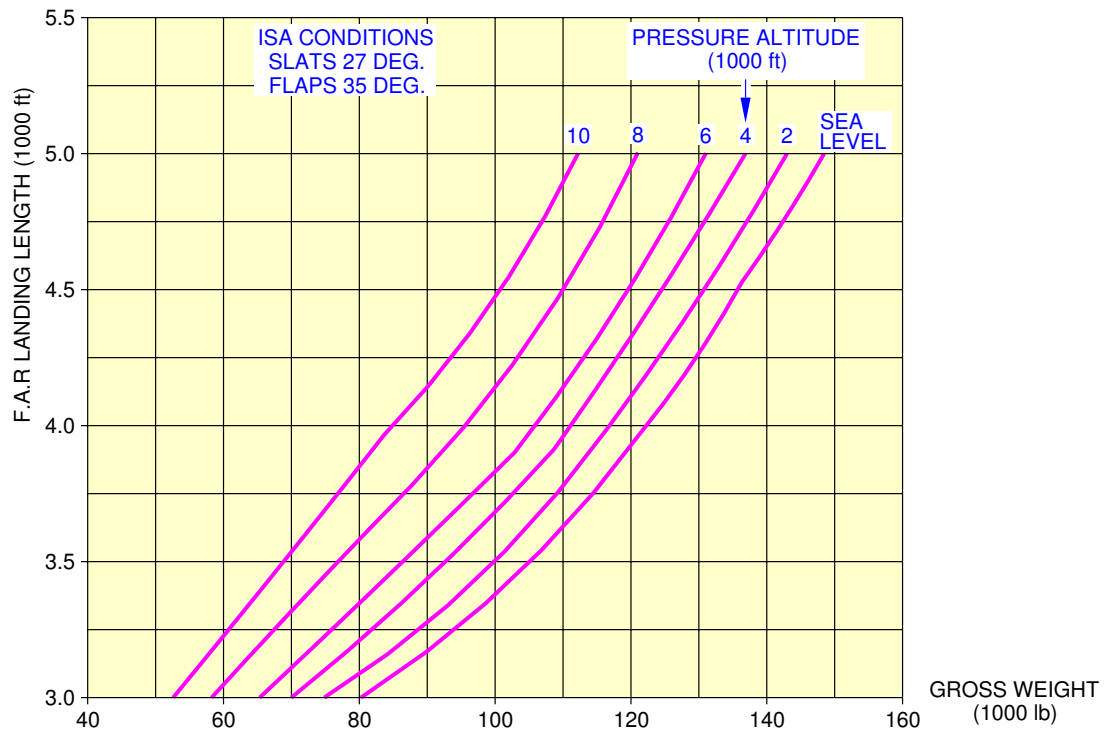


N_AC_030401_1_0030101_01_00

FAR / JAR Landing Field Length
CFM56-5A series engine
FIGURE 1

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUES ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.



N_AC_030401_1_0040101_01_00

FAR / JAR Landing Field Length
IAE V2500 series engine
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

3-5-0 Final Approach Speed

****ON A/C A319-100**

Final Approach Speed

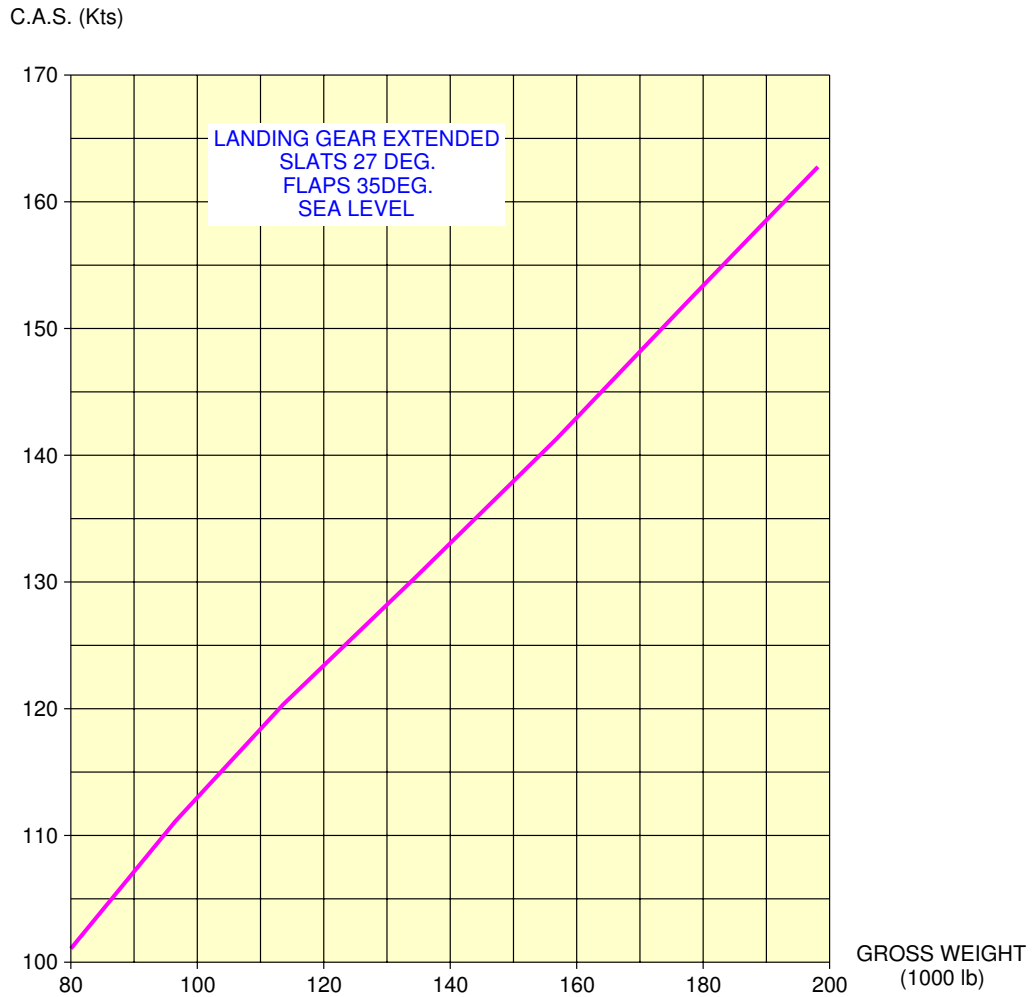
1. This section gives the final approach speed.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUES ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.

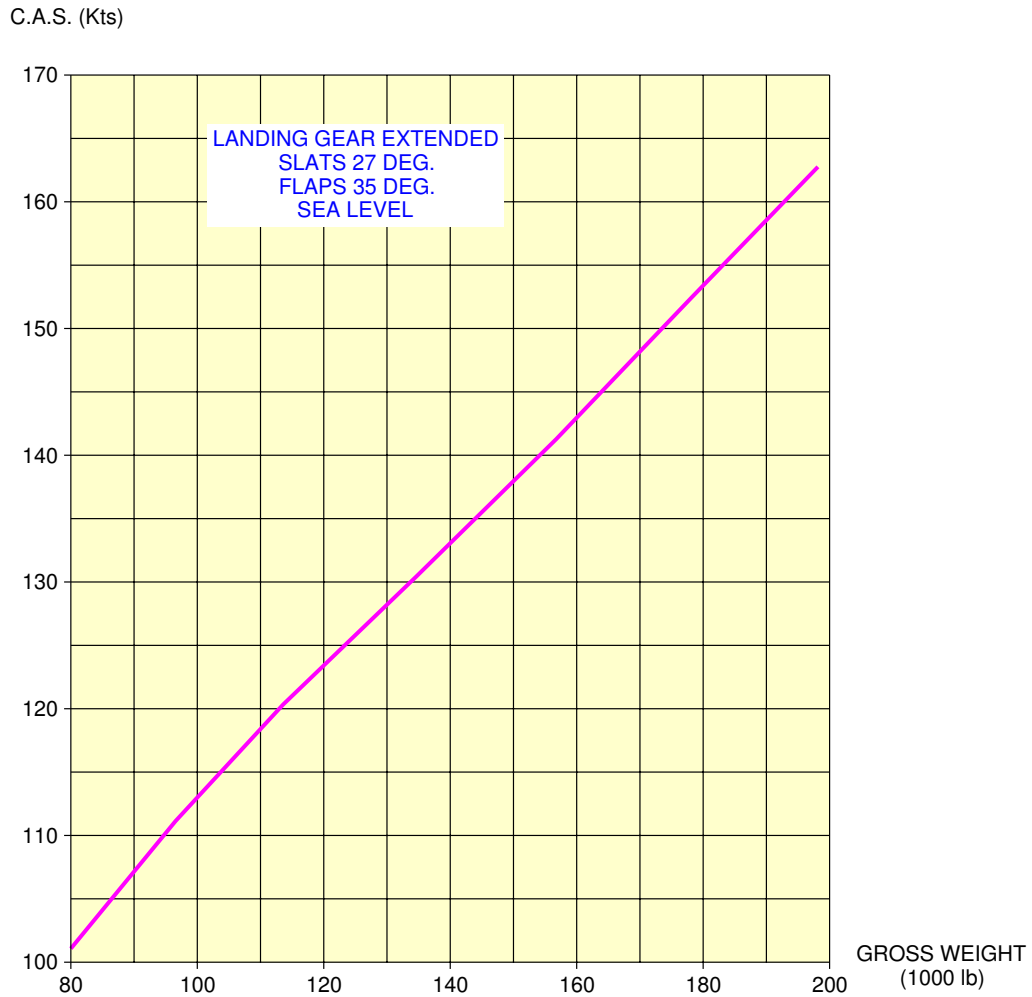


N_AC_030500_1_0030101_01_00

Final Approach Speed
CFM56-5A series engine
FIGURE 1

****ON A/C A319-100**

NOTE: THESE CURVES ARE GIVEN FOR INFORMATION ONLY
THE APPROVED VALUES ARE STATED IN THE "OPERATING
MANUALS" SPECIFIC TO THE AIRLINE OPERATING THE AIRCRAFT.



N_AC_030500_1_0040101_01_00

Final Approach Speed
IAE V2500 series engine
FIGURE 2

GROUND MANEUVERING**4-1-0 General Information******ON A/C A319-100****General Information**

1. This section provides airplane turning capability and maneuvering characteristics.

For ease of presentation, this data has been determined from the theoretical limits imposed by the geometry of the aircraft, and where noted, provides for a normal allowance for tire slippage. As such, it reflects the turning capability of the aircraft in favorable operating circumstances. This data should only be used as guidelines for the method of determination of such parameters and for the maneuvering characteristics of this aircraft type.

In the ground operating mode, varying airline practices may demand that more conservative turning procedures be adopted to avoid excessive tire wear and reduce possible maintenance problems. Airline operating techniques will vary in the level of performance, over a wide range of operating circumstances throughout the world. Variations from standard aircraft operating patterns may be necessary to satisfy physical constraints within the maneuvering area, such as adverse grades, limited area or high risk of jet blast damage. For these reasons, ground maneuvering requirements should be coordinated with the using airlines prior to layout planning.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

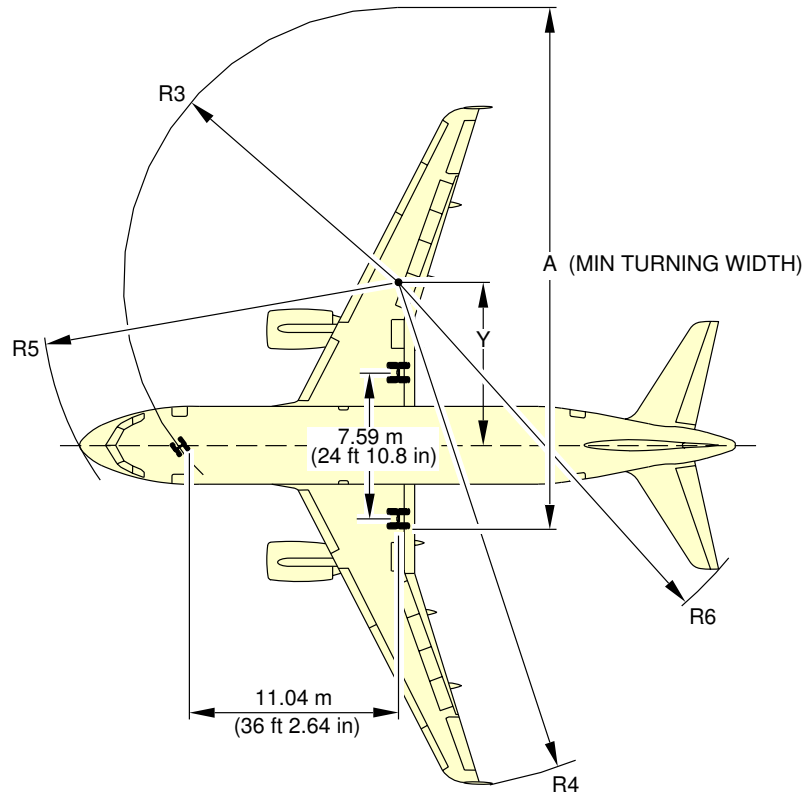
4-2-0 Turning Radii

****ON A/C A319-100**

Turning Radii

1. This section gives the turning radii.

****ON A/C A319-100**



NOTE: FOR STEERING DIMENSION TABLE SEE SHEET 2.

TURN TYPE

1. ASYMMETRIC THRUST DIFFERENTIAL BRAKING (PIVOTTING ON ONE MAIN GEAR).
2. SYMMETRIC THRUST NO BRAKING

N_AC_040200_1_0030101_01_01

Turning Radii, no Slip Angle
FIGURE 1

**ON A/C A319-100

TURN TYPE	MAXIMUM RAMP WEIGHT		Y	R3		R4		R5		R6		A	
	STEERING ANGLE	EFFECTIVE STEERING ANGLE WITH SLIP ON NLG TYRES											
	WT.30.3% A319-100	WT.31% A319-100 vv 002		m	ft	m	ft	m	ft	m	ft	m	ft
1	-	-	71°	3.79	12.4	21.36	70.1	16.55	54.3	19.66	64.5	20.35	66.8
2	75.00°		70°	4.01	13.2	21.58	70.8	16.60	54.5	19.77	64.9	20.64	67.7
2		75.00°	70°	3.86	12.7	21.43	70.3	16.57	54.4	19.69	64.6	20.44	67.1
2	74.92°	73.91°	70°	4.02	13.2	21.58	70.8	16.61	54.5	19.77	64.9	20.64	67.7
2	66.01°	65.92°	65°	5.15	16.9	22.69	74.4	16.91	55.5	20.38	66.9	22.21	72.9
2	60.39°	60.40°	60°	6.37	20.9	23.89	78.4	17.33	56.8	21.09	69.2	24.00	78.7
2	55.32°	55.32°	55°	7.73	25.4	25.22	82.7	17.87	58.6	21.93	71.9	26.08	85.6
2	50.29°	50.28°	50°	9.26	30.4	26.73	87.7	18.59	61.0	22.93	75.2	28.55	93.7
2	45.25°	45.24°	45°	11.04	36.2	28.48	93.4	19.53	64.1	24.17	79.3	31.53	103.4
2	40.22°	40.21°	40°	13.16	43.2	30.57	100.3	20.80	68.2	25.72	84.4	35.21	115.5
2	35.19°	35.18°	35°	15.77	51.7	33.15	108.8	22.54	74.0	27.74	91.0	39.89	130.9
2	30.16°	30.15°	30°	19.12	62.7	36.47	119.7	25.00	82.0	30.47	100.0	46.08	151.2
2	25.13°	25.12°	25°	23.67	77.7	40.99	134.5	28.64	94.0	34.35	112.7	54.67	179.4
2	20.10°	20.10°	20°	30.33	99.5	47.61	156.2	34.34	112.7	40.28	132.1	67.49	221.4
2	15.08°	15.07°	15°	41.20	135.2	58.44	191.7	44.24	145.1	50.35	165.2	88.73	291.1

N_AC_040200_1_0040101_01_00

Turning Radii, no Slip Angle
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

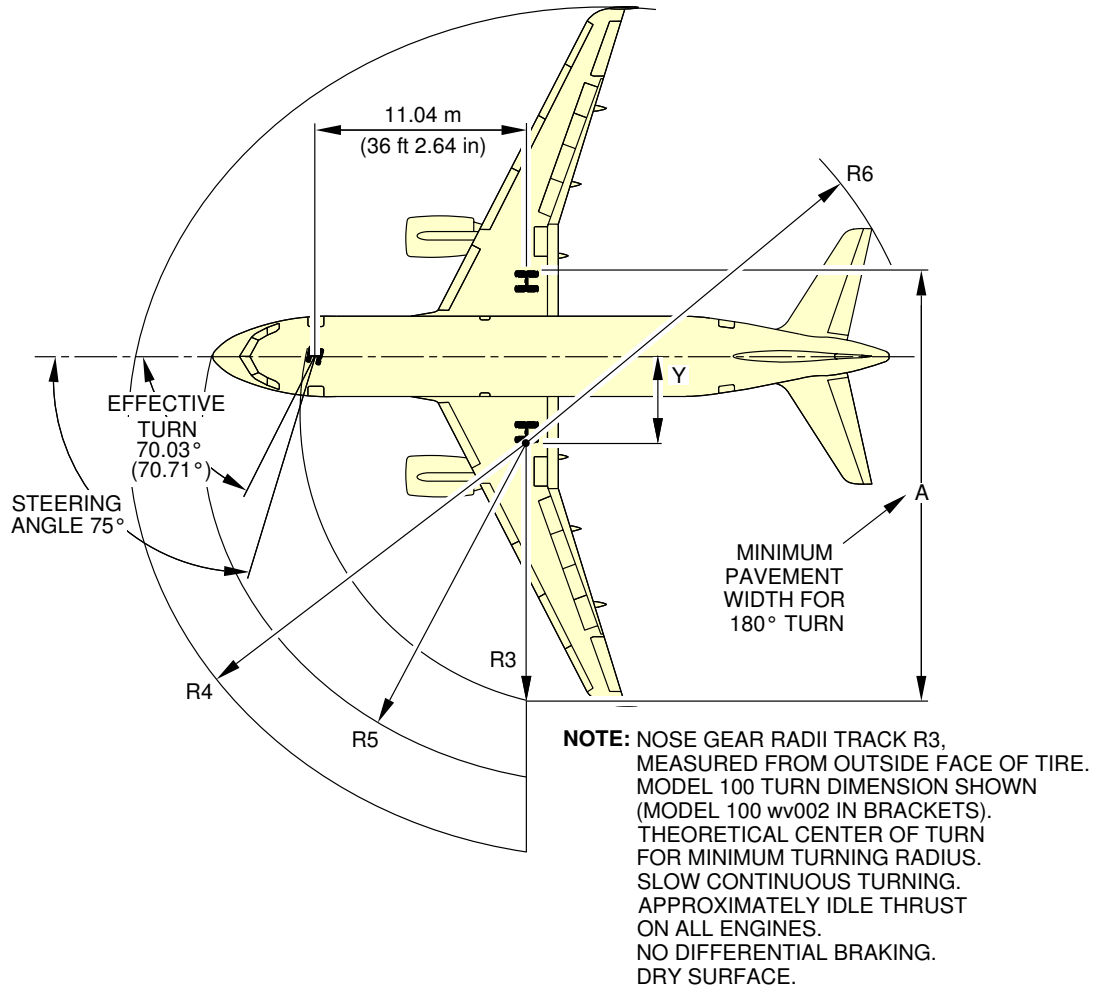
4-3-0 Minimum Turning Radii

****ON A/C A319-100**

Minimum Turning Radii

1. This section gives the minimum turning radii.

****ON A/C A319-100**



A319-100 vv002

EFFECTIVE TURN ANGLE		Y	A	R3	R4	R5	R6
70.71° EFF	m	3.86	20.44	12.06	21.43	16.57	19.69
75° STEERED	(ft)	(12.7)	(67.1)	(39.6)	(70.3)	(54.4)	(64.6)

A319-100

EFFECTIVE TURN ANGLE		Y	A	R3	R4	R5	R6
70.03° EFFST	m	4.01	20.64	12.11	21.58	16.60	19.77
75° STEERED	(ft)	(13.2)	(67.7)	(39.7)	(70.8)	(54.5)	(64.9)

N_AC_040300_1_0020101_01_01

Minimum Turning Radii
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

4-4-0 Visibility from Cockpit in Static Position

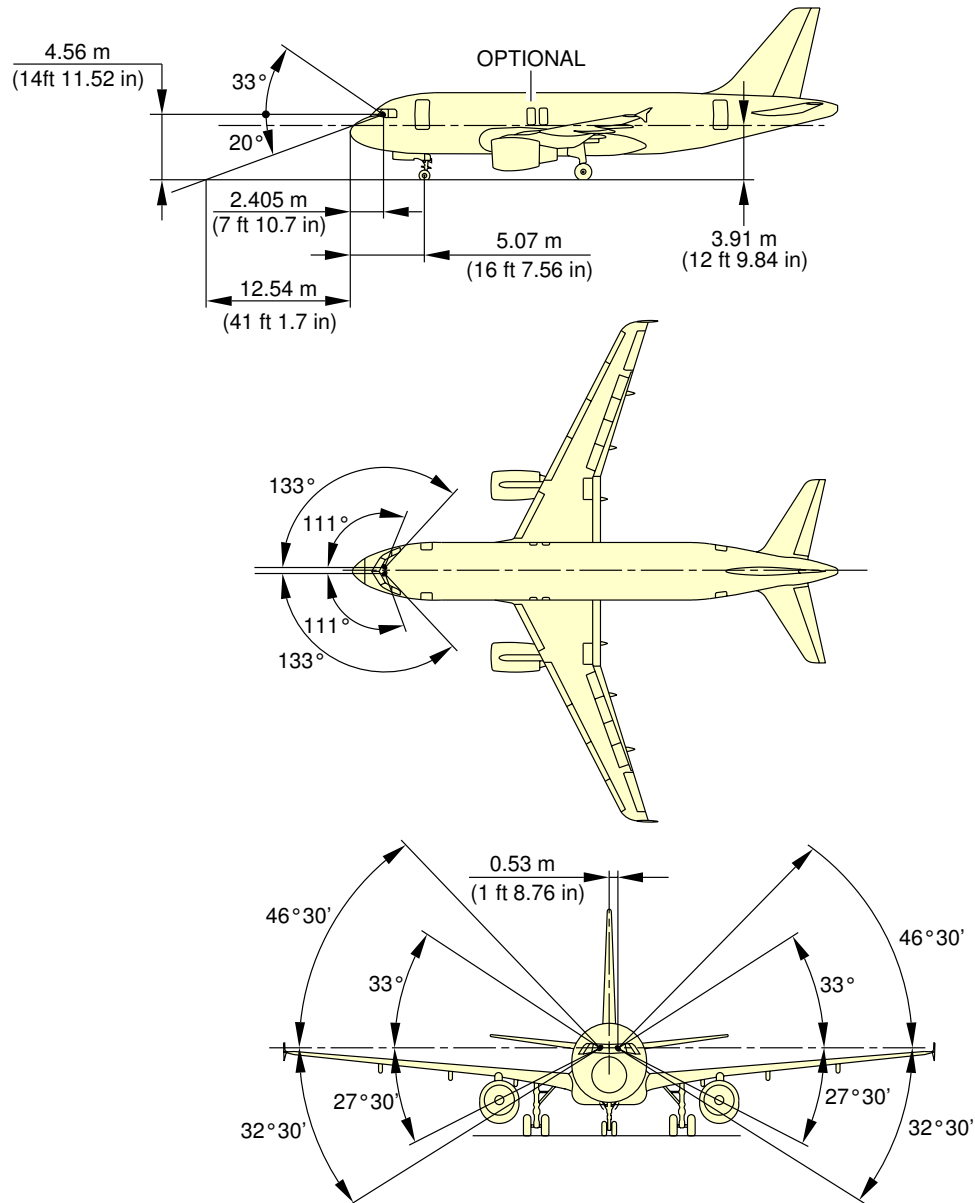
****ON A/C A319-100**

Visibility from Cockpit in Static Position

1. This section gives the visibility from cockpit in static position.

****ON A/C A319-100**

NOTE:
• PILOT'S EYE POSITION



N_AC_040400_1_0020101_01_02

Visibility from Cockpit in Static Position
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

4-5-0 Runway and Taxiway Turn Paths

****ON A/C A319-100**

Runway and Taxiway Turn Paths

1. Runway and Taxiway Turn Paths.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

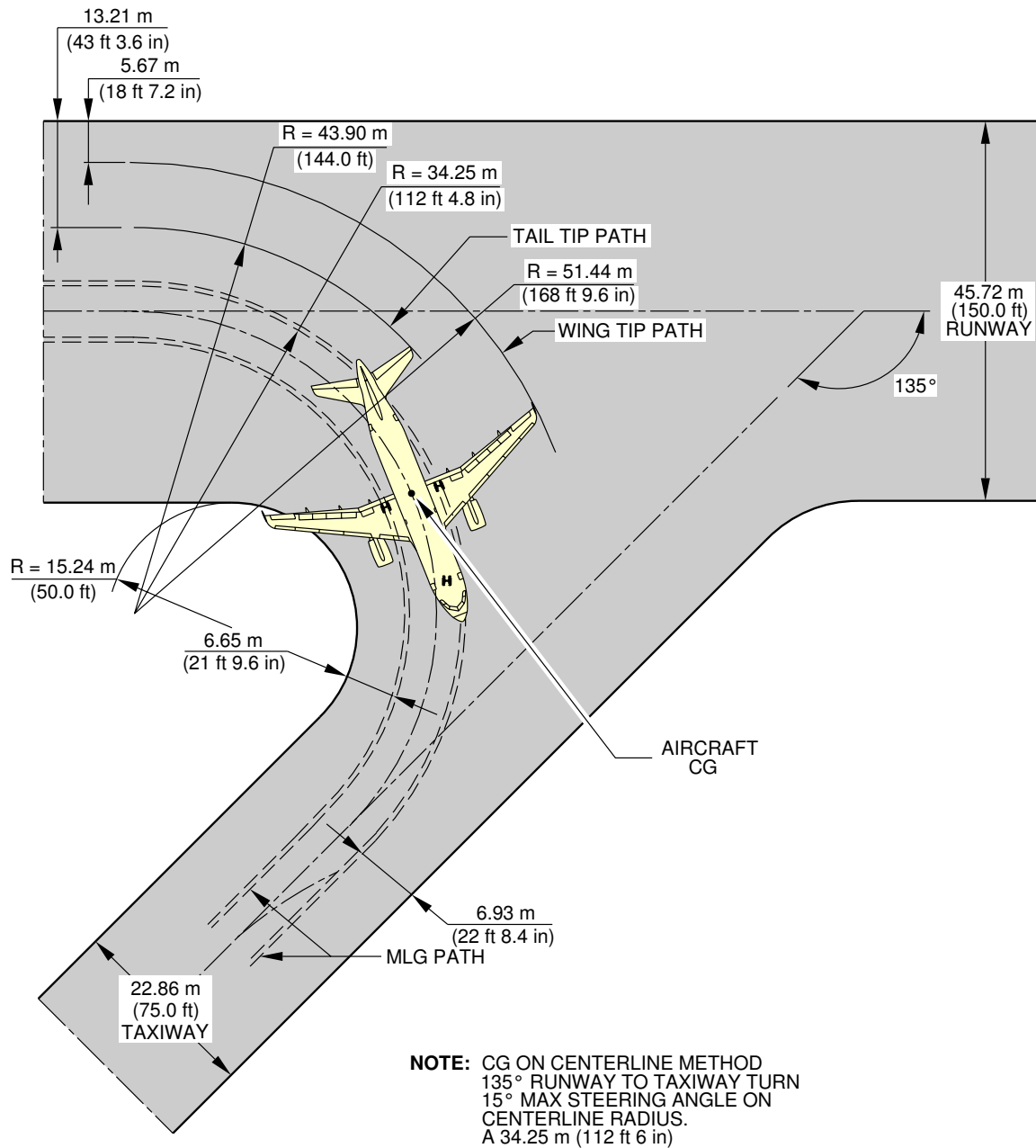
4-5-1 135 ° Turn - Runway to Taxiway

****ON A/C A319-100**

135 ° Turn - Runway to Taxiway

1. This section gives the 135 ° turn - runway to taxiway.

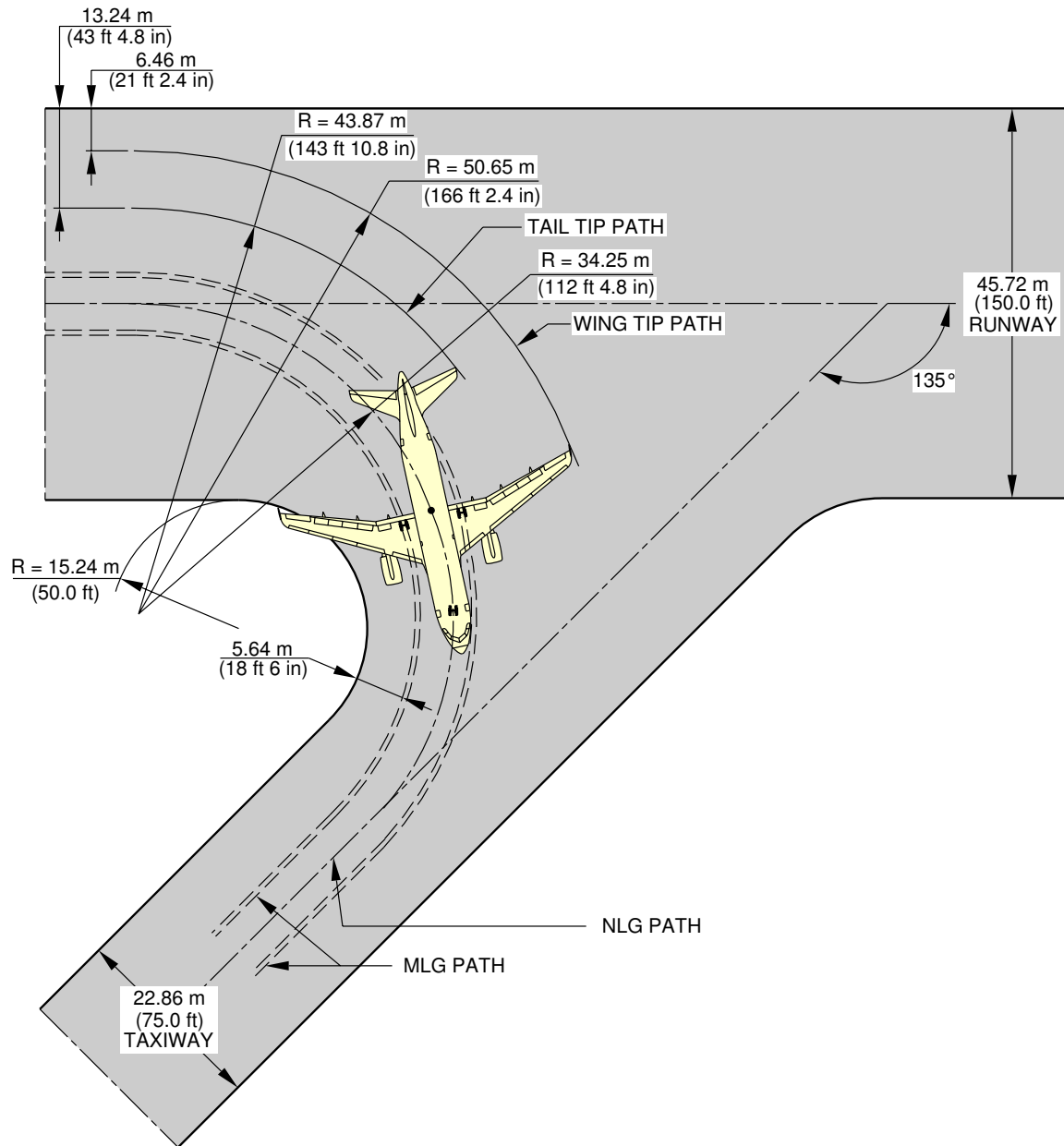
****ON A/C A319-100**



N_AC_040501_1_0020101_01_01

135° Turn - Runway to Taxiway
 CG on Centerline Method
 FIGURE 1

****ON A/C A319-100**



NOTE: NLG ON CENTERLINE METHOD 135° RUNWAY TO TAXIWAY TURN 15° MAX STEERING ANGLE ON A 34.25 m (112 ft 6 in) CENTERLINE RADIUS.

N_AC_040501_1_0030101_01_01

135° Turn - Runway to Taxiway
NLG on Centerline Method
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

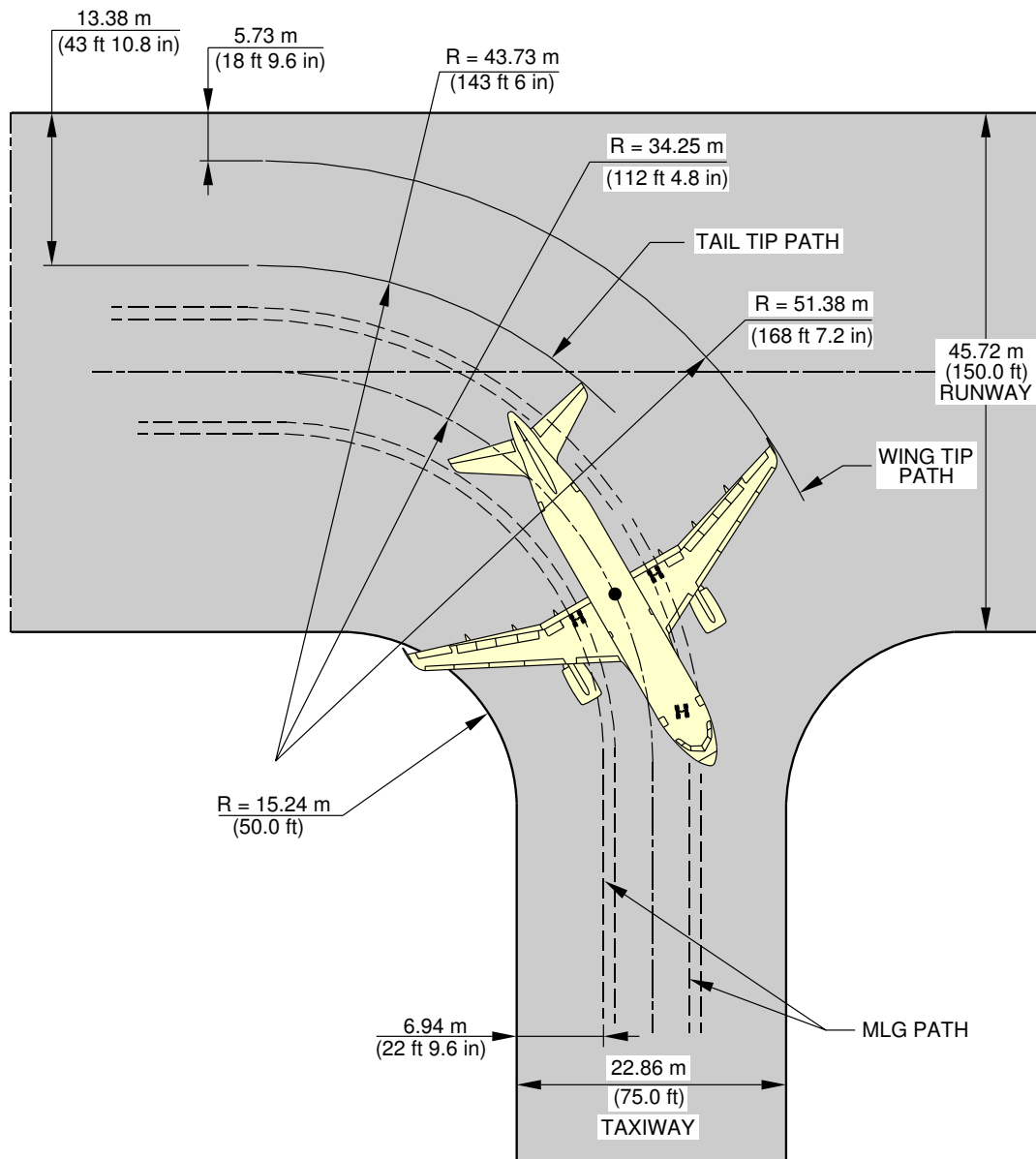
4-5-2 90 ° Turn - Runway to Taxiway

****ON A/C A319-100**

90 ° Turn - Runway to Taxiway

1. This section gives the 90 ° turn - runway to taxiway.

****ON A/C A319-100**

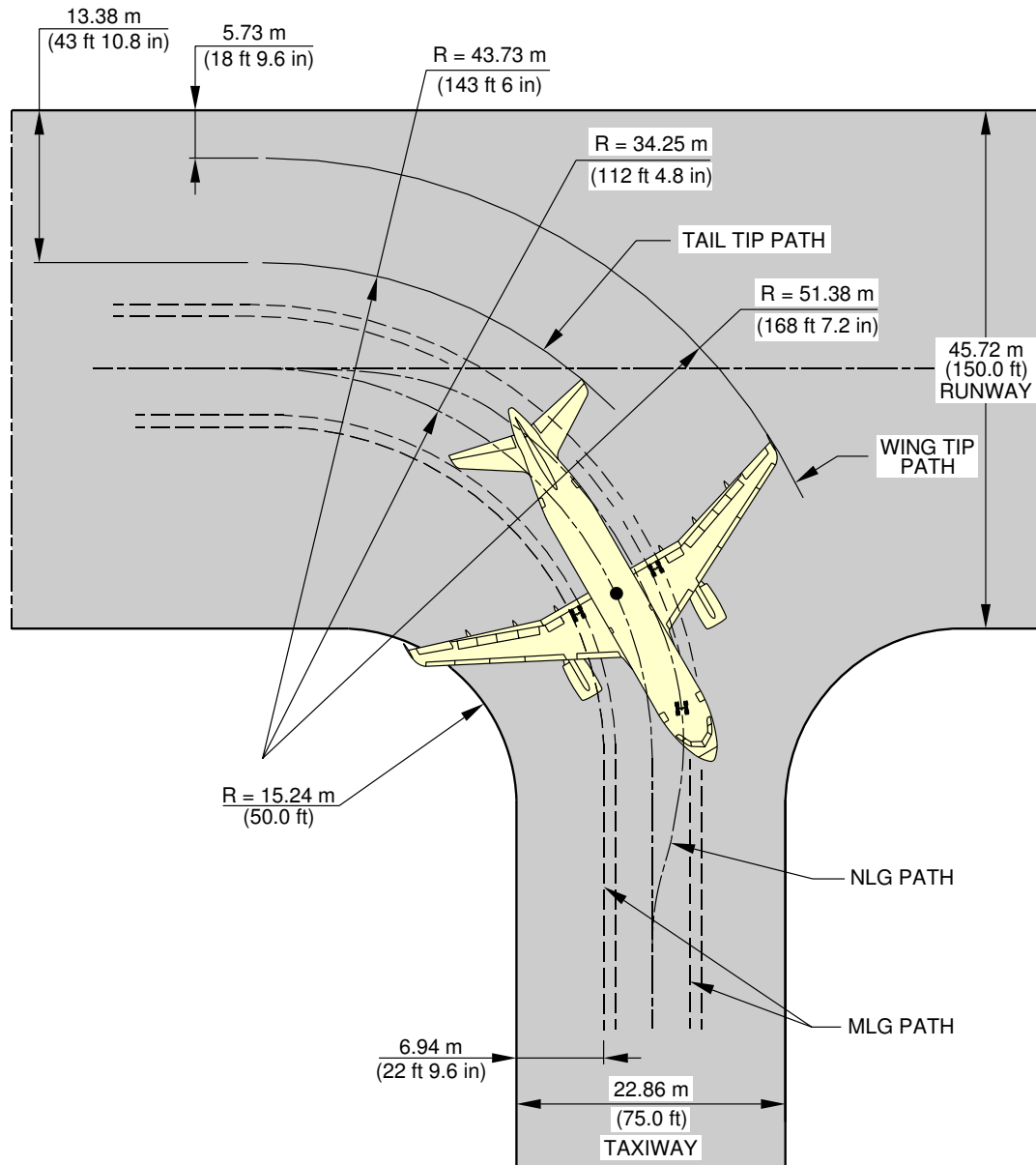


NOTE: C.G. ON CENTERLINE METHOD
 90° RUNWAY TO TAXIWAY TURN
 15° MAX. STEERING ANGLE
 ON A 34.25 m (112 ft 6 in) CENTERLINE RAD.

N_AC_040502_1_0020101_01_00

90° Turn - Runway to Taxiway
 CG on Centerline Method
 FIGURE 1

****ON A/C A319-100**



NOTE: NLG ON CENTERLINE METHOD
90° RUNWAY TO TAXIWAY TURN
15° MAX. STEERING ANGLE
ON A 34.25 m (112 ft 6 in) CENTERLINE RAD.

N_AC_040502_1_0030101_01_00

90° Turn - Runway to Taxiway
NLG on Centerline Method
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

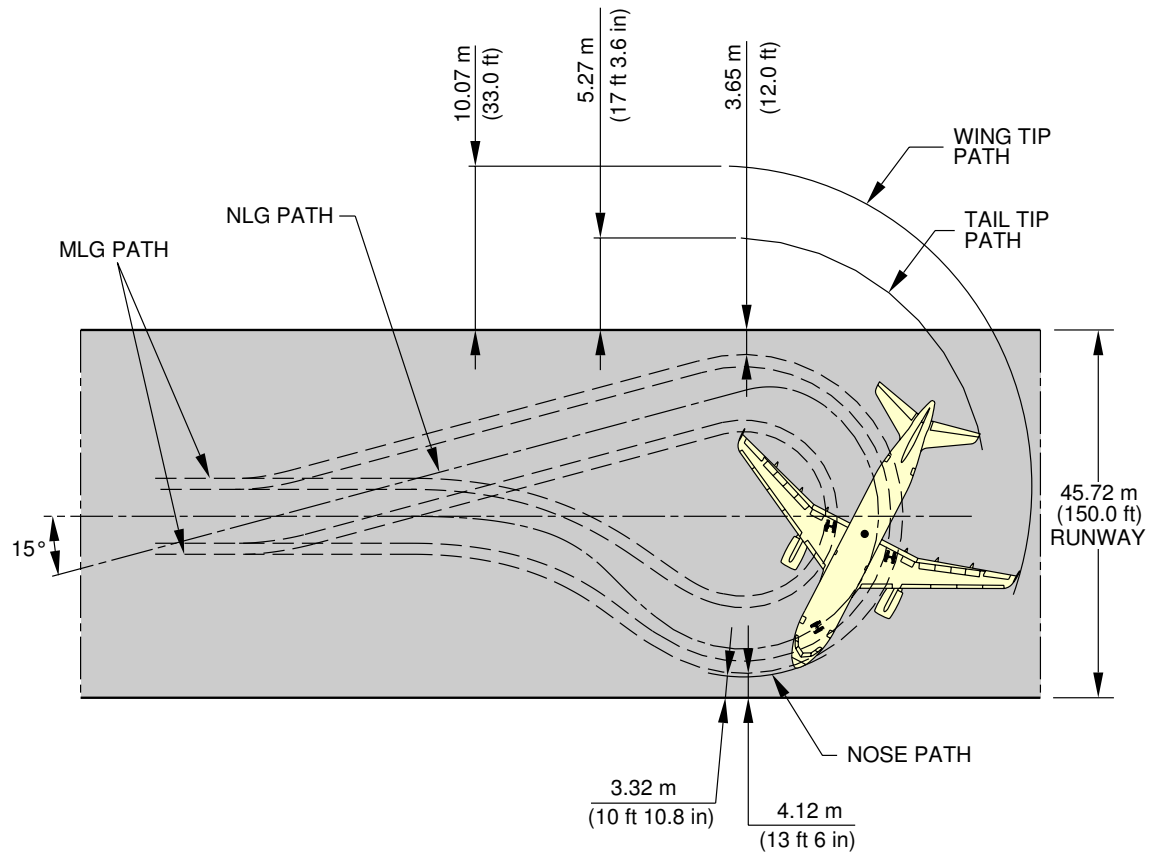
4-5-3 180° Turn on a Runway

****ON A/C A319-100**

180° Turn on a Runway

1. This section gives the 180° turn on a runway.

****ON A/C A319-100**



NOTE: NLG ON CENTERLINE METHOD.
180° ANGLED TURN ON A 150 ft RUNWAY.
40° MAX TURN ANGLE, 17.17 m (56 ft 4.08 in)
CENTERLINE RADIUS.

N_AC_040503_1_0010101_01_01

180° Turn on a 150 ft Runway
NLG on Centerline Method
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

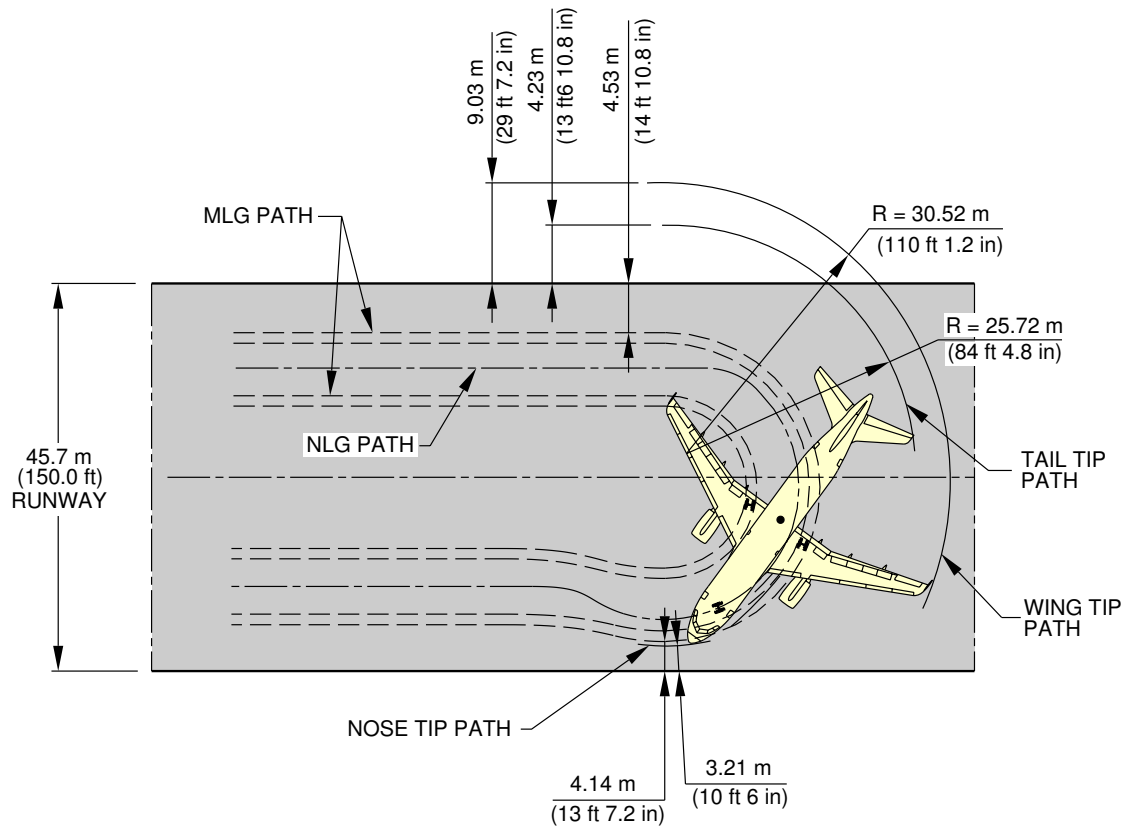
4-5-6 180 ° Turn on a Wide Runway

****ON A/C A319-100**

180 ° Turn on a Wide Runway

1. This section gives the 180 ° turn on a wide runway.

****ON A/C A319-100**



NOTE: EDGE OF RUNWAY METHOD.
180° PARALLEL TURN ON A 150 ft WIDE RUNWAY.
40° MAX. TURN ANGLE ON A 17.17 m (56 ft 4.08 in)
CENTERLINE RADIUS.

N_AC_040506_1_0020101_01_01

180° Parallel Turn on a 150 ft Wide Runway
Edge of Runway Method
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

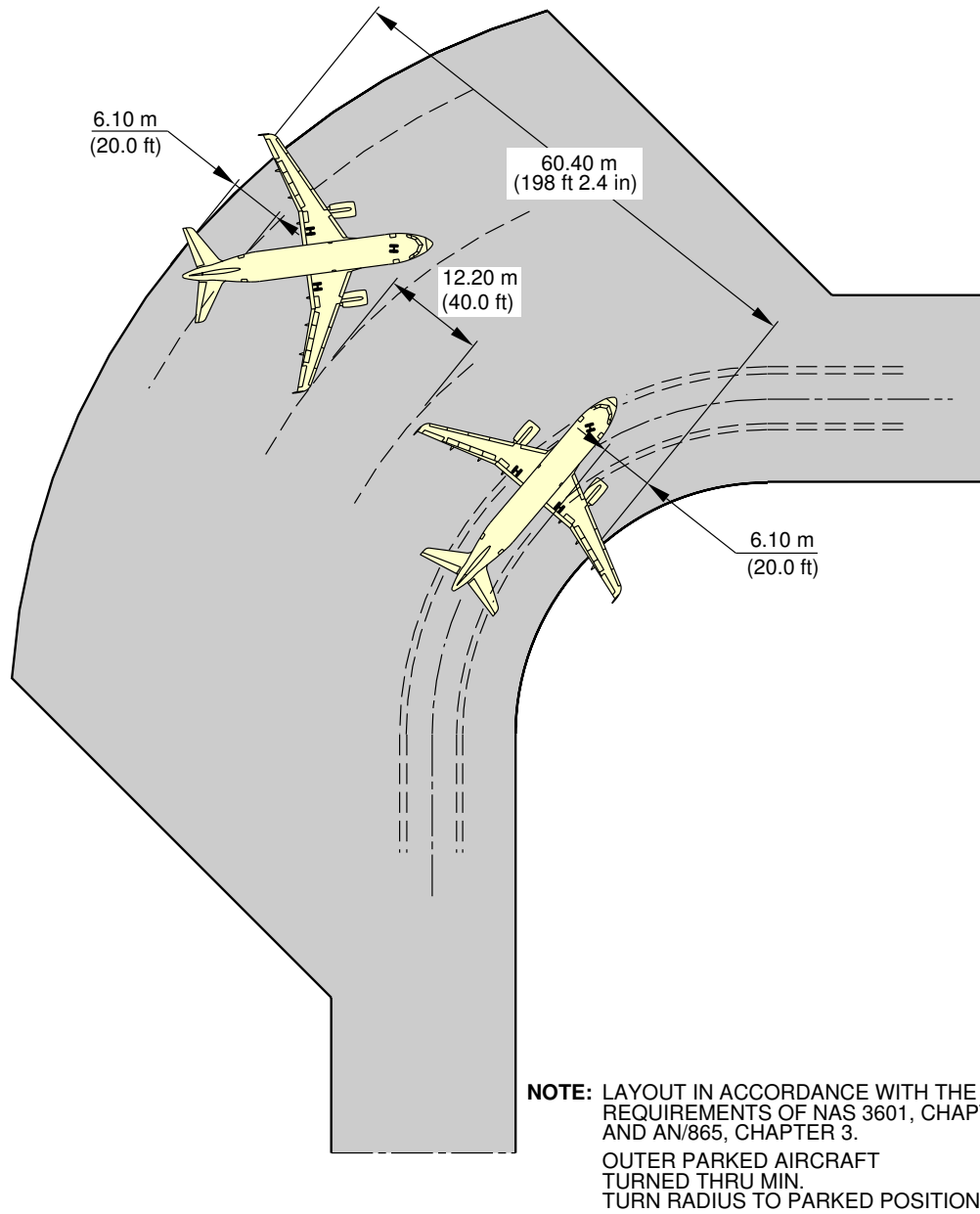
4-6-0 Runway Holding Bay (Apron)

****ON A/C A319-100**

Runway Holding Bay (Apron)

1. This section gives the runway holding bay (Apron).

****ON A/C A319-100**



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Runway Holding Bay (Apron)
 FIGURE 1

4-7-0 Airplane Parking

****ON A/C A319-100**

Airplane Parking

- The following figures and charts show the rectangular space required for parking against the terminal building.

AIRPLANE MODEL	MAX. EFF. STEERING	MIN. LINE UP DISTANCE	
90 ° TURN	ANGLE DEGREES	TODA m (ft)	ASDA m (ft)
A319	69	12.07 (39.6)	23.11 (75.8)

AIRPLANE MODEL	MIN. LINE UP DISTANCE		REQUIRED MIN. PAVEMENT WIDTH	NOMINAL LINE UP DISTANCE	
180 ° TURN	TODA m (ft)	ASDA m (ft)	m (ft)	TODA m (ft)	ASDA m (ft)
A319	15.34 (50.3)	26.38 (86.5)	27.4 (89.9)	21.58 (70.8)	32.62 (107.0)

Abbreviations:

- TODA (Take-Off Distance Adjustment)
- ASDA (Accelerate-Stop Distance Adjustment)

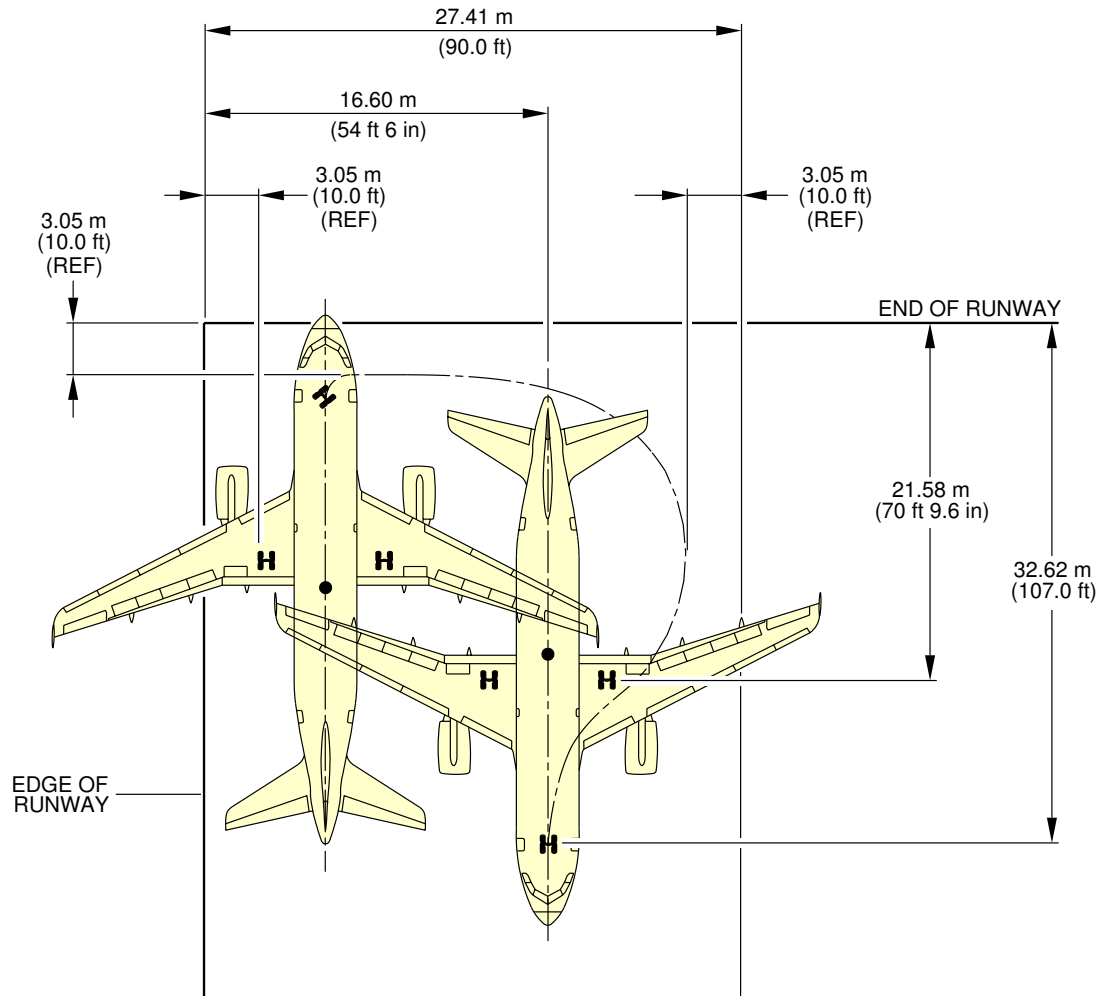
The diagram illustrates a runway layout with two aircraft, one oriented vertically and one horizontally. Key dimensions and labels include:

- Runway Width:** 60.00 m (196 ft 10.8 in)
- Edge of Runway:** Indicated by a vertical line on the left.
- End of Runway:** Indicated by a horizontal line at the bottom.
- Dimensions from Edge of Runway:**
 - 29.35 m (96 ft 3.6 in) to the top of the vertical aircraft.
 - 18.31 m (60.0 ft) to the top of the horizontal aircraft.
 - 3.05 m (10.0 ft) to the bottom of the horizontal aircraft.
- Dimensions from End of Runway:**
 - 3.05 m (10.0 ft) (REF) to the left edge of the horizontal aircraft.
 - 3.05 m (10.0 ft) (REF) to the left edge of the vertical aircraft.
- Other Labels:** "H" marks are placed at various points on the aircraft, and a dashed line indicates the centerline of the horizontal aircraft.

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4-7-0

****ON A/C A319-100**



NOTES: 69° STEERING AND NO SLIP ON NLG TIRES.

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Runway Length Alterations
Line Up Distances – 180° Turn
FIGURE 2

TERMINAL SERVICING**5-0-0 TERMINAL SERVICING******ON A/C A319-100****Terminal Servicing****1. General**

This chapter provides typical ramp layouts, corresponding minimum turnaround time estimations, locations of ground service points and service requirements.

The information given in this chapter reflects ideal conditions. Actual ramp layouts and service requirements may vary according to local regulations, airline procedures and the airplane condition.

- Section 5.1 shows typical ramp layouts for passenger aircraft at the gate or on an open apron.
- Section 5.2 shows the minimum turnaround schedules for full servicing arrangements.
- Section 5.3 shows the minimum turnaround schedule for reduced servicing arrangements.
- Section 5.4 gives the locations of ground service connections, the standard of connections used and typical capacities and requirements.
- Section 5.5 provides the engine starting pneumatic requirements for different engine types and different ambient temperatures.
- Section 5.6 provides the air conditioning requirements for heating and cooling (pull-down and pull-up) using ground conditioned air for different ambient temperatures.
- Section 5.7 provides the air conditioning requirements for heating and cooling to maintain a constant cabin air temperature using low pressure conditioned air.
- Section 5.8 shows the ground towing requirements taking into account different ground surface and aircraft conditions.

5-1-0 Airplane Servicing Arrangements****ON A/C A319-100****Airplane Servicing Arrangements****1. General**

This chapter provides typical ramp layouts, showing the various GSE items in position during typical turnaround scenarios for the passenger aircraft.

These ramp layouts show typical arrangements only. Each operator will have its own specific requirements/regulations for the positioning and operation on the ramp.

The associated turnaround chart for full servicing is given in section 5.2.

The associated turnaround chart for minimum servicing arrangement is given in section 5.3.

5-1-1 Symbols Used on Servicing Diagrams****ON A/C A319-100**Symbols Used on Servicing Diagrams

1. This table gives the symbols used on servicing diagrams.

Ground Support Equipment	
AC	AIR CONDITIONING UNIT
AS	AIR STARTING UNIT
BULK	BULK TRAIN
CAT	CATERING TRUCK
CB	CONVEYOR BELT
CLEAN	CLEANING TRUCK
FUEL	FUEL HYDRANT DISPENSER or TANKER
GPU	GROUND POWER UNIT
LD CL	LOWER DECK CARGO LOADER
LV	LAVATORY VEHICLE
PBB	PASSENGER BOARDING BRIDGE
PS	PASSENGER STAIRS
TOW	TOW TRACTOR
ULD	ULD TRAIN
WV	POTABLE WATER VEHICLE



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

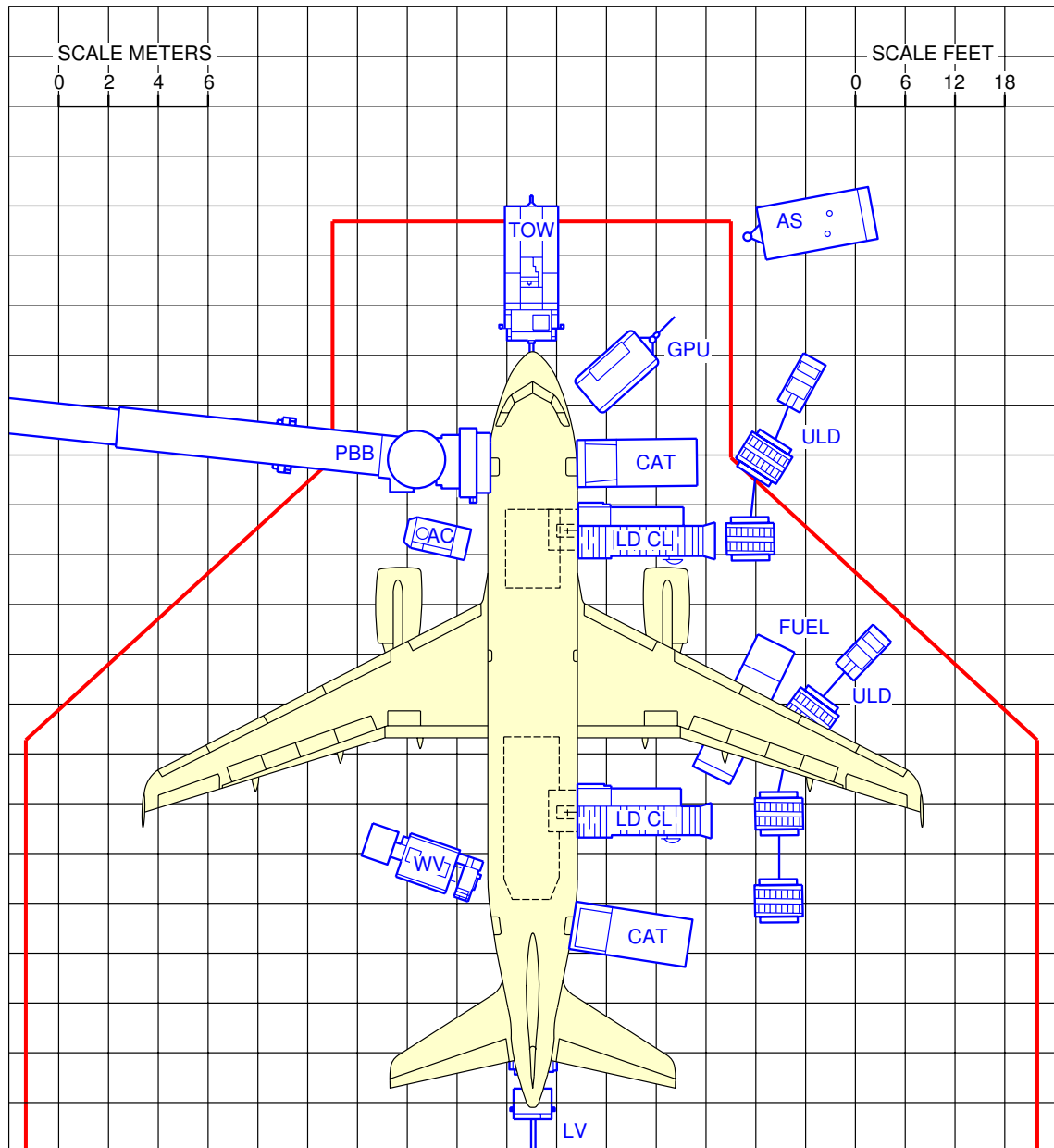
5-1-2 Typical Ramp Layout - Aircraft at the Gate

****ON A/C A319-100**

Aircraft at the Gate

1. This section gives the typical servicing arrangement for pax version (Passenger Bridge).

****ON A/C A319-100**



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Aircraft at the Gate
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

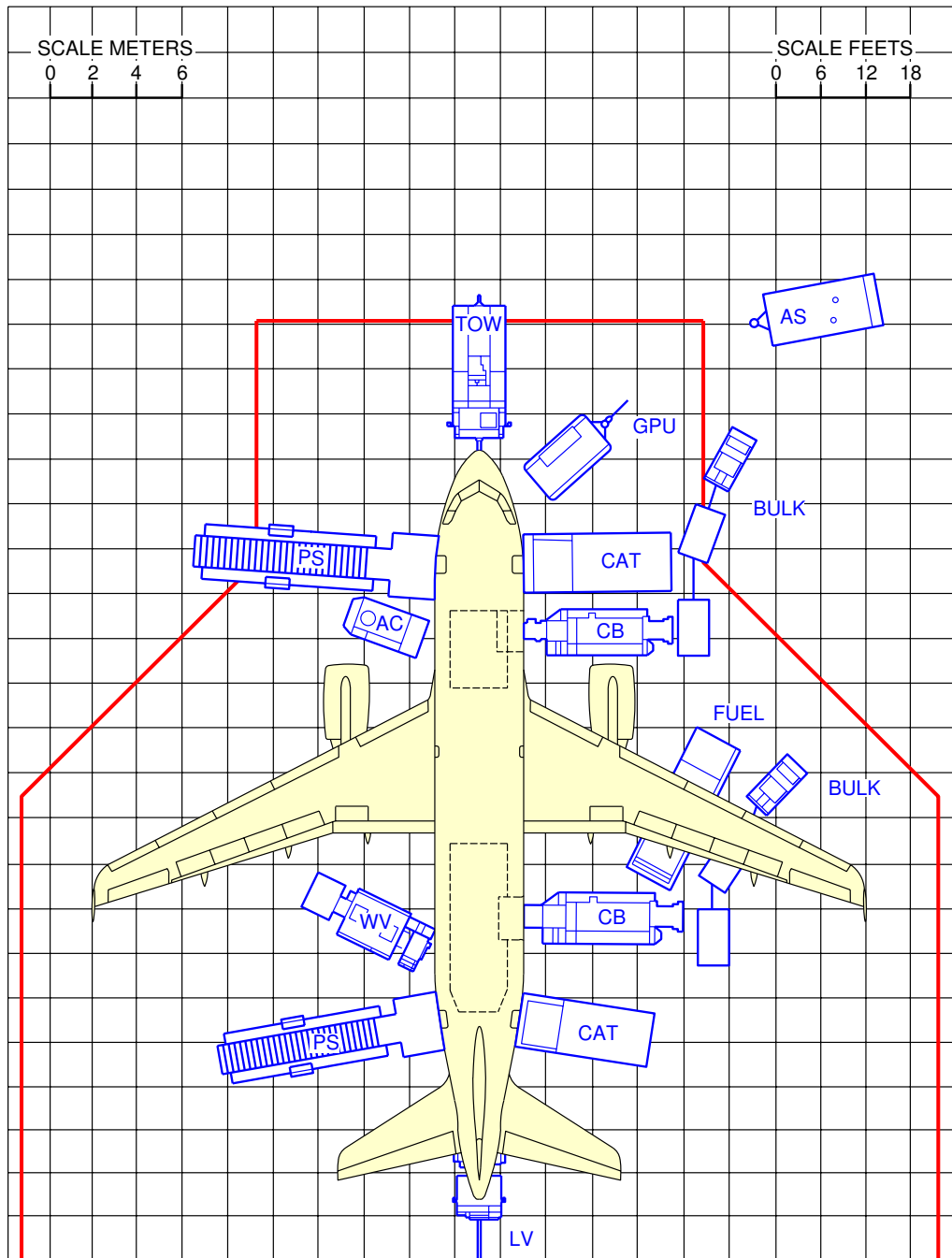
5-1-3 Typical Ramp Layout - Aircraft at an Open Apron

****ON A/C A319-100**

Aircraft at an Open Apron

1. This section gives the typical servicing arrangement for pax version (Open Apron).

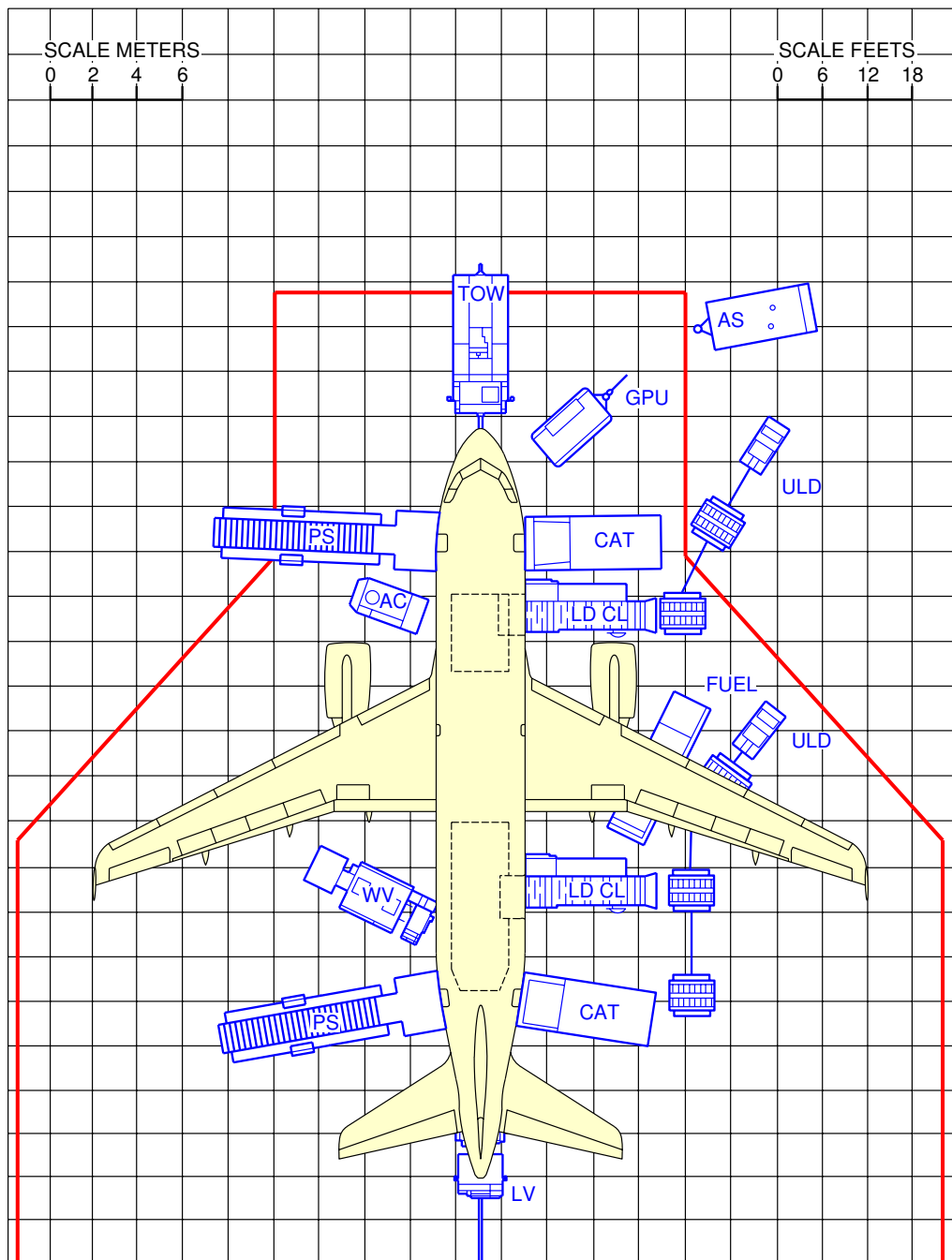
****ON A/C A319-100**



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Aircraft at an Open Apron
Aircraft at an Open Apron (Bulk Loading)
FIGURE 1

****ON A/C A319-100**



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Aircraft at an Open Apron
Aircraft at an Open Apron (ULD Loading)
FIGURE 2

5-2-0 Terminal Operations - Full Servicing Turnaround****ON A/C A319-100**Terminal Operations - Full Servicing Turnaround

1. This section provides a chart showing typical activities for full servicing turnaround.

These data are provided to show the general scope and type of activities involved in ramp operations during the turnaround of an aircraft.

Varying airline practices and operating circumstances may result in different sequences and different time intervals to do the activities shown.

5-2-1 Full Servicing Turnaround Charts****ON A/C A319-100**Full Servicing Turnaround Charts**1. Assumptions for 41 minutes turnaround chart - Full Servicing.**

Please note this turnaround time is an assumption regarding a given example.

A. Passenger handling: 124 pax / 1 bridge**(1) Deboarding**

- 1L:124
- 2L:0
- Deboarding rate: 22 pax / min per door.
- No PRM

(2) Boarding

- 1L:124
- 2L:0
- Boarding rate: 18 pax / min per door.
- No PRM

B. Catering: R1 - R 2 / sequential

- Galley M1: 4 FSTE
- Galley M2: 4 FSTE

C. Cleaning: Time available**D. Security/Safety checks: Yes (3 min each)**

- Cabin crew change: Yes (3min)

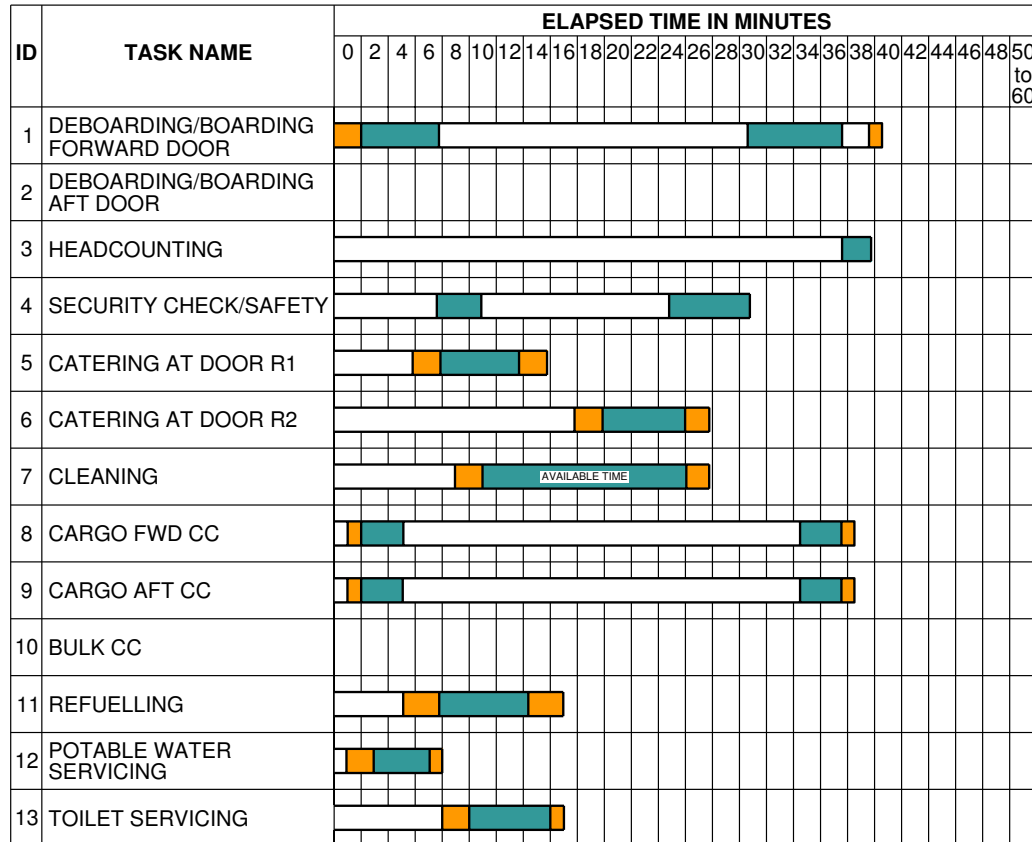
E. Cargo

- ULD only
- 2 Cargo loaders
- FWD compartment : 2 LD3
- AFT compartment : 2 LD3

F. Refuel: 5.2 tons, 6624 (l), 2 hoses (1 side)**G. Water servicing: 100%****H. Toilet servicing: 100%**

**ON A/C A319-100

TRT: 41 min



 GSE POSITIONING
 ACTIVITY

N_AC_050201_1_0030101_01_02

Turnaround Stations
Full Servicing (41 Min.)
FIGURE 1

5-3-0 Terminal Operation - Minimum Servicing Turnaround****ON A/C A319-100**Terminal Operation

1. This section provides a chart showing typical activities for minimum servicing turnaround.

These data are provided to show the general scope and type of activities involved in ramp operations during the turnaround of an aircraft.

Varying airline practices and operating circumstances may result in different sequences and different time intervals to do the activities shown.

5-3-1 Minimum Servicing Turnaround Chart****ON A/C A319-100**Minimum Servicing Turnaround Chart

1. Assumptions for 21 minutes turnaround chart - Minimum servicing.

Please note this turnaround time is an assumption regarding a given example.

A. Passenger handling: 156 pax / 2 stairways

(1) Deboarding

- 1L:78
- 2L:78
- Deboarding rate: 20 pax / min per door.
- No PRM

(2) Boarding

- 1L:78
- 2L:78
- Boarding rate: 15 pax / min per door.
- No PRM

B. Catering: No

- Galley M1:
- Galley M2:

C. Cleaning: No

D. Security/Safety checks: Yes (3 min each)

- Cabin crew change: No

E. Cargo

- ULD only
- 2 Cargo loaders
- FWD compartment bulk: 2 LD3
- AFT compartment bulk: 2 LD3

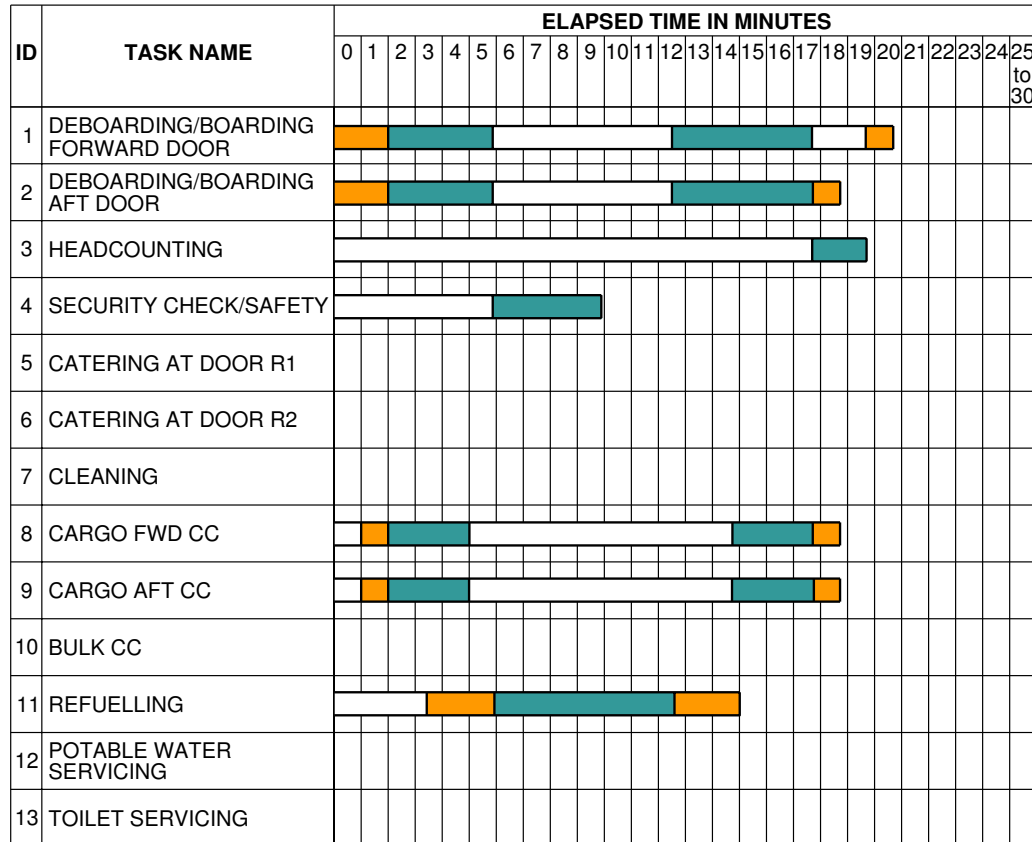
F. Refuel: 5.2 tons, 6624 (l), 2 hoses (1 side)

G. Water servicing: 0%:

H. Toilet servicing: 0%

****ON A/C A319-100**

TRT: 21 min



 GSE POSITIONING

 ACTIVITY

N_AC_050301_1_0020101_01_02

Turnaround Stations
Minimum Servicing (21 Min.)
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

5-4-0 Ground Service Connections

****ON A/C A319-100**

Ground Service Connections

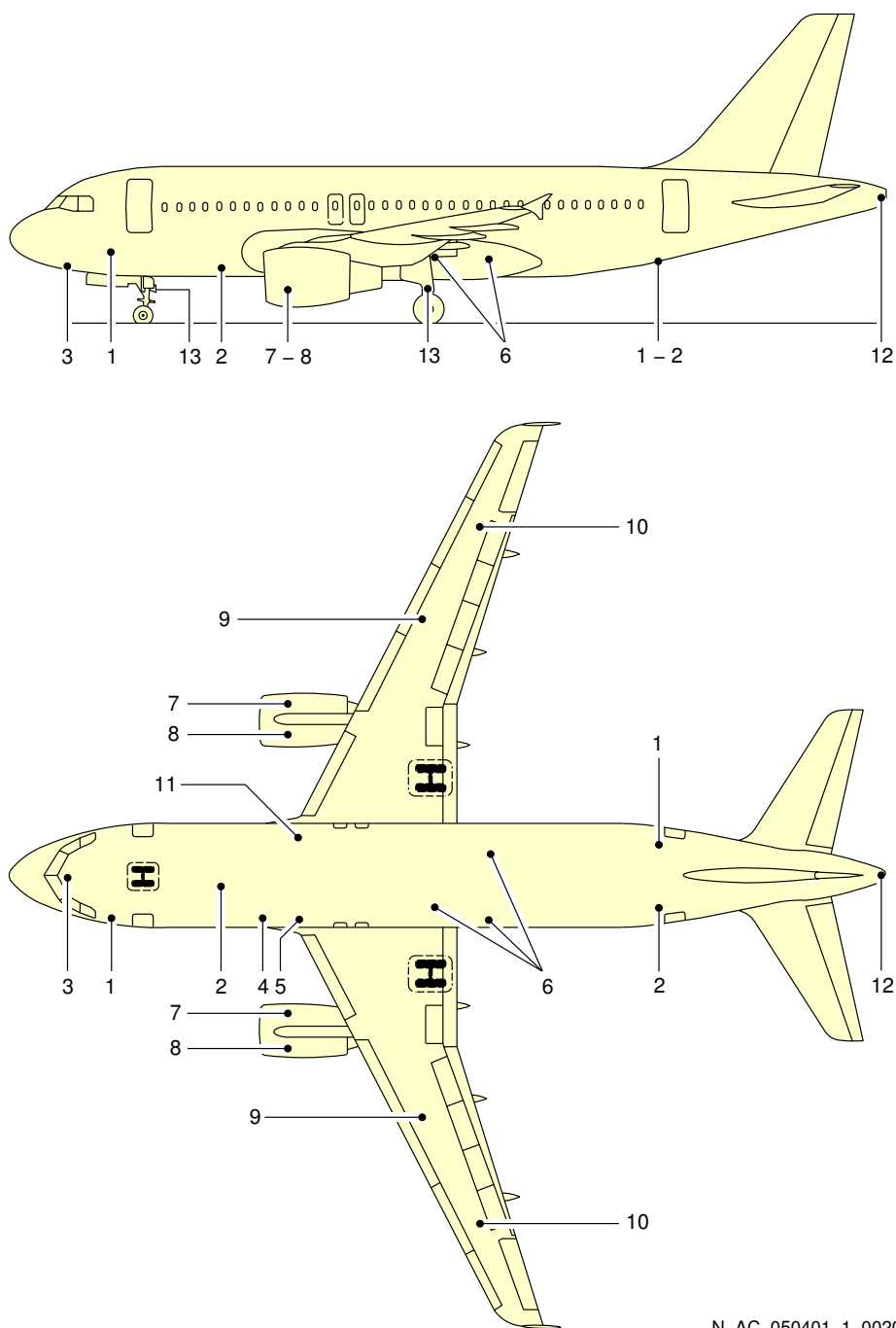
1. Ground Service Connections.

5-4-1 Ground Service Connections Layout****ON A/C A319-100**Ground Service Connections Layout

1. This section gives the ground service connections layout.

Ground Service Connections Layout	
1	– TOILET SERVICING
2	– WATER FILLING AND DRAINAGE
3	– GROUND ELECTRICAL POWER PANEL
4	– GROUND SERVICE CONDITIONED AIR CONNECTOR
5	– GROUND HP AIR CONDITIONING AND AIR START CONNECTOR
6	– HYDRAULIC CONNECTORS (GROUND SERVICE PANELS)
7	– IDG OIL FILLING CONNECTOR
8	– ENGINE OIL FILLING CONNECTOR
9	– REFUEL/DEFUEL CONNECTOR
10	– GRAVITY FILLING PANELS
11	– REFUEL/DEFUEL PANEL
12	– APU OIL FILLING CONNECTOR
13	– AIRCRAFT GROUNDING

****ON A/C A319-100**



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Ground Service Connections
Ground Service Connections Layout
FIGURE 1

5-4-2 Grounding Points

****ON A/C A319-100**

Grounding Points

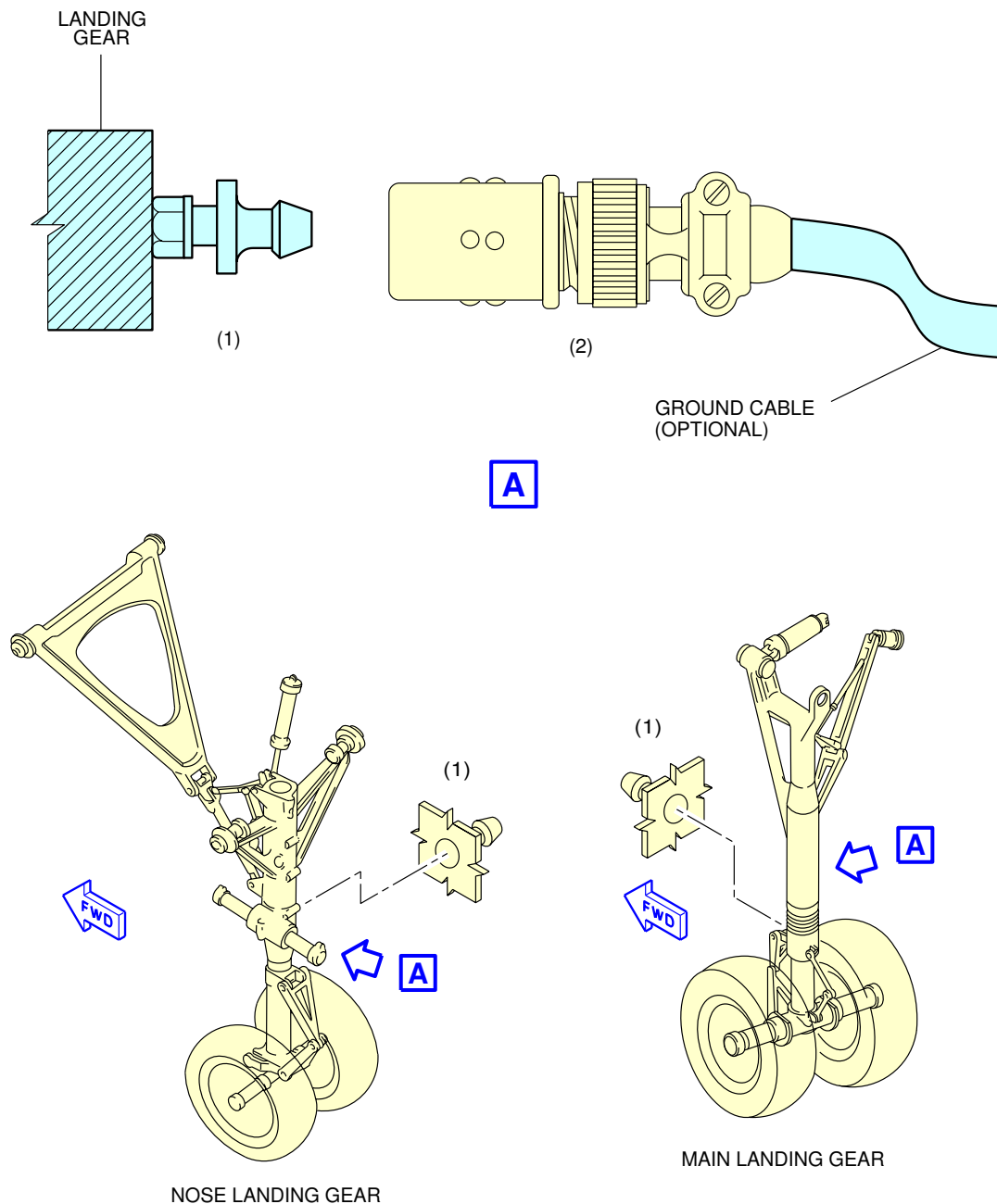
1. Grounding Points.

	DISTANCE: Meters (ft)			
	AFT OF NOSE	FROM AIRPLANE CENTERLINE		MEAN HEIGHT FROM GROUND
		R SIDE	L SIDE	
On Nose Landing Gear leg:	5.07 m (16.63 ft)	on centerline		0.94 m (3.08 ft)
On left Main Landing Gear leg:	16.11 m (52.85 ft)		3.79 m (12.43 ft)	1.07 m (3.51 ft)
On right Main Landing Gear leg:	16.11 m (52.85 ft)	3.79 m (12.43 ft)		1.07 m (3.51 ft)

- A. The grounding stud on each landing gear leg is designed for use with a clip-on connector (such as Appleton TGR).
- B. The grounding studs are used to connect the aircraft to an approved ground connection on the ramp or in the hangar for:
 - refuel/defuel operations,
 - maintenance operations,
 - bad weather conditions.

NOTE : In all other conditions, the electrostatic discharge through the tyre is sufficient.

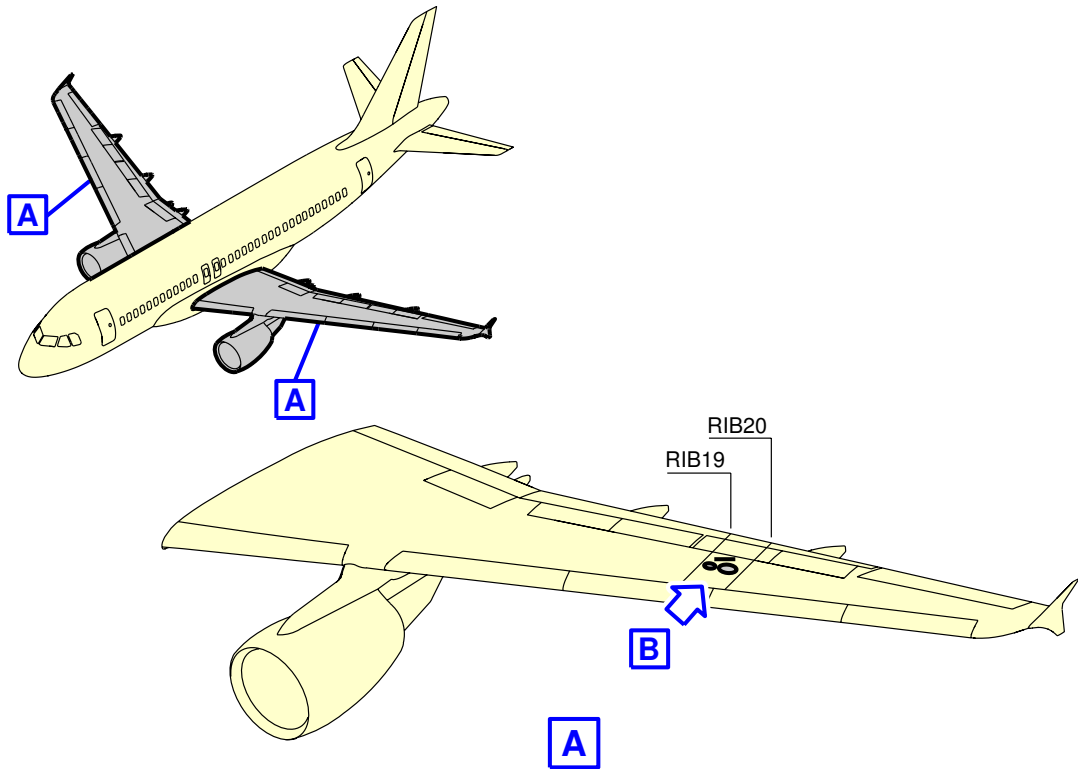
****ON A/C A319-100**



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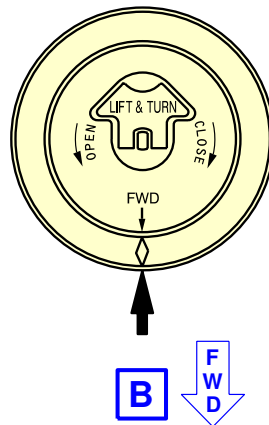
Ground Service Connections
Grounding Points
FIGURE 1

****ON A/C A319-100**



JET FUEL

FOR SPECIFICATIONS REFER
TO FLIGHT MANUAL



NOTE: R SIDE SYMMETRICAL

N_AC_050402_1_0040101_01_00

Ground Service Connections
Grounding Points
FIGURE 2

5-4-3 Hydraulic System

****ON A/C A319-100**

Hydraulic System

1. Access.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Green System: Access door 197CB	17.57 (57.64)	1.27 (4.17)		1.76 (5.77)
Yellow System: Access door 198CB	17.57 (57.64)		1.27 (4.17)	1.76 (5.77)
Blue System: Access door 197EB	18.92 (60.07)	1.27 (4.17)		1.76 (5.77)

NOTE : Distances are approximate.

2. Reservoir Pressurization.

On the air pressurization manifold:

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Access door 195AB	14.05 (46.1)		0.25 (0.82)	1.74 (5.71)

NOTE : Distances are approximate.

- One 1/4 in. AEROQUIP AE 96994E self-sealing connection common to the 3 reservoirs.

3. Accumulator Charging.

Four (MS28889-1) connections (one for each accumulator) for:

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Yellow System accumulator: Access door 196BB	14.5 (47.57)	0.25 (0.82)		1.99 (6.53)

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Green System accumulator: Left MLG door	15.67 (51.41)		0.25 (0.82)	3.2 (10.5)
Blue System accumulator: Access door 195BB	14.31 (46.95)		0.25 (0.82)	1.99 (6.53)
Yellow System braking accumulator: Access door 196BB	14.5 (47.57)	0.76 (2.49)		1.74 (5.71)

NOTE : Distances are approximate.

4. Reservoir Filling.

On the Green system ground service panel:

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Access door 197CB	17.57 (57.64)	1.27 (4.17)		1.76 (5.77)

NOTE : Distances are approximate.

One 1/4 in. AEROQUIP AE96993E self-sealing connection for pressurized supply.

One handpump filling connection for unpressurized (suction) supply.

5. Reservoir Drain.

On 3/8 in. self-sealing connection on reservoir for:

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Yellow System: Access door 196BB - 198CB	14.5 (47.57)	1.43 (4.69)		1.90 (6.23)
Green System: Left MLG door	15.67 (51.41)		1.27 (4.17)	2.61 (8.56)

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Blue System: Access door 197EB	18.92 (62.07)	1.27 (4.17)		1.76 (5.77)

NOTE : Distances are approximate.

On 3/8 in. self-sealing connection for the Blue system on:

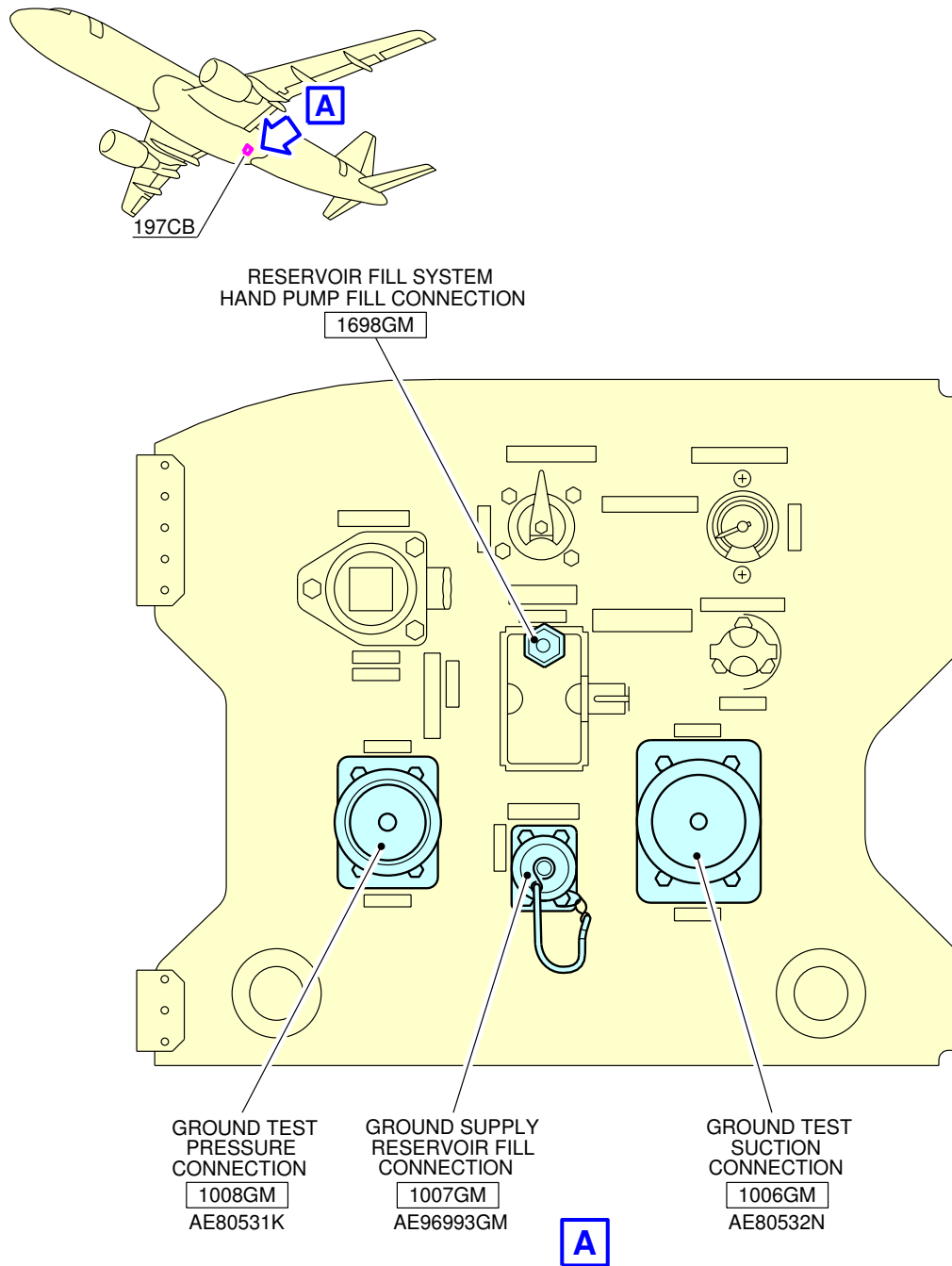
- Blue system ground service panel.

6. Ground Test.

On each ground service panel:

- One self-sealing connector AE80532N (suction).
- One self-sealing connector AE80531K (delivery).

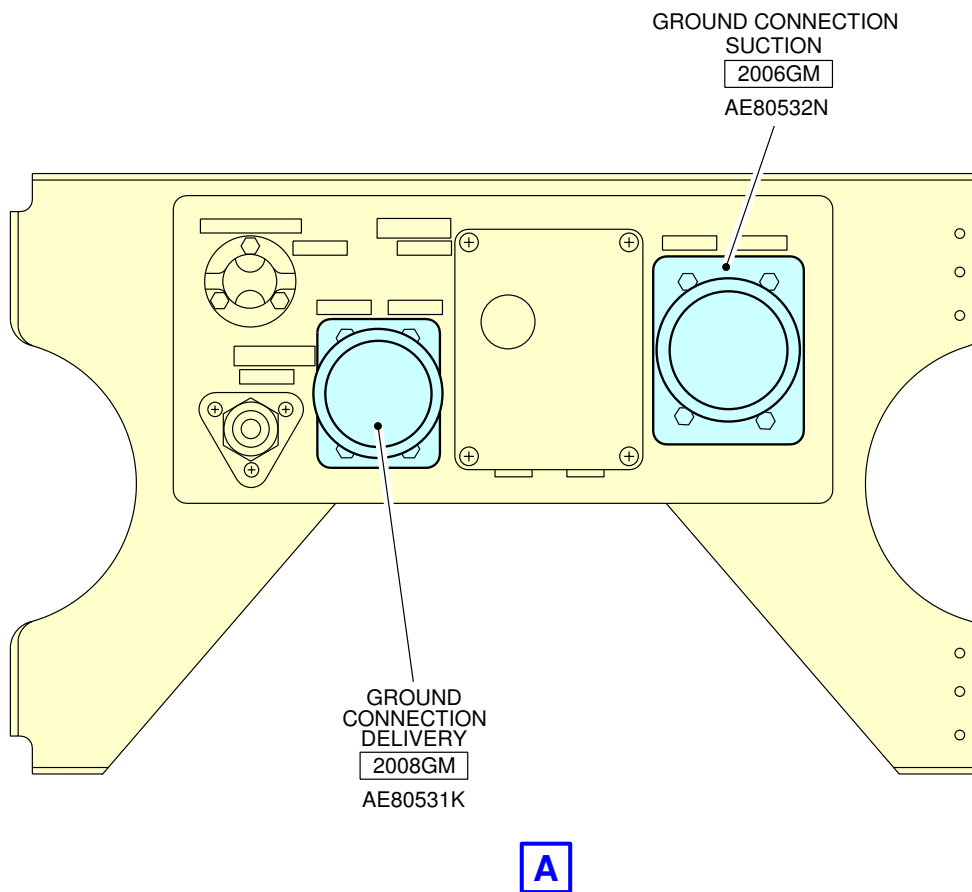
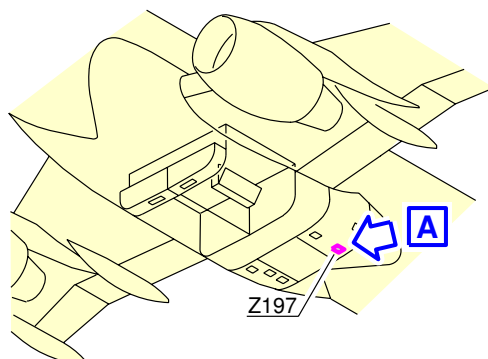
****ON A/C A319-100**



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Hydraulic System
Green System Ground Service Panel
FIGURE 1

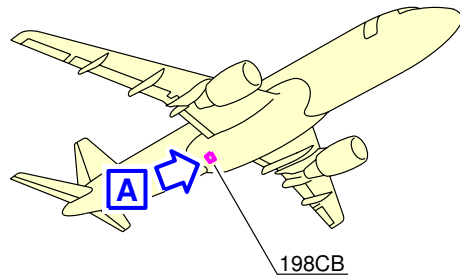
****ON A/C A319-100**



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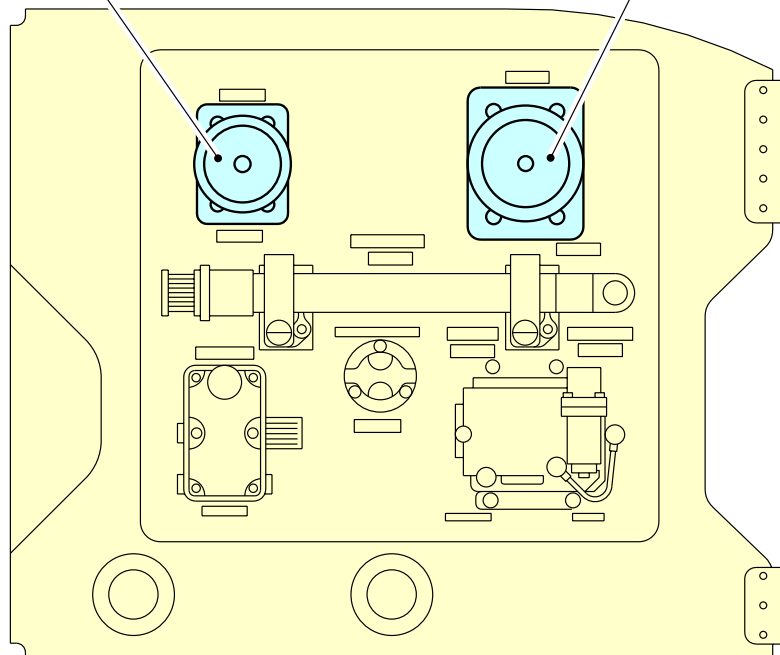
Hydraulic System
Blue System Ground Service Panel
FIGURE 2

****ON A/C A319-100**



GROUND TEST
PRESSURE CONNECTION
3008GM
AE80531K

GROUND TEST
SUCTION CONNECTION
3006GM
AE80532N



A

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Hydraulic System
Yellow System Ground Service Panel
FIGURE 3

5-4-4 Electrical System****ON A/C A319-100**Electrical System

1. Electrical System.

This chapter gives data related to the location of the ground service connections.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
A/C External Power: Access door 121AL	2.55 (8.37)	on centerline		2 (6.56)

NOTE : Distances are approximate.

2. Technical Specifications

This chapter gives data related to the location of the ground service connections.

A. External Power Receptacle:

- One MS90362-3 receptacle - 90 KVA.

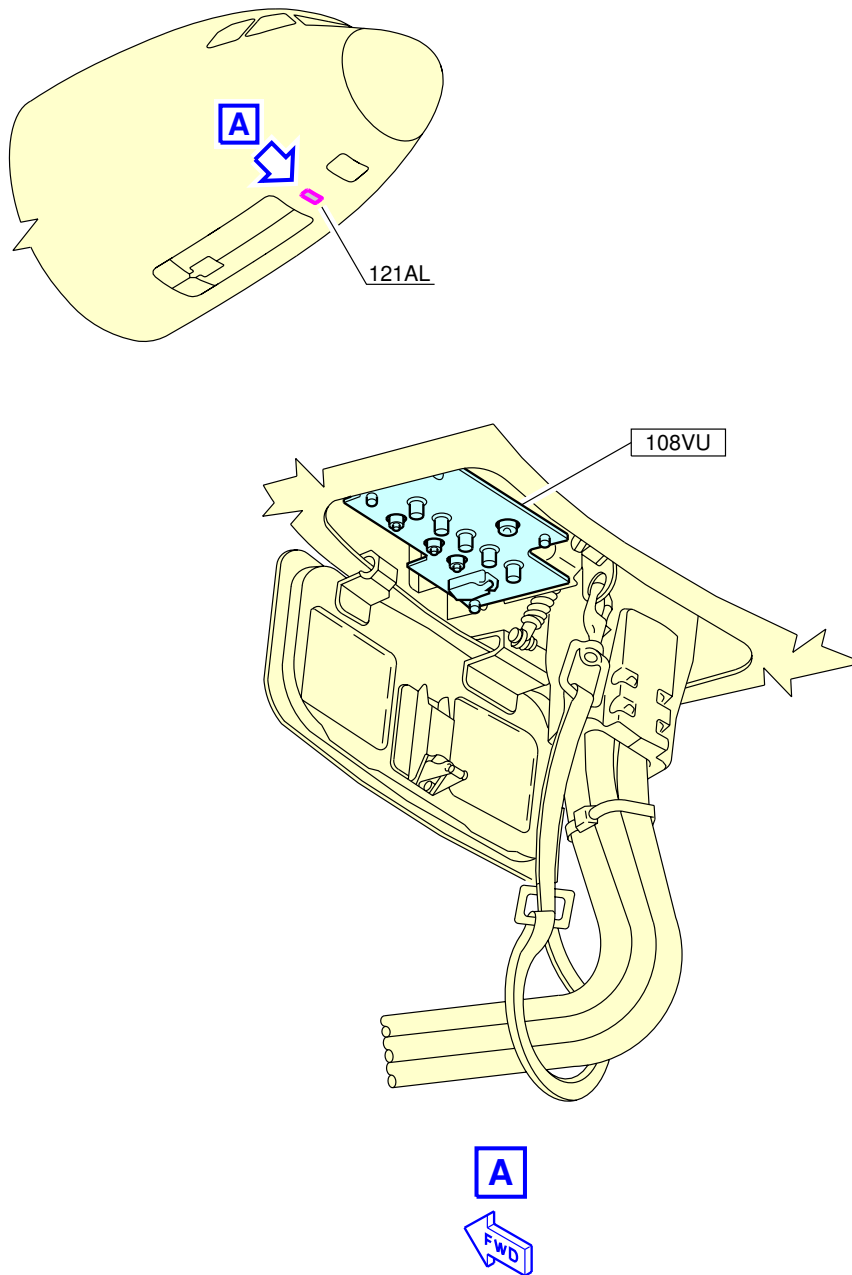
B. Power Supply:

- Three-phase, 400 Hz, 115/200V

C. Electrical connectors for servicing

- AC outlets: Hubbel 5258
- DC outlets: Hubbel 7472
- Vacuum cleaner outlets: Hubbel 5258

****ON A/C A319-100**



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Ground Service Connections
External Power Receptacles
FIGURE 1

5-4-5 Oxygen System****ON A/C A319-100**Oxygen System

1. Oxygen System.

	DISTANCE: Meters (ft)			
	AFT OF NOSE	FROM AIRPLANE CENTERLINE		MEAN HEIGHT FROM GROUND
		R SIDE	L SIDE	
One service connection (external charging in the avionics compartment) MS22066 Std.	3.45 m (11.32 ft)		1.15 m (3.77 ft)	2.60 m (8.53 ft)

3/8" UNF × 24 TPI

Nominal pressure: 1850 psi (127.55 bar)

Max fill pressure: 2035 psi (140.31 bar)

NOTE : Internal charging connection provided.

5-4-6 Fuel System

****ON A/C A319-100**

Fuel System

1. Refuel/Defuel Couplings.

This chapter gives data related to the location of the ground service connections.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Refuel/Defuel Integrated Panel: Access door 192MB	14.8 (48.56)		1.8 (5.91)	1.8 (5.91)
Refuel/defuel coupling, Left Access Door 522HB (Optional)	15.6 (51.18)	10 (32.81)		3.5 (11.48)
Refuel/defuel coupling, Right Access Door 622HB	15.6 (51.18)		10 (32.81)	3.5 (11.48)
Gravity Refuel Coupling	17.4 (57.09)	12.4 (40.68)	12.4 (40.68)	3.7 (12.14)

NOTE : Distances are approximate.

2. Technical Specifications

This chapter gives data related to the specifications of the ground service connections.

A. Refuel/defuel couplings:

- Right wing: one standard ISO R45, 2.5in.
- Left wing: one optional standard ISO R45, 2.5 in.

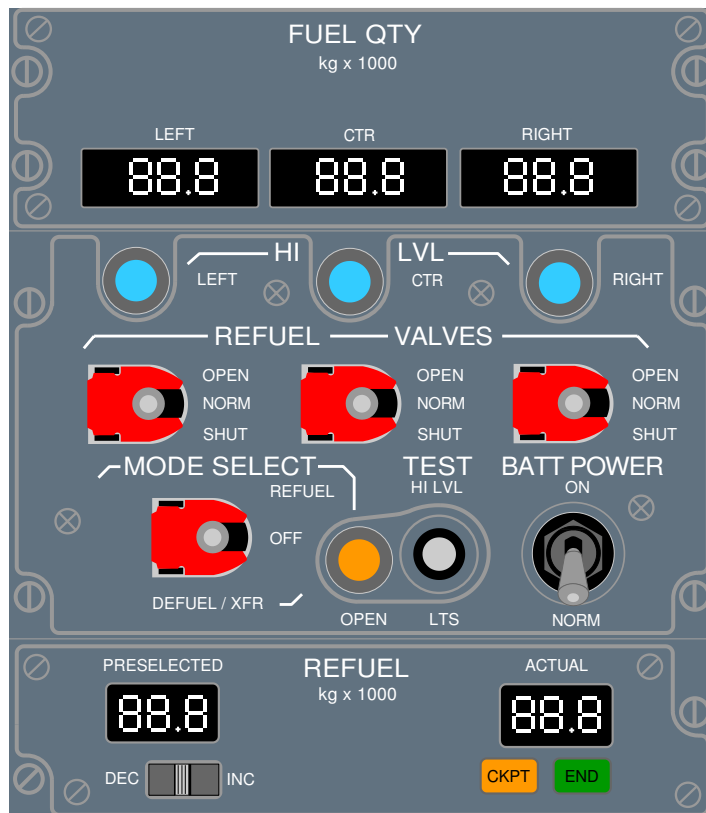
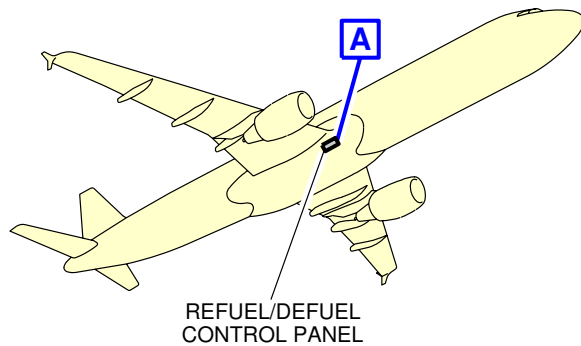
B. Refuel pressure:

- Maximum pressure: 3.45 bar (50 psi)

C. Refuel Flow:

- 1400 l/minute (369.84 US gal/minute)

****ON A/C A319-100**



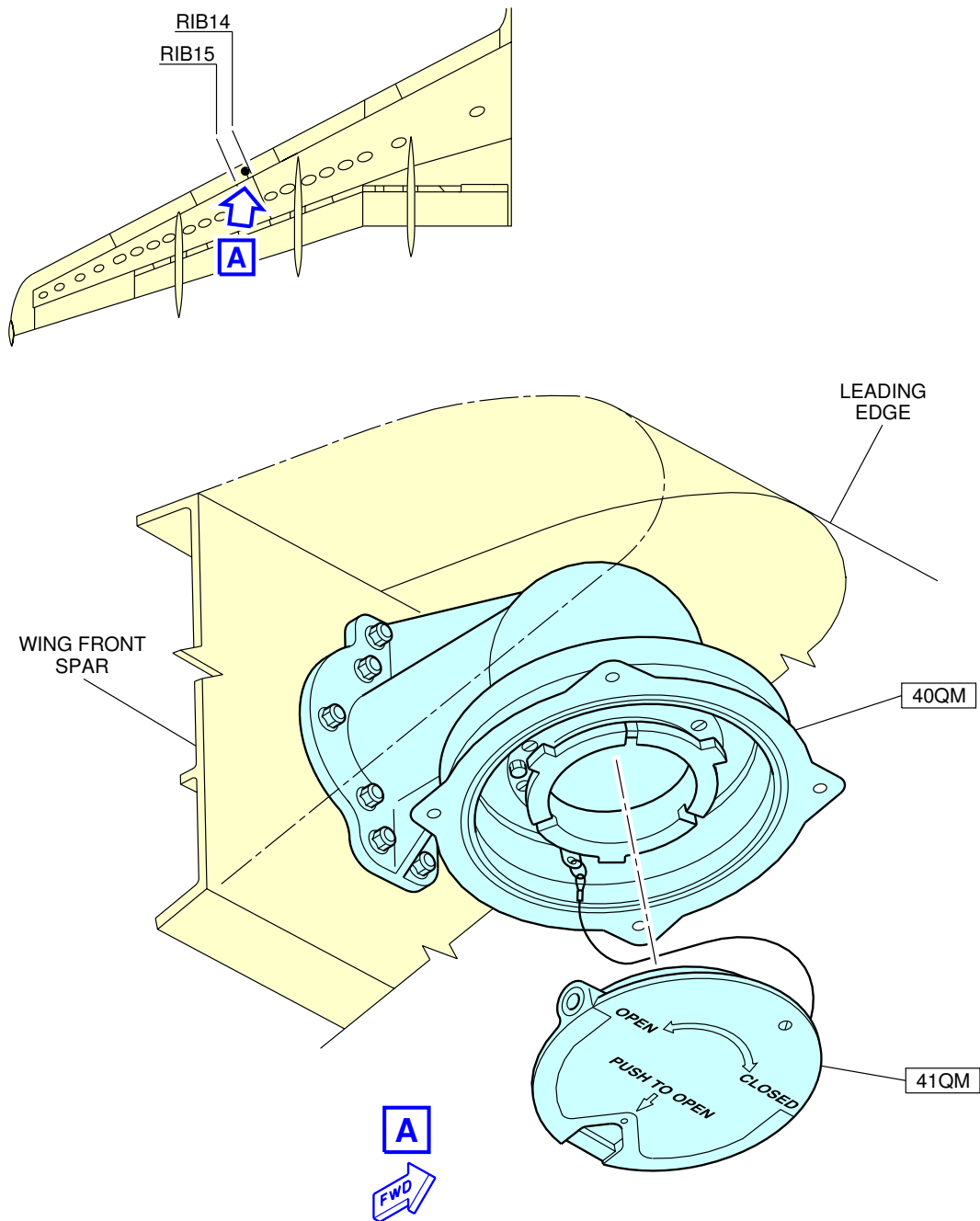
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NOTE: STANDARD CONFIGURATION OF REFUEL/DEFUEL PANEL.

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Ground Service Connections
Refuel/Defuel Panel
FIGURE 1

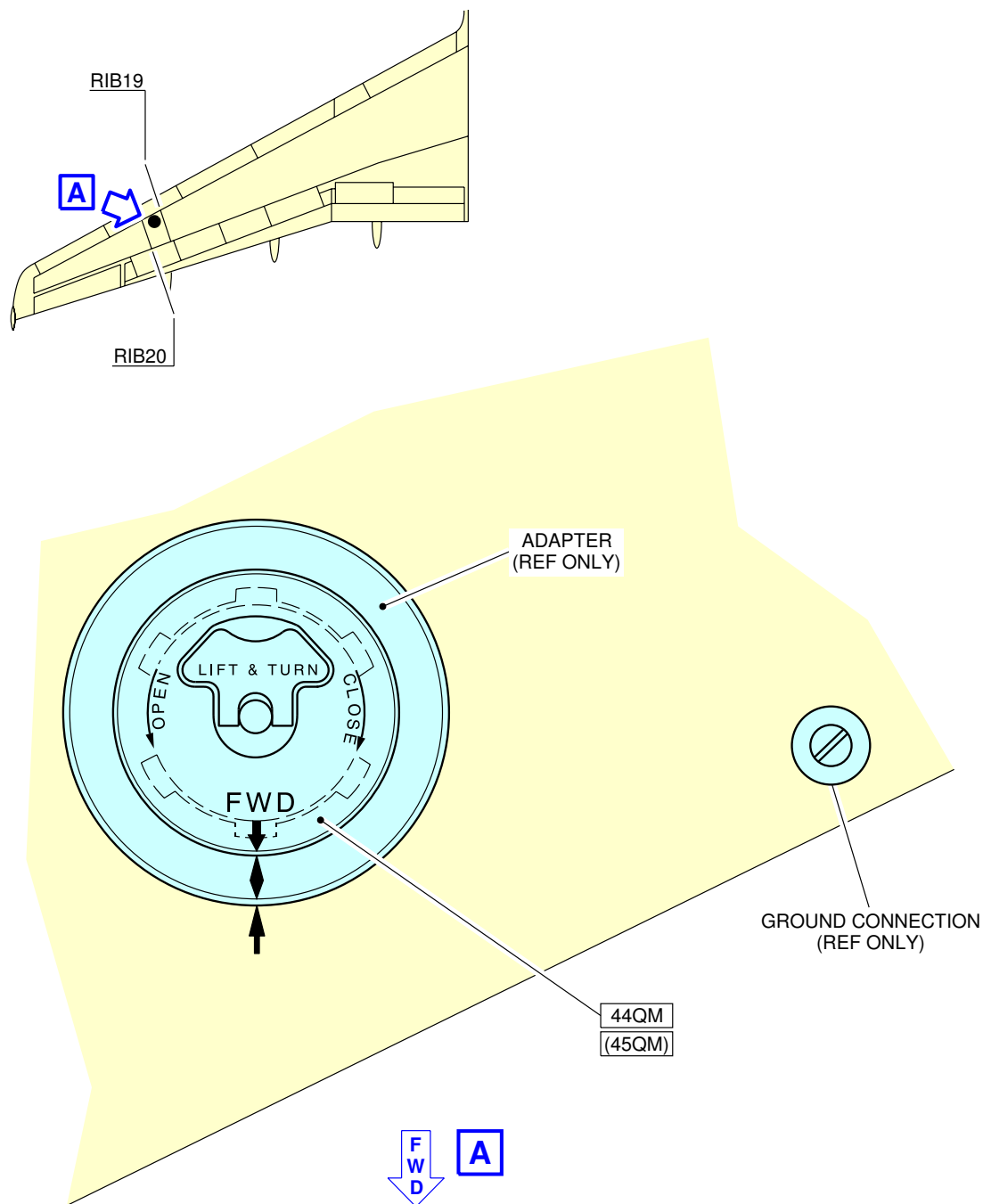
****ON A/C A319-100**



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Ground Service Connections
Refuel/Defuel Couplings
FIGURE 2

****ON A/C A319-100**



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Ground Service Connections
Gravity Refuel Couplings
FIGURE 3

5-4-7 Pneumatic System****ON A/C A319-100**Pneumatic System**1. High Pressure Air Connectors.**

This chapter gives data related to the location of the ground service connections.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
HP Connector Access door 191DB	11.38 (37.34)		0.84 (2.76)	1.76 (5.77)

NOTE : Distances are approximate.

A. Connector

- One standard 3 in. ISO TC20 connection (MS33740) for engine starting and cabin air preconditioning (HP) installed on the left side of the belly fairing

2. Low Pressure Air Connectors.

This chapter gives data related to the location of the ground service connections.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
LP Connector Access door 191CB	10.85 (35.6)		1.11 (3.64)	1.73 (5.68)

NOTE : Distances are approximate.

A. Connector:

- One standard 8 in. connection (SAE AS4262 type B) for cabin air preconditioning (LP) installed on the left side of the belly fairing

5-4-8 Potable Water System

****ON A/C A319-100**

Potable Water System

1. Potable Water Ground Service Panel.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Potable Water Ground Service Panel: Access door 171AL:	27.5 (90.22)		0.3 (0.98)	2.6 (8.53)

NOTE : Distances are approximate

2. Potable Water Ground Drain Panel.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		RH SIDE m (ft)	LH SIDE m (ft)	
Potable Water Ground Service Panel: Access door 133AL:	11.8 (38.71)		0.15 (0.49)	1.75 (5.74)

NOTE : Distances are approximate

3. Technical Specifications

A. Connectors:

- (1) On the potable ground service panel (Access Door 171AL)
 - Fill/Drain Nipple 3/4 in (ISO 17775).
 - One ground pressurization connector.
- (2) On drain panel (Access Door 133AL)
 - Drain Nipple 3/4 in (ISO 17775)

B. Usable capacity:

- Standard configuration - one tank:200 l (52.83 US gal)

C. Filling pressure:

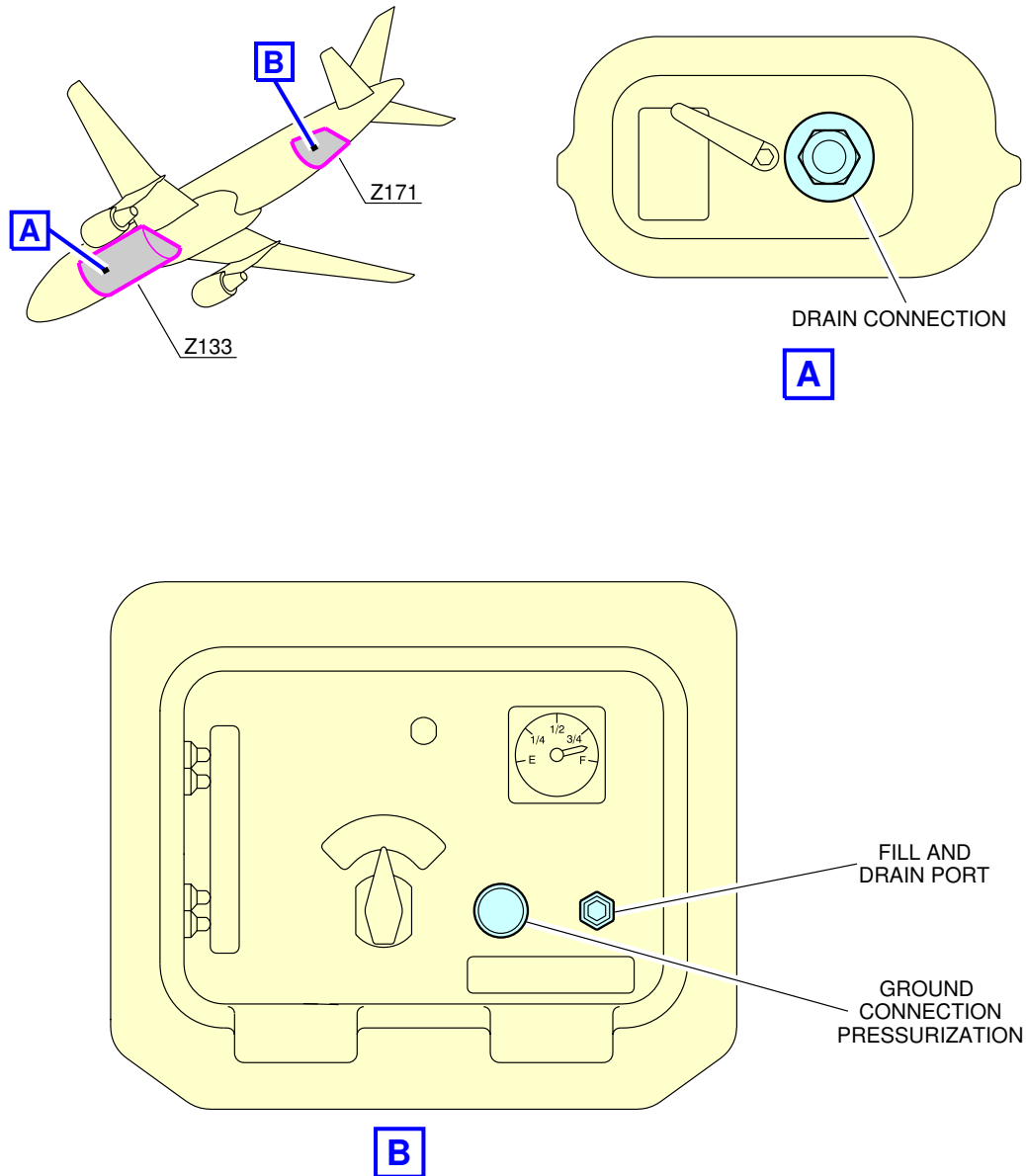
- 3.45 bar (50 psi).



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

- D. Typical flow rate:
- 50 l/min (13.21 US gal/min).

****ON A/C A319-100**



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Ground Service Connections
Potable Water Ground Service Panel
FIGURE 1

5-4-9 Oil System

****ON A/C A319-100**

Oil System

- Engine Oil Replenishment for CFM56 Series Engine (See FIGURE 5-4-9-991-001-A):
One gravity filling cap and one pressure filling connection per engine.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		ENGINE 1 (LH) m (ft)	ENGINE 2 (RH) m (ft)	
Engine Oil Gravity Filling Cap: Access door: 437BL (LH), 447BL (RH)	11.56 (37.79)	6.63 (21.75)	4.82 (15.81)	1.46 (4.79)
Engine Oil Pressure Filling Port:	11.4 (37.4)	6.49 (21.29)	4.74 (15.55)	1.42 (4.66)

NOTE : Distances are approximate

- Tank capacity:
 - Full level: 19.6 l (5.18 US gal)
 - Usable: 9.46 l (2.50 US gal)
 - Maximum delivery pressure required: 25 psi (1.72 bar)
Maximum delivery flow required: 180 l/h (47.55 US gal/h)
- IDG Oil Replenishment for CFM56 Series Engine (See FIGURE 5-4-9-991-002-A):
One pressure filling connection per engine: OMP 2506-18 plus one connection overflow: OMP 2505-18.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		ENGINE 1 (LH) m (ft)	ENGINE 2 (RH) m (ft)	
IDG Oil Pressure Filling Connection: Access door 438DR (LH), 448DR (RH)	10.6 (34.77)	6.9 (22.64)	5.52 (18.11)	0.68 (2.23)

NOTE : Distances are approximate

- A. Tank capacity: 5 l (1.32 US gal)
 - B. Delivery pressure required: 5 to 40 psi (0.34 to 2.76 bar) at the IDG inlet.
3. Starter Oil Replenishment for CFM56 Series Engine (See FIGURE 5-4-9-991-003-A):
One gravity filling cap per engine.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		ENGINE 1 (LH) m (ft)	ENGINE 2 (RH) m (ft)	
Starter Oil Filling Connection:	11.04 (37.4)	5.3 (17.39)	6.2 (20.34)	0.76 (2.49)

NOTE : Distances are approximate

- A. Tank capacity: 0.8 l (0.21 US gal)
4. Engine Oil Replenishment for IAE V2500 Series Engine (See FIGURE 5-4-9-991-004-B):
One gravity filling cap per engine.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		ENGINE 1 (LH) m (ft)	ENGINE 2 (RH) m (ft)	
Engine Oil Gravity Filling Cap: Access door 437BL (LH), 447BL (RH)	10.64 (34.9)	6.56 (21.52)	4.92 (16.14)	1.22 (4)

NOTE : Distances are approximate

- A. Tank capacity:
 - Full level: 28 l (7.4 US gal)
 - Usable: 23.50 l (6.21 US gal)
1. IDG Oil Replenishment for IAE V2500 Series Engine:
One pressure filling connection per engine: OMP 2506-2 plus one overflow connection: OMP 2505-2.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		ENGINE 1 (LH) m (ft)	ENGINE 2 (RH) m (ft)	
IDG Oil Pressure Filling Connection:	11.2 (36.74)	5.42 (17.78)	6.04 (19.81)	0.8 (2.62)

NOTE : Distances are approximate

A. Tank capacity: 4.1 l (1.08 US gal)

5. Starter Oil Replenishment for IAE V2500 Series Engine (See FIGURE 5-4-9-991-006-B):
One gravity filling cap per engine.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		ENGINE 1 (LH) m (ft)	ENGINE 2 (RH) m (ft)	
Starter Oil Filling Connection:	11.04 (37.4)	5.3 (17.39)	6.14 (20.14)	0.75 (2.46)

NOTE : Distances are approximate

A. Tank capacity: 0.35 l (0.09 US gal)

6. APU Oil System (See FIGURE 5-4-9-991-007-A):
APU oil gravity filling cap.

	AFT OF NOSE m (ft)	FROM AIRPLANE CENTERLINE (LEFT HAND) m (ft)	MEAN HEIGHT FROM GROUND m (ft)
GTCP 36-300	31.76 (104.19)	0.3 (0.98)	4.83 (15.85)
APS 3200	31.76 (104.19)	0.3 (0.98)	4.78 (15.68)
131-9	31.66 (103.87)	0.35 (1.15)	4.32 (14.17)

NOTE : Distances are approximate

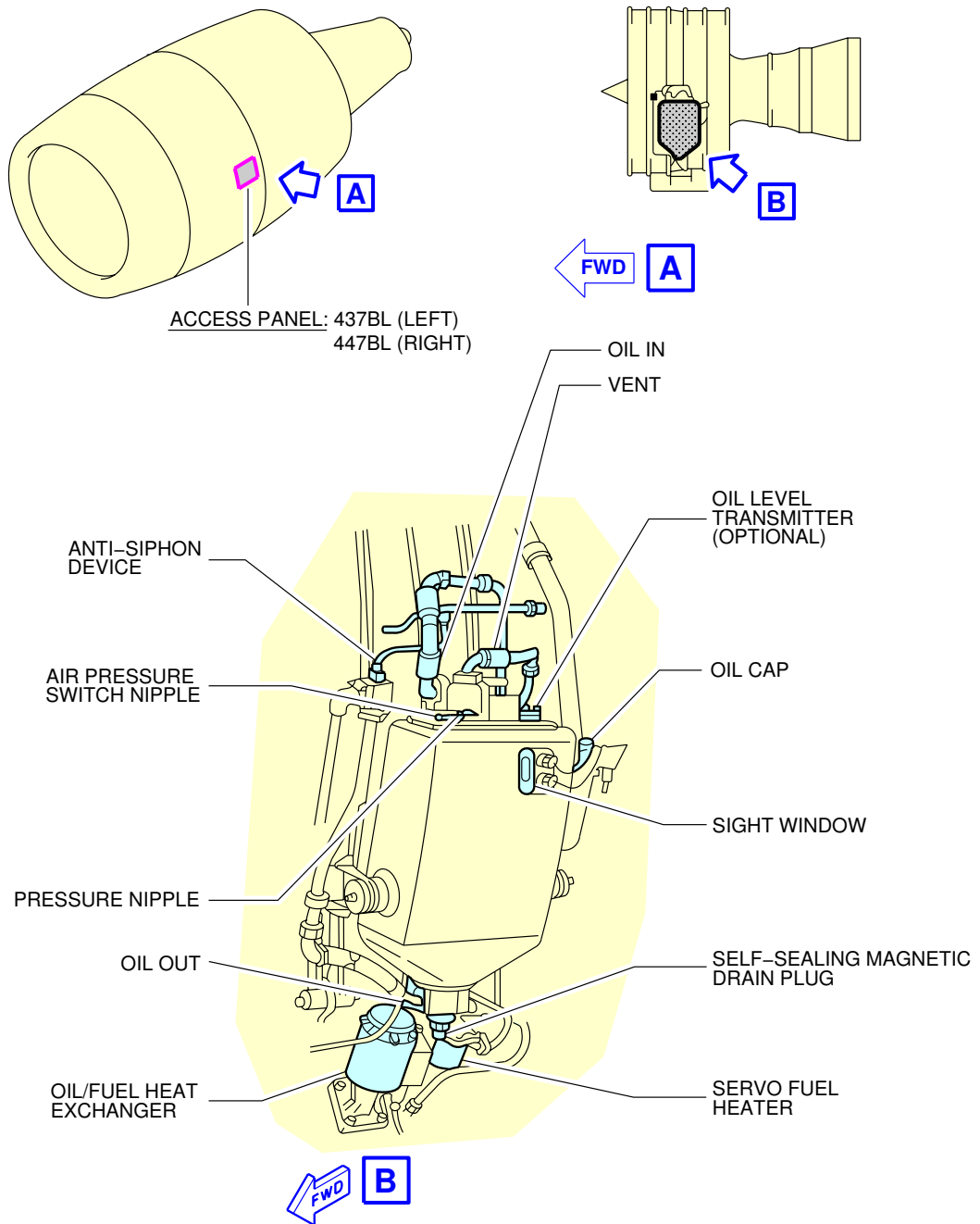
- A. Tank capacity (usable):
- APU type GTCP 36-300: 6.20 l (1.64 US gal)
 - APU type APS 3200: 5.40 l (1.43 US gal)



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

- APU type 131-9: 6.25 l (1.65 US gal)

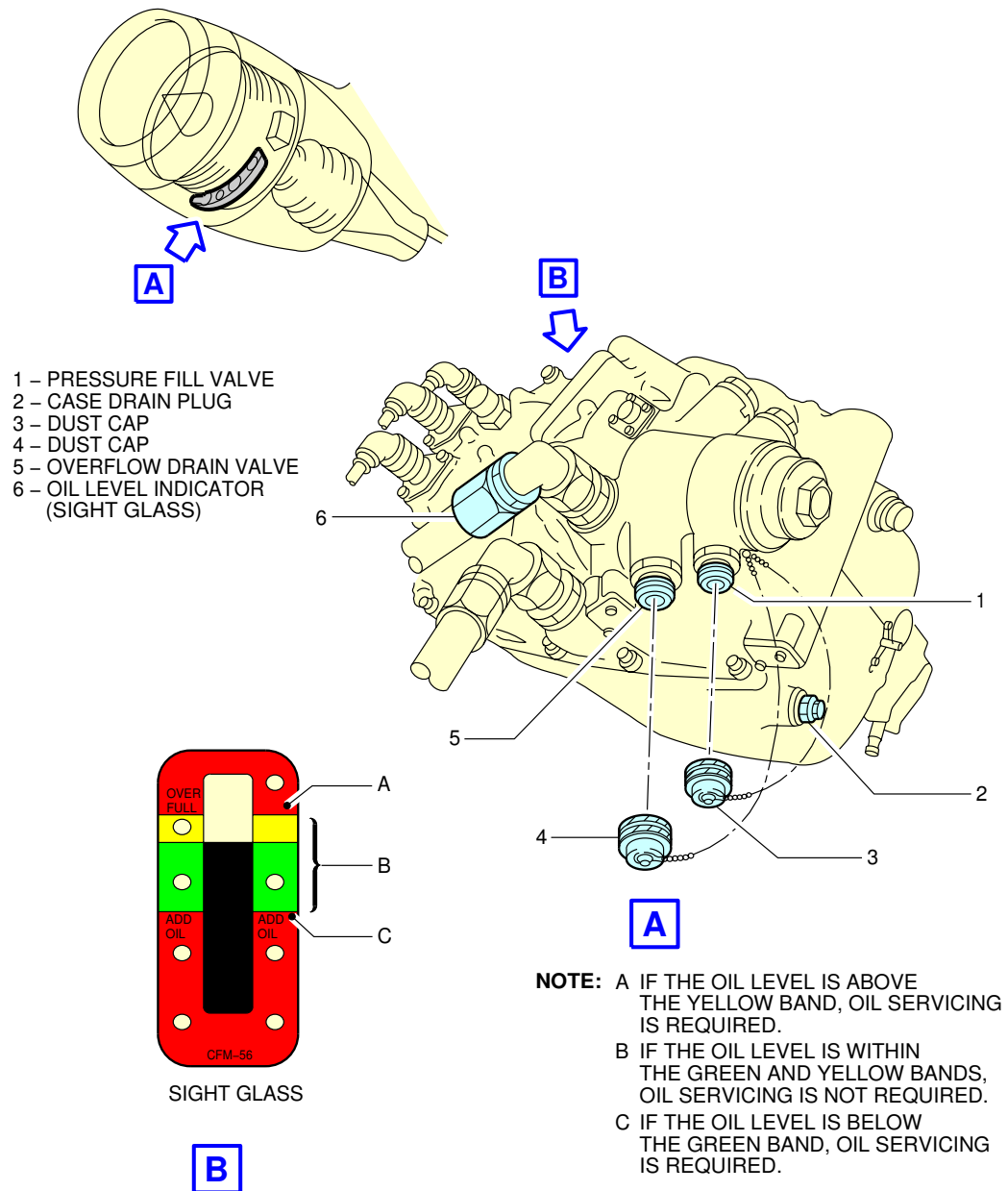
****ON A/C A319-100**



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Ground Service Connections
Engine Oil Tank – CFM56 Series Engine
FIGURE 1

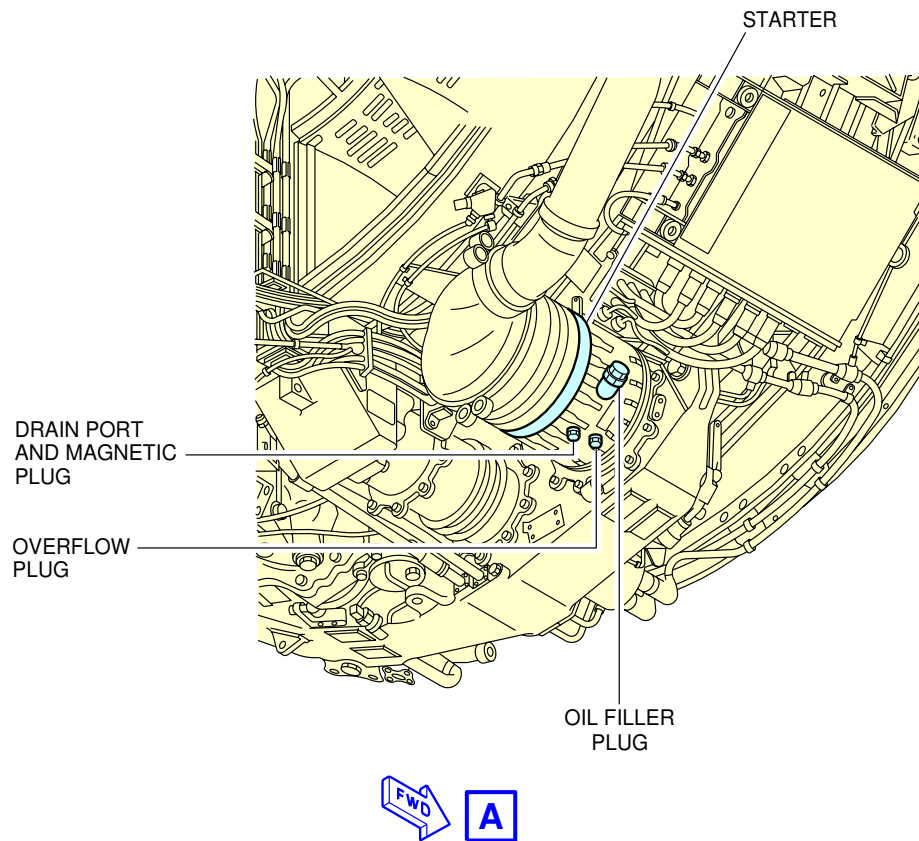
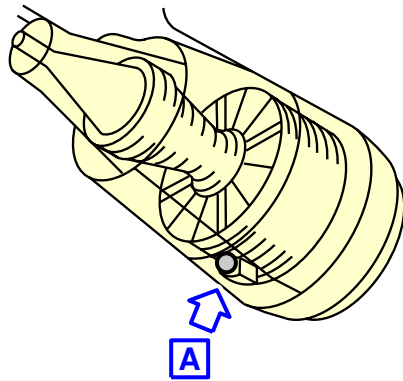
****ON A/C A319-100**



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Ground Service Connections
 IDG Oil Tank - CFM56 Series Engine
 FIGURE 2

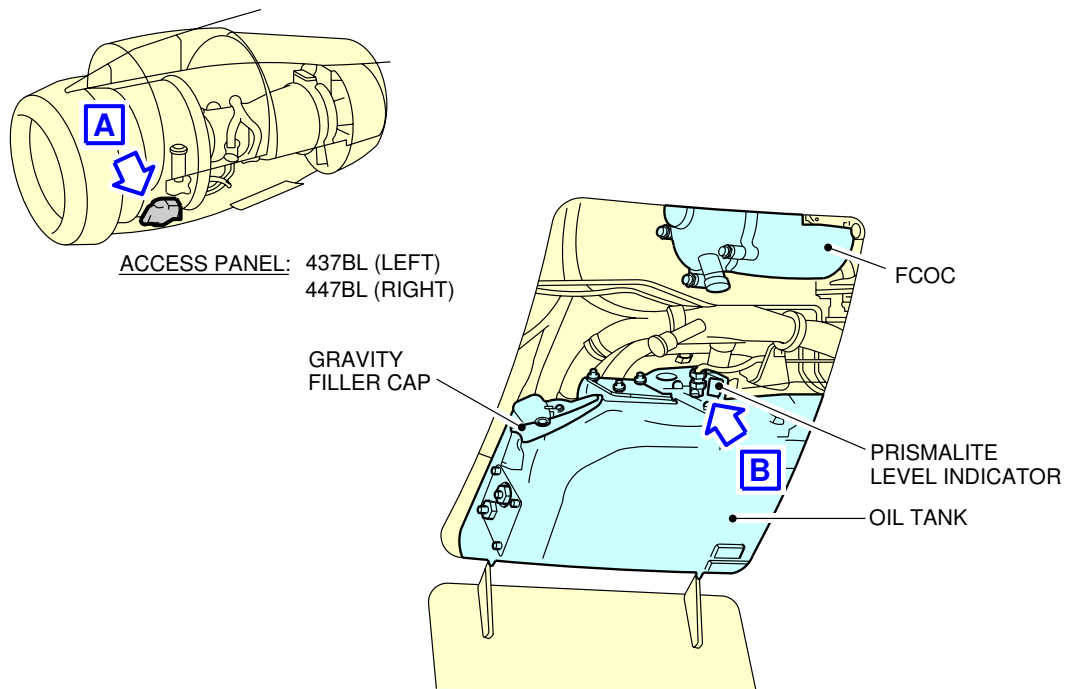
****ON A/C A319-100**



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Ground Service Connections
Starter Oil Tank – CFM56 Series Engine
FIGURE 3

****ON A/C A319-100**

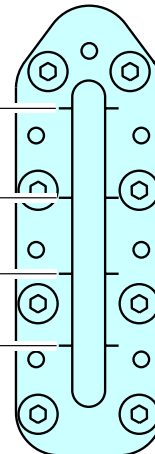


'FULL' LEVEL NOTCH
27.3 LT
29.0 US QTS
6.0 IMP GAL
(WITHIN 60 MIN FROM SHUTDOWN)

NOTCH '1'
26 LT
27 US QTS
5.7 IMP GAL

NOTCH '2'
23 LT
24 US QTS
5.1 IMP GAL

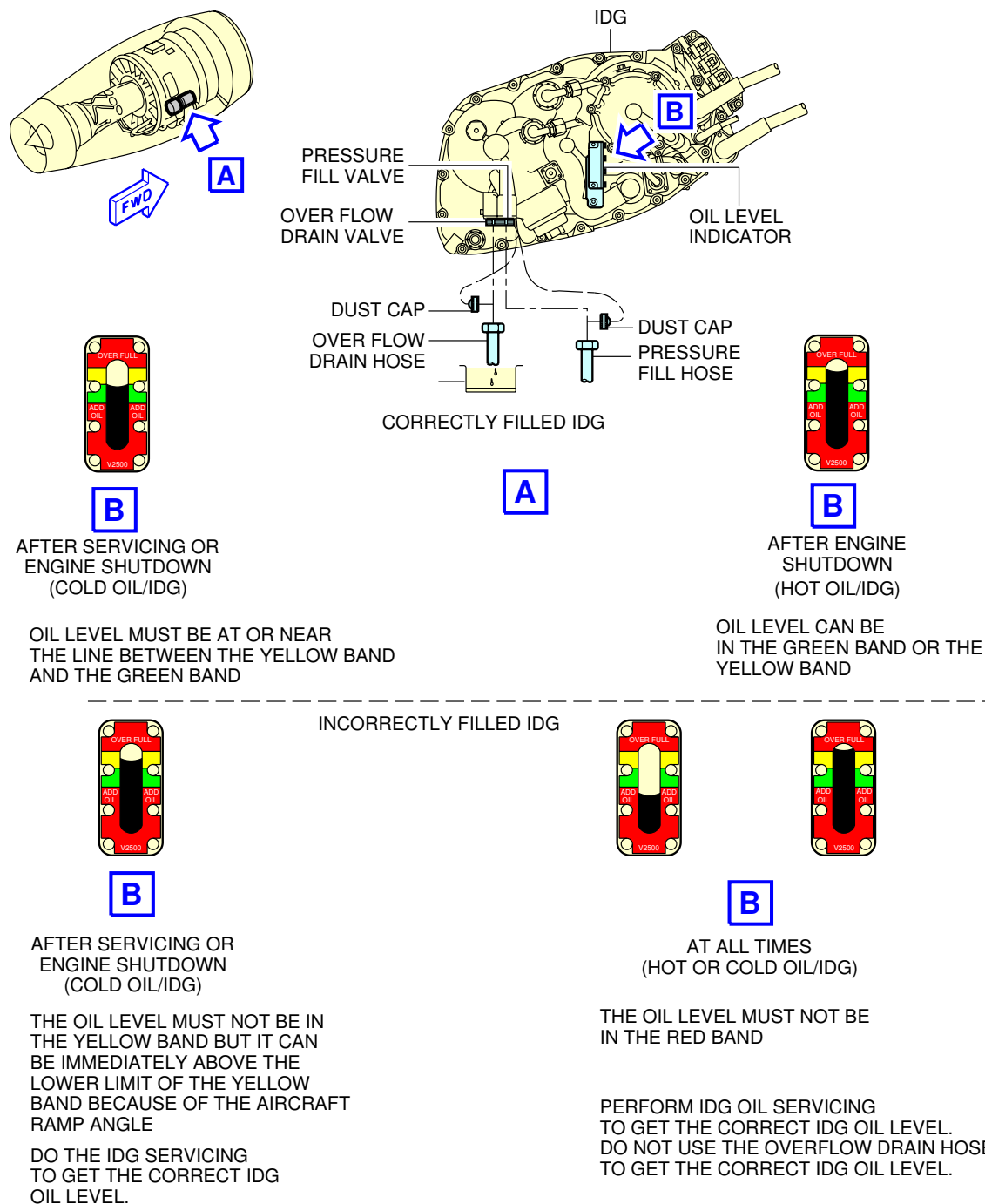
NOTCH '3'
20 LT
22 US QTS
4.5 IMP GAL



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Ground Service Connections
Engine Oil Tank – IAE V2500 Series Engine
FIGURE 4

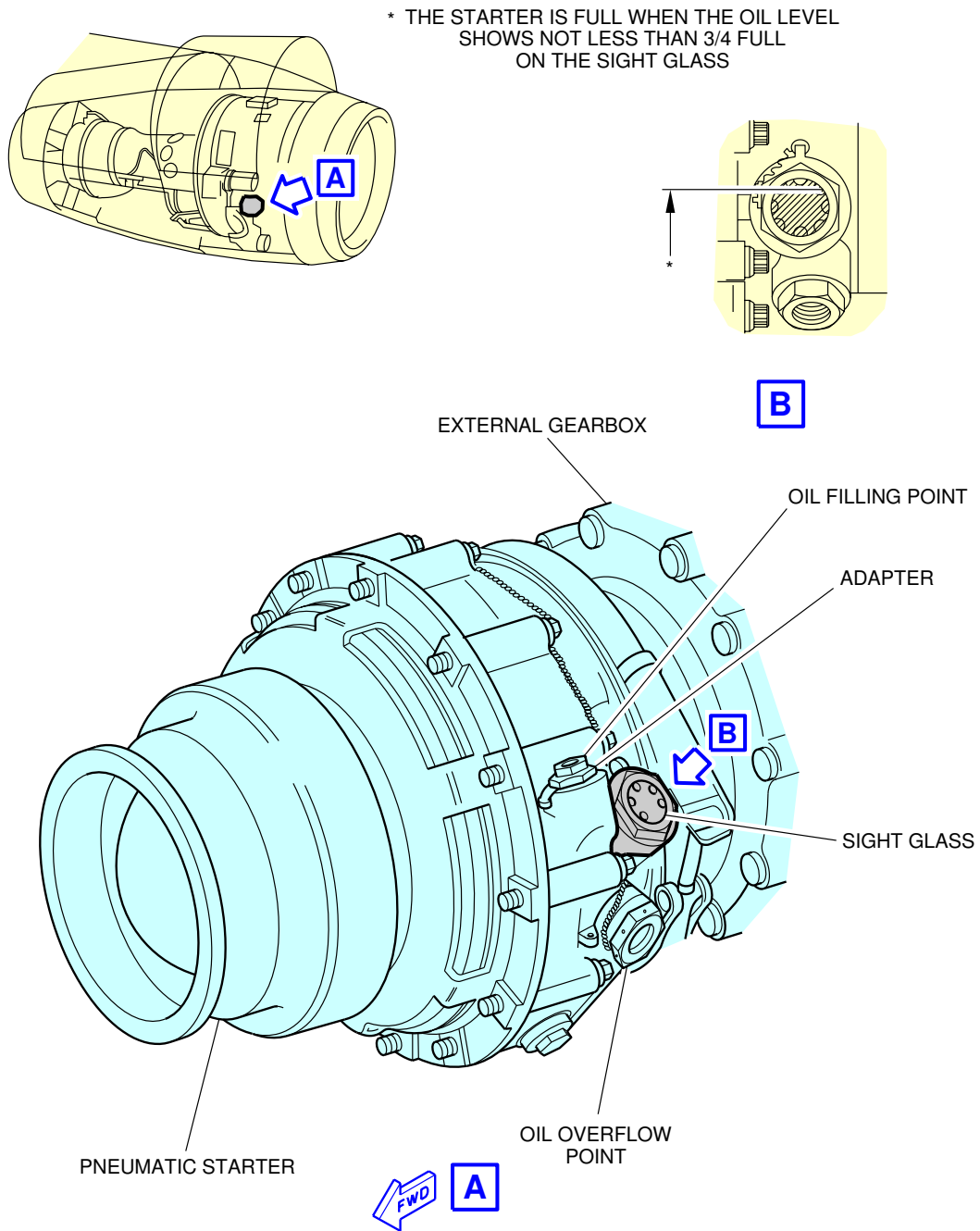
****ON A/C A319-100**



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Ground Service Connections
IDG Oil Tank – IAE V2500 Series Engine
FIGURE 5

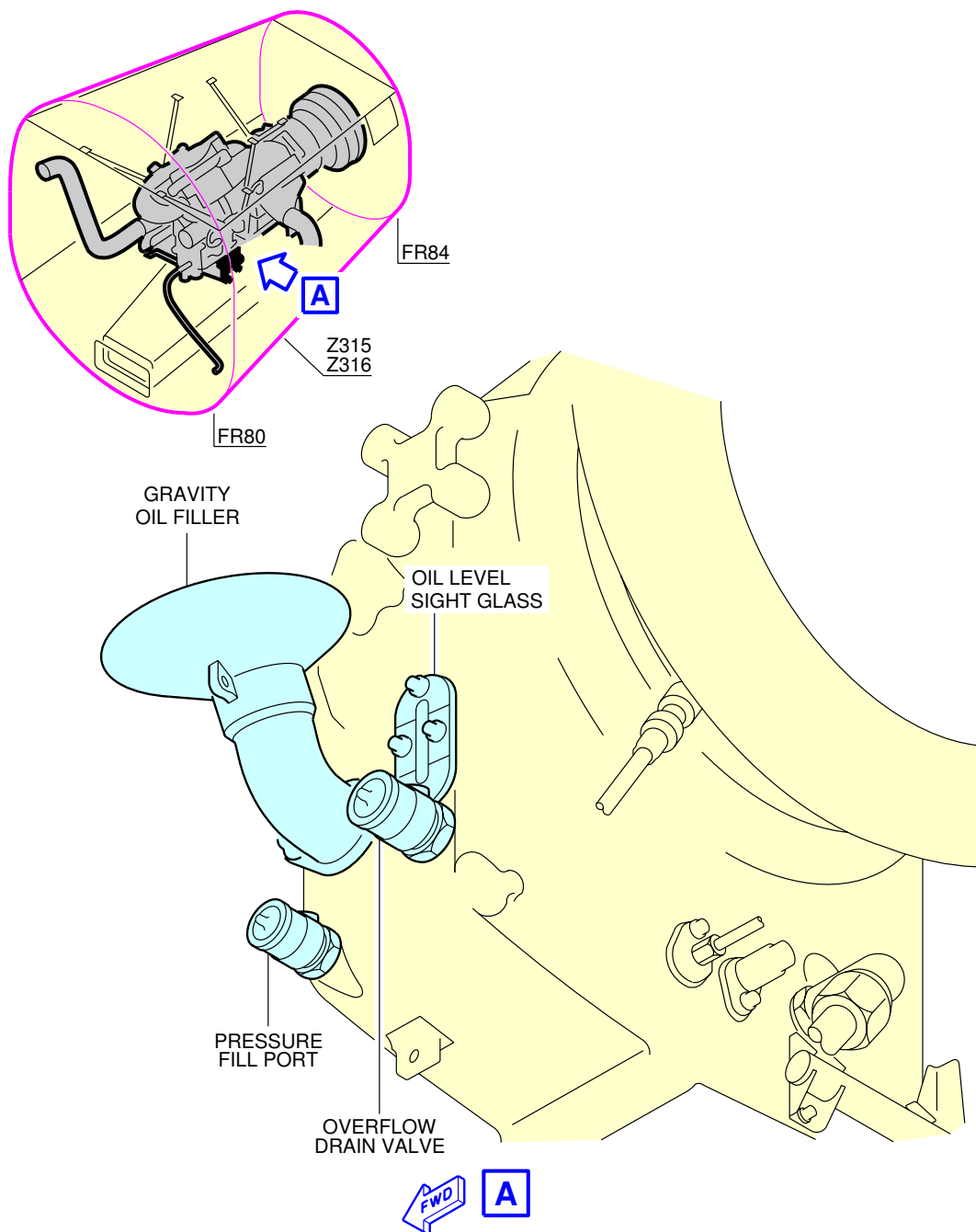
****ON A/C A319-100**



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Ground Service Connections
Starter Oil Tank – IAE V2500 Series Engine
FIGURE 6

****ON A/C A319-100**



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Ground Service Connections
APU Oil Tank
FIGURE 7

5-4-10 Vacuum Toilet System****ON A/C A319-100**Vacuum Toilet System

1. Vacuum Toilet System.

ACCESS	AFT OF NOSE m (ft)	POSITION FROM AIRCRAFT CENTERLINE		MEAN HEIGHT FROM GROUND m (ft)
		R SIDE m (ft)	L SIDE m (ft)	
Waste Water Ground Service Panel: Access door 172AR	27.5 (90.22)	0.8 (2.62)		2.8 (9.18)

NOTE : Distances are approximate

2. Technical Specifications

A. Connectors:

- Draining: 4 in (ISO 17775).
- Flushing and filling: 1 in (ISO 17775).

B. Usable waste tank capacity:

- Standard configuration - on tank: 177 l (30.91 US gal).

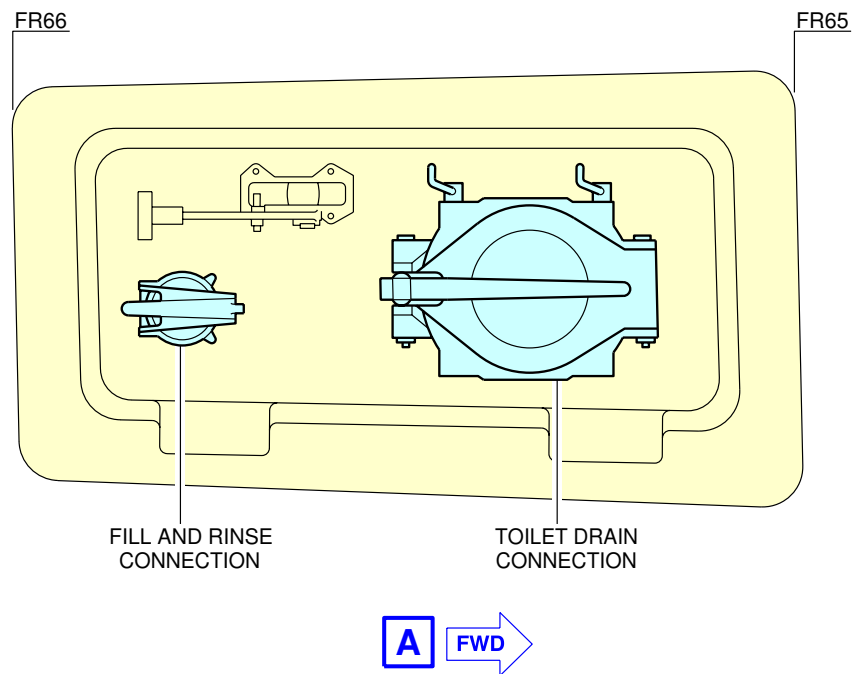
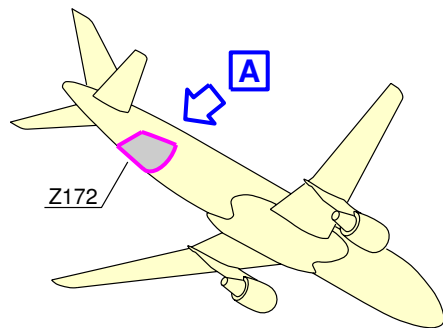
C. Waste tank - Rinsing:

- Operating pressure: 3.45 bar (50 psi).

D. Waste tank - Precharge:

- 10 l (2.64 US gal).

****ON A/C A319-100**



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Ground Service Connections
Waste Water Ground Service Panel
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

5-5-0 Engine Starting Pneumatic Requirements

****ON A/C A319-100**

Engine Starting Pneumatic Requirements

1. Engine Starting Pneumatic Requirements.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

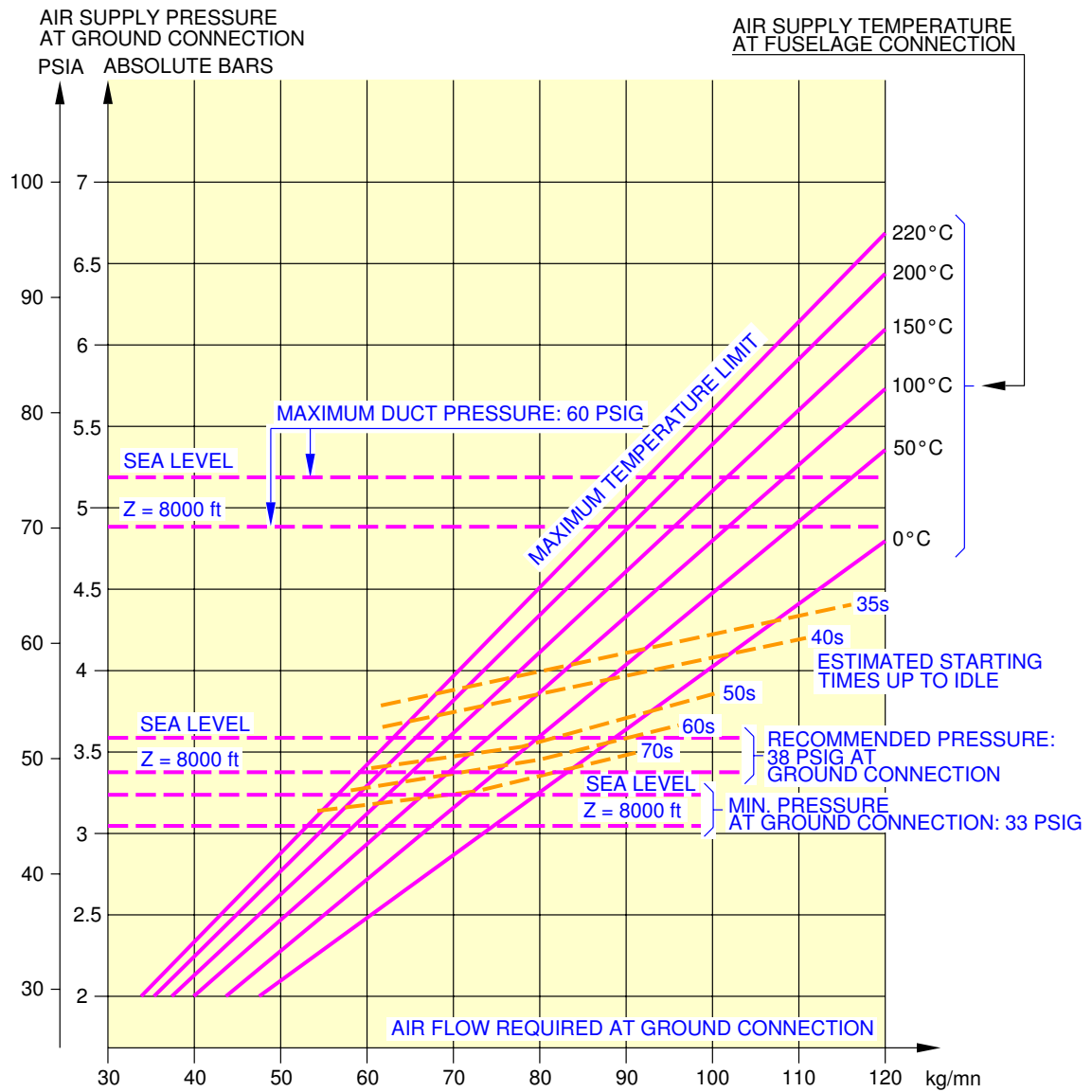
5-5-1 Low Temperatures

****ON A/C A319-100**

Low Temperature -40 ° C (-40 ° F)

1. This section provides the engine starting pneumatic requirements for a temperature of -40 ° C (-40 ° F).

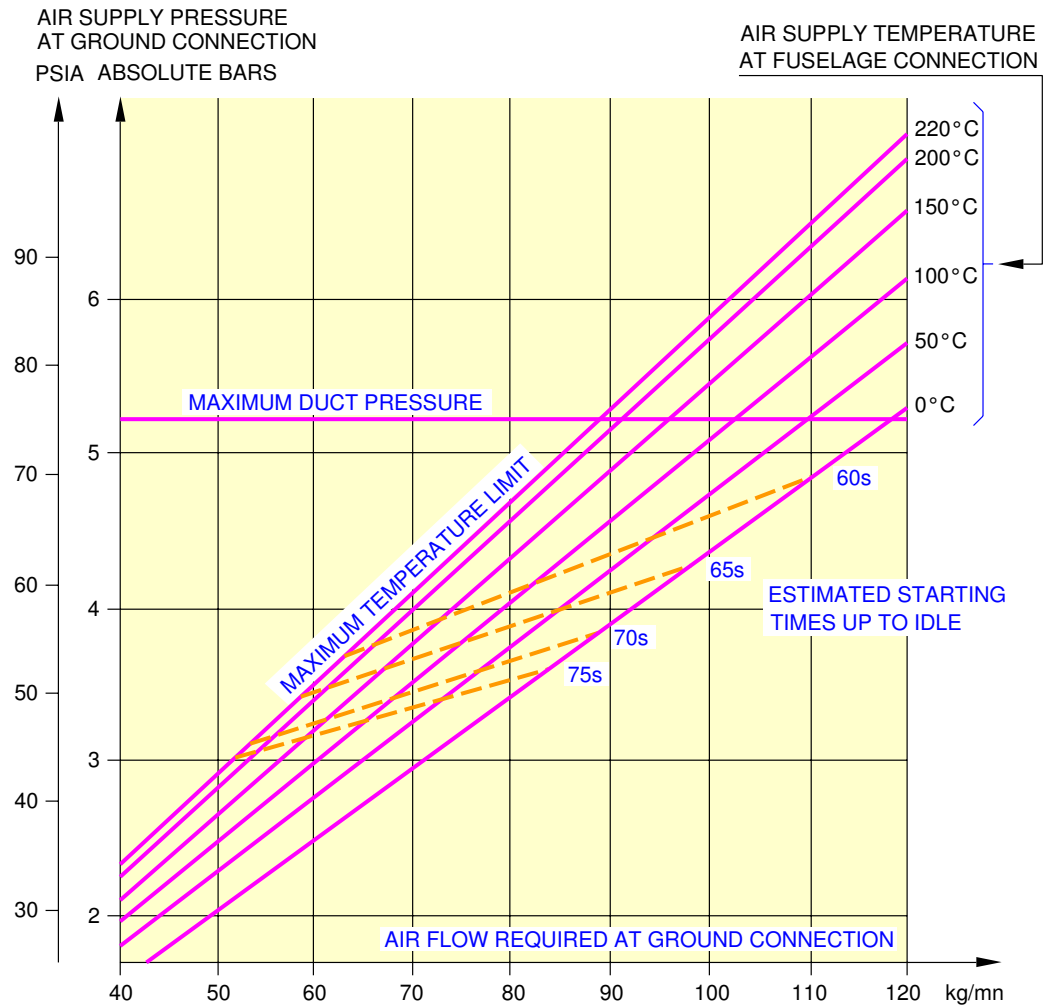
****ON A/C A319-100**



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Engine Starting Pneumatic Requirements
Temperature -40 °C (-40 °F) – CFM56 series engine
FIGURE 1

****ON A/C A319-100**



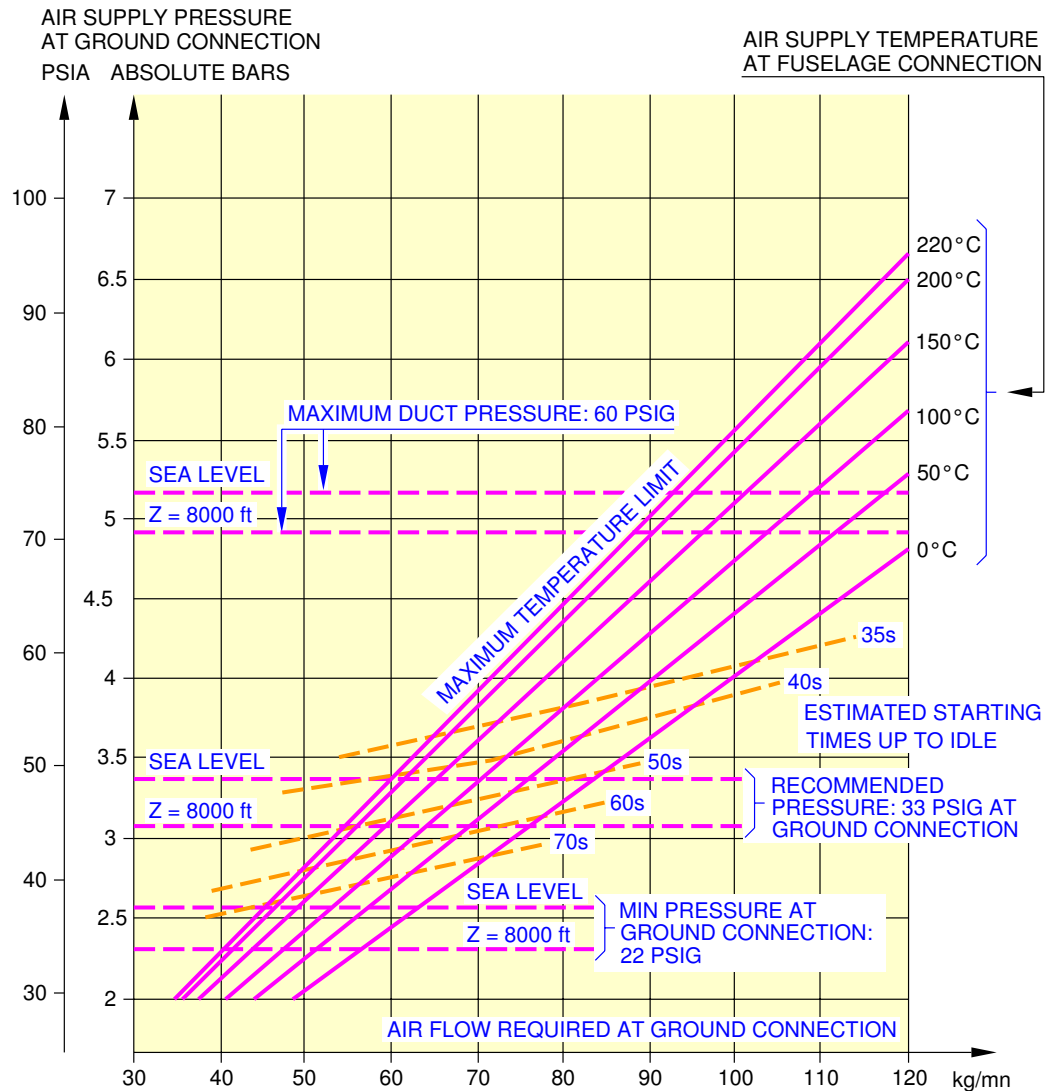
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Engine Starting Pneumatic Requirements
 Temperature -40 °C (-40 °F) – IAE V2500 series engine
 FIGURE 2

5-5-2 Ambient Temperatures****ON A/C A319-100**Ambient Temperature +15 °C (+59 °F)

1. This section provides the engine starting pneumatic requirements for a temperature of +15 °C (+59 °F).

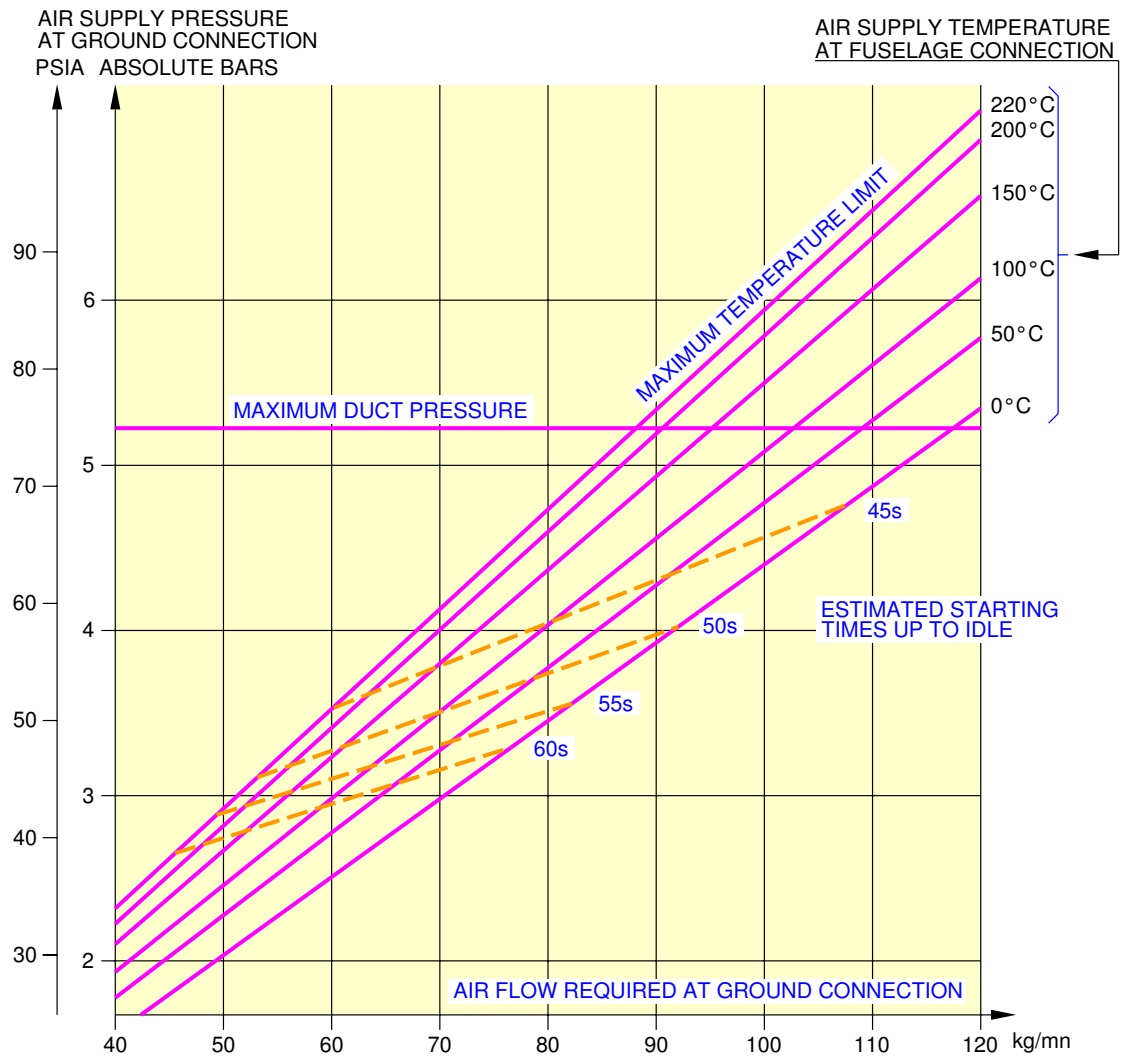
****ON A/C A319-100**



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Engine Starting Pneumatic Requirements
Temperature +15 °C (+59 °F) – CFM56 series engine
FIGURE 1

****ON A/C A319-100**



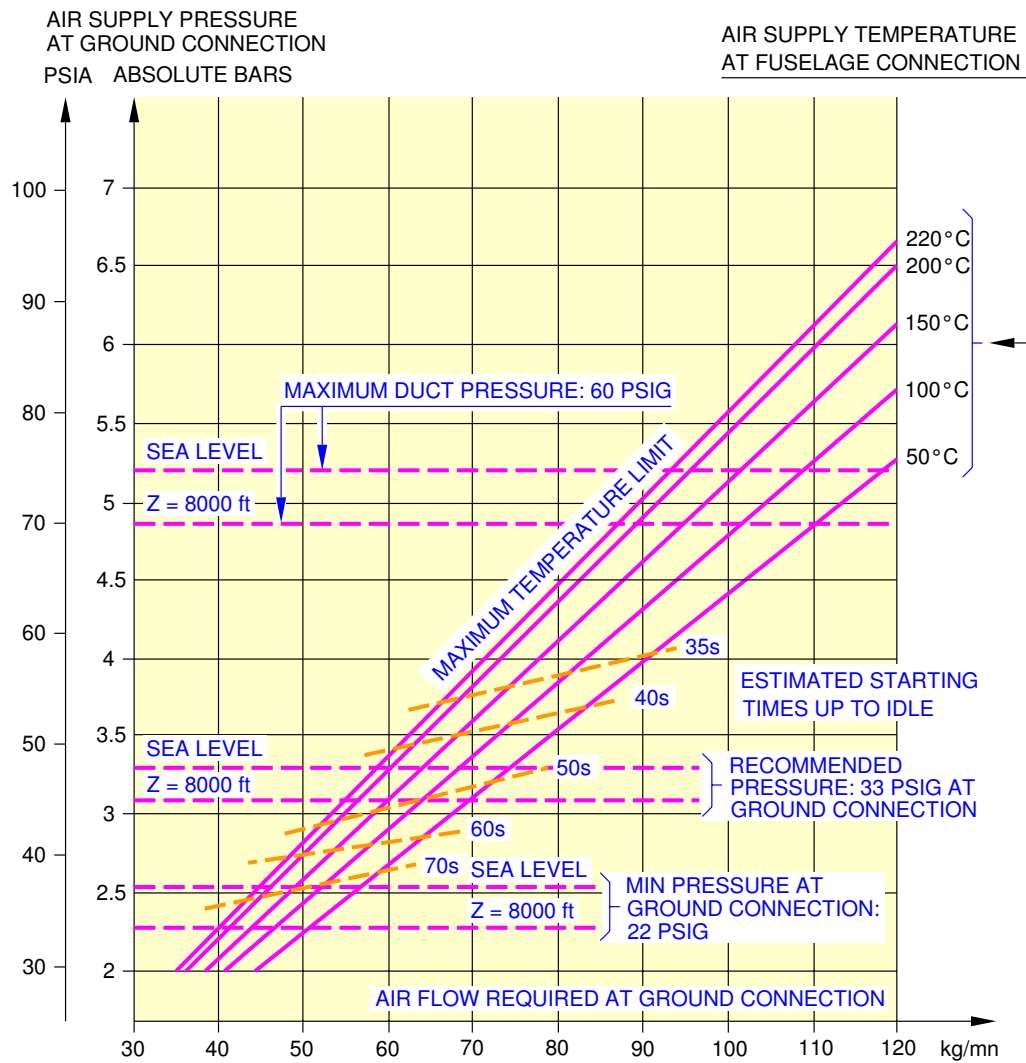
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Engine Starting Pneumatic Requirements
 Temperature +15 °C (+59 °F) – IAE V2500 series engine
 FIGURE 2

5-5-3 High Temperatures****ON A/C A319-100**High Temperature +50 ° C (+122 ° F) and +55 ° C (+131 ° F)

1. This section provides the engine starting pneumatic requirements for a temperature upper:
 - +50 ° C (+122 ° F) – IAE V2500
 - +55 ° C (+131 ° F) – CFM56

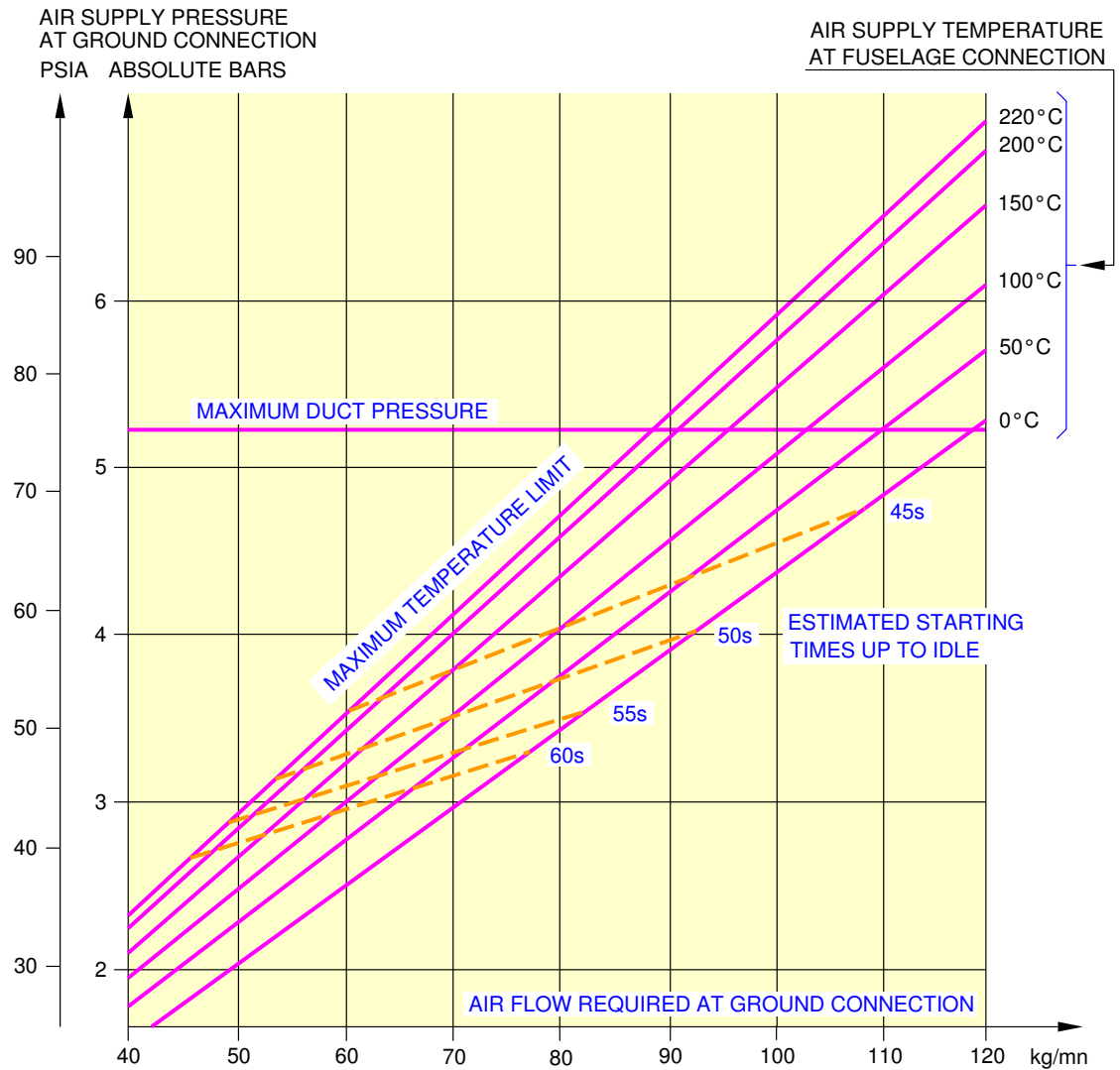
****ON A/C A319-100**



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Engine Starting Pneumatic Requirements
Temperature +55°C (+131°F) – CFM56 series engine
FIGURE 1

****ON A/C A319-100**



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Engine Starting Pneumatic Requirements
 Temperature +50 °C (+122 °F) – IAE V2500 series engine
 FIGURE 2

5-6-0 Ground Pneumatic Power Requirements

****ON A/C A319-100**

Ground Pneumatic Power Requirements

1. Ground Pneumatic Power Requirements.

FRESH AIRFLOW				PULL UP	PULL DOWN
TOTAL		CABIN		TIME T	TIME T
(kg/s)	(lb/s)	(kg/s)	(lb/s)	(min.)	(min.)
0.5	1.10	0.429	0.946	after 60 min. 13.6 ° C	–
0.6	1.32	0.515	1.135	after 60 min. 18.2 ° C	–
0.7	1.54	0.600	1.323	56.5	–
0.8	1.76	0.686	1.512	47.5	after 60 min. 28 ° C
0.9	1.98	0.772	1.702	40.5	52.5
1.0	2.20	0.858	1.892	35.5	38.5
1.1	2.43	0.944	2.081	31.0	29.5
1.2	2.65	1.030	2.271	27.5	23.5
1.3	2.87	1.115	2.458	24.0	18.5
1.4	3.09	1.201	2.648	21.5	15.0
1.5	3.31	1.287	2.837	19.5	12.0

NOTE : Data for unstabilized conditions see 5-6-1 and 5-6-2.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

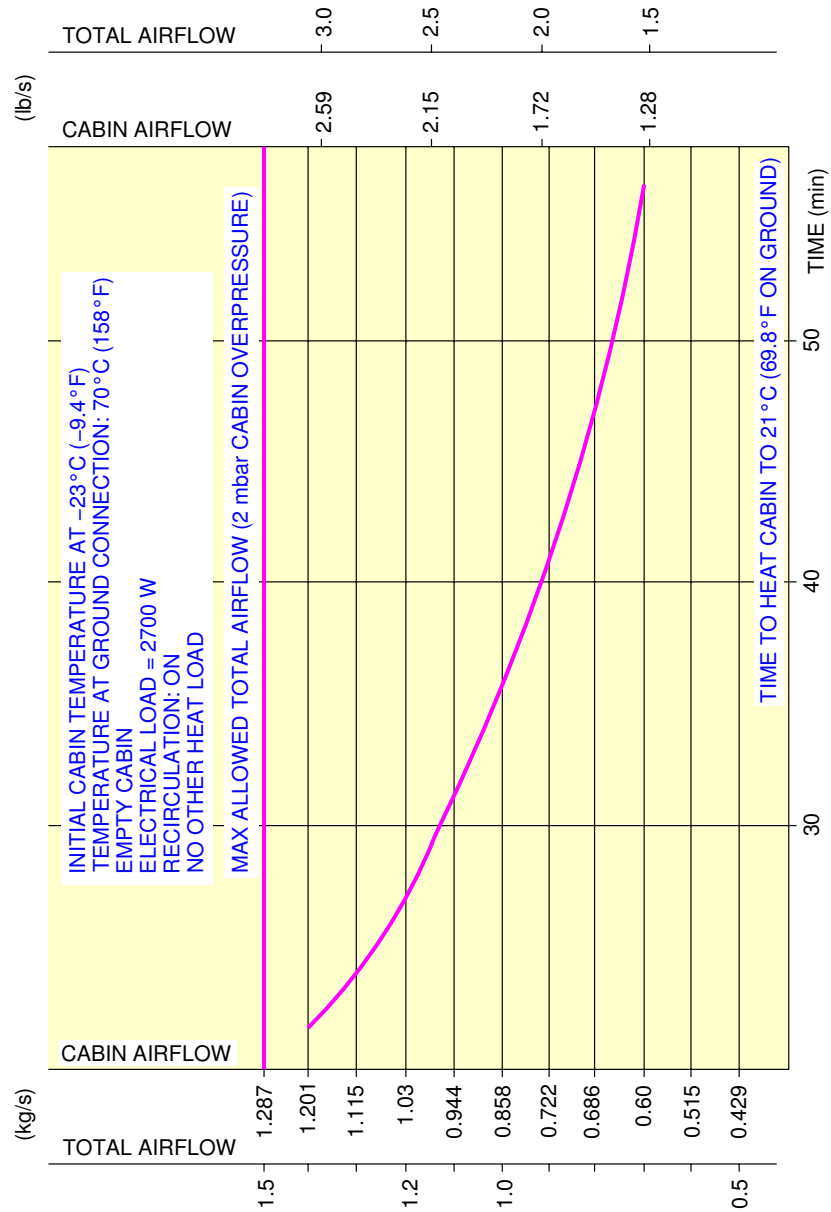
5-6-1 Heating

****ON A/C A319-100**

Heating

1. This section provides the ground pneumatic power requirements heating.

****ON A/C A319-100**



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Ground Pneumatic Power Requirements
Heating
FIGURE 1



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

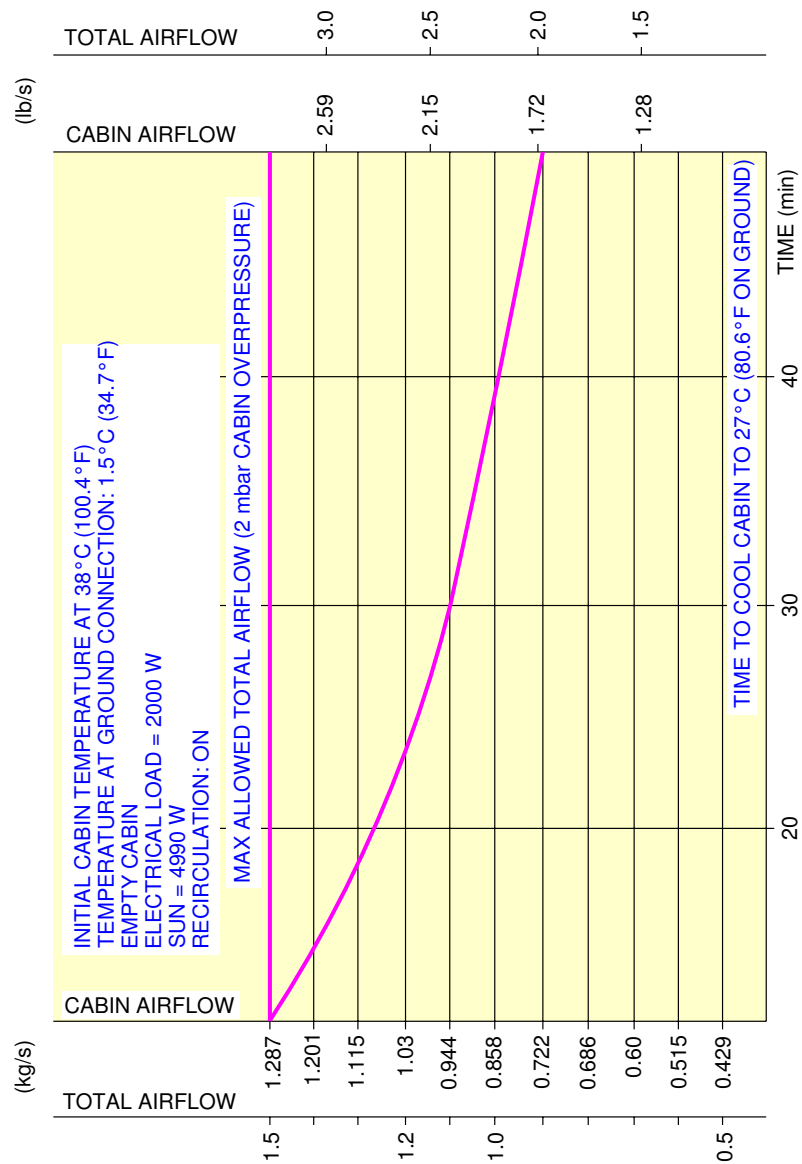
5-6-2 Cooling

****ON A/C A319-100**

Cooling

1. This section provides the ground pneumatic power requirements cooling.

****ON A/C A319-100**



N_AC_050602_1_0020101_01_01

Ground Pneumatic Power Requirements
Cooling
FIGURE 1

5-7-0 Preconditioned Airflow Requirements

****ON A/C A319-100**

Preconditioned Airflow Requirements

1. This section gives the preconditioned airflow requirements for cabin air conditioning.
 - A. Preconditioned Airflow Requirements.

FRESH AIRFLOW				CURVE 1	
TOTAL		CABIN		T FL	
(kg/s)	(lb/s)	(kg/s)	(lb/s)	(° C)	(° F)
0.5	1.10	0.429	0.946	-40.4	-40.7
0.6	1.32	0.515	1.135	-28.5	-19.3
0.7	1.54	0.600	1.323	-20.1	-4.2
0.8	1.76	0.686	1.512	-13.9	7.0
0.9	1.98	0.772	1.702	-9.1	15.6
1.0	2.20	0.858	1.892	-5.3	22.5
1.1	2.43	0.944	2.081	-2.2	28.0
1.2	2.65	1.030	2.271	0.4	32.7
1.3	2.87	1.115	2.458	2.6	36.7
1.4	3.09	1.201	2.648	4.4	39.9
1.5	3.31	1.287	2.837	6.0	42.8

NOTE : Data for stabilized conditions see 5-7-0.

- B. Preconditioned Airflow Requirements.

FRESH AIRFLOW				CURVE 2	
TOTAL		CABIN		T FL	
(kg/s)	(lb/s)	(kg/s)	(lb/s)	(° C)	(° F)
0.5	1.10	0.429	0.946	31.7	89.1
0.6	1.32	0.515	1.135	29.7	85.5
0.7	1.54	0.600	1.323	28.4	83.1
0.8	1.76	0.686	1.512	27.3	81.1
0.9	1.98	0.772	1.702	26.5	79.7
1.0	2.20	0.858	1.892	25.9	78.6
1.1	2.43	0.944	2.081	25.4	77.7
1.2	2.65	1.030	2.271	25.0	77.0
1.3	2.87	1.115	2.458	24.6	76.3
1.4	3.09	1.201	2.648	24.3	75.7

FRESH AIRFLOW				CURVE 2	
TOTAL		CABIN		T FL	
(kg/s)	(lb/s)	(kg/s)	(lb/s)	(° C)	(° F)
1.5	3.31	1.287	2.837	24.0	75.2

NOTE : Data for stabilized conditions see 5-7-0.

C. Preconditioned Airflow Requirements.

FRESH AIRFLOW				CURVE 3	
TOTAL		CABIN		T FL	
(kg/s)	(lb/s)	(kg/s)	(lb/s)	(° C)	(° F)
0.5	1.10	0.429	0.946	36.0	96.8
0.6	1.32	0.515	1.135	33.3	91.9
0.7	1.54	0.600	1.323	31.4	88.5
0.8	1.76	0.686	1.512	29.9	85.8
0.9	1.98	0.772	1.702	28.8	83.8
1.0	2.20	0.858	1.892	27.9	82.2
1.1	2.43	0.944	2.081	27.2	81.0
1.2	2.65	1.030	2.271	26.6	79.9
1.3	2.87	1.115	2.458	26.1	79.0
1.4	3.09	1.201	2.648	25.7	78.3
1.5	3.31	1.287	2.837	25.3	77.5

NOTE : Data for stabilized conditions see 5-7-0.

D. Preconditioned Airflow Requirements.

FRESH AIRFLOW				CURVE 4	
TOTAL		CABIN		T FL	
(kg/s)	(lb/s)	(kg/s)	(lb/s)	(° C)	(° F)
0.5	1.10	0.429	0.946	42.2	108.0
0.6	1.32	0.515	1.135	38.4	101.1
0.7	1.54	0.600	1.323	35.7	96.3
0.8	1.76	0.686	1.512	33.7	92.7
0.9	1.98	0.772	1.702	32.1	89.8
1.0	2.20	0.858	1.892	30.9	87.6
1.1	2.43	0.944	2.081	29.9	85.8
1.2	2.65	1.030	2.271	29.0	84.2
1.3	2.87	1.115	2.458	28.3	82.9
1.4	3.09	1.201	2.648	27.7	81.9

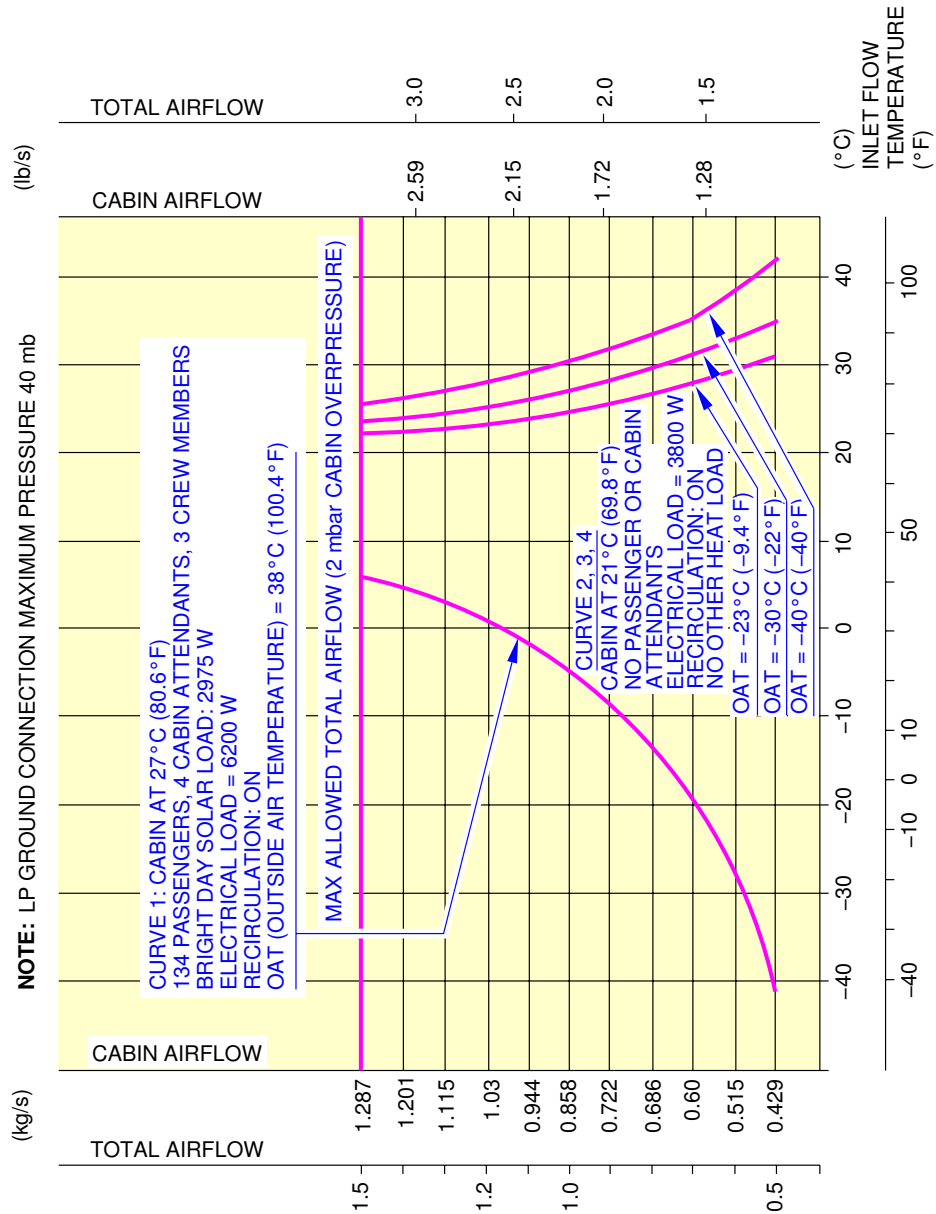


AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

FRESH AIRFLOW				CURVE 4	
TOTAL		CABIN		T FL	
(kg/s)	(lb/s)	(kg/s)	(lb/s)	(° C)	(° F)
1.5	3.31	1.287	2.837	27.2	81.0

NOTE : Data for stabilized conditions see 5-7-0.

****ON A/C A319-100**



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Preconditioned Airflow Requirements
FIGURE 1

5-8-0 Ground Towing Requirements****ON A/C A319-100**Ground Towing Requirements**1. General**

This section provides information on aircraft towing.

This aircraft is designed with means for conventional or towbarless towing.

Information/procedures can be found for both in chapter 9 of the Aircraft Maintenance Manual.

Status on towbarless towing equipment qualification can be found in SIL 09-002.

It is possible to tow or push the aircraft, at maximum ramp weight with engines at zero or up to idle thrust, using a tow bar attached to the nose gear leg (refer to AMM chap 9 for conditions and limitations).

One tow bar fitting is installed at the front of the leg.

The main landing gears have attachment points for towing or debogging (for details, refer to chapter 07 of the Aircraft Recovery Manual).

A. The first part of this section shows the chart to determine the draw bar pull and tow tractor mass requirements as function of the following physical characteristics:

- Aircraft weight
- Number of engines at idle
- Slope.

The chart is based on the engine type with the highest idle thrust level.

B. The second part of this section supplies guidelines for the tow bar.

The aircraft tow bar shall respect the following norms:

- SAE AS 1614, "Main Line Aircraft Tow Bar Attach Fitting Interface"
- SAE ARP1915 Revision C, "Aircraft Tow Bar"
- ISO 8267-1, "Aircraft - Tow bar attachment fitting - Interface requirements - Part 1: Main line aircraft"
- ISO 9667, "Aircraft ground support equipment - Tow bars"
- IATA Airport Handling Manual AHM 958, "Functional Specification for an Aircraft Tow bar".

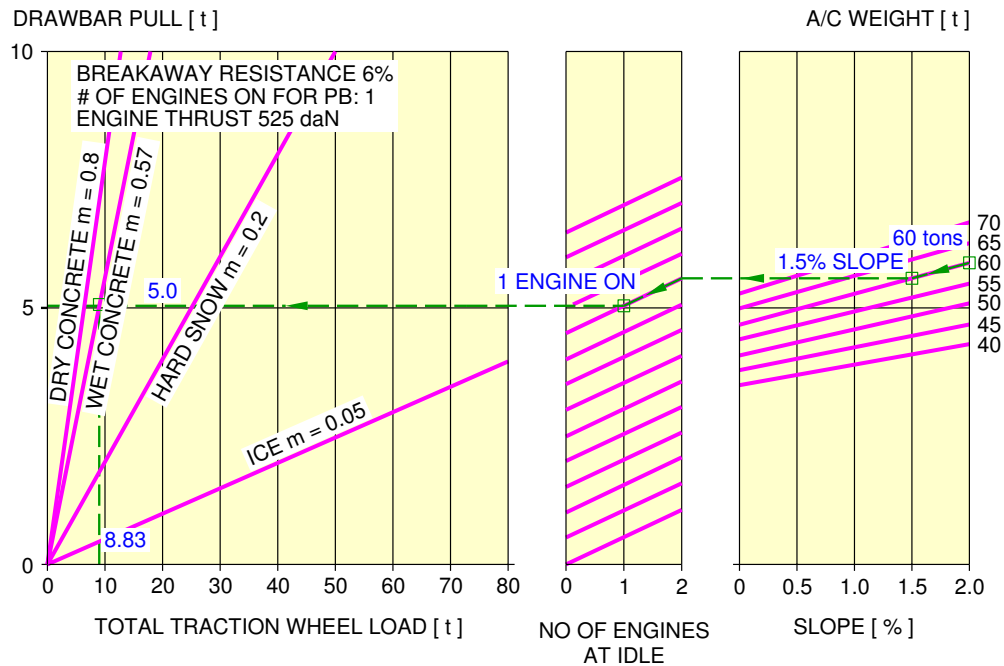
A conventional type tow bar is required which should be equipped with a damping system to protect the nose gear against jerks and with towing shear pins:

- A traction shear pin calibrated at 9425 daN (21188 lbf)
- A torsion pin calibrated at 826 m.daN (7311 lbf.in).

The towing head is designed according to SAE/AS 1614 (issue C) cat. I.

NOTE : Information on aircraft towing procedures and corresponding aircraft limitations are given in chapter 9 on the Aircraft Maintenance Manual.

****ON A/C A319-100**



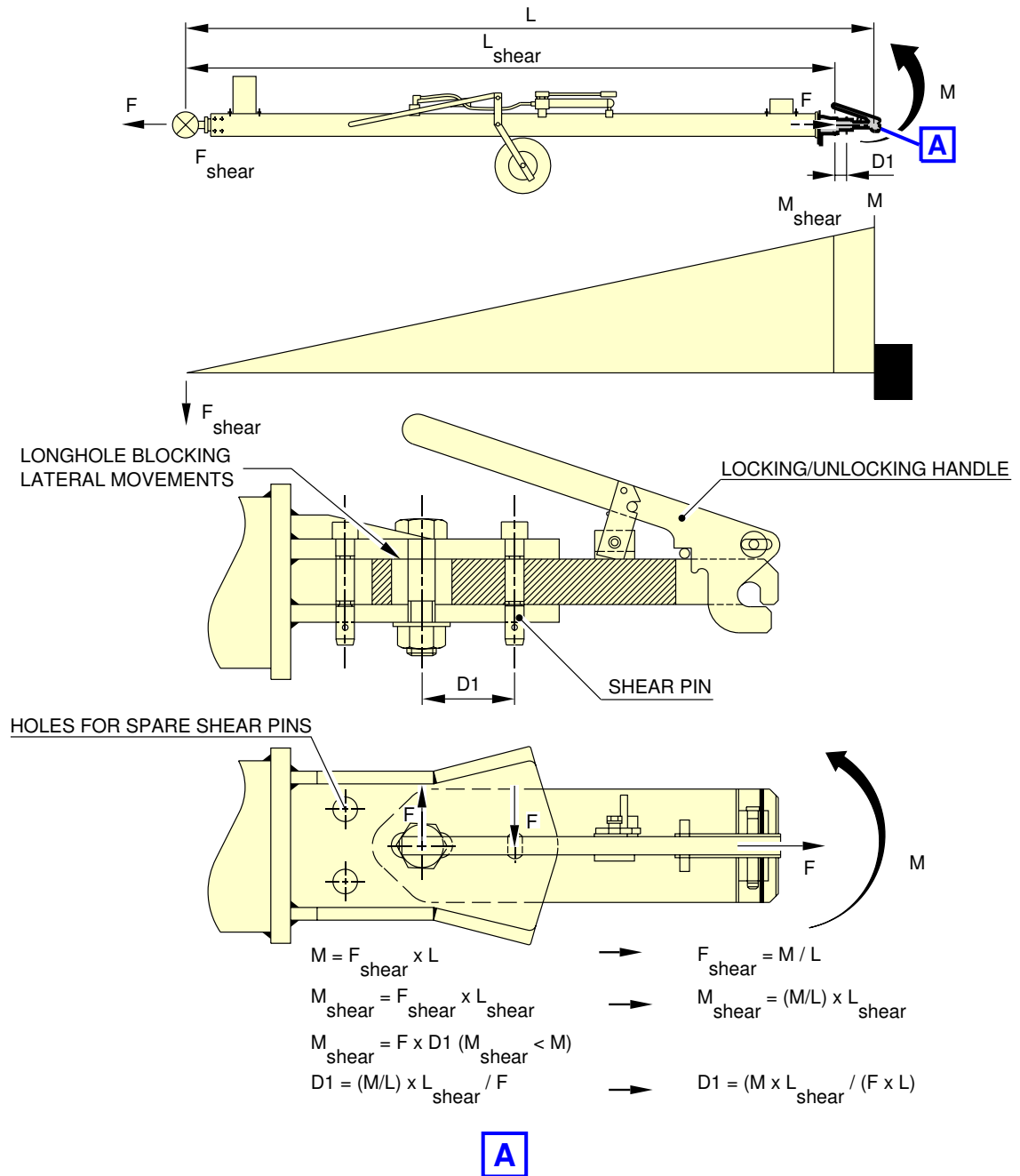
EXAMPLE HOW TO DETERMINE THE MASS REQUIREMENT TO TOW A A319 AT 60 t, AT 1.5% SLOPE, 1 ENGINE AT IDLE AND FOR WET TARMAC CONDITIONS:

- ON THE RIGHT HAND SIDE OF THE GRAPH, CHOOSE THE RELEVANT AIRCRAFT WEIGHT (60 t)
- FROM THIS POINT DRAW A PARALLEL LINE TO THE REQUIRED SLOPE PERCENTAGE (1.5%)
- FROM THE POINT OBTAINED DRAW A STRAIGHT HORIZONTAL LINE UNTIL NO OF ENGINES AT IDLE = 2
- FROM THIS POINT DRAW A PARALLEL LINE TO THE REQUESTED NUMBER OF ENGINES (1)
- FROM THIS POINT DRAW A STRAIGHT HORIZONTAL LINE TO THE DRAWBAR PULL AXIS
- THE Y-COORDINATE OBTAINED IS THE NECESSARY DRAWBAR PULL FOR THE TRACTOR (5.0 t)
- SEARCH THE INTERSECTION WITH THE "WET CONCRETE" LINE. THE OBTAINED X-COORDINATE IS THE RECOMMENDED MINIMUM TRACTOR WEIGHT (8.8 t)

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Ground Towing Requirements
FIGURE 1

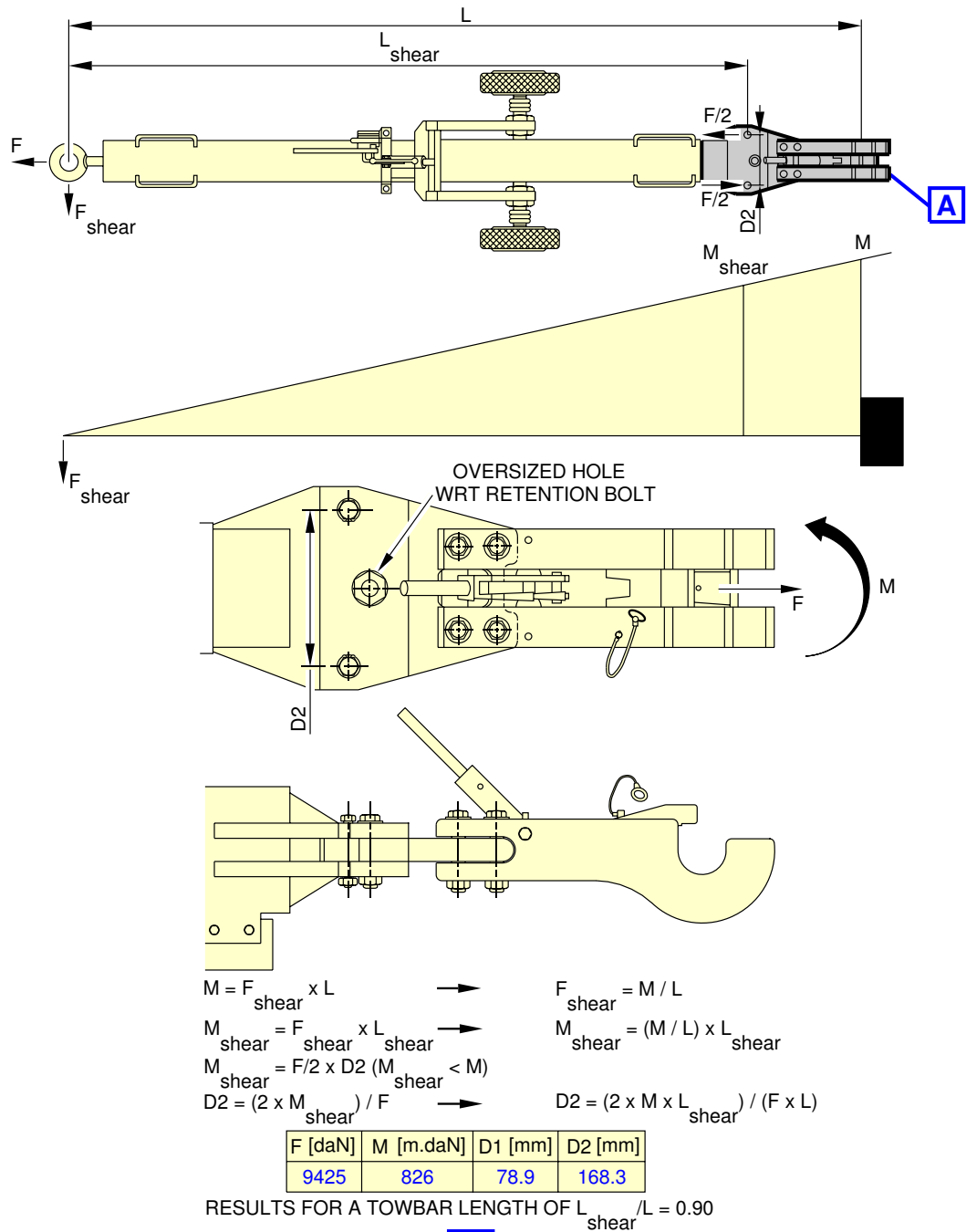
**ON A/C A319-100



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Ground Towing Requirements
Typical Tow Bar Configuration 1
FIGURE 2

**ON A/C A319-100



A

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Ground Towing Requirements
Typical Tow Bar Configuration 2
FIGURE 3

OPERATING CONDITIONS**6-1-0 Engine Exhaust Velocities and Temperatures******ON A/C A319-100**Engine Exhaust Velocities and Temperatures

1. General

This section shows the estimated engine exhaust efflux velocities and temperatures contours for Ground Idle, Breakaway, Maximum Takeoff conditions.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

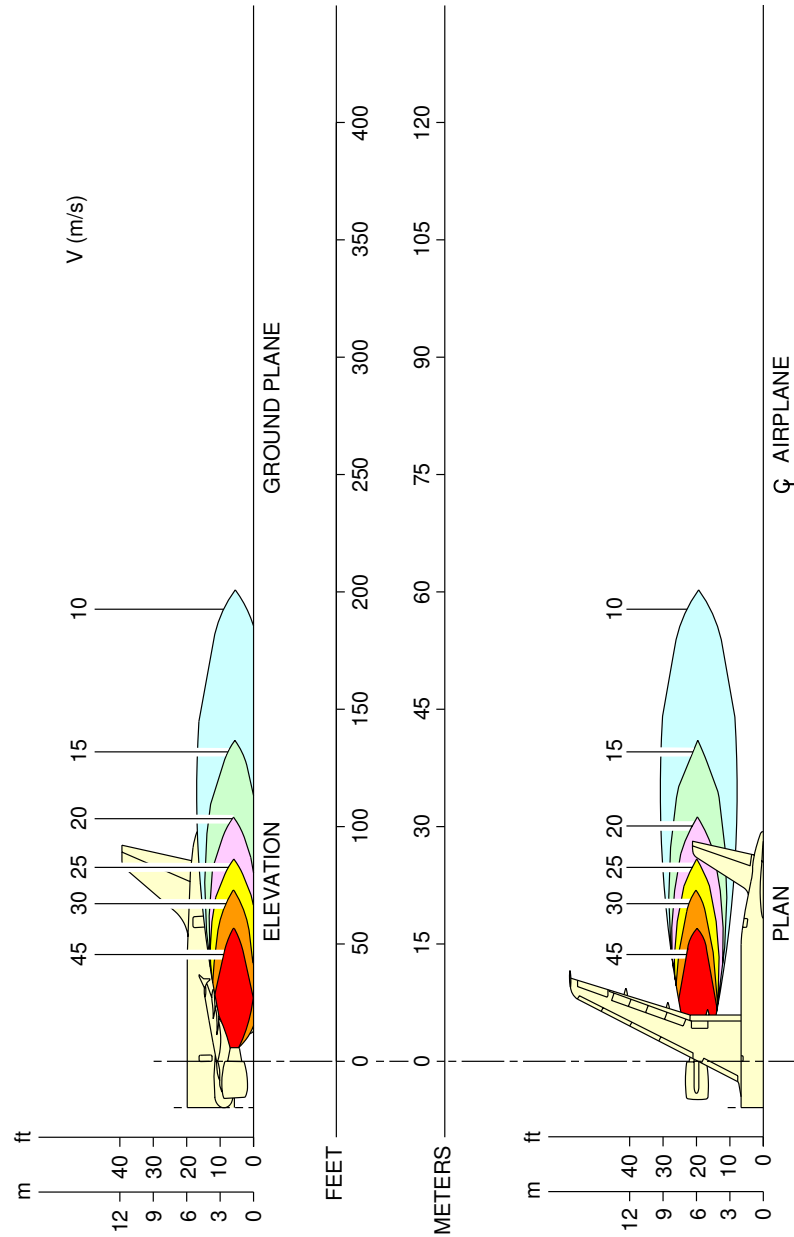
6-1-1 Engine Exhaust Velocities Contours - Ground Idle Power

****ON A/C A319-100**

Engine Exhaust Velocities Contours - Ground Idle Power

1. This section gives engine exhaust velocities contours at ground idle power.

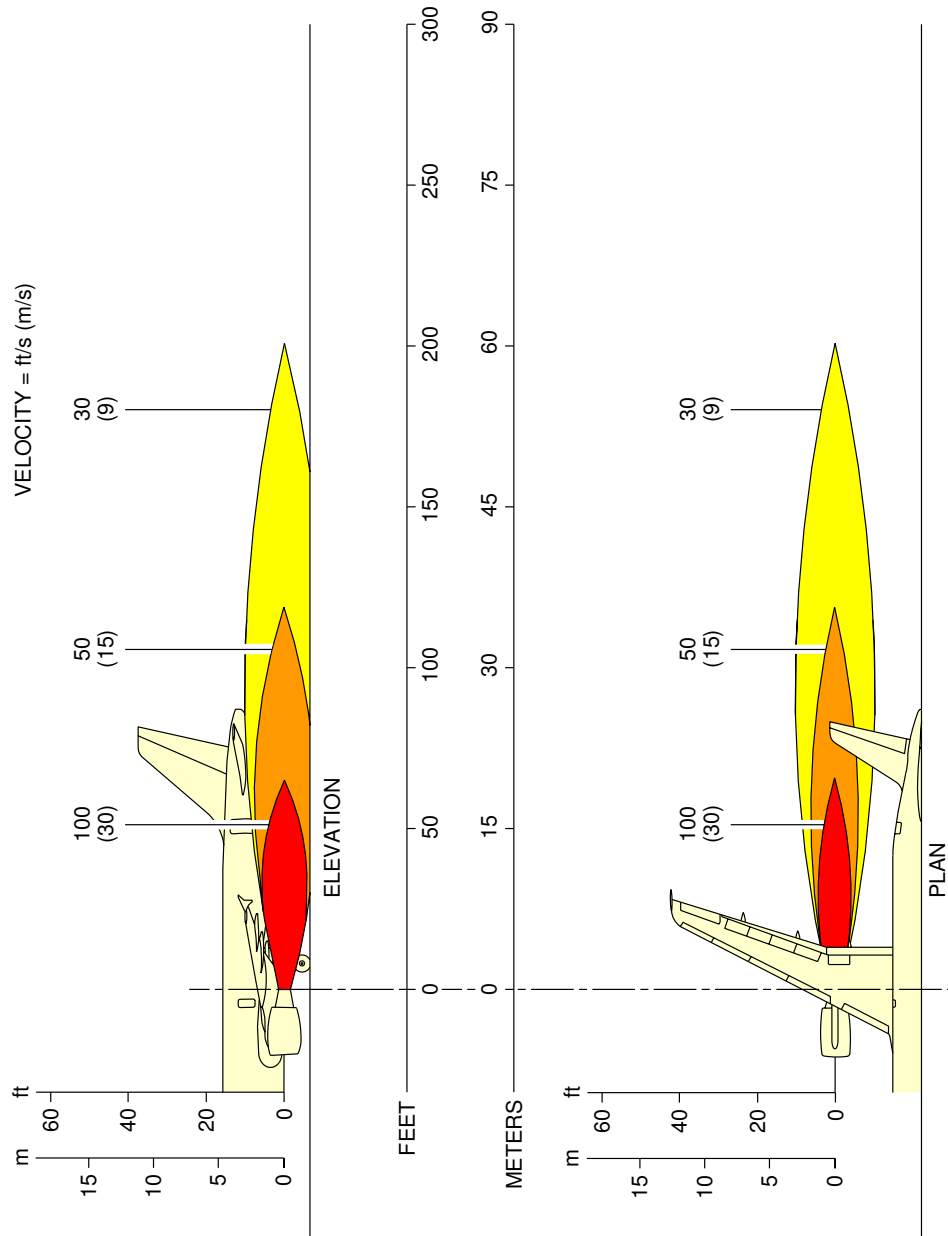
****ON A/C A319-100**



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Engine Exhaust Velocities
Ground Idle Power – CFM56 series engine
FIGURE 1

****ON A/C A319-100**



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Engine Exhaust Velocities
Ground Idle Power – IAE V2500 series engine
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

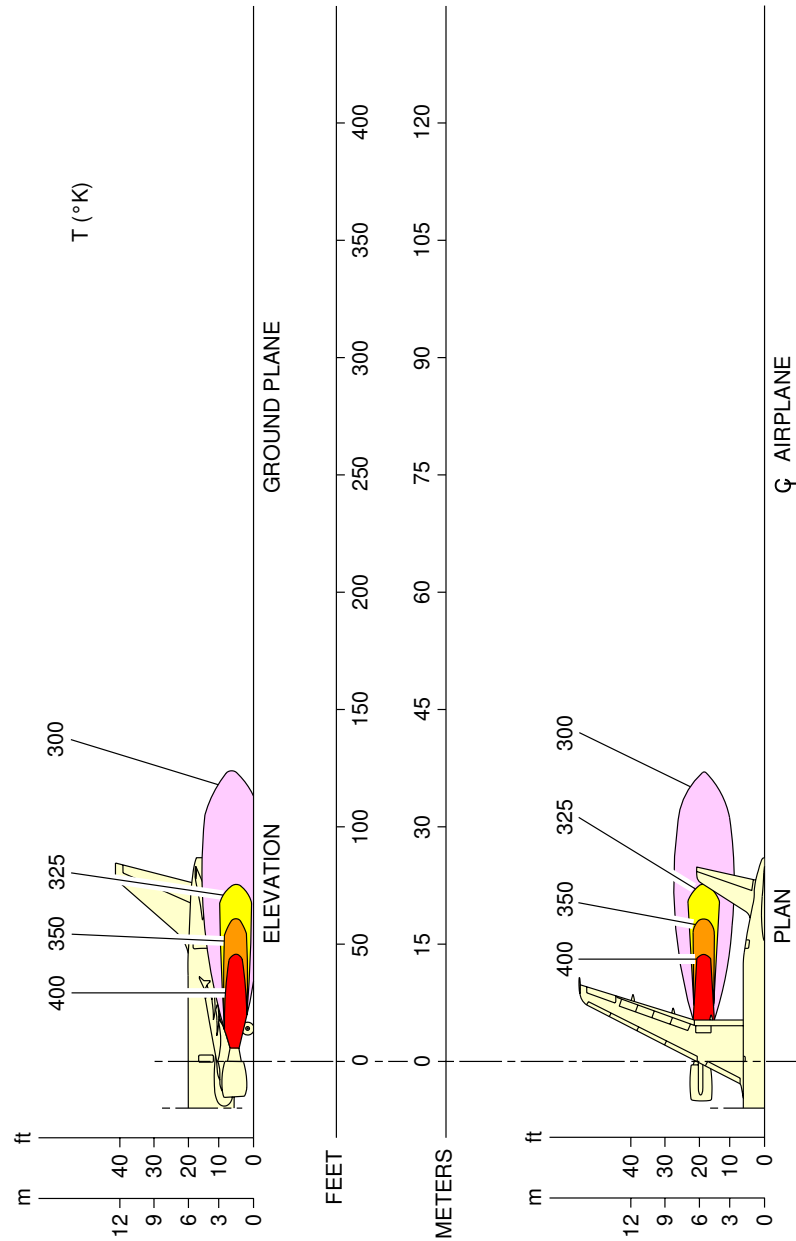
6-1-2 Engine Exhaust Temperatures Contours - Ground Idle Power

****ON A/C A319-100**

Engine Exhaust Temperatures Contours - Ground Idle Power

1. This section gives engine exhaust temperatures contours at ground idle power.

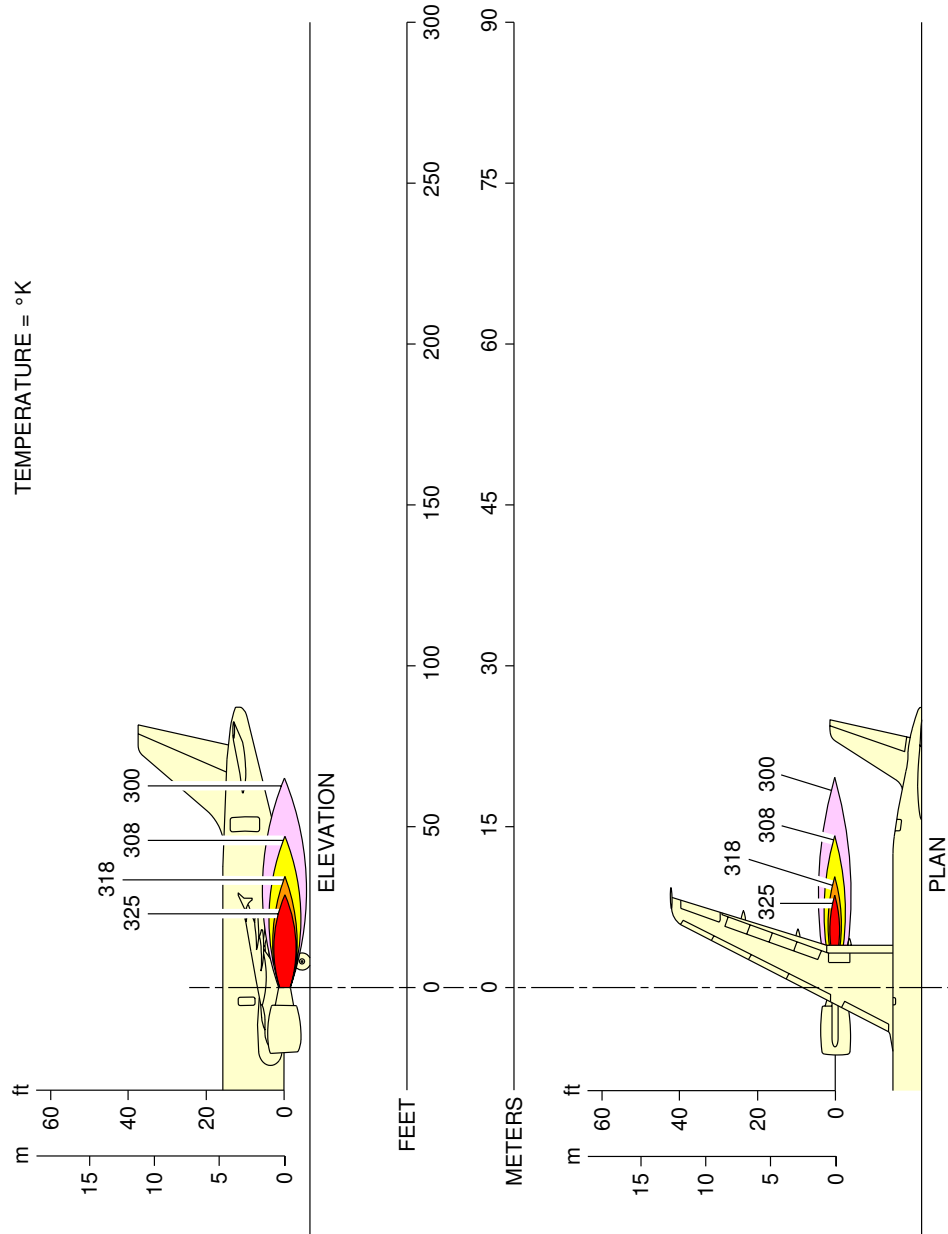
****ON A/C A319-100**



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Engine Exhaust Temperatures
Ground Idle Power – CFM56 series engine
FIGURE 1

****ON A/C A319-100**



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Engine Exhaust Temperatures
Ground Idle Power – IAE V2500 series engine
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

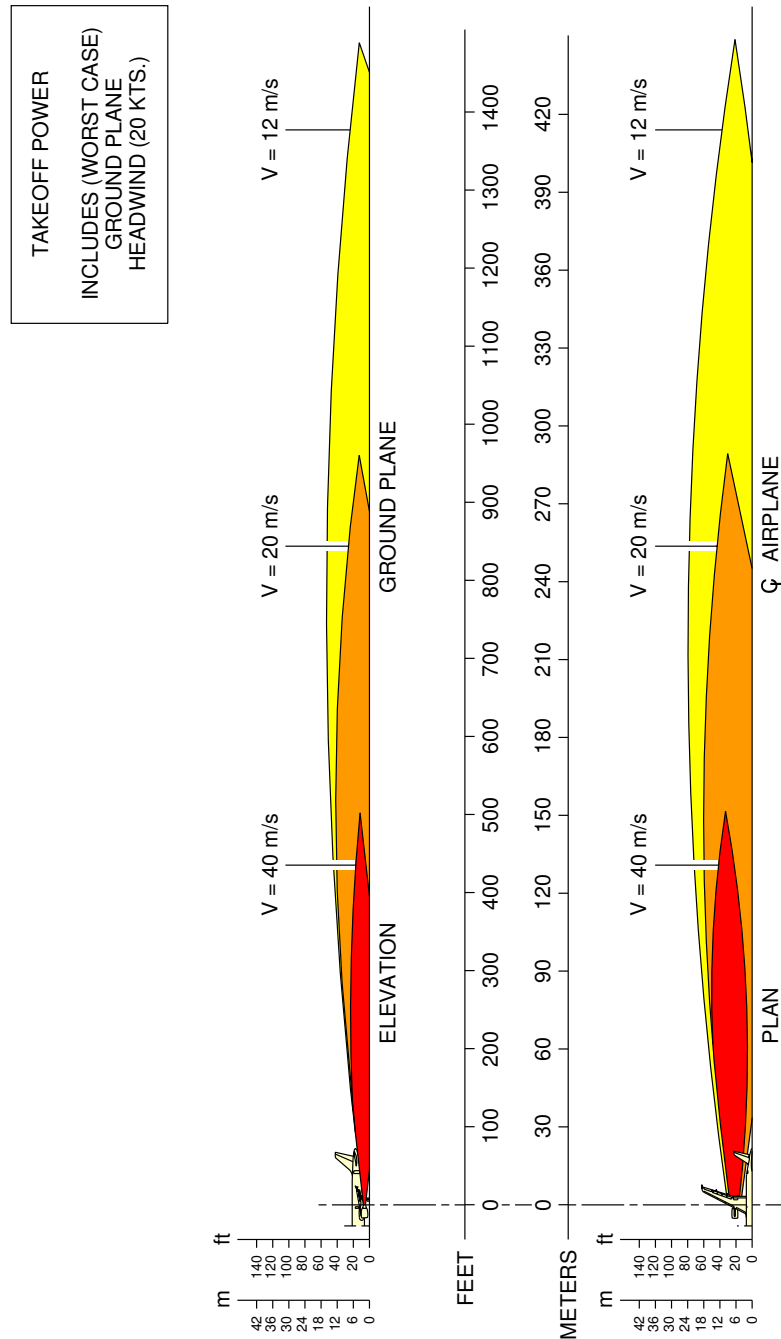
6-1-5 Engine Exhaust Velocities Contours - Takeoff Power

****ON A/C A319-100**

Engine Exhaust Velocities Contours - Takeoff Power

1. This section gives engine exhaust velocities contours at takeoff power.

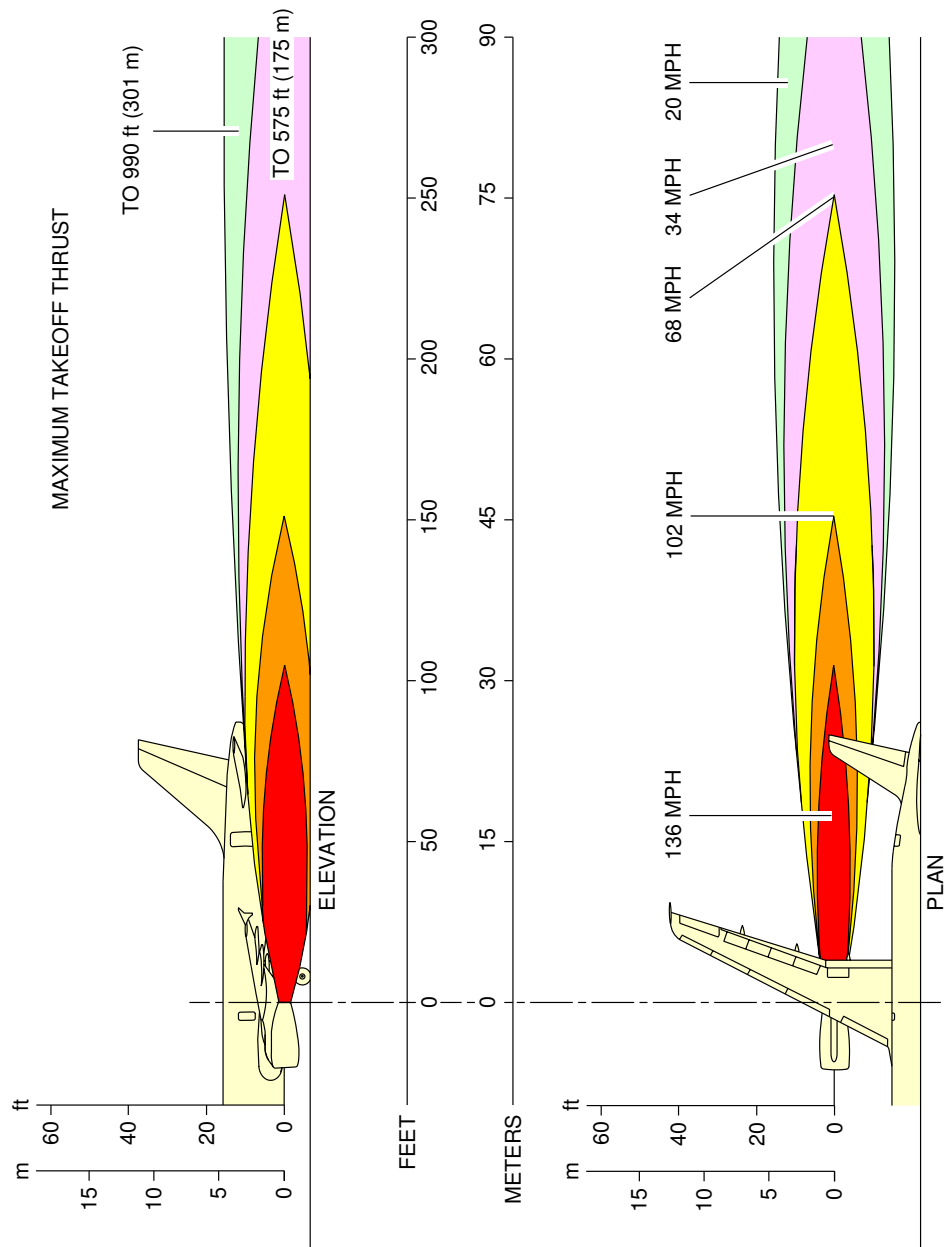
****ON A/C A319-100**



N_AC_060105_1_0030101_01_00

Engine Exhaust Velocities
Takeoff Power – CFM56 series engine
FIGURE 1

****ON A/C A319-100**



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Engine Exhaust Velocities
Takeoff Power – IAE V2500 series engine
FIGURE 2

6-1-6 Engine Exhaust Temperatures Contours - Takeoff Power****ON A/C A319-100**Engine Exhaust Temperatures Contours - Takeoff Power

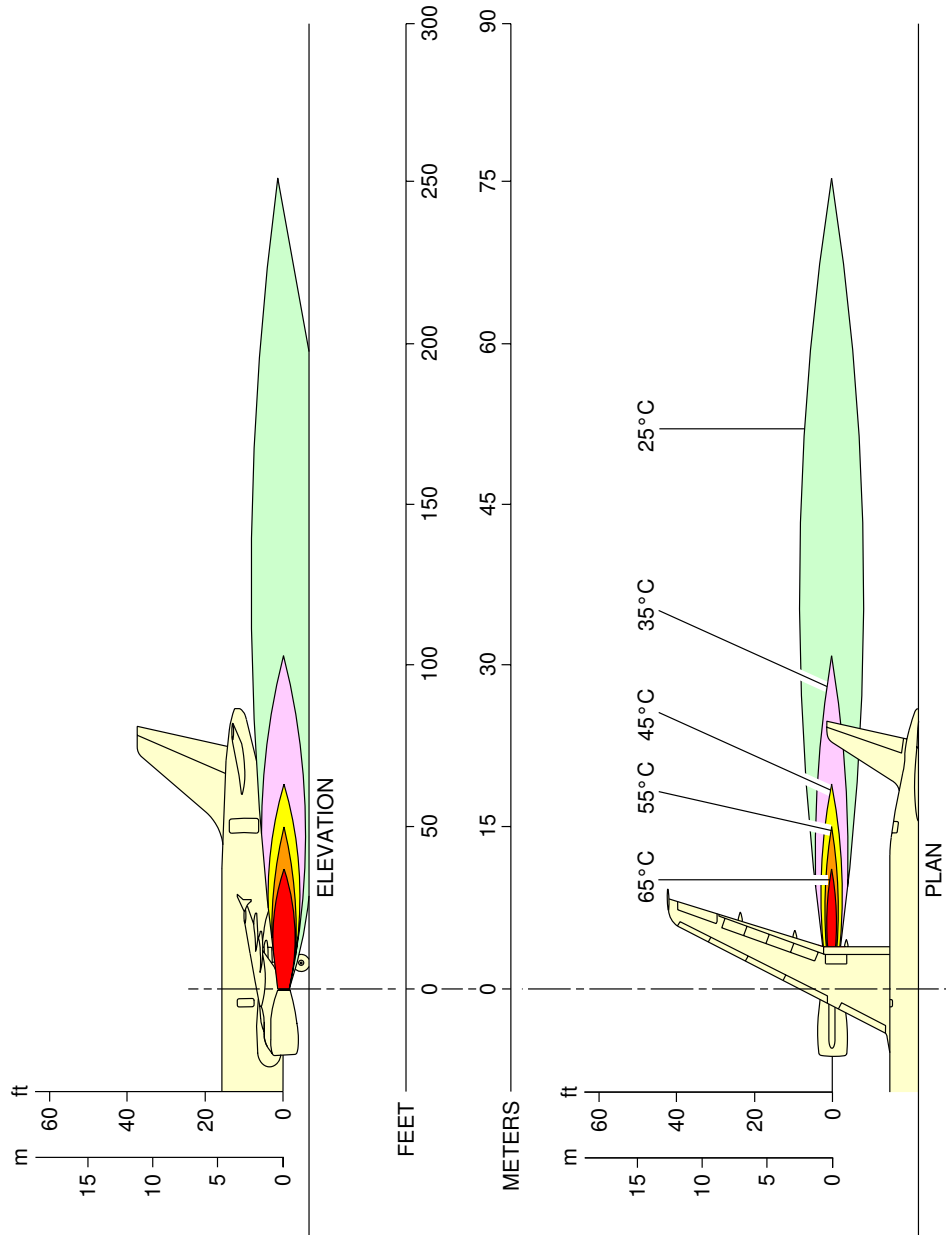
1. This section gives engine exhaust temperatures contours at takeoff power.

The diagrams illustrate the wake vortex field of an aircraft during takeoff. The top diagram is a ground plane view, and the bottom diagram is a plan view. Both views show the aircraft's position and the wake vortex field extending downwind. The wake vortex field is represented by a color-coded intensity scale (red to yellow) and temperature contours (T = 425°K, T = 370°K, T = 315°K). The ground plane view includes a color bar on the right labeled 'TAKEOFF POWER' and 'INCLUDES (WORST CASE): GROUND PLANE HEADWIND (20 KTS.)'. The plan view includes a color bar on the right labeled 'TAKEOFF POWER' and 'INCLUDES (WORST CASE): GROUND PLANE HEADWIND (20 KTS.)'.

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Engine Exhaust Temperatures
Takeoff Power – CFM56 series engine
FIGURE 1

****ON A/C A319-100**



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Engine Exhaust Temperatures
Takeoff Power – IAE V2500 series engine
FIGURE 2

6-2-0 Airport and Community Noise****ON A/C A319-100**Airport and Community Noise**1. Airport and Community Noise Data**

This section gives data concerning engine maintenance run-up noise to permit evaluation of possible attenuation requirements.

6-2-1 Noise Data****ON A/C A319-100**Noise Data

1. Noise Data for CFM56-5A series engine

A. Description of test conditions:

The arc of circle (radius = 60 m (196.85 ft)), with microphones 1.2 m (3.94 ft) high, is centered on the position of the noise reference point.

A.P.U.: off; E.C.S.: Packs off.

B. Engine parameters: 2 engines running

C. Meteorological data:

The meteorological parameters measured 1.6 m (5.25 ft) from the ground on the day of test were as follows:

- Temperature: 3 ° C (37 ° F)
- Relative humidity: 66%
- Atmospheric pressure: 1016 hPa
- Wind speed: Negligible
- No rain

2. Noise Data for CFM56-5B series engine

A. Description of test conditions:

The arc of circle (radius = 60 m (196.85 ft)), with microphones 1.2 m (3.94 ft) high, is centered on the position of the noise reference point.

A.P.U.: off; E.C.S.: Packs off.

B. Engine parameters: 2 engines running

C. Meteorological data:

The meteorological parameters measured 1.6 m (5.25 ft) from the ground on the day of test were as follows:

- Temperature: 22 ° C (72 ° F)
- Relative humidity: 42%
- Atmospheric pressure: 1003 hPa
- Wind speed: Negligible
- No rain

3. Noise Data for IAE V2500 series engine

A. Description of test conditions:

The arc of circle (radius = 60 m (196.85 ft)), with microphones 1.2 m (3.94 ft) high, is centered on the position of the noise reference point.

A.P.U.: off; E.C.S.: Packs off.

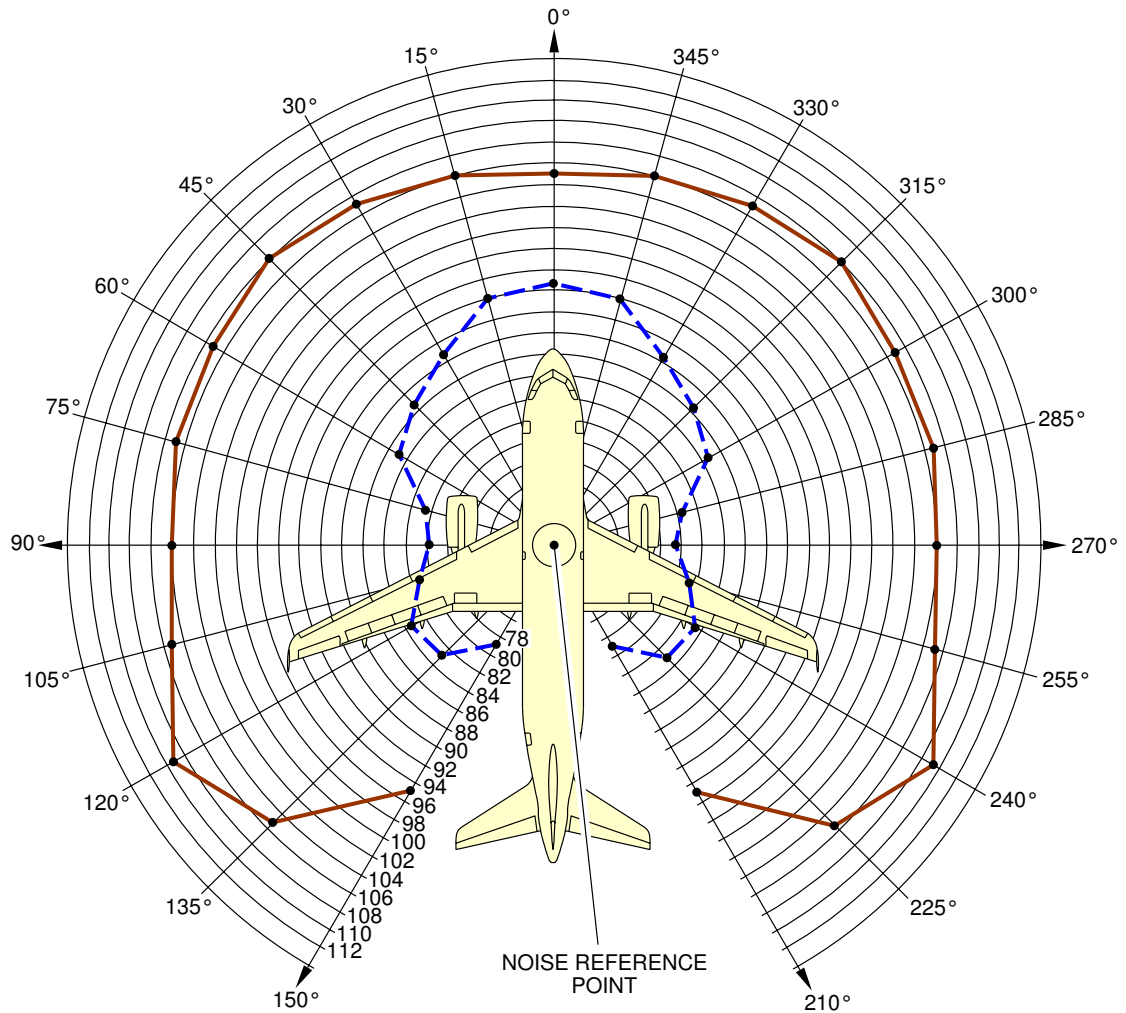
- B. Engine parameters: 2 engines running
- C. Meteorological data:

The meteorological parameters measured 1.6 m (5.25 ft) from the ground on the day of test were as follows:

- Temperature: 27 ° C (81 ° F)
- Relative humidity: 40%
- Atmospheric pressure: 1000 hPa
- Wind speed: Negligible
- No rain

****ON A/C A319-100**

	GROUND IDLE	MAX THRUST POSSIBLE ON BRAKES
N1	20.8%	90%
CURVE		

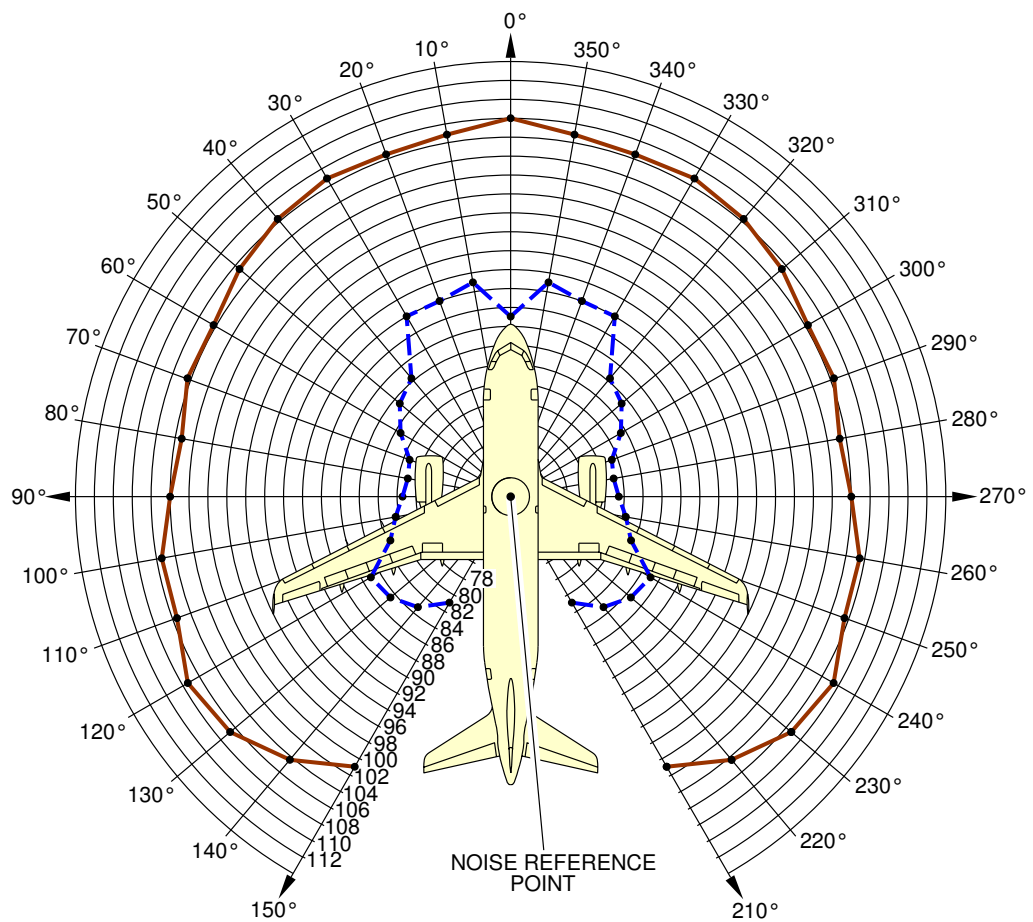


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Airport and Community Noise
CFM56-5A series engine
FIGURE 1

****ON A/C A319-100**

	GROUND IDLE	MAX THRUST POSSIBLE ON BRAKES
N1	18.9%	87%
CURVE		

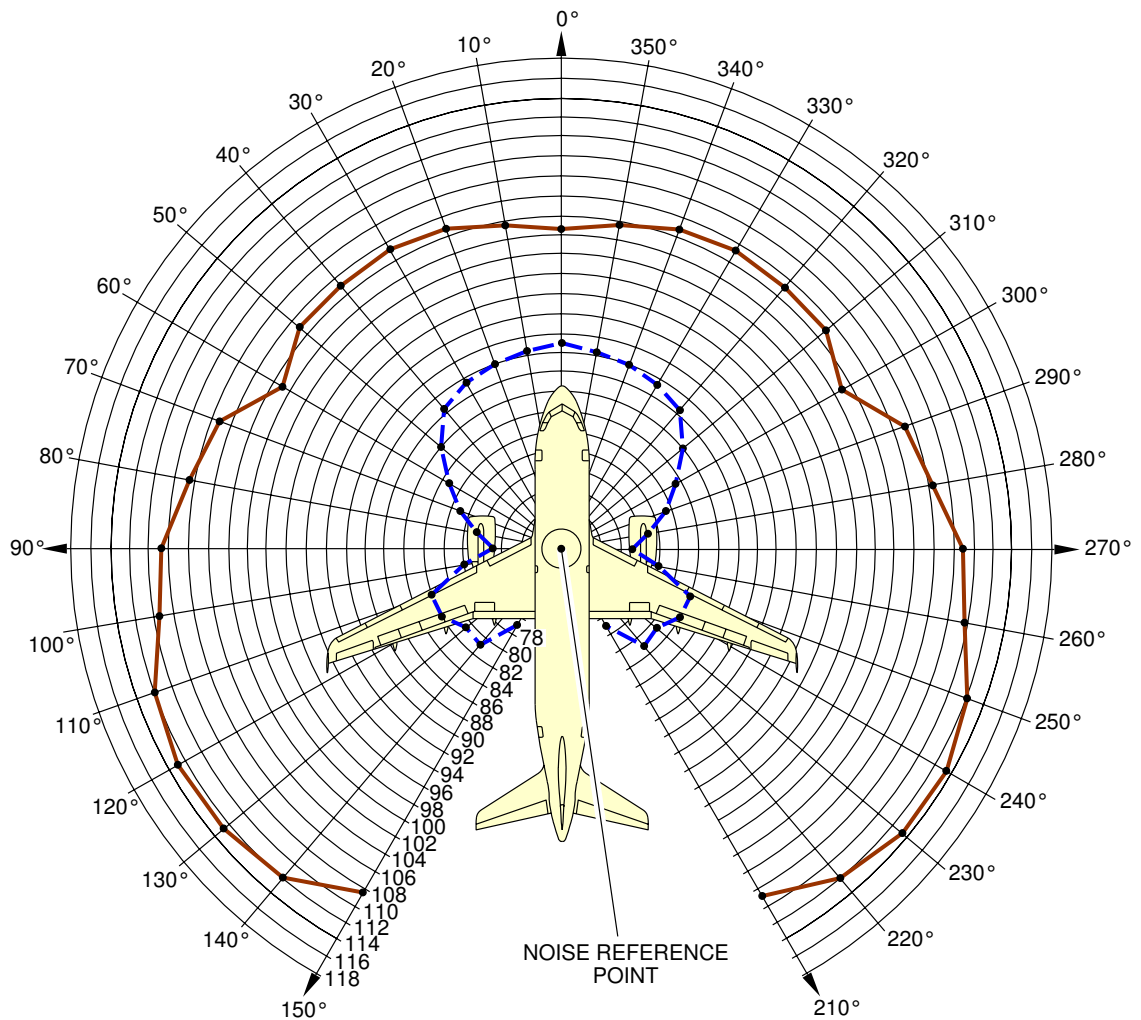


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Airport and Community Noise
CFM56-5B series engine
FIGURE 2

****ON A/C A319-100**

	GROUND IDLE	MAX THRUST POSSIBLE ON BRAKES
E.P.R	1.012	1.564
N1	25.2%	94.4%
CURVE		



N_AC_060201_1_0060101_01_00

Airport and Community Noise
IAE V2500 series engine
FIGURE 3



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

6-3-0 Danger Areas of Engines

****ON A/C A319-100**

Danger Areas of Engines

1. Danger Areas of the Engines.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

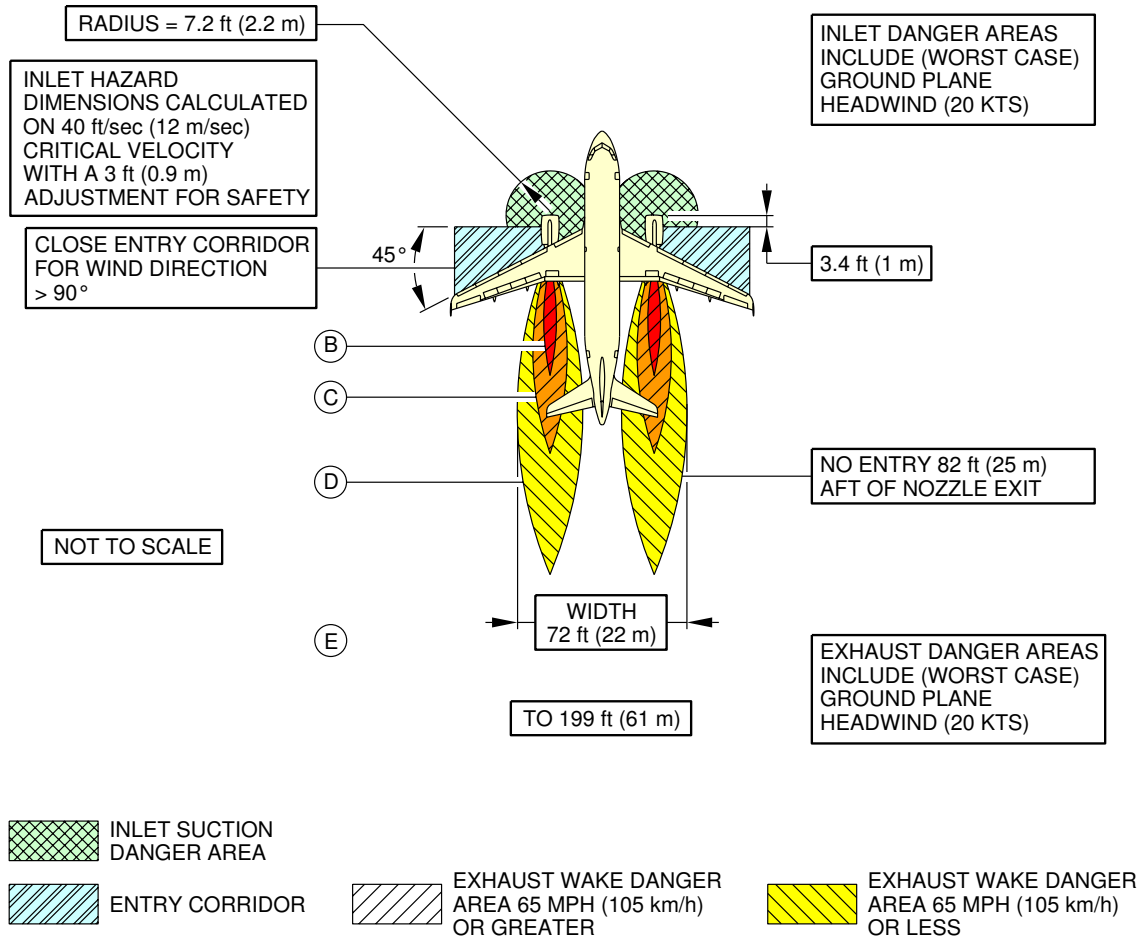
6-3-1 Ground Idle Power

****ON A/C A319-100**

Ground Idle Power

1. This section gives danger areas of the engines at ground idle power conditions.

****ON A/C A319-100**

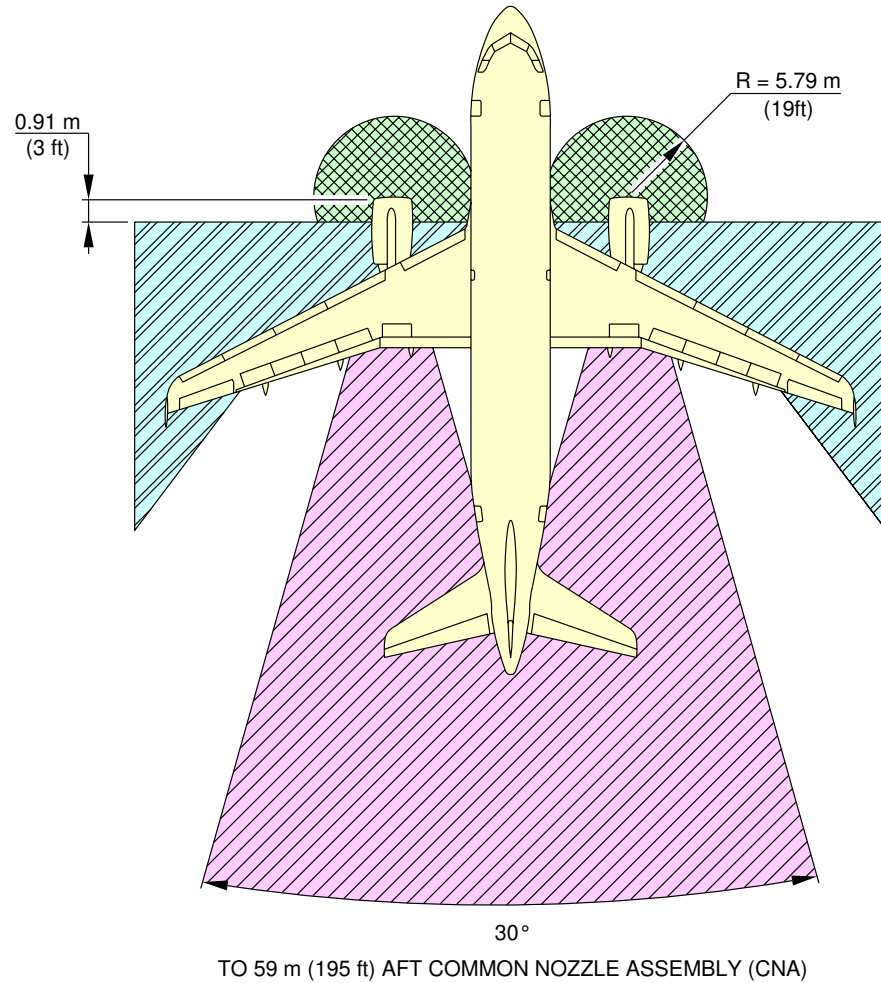


AREA	APPROX. WIND VELOCITY MPH (km/h)	POSSIBLE EFFECTS WITHIN DANGER ZONE BASED ON "RADIOLOGICAL DEFENSE" VOL. II, ARMED FORCES SPECIAL WEAPONS PROJECT, NOV. 1951
A	210-145 (338-233)	A MAN STANDING WILL BE PICKED UP AND THROWN; AIRCRAFT WILL BE COMPLETELY DESTROYED OR DAMAGED BEYOND ECONOMICAL REPAIR: COMPLETE DESTRUCTION OF FRAME OR BRICK HOMES.
B	145-105 (233-169)	A MAN STANDING FACE-ON WILL BE PICKED UP AND THROWN; DAMAGE NEARING TOTAL DESTRUCTION TO LIGHT INDUSTRIAL BUILDINGS OR RIGID STEEL FRAMING: CORRUGATED STEEL STRUCTURES LESS SEVERELY.
C	105-65 (169-105)	MODERATE DAMAGE TO LIGHT INDUSTRIAL BUILDINGS AND TRANSPORT-TYPE AIRCRAFT.
D	65-20 (105-32)	LIGHT TO MODERATE DAMAGE TO TRANSPORT-TYPE AIRCRAFT
E	< 20 (32)	BEYOND DANGER AREA

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Danger Areas of Engines
CFM56 series engine
FIGURE 1

****ON A/C A319-100**



-  INTAKE SUCTION DANGER AREA
-  ENTRY CORRIDOR
-  EXHAUST DANGER AREA

N_AC_060301_1_0040101_01_00

Danger Areas of Engines
IAE V2500 series engine
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

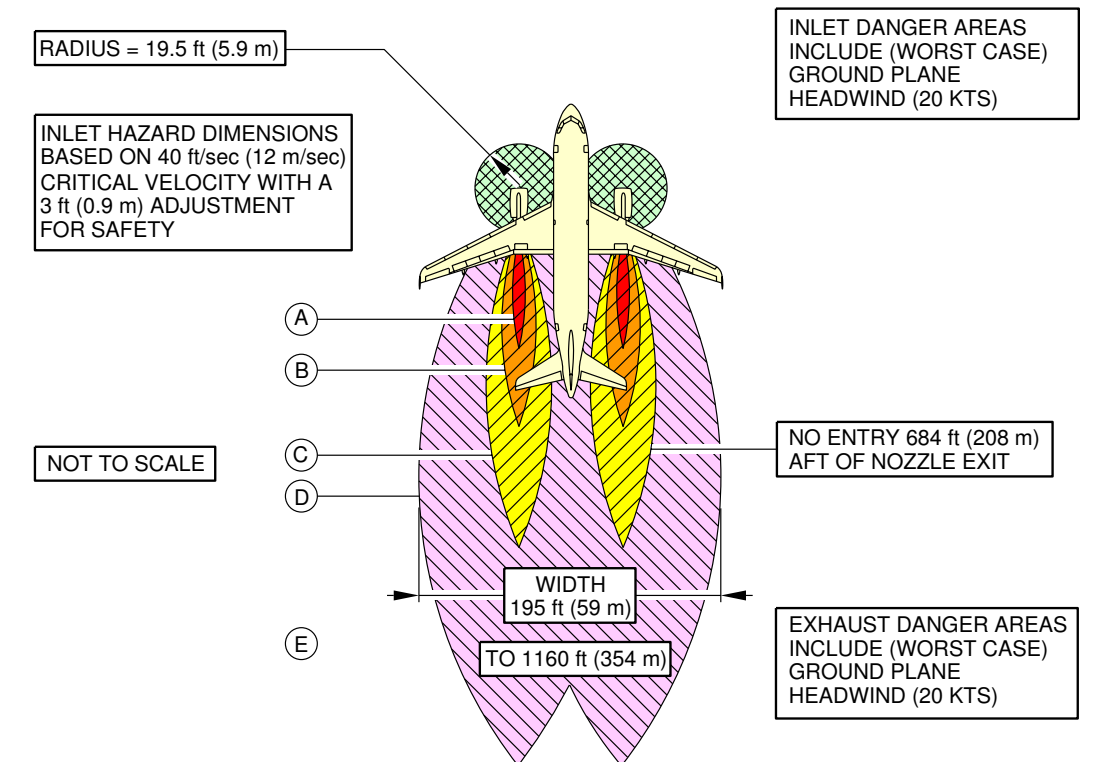
6-3-2 Takeoff Power

****ON A/C A319-100**

Takeoff Power

1. This section gives danger areas of the engines at max takeoff conditions.

****ON A/C A319-100**



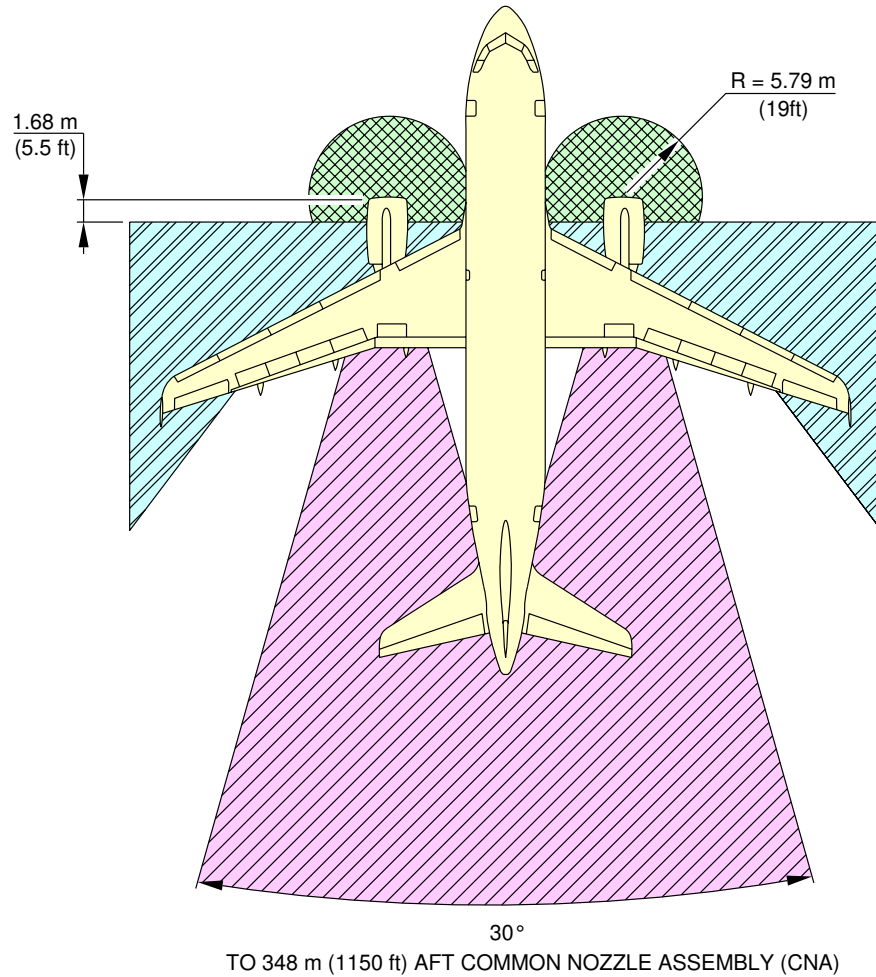
	INLET SUCTION DANGER AREA		EXHAUST WAKE DANGER AREA 65 MPH (105 km/h) OR GREATER		EXHAUST WAKE DANGER AREA 65 MPH (105 km/h) OR LESS
--	---------------------------	--	---	--	--

AREA	APPROX. WIND VELOCITY MPH (km/h)	POSSIBLE EFFECTS WITHIN DANGER ZONE BASED ON "RADIOLOGICAL DEFENSE" VOL. II, ARMED FORCES SPECIAL WEAPONS PROJECT, NOV. 1951
A	210-145 (338-233)	A MAN STANDING WILL BE PICKED UP AND THROWN; AIRCRAFT WILL BE COMPLETELY DESTROYED OR DAMAGED BEYOND ECONOMICAL REPAIR: COMPLETE DESTRUCTION OF FRAME OR BRICK HOMES.
B	145-105 (233-169)	A MAN STANDING FACE-ON WILL BE PICKED UP AND THROWN; DAMAGE NEARING TOTAL DESTRUCTION TO LIGHT INDUSTRIAL BUILDINGS OR RIGID STEEL FRAMING: CORRUGATED STEEL STRUCTURES LESS SEVERELY.
C	105-65 (169-105)	MODERATE DAMAGE TO LIGHT INDUSTRIAL BUILDINGS AND TRANSPORT-TYPE AIRCRAFT.
D	65-20 (105-32)	LIGHT TO MODERATE DAMAGE TO TRANSPORT-TYPE AIRCRAFT
E	< 20 (32)	BEYOND DANGER AREA

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Danger Areas of Engines
CFM56 series engine
FIGURE 1

****ON A/C A319-100**



-  INTAKE SUCTION DANGER AREA
-  ENTRY CORRIDOR
-  EXHAUST DANGER AREA

N_AC_060302_1_0040101_01_00

Danger Areas of Engines
IAE V2500 series engine
FIGURE 2



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

6-4-0 APU Exhaust Velocities and Temperatures

****ON A/C A319-100**

APU Exhaust Velocities and Temperatures

1. APU Exhaust Velocities and Temperatures.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

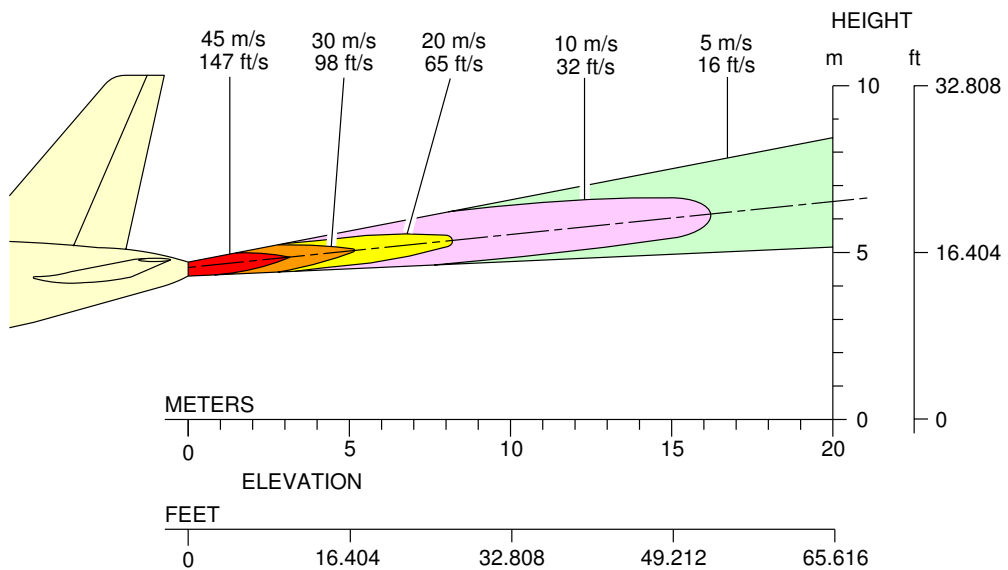
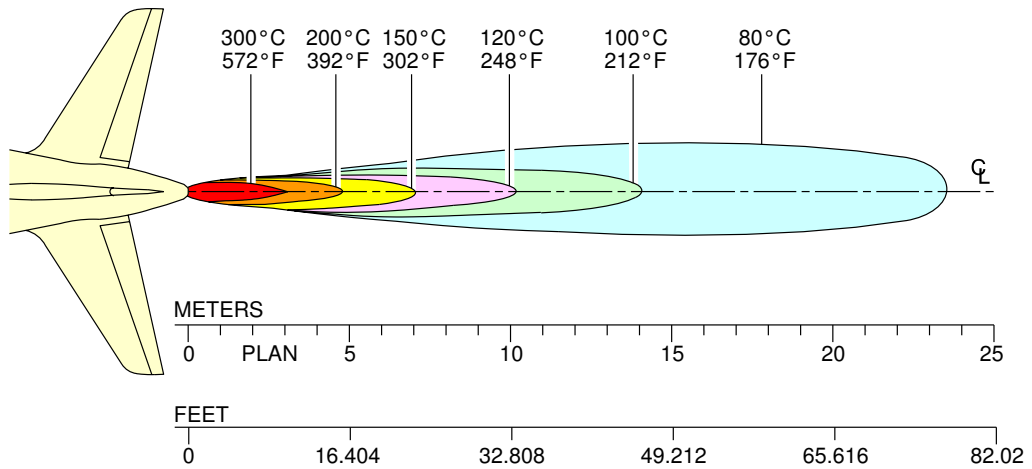
6-4-1 APU

****ON A/C A319-100**

APU - APIC & GARRETT

1. This section gives APU exhaust velocities and temperatures.

****ON A/C A319-100**



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Exhaust Velocities and Temperatures
APU – APIC & GARRETT
FIGURE 1

PAVEMENT DATA**7-1-0 General Information******ON A/C A319-100**General Information

1. General Information

This brief description of the pavement charts that follow will help in their use for airport planning.

To aid in the interpolation between the discrete values shown, each airplane configuration is shown with a minimum range of five loads on the main landing gear.

All curves on the charts represent data at a constant specified tire pressure with:

- The airplane loaded to the maximum ramp weight.
- The Center of Gravity (CG) at its maximum permissible aft position.

Pavement requirements for commercial airplanes are derived from the static analysis of loads imposed on the main landing gear struts.

The A/C codes are used for configuration management of chapter 07 only. There is no relation between these A/C codes and the ICAO A/C codes used for determining the airplane wing span and outer main gear wheel span as described in ICAO-Annex 14 Volume 1, Aerodrome Design and Operation Chapter 1.4, Table 1-1.

Section 7-2-0 presents basic data on the landing gear footprint configuration, maximum ramp weights and tire sizes and pressures.

Section 7-3-0 shows maximum vertical and horizontal pavement loads for certain critical conditions at the tire-ground interfaces.

Section 7-4-1 contain charts to find these loads throughout the stability limits of the airplane at rest on the pavement.

These main landing gear loads are used as the point of entry to the pavement design charts which follow, interpolating load values where necessary.

Section 7-5-1 uses procedures in Instruction Report No S-77-1 "Procedures for Development of CBR Design Curves", dated June 1977 and as modified according to the methods described in ICAO Aerodrome Design Manual, Part 3. Pavements, 2nd Edition, 1983, Section 1.1 (The ACN-PCN Method), and utilizing the alpha factors approved by ICAO in October 2007.

The report was prepared by the U.S. Army Corps Engineers Waterways Experiment Station, Soils and Pavement Laboratory, Vicksburg, Mississippi.

The line showing 10 000 coverages is used to calculate Aircraft Classification Number (ACN).

The procedure that follows is used to develop flexible pavement design curves such as shown in Section 7-5-1.

- With the scale for pavement thickness at the bottom and the scale for CBR at the top, an arbitrary line is drawn representing 10 000 coverages.
- Incremental values of the weight on the main landing gear are then plotted.
- Annual departure lines are drawn based on the load lines of the weight on the main landing gear that is shown on the graph.

Section 7-7-1 gives the rigid pavement design curves that have been prepared with the use of the Westergaard Equation. This is in general accordance with the procedures outlined in the Portland Cement Association publications, "Design of Concrete Airport Pavement", 1973 and "Computer Program for Airport Pavement Design", (Program PDILB), 1967 both by Robert G. Packard.

The procedure that follows is used to develop rigid pavement design curves such as shown in Section 7-7-1.

- With the scale for pavement thickness on the left and the scale for allowable working stress on the right, an arbitrary load line is drawn. This represents the maximum weight to be shown for the main landing gear .
- All values of the subgrade modulus (k values) are then plotted.
- Additional load lines for the incremental values of weight on the main landing gear are drawn on the basis of the curve for $k = 300$ already shown on the graph.

All Load Classification Number (LCN) curves shown in Section 7-6-1 and Section 7-8-2 have been developed from a computer program based on data provided in International Civil Aviation Organisation (ICAO) document 7920-AN/865/2, Aerodrome Manual, Part 2, "Aerodrome Physical Characteristics", Second Edition, 1965.

The flexible pavement charts in Section 7-6-1 show LCN against equivalent single wheel load and equivalent single wheel load against pavement thickness.

The rigid pavement charts in Section 7-8-2 show LCN against equivalent single wheel load and equivalent single wheel load against radius of relative stiffness.

Section 7-9-0 gives ACN data prepared in accordance to the ACN/PCN system as referenced in ICAO Annex 14, "Aerodromes", Volume 1 Fourth Edition July 2004, incorporating Amendments 1 to 6.

The ACN/PCN system gives a standardized international airplane/pavement rating system replacing the various S, T, TT, LCN, AUW, ISWL, etc..., rating systems used throughout the world.

The ACN is the Aircraft Classification Number and PCN is the corresponding Pavement Classification Number.

An aircraft having an ACN equal to or less than the PCN can operate without restriction on the pavement.

Numerically the ACN is two times the derived single wheel load expressed in thousands of kilograms. The derived single wheel is defined as the load on a single tire inflated to 1.25 Mpa (181 psi) that would have the same pavement requirements as the aircraft.

Computationally, the ACN/PCN system uses PCA program PDILB for rigid pavements and S-77-1 for flexible pavements to calculate ACN values.

The Airport Authority must decide on the method of pavement analysis and the results of their evaluation shown as follows:

PCN			
PAVEMENT TYPE	SUBGRADE CATEGORY	TIRE PRESSURE CATEGORY	EVALUATION METHOD
R – Rigid	A – High	W – No Limit	T – Technical
F – Flexible	B – Medium	X – To 1.5 Mpa (217 psi)	U – Using Aircraft
	C – Low	Y – To 1.0 Mpa (145 psi)	
	D – Ultra Low	Z – To 0.5 Mpa (73 psi)	

Section 7-9-1 shows the aircraft ACN values for flexible pavements.

The four subgrade categories are:

- A. High Strength CBR 15
- B. Medium Strength CBR 10
- C. Low Strength CBR 6
- D. Ultra Low Strength CBR 3

Section 7-9-2 shows the aircraft ACN values for rigid pavements.

The four subgrade categories are:

- A. High Strength Subgrade $k = 150 \text{ MN/m}^3$ (550 pci)
- B. Medium Strength Subgrade $k = 80 \text{ MN/m}^3$ (300 pci)
- C. Low Strength Subgrade $k = 40 \text{ MN/m}^3$ (150 pci)
- D. Ultra Low Strength Subgrade $k = 20 \text{ MN/m}^3$ (75 pci)

****ON A/C A319-100**

MODEL	WV	AIRCRAFT CODE
A319-111	12	C
A319-112	12	C
A319-113	12	C
A319-114	12	C
A319-131	12	C
A319-132	12	C
A319-115	12	D
A319-133	12	D
A319-133	00	E
A319-115	00	E
A319-111	00	F
A319-112	00	F
A319-113	00	F
A319-114	00	F
A319-131	00	F
A319-132	00	F
A319-111	08	G
A319-112	08	G
A319-113	08	G
A319-114	08	G
A319-131	08	G
A319-132	08	G
A319-115	08	H
A319-133	08	H
A319-111	11	I
A319-112	11	I
A319-113	11	I
A319-114	11	I
A319-131	11	I
A319-132	11	I
A319-115	11	J
A319-133	11	J
A319-111	09	K
A319-112	09	K
A319-113	09	K
A319-114	09	K
A319-131	09	K
A319-132	09	K
A319-115	09	L
A319-133	09	L
A319-115	03	M
A319-133	03	M
A319-111	03	N
A319-112	03	N
A319-113	03	N
A319-114	03	N
A319-131	03	N
A319-132	03	N
A319-115	04	O
A319-133	04	O
A319-111	04	P
A319-112	04	P
A319-113	04	P
A319-114	04	P
A319-131	04	P
A319-132	04	P

MODEL	WV	AIRCRAFT CODE
A319-115	01	Q
A319-133	01	Q
A319-111	01	R
A319-112	01	R
A319-113	01	R
A319-114	01	R
A319-131	01	R
A319-132	01	R
A319-112-CJ	05	S
A319-114-CJ	05	S
A319-115-CJ	05	S
A319-132-CJ	05	S
A319-133-CJ	05	S
A319-115	05	T
A319-133	05	T
A319-111	05	U
A319-112	05	U
A319-113	05	U
A319-114	05	U
A319-131	05	U
A319-132	05	U
A319-111	06	V
A319-112	06	V
A319-113	06	V
A319-114	06	V
A319-131	06	V
A319-132	06	V
A319-115	06	W
A319-133	06	W
A319-115	07	X
A319-133	07	X
A319-111	07	Y
A319-112	07	Y
A319-113	07	Y
A319-114	07	Y
A319-131	07	Y
A319-132	07	Y
A319-112-CJ	02	Z
A319-114-CJ	02	Z
A319-115-CJ	02	Z
A319-132-CJ	02	Z
A319-133-CJ	02	Z
A319-115	02	AA
A319-133	02	AA
A319-111	02	AB
A319-112	02	AB
A319-113	02	AB
A319-114	02	AB
A319-131	02	AB
A319-132	02	AB
A319-111-CJ	10	AC
A319-112-CJ	10	AC
A319-113-CJ	10	AC
A319-114-CJ	10	AC
A319-131-CJ	10	AC
A319-132-CJ	10	AC

NOTE: FOR WEIGHT VARIANT DEFINITION, REFER TO CHAPTER 02-01-01.

NOTE: THE A/C CODES ARE USED FOR CONFIGURATION MANAGEMENT OF CHAPTER 07 ONLY.THERE IS NO RELATION BETWEEN THESE A/C CODES AND THE ICAO A/C CODES USED FOR DETERMINING THE AIRPLANE WING SPAN AND OUTER MAIN GEAR WHEEL SPAN AS DESCRIBED IN ICAO-ANNEX 14 VOLUME 1, AERODROME DESIGN AND OPERATION CHAPTER 1.4, TABLE 1-1. N_AC_070100_1_0020101_01_00

Aircraft Codes
FIGURE 1

7-2-0 Landing Gear Footprint

****ON A/C A319-100**

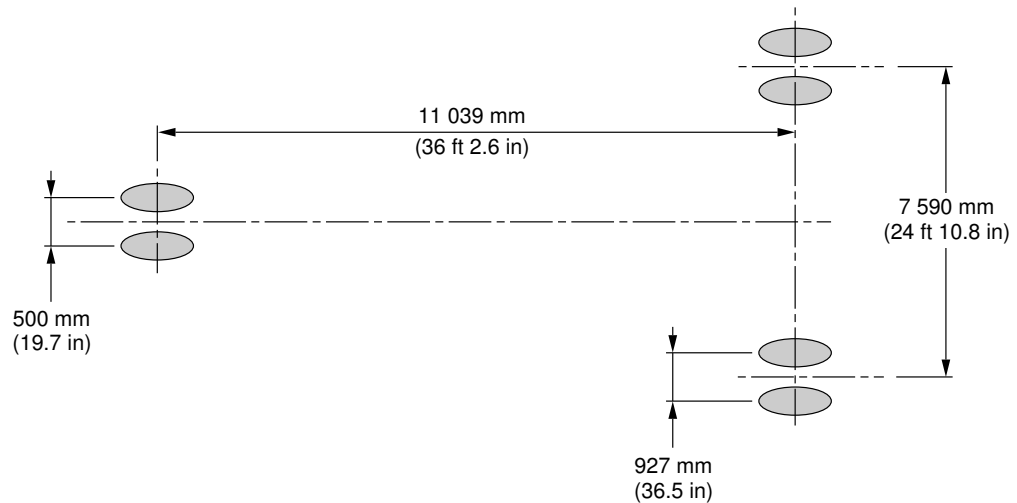
Landing Gear Footprint

1. This section gives Landing Gear Footprint.

I NOTE : For A/C Code definition, refer to chapter 7-1-0.

****ON A/C A319-100**

A/C CODE	C – D – E – F – G – H
PERCENTAGE OF WEIGHT ON MAIN GEAR GROUP	SEE SECTION 7-4-1
NOSE GEAR TIRE SIZE	30 x 8.8 R15 (30 x 8.8 – 15)
NOSE GEAR TIRE PRESSURE	11.4 bar (165 psi)
MAIN GEAR TIRE SIZE	46 x 17 R20 (46 x 16 – 20)
MAIN GEAR TIRE PRESSURE	11.9 bar (173 psi)

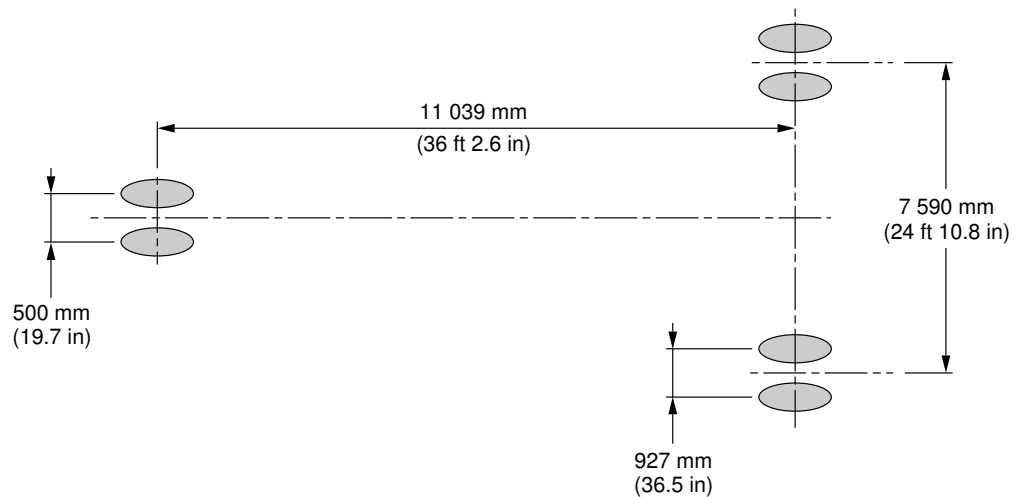


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Landing Gear Footprint
Landing Gear Footprint
FIGURE 1

****ON A/C A319-100**

A/C CODE	I – J – K – L – M – N – O – P
PERCENTAGE OF WEIGHT ON MAIN GEAR GROUP	SEE SECTION 7-4-1
NOSE GEAR TIRE SIZE	30 x 8.8 R15 (30 x 8.8 – 15)
NOSE GEAR TIRE PRESSURE	12.1 bar (175 psi)
MAIN GEAR TIRE SIZE	46 x 17 R20 (46 x 16 – 20)
MAIN GEAR TIRE PRESSURE	12.5 bar (181 psi)

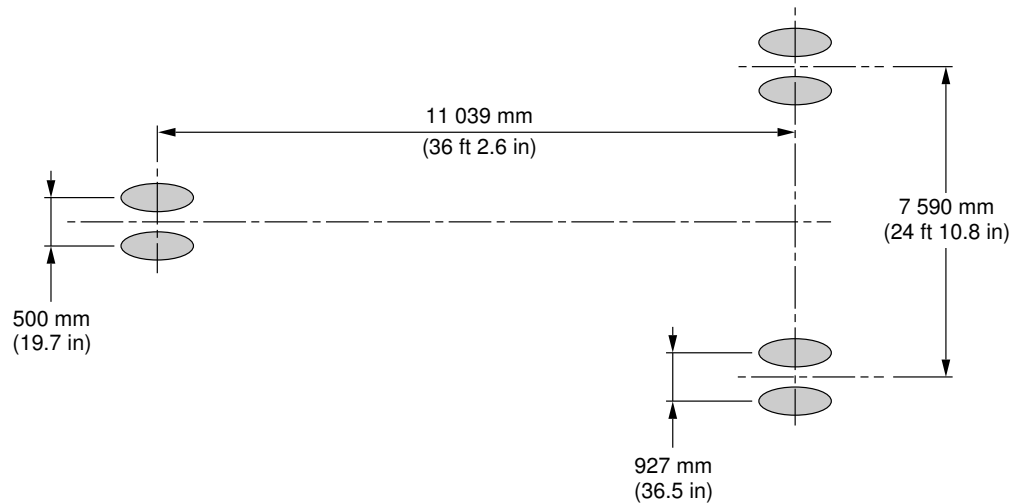


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Landing Gear Footprint
Landing Gear Footprint
FIGURE 2

****ON A/C A319-100**

A/C CODE	Q – R – T – U
PERCENTAGE OF WEIGHT ON MAIN GEAR GROUP	SEE SECTION 7-4-1
NOSE GEAR TIRE SIZE	30 x 8.8 R15 (30 x 8.8 – 15)
NOSE GEAR TIRE PRESSURE	12.5 bar (181 psi)
MAIN GEAR TIRE SIZE	46 x 17 R20 (46 x 16 – 20)
MAIN GEAR TIRE PRESSURE	12.9 bar (187 psi)

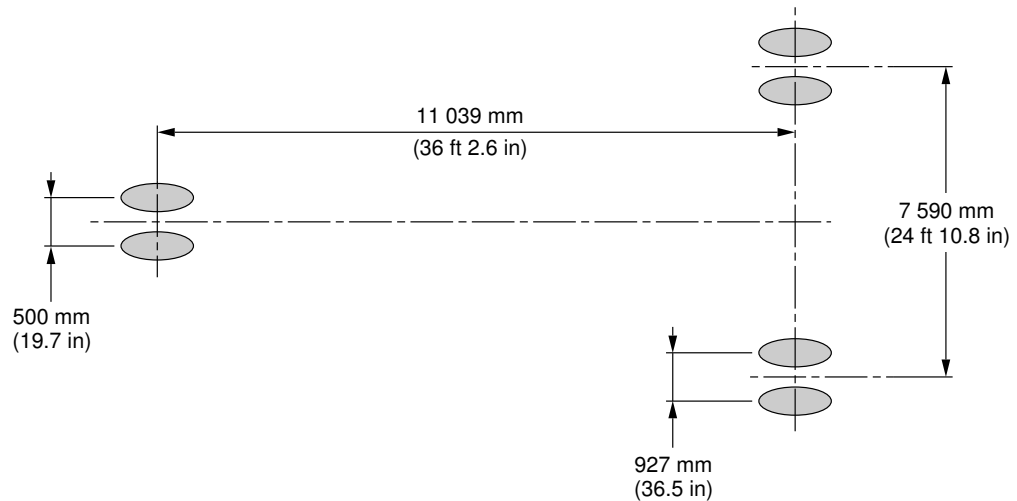


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Landing Gear Footprint
Landing Gear Footprint
FIGURE 3

****ON A/C A319-100**

A/C CODE	V – W
PERCENTAGE OF WEIGHT ON MAIN GEAR GROUP	SEE SECTION 7-4-1
NOSE GEAR TIRE SIZE	30 x 8.8 R15 (30 x 8.8 – 15)
NOSE GEAR TIRE PRESSURE	13.5 bar (196 psi)
MAIN GEAR TIRE SIZE	46 x 17 R20 (46 x 16 – 20)
MAIN GEAR TIRE PRESSURE	13.4 bar (194 psi)

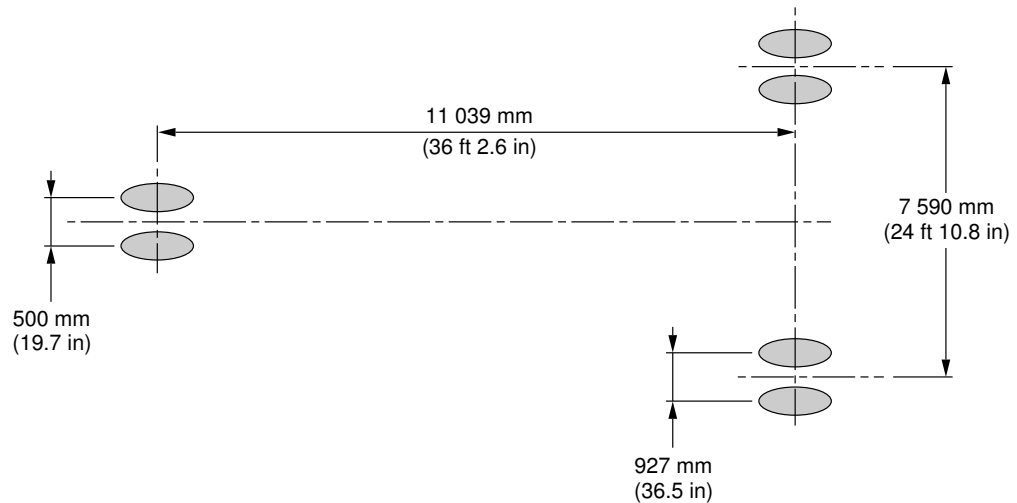


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Landing Gear Footprint
Landing Gear Footprint
FIGURE 4

****ON A/C A319-100**

A/C CODE	S – Z – AC
PERCENTAGE OF WEIGHT ON MAIN GEAR GROUP	SEE SECTION 7-4-1
NOSE GEAR TIRE SIZE	30 x 8.8 R15 (30 x 8.8 – 15)
NOSE GEAR TIRE PRESSURE	13.9 bar (202 psi)
MAIN GEAR TIRE SIZE	46 x 17 R20 (46 x 16 – 20)
MAIN GEAR TIRE PRESSURE	13.8 bar (200 psi)

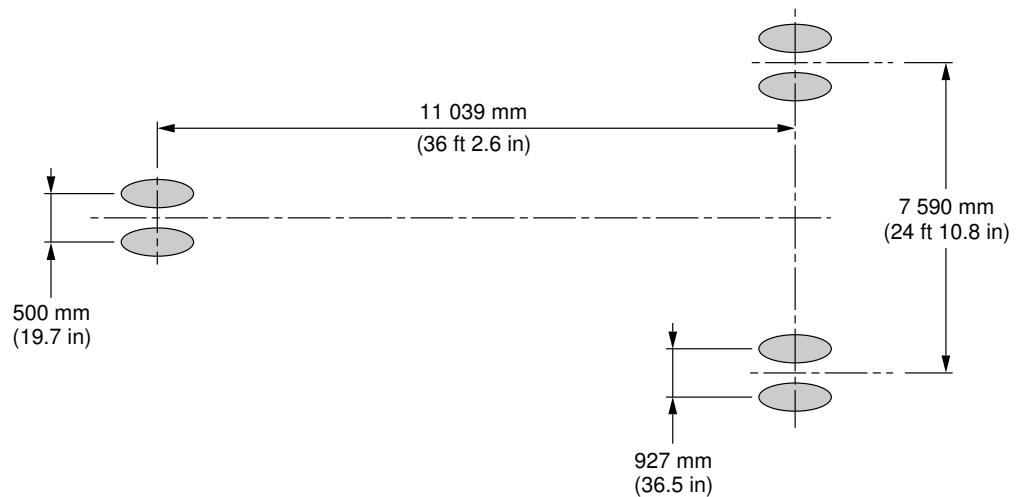


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Landing Gear Footprint
FIGURE 5

****ON A/C A319-100**

A/C CODE	X – Y – AA – AB
PERCENTAGE OF WEIGHT ON MAIN GEAR GROUP	SEE SECTION 7-4-1
NOSE GEAR TIRE SIZE	30 x 8.8 R15 (30 x 8.8 – 15)
NOSE GEAR TIRE PRESSURE	13.2 bar (191 psi)
MAIN GEAR TIRE SIZE	46 x 17 R20 (46 x 16 – 20)
MAIN GEAR TIRE PRESSURE	13.8 bar (200 psi)



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Landing Gear Footprint
FIGURE 6

7-3-0 Maximum Pavement Loads

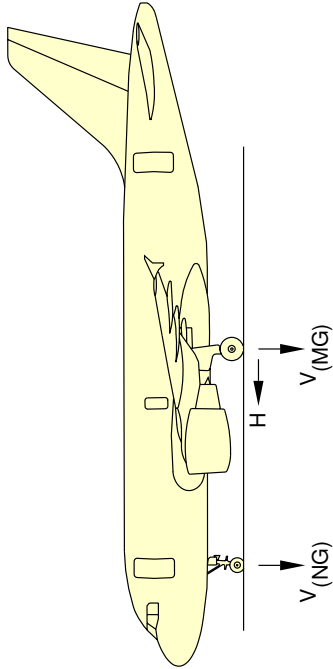
****ON A/C A319-100**

Maximum Pavement Loads

1. This section gives Maximum Pavement Loads.

I NOTE : For A/C code definition, refer to chapter 7-1-0.

**ON A/C A319-100



1	2	3	4	5	6
A/C CODE	MAXIMUM RAMP WEIGHT	STATIC LOAD AT MOST FWD CG (1)	STATIC BRAKING @ 10 ft/s ² DECELERATION	STATIC LOAD AT MAX AFT CG (2)	STEADY BRAKING @ 10 ft/s ² DECELERATION COEFFICIENT = 0.8
	lb kg	lb kg	lb kg	lb kg	lb kg
C	137 575 62 400	23 625 10 720	36 500 16 550	63 725 28 900	21 375 9 700
D	137 575 62 400	20 200 9 170	33 075 15 000	62 900 28 530	21 375 9 700
E	141 975 64 400	20 500 9 300	33 750 15 310	64 925 29 450	22 075 10 010

V (NG) MAXIMUM VERTICAL NOSE GEAR GROUND LOAD AT MOST FORWARD CG
V (MG) MAXIMUM VERTICAL MAIN GEAR GROUND LOAD AT MOST AFT CG
H MAXIMUM HORIZONTAL GROUND LOAD FROM BRAKING
A/C CODE

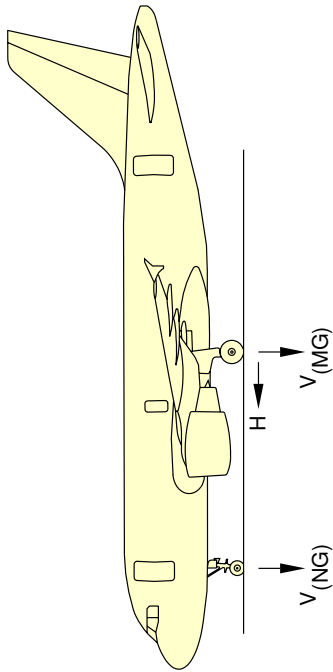
(1) C MRW = 62 400 kg FWD CG = 14 % MAC AT A/C WEIGHT = 62 400 kg
D MRW = 62 400 kg FWD CG = 20.4 % MAC AT A/C WEIGHT = 62 400 kg
E MRW = 64 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 64 400 kg
(2) C MRW = 62 400 kg AFT CG = 39 % MAC AT A/C WEIGHT = 62 400 kg
D MRW = 62 400 kg AFT CG = 36 % MAC AT A/C WEIGHT = 62 400 kg
E MRW = 64 400 kg AFT CG = 36 % MAC AT A/C WEIGHT = 64 400 kg

NOTE: ALL LOADS CALCULATED USING AIRPLANE MAXIMUM RAMP WEIGHT

N_AC_070300_1_0230101_01_00

Maximum Pavement Loads
FIGURE 1

****ON A/C A319-100**



1	2		3		4		5		6	
	MAXIMUM RAMP WEIGHT		STATIC LOAD AT MOST FWD CG (1)		STATIC BRAKING @ 10 ft/s² DECELERATION		STATIC LOAD AT MAX AFT CG (2)		STEADY BRAKING @ 10 ft/s² DECELERATION COEFFICIENT = 0.8	
A/C CODE	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
F	141 975	64 400	20 500	9 300	33 750	15 310	65 775	29 830	22 075	10 010
G	141 975	64 400	20 500	9 300	33 750	15 310	65 775	29 830	22 075	10 010
H	141 975	64 400	20 500	9 300	33 750	15 310	64 925	29 450	22 075	10 010
									51 925	23 560

V (NG) MAXIMUM VERTICAL NOSE GEAR GROUND LOAD AT MOST FORWARD CG
V (MG) MAXIMUM VERTICAL MAIN GEAR GROUND LOAD AT MOST AFT CG
H MAXIMUM HORIZONTAL GROUND LOAD FROM BRAKING

A/C CODE

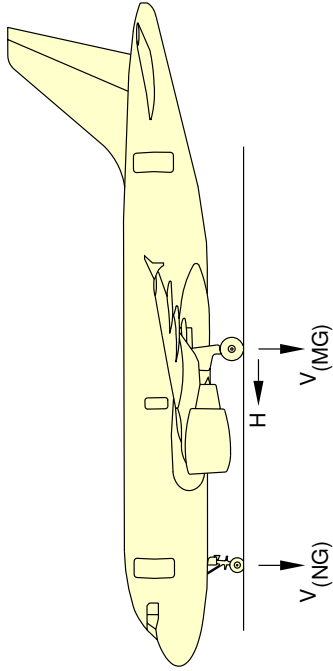
(1) F MRW = 64 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 64 400 kg
G MRW = 64 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 64 400 kg
H MRW = 64 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 64 400 kg
(2) F MRW = 64 400 kg AFT CG = 39 % MAC AT A/C WEIGHT = 64 400 kg
G MRW = 64 400 kg AFT CG = 39 % MAC AT A/C WEIGHT = 64 400 kg
H MRW = 64 400 kg AFT CG = 36 % MAC AT A/C WEIGHT = 64 400 kg

NOTE: ALL LOADS CALCULATED USING AIRPLANE MAXIMUM RAMP WEIGHT

N_AC_070300_1_0240101_01_00

Maximum Pavement Loads
FIGURE 2

**ON A/C A319-100



1	2	3	4	5	6
A/C CODE	MAXIMUM RAMP WEIGHT	STATIC LOAD AT MOST FWD CG (1)	STATIC BRAKING @ 10 ft/s² DECELERATION	STATIC LOAD AT MAX AFT CG (2)	STEADY BRAKING @ 10 ft/s² DECELERATION COEFFICIENT = 0.8
	lb kg	lb kg	lb kg	lb kg	lb kg
I	146 375 66 400	21 125 9 580	34 800 15 780	67 750 30 730	22 750 10 320
J	146 375 66 400	21 125 9 580	34 800 15 780	66 950 30 360	22 750 10 320
K	146 375 66 400	21 125 9 580	34 800 15 780	67 750 30 730	22 750 10 320

V (NG) MAXIMUM VERTICAL NOSE GEAR GROUND LOAD AT MOST FORWARD CG
V (MG) MAXIMUM VERTICAL MAIN GEAR GROUND LOAD AT MOST AFT CG
H MAXIMUM HORIZONTAL GROUND LOAD FROM BRAKING

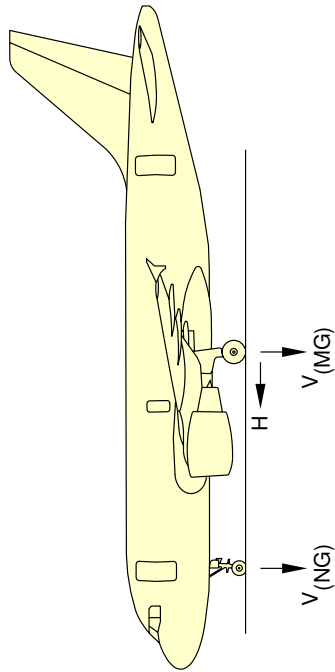
A/C CODE
(1) I MRW = 66 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 66 400 kg
J MRW = 66 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 66 400 kg
K MRW = 66 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 66 400 kg
(2) I MRW = 66 400 kg AFT CG = 38.8 % MAC AT A/C WEIGHT = 66 400 kg
J MRW = 66 400 kg AFT CG = 36 % MAC AT A/C WEIGHT = 66 400 kg
K MRW = 66 400 kg AFT CG = 38.8 % MAC AT A/C WEIGHT = 66 400 kg

NOTE: ALL LOADS CALCULATED USING AIRPLANE MAXIMUM RAMP WEIGHT

N_AC_070300_1_0250101_01_00

Maximum Pavement Loads
FIGURE 3

**ON A/C A319-100



1	2	3	4	5	6
A/C CODE	MAXIMUM RAMP WEIGHT	STATIC LOAD AT MOST FWD CG (1)	STATIC BRAKING @ 10 ft/s ² DECELERATION	STATIC LOAD AT MAX AFT CG (2)	STEADY BRAKING @ 10 ft/s ² DECELERATION COEFFICIENT = 0.8
	lb kg	lb kg	lb kg	lb kg	lb kg
L	146 375 66 400	21 125 9 580	34 800 15 780	66 950 30 360	22 750 10 320
M	150 800 68 400	21 750 9 860	35 775 16 230	68 975 31 280	23 425 10 630
N	150 800 68 400	21 750 9 860	35 775 16 230	69 600 31 570	23 425 10 630

V (NG) MAXIMUM VERTICAL NOSE GEAR GROUND LOAD AT MOST FORWARD CG
V (MG) MAXIMUM VERTICAL MAIN GEAR GROUND LOAD AT MOST AFT CG
H MAXIMUM HORIZONTAL GROUND LOAD FROM BRAKING

A/C CODE

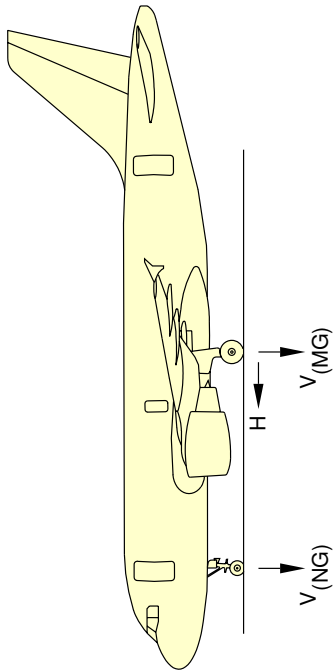
(1)	L	MRW = 66 400 kg	FWD CG = 21 % MAC AT A/C WEIGHT = 66 400 kg
	M	MRW = 68 400 kg	FWD CG = 21 % MAC AT A/C WEIGHT = 68 400 kg
	N	MRW = 68 400 kg	FWD CG = 21 % MAC AT A/C WEIGHT = 68 400 kg
(2)	L	MRW = 66 400 kg	AFT CG = 36 % MAC AT A/C WEIGHT = 66 400 kg
	M	MRW = 68 400 kg	AFT CG = 36 % MAC AT A/C WEIGHT = 68 400 kg
	N	MRW = 68 400 kg	AFT CG = 38.1 % MAC AT A/C WEIGHT = 68 400 kg

NOTE: ALL LOADS CALCULATED USING AIRPLANE MAXIMUM RAMP WEIGHT

N_AC_070300_1_0260101_01_00

Maximum Pavement Loads
FIGURE 4

**ON A/C A319-100



1	2	3	4	5	6
A/C CODE	MAXIMUM RAMP WEIGHT	STATIC LOAD AT MOST FWD CG (1)	STATIC BRAKING @ 10 ft/s ² DECELERATION	STATIC LOAD AT MAX AFT CG (2)	STEADY BRAKING @ 10 ft/s ² DECELERATION COEFFICIENT = 0.8
	lb kg	lb kg	lb kg	lb kg	lb kg
O	150 800 68 400	21 750 9 860	35 800 16 240	68 975 31 280	23 425 10 630
P	150 800 68 400	21 700 9 840	35 725 16 210	69 625 31 580	23 425 10 630
Q	155 200 70 400	22 325 10 120	36 750 16 660	71 025 32 210	24 125 10 940
					55 175 25 020
					55 700 25 260
					56 800 25 770

V (NG) MAXIMUM VERTICAL NOSE GEAR GROUND LOAD AT MOST FORWARD CG
V (MG) MAXIMUM VERTICAL MAIN GEAR GROUND LOAD AT MOST AFT CG
H MAXIMUM HORIZONTAL GROUND LOAD FROM BRAKING
A/C CODE

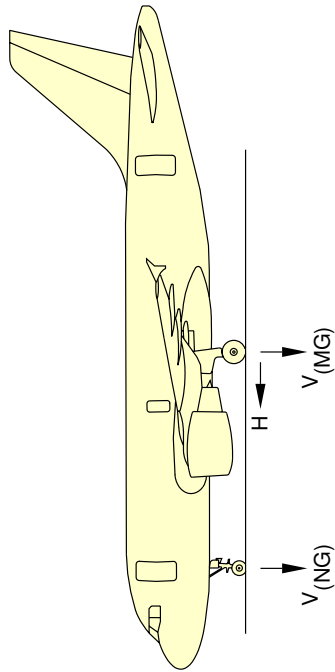
(1) O MRW = 68 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 68 400 kg
P MRW = 68 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 68 400 kg
Q MRW = 70 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 70 400 kg
(2) O MRW = 68 400 kg AFT CG = 36 % MAC AT A/C WEIGHT = 68 400 kg
P MRW = 68 400 kg AFT CG = 38.1 % MAC AT A/C WEIGHT = 68 400 kg
Q MRW = 70 400 kg AFT CG = 36 % MAC AT A/C WEIGHT = 70 400 kg

NOTE: ALL LOADS CALCULATED USING AIRPLANE MAXIMUM RAMP WEIGHT

N_AC_070300_1_0270101_01_00

Maximum Pavement Loads
FIGURE 5

**ON A/C A319-100



1	2	3	4	5	6
A/C CODE	MAXIMUM RAMP WEIGHT	STATIC LOAD AT MOST FWD CG (1)	STATIC BRAKING @ 10 ft/s ² DECELERATION	STATIC LOAD AT MAX AFT CG (2)	STEADY BRAKING @ 10 ft/s ² DECELERATION
	lb kg	lb kg	lb kg	lb kg	lb kg
R	155 200 70 400	22 325 10 120	36 725 16 660	71 475 32 420	24 125 10 940
T	155 200 70 400	22 325 10 120	36 750 16 660	71 025 32 210	24 125 10 940
U	155 200 70 400	22 325 10 120	36 725 16 660	71 475 32 420	24 125 10 940

V (NG) MAXIMUM VERTICAL NOSE GEAR GROUND LOAD AT MOST FORWARD CG
V (MG) MAXIMUM VERTICAL MAIN GEAR GROUND LOAD AT MOST AFT CG
H MAXIMUM HORIZONTAL GROUND LOAD FROM BRAKING
A/C CODE

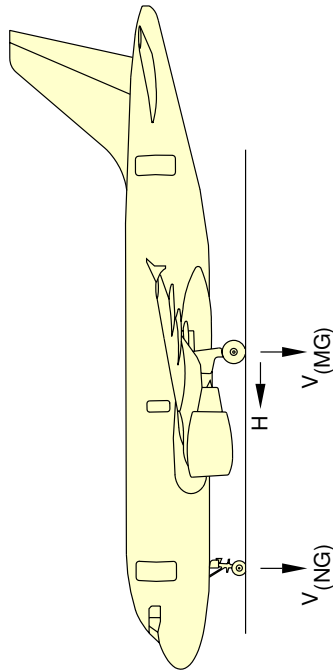
(1) R MRW = 70 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 70 400 kg
T MRW = 70 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 70 400 kg
U MRW = 70 400 kg FWD CG = 21 % MAC AT A/C WEIGHT = 70 400 kg
(2) R MRW = 70 400 kg AFT CG = 37.5 % MAC AT A/C WEIGHT = 70 400 kg
T MRW = 70 400 kg AFT CG = 36 % MAC AT A/C WEIGHT = 70 400 kg
U MRW = 70 400 kg AFT CG = 37.5 % MAC AT A/C WEIGHT = 70 400 kg

NOTE: ALL LOADS CALCULATED USING AIRPLANE MAXIMUM RAMP WEIGHT

N_AC_070300_1_0280101_01_00

Maximum Pavement Loads
FIGURE 6

**ON A/C A319-100



1	2	3	4	5	6
A/C CODE	MAXIMUM RAMP WEIGHT	STATIC LOAD AT MOST FWD CG (1)	STATIC BRAKING @ 10 ft/s ² DECELERATION	STATIC LOAD AT MAX AFT CG (2)	STEADY BRAKING @ 10 ft/s ² DECELERATION COEFFICIENT = 0.8
	lb kg	lb kg	lb kg	lb kg	lb kg
V	162 925 73 900	23 400 10 610	38 500 17 460	74 725 33 890	25 325 11 480
W	162 925 73 900	23 400 10 610	38 500 17 460	74 725 33 890	25 325 11 480
X	167 325 75 900	23 625 10 720	39 400 17 870	76 600 34 750	26 000 11 800

V (NG) MAXIMUM VERTICAL NOSE GEAR GROUND LOAD AT MOST FORWARD CG
V (MG) MAXIMUM VERTICAL MAIN GEAR GROUND LOAD AT MOST AFT CG
H MAXIMUM HORIZONTAL GROUND LOAD FROM BRAKING
A/C CODE

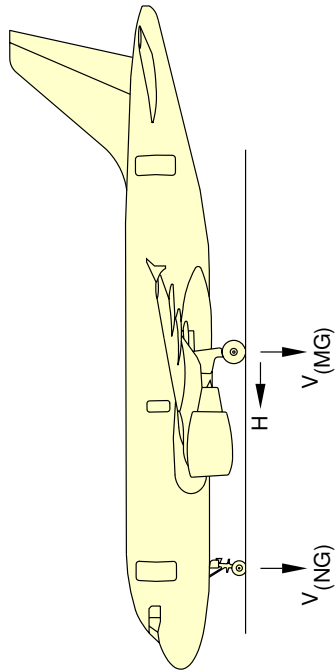
(1) V MRW = 73 900 kg FWD CG = 21 % MAC AT A/C WEIGHT = 73 900 kg
W MRW = 73 900 kg FWD CG = 21 % MAC AT A/C WEIGHT = 73 900 kg
X MRW = 75 900 kg FWD CG = 21 % MAC AT A/C WEIGHT = 74 500 kg
(2) V MRW = 73 900 kg AFT CG = 36.5 % MAC AT A/C WEIGHT = 73 900 kg
W MRW = 73 900 kg AFT CG = 36.5 % MAC AT A/C WEIGHT = 73 900 kg
X MRW = 75 900 kg AFT CG = 36 % MAC AT A/C WEIGHT = 75 900 kg

NOTE: ALL LOADS CALCULATED USING AIRPLANE MAXIMUM RAMP WEIGHT

N_AC_070300_1_0290101_01_00

Maximum Pavement Loads
FIGURE 7

**ON A/C A319-100



1	2	3	4	5	6
A/C CODE	MAXIMUM RAMP WEIGHT	STATIC LOAD AT MOST FWD CG (1)	STATIC BRAKING @ 10 ft/s ² DECELERATION	STATIC LOAD AT MAX AFT CG (2)	STEADY BRAKING @ 10 ft/s ² DECELERATION AT INSTANTANEOUS BRAKING COEFFICIENT = 0.8
	lb kg	lb kg	lb kg	lb kg	lb kg
Y	167 325 75 900	23 625 10 720	39 400 17 870	76 600 34 750	26 000 11 800
AA	167 325 75 900	23 625 10 720	39 400 17 870	76 600 34 750	26 000 11 800
AB	167 325 75 900	23 500 10 660	39 100 17 740	76 675 34 780	26 000 11 800

V (NG) MAXIMUM VERTICAL NOSE GEAR GROUND LOAD AT MOST FORWARD CG
V (MG) MAXIMUM VERTICAL MAIN GEAR GROUND LOAD AT MOST AFT CG
H MAXIMUM HORIZONTAL GROUND LOAD FROM BRAKING

A/C CODE

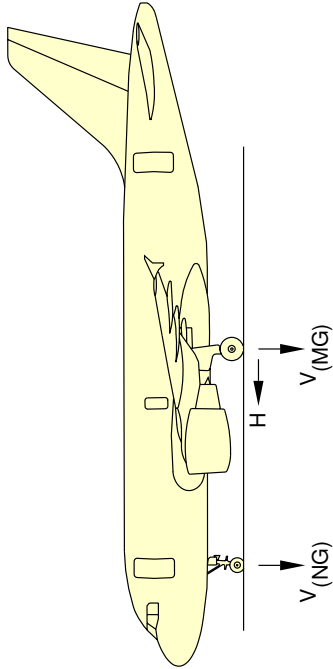
(1) Y MRW = 75 900 kg FWD CG = 21 % MAC AT A/C WEIGHT = 74 500 kg
AA MRW = 75 900 kg FWD CG = 21 % MAC AT A/C WEIGHT = 74 500 kg
AB MRW = 75 900 kg FWD CG = 21 % MAC AT A/C WEIGHT = 74 500 kg
(2) Y MRW = 75 900 kg AFT CG = 36 % MAC AT A/C WEIGHT = 75 900 kg
AA MRW = 75 900 kg AFT CG = 36 % MAC AT A/C WEIGHT = 75 900 kg
AB MRW = 75 900 kg AFT CG = 36 % MAC AT A/C WEIGHT = 75 900 kg

NOTE: ALL LOADS CALCULATED USING AIRPLANE MAXIMUM RAMP WEIGHT

N_AC_070300_1_0300101_01_00

Maximum Pavement Loads
FIGURE 8

**ON A/C A319-100



1	2	3	4	5	6
			VNG	VMG (PER STRUT)	H (PER STRUT)
A/C CODE	MAXIMUM RAMP WEIGHT	STATIC LOAD AT MOST FWD CG (1)	STATIC BRAKING @ 10 ft/s ² DECELERATION	STATIC LOAD AT MAX AFT CG (2)	STEADY BRAKING @ 10 ft/s ² DECELERATION AT INSTANTANEOUS BRAKING COEFFICIENT = 0.8
	lb kg	lb kg	lb kg	lb kg	lb kg
S	155 200 70 400	25 450 11 550	39 650 17 990	71 100 32 250	24 125 10 940
Z	167 525 75 900	23 500 10 660	39 100 17 740	76 675 34 780	26 000 11 800
AC	169 525 76 900	23 500 10 660	39 100 17 730	77 700 35 240	26 350 11 950

V (NG) MAXIMUM VERTICAL NOSE GEAR GROUND LOAD AT MOST FORWARD CG
V (MG) MAXIMUM VERTICAL MAIN GEAR GROUND LOAD AT MOST AFT CG
H MAXIMUM HORIZONTAL GROUND LOAD FROM BRAKING
A/C CODE

(1) S MRW = 70 400 kg FWD CG = 14 % MAC AT A/C WEIGHT = 67 500 kg
Z MRW = 75 900 kg FWD CG = 21 % MAC AT A/C WEIGHT = 74 500 kg
AC MRW = 76 900 kg FWD CG = 21 % MAC AT A/C WEIGHT = 74 500 kg
(2) S MRW = 70 400 kg AFT CG = 36 % MAC AT A/C WEIGHT = 70 400 kg
Z MRW = 75 900 kg AFT CG = 36 % MAC AT A/C WEIGHT = 75 900 kg
AC MRW = 76 900 kg AFT CG = 36 % MAC AT A/C WEIGHT = 76 900 kg

NOTE: ALL LOADS CALCULATED USING AIRPLANE MAXIMUM RAMP WEIGHT

N_AC_070300_1_0310101_01_00

Maximum Pavement Loads
FIGURE 9

7-4-0 Landing Gear Loading on Pavement

****ON A/C A319-100**

Landing Gear Loading on Pavement

1. General

In the example shown in Section 7-4-1 Landing Gear Loading on Pavement, A/C Code C, the Gross Aircraft Weight is 48 000 kg (105 825 lb) and the percentage of weight on the Main Landing Gear is 92.6 %.

For these conditions the total weight on the Main Landing Gear is 44 470 kg (98 025 lb).

7-4-1 Landing Gear Loading on Pavement

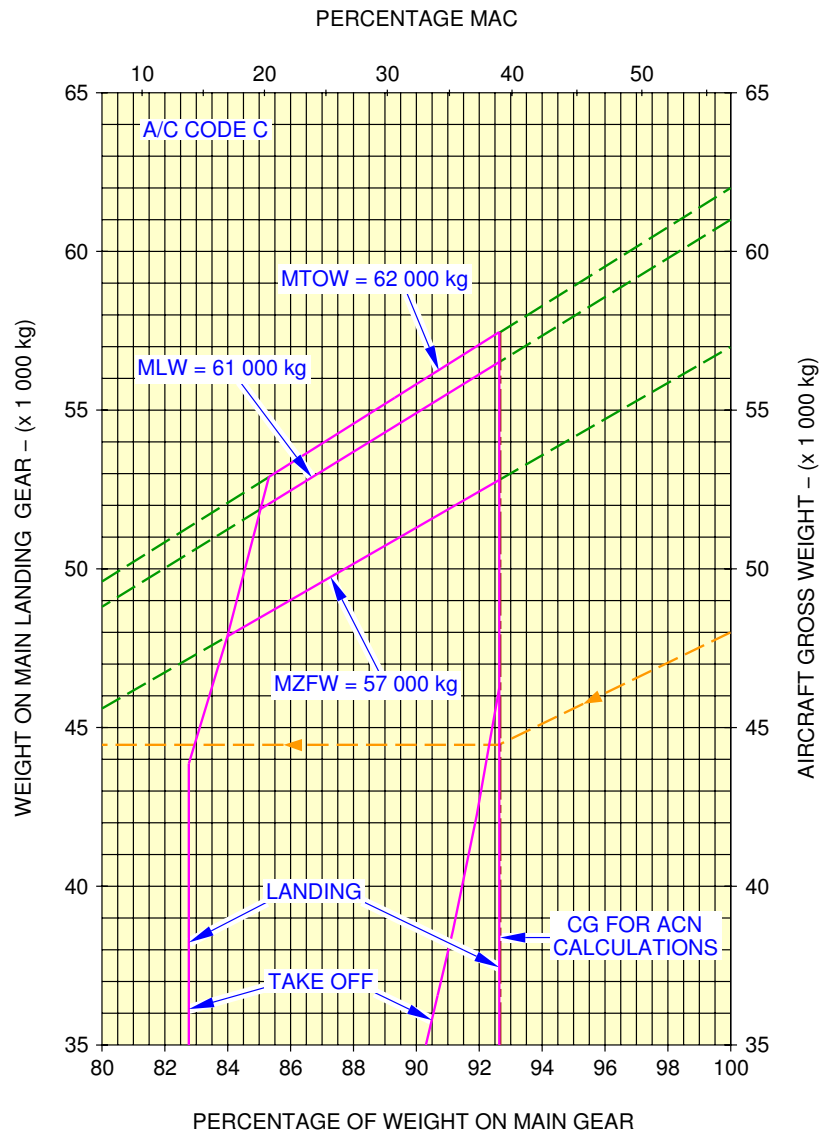
****ON A/C A319-100**

Landing Gear Loading on Pavement

1. This section gives Landing Gear Loading on Pavement.

I NOTE : For A/C Code definition, refer to chapter 7-1-0.

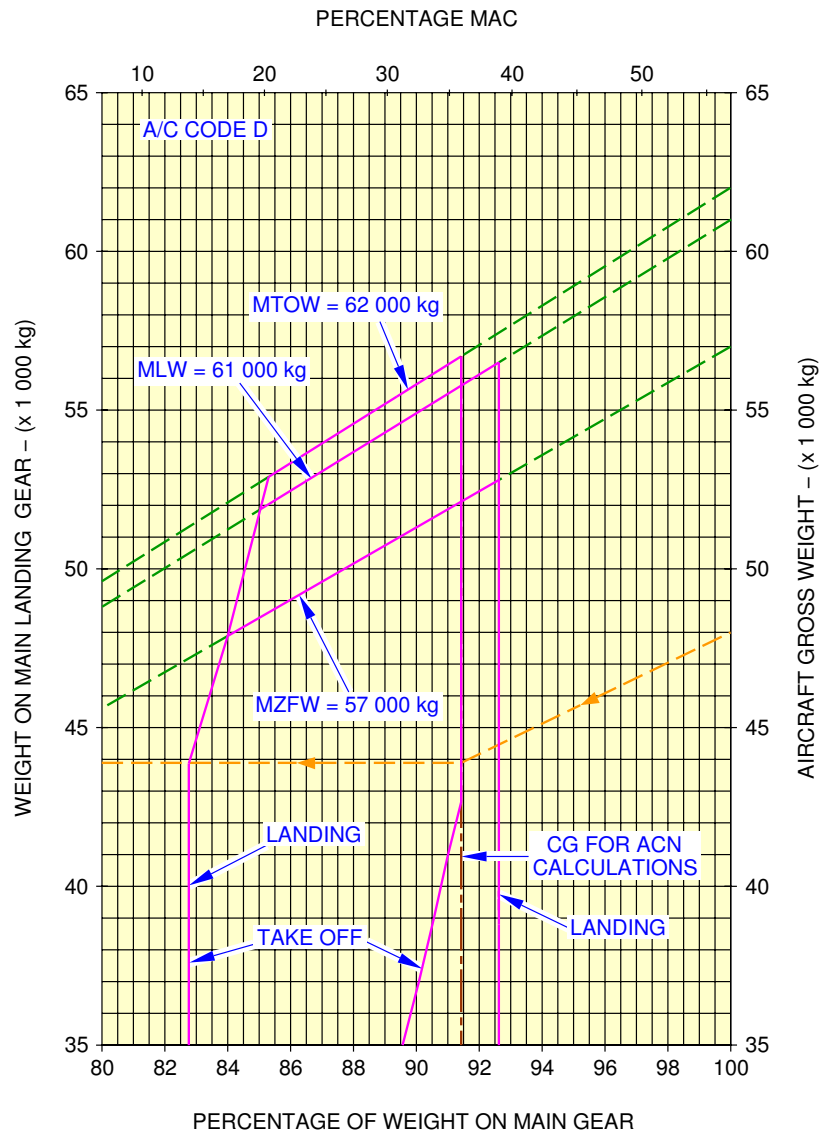
****ON A/C A319-100**



N_AC_070401_1_0380101_01_00

Landing Gear Loading on Pavement
FIGURE 1

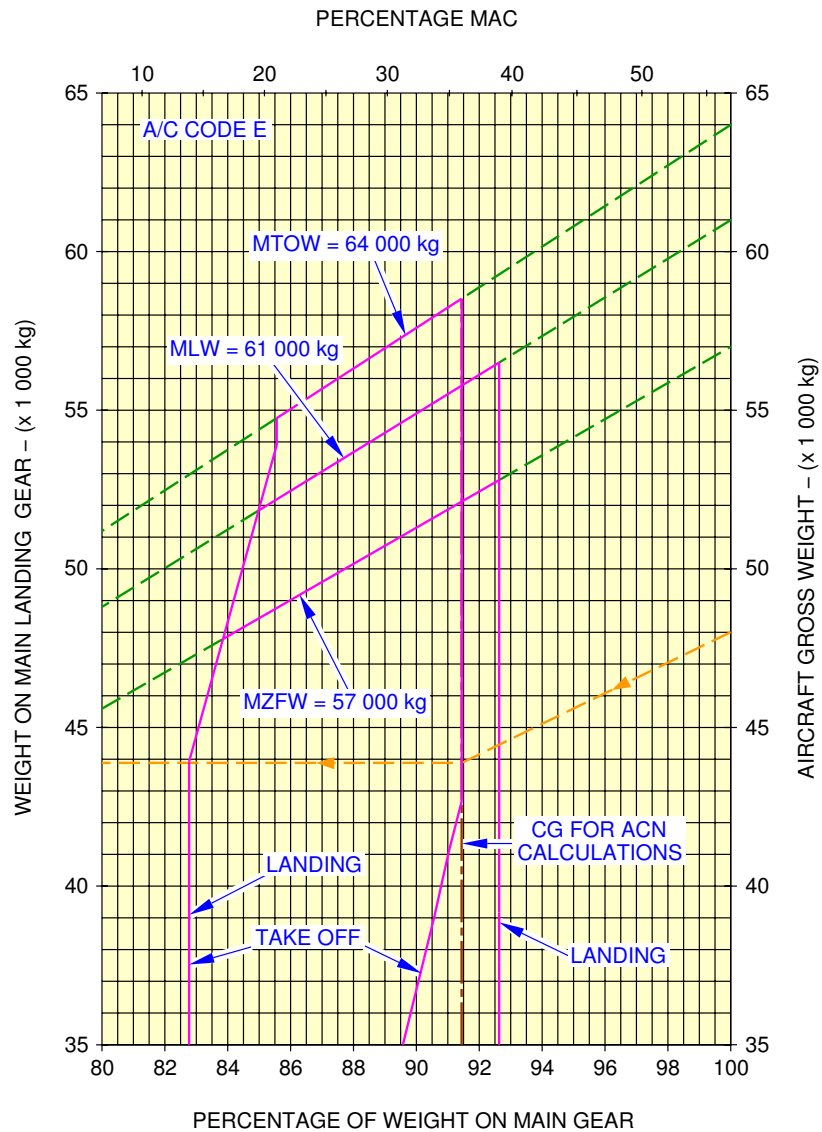
**ON A/C A319-100



N_AC_070401_1_0390101_01_00

Landing Gear Loading on Pavement
FIGURE 2

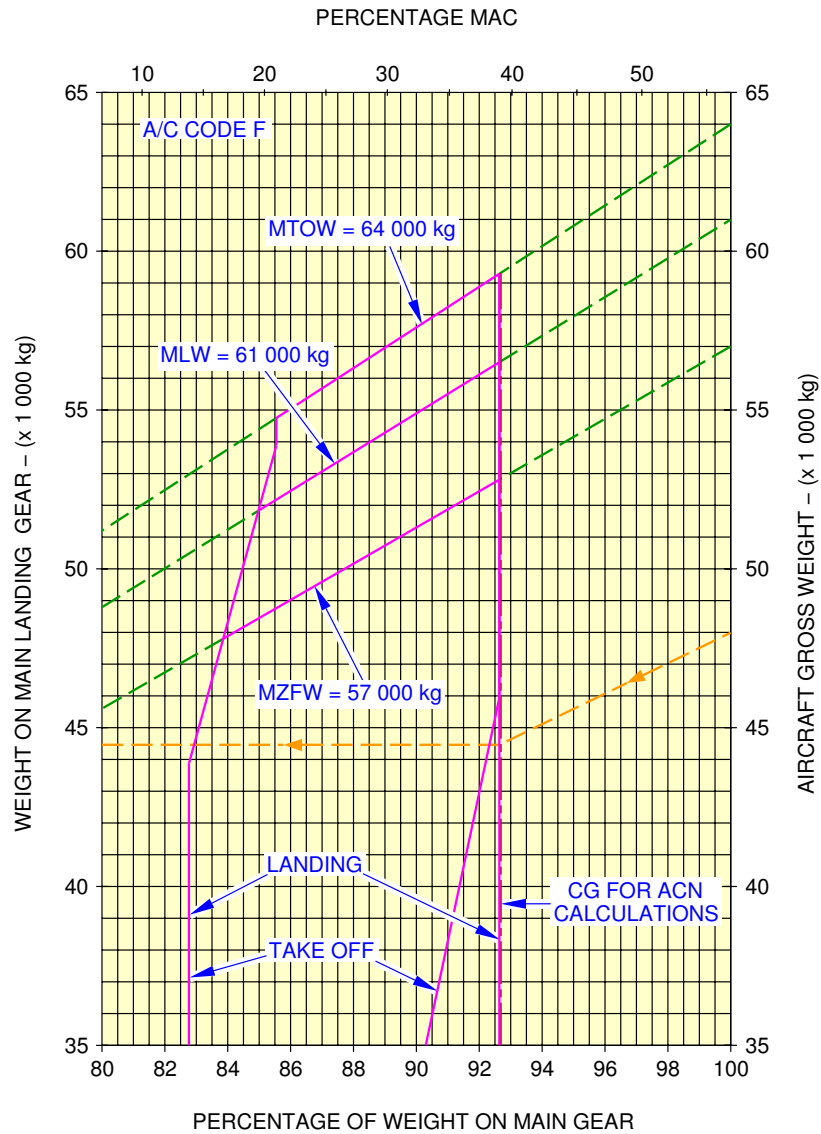
**ON A/C A319-100



N_AC_070401_1_0400101_01_00

Landing Gear Loading on Pavement
FIGURE 3

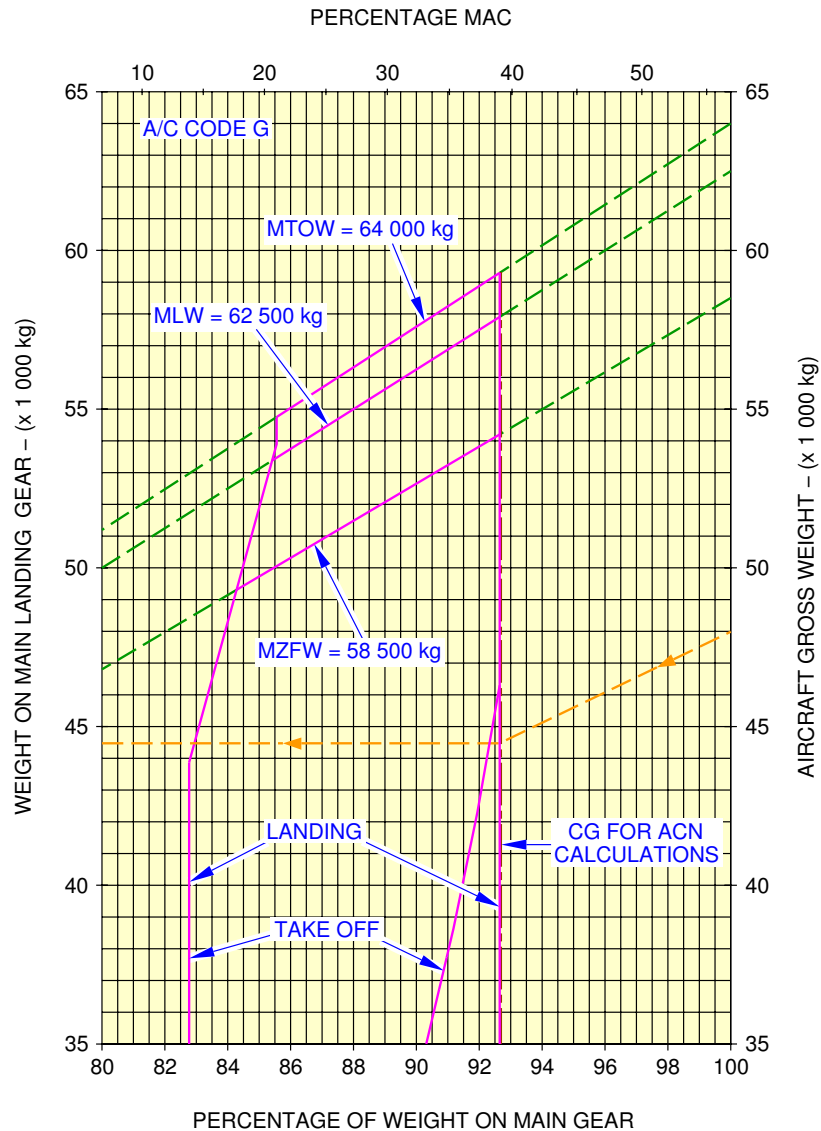
**ON A/C A319-100



N_AC_070401_1_0410101_01_00

Landing Gear Loading on Pavement
FIGURE 4

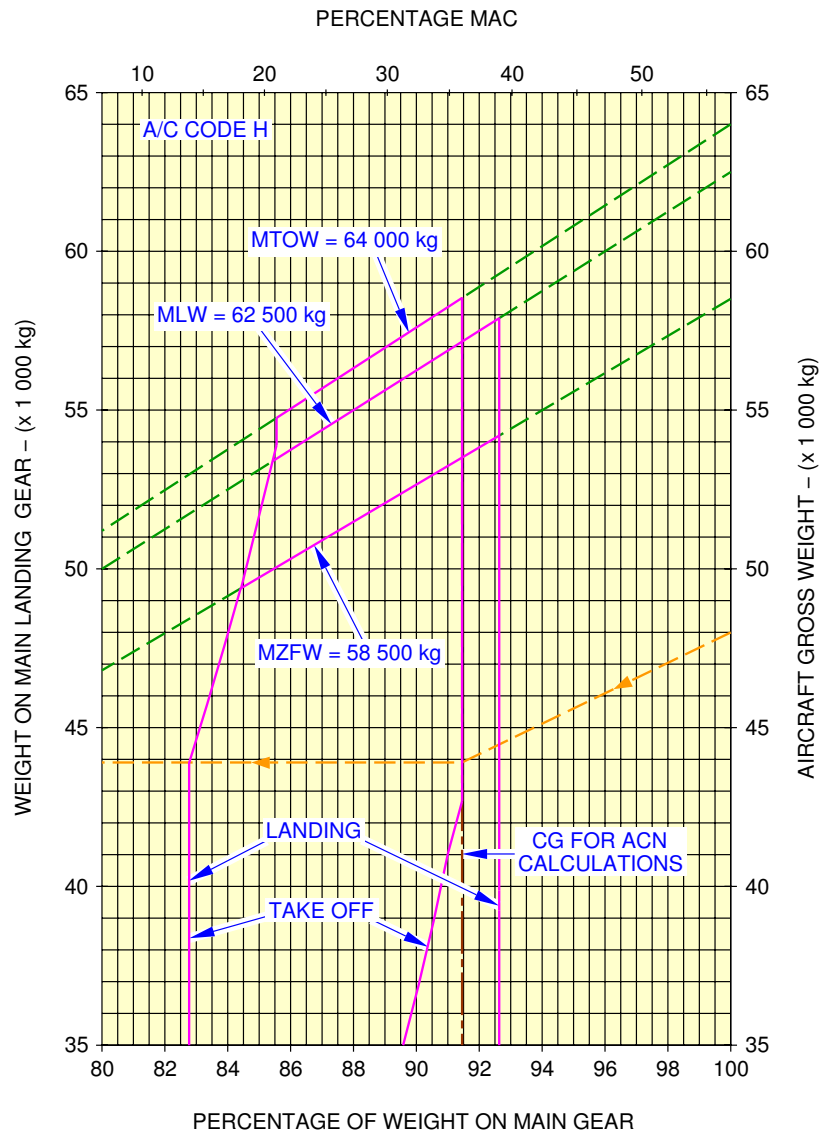
**ON A/C A319-100



N_AC_070401_1_0420101_01_00

Landing Gear Loading on Pavement
FIGURE 5

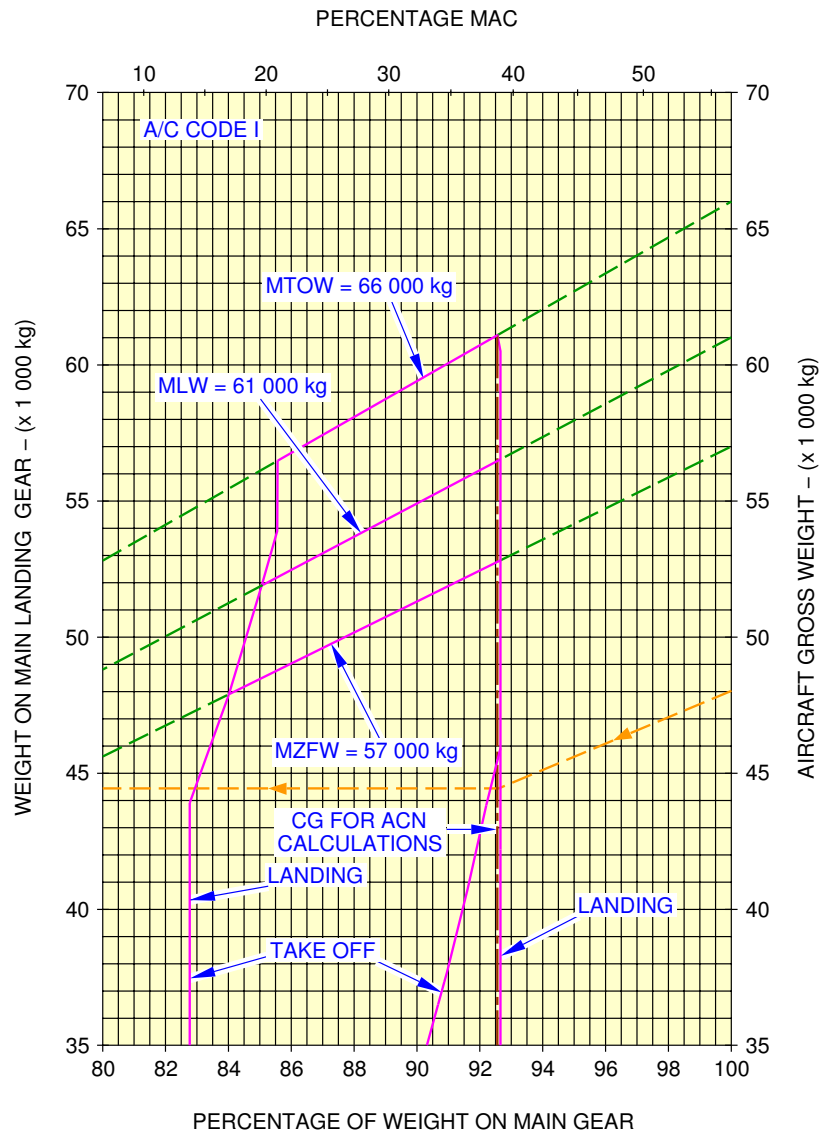
**ON A/C A319-100



N_AC_070401_1_0430101_01_00

Landing Gear Loading on Pavement
FIGURE 6

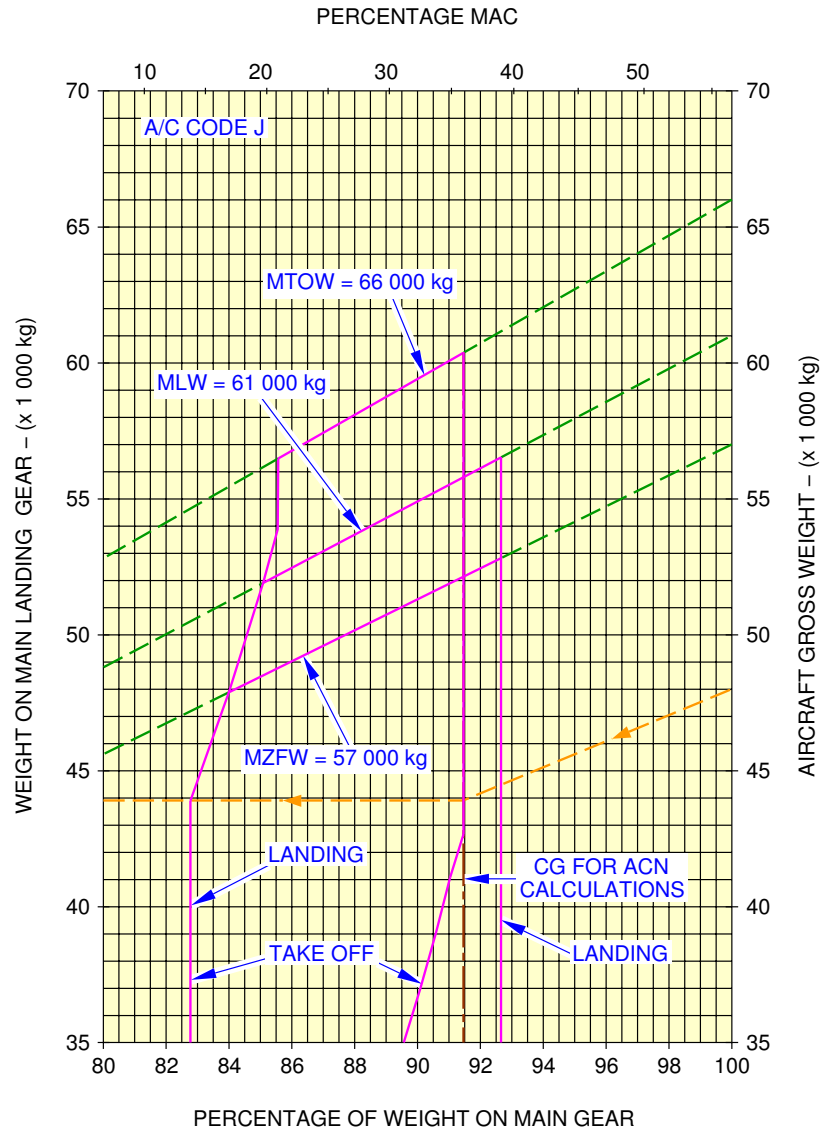
**ON A/C A319-100



N_AC_070401_1_0440101_01_00

Landing Gear Loading on Pavement
Landing Gear Loading on Pavement
FIGURE 7

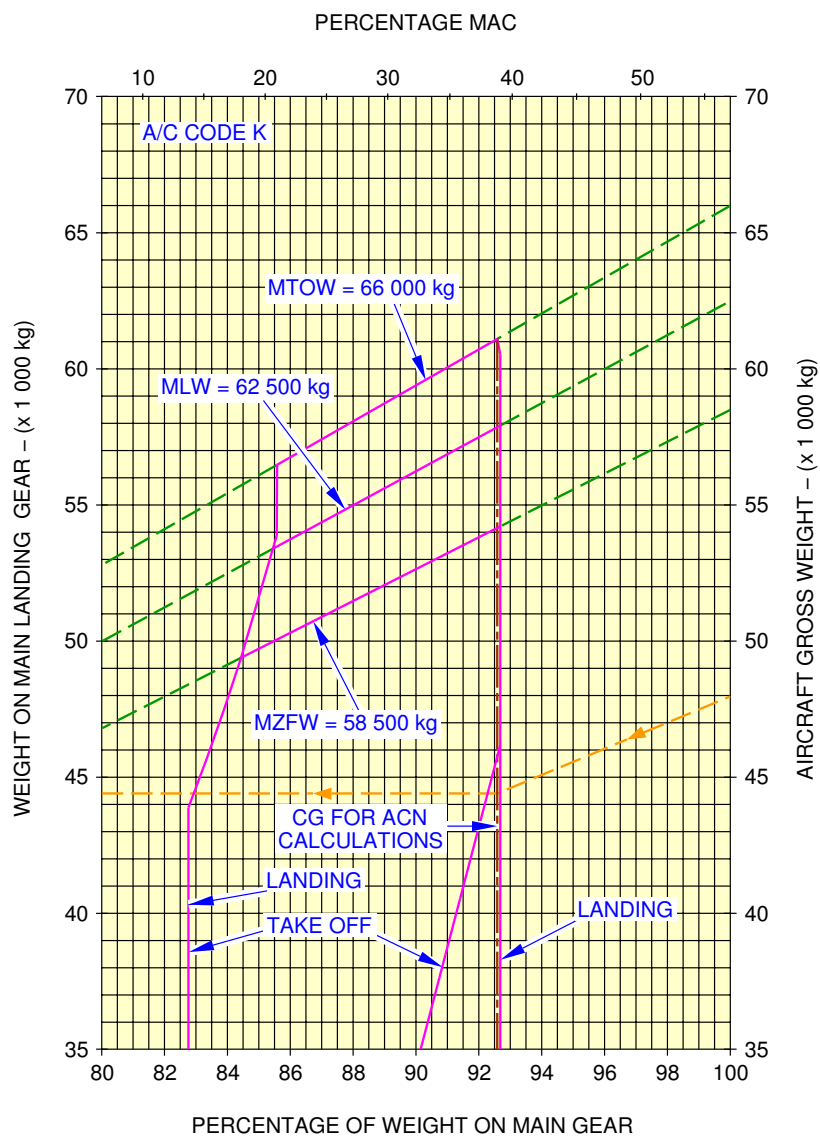
**ON A/C A319-100



N_AC_070401_1_0450101_01_00

Landing Gear Loading on Pavement
FIGURE 8

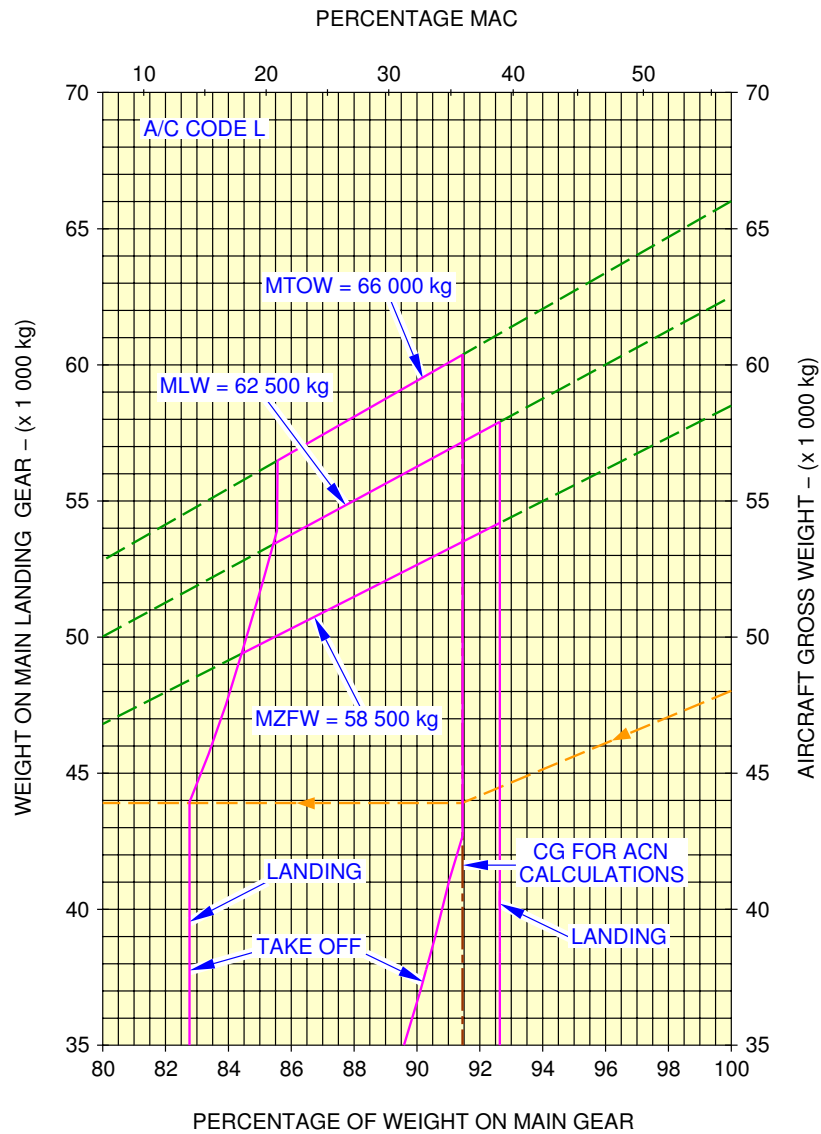
****ON A/C A319-100**



N_AC_070401_1_0460101_01_00

Landing Gear Loading on Pavement
FIGURE 9

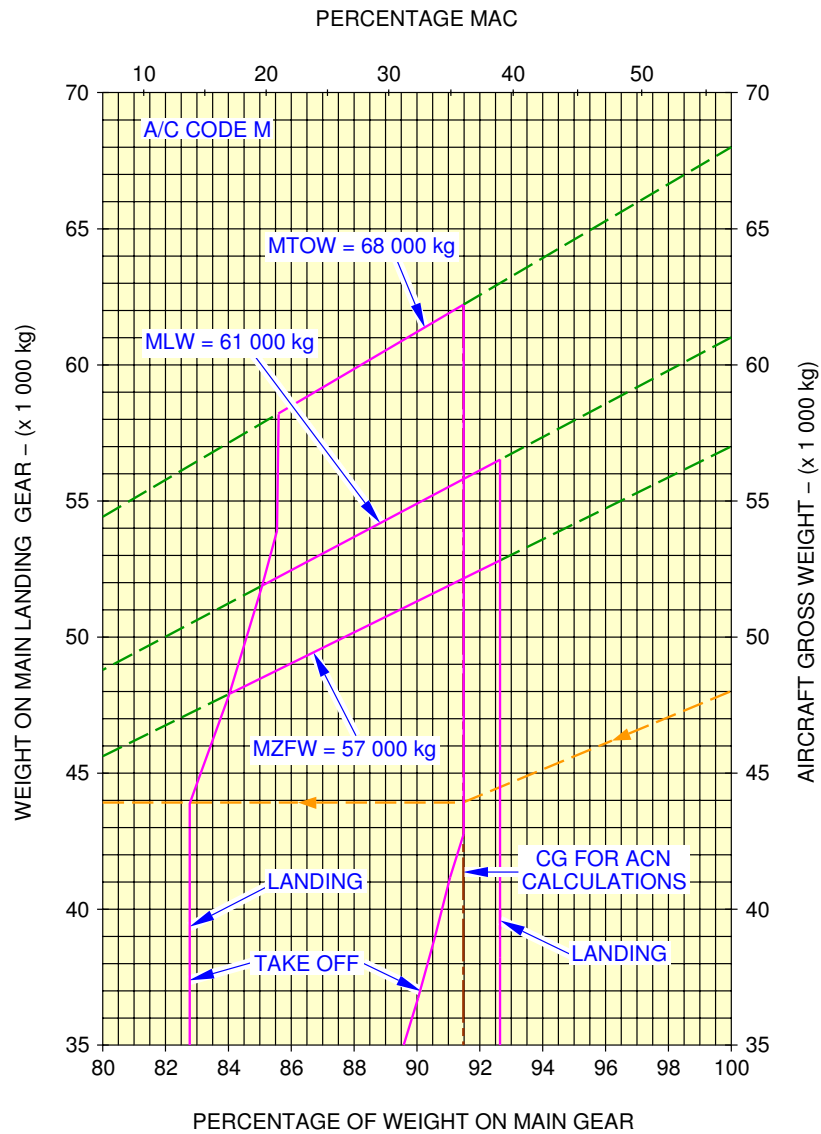
****ON A/C A319-100**



N_AC_070401_1_0470101_01_00

Landing Gear Loading on Pavement
FIGURE 10

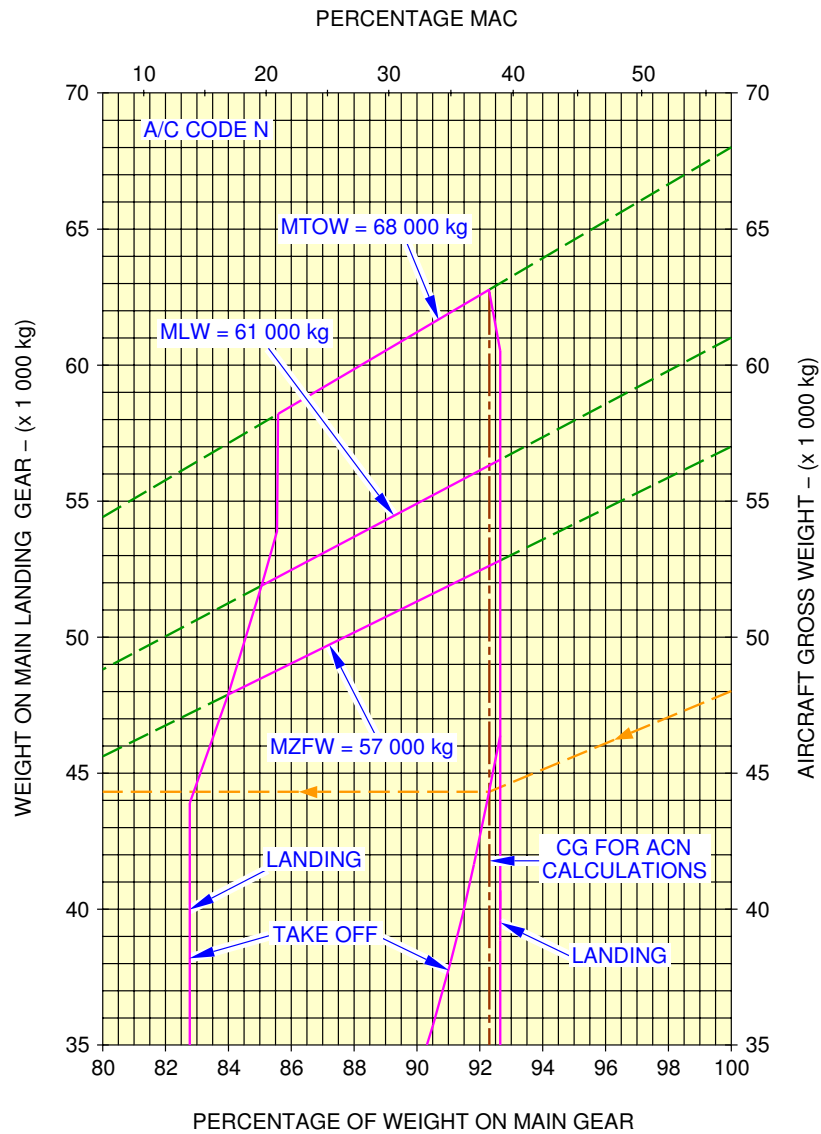
****ON A/C A319-100**



N_AC_070401_1_0480101_01_00

Landing Gear Loading on Pavement
FIGURE 11

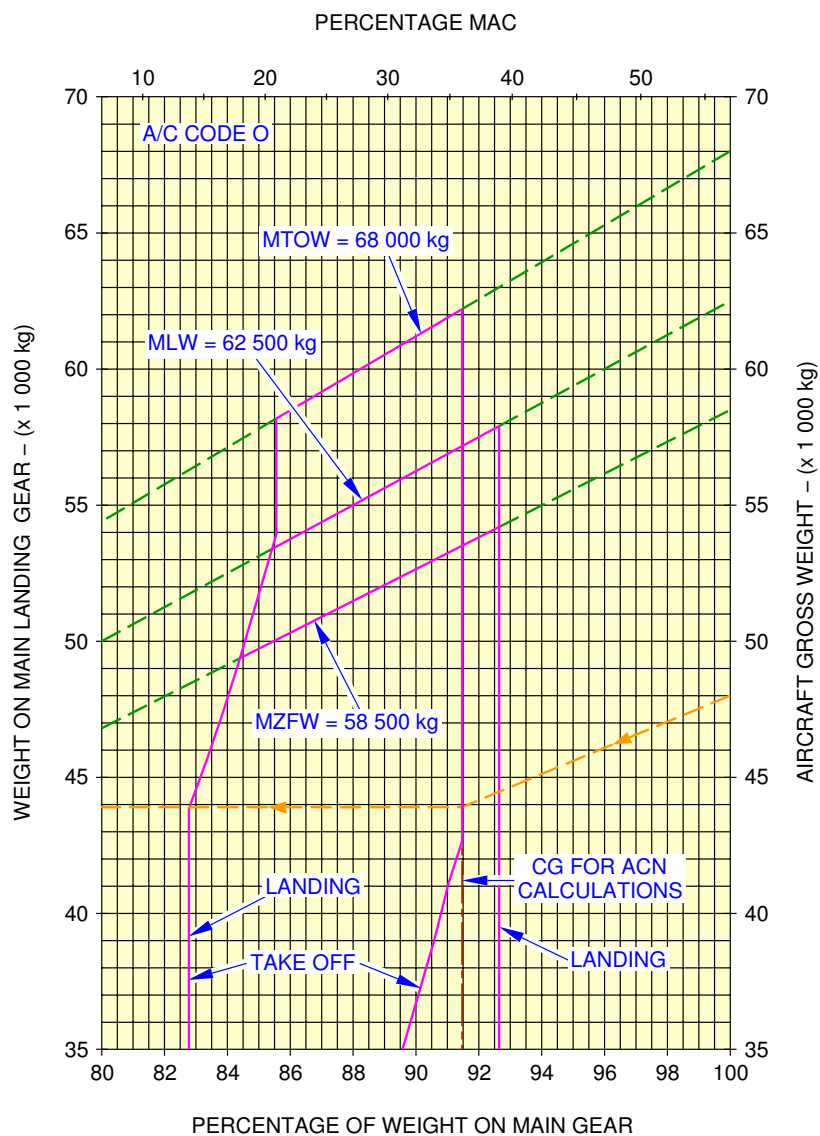
**ON A/C A319-100



N_AC_070401_1_0490101_01_00

Landing Gear Loading on Pavement
FIGURE 12

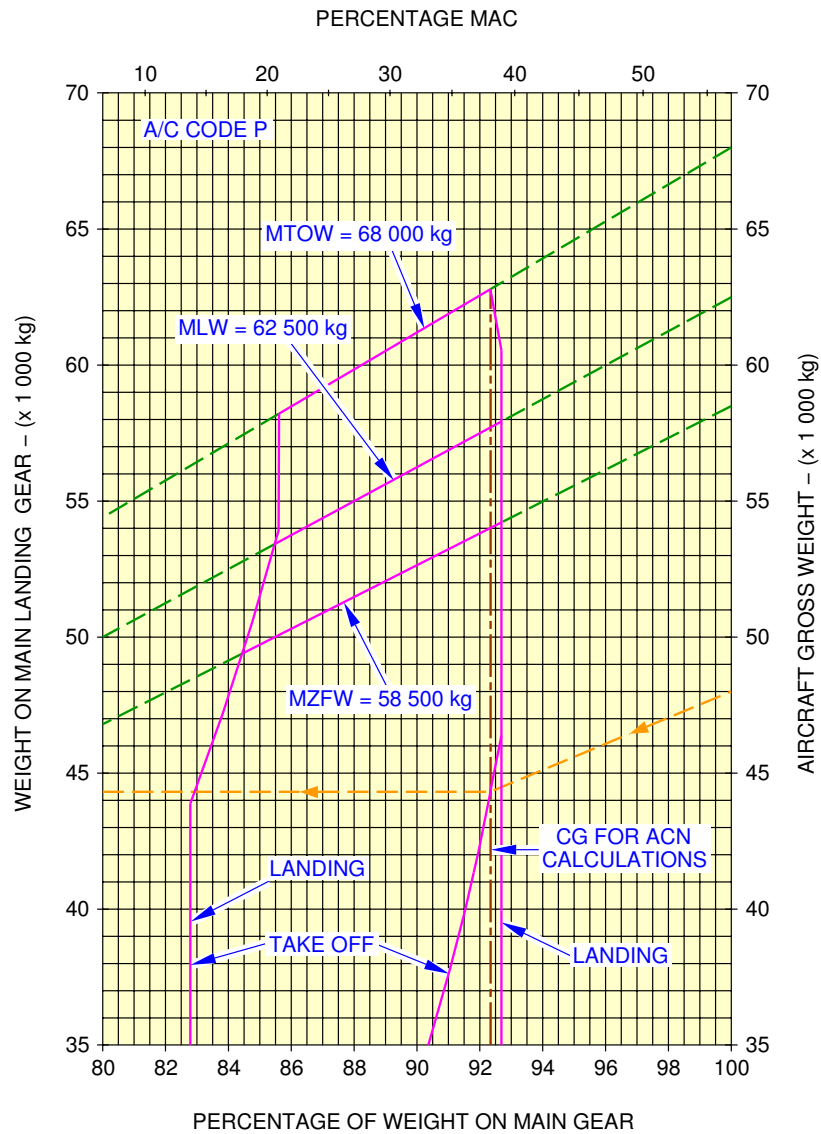
**ON A/C A319-100



N_AC_070401_1_0500101_01_00

Landing Gear Loading on Pavement
FIGURE 13

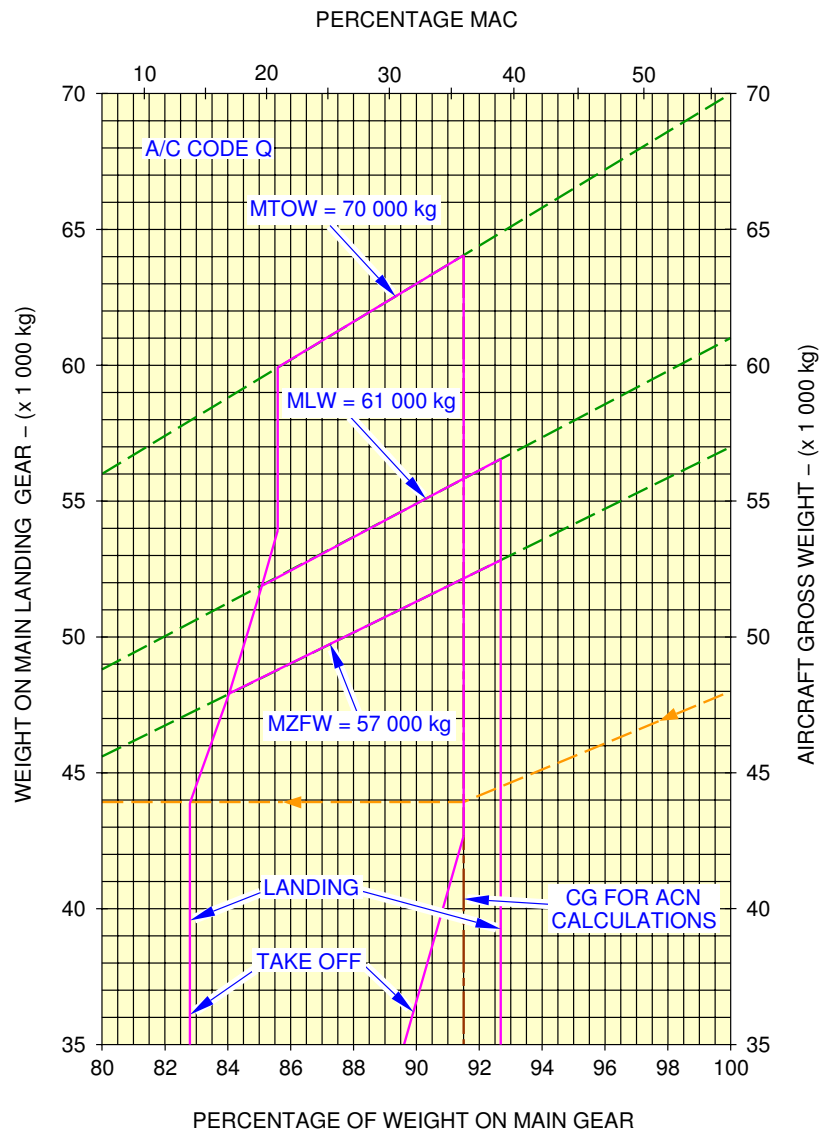
****ON A/C A319-100**



N_AC_070401_1_0510101_01_00

Landing Gear Loading on Pavement
FIGURE 14

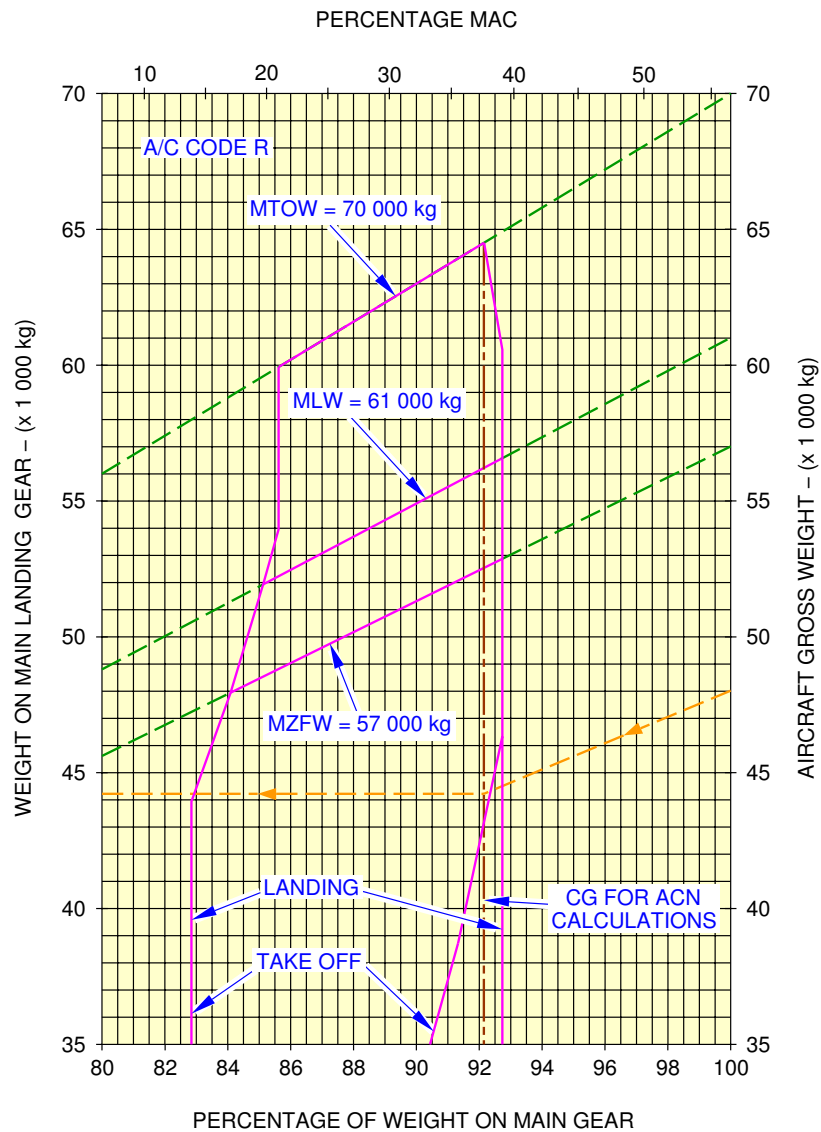
**ON A/C A319-100



N_AC_070401_1_0520101_01_00

Landing Gear Loading on Pavement
FIGURE 15

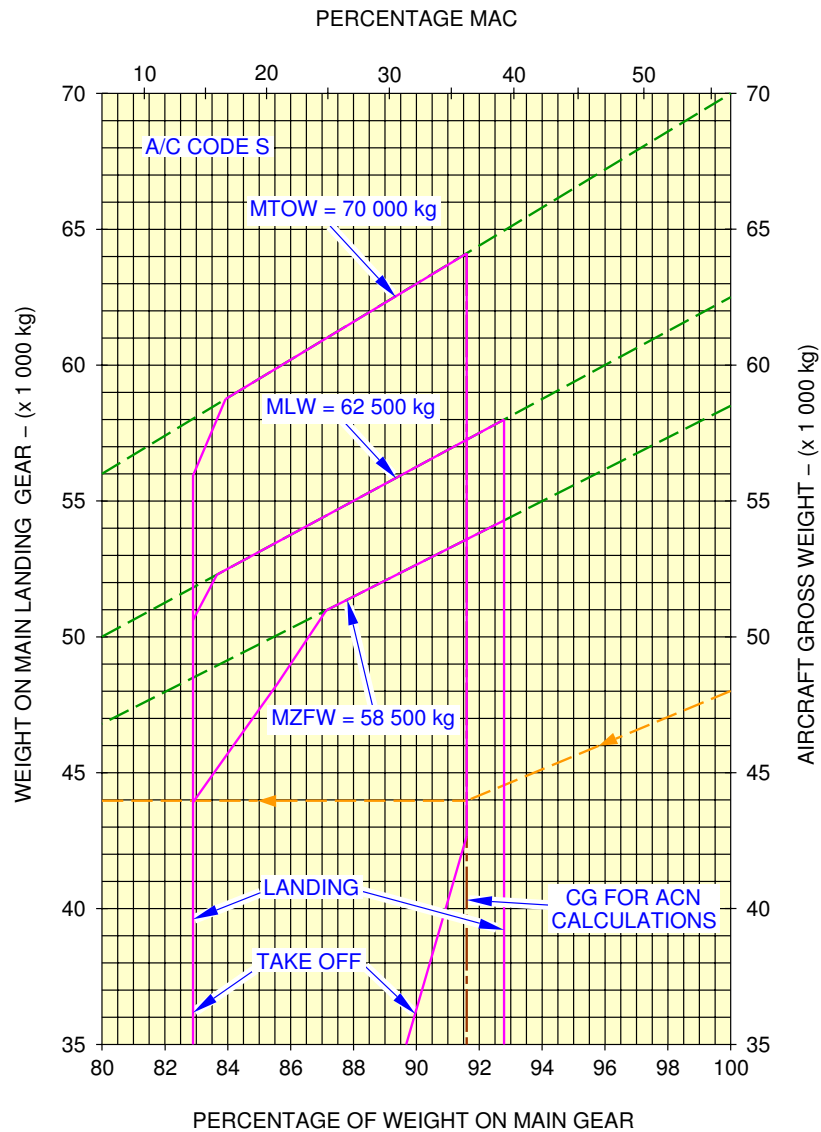
**ON A/C A319-100



N_AC_070401_1_0530101_01_00

Landing Gear Loading on Pavement
Landing Gear Loading on Pavement
FIGURE 16

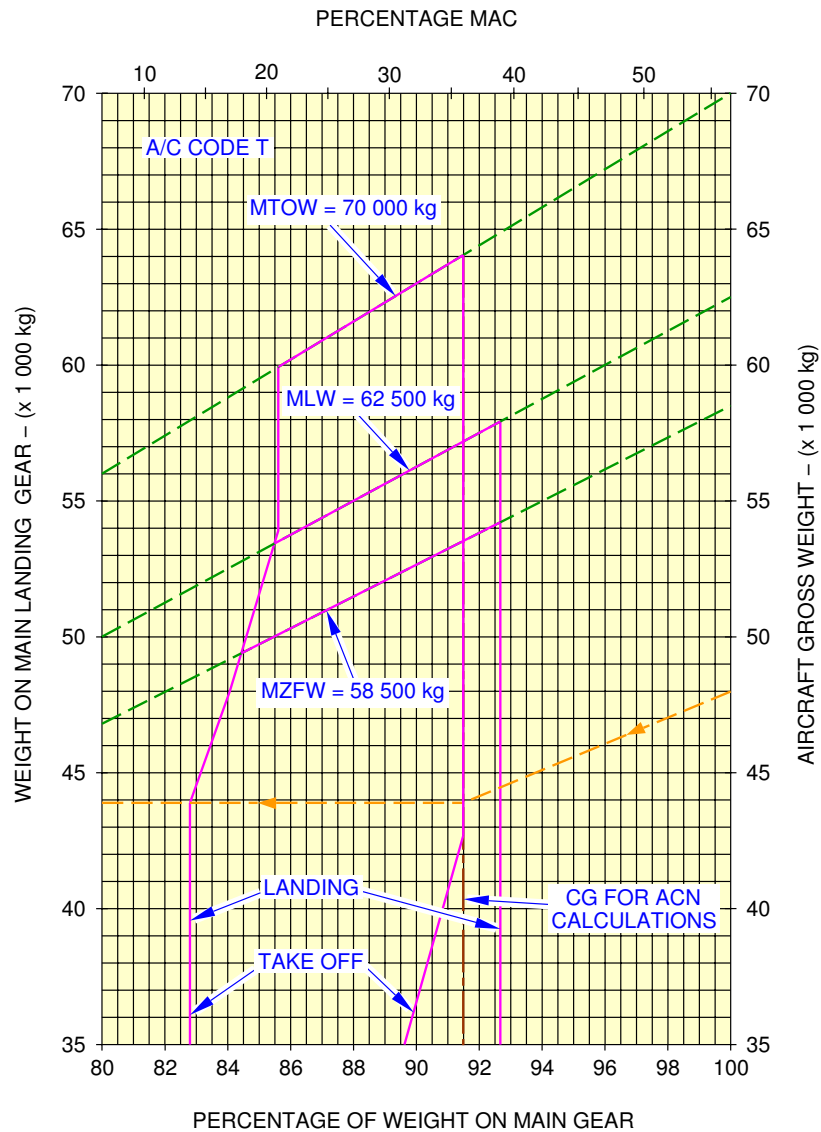
****ON A/C A319-100**



N_AC_070401_1_0540101_01_00

Landing Gear Loading on Pavement
Landing Gear Loading on Pavement
FIGURE 17

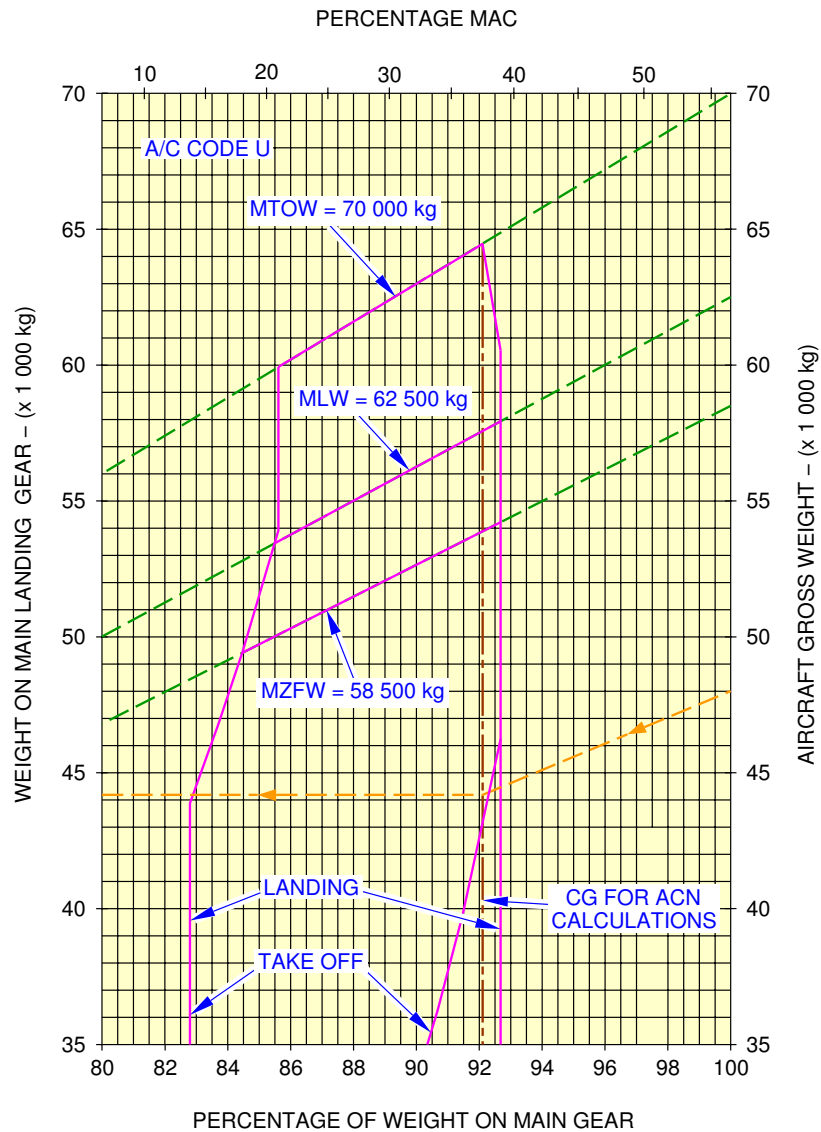
**ON A/C A319-100



N_AC_070401_1_0550101_01_00

Landing Gear Loading on Pavement
FIGURE 18

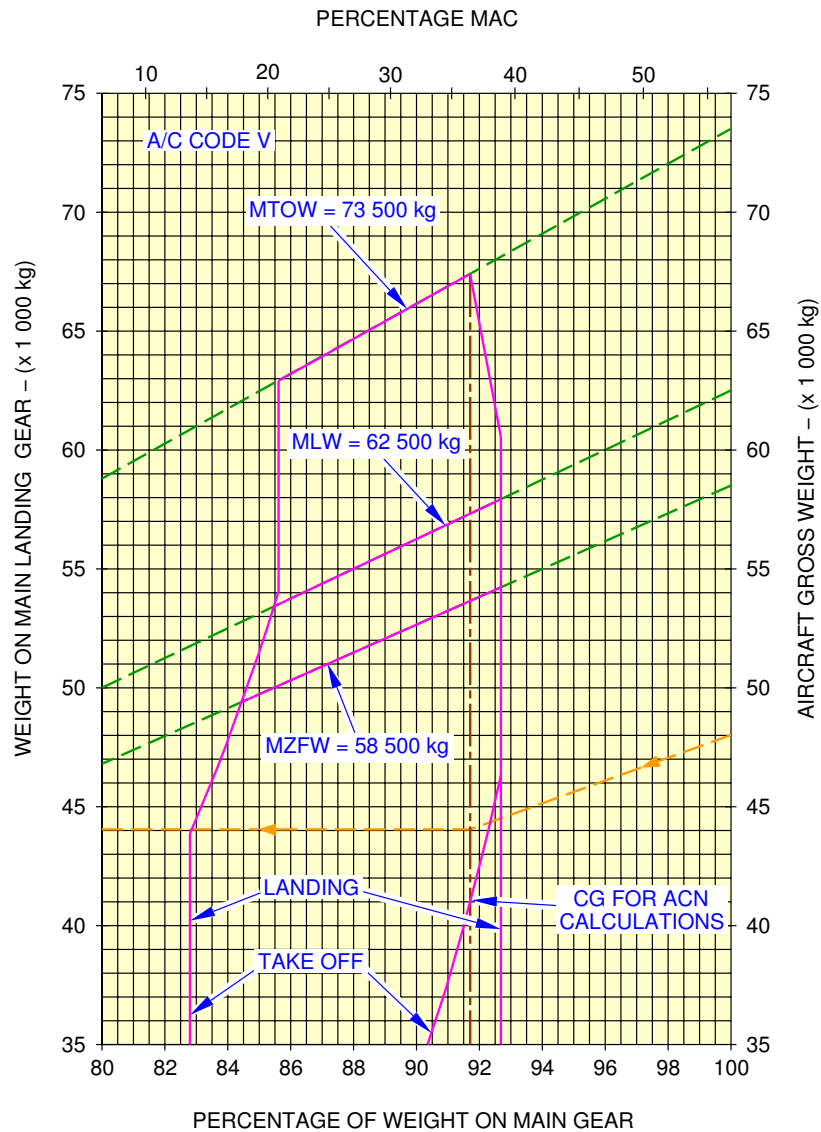
****ON A/C A319-100**



N_AC_070401_1_0560101_01_00

Landing Gear Loading on Pavement
FIGURE 19

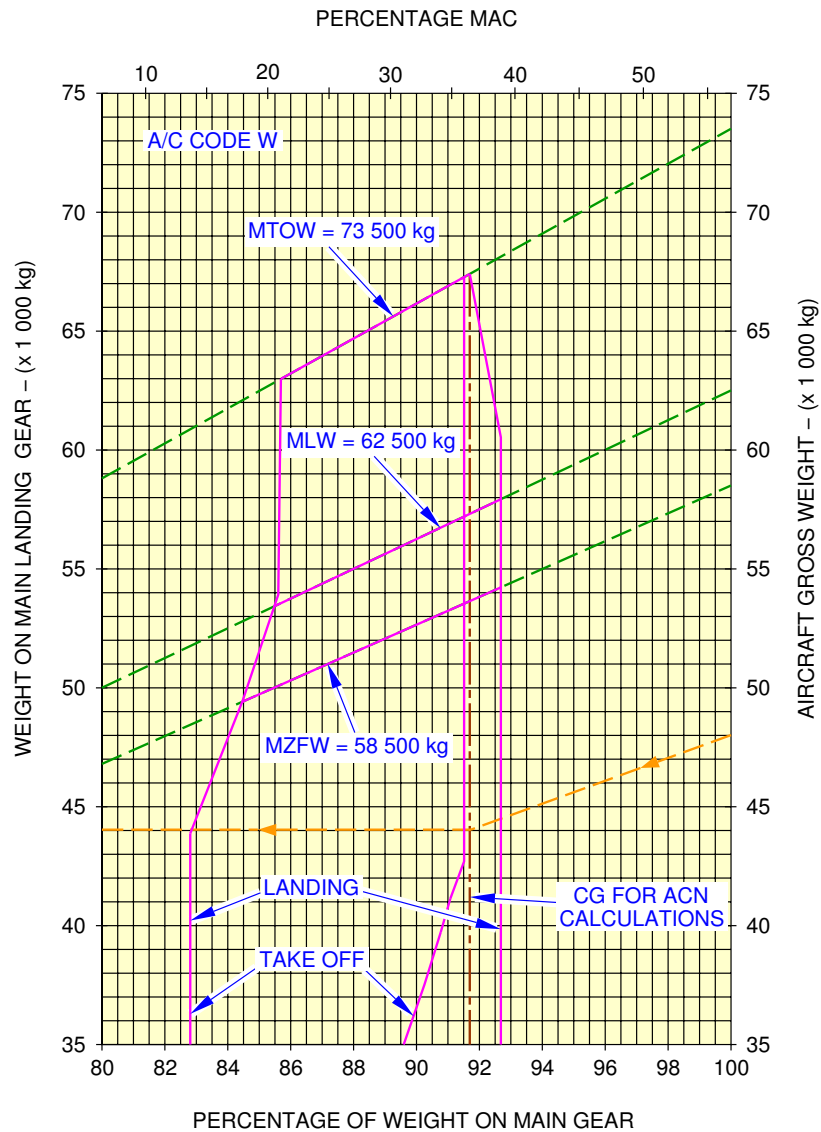
**ON A/C A319-100



N_AC_070401_1_0570101_01_00

Landing Gear Loading on Pavement
FIGURE 20

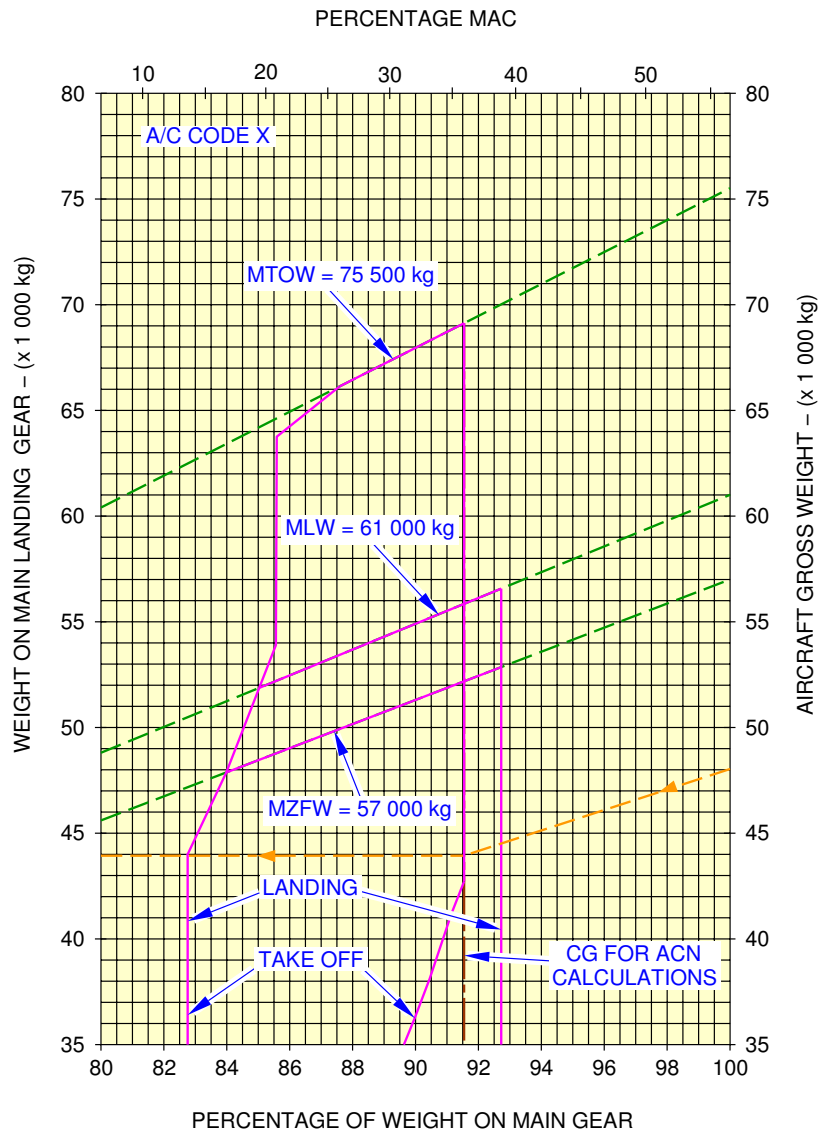
****ON A/C A319-100**



N_AC_070401_1_0580101_01_00

Landing Gear Loading on Pavement
FIGURE 21

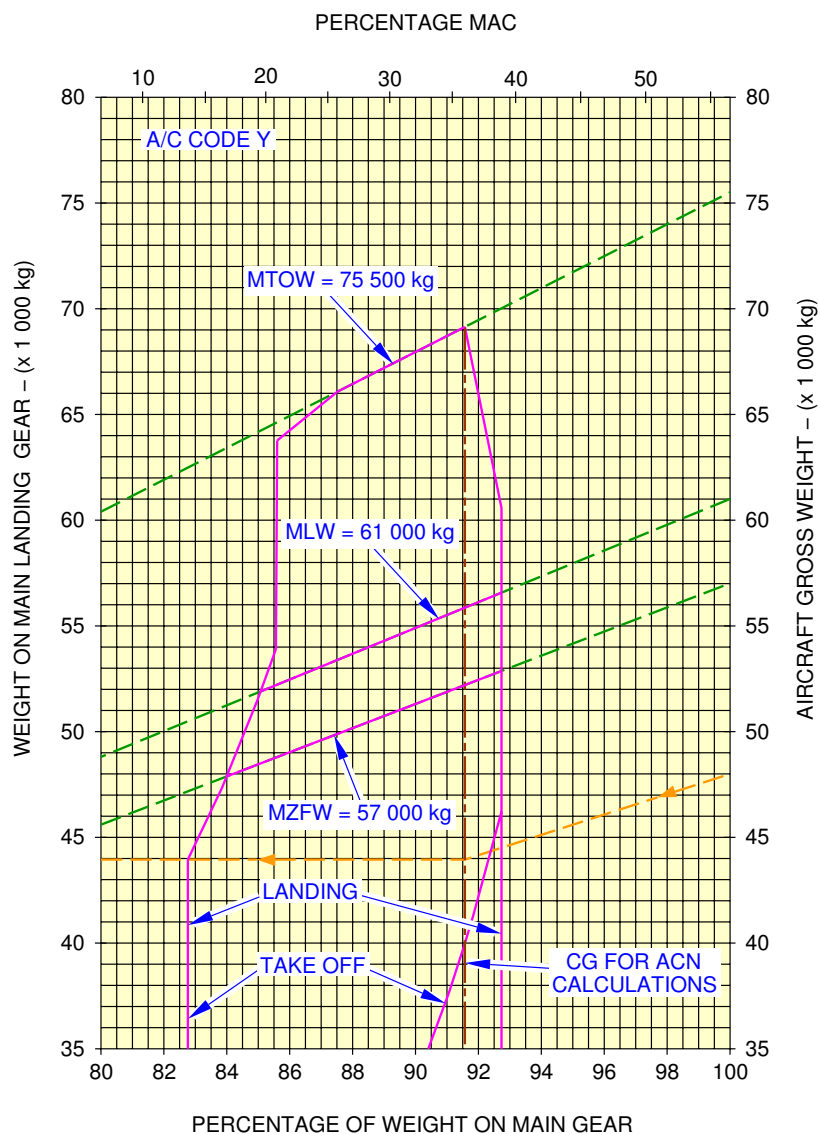
**ON A/C A319-100



N_AC_070401_1_0590101_01_00

Landing Gear Loading on Pavement
FIGURE 22

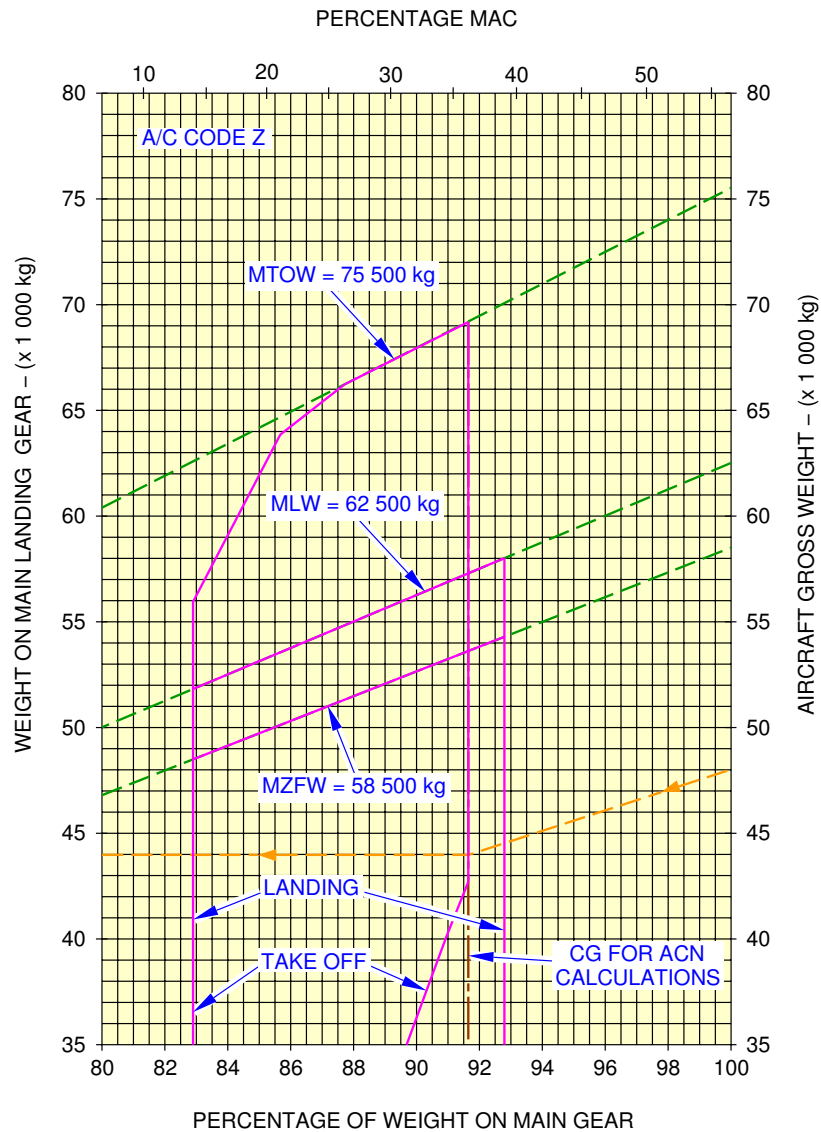
**ON A/C A319-100



N_AC_070401_1_0600101_01_00

Landing Gear Loading on Pavement
FIGURE 23

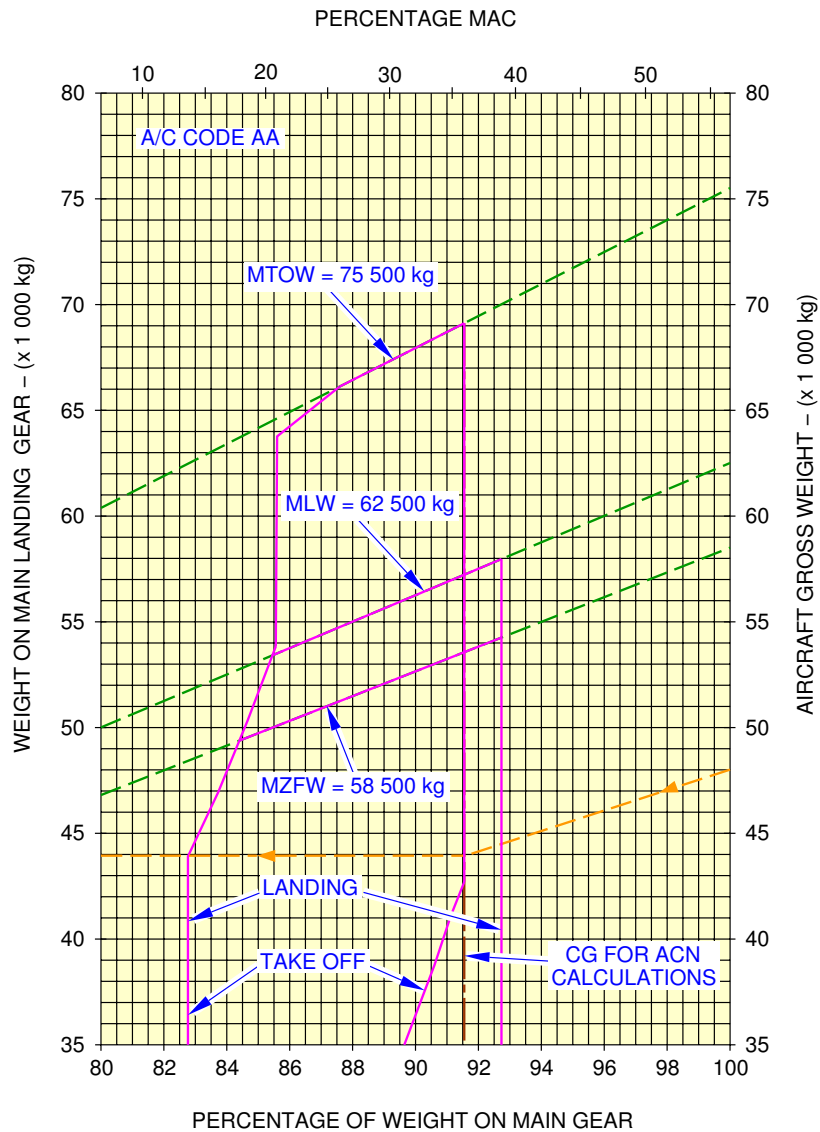
**ON A/C A319-100



N_AC_070401_1_0610101_01_00

Landing Gear Loading on Pavement
FIGURE 24

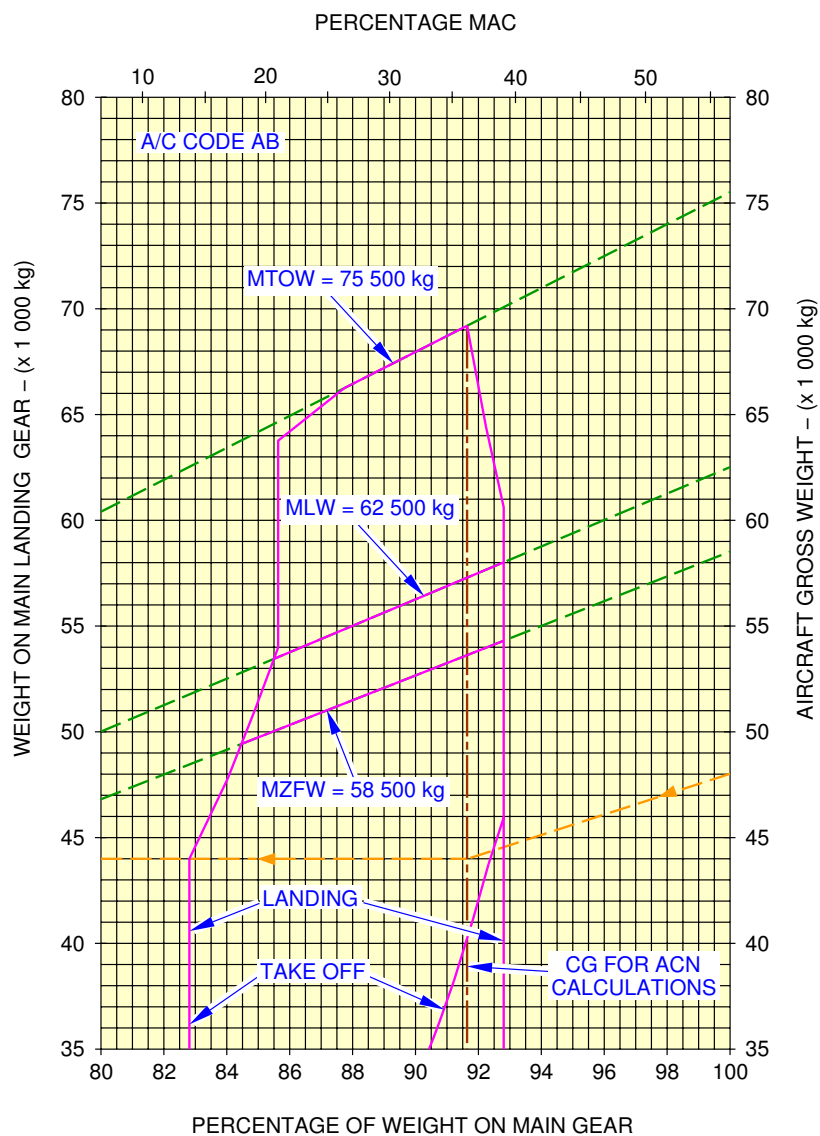
**ON A/C A319-100



N_AC_070401_1_0620101_01_00

Landing Gear Loading on Pavement
FIGURE 25

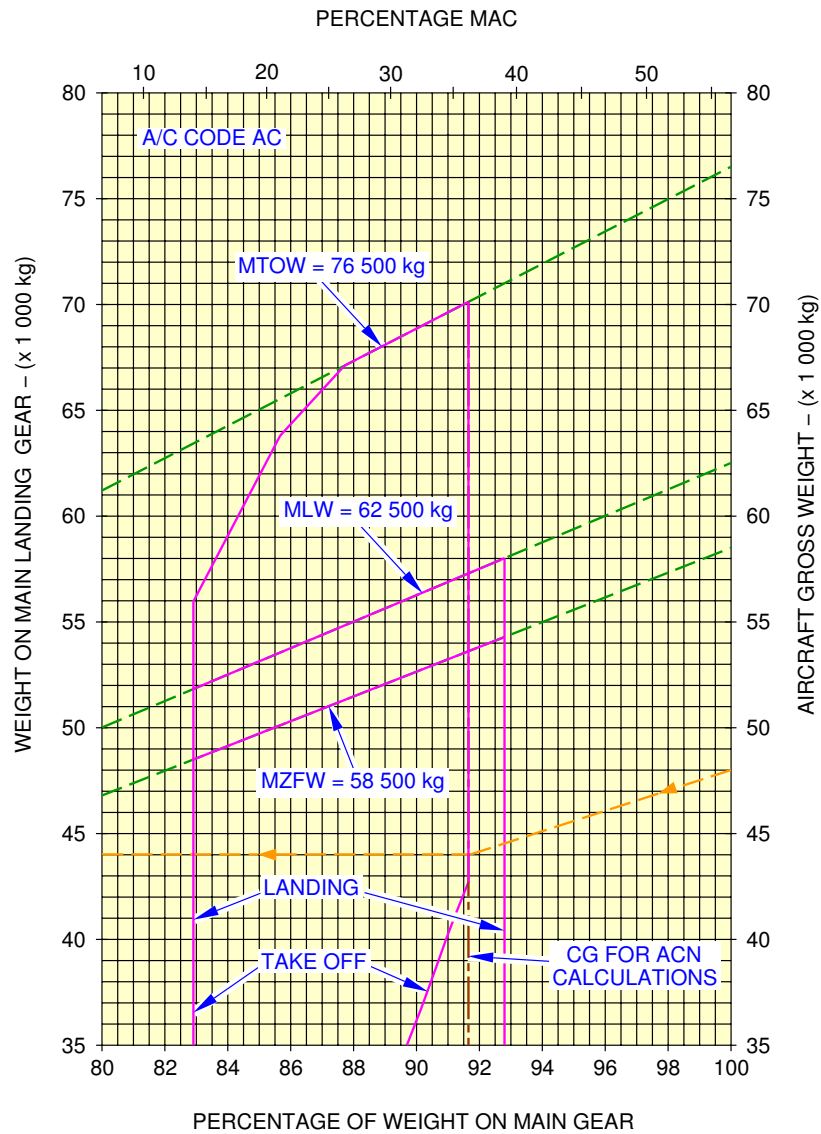
**ON A/C A319-100



N_AC_070401_1_0630101_01_00

Landing Gear Loading on Pavement
FIGURE 26

****ON A/C A319-100**



N_AC_070401_1_0640101_01_00

Landing Gear Loading on Pavement
FIGURE 27

7-5-0 Flexible Pavement Requirements - U.S. Army Corps of Engineers Design Method****ON A/C A319-100**Flexible Pavement Requirements - U.S. Army Corps of Engineers Design Method**1. General**

In order to determine a particular Flexible Pavement Thickness, the Subgrade Strength (CBR), the Annual Departure Level and the weight on one Main Landing Gear must be known.

In the example shown in Section 7-5-1 Flexible Pavement Requirements, A/C Code C for:

- a CBR value of 10
- an Annual Departure Level of 25 000
- the Load on one MLG of 20 000 kg (44 100 lb).

For these conditions, the Flexible Pavement Thickness is 41.4 cm (16.3 in).

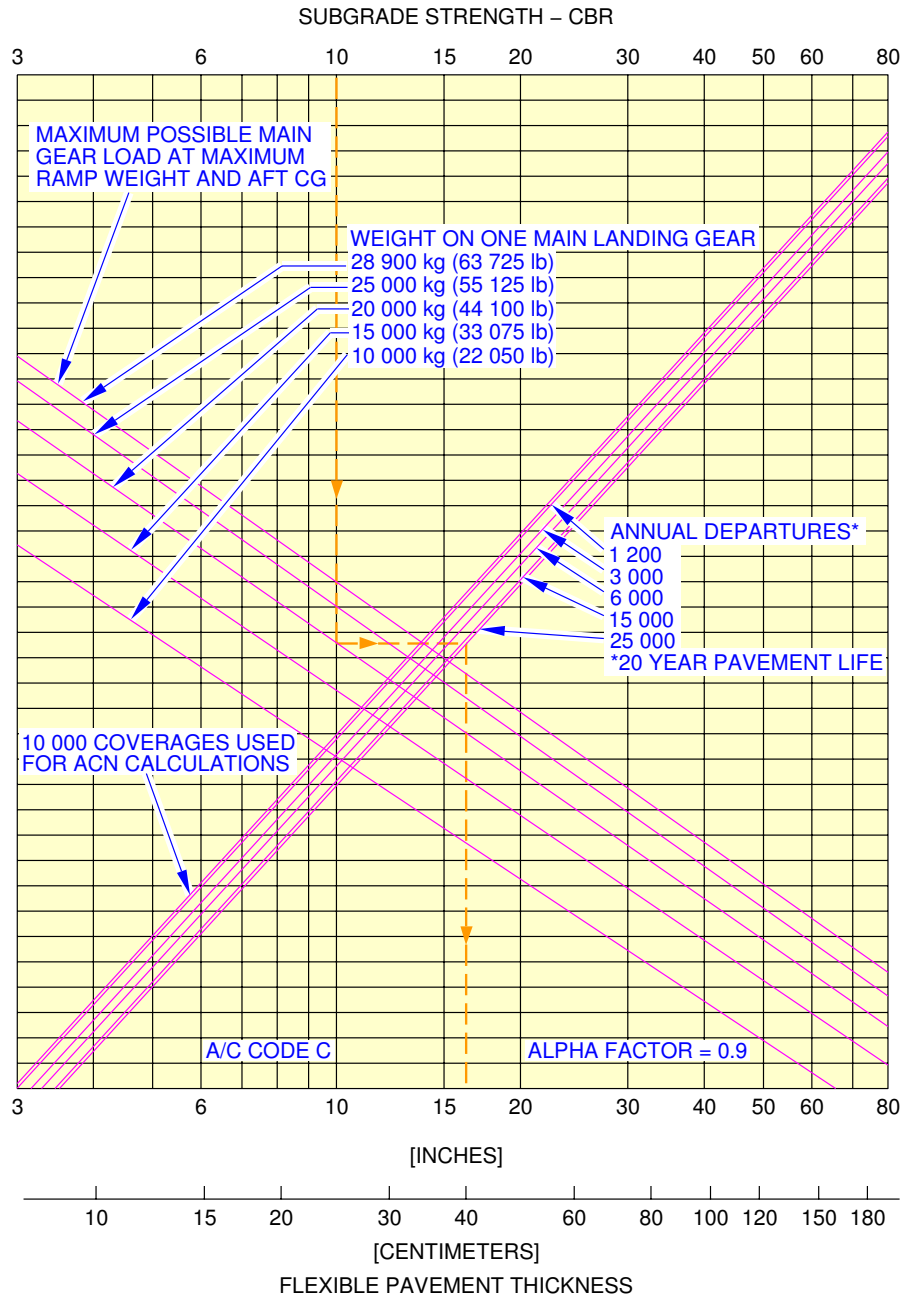
The line showing 10 000 Coverages is used to calculate the Aircraft Classification Number (ACN).

7-5-1 Flexible Pavement Requirements - U.S. Army Corps of Engineers Design Method****ON A/C A319-100**Flexible Pavement Requirements - U.S. Army Corps of Engineers Design Method

1. This section gives Flexible Pavement Requirements.

I NOTE : For A/C Code definition, refer to chapter 7-1-0.

****ON A/C A319-100**

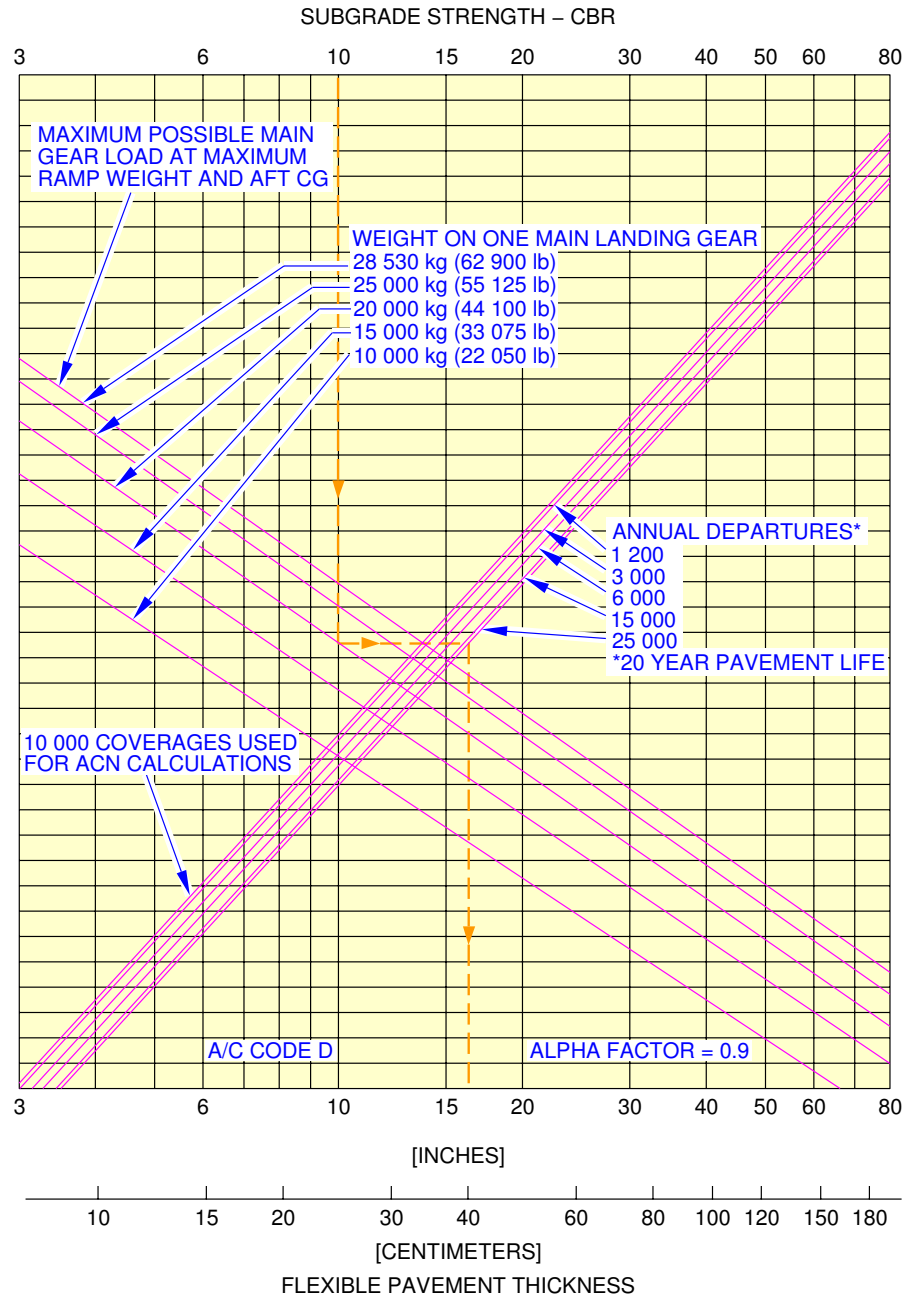


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)

N_AC_070501_1_0380101_01_00

Flexible Pavement Requirements
FIGURE 1

**ON A/C A319-100

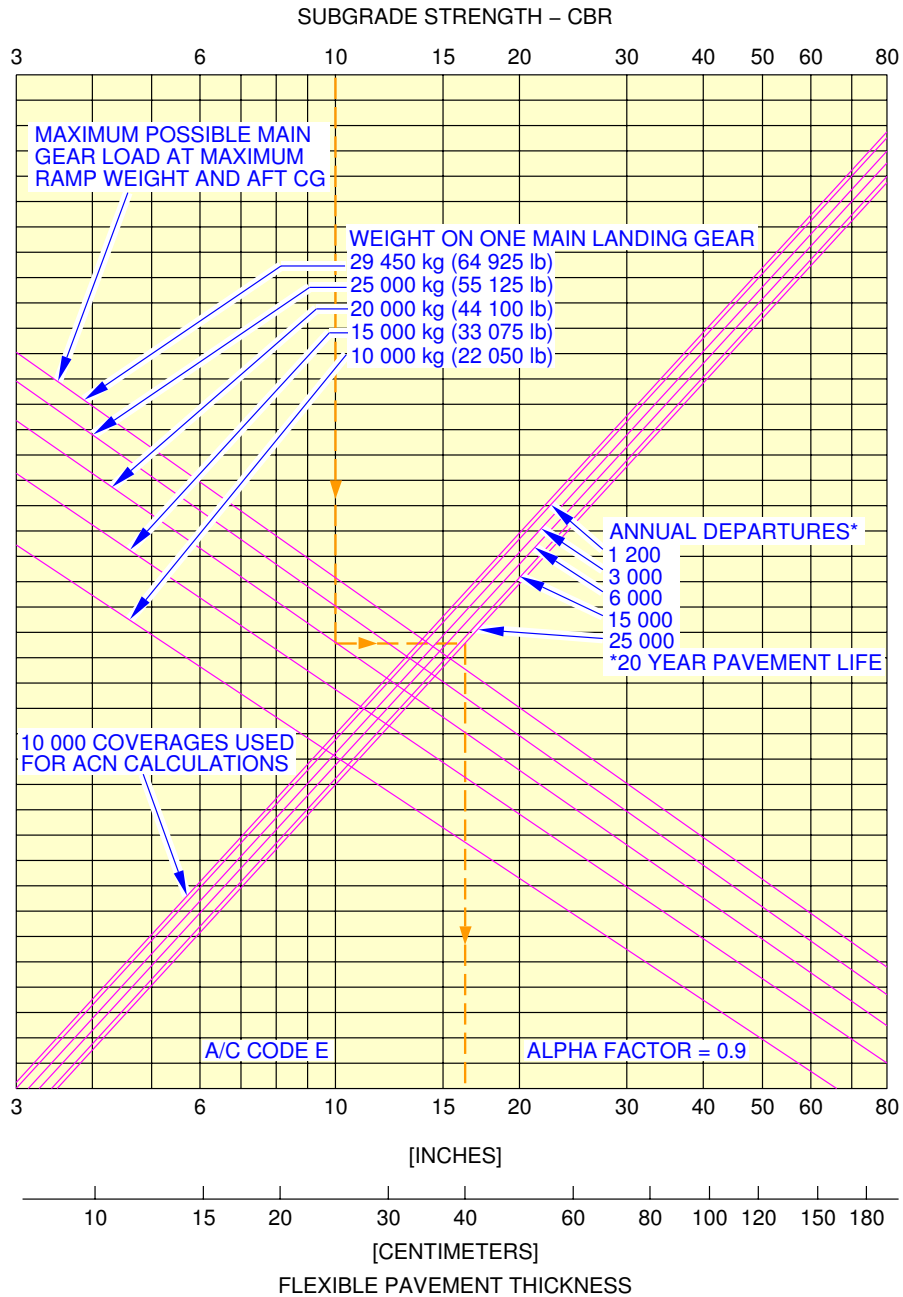


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)

N_AC_070501_1_0390101_01_00

Flexible Pavement Requirements
FIGURE 2

**ON A/C A319-100

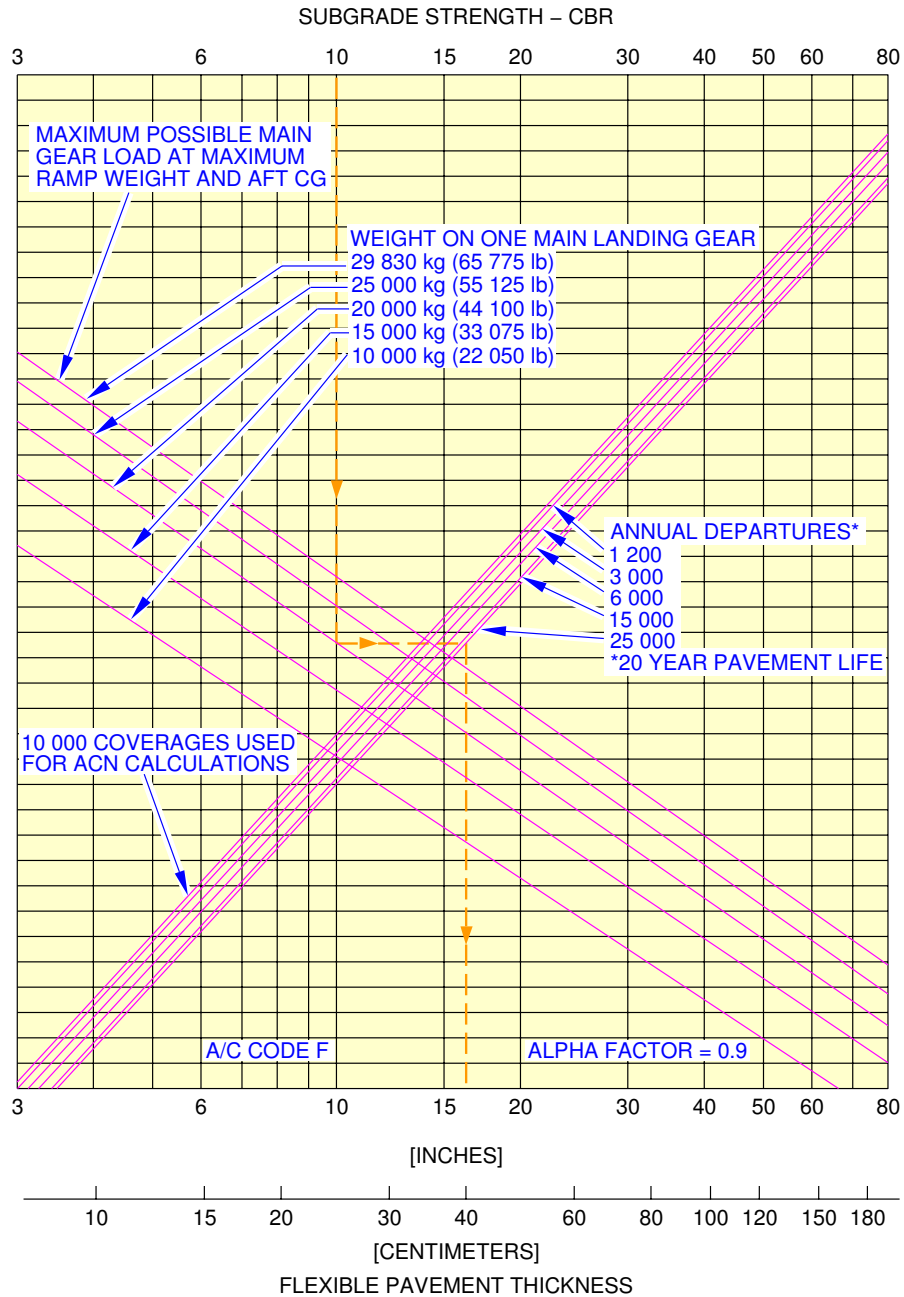


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)

N_AC_070501_1_0400101_01_00

Flexible Pavement Requirements
FIGURE 3

**ON A/C A319-100

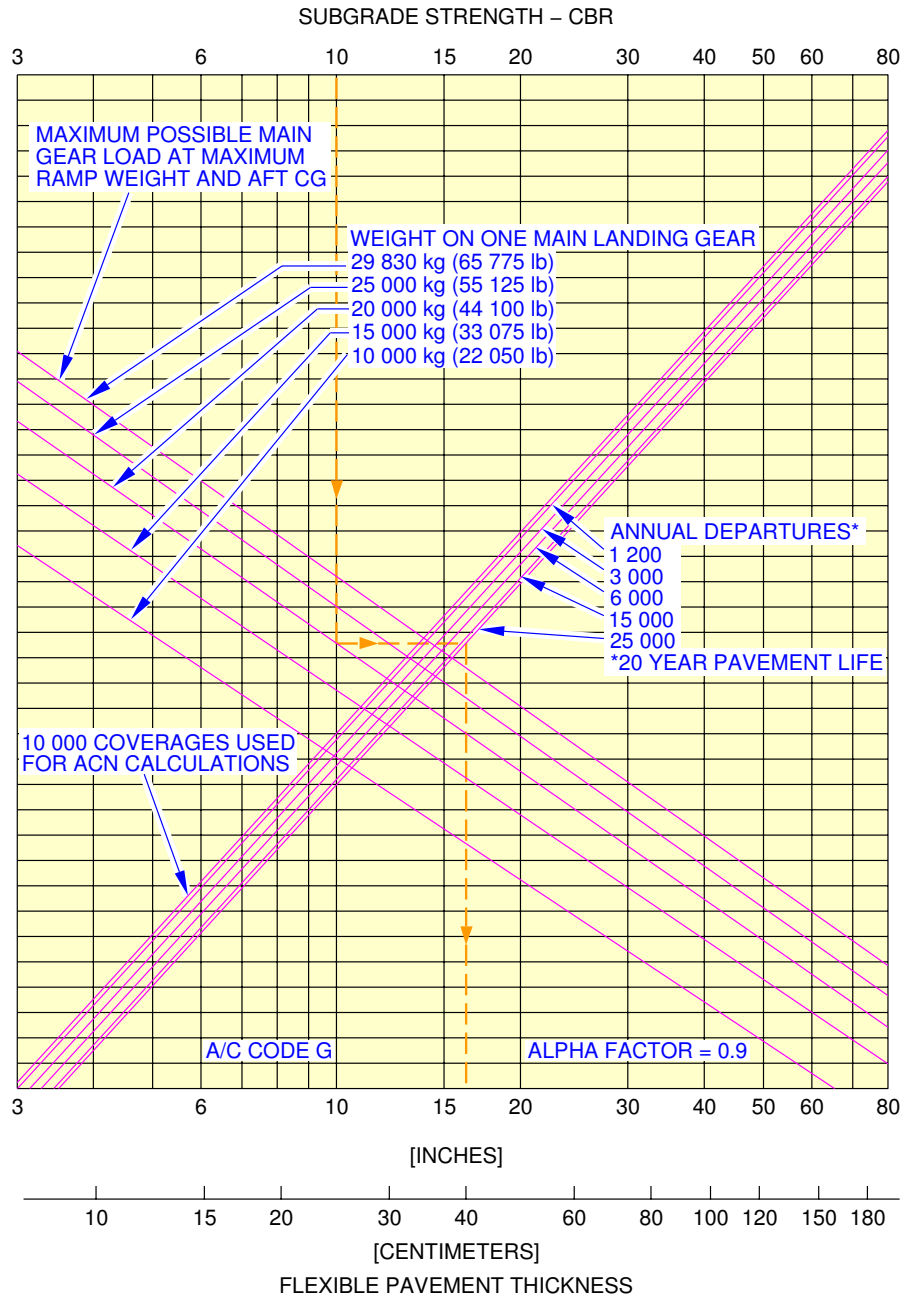


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)

N_AC_070501_1_0410101_01_00

Flexible Pavement Requirements
FIGURE 4

**ON A/C A319-100

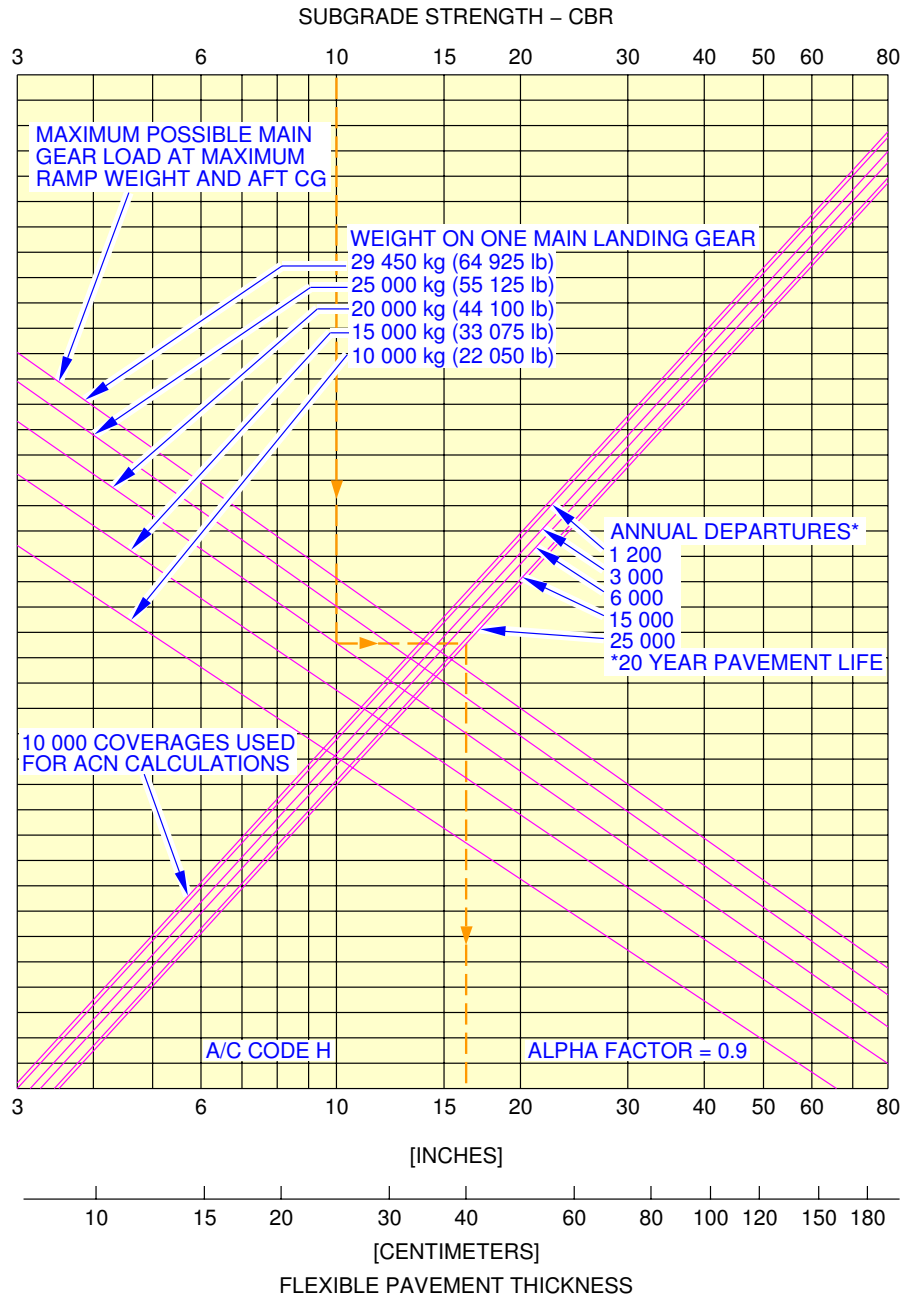


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)

N_AC_070501_1_0420101_01_00

Flexible Pavement Requirements
FIGURE 5

**ON A/C A319-100

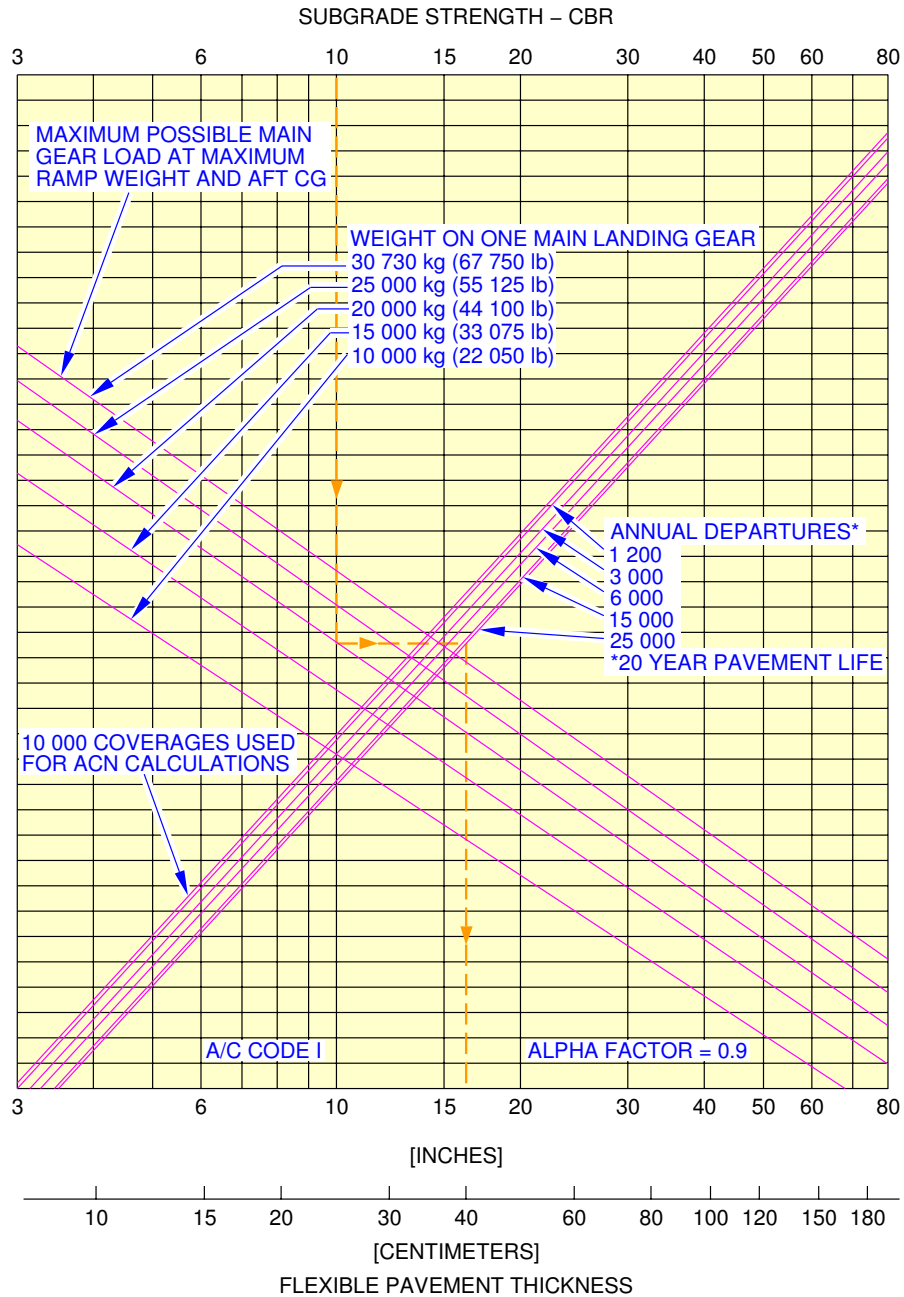


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)

N_AC_070501_1_0430101_01_00

Flexible Pavement Requirements
FIGURE 6

**ON A/C A319-100

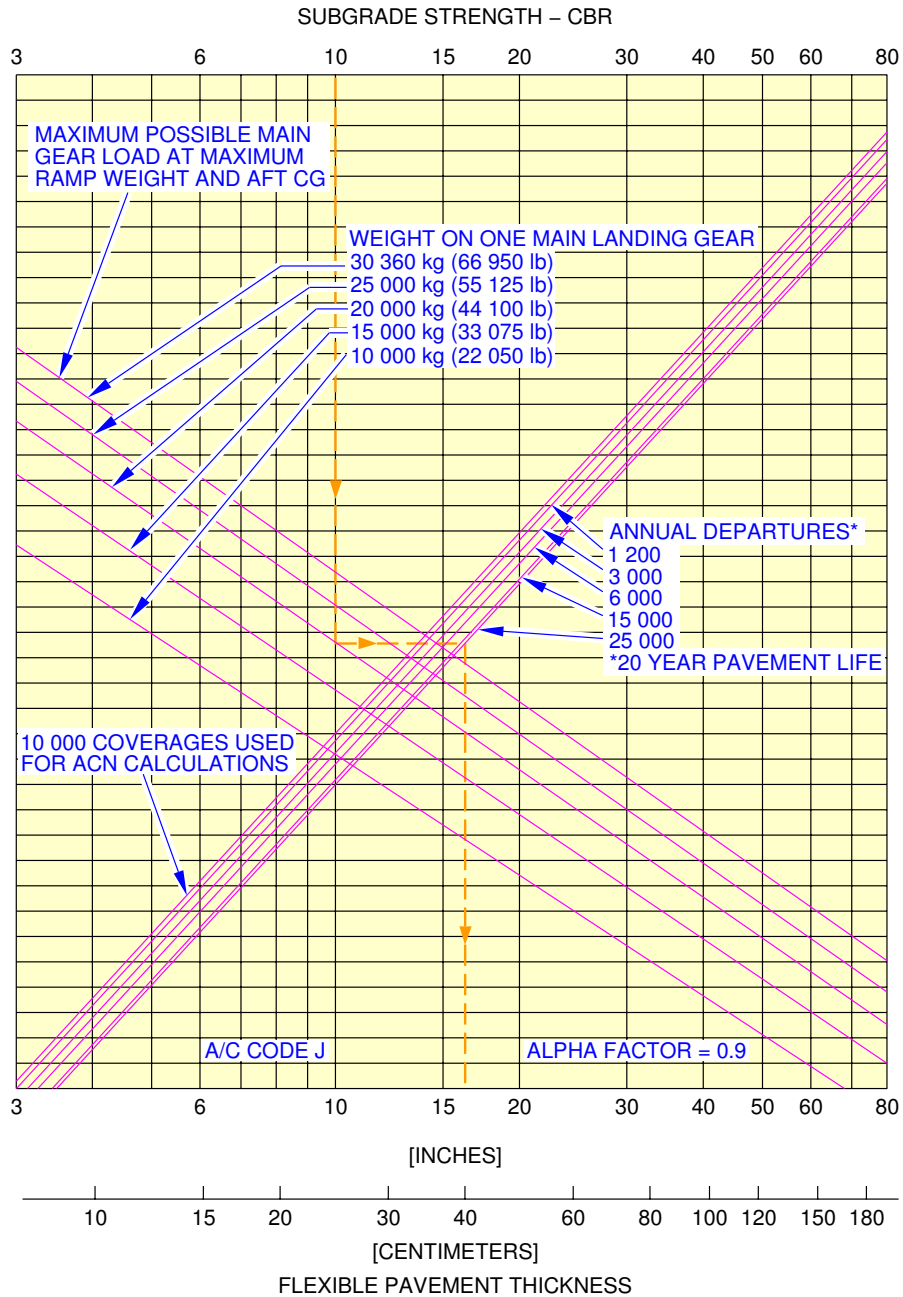


46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)

N_AC_070501_1_0440101_01_00

Flexible Pavement Requirements
FIGURE 7

**ON A/C A319-100

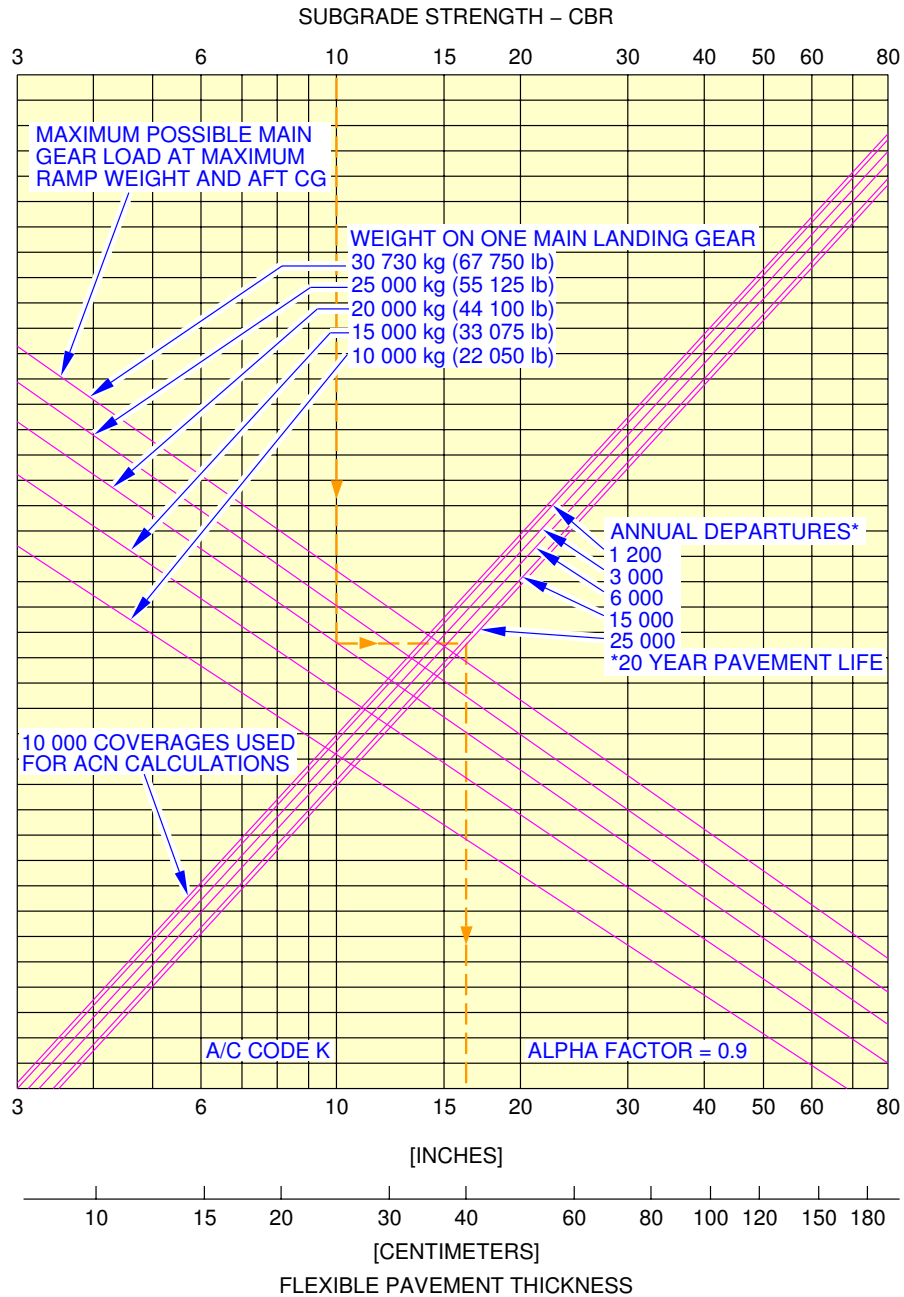


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)

N_AC_070501_1_0450101_01_00

Flexible Pavement Requirements
FIGURE 8

**ON A/C A319-100

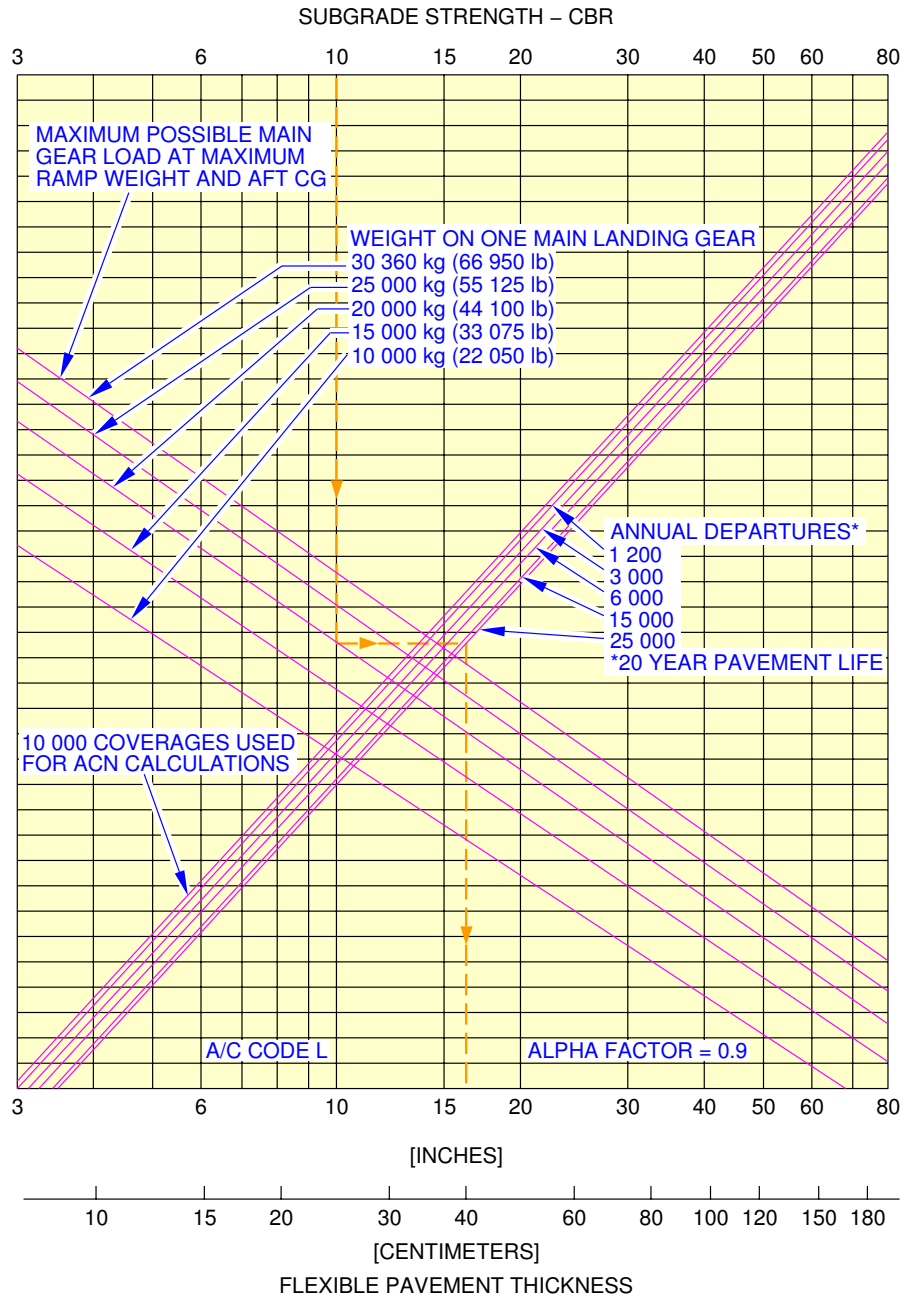


46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)

N_AC_070501_1_0460101_01_00

Flexible Pavement Requirements
FIGURE 9

**ON A/C A319-100

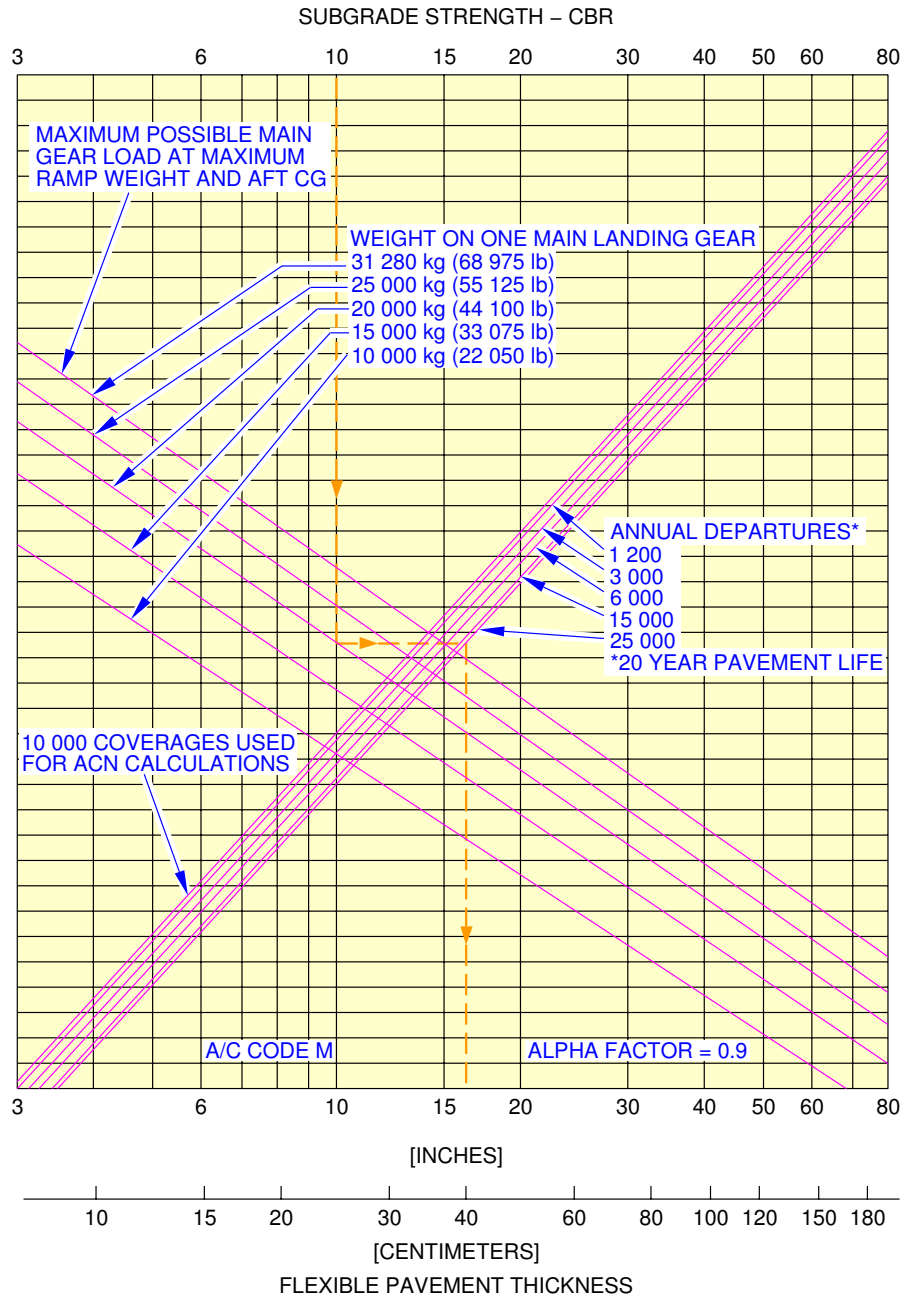


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)

N_AC_070501_1_0470101_01_00

Flexible Pavement Requirements
FIGURE 10

**ON A/C A319-100

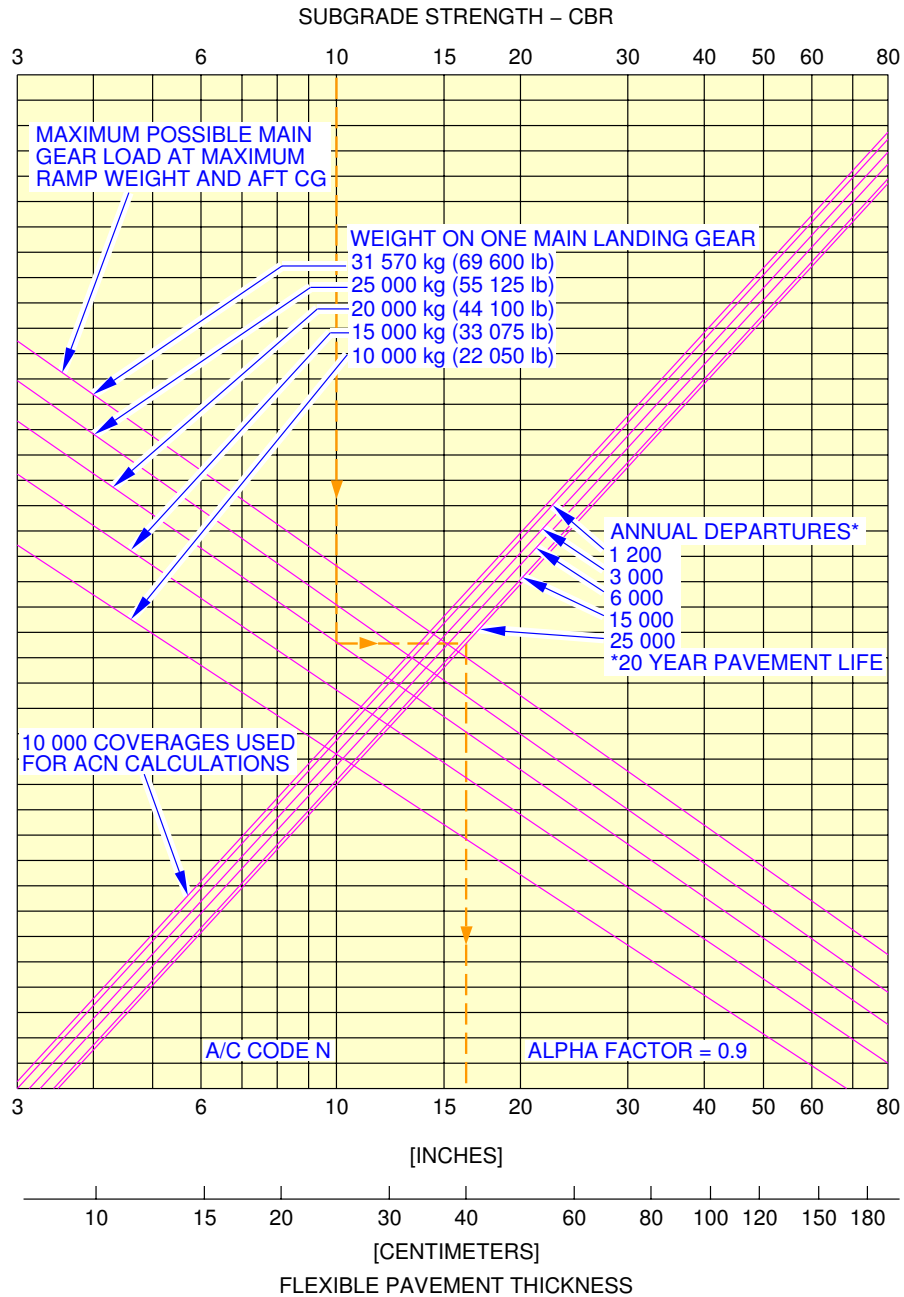


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)

N_AC_070501_1_0480101_01_00

Flexible Pavement Requirements
FIGURE 11

**ON A/C A319-100

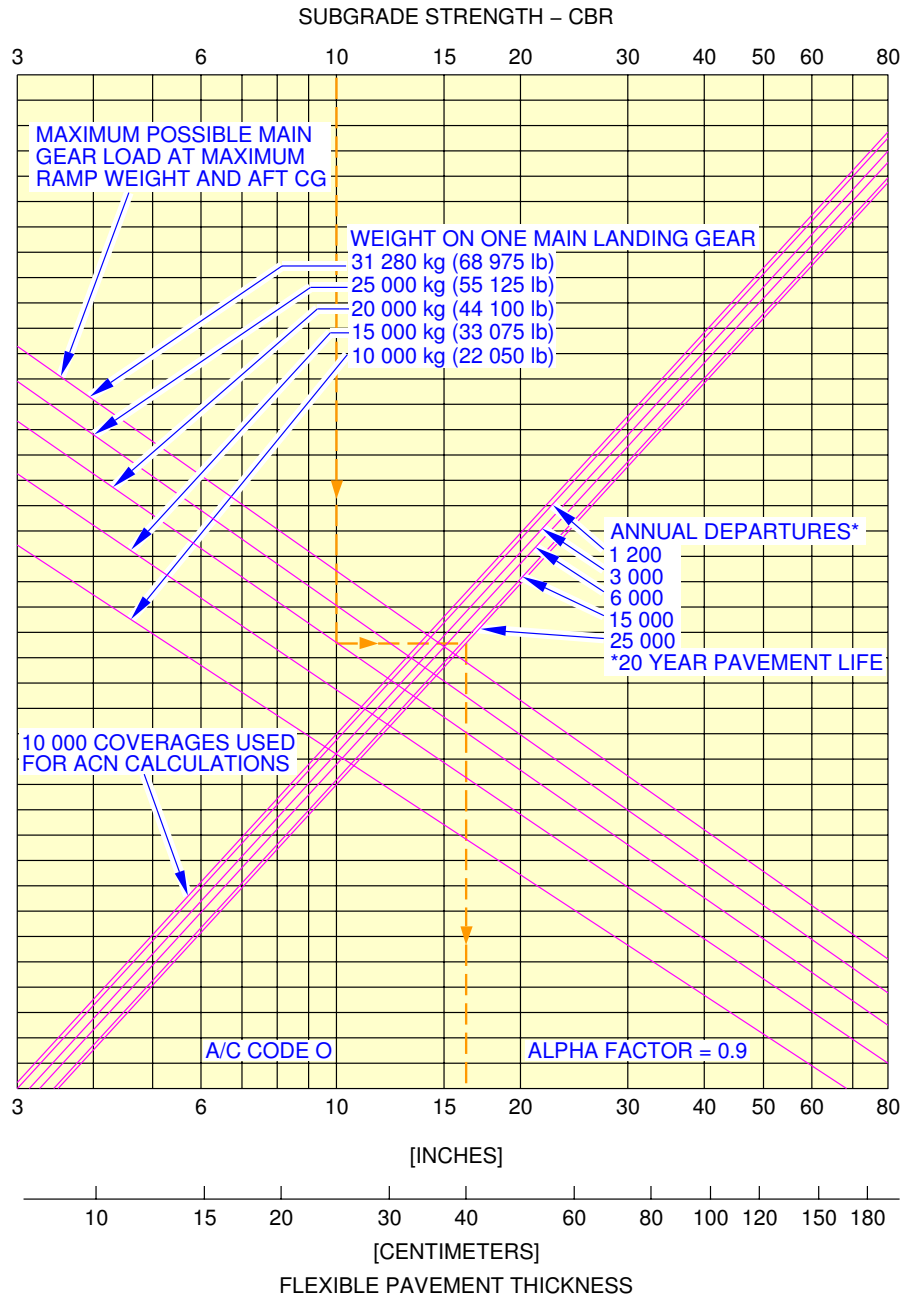


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)

N_AC_070501_1_0490101_01_00

Flexible Pavement Requirements
FIGURE 12

**ON A/C A319-100

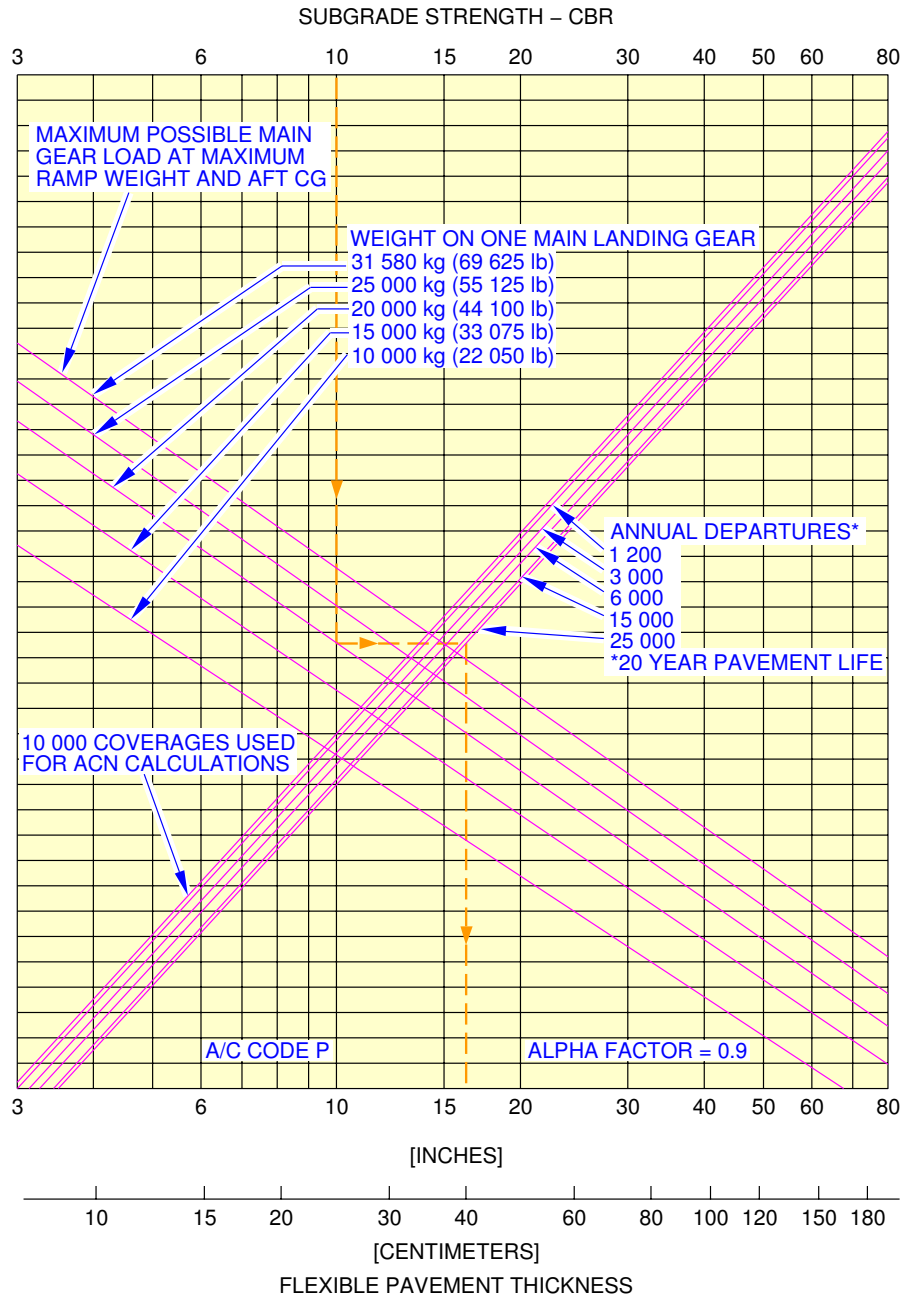


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)

N_AC_070501_1_0500101_01_00

Flexible Pavement Requirements
FIGURE 13

**ON A/C A319-100

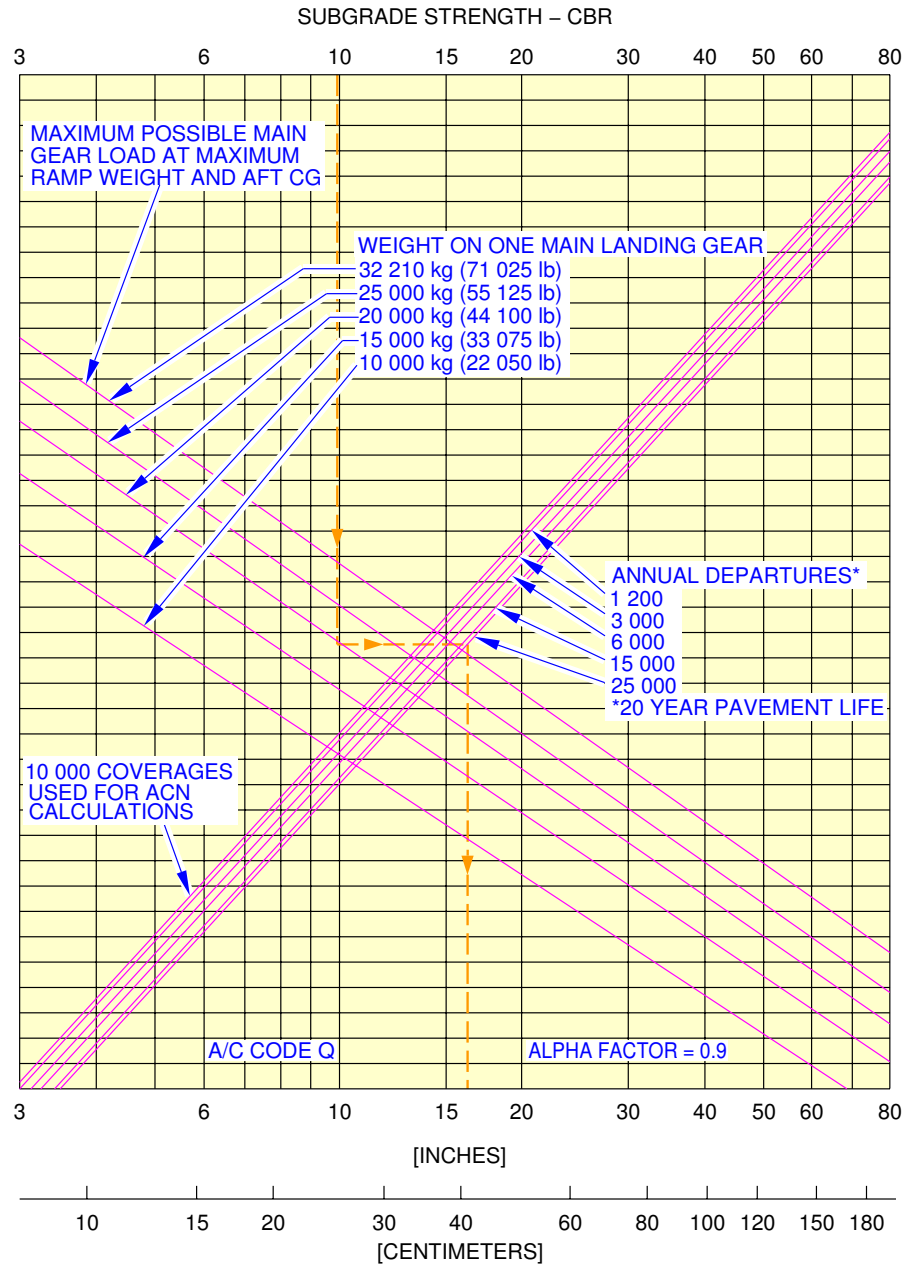


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)

N_AC_070501_1_0510101_01_00

Flexible Pavement Requirements
FIGURE 14

**ON A/C A319-100

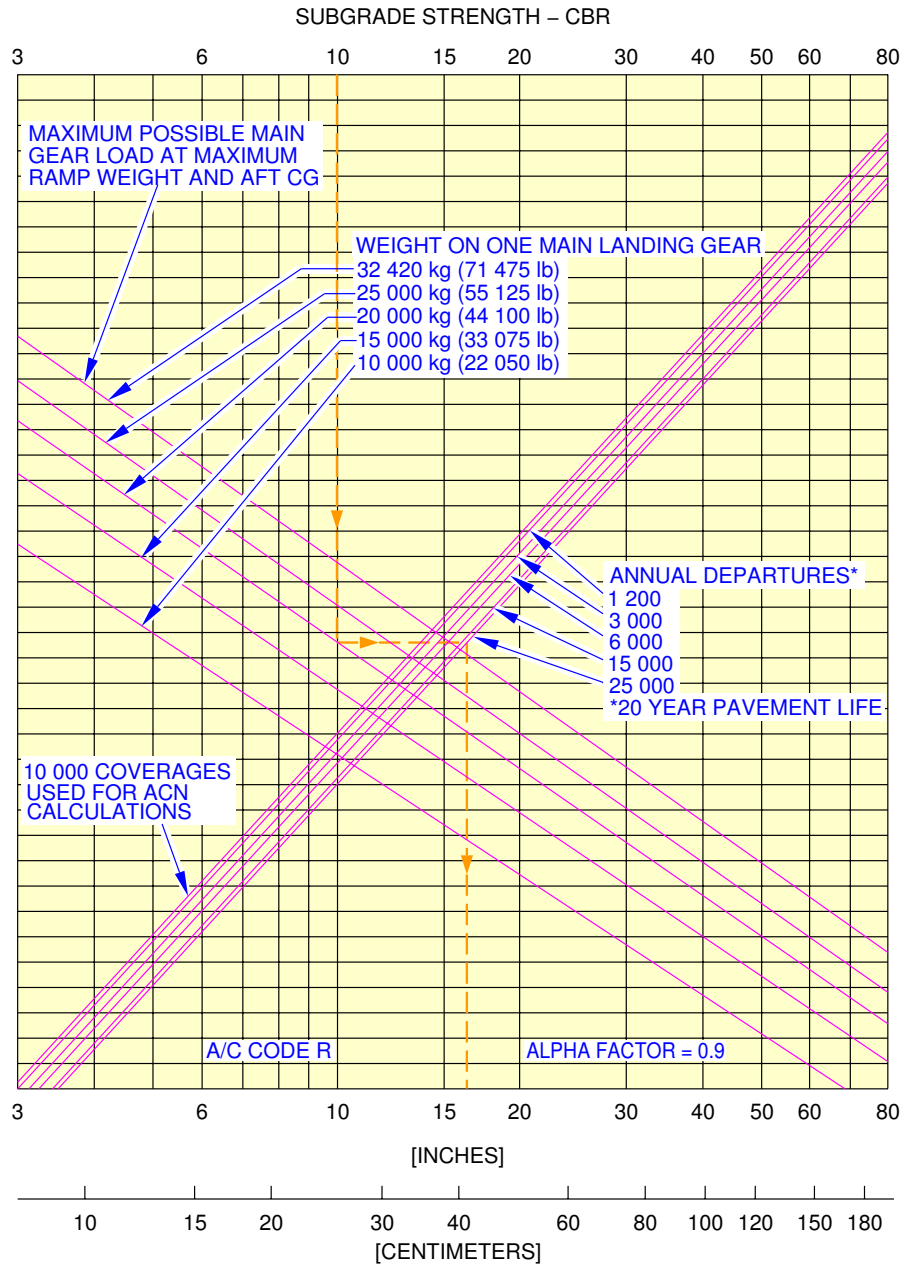


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)

N_AC_070501_1_0520101_01_00

Flexible Pavement Requirements
FIGURE 15

**ON A/C A319-100

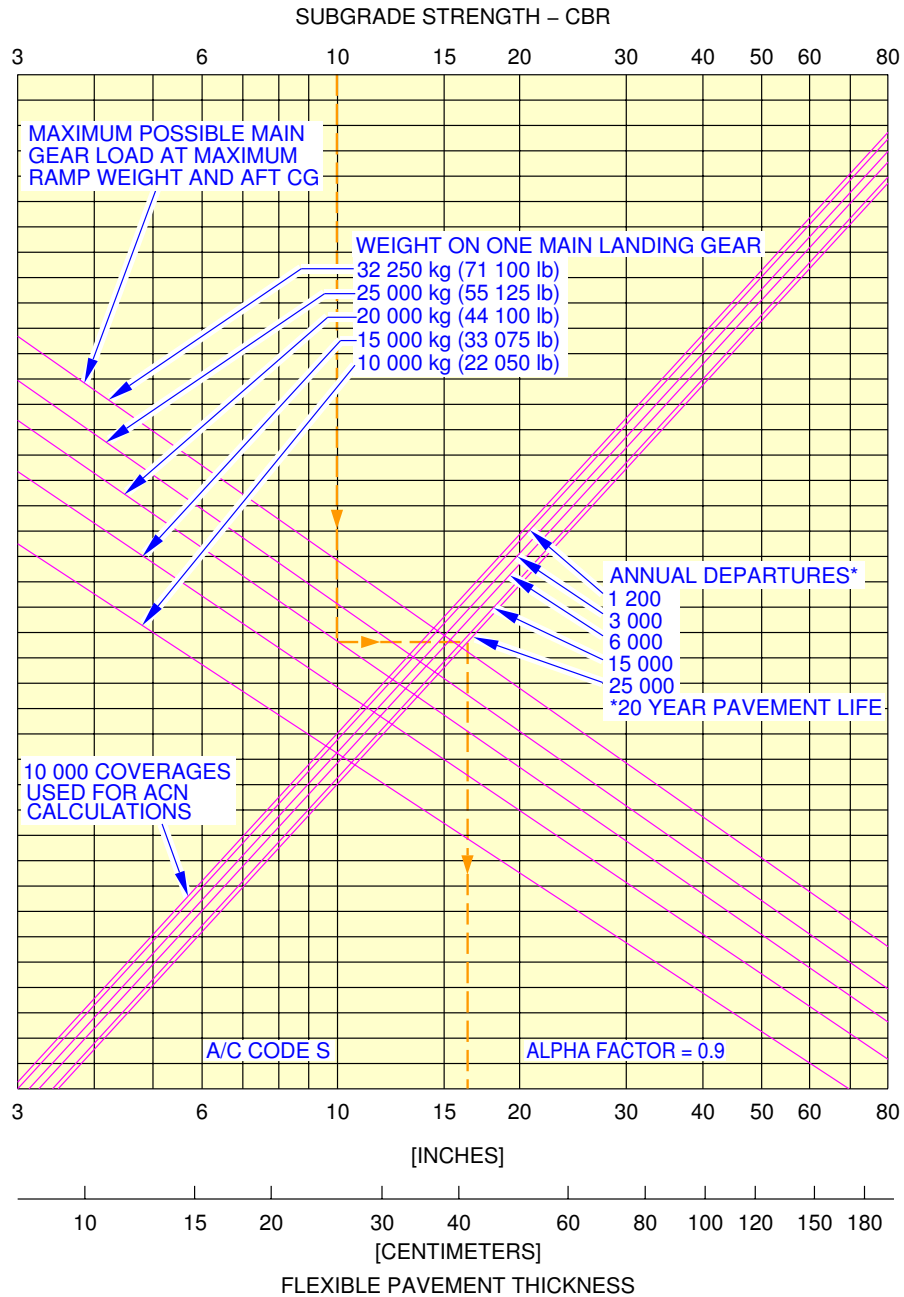


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)

N_AC_070501_1_0530101_01_00

Flexible Pavement Requirements
FIGURE 16

****ON A/C A319-100**

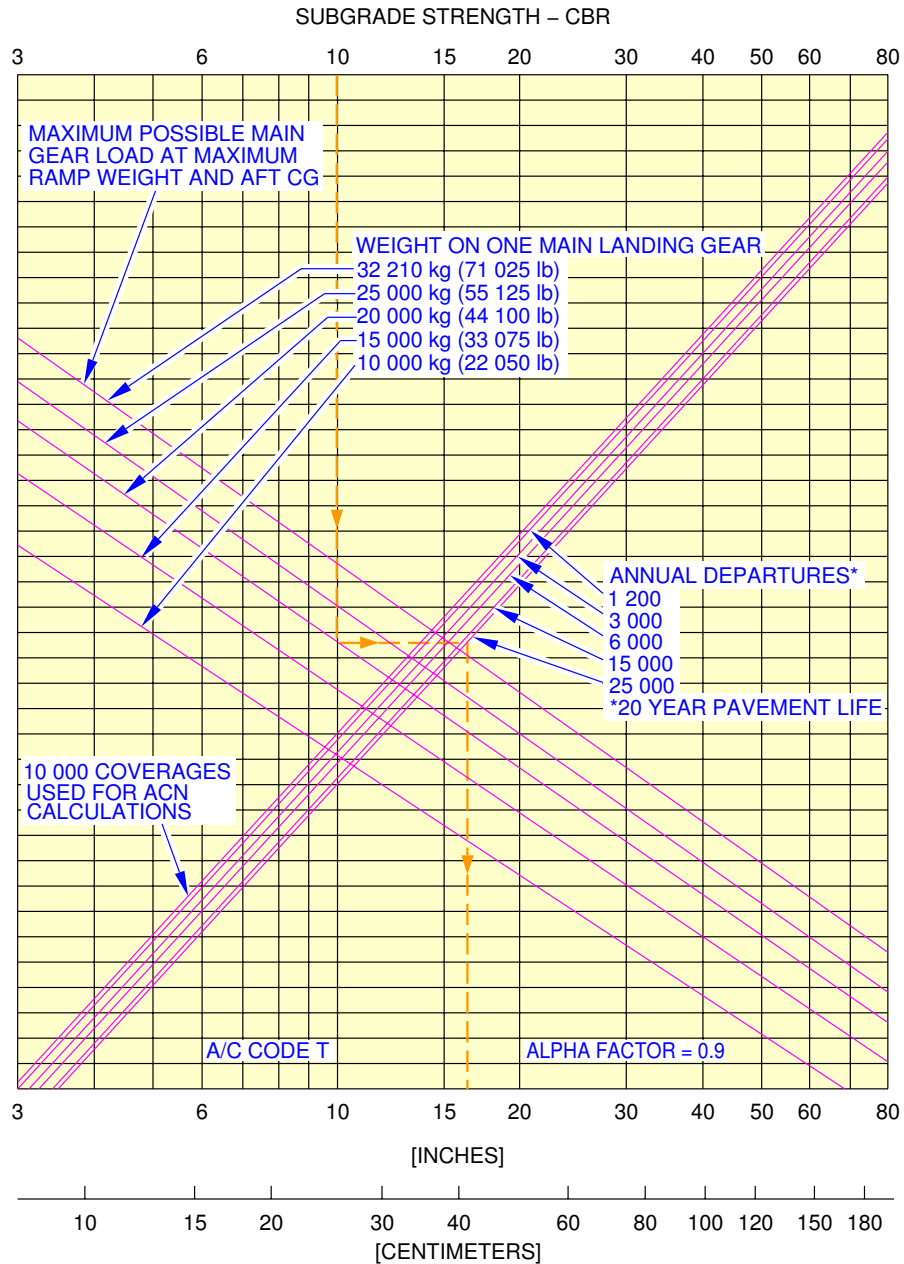


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)

N_AC_070501_1_0540101_01_00

Flexible Pavement Requirements
FIGURE 17

****ON A/C A319-100**

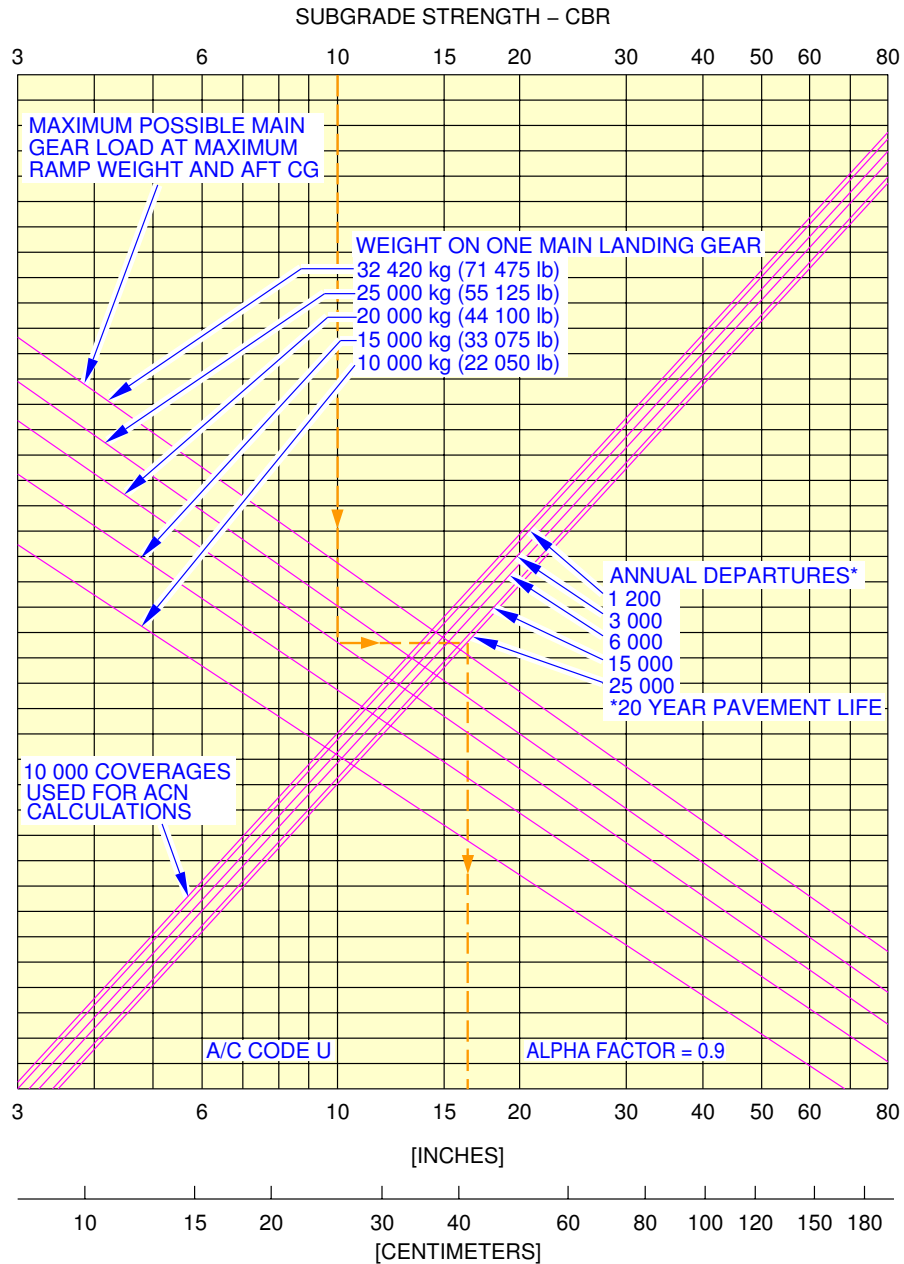


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)

N_AC_070501_1_0550101_01_00

Flexible Pavement Requirements
FIGURE 18

**ON A/C A319-100

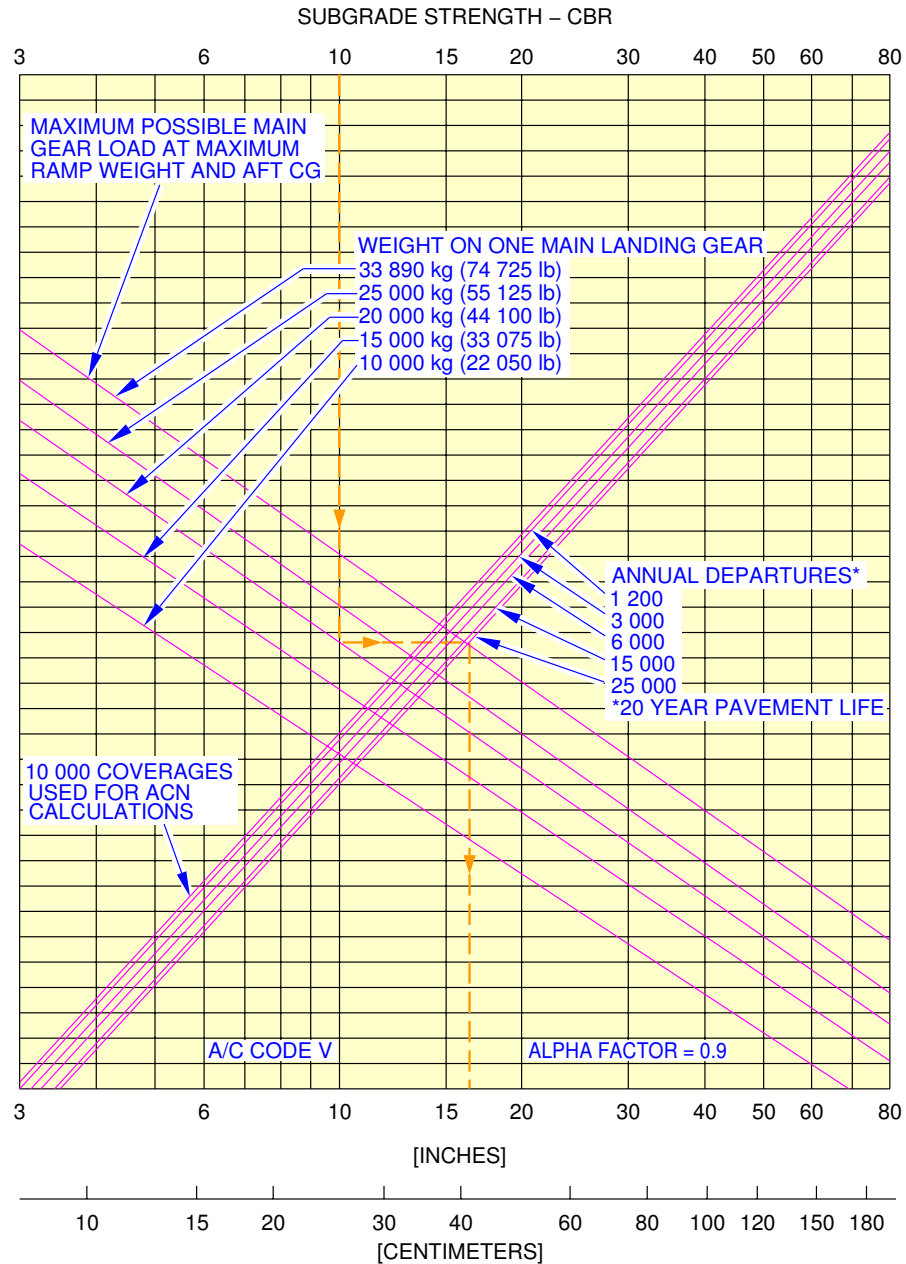


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)

N_AC_070501_1_0560101_01_00

Flexible Pavement Requirements
FIGURE 19

****ON A/C A319-100**

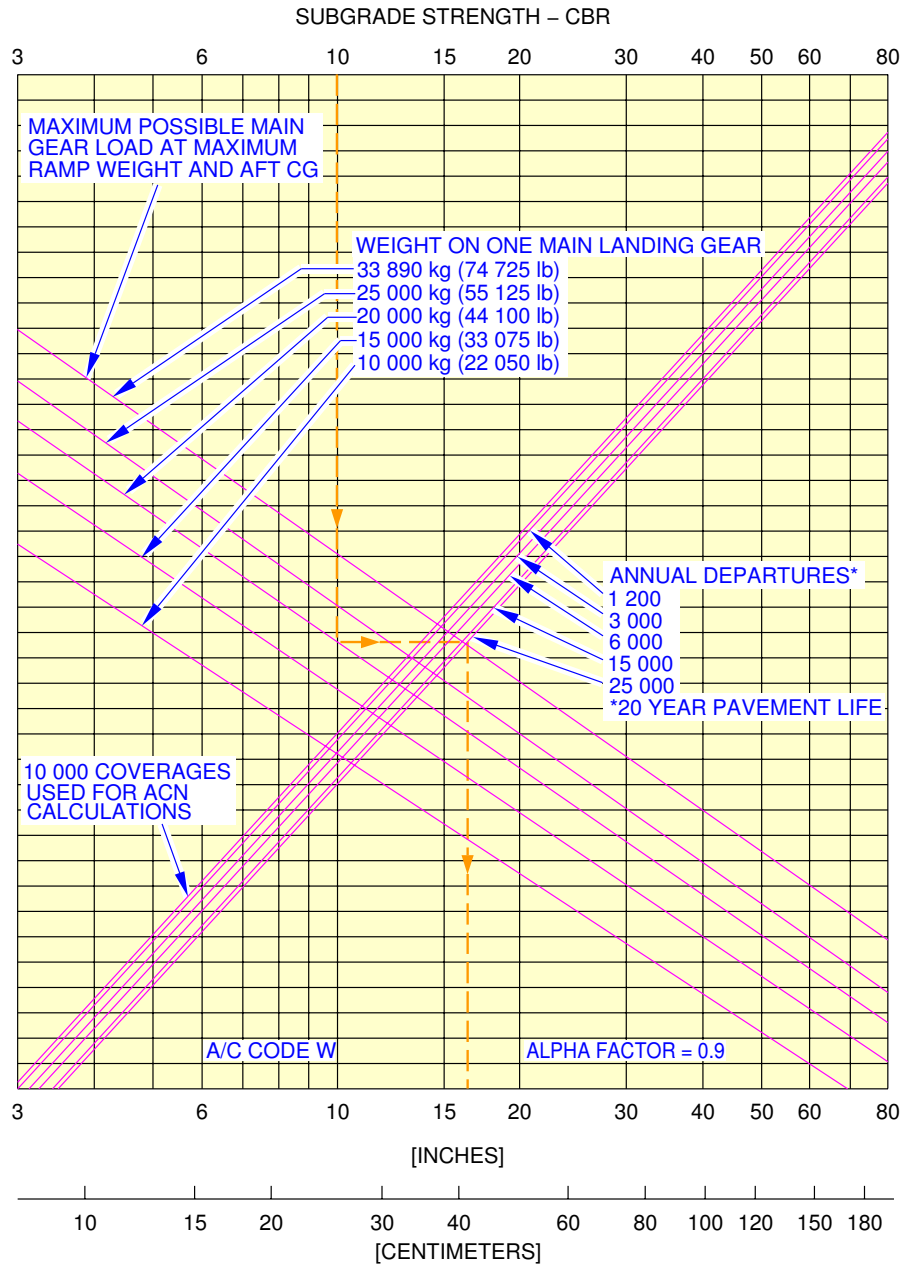


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 13.4 bar (194 psi)

N_AC_070501_1_0570101_01_00

Flexible Pavement Requirements
FIGURE 20

****ON A/C A319-100**

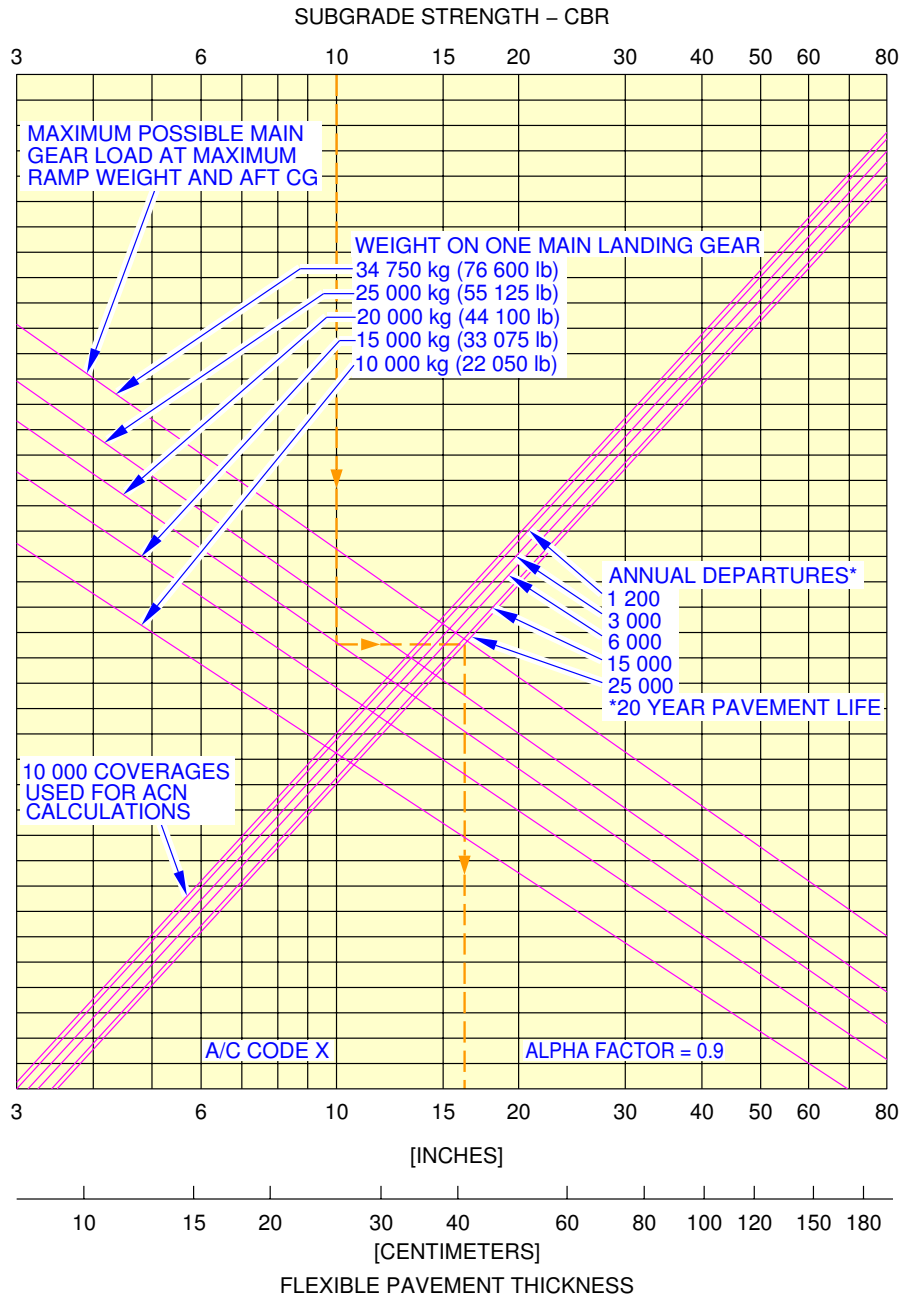


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 13.4 bar (194 psi)

N_AC_070501_1_0580101_01_00

Flexible Pavement Requirements
FIGURE 21

**ON A/C A319-100

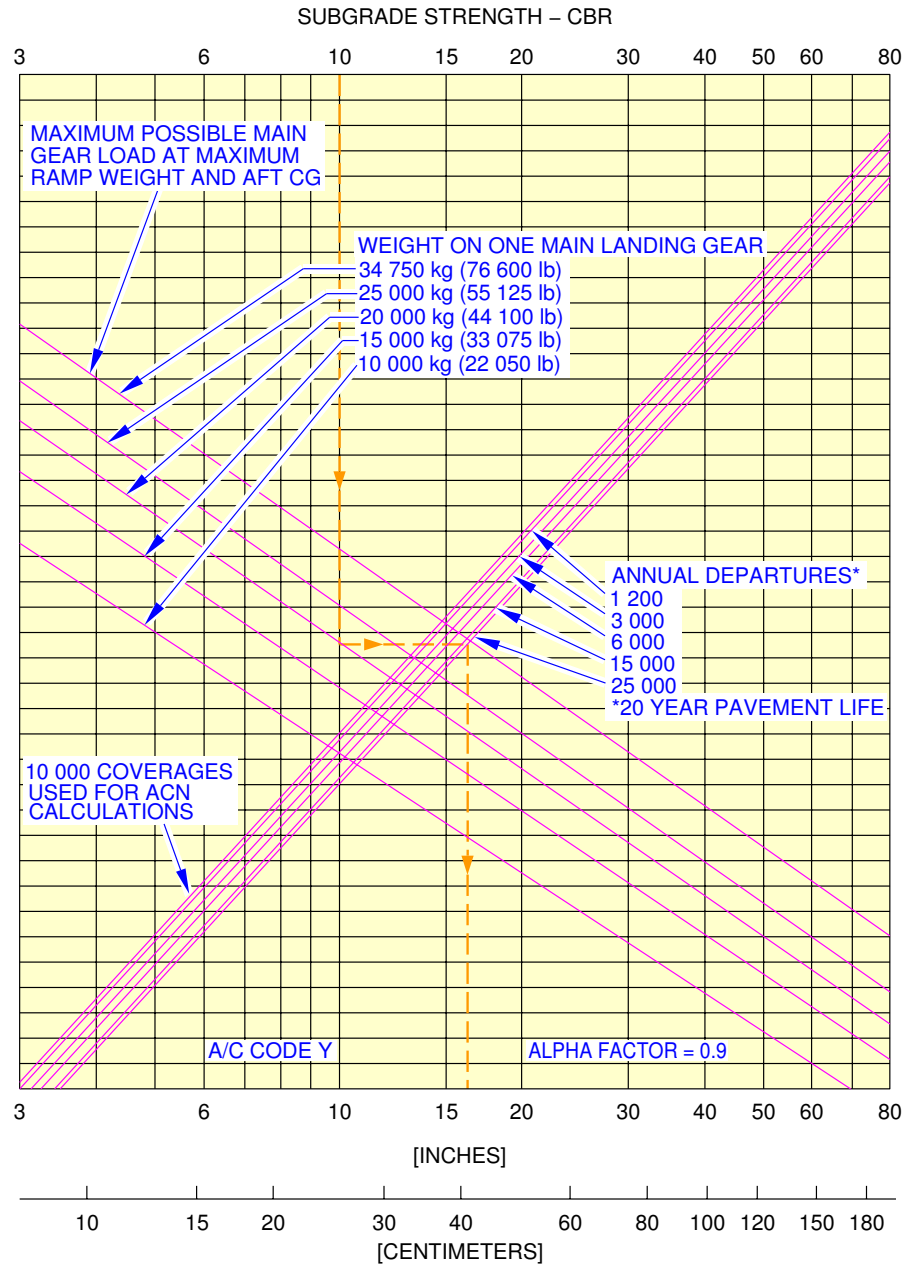


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)

N_AC_070501_1_0590101_01_00

Flexible Pavement Requirements
FIGURE 22

**ON A/C A319-100

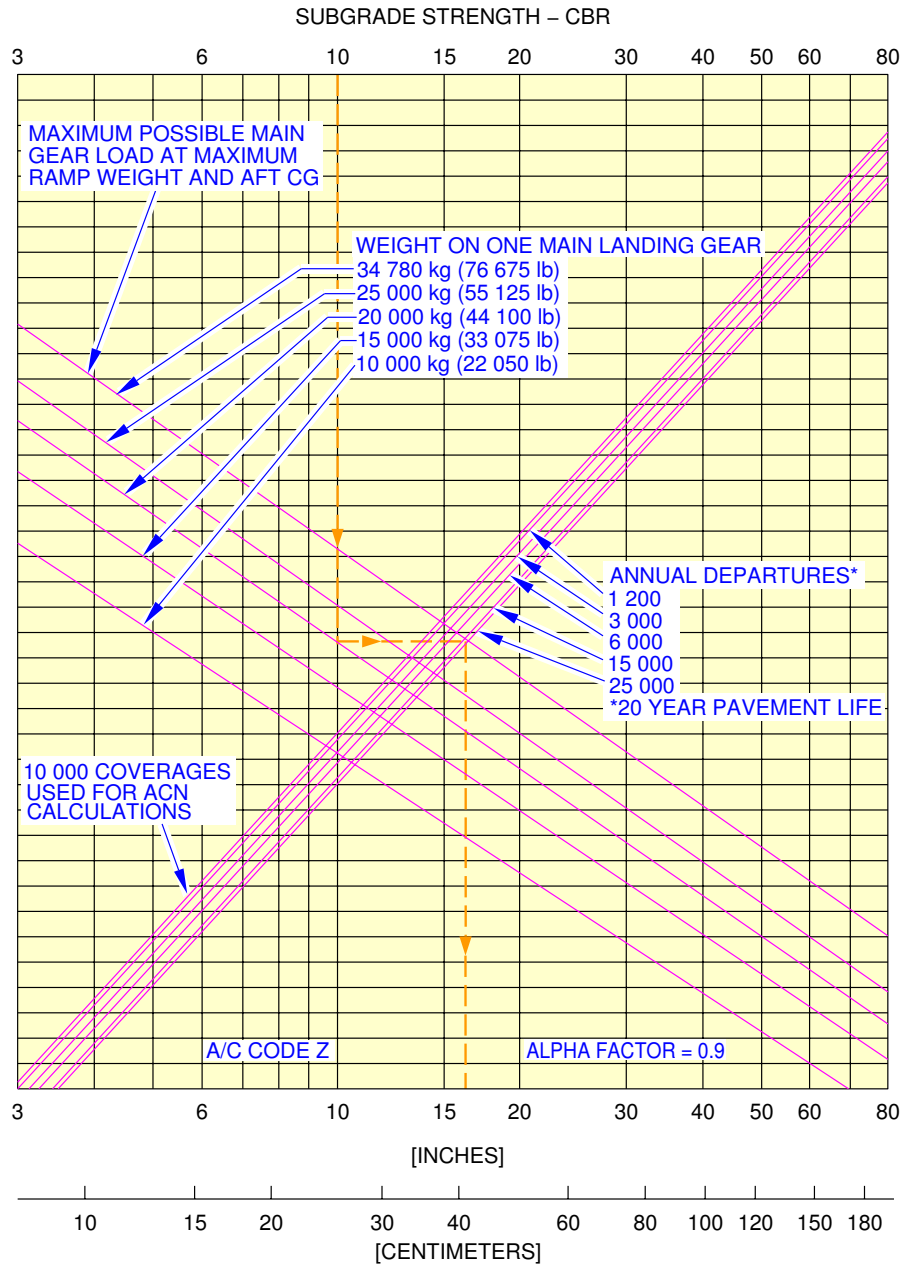


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)

N_AC_070501_1_0600101_01_00

Flexible Pavement Requirements
FIGURE 23

**ON A/C A319-100

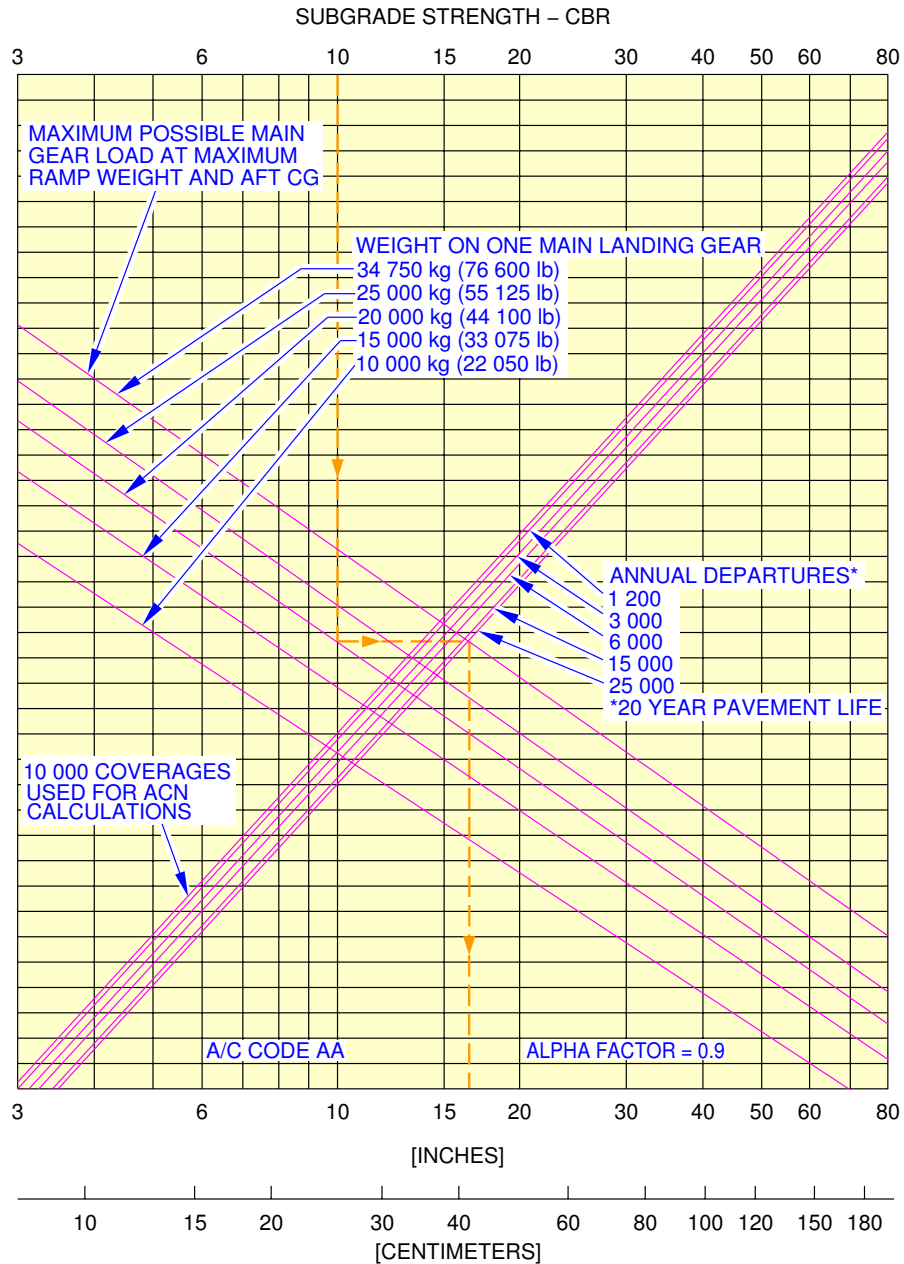


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)

N_AC_070501_1_0610101_01_00

Flexible Pavement Requirements
FIGURE 24

****ON A/C A319-100**

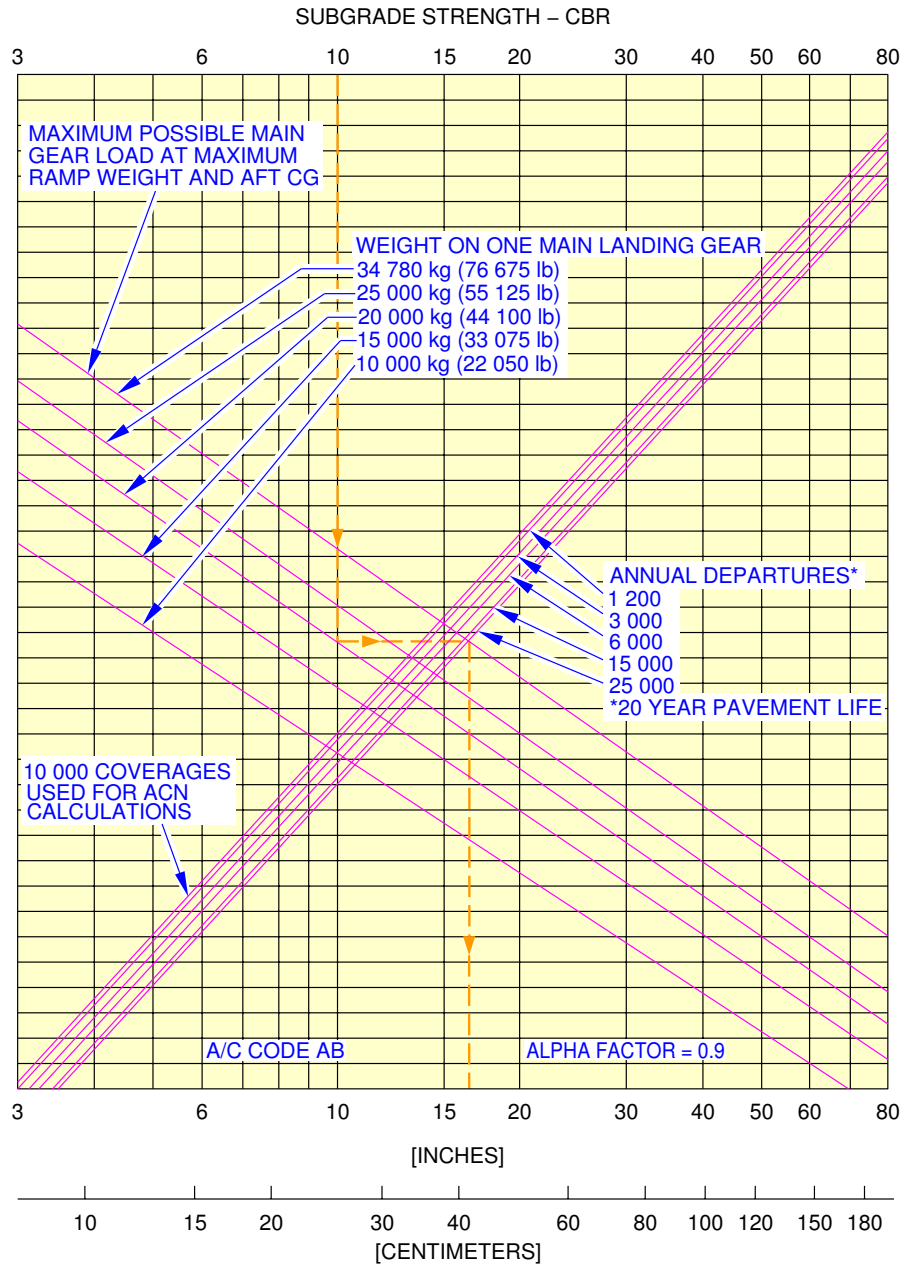


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)

N_AC_070501_1_0620101_01_00

Flexible Pavement Requirements
FIGURE 25

**ON A/C A319-100

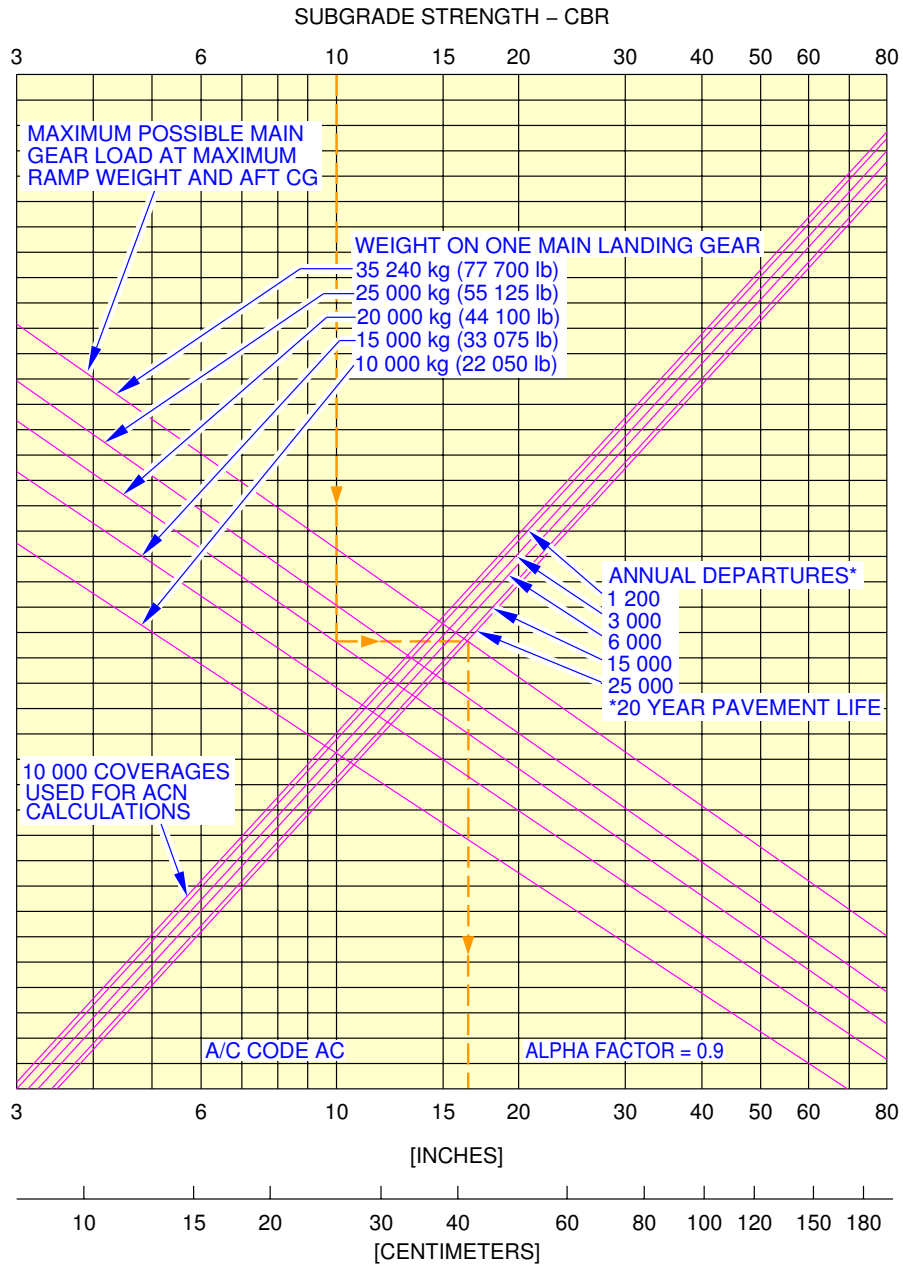


46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)

N_AC_070501_1_0630101_01_00

Flexible Pavement Requirements
FIGURE 26

**ON A/C A319-100



46 x 17 R20 (46 x 16–20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)

N_AC_070501_1_0640101_01_00

Flexible Pavement Requirements
FIGURE 27

7-6-0 Flexible Pavement Requirements - LCN Conversion****ON A/C A319-100**Flexible Pavement Requirements - LCN Conversion**1. General**

In order to determine the airplane weight that can be accommodated on a particular Flexible Pavement, both the LCN of the pavement and the thickness (h) must be known.

In the example shown in Section 7-6-1 Flexible Pavement Requirements - LCN Conversion, A/C Code C for:

The thickness (h) is shown at 20 inches with an LCN of 52.3.

For these conditions, the weight on one Main Landing Gear is 25 000 kg (55 125 lb).

7-6-1 Flexible Pavement Requirements - LCN Conversion

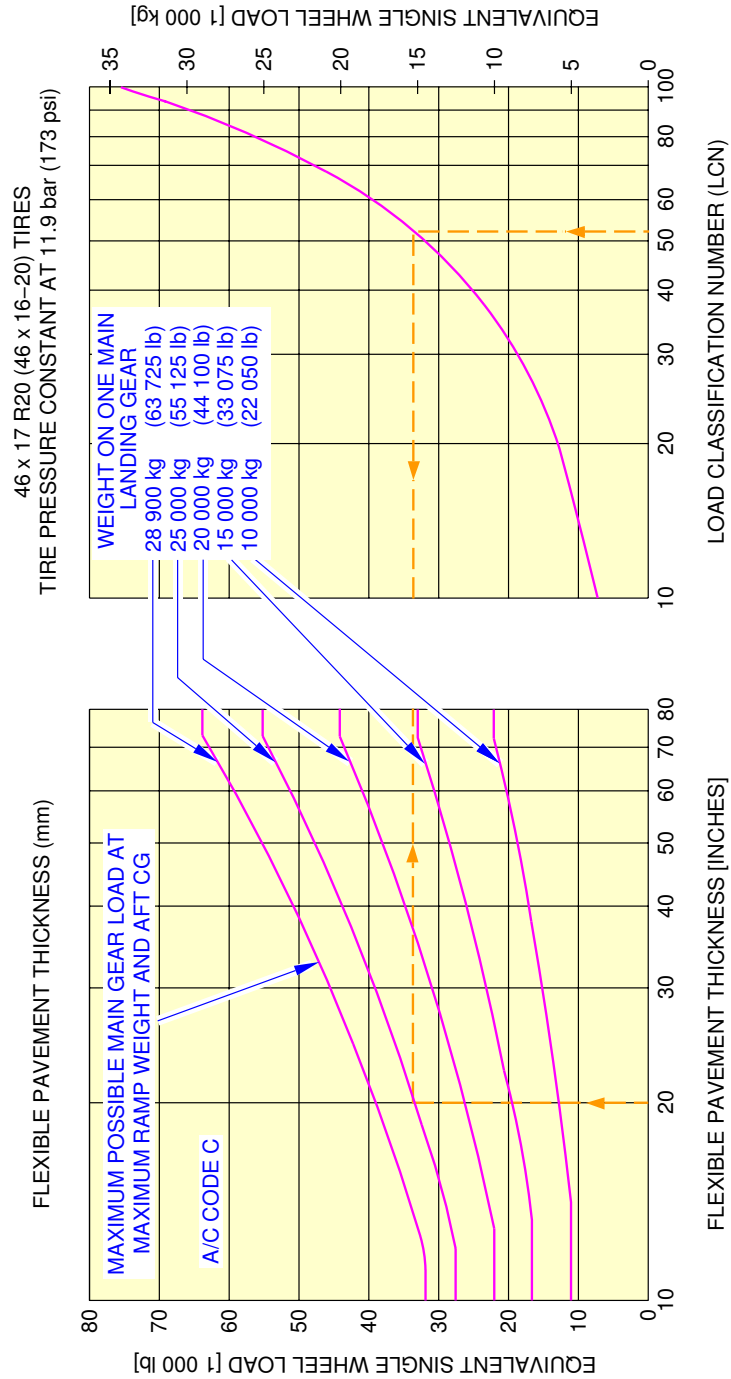
****ON A/C A319-100**

Flexible Pavement Requirements - LCN Conversion

1. This section gives Flexible Pavement Requirements - LCN Conversion.

I NOTE : For A/C Code definition, refer to chapter 7-1-0.

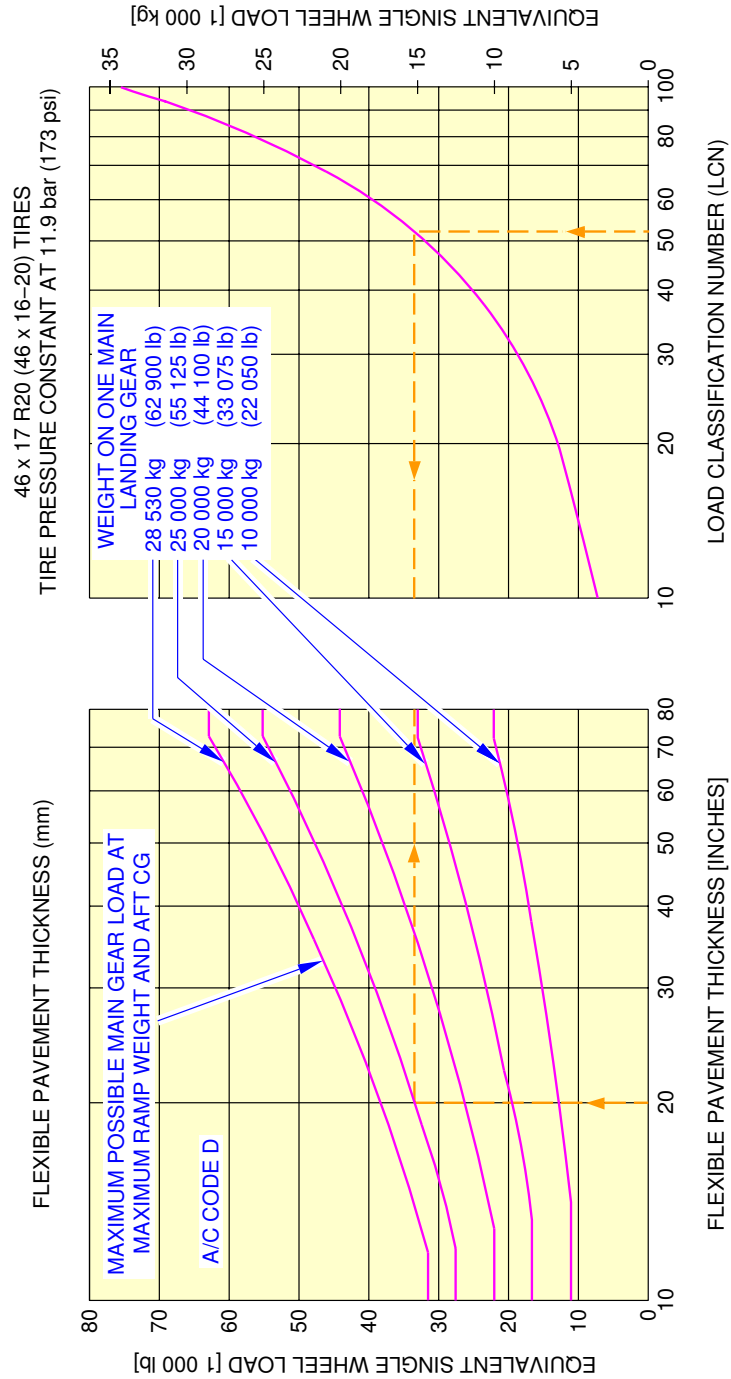
****ON A/C A319-100**



N_AC_070601_1_0410101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 1

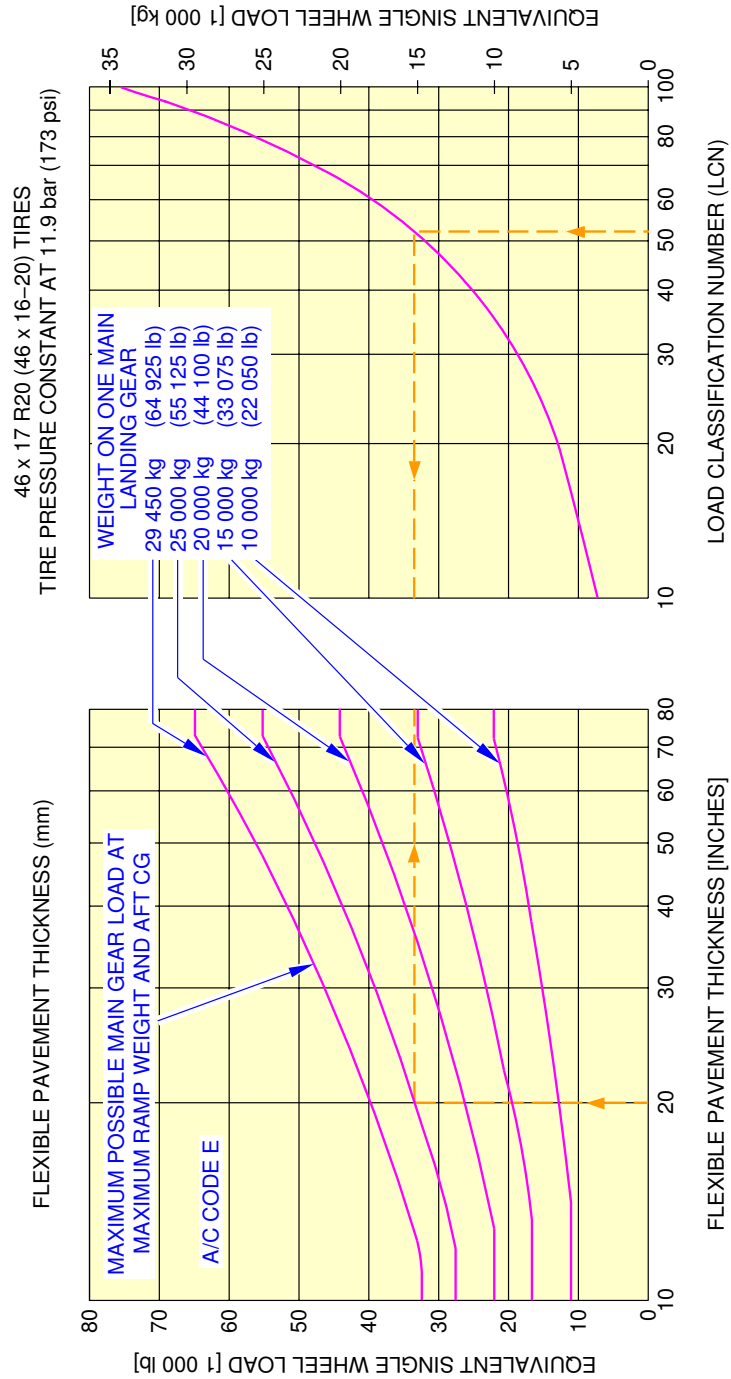
****ON A/C A319-100**



N_AC_070601_1_0420101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 2

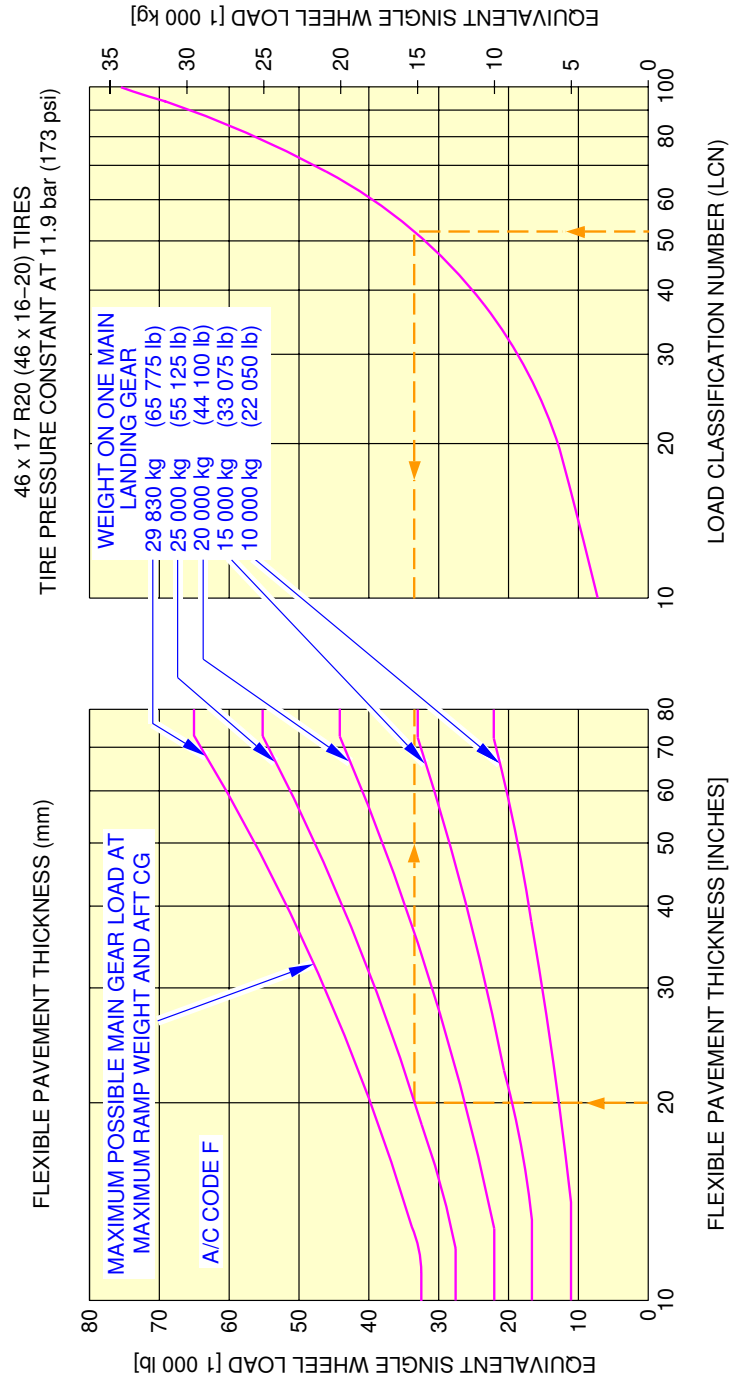
****ON A/C A319-100**



N_AC_070601_1_0430101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 3

****ON A/C A319-100**

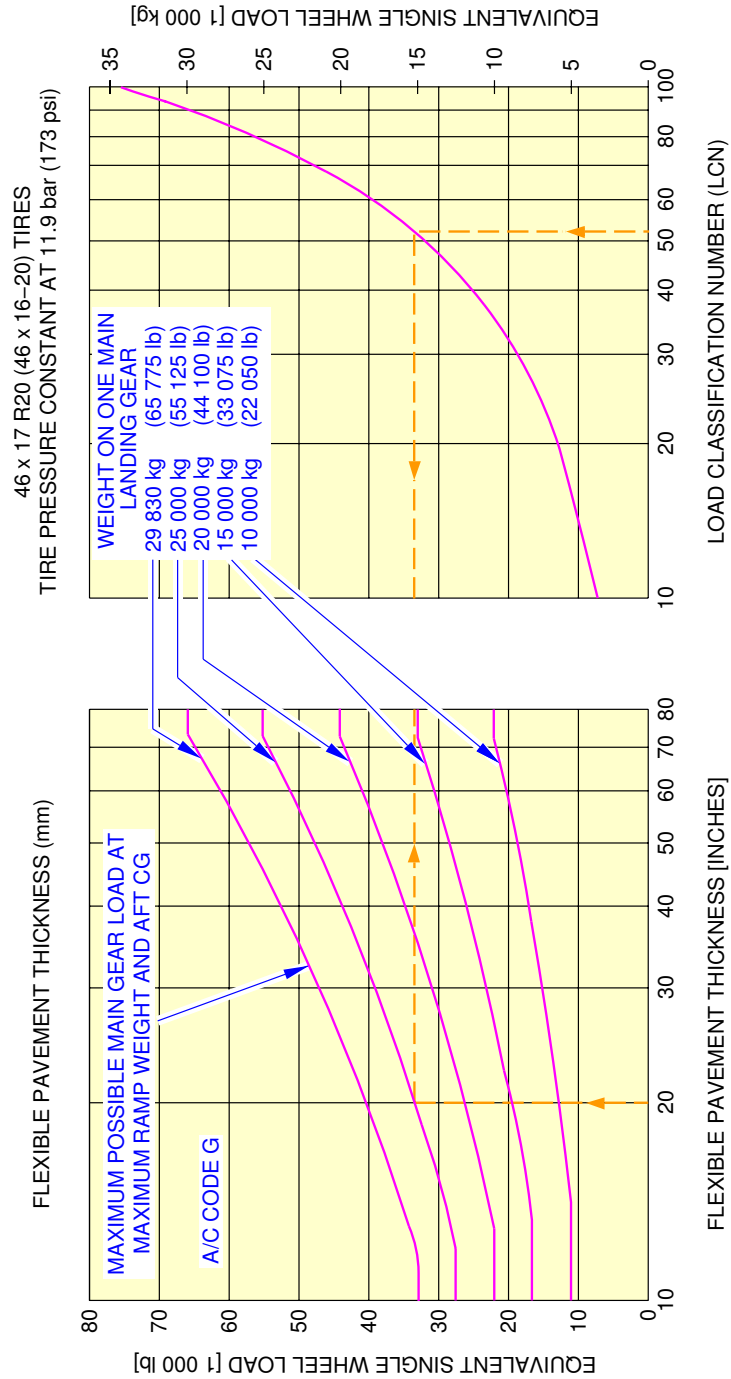


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0440101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 4

****ON A/C A319-100**

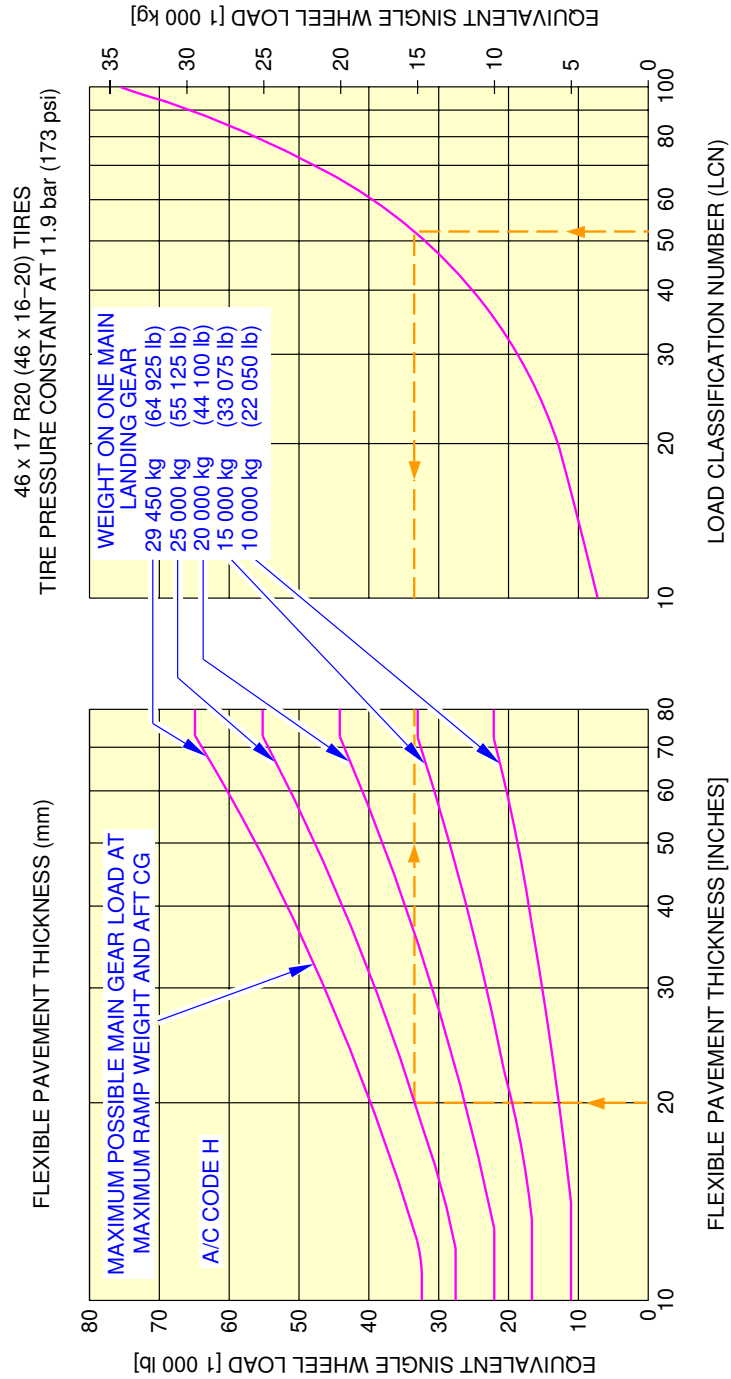


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0450101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 5

****ON A/C A319-100**

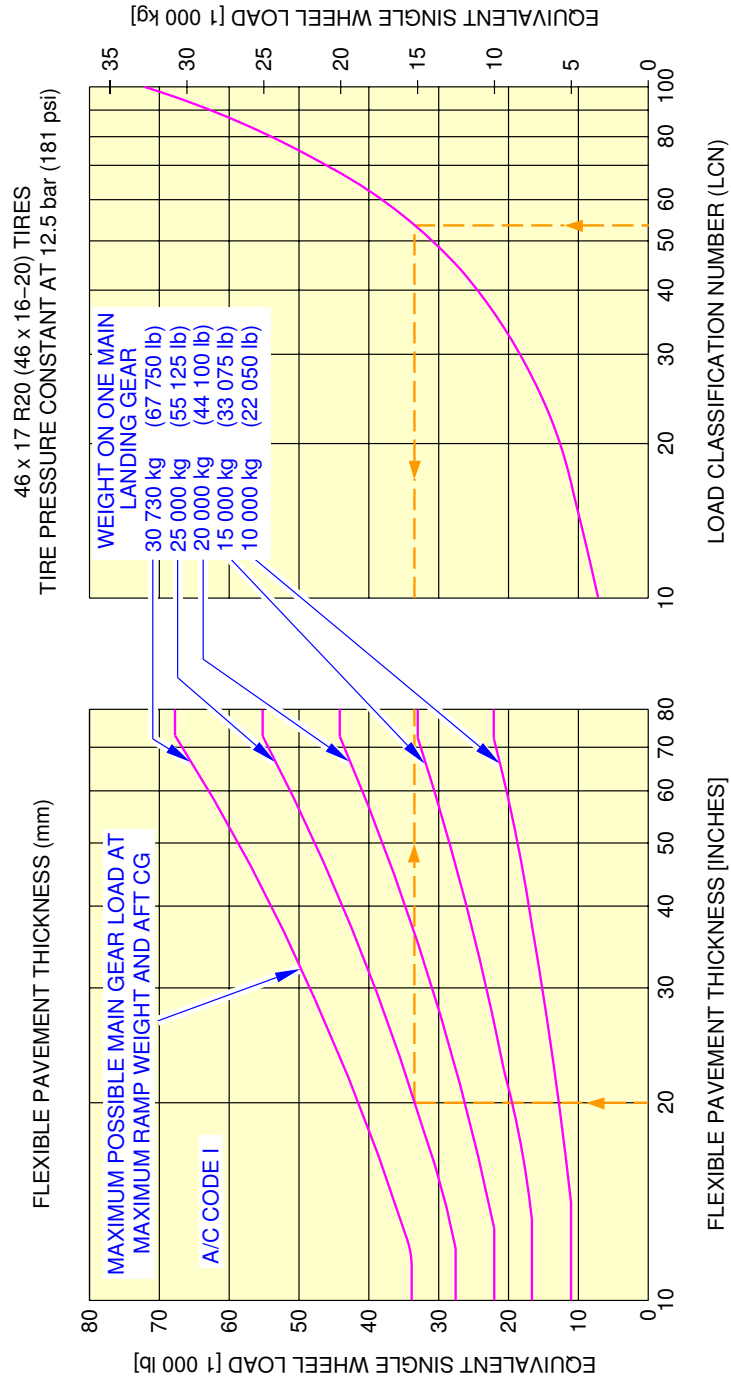


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0460101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 6

****ON A/C A319-100**

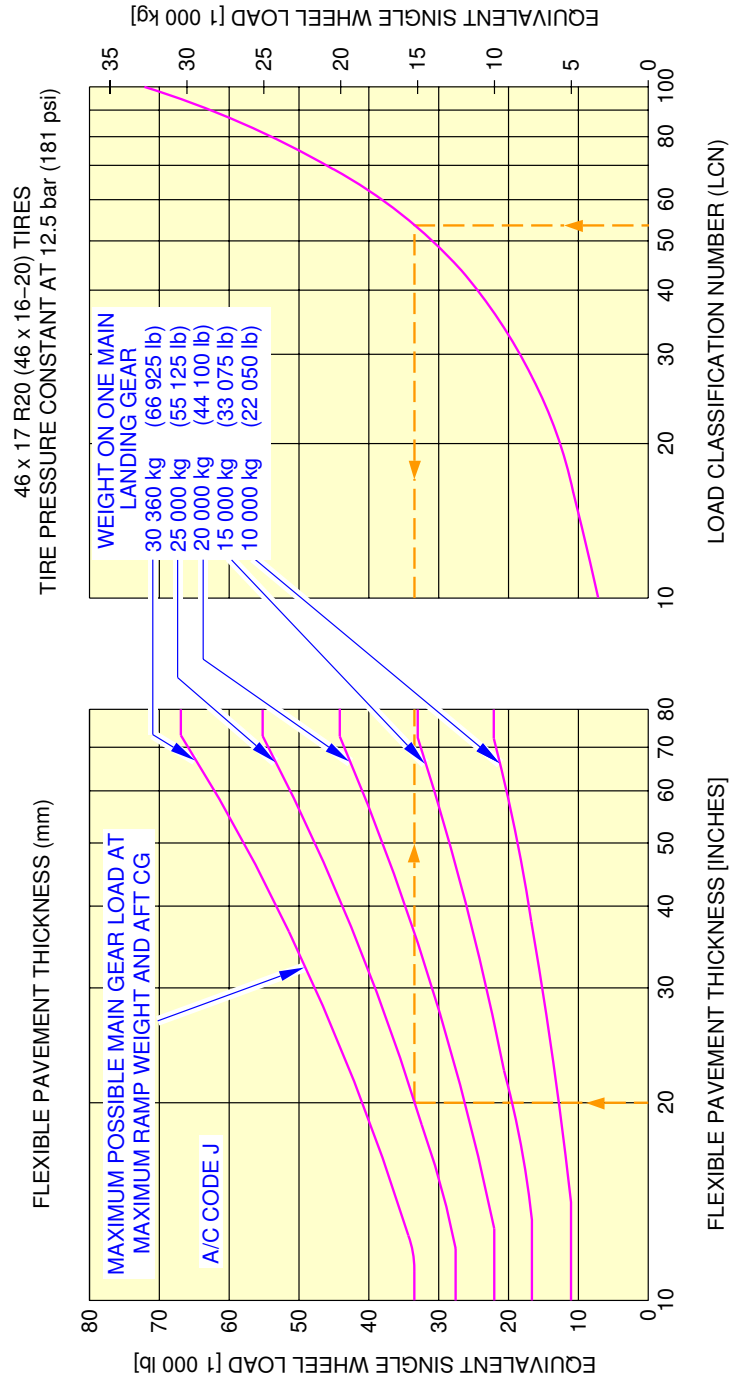


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0470101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 7

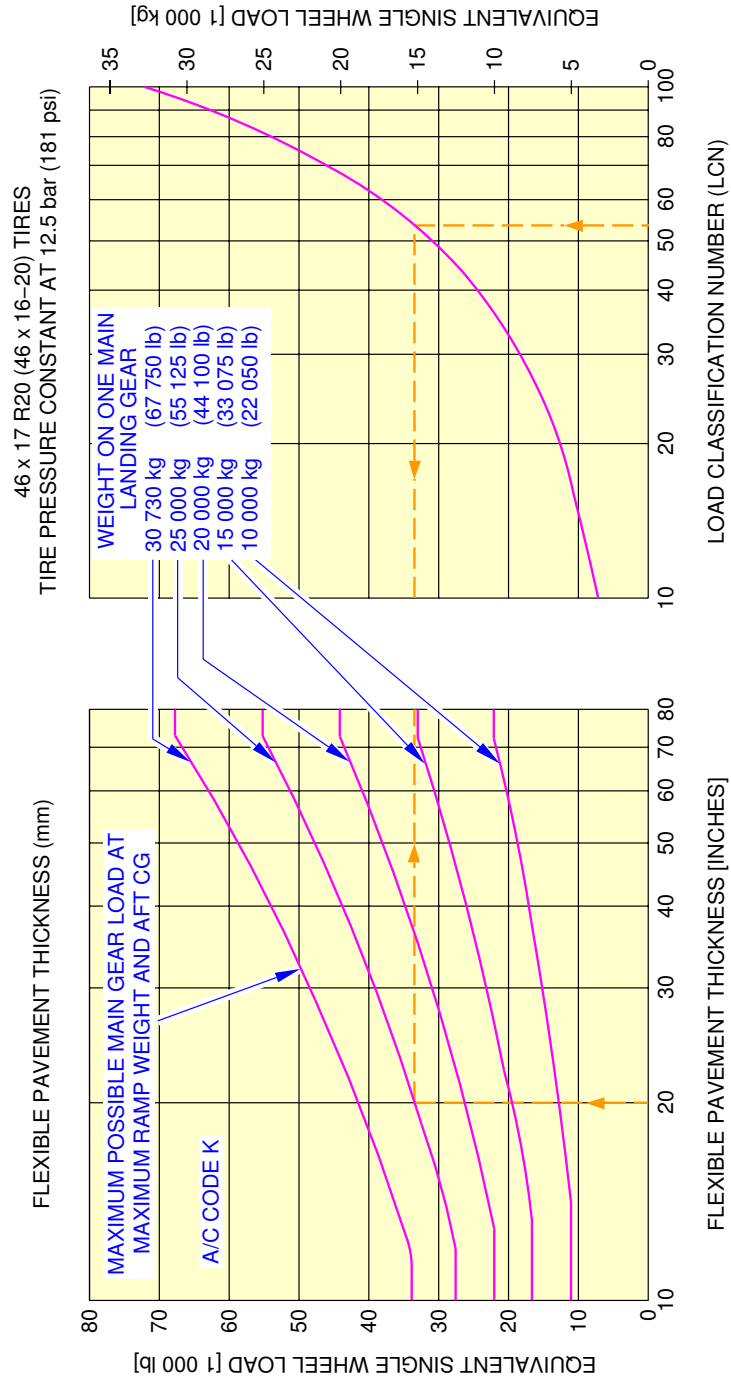
****ON A/C A319-100**



N_AC_070601_1_0480101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 8

****ON A/C A319-100**

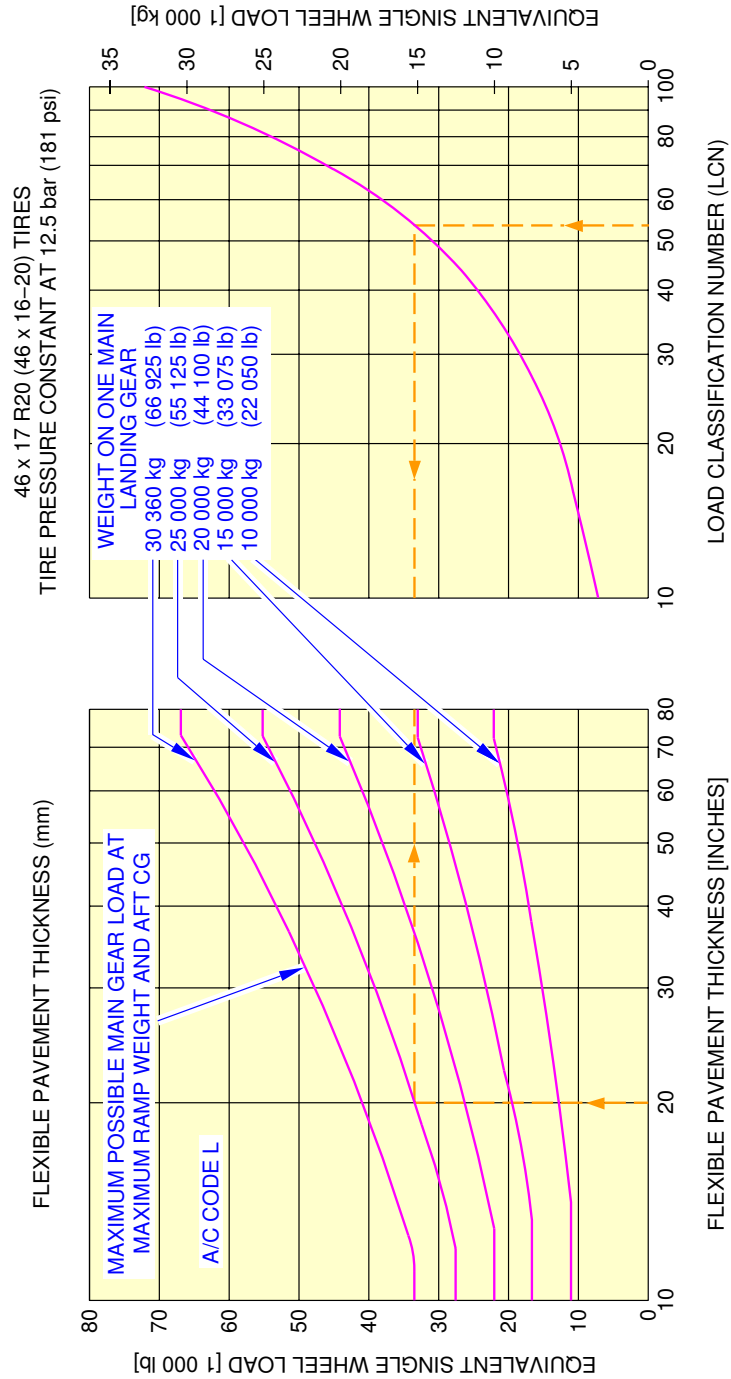


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0490101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 9

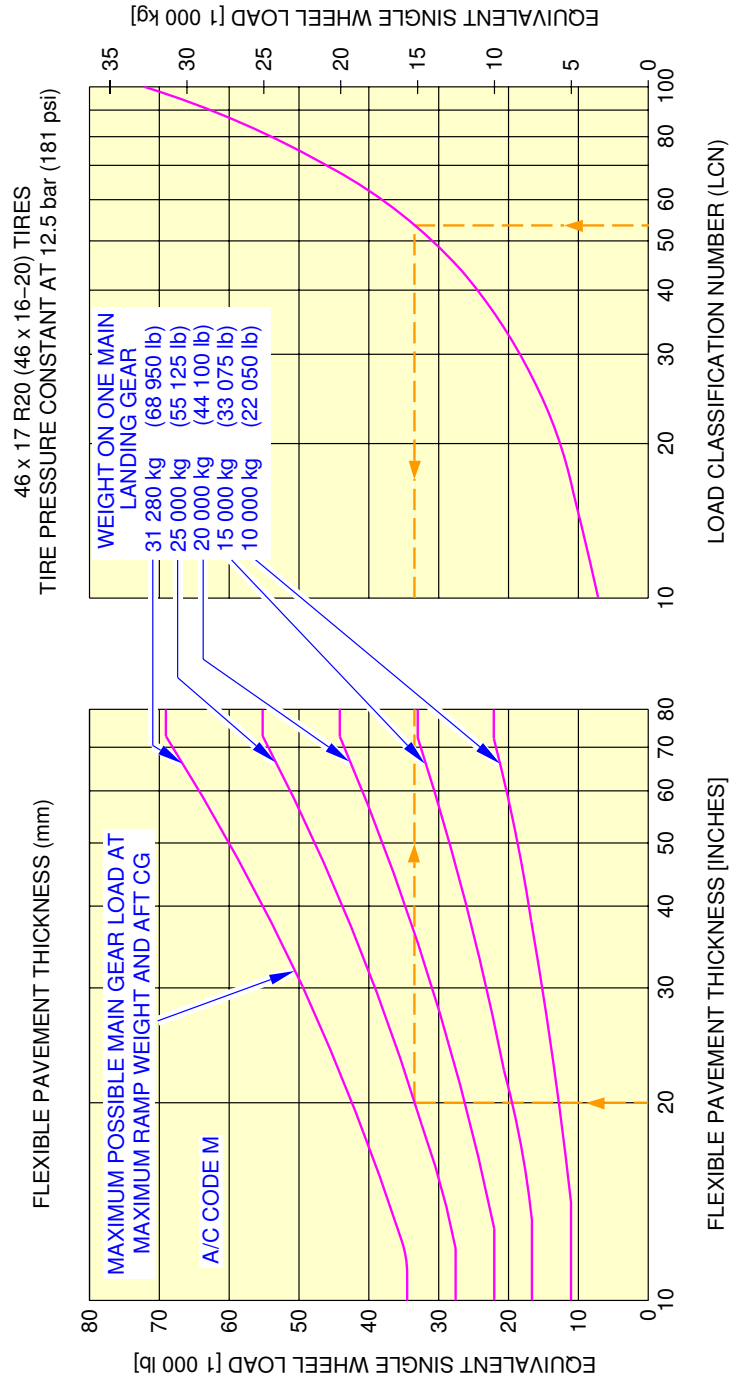
****ON A/C A319-100**



N_AC_070601_1_0500101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 10

****ON A/C A319-100**

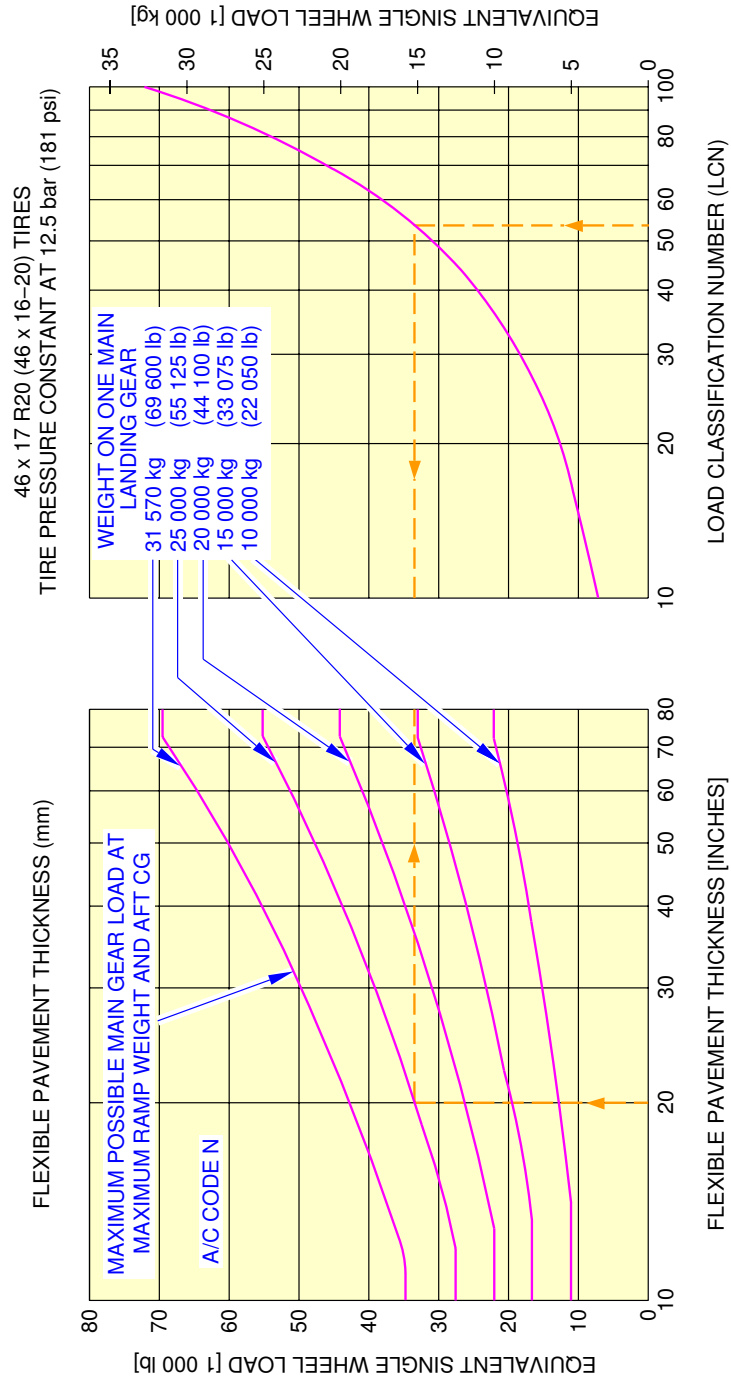


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0510101_01_00

Flexible Pavement Requirements - LCN Conversion
Flexible Pavement Requirements - LCN Conversion
FIGURE 11

****ON A/C A319-100**

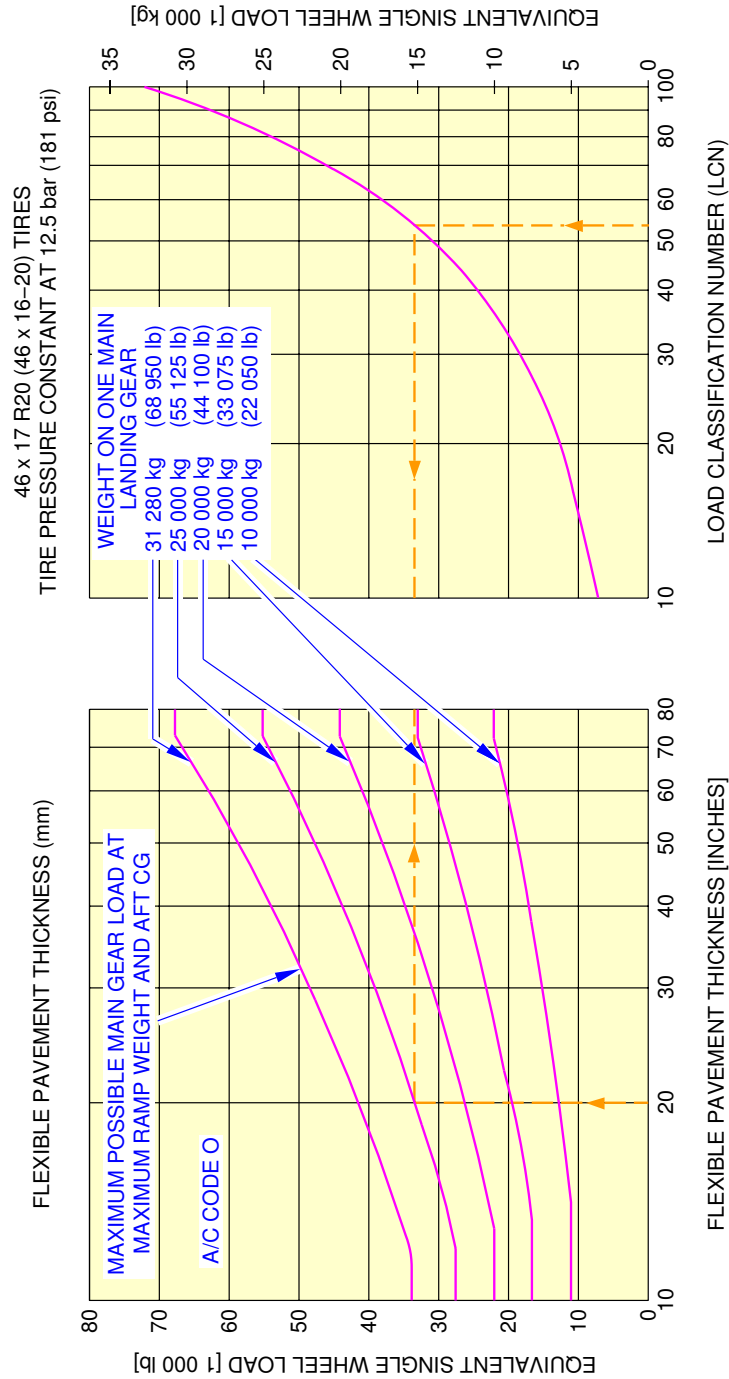


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0520101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 12

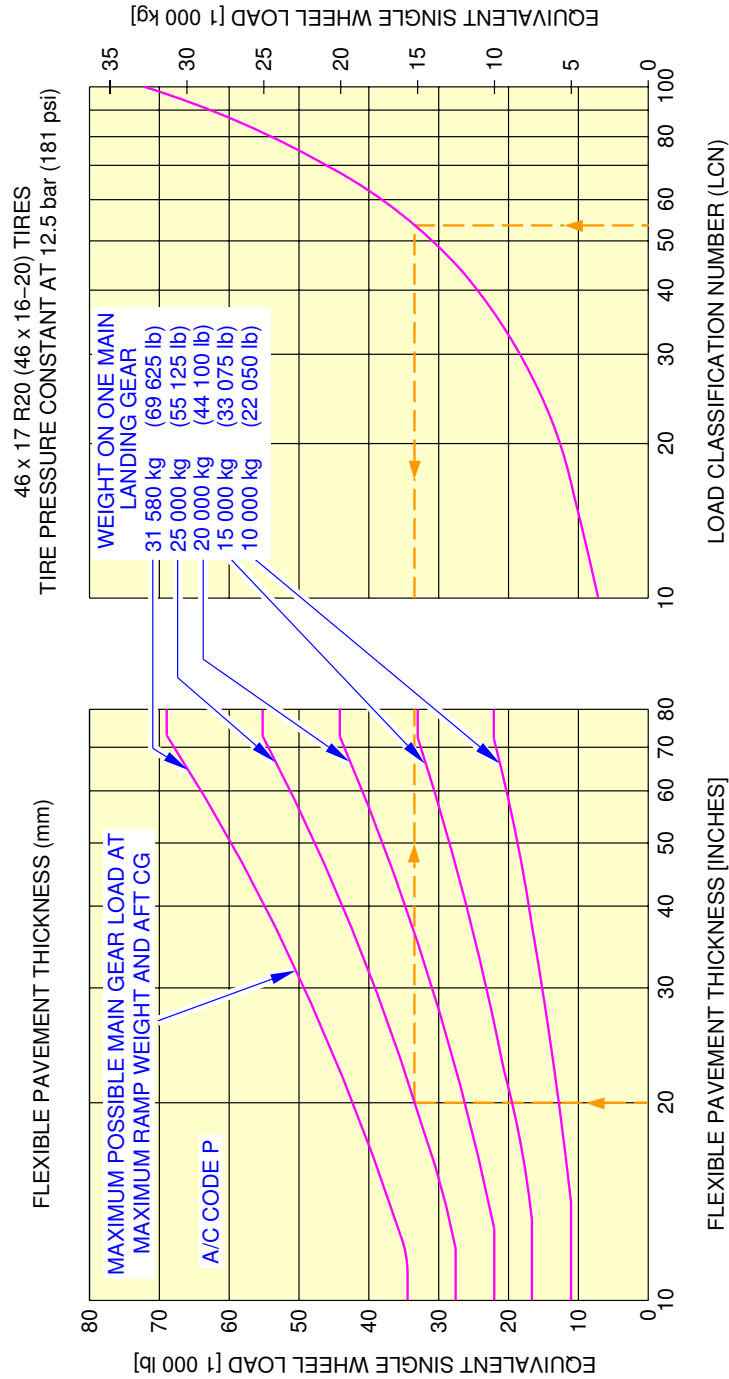
****ON A/C A319-100**



N_AC_070601_1_0530101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 13

****ON A/C A319-100**

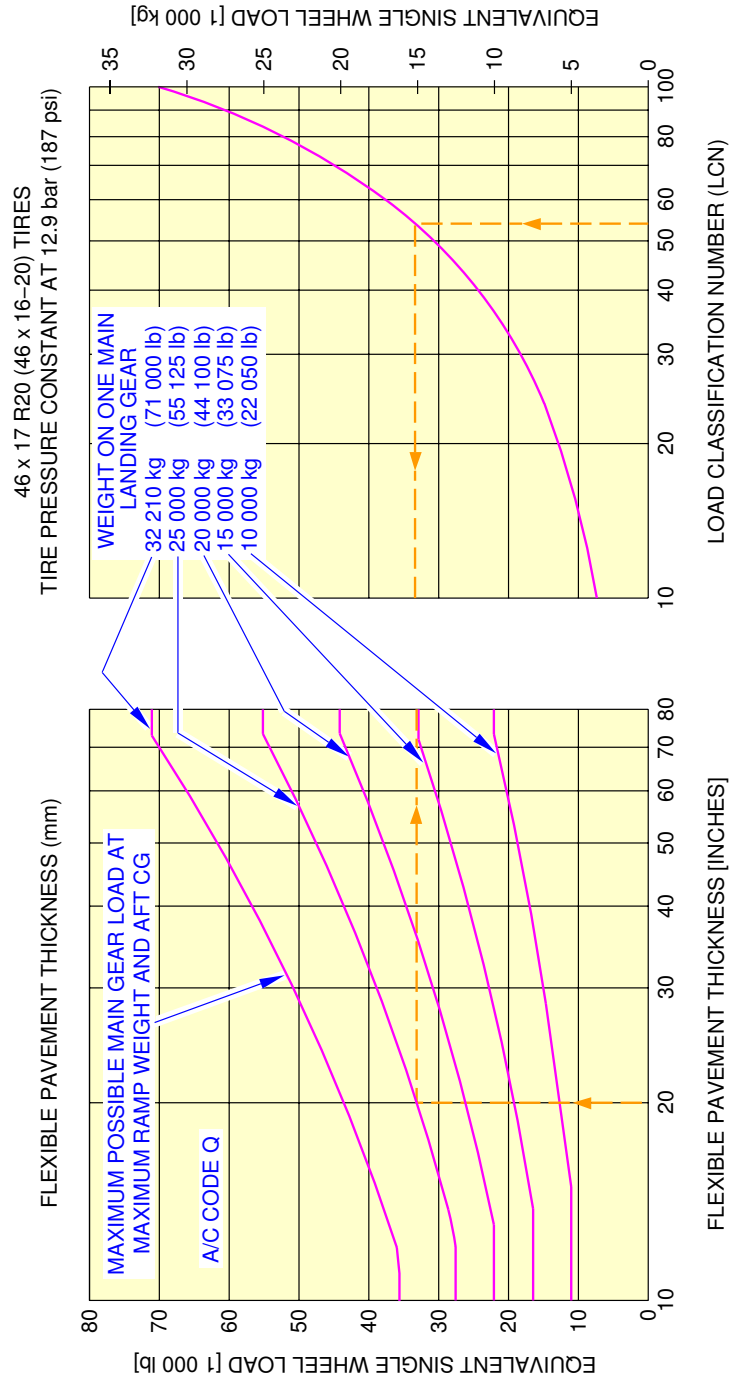


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0540101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 14

****ON A/C A319-100**

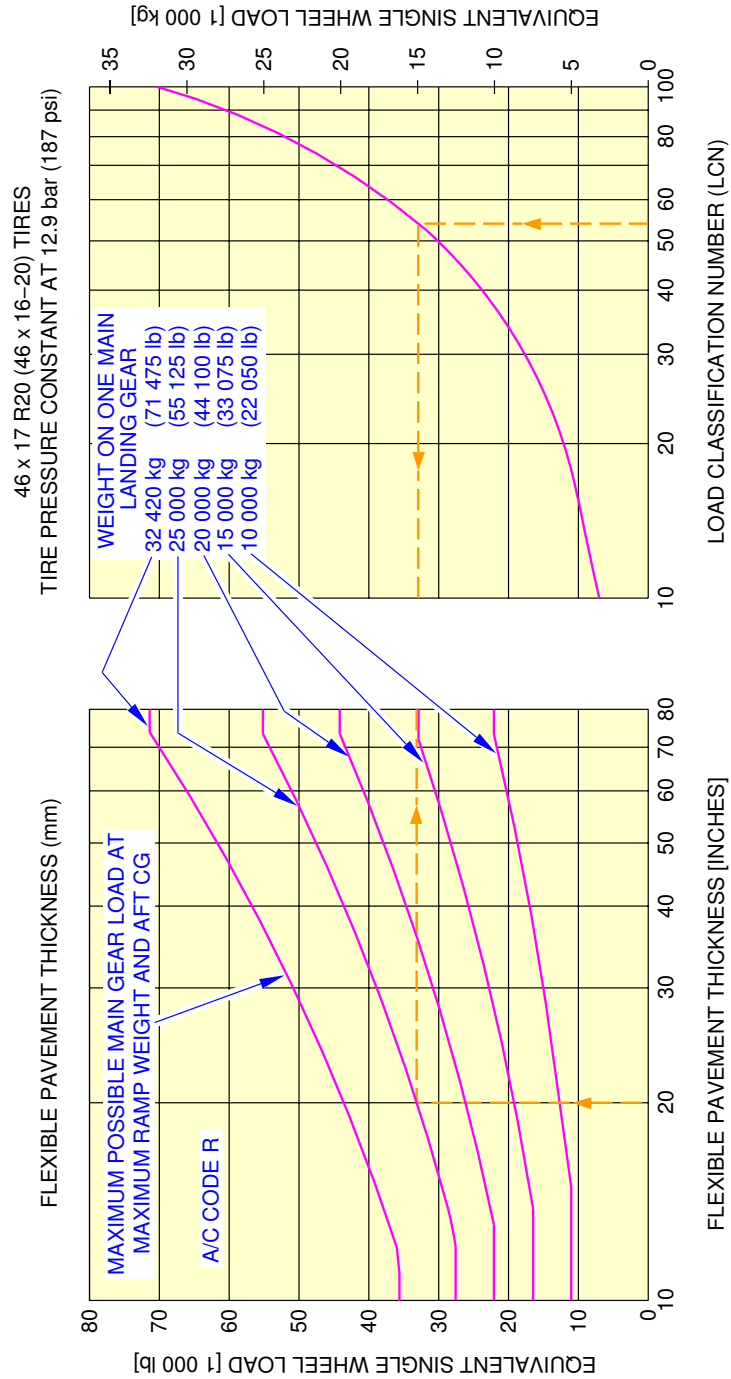


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0550101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 15

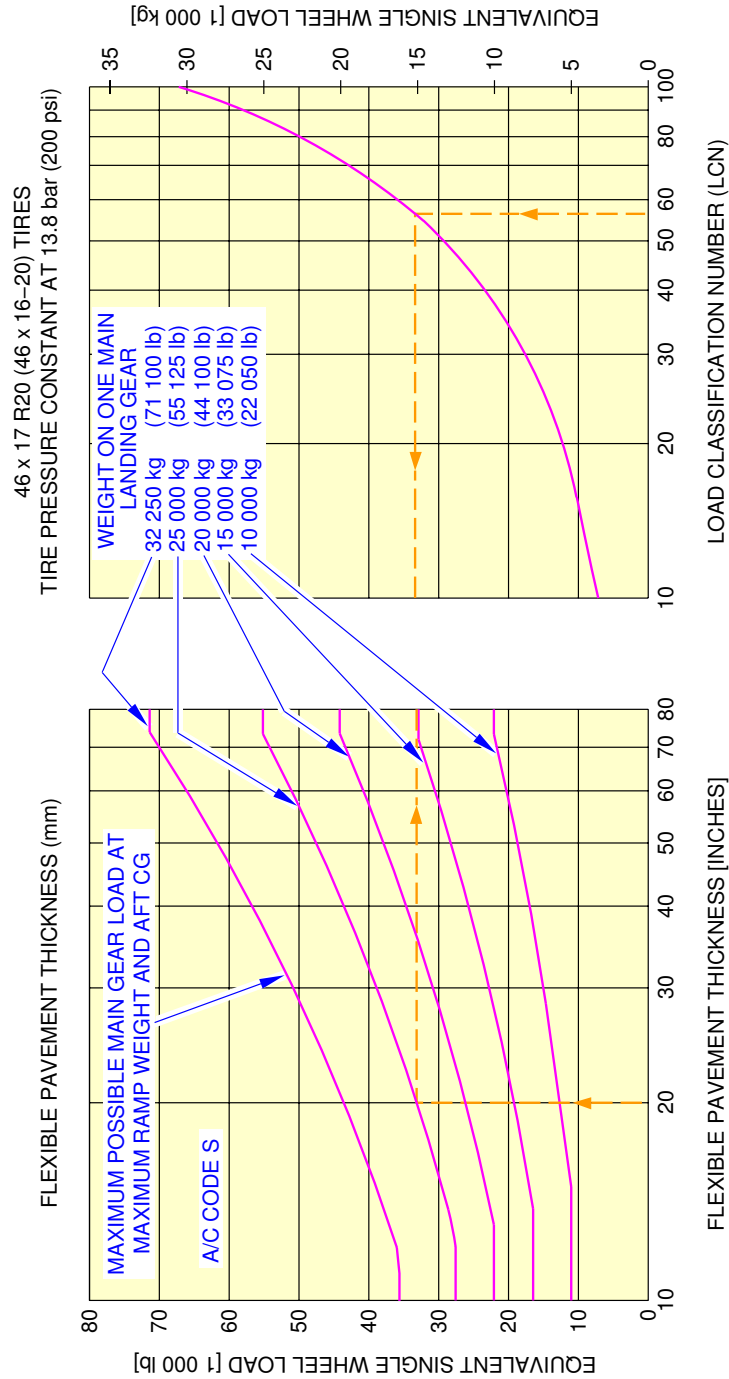
****ON A/C A319-100**



N_AC_070601_1_0560101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 16

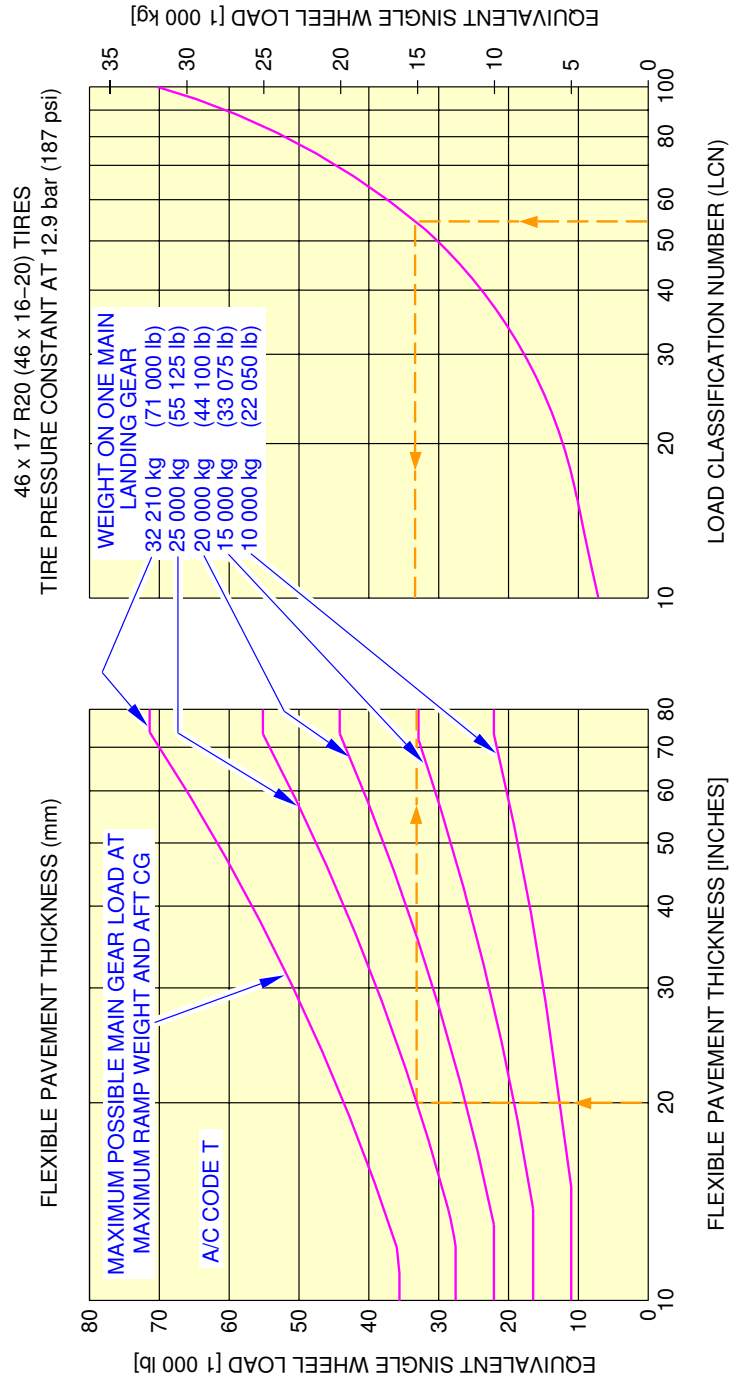
****ON A/C A319-100**



N_AC_070601_1_0570101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 17

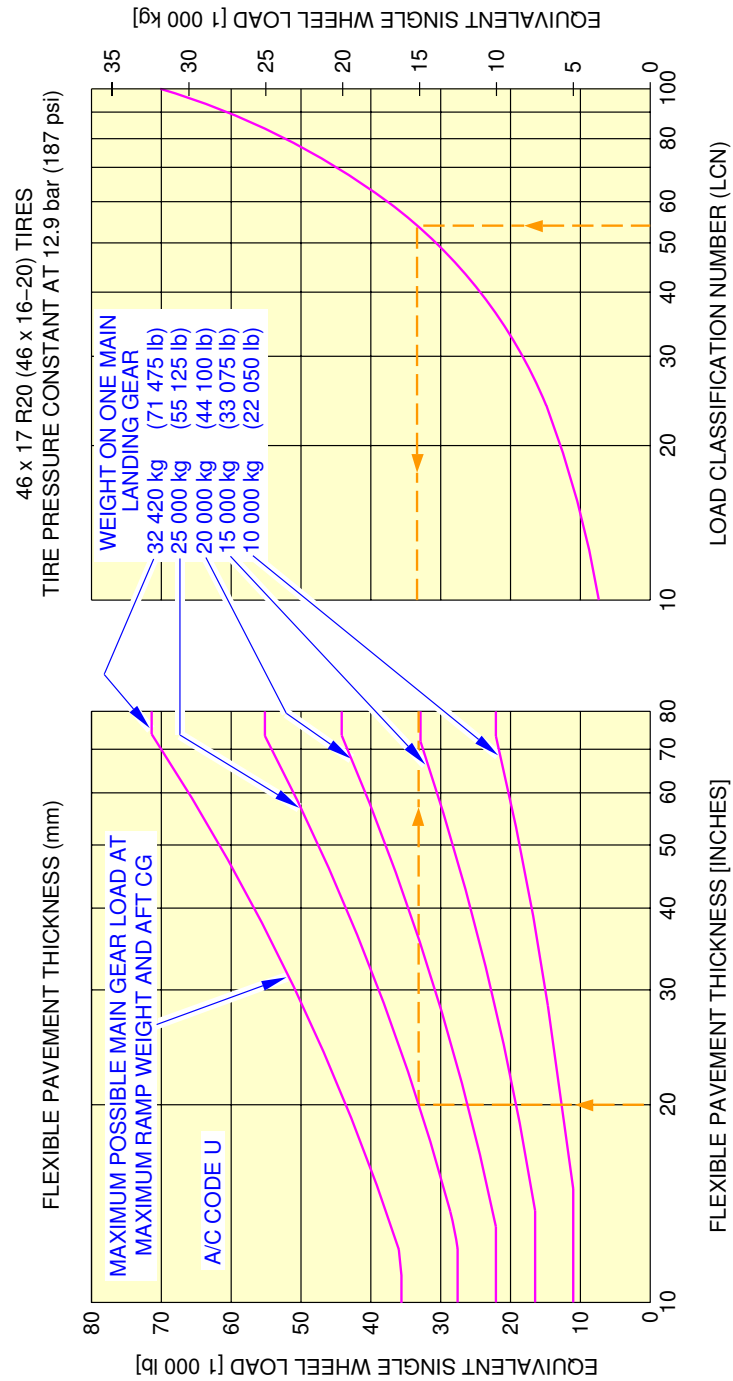
****ON A/C A319-100**



N_AC_070601_1_0580101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 18

****ON A/C A319-100**

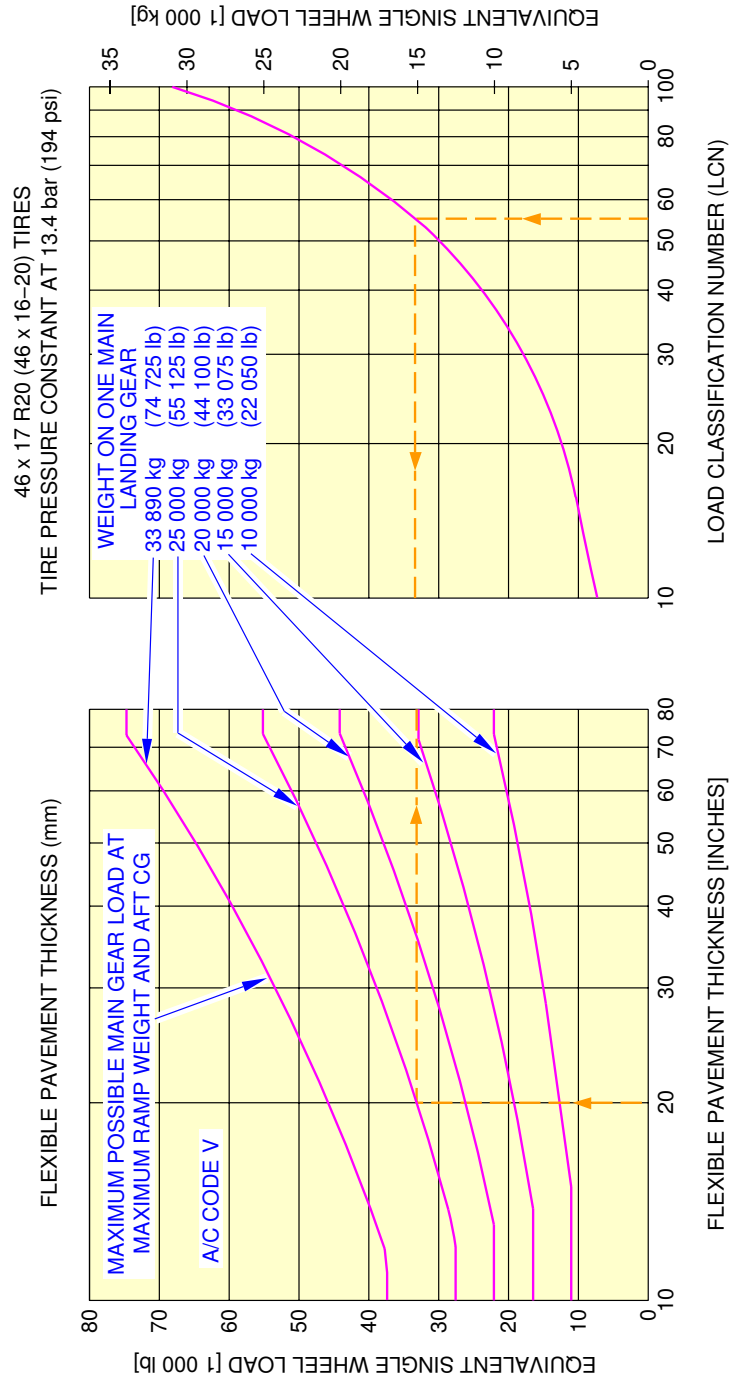


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070601_1_0590101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 19

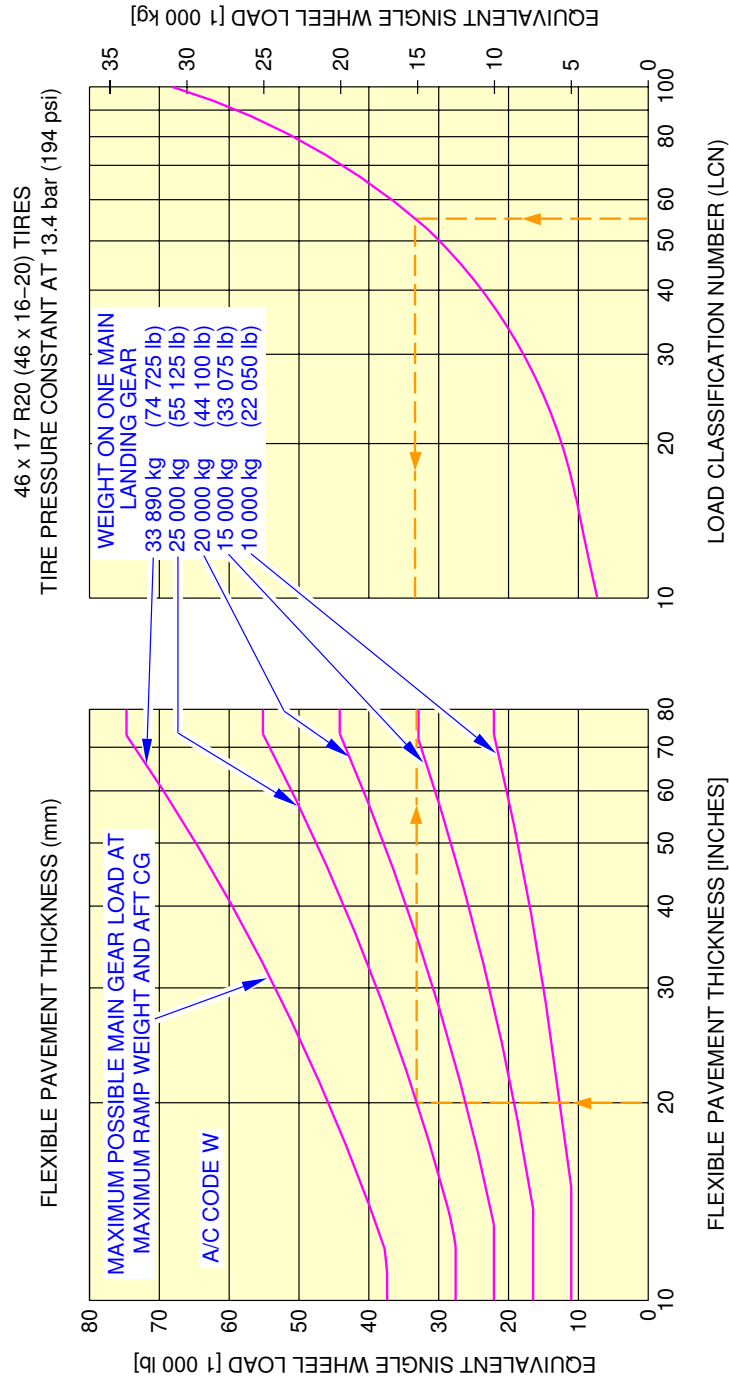
****ON A/C A319-100**



N_AC_070601_1_0600101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 20

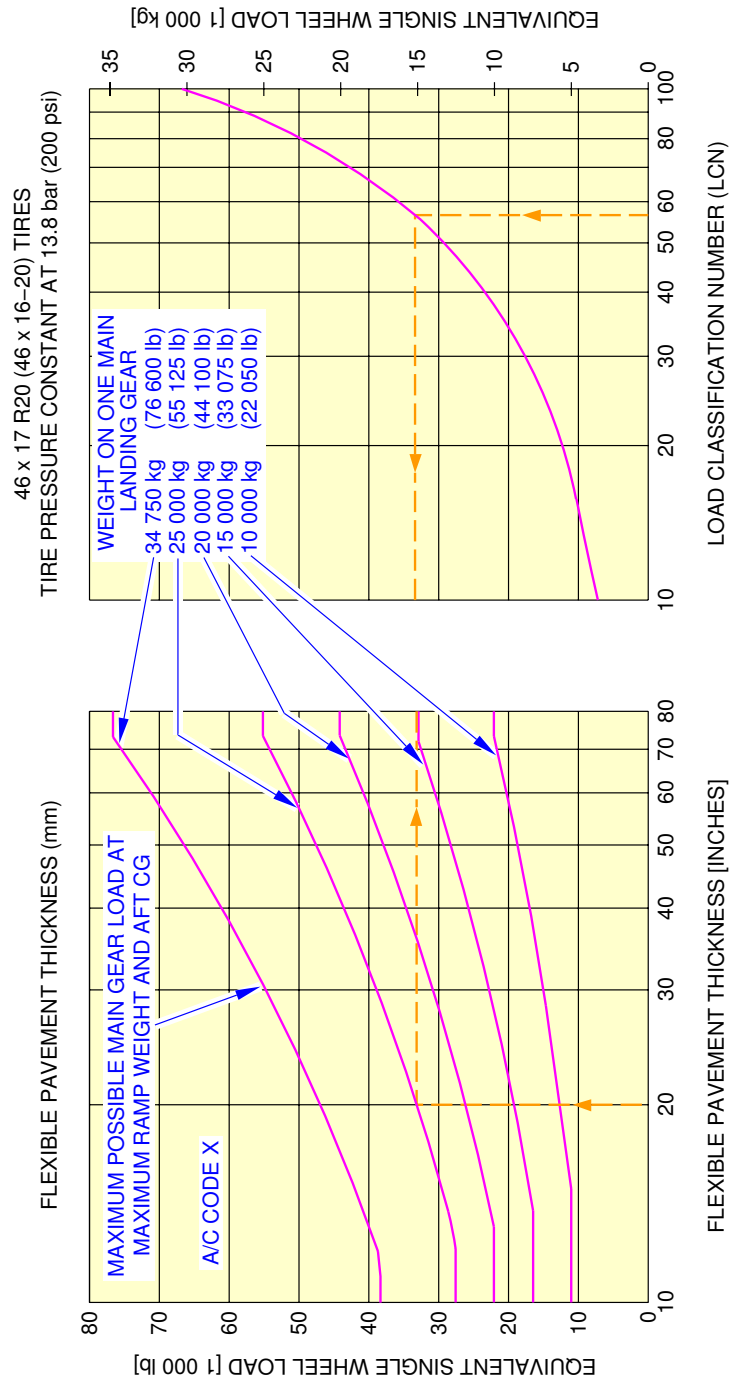
****ON A/C A319-100**



Flexible Pavement Requirements - LCN Conversion
FIGURE 21

N_AC_070601_1_0610101_01_00

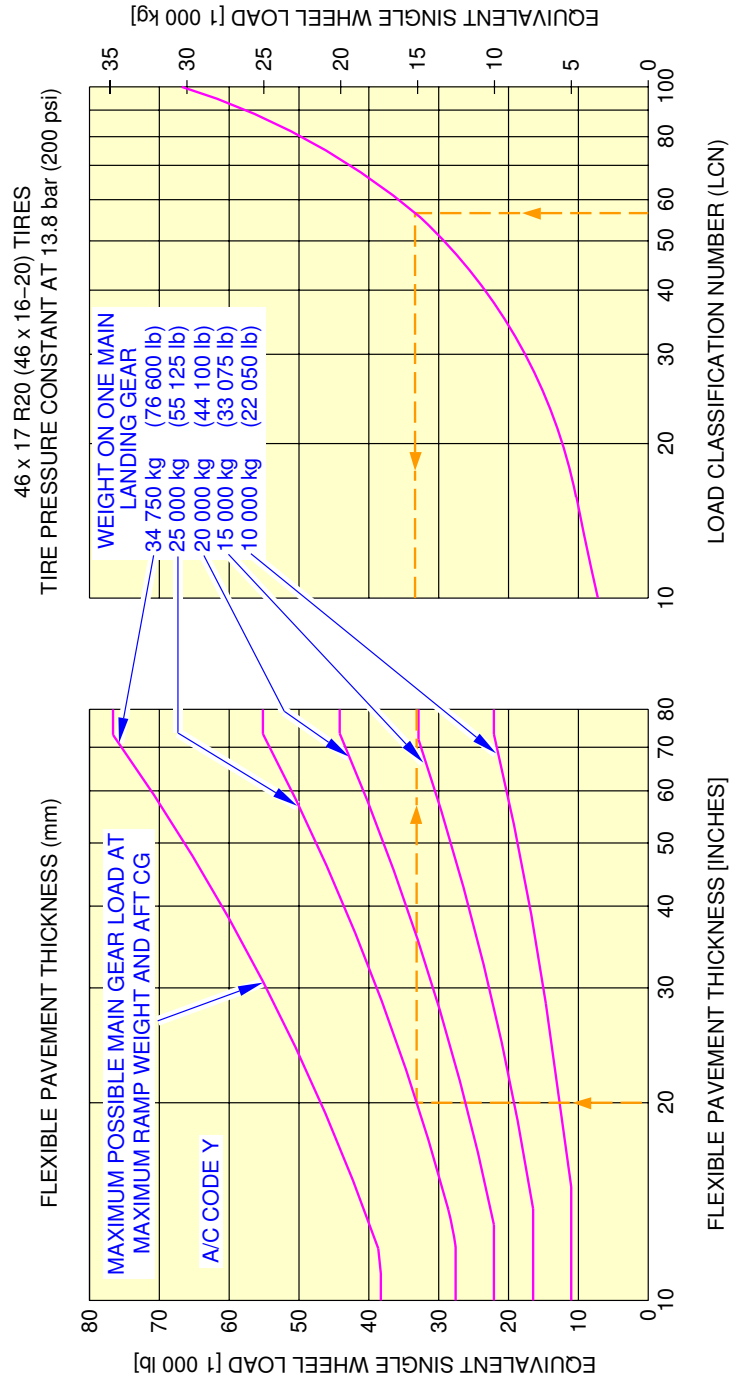
****ON A/C A319-100**



N_AC_070601_1_0620101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 22

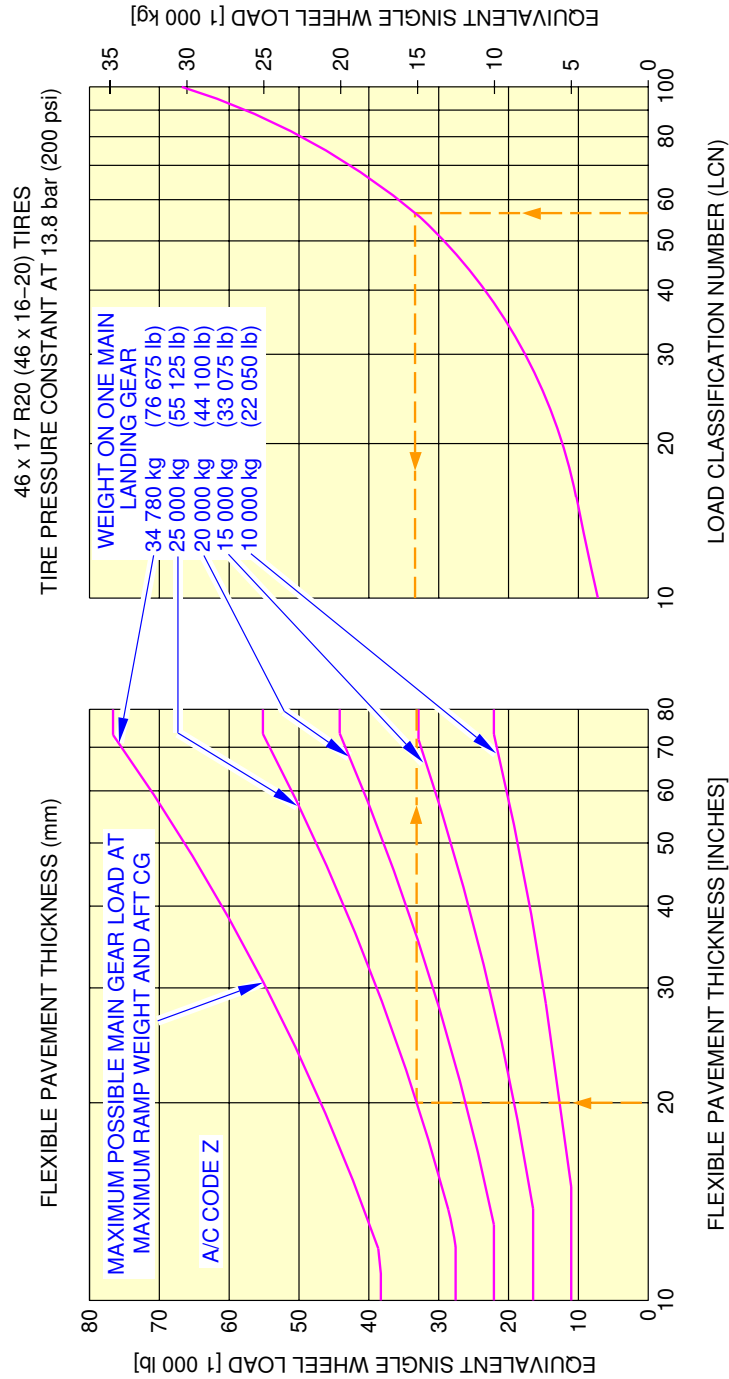
****ON A/C A319-100**



N_AC_070601_1_0630101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 23

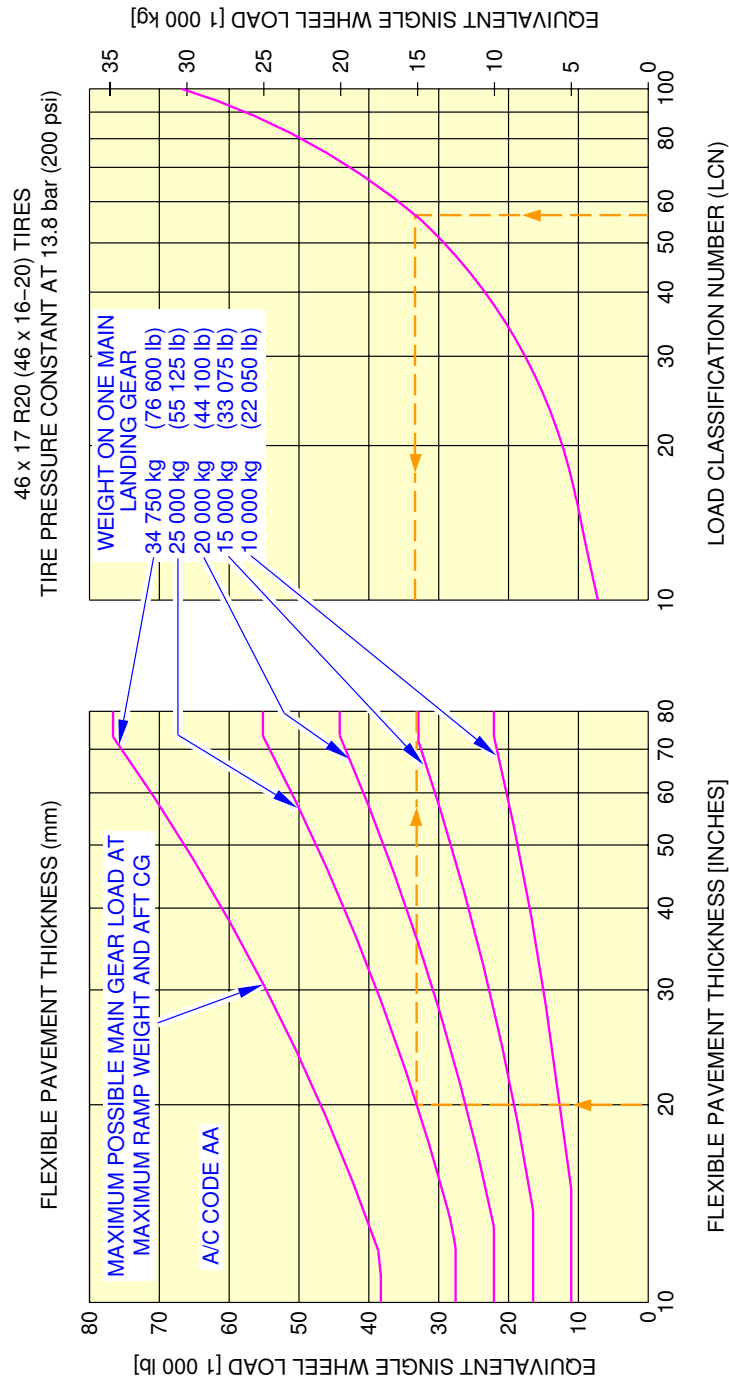
****ON A/C A319-100**



N_AC_070601_1_0640101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 24

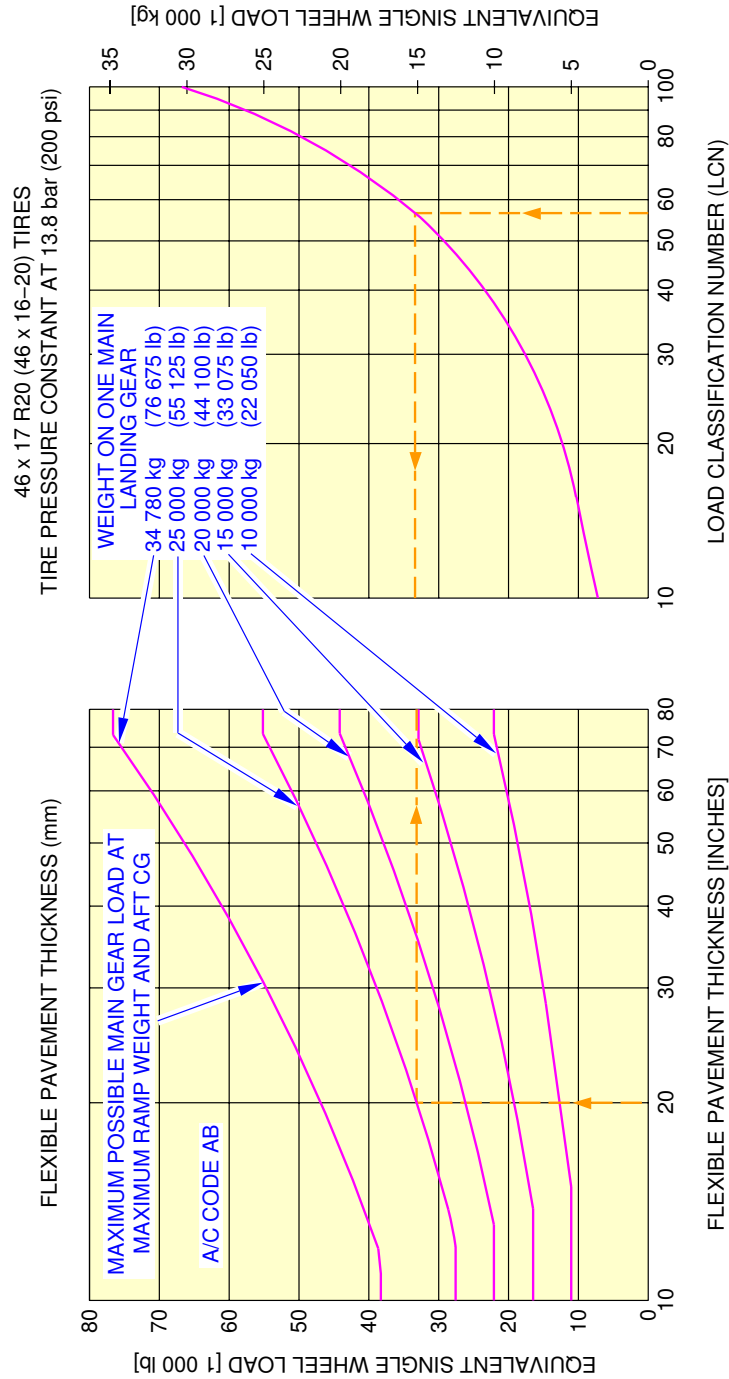
****ON A/C A319-100**



N_AC_070601_1_0650101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 25

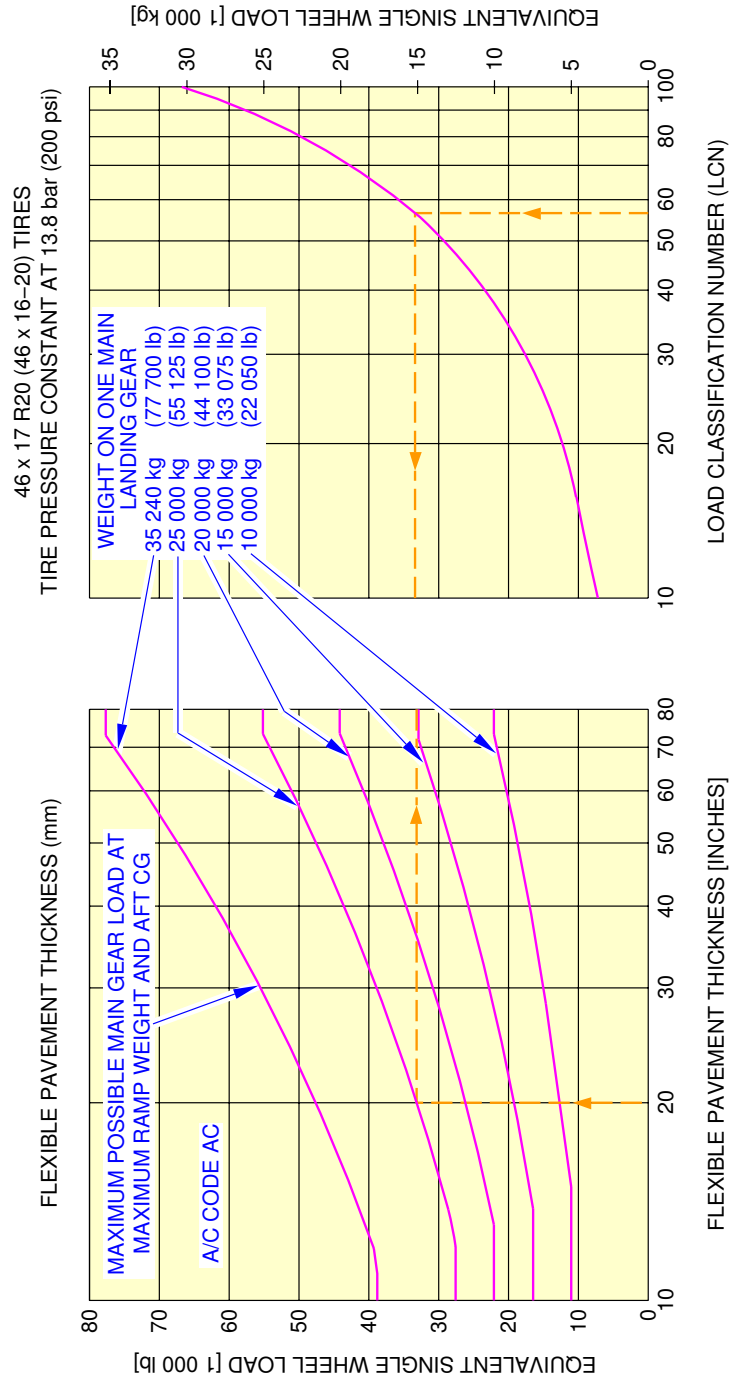
****ON A/C A319-100**



N_AC_070601_1_0660101_01_00

Flexible Pavement Requirements - LCN Conversion
FIGURE 26

****ON A/C A319-100**



N_AC_070601_1_0670101_01_00

Flexible Pavement Requirements - LCN Conversion
Flexible Pavement Requirements - LCN Conversion
FIGURE 27

7-7-0 Rigid Pavement Requirements - Portland Cement Association Design Method****ON A/C A319-100**Rigid Pavement Requirements - Portland Cement Association Design Method

1. General

In order to determine a particular Rigid Pavement Thickness, the Subgrade Modulus (k), the allowable working stress and the weight on one Main Landing Gear must be known.

In the example shown in Section 7-7-1 Rigid Pavement Requirements (PCA), A/C Code C for:

- a "k" value of 150 MN/m³ (550 lbf/in³)
- an allowable working stress of 31.6 kgf/cm² (450 lbf/in²)
- the load on one MLG of 20 000 kg (44 100 lb).

For these conditions, the Rigid Pavement Thickness is 18.9 cm (7.4 in).

7-7-1 Rigid Pavement Requirements - Portland Cement Association Design Method

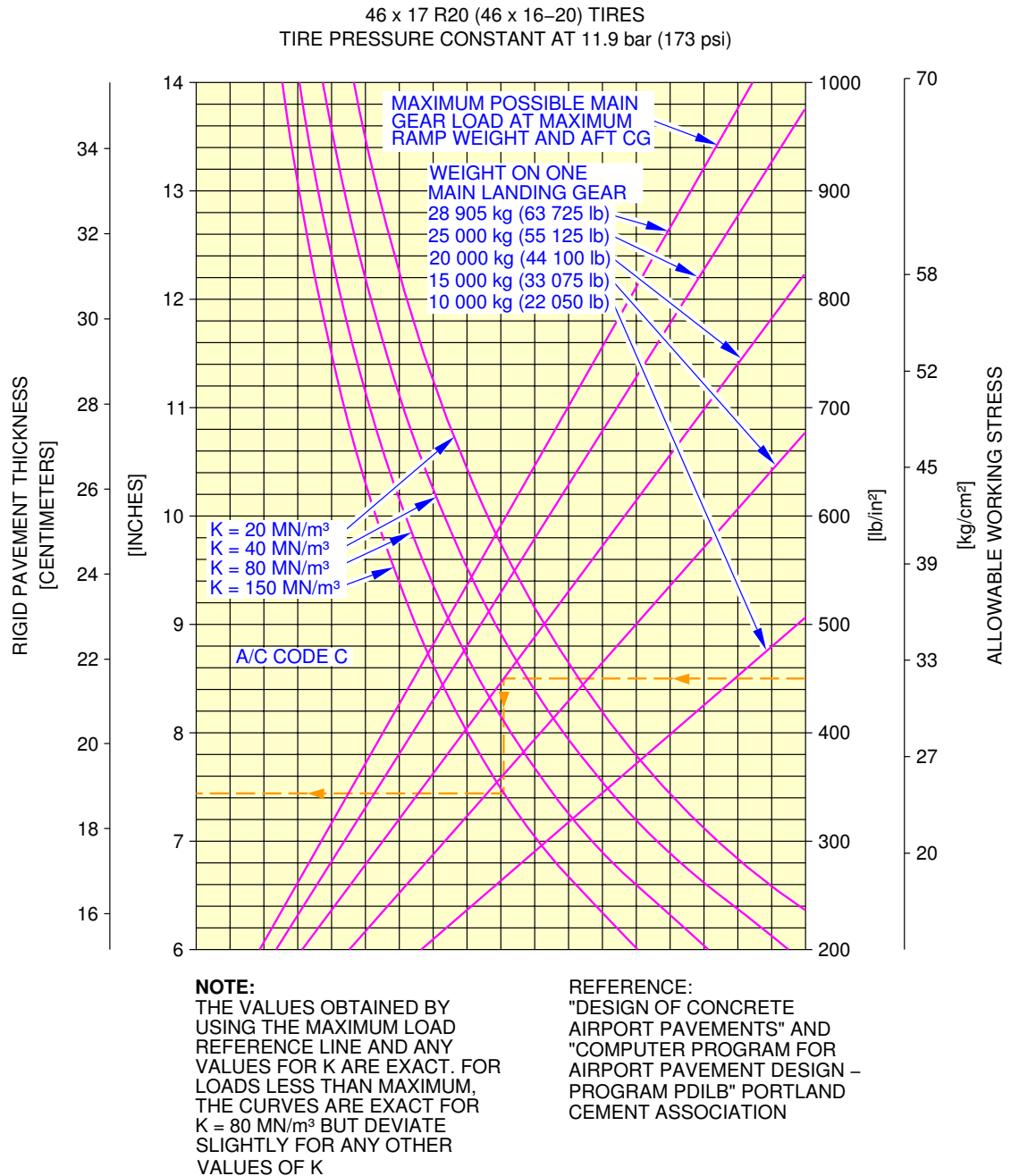
****ON A/C A319-100**

Rigid Pavement Requirements - Portland Cement Association Design Method

1. This section gives Rigid Pavement Requirements.

I NOTE : For A/C Code definition, refer to chapter 7-1-0.

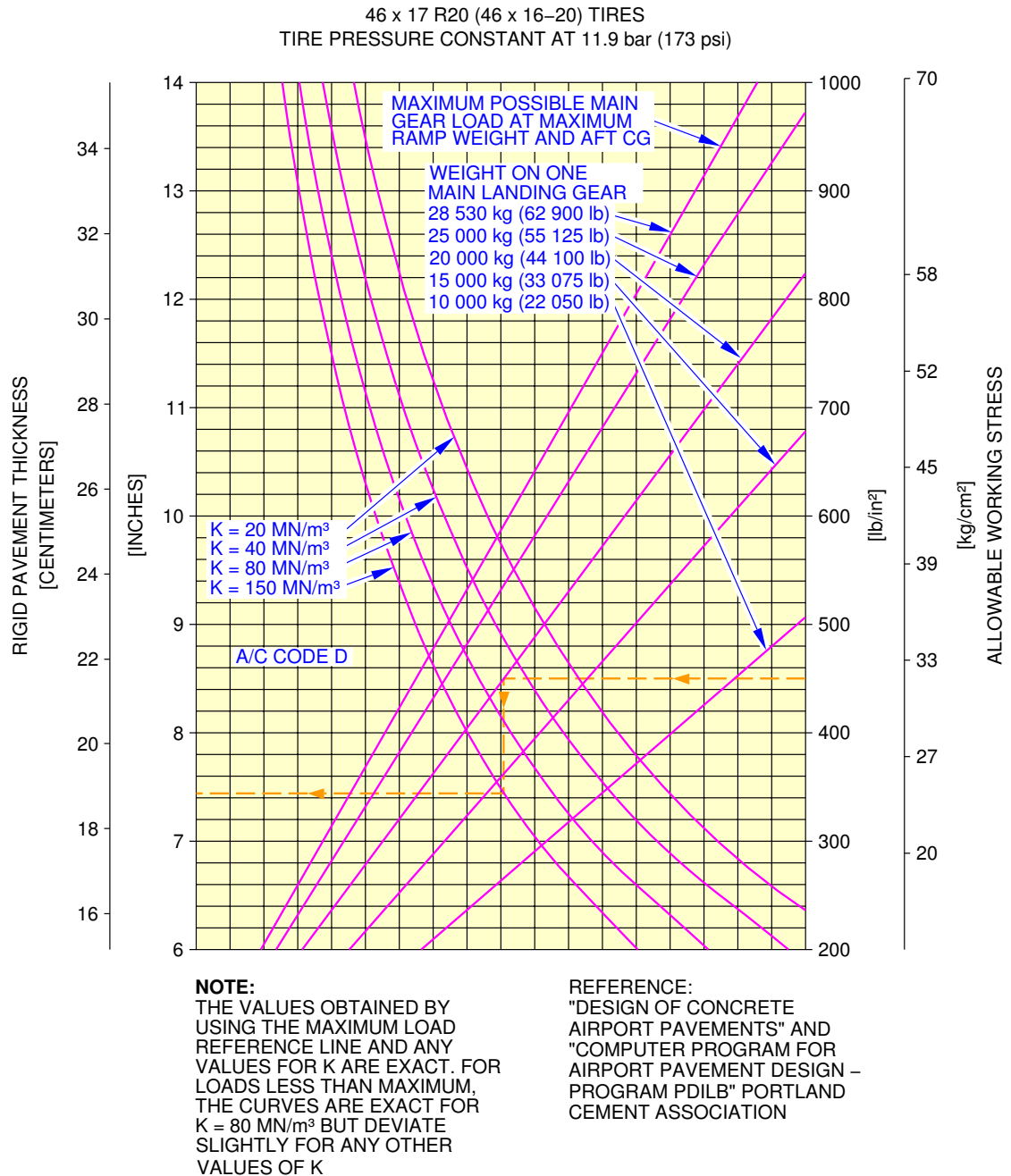
****ON A/C A319-100**



N_AC_070701_1_0380101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 1

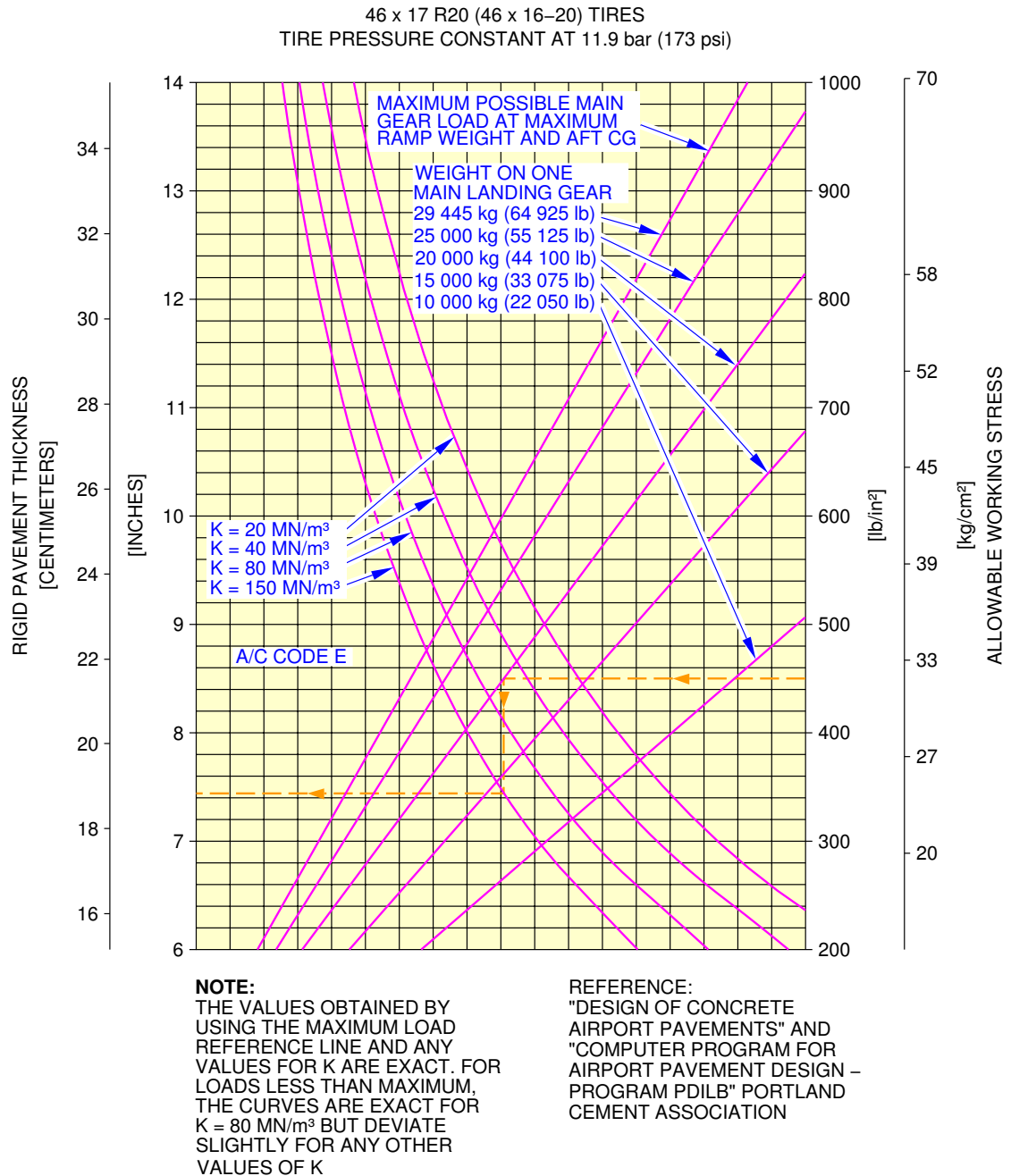
****ON A/C A319-100**



N_AC_070701_1_0390101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 2

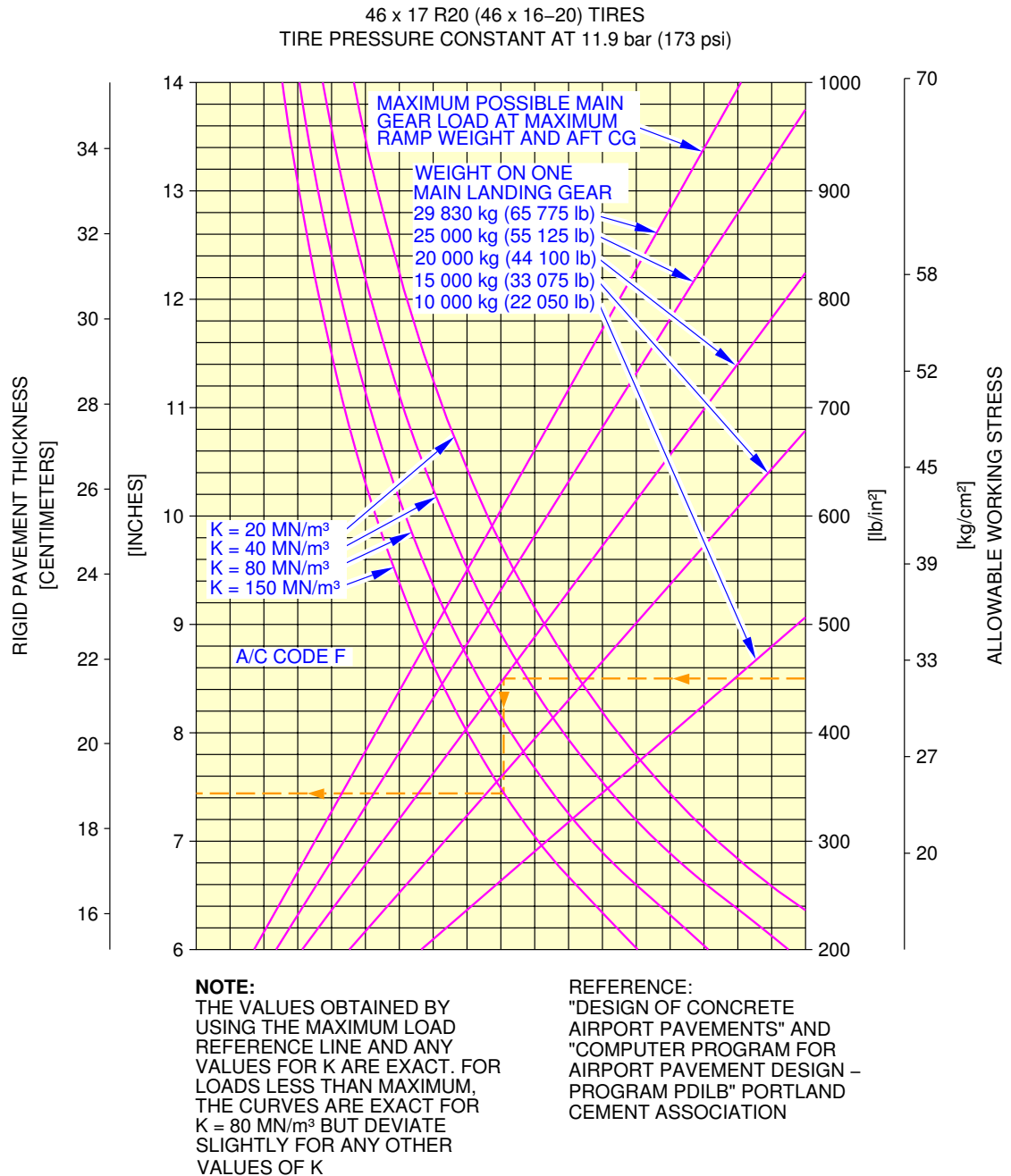
****ON A/C A319-100**



N_AC_070701_1_0400101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 3

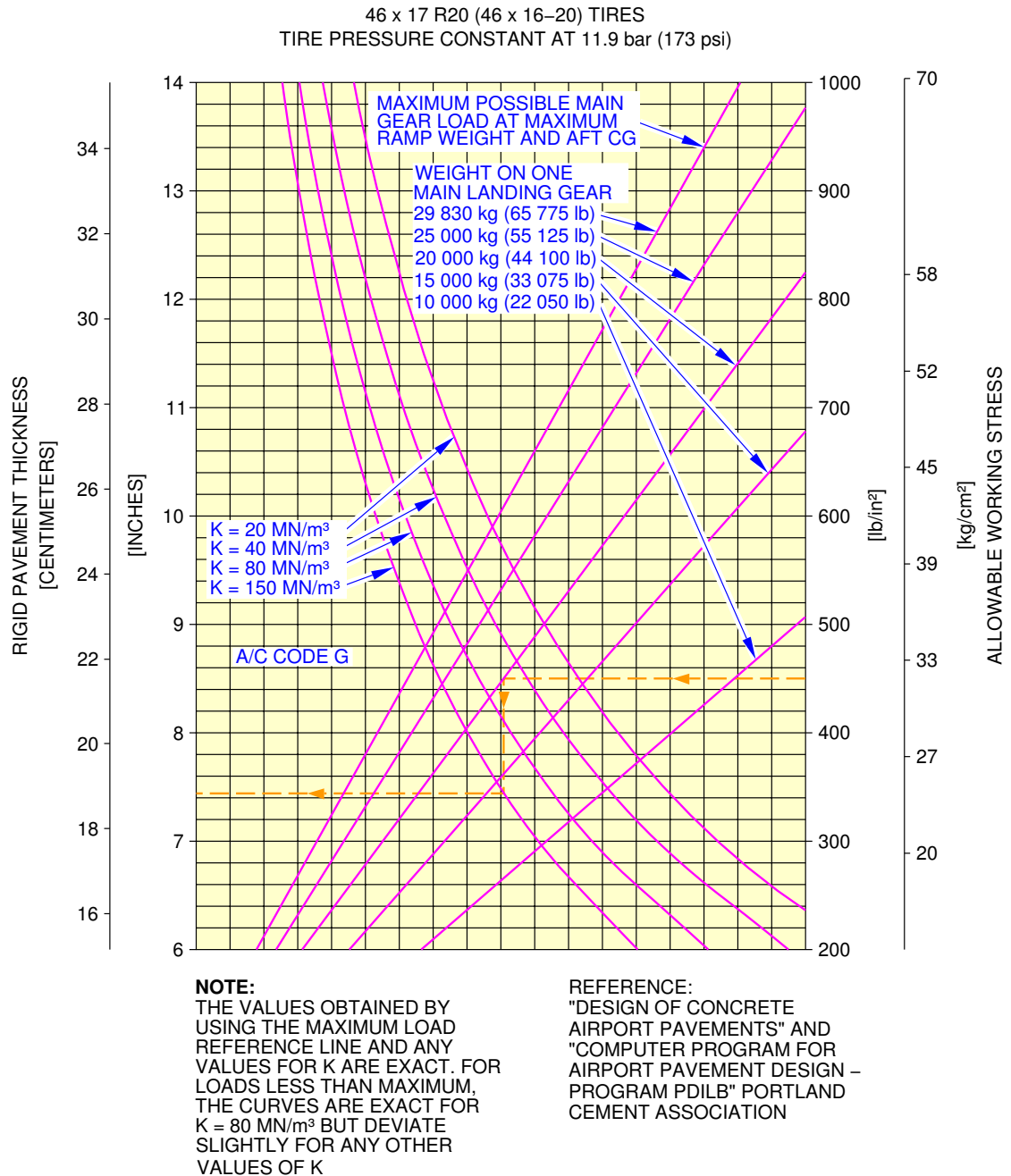
****ON A/C A319-100**



N_AC_070701_1_0410101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 4

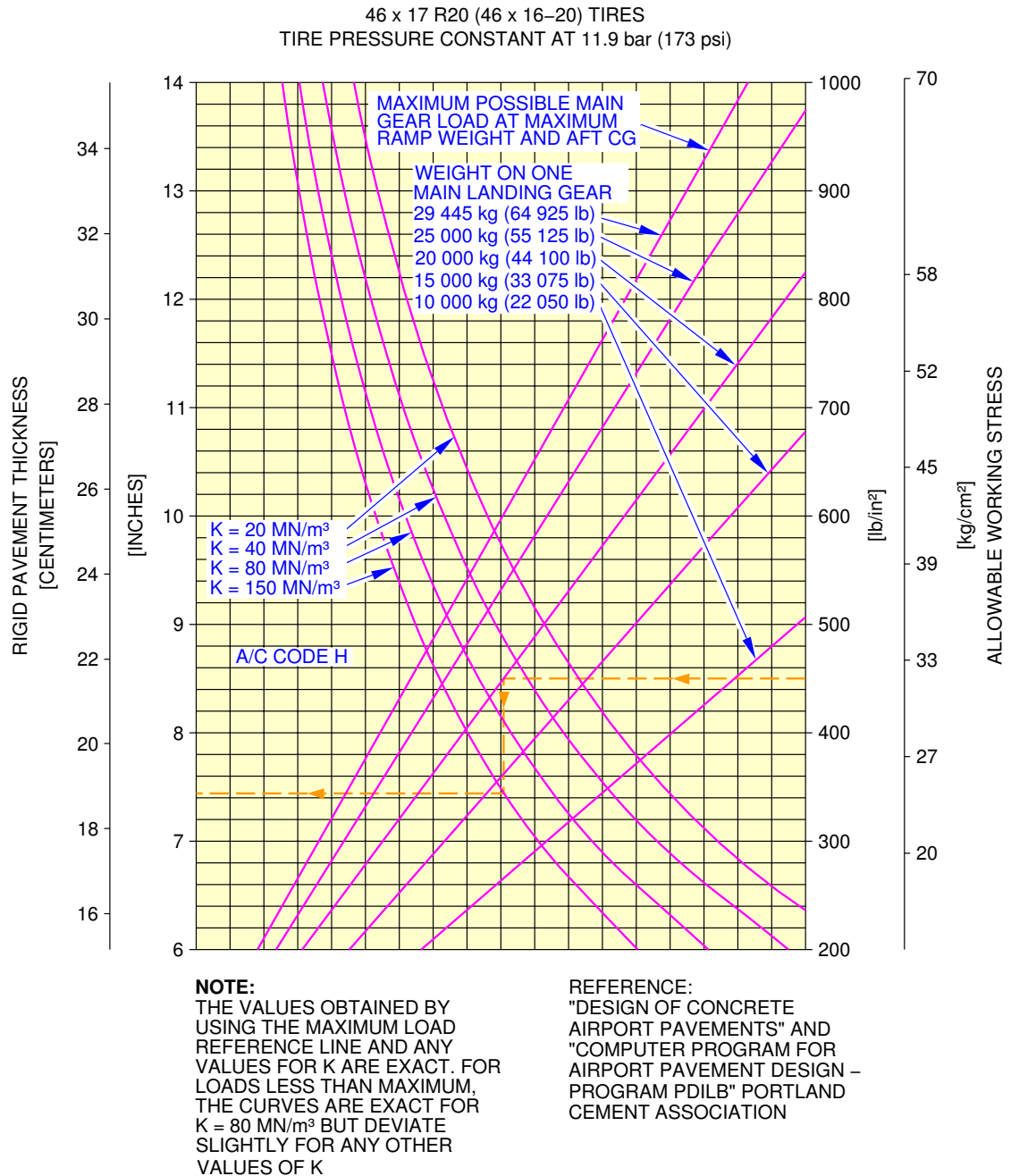
****ON A/C A319-100**



N_AC_070701_1_0420101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 5

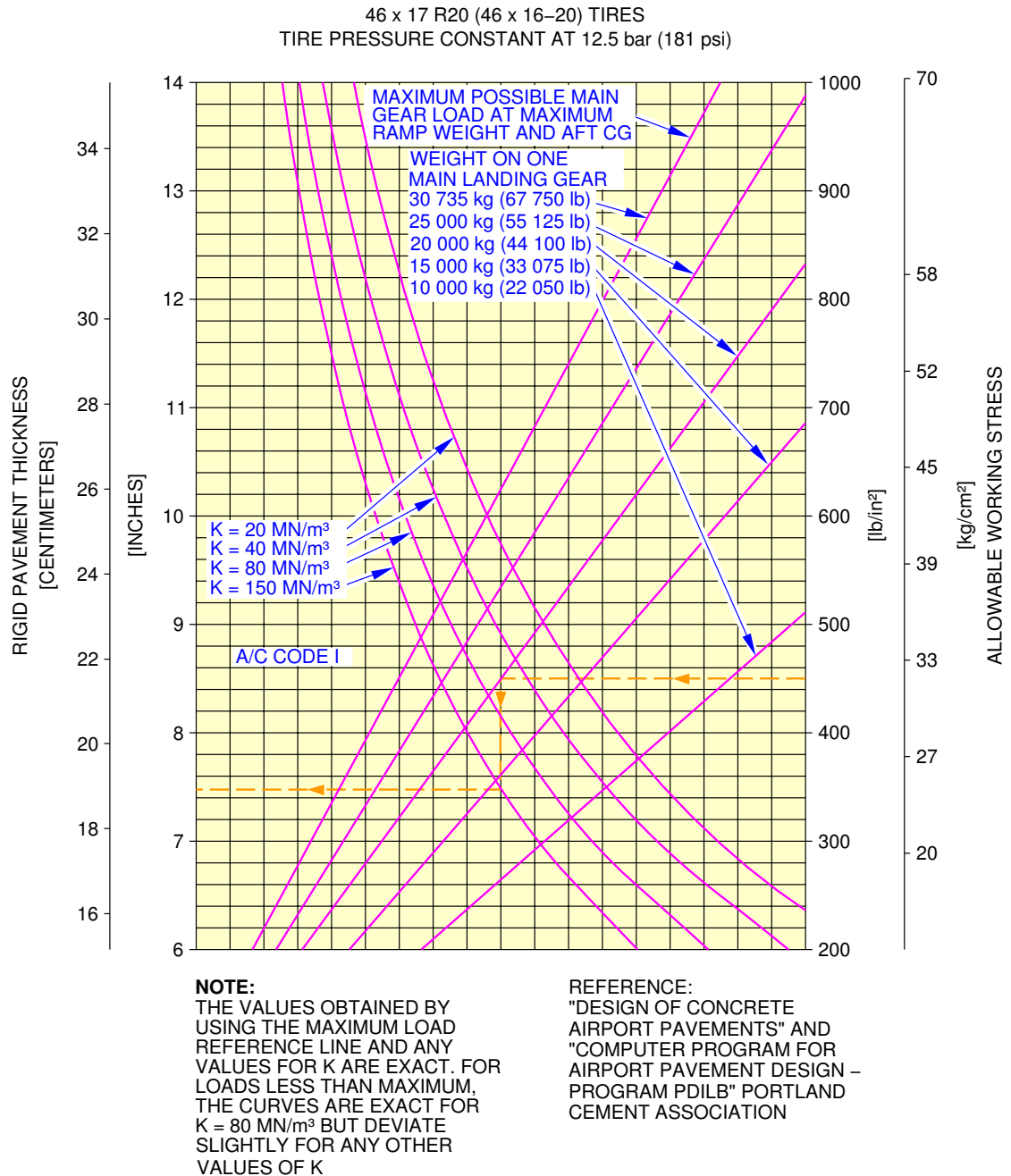
****ON A/C A319-100**



N_AC_070701_1_0430101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 6

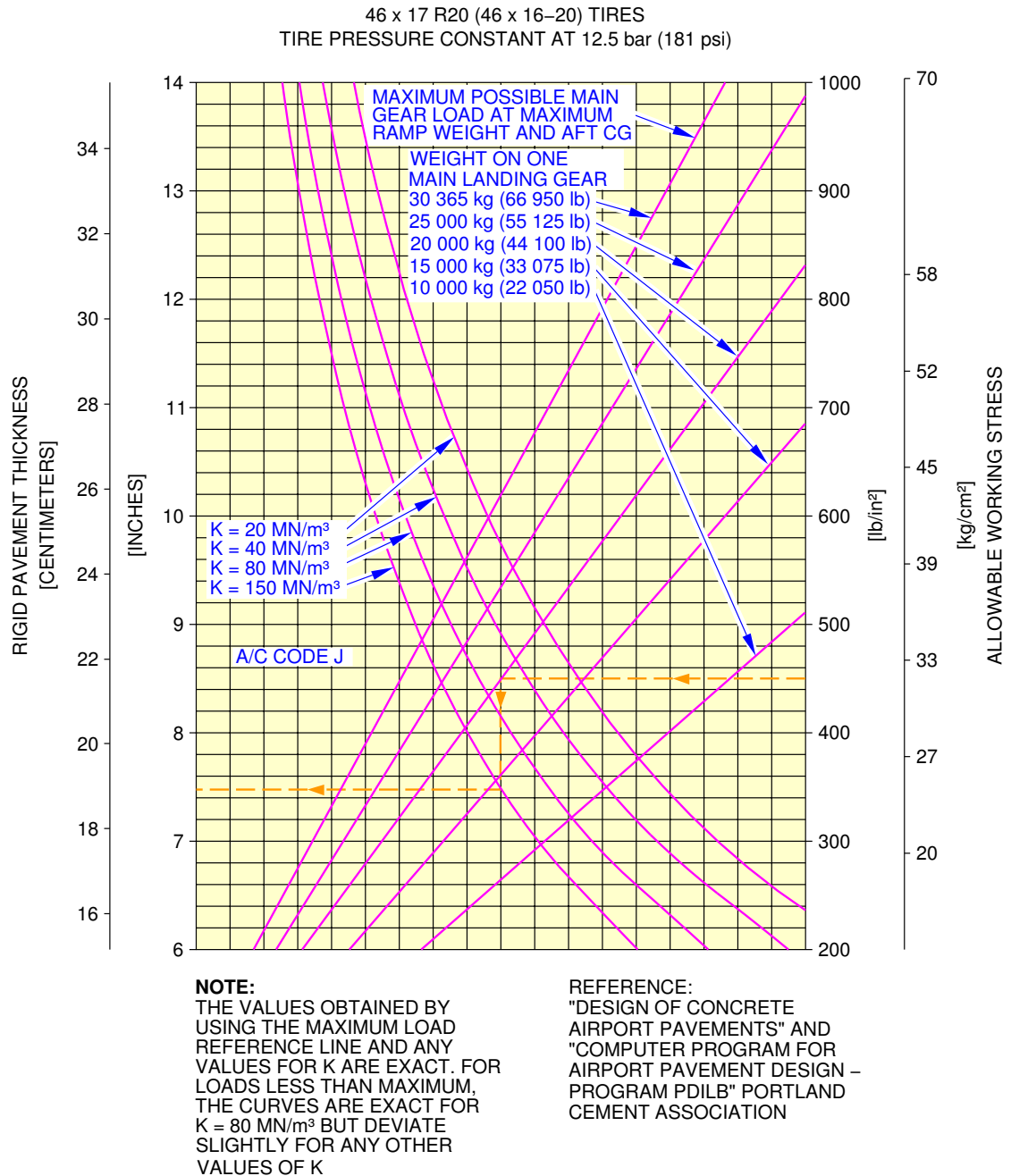
****ON A/C A319-100**



N_AC_070701_1_0440101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 7

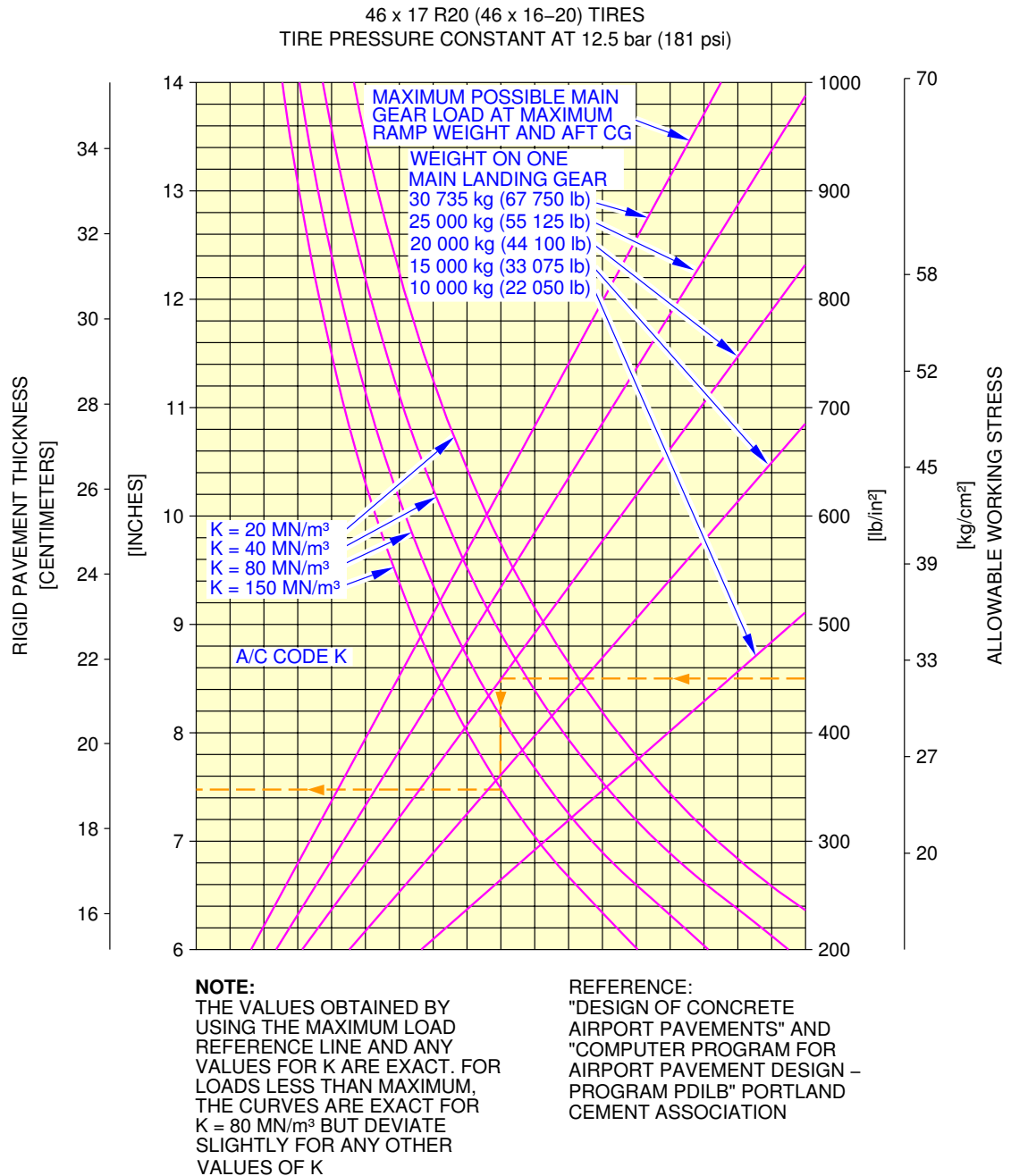
****ON A/C A319-100**



N_AC_070701_1_0450101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 8

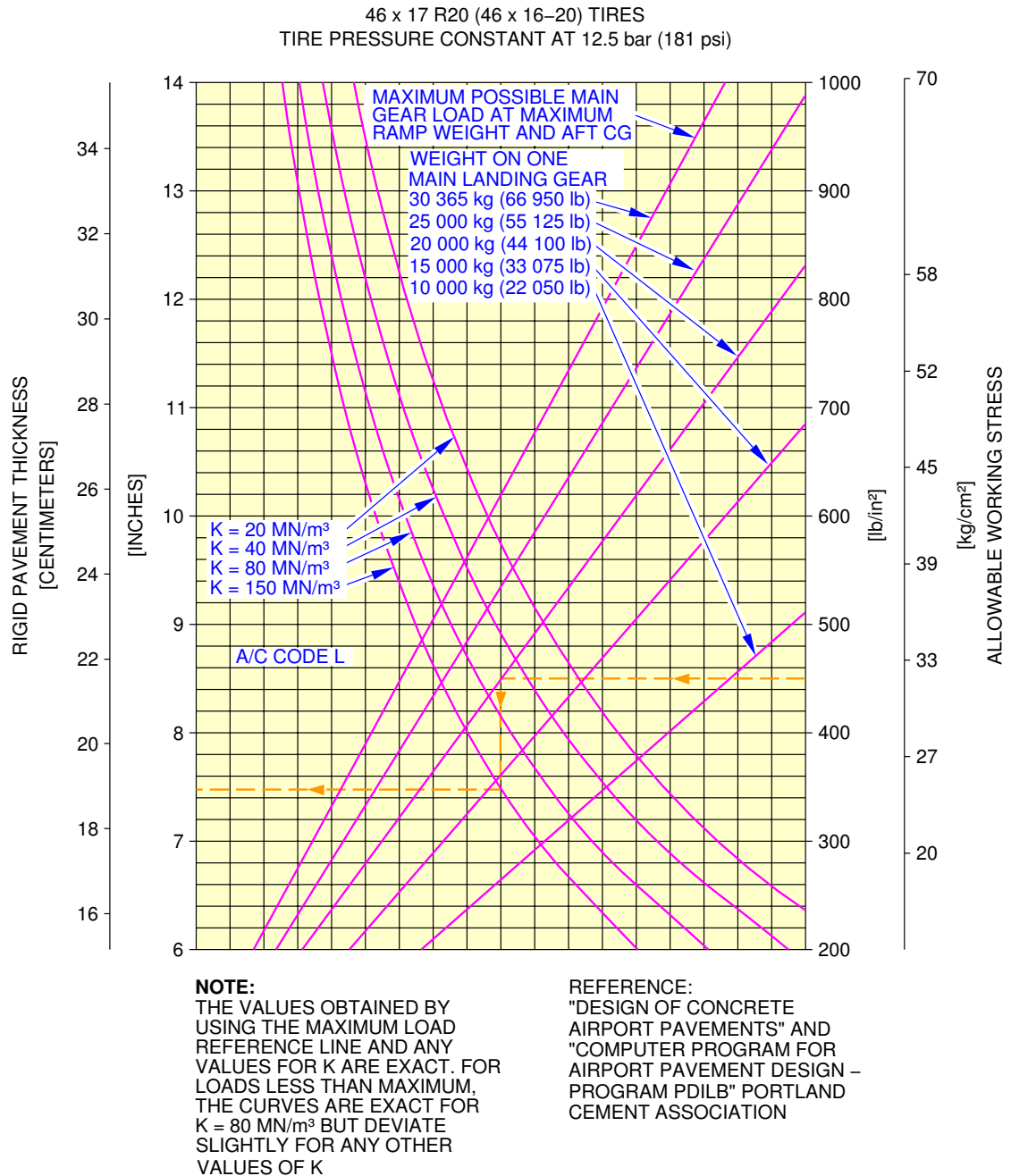
****ON A/C A319-100**



N_AC_070701_1_0460101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 9

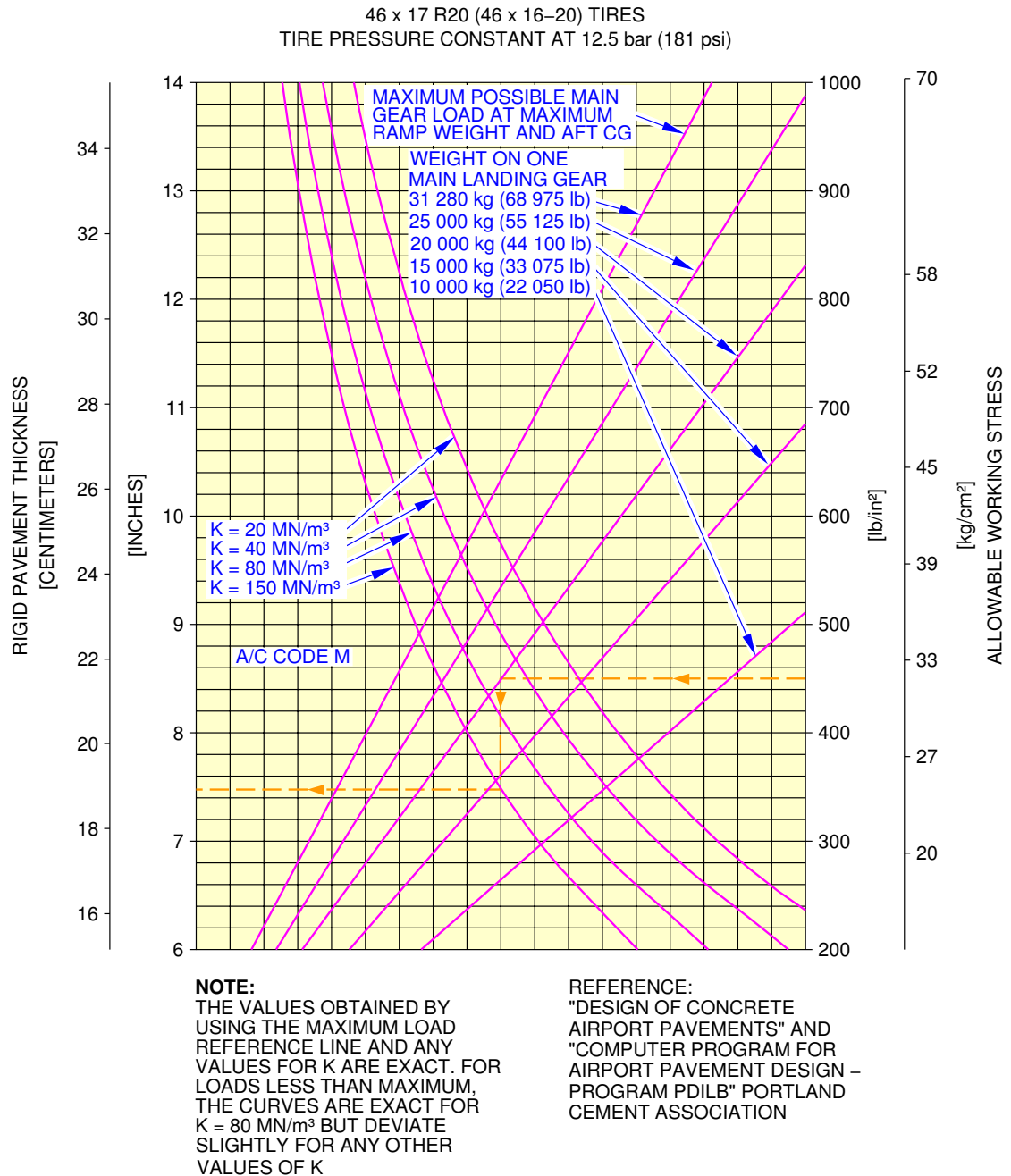
****ON A/C A319-100**



N_AC_070701_1_0470101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 10

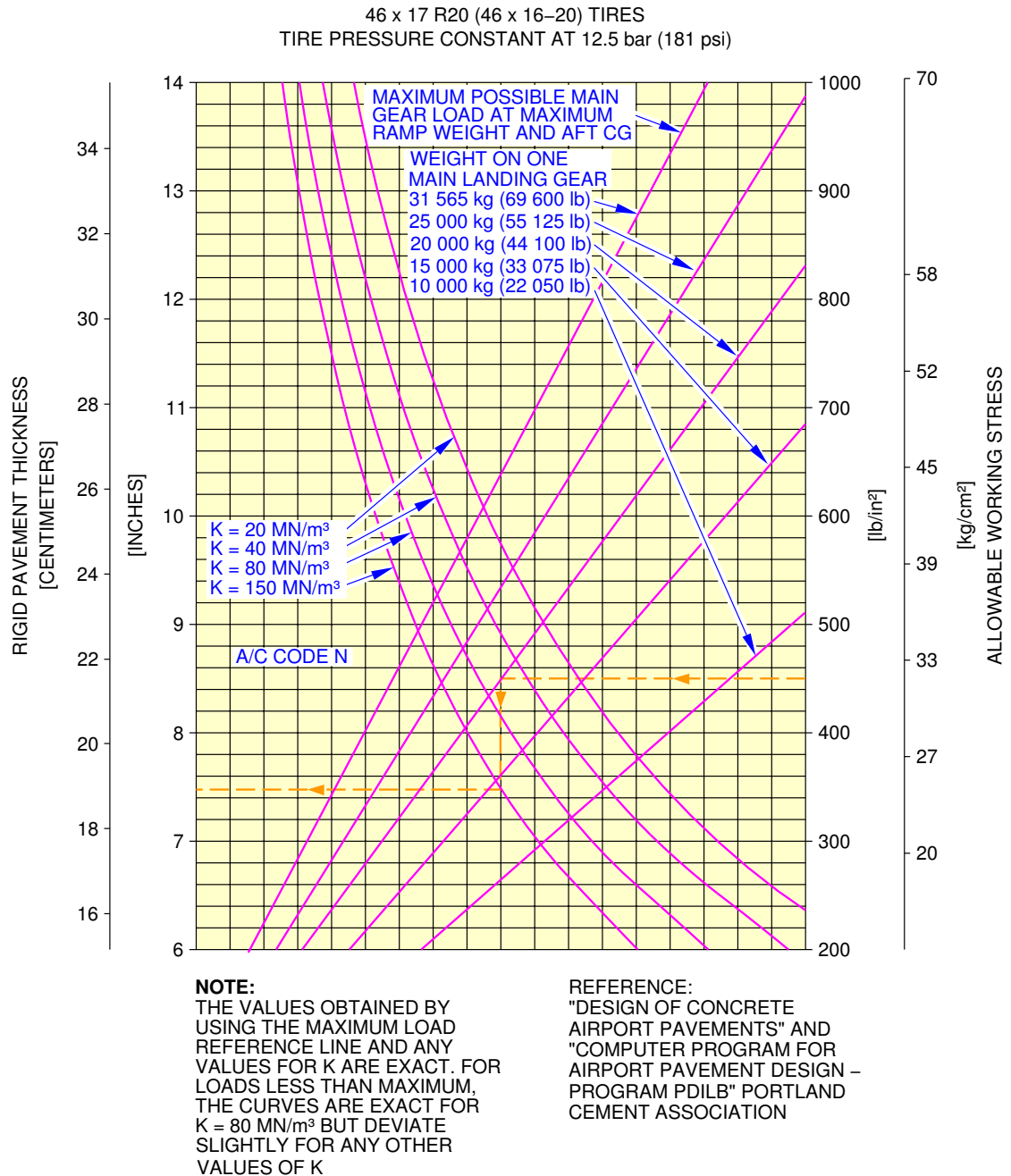
****ON A/C A319-100**



N_AC_070701_1_0480101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 11

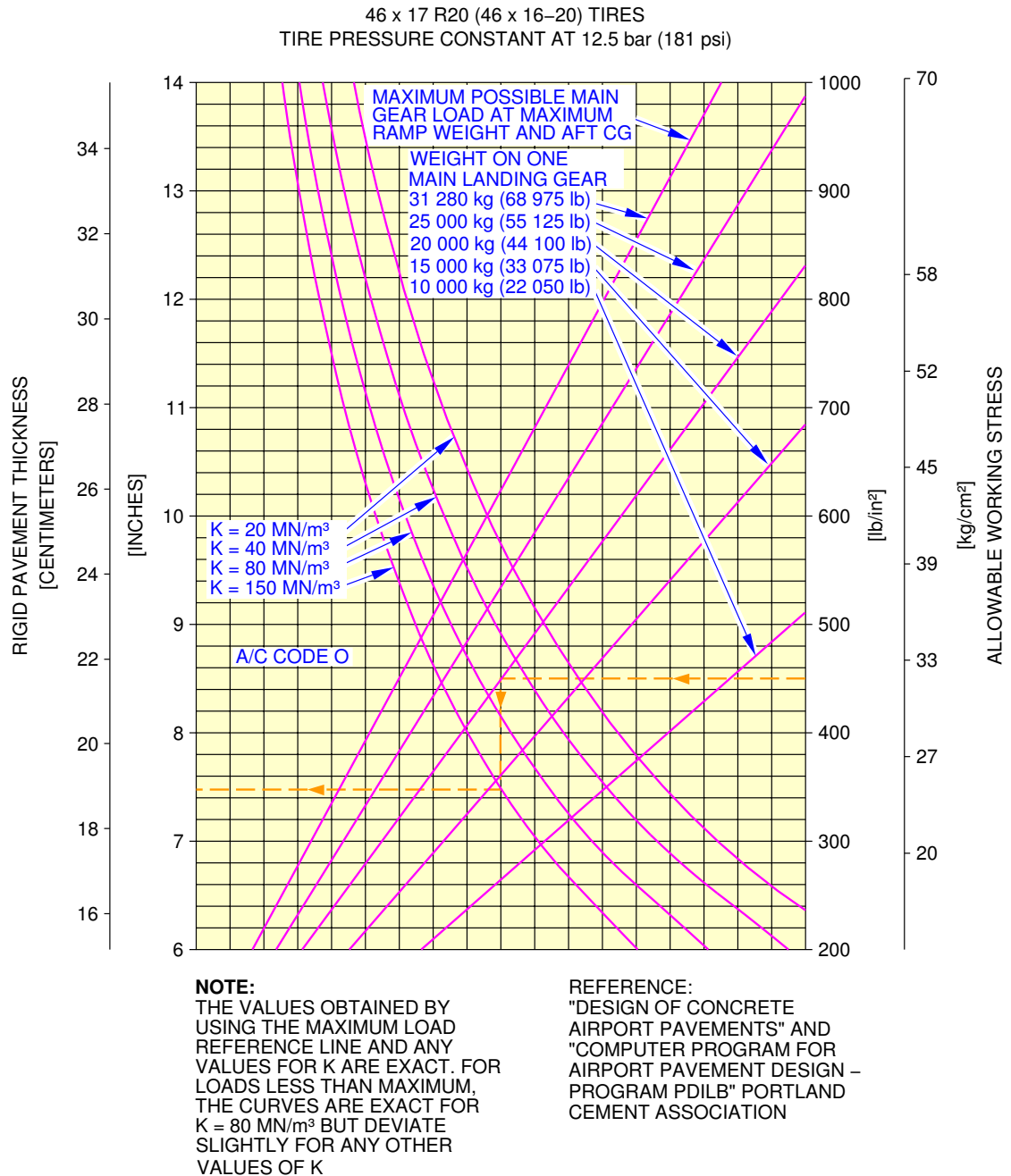
****ON A/C A319-100**



N_AC_070701_1_0490101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 12

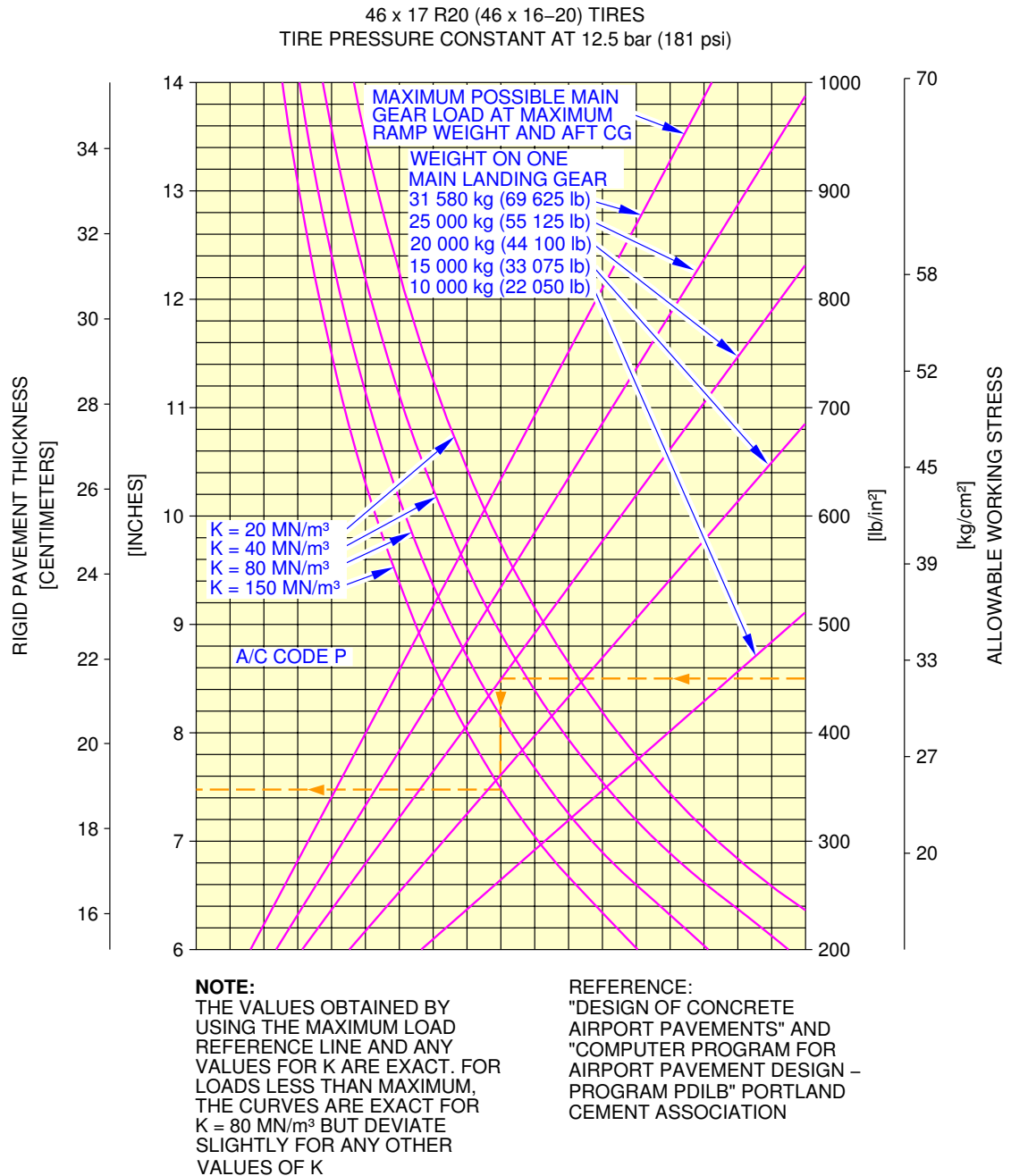
****ON A/C A319-100**



N_AC_070701_1_0500101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 13

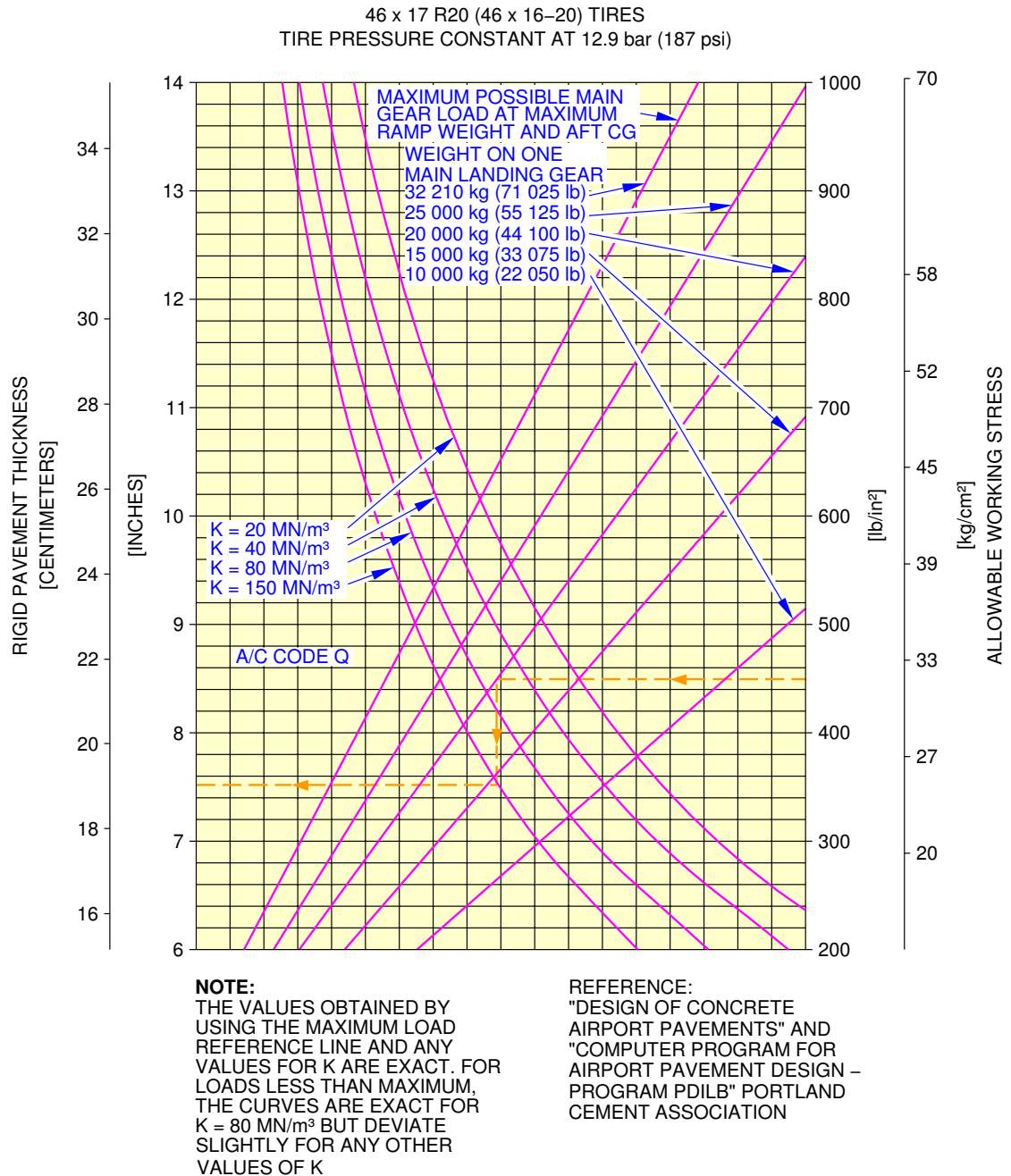
****ON A/C A319-100**



N_AC_070701_1_0510101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 14

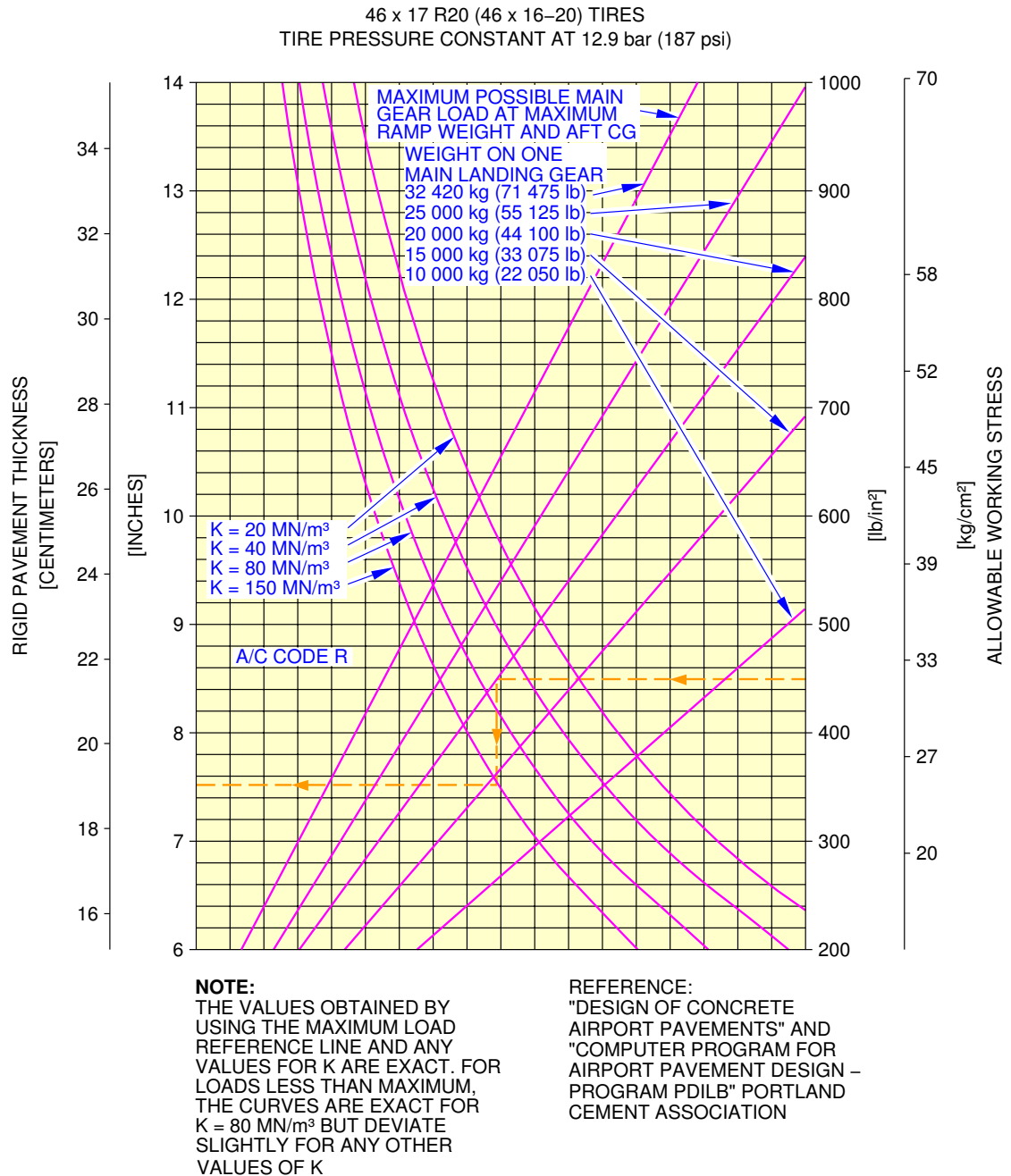
****ON A/C A319-100**



N_AC_070701_1_0520101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 15

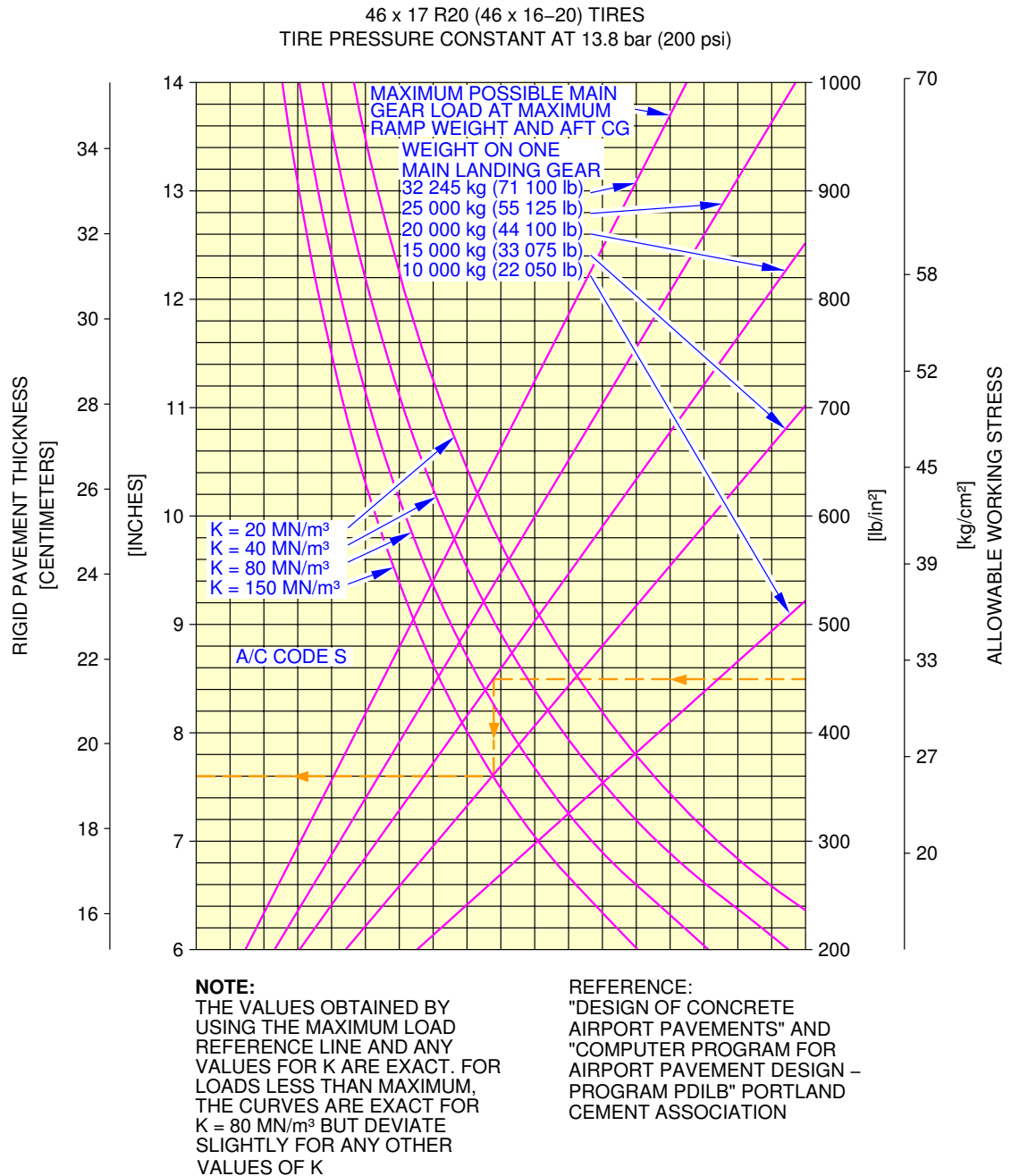
****ON A/C A319-100**



N_AC_070701_1_0530101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 16

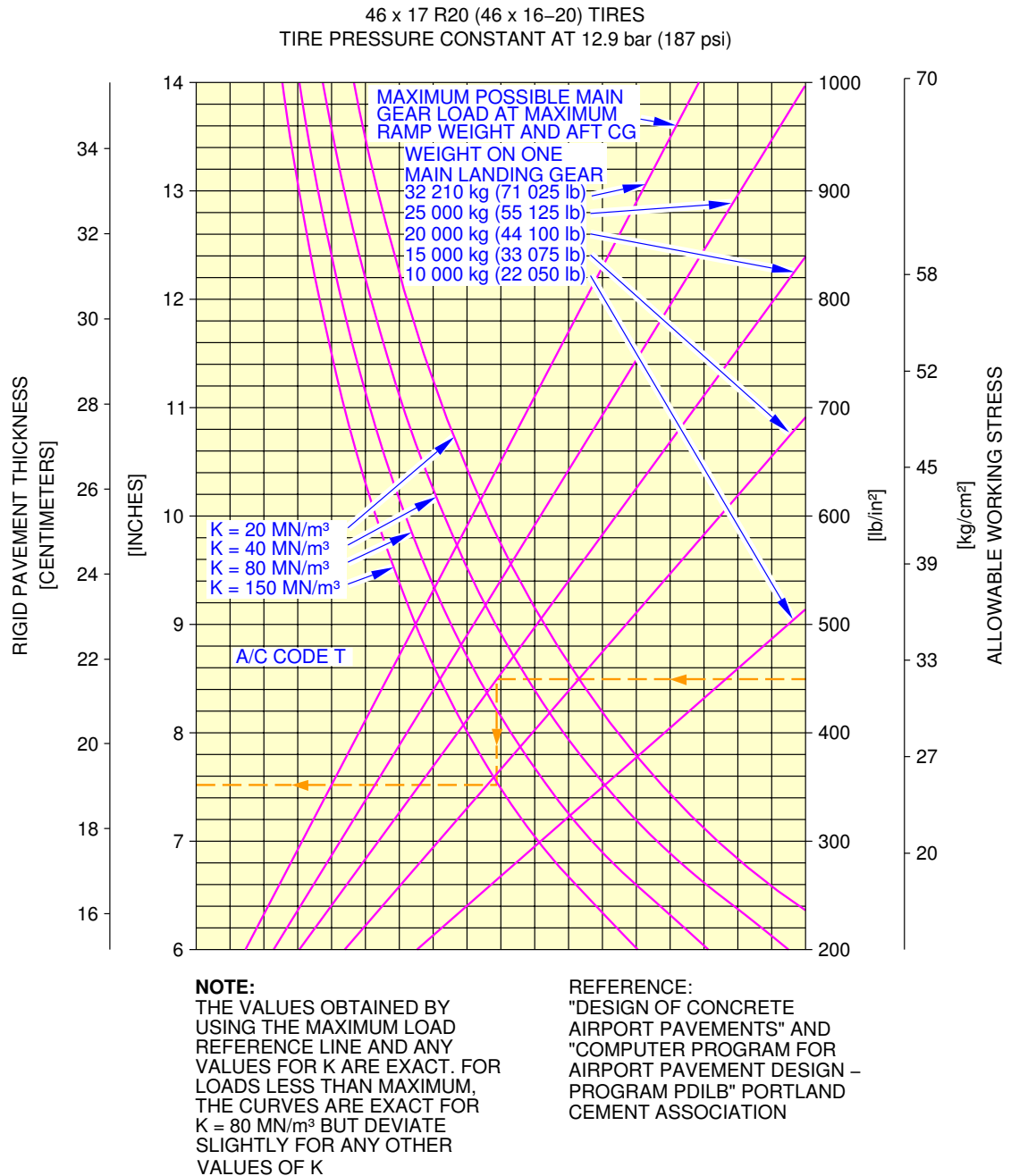
****ON A/C A319-100**



N_AC_070701_1_0540101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 17

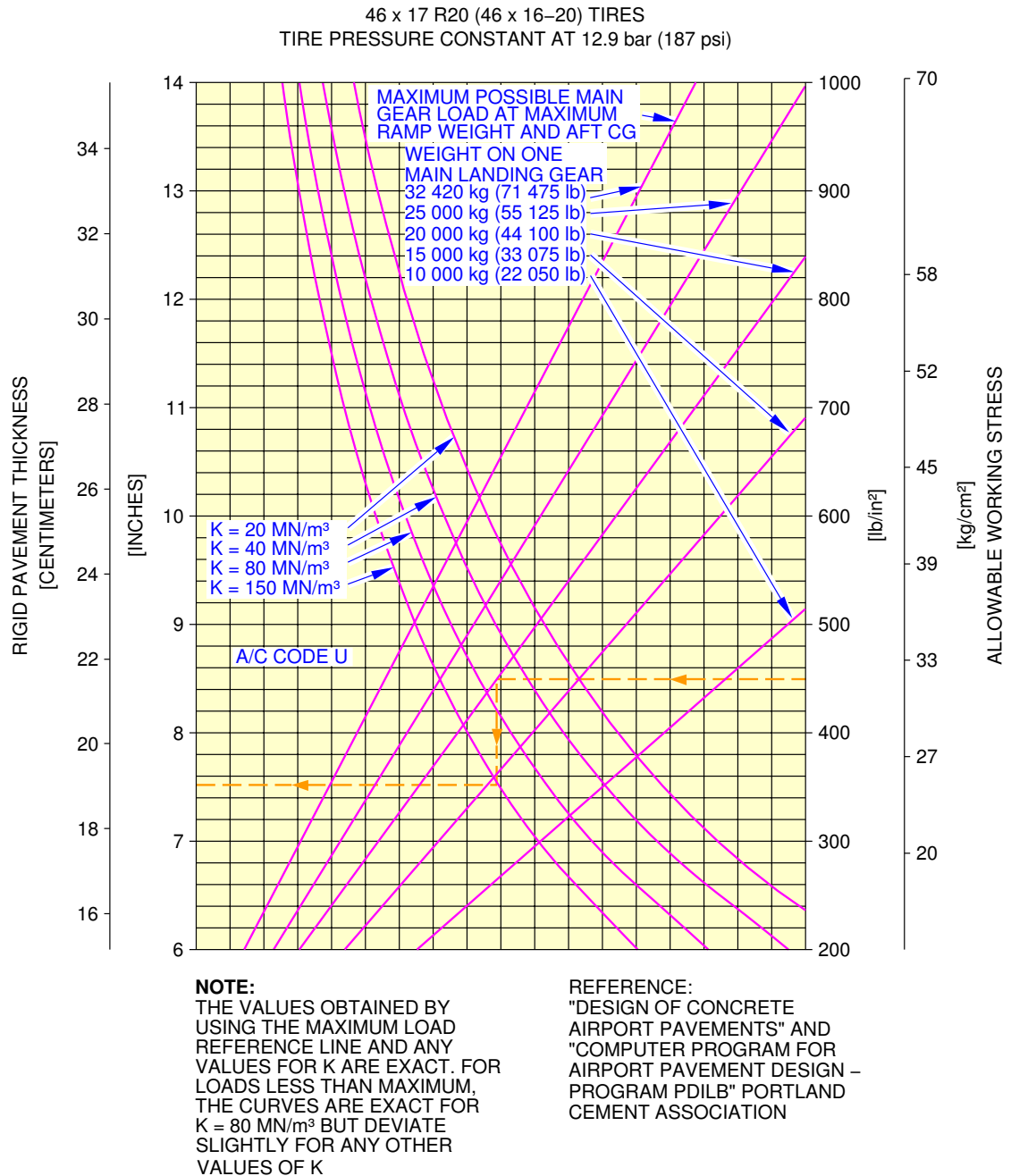
****ON A/C A319-100**



N_AC_070701_1_0550101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 18

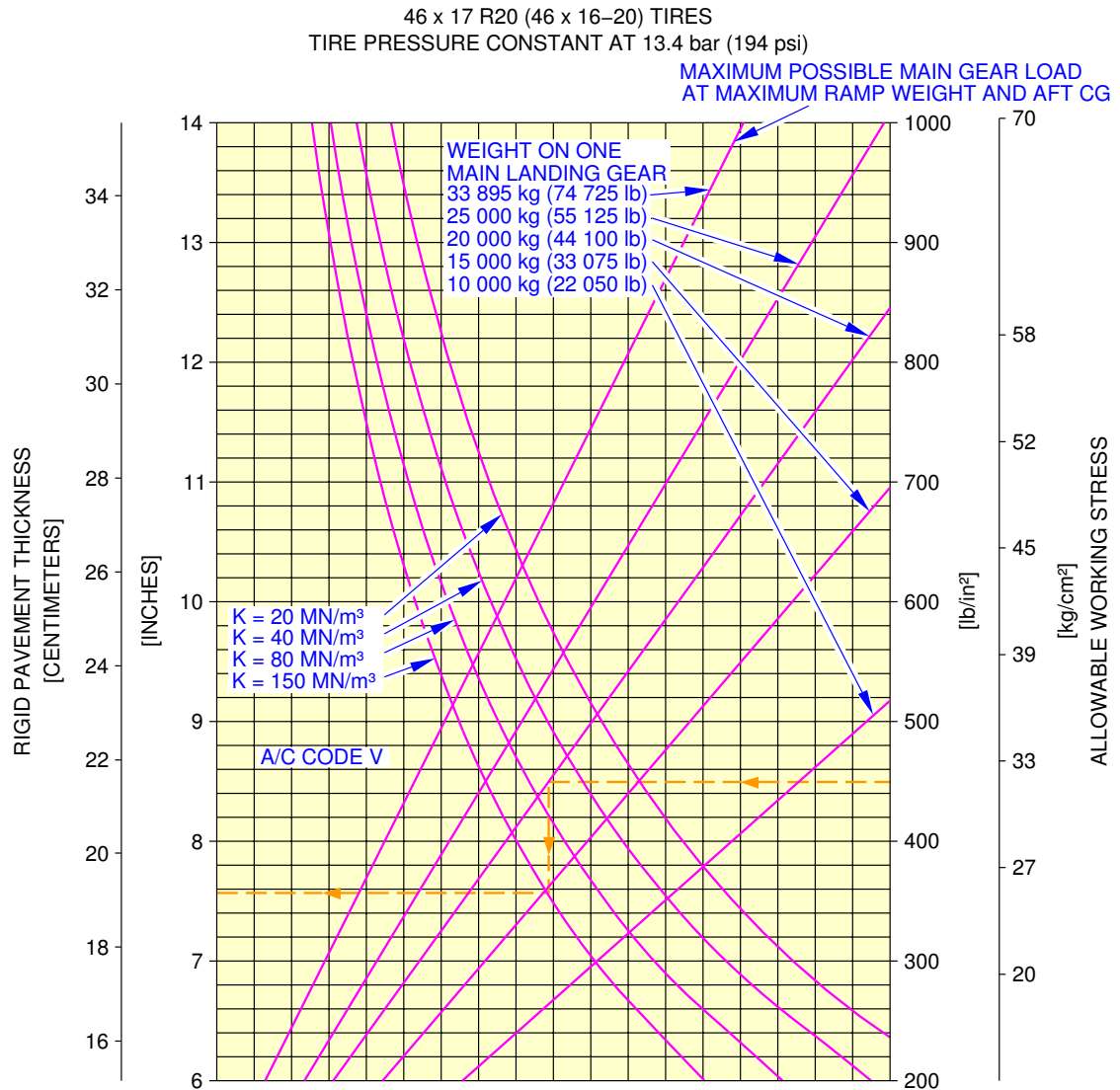
****ON A/C A319-100**



N_AC_070701_1_0560101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 19

****ON A/C A319-100**



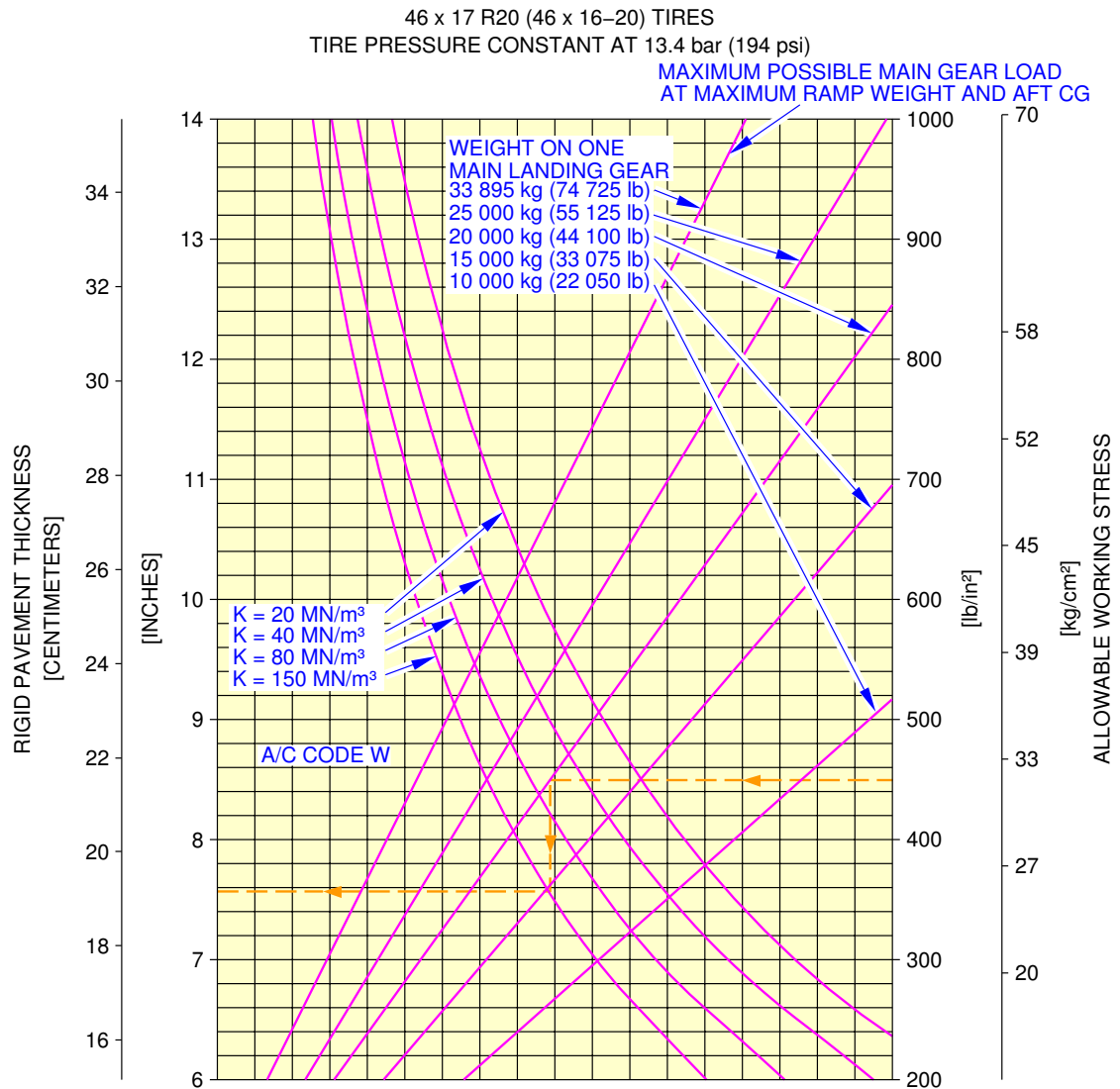
NOTE:
THE VALUES OBTAINED BY
USING THE MAXIMUM LOAD
REFERENCE LINE AND ANY
VALUES FOR K ARE EXACT. FOR
LOADS LESS THAN MAXIMUM,
THE CURVES ARE EXACT FOR
K = 80 MN/m³ BUT DEVIATE
SLIGHTLY FOR ANY OTHER
VALUES OF K

REFERENCE:
"DESIGN OF CONCRETE
AIRPORT PAVEMENTS" AND
"COMPUTER PROGRAM FOR
AIRPORT PAVEMENT DESIGN –
PROGRAM PDILB" PORTLAND
CEMENT ASSOCIATION

N_AC_070701_1_0570101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 20

****ON A/C A319-100**



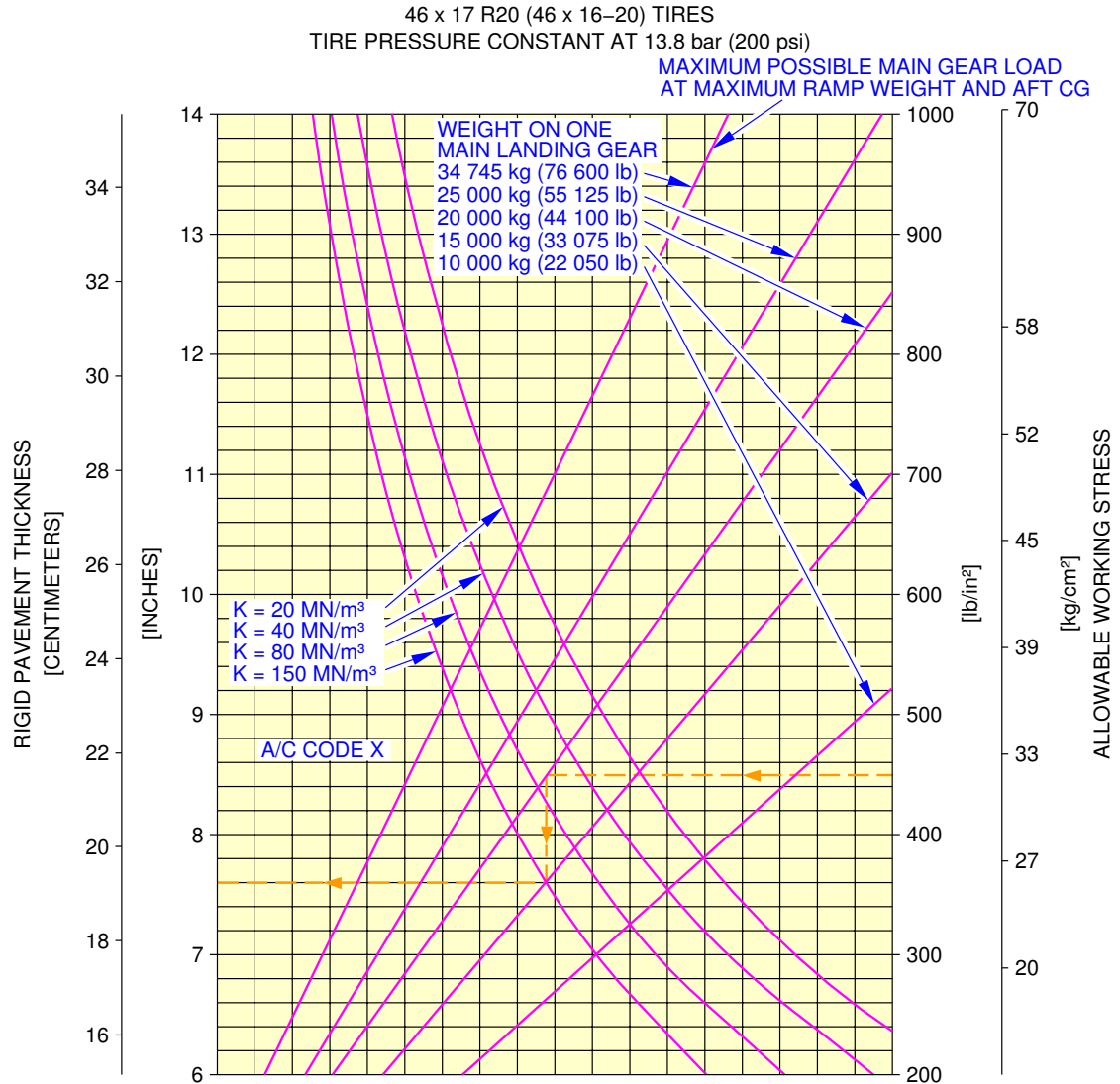
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CEMENT ASSOCIATION

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Rigid Pavement Requirements (PCA)
FIGURE 21

****ON A/C A319-100**



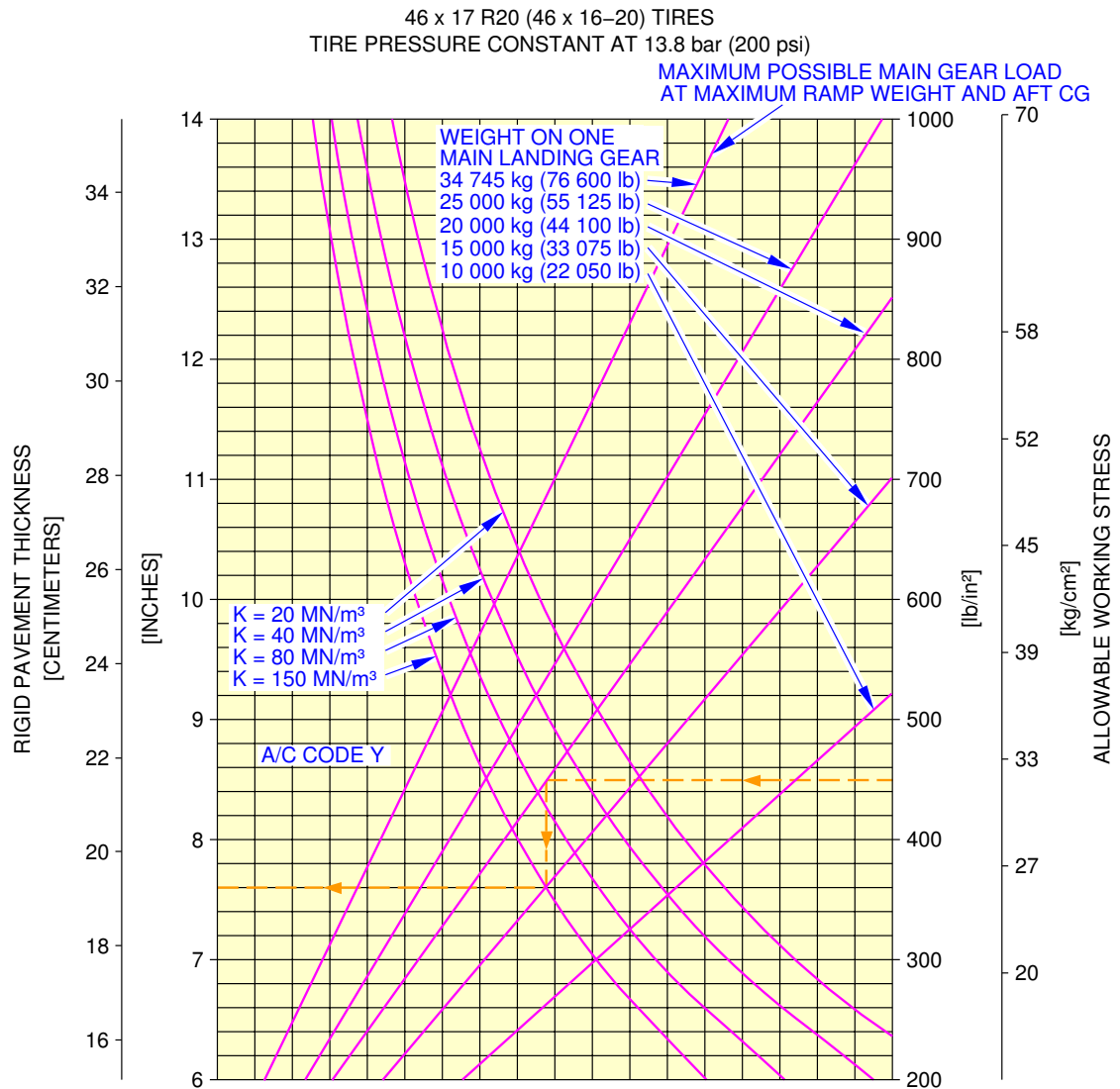
NOTE:
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Rigid Pavement Requirements (PCA)
FIGURE 22

****ON A/C A319-100**



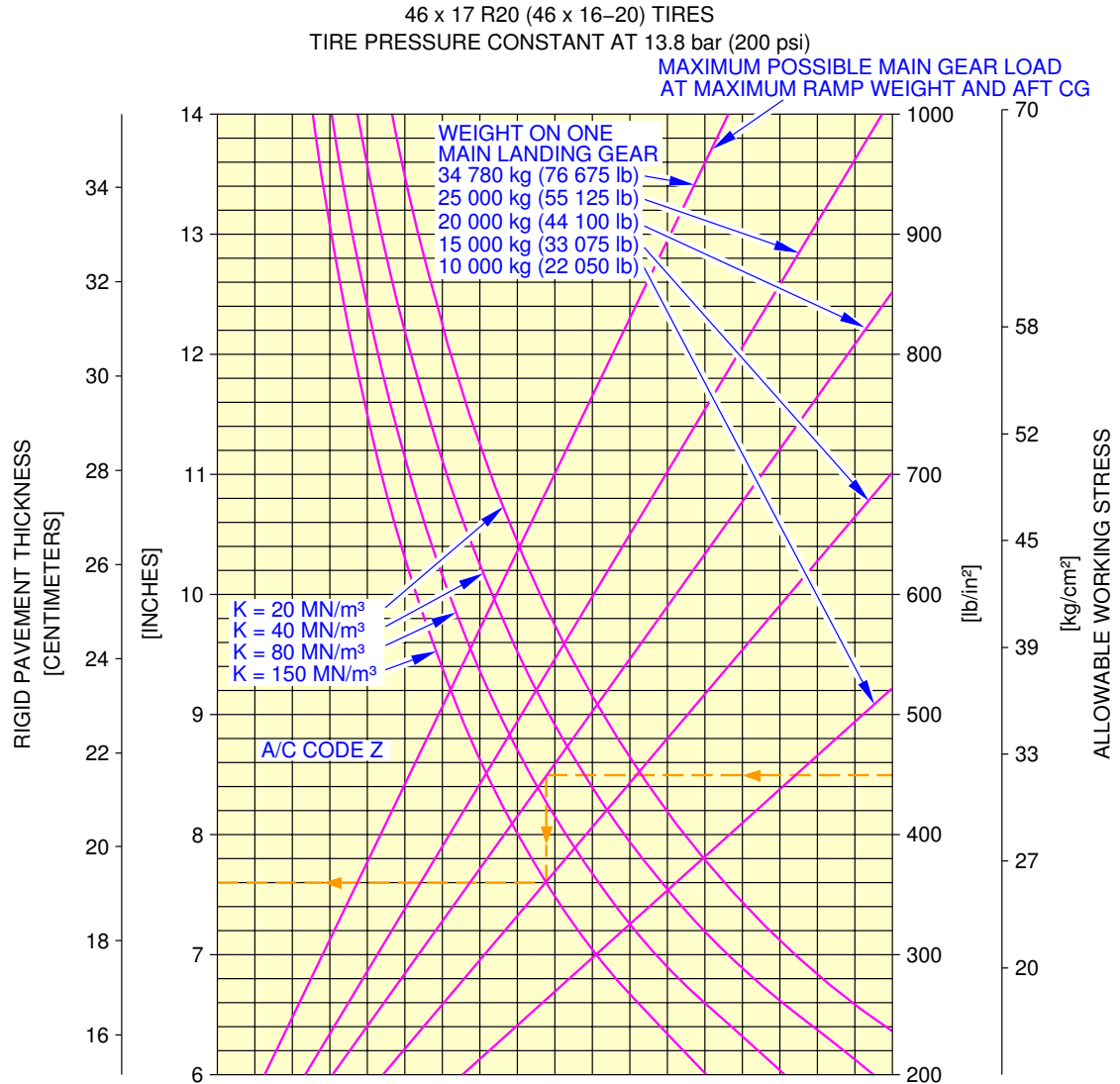
NOTE:
THE VALUES OBTAINED BY
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Rigid Pavement Requirements (PCA)
FIGURE 23

****ON A/C A319-100**



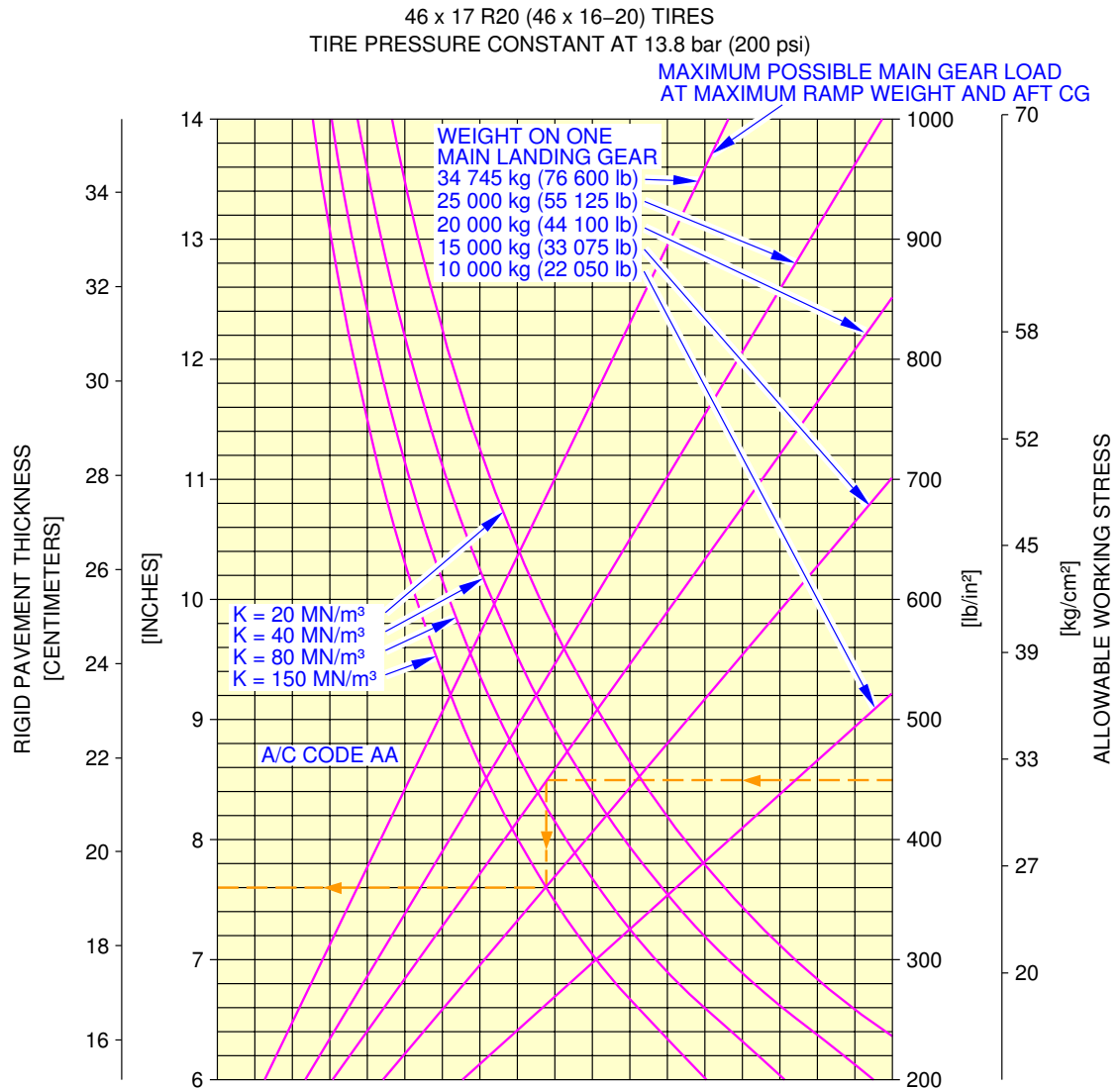
NOTE:
THE VALUES OBTAINED BY
USING THE MAXIMUM LOAD
REFERENCE LINE AND ANY
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Rigid Pavement Requirements (PCA)
FIGURE 24

****ON A/C A319-100**



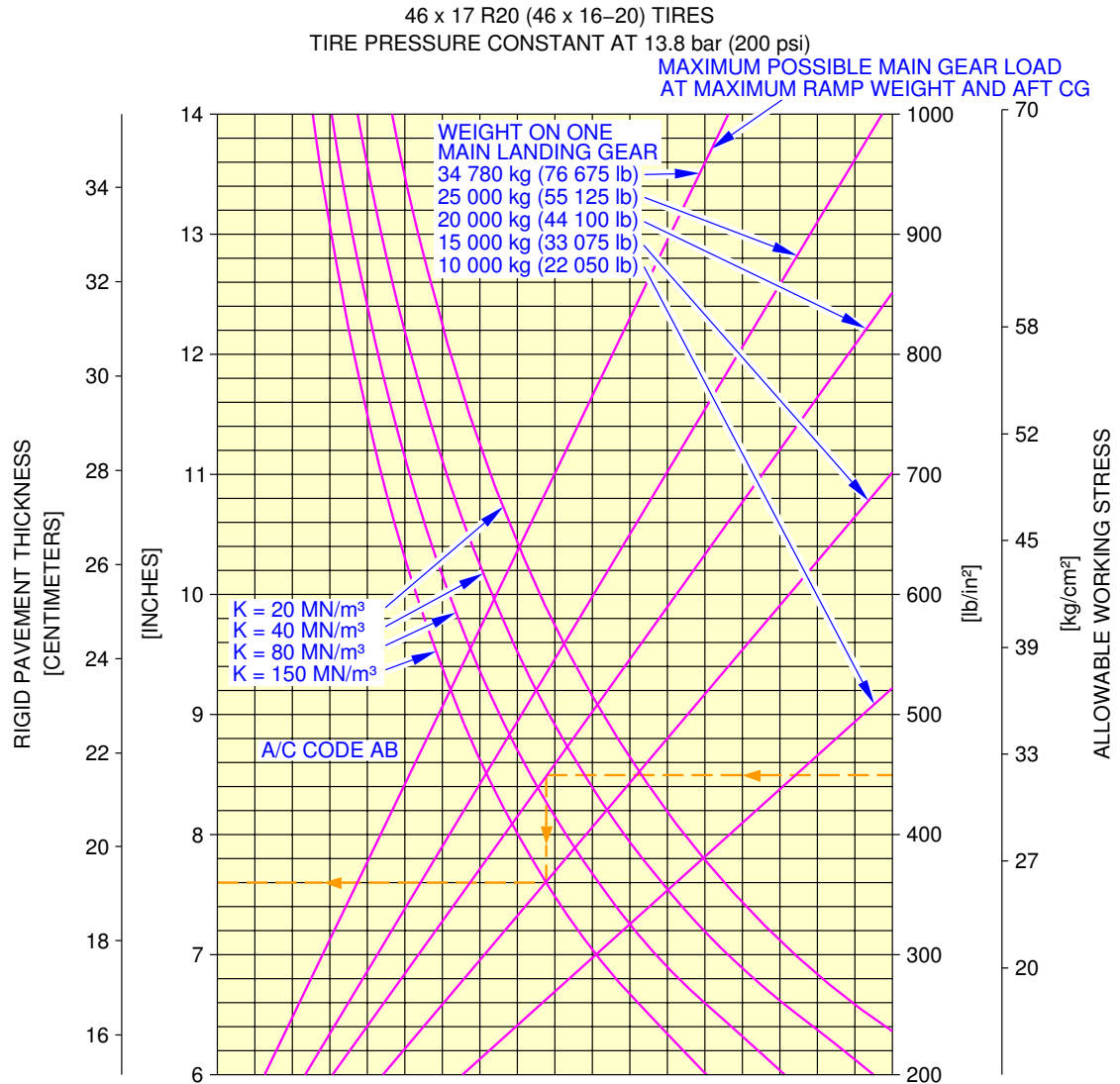
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VALUES FOR K ARE EXACT. FOR
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THE CURVES ARE EXACT FOR
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CEMENT ASSOCIATION

N_AC_070701_1_0620101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 25

****ON A/C A319-100**



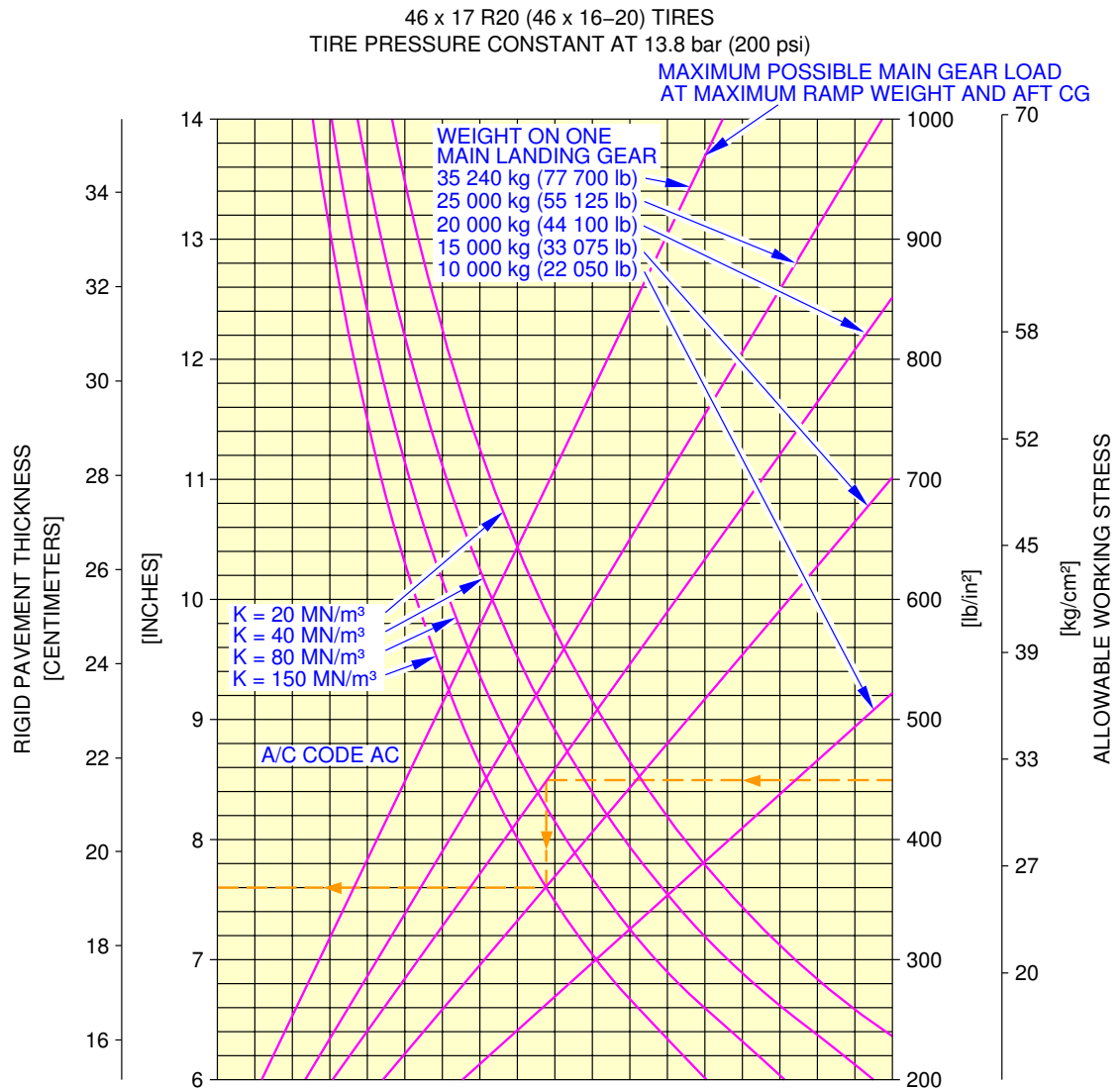
NOTE:
THE VALUES OBTAINED BY
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REFERENCE LINE AND ANY
VALUES FOR K ARE EXACT. FOR
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K = 80 MN/m³ BUT DEVIATE
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CEMENT ASSOCIATION

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Rigid Pavement Requirements (PCA)
FIGURE 26

****ON A/C A319-100**



NOTE:
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THE CURVES ARE EXACT FOR
K = 80 MN/m³ BUT DEVIATE
SLIGHTLY FOR ANY OTHER
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"COMPUTER PROGRAM FOR
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CEMENT ASSOCIATION

N_AC_070701_1_0640101_01_00

Rigid Pavement Requirements (PCA)
FIGURE 27

7-8-0 Rigid Pavement Requirements - LCN Conversion****ON A/C A319-100**Rigid Pavement Requirements - LCN Conversion**1. General**

In order to determine the airplane weight that can be accommodated on a particular Rigid Pavement, both the LCN of the pavement and the Radius of Relative Stiffness (L) must be known.

In the example shown in Section 7-8-2 Rigid Pavement Requirements - LCN Conversion, A/C Code C for:

The Radius of Relative Stiffness is shown at 30 inches with an LCN of 56.

For these conditions, the weight on one Main Landing Gear is 25 000 kg (55 125 lb).

7-8-1 Radius of Relative Stiffness****ON A/C A319-100**Radius of Relative Stiffness

1. This section gives Radius of Relative Stiffness.

****ON A/C A319-100**

RADIUS OF RELATIVE STIFFNESS (L)
VALUES IN INCHES

$$L = \sqrt[4]{\frac{Ed^3}{12(1-\mu^2)k}} = 24.1652 \sqrt[4]{\frac{d^3}{k}}$$

WHERE E = Young's Modulus = 4×10^6 psi
k = Subgrade Modulus, lbf/in³
d = Rigid Pavement Thickness, inches
 μ = Poisson's Ratio = 0.15

d	K=75	K=100	K=150	K=200	K=250	K=300	K=350	K=400	K=550
6.0	31.48	29.30	26.47	24.63	23.30	22.26	21.42	20.72	19.13
6.5	33.43	31.11	28.11	26.16	24.74	23.64	22.74	22.00	20.31
7.0	35.34	32.89	29.72	27.65	26.15	24.99	24.04	23.25	21.47
7.5	37.22	34.63	31.29	29.12	27.54	26.32	25.32	24.49	22.61
8.0	39.06	36.35	32.85	30.57	28.91	27.62	26.58	25.70	23.74
8.5	40.88	38.04	34.37	31.99	30.25	28.91	27.81	26.90	24.84
9.0	42.67	39.71	35.88	33.39	31.58	30.17	29.03	28.08	25.93
9.5	44.43	41.35	37.36	34.77	32.89	31.42	30.23	29.24	27.00
10.0	46.18	42.97	38.83	36.14	34.17	32.65	31.42	30.39	28.06
10.5	47.90	44.57	40.28	37.48	35.45	33.87	32.59	31.52	29.11
11.0	49.60	46.16	41.71	38.81	36.71	35.07	33.75	32.64	30.14
11.5	51.28	47.72	43.12	40.13	37.95	36.26	34.89	33.74	32.16
12.0	52.94	49.27	44.52	41.43	39.18	37.44	36.02	34.84	32.17
12.5	54.59	50.80	45.90	42.72	40.40	38.60	37.14	35.92	33.17
13.0	56.22	52.32	47.27	43.99	41.61	39.75	38.25	36.99	34.16
13.5	57.83	53.82	48.63	45.26	42.80	40.89	39.35	38.06	35.14
14.0	59.43	55.31	49.98	46.51	43.98	42.02	40.44	39.11	36.12
14.5	61.02	56.78	51.31	47.75	45.16	43.15	41.51	40.15	37.08
15.0	62.59	58.25	52.63	48.98	46.32	44.26	42.58	41.19	38.03
15.5	64.15	59.70	53.94	50.20	47.47	45.36	43.64	42.21	38.98
16.0	65.69	61.13	55.24	51.41	48.62	46.45	44.70	43.23	39.92
16.5	67.23	62.56	56.53	52.61	49.75	47.54	45.74	44.24	40.85
17.0	68.75	63.98	57.81	53.80	50.88	48.61	46.77	45.24	41.78
17.5	70.26	65.38	59.08	54.98	52.00	49.68	47.80	46.23	42.70
18.0	71.76	66.78	60.34	56.15	53.11	50.74	48.82	47.22	43.61
19.0	74.73	69.54	62.84	58.48	55.31	52.84	50.84	49.17	45.41
20.0	77.66	72.27	65.30	60.77	57.47	54.91	52.84	51.10	47.19
21.0	80.55	74.96	67.74	63.04	59.62	56.96	54.81	53.01	48.95
22.0	83.41	77.63	70.14	65.28	61.73	58.98	56.75	54.89	50.69
23.0	86.24	80.26	72.52	67.49	63.83	60.98	58.68	56.75	52.41
24.0	89.04	82.86	74.87	69.68	65.90	62.96	60.58	58.59	54.11
25.0	91.81	85.44	77.20	71.84	67.95	64.92	62.46	60.41	55.79

N_AC_070801_1_0020101_01_01

Radius of Relative Stiffness
(Reference: Portland Cement Association)
FIGURE 1

7-8-2 Rigid Pavement Requirements - LCN Conversion

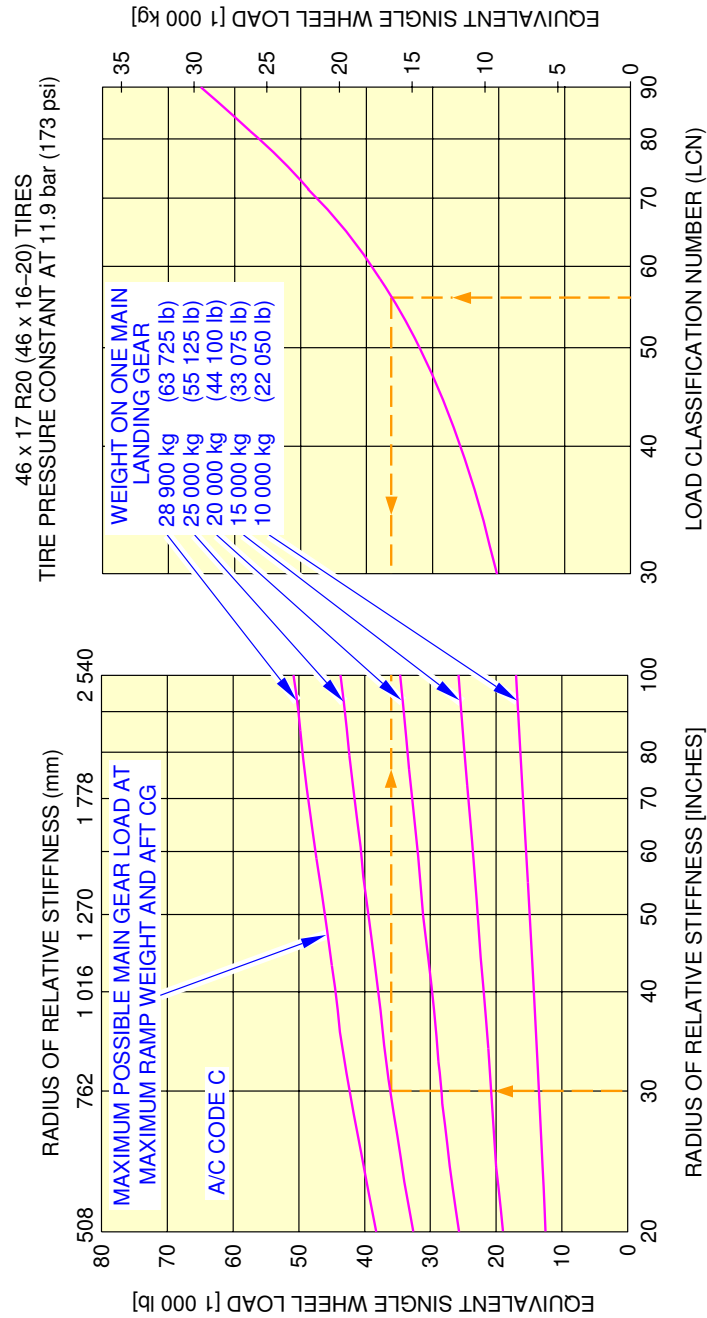
****ON A/C A319-100**

Rigid Pavement Requirements - LCN Conversion

1. This section gives Rigid Pavement Requirements - LCN Conversion.

I NOTE : For A/C Code definition, refer to chapter 7-1-0.

****ON A/C A319-100**

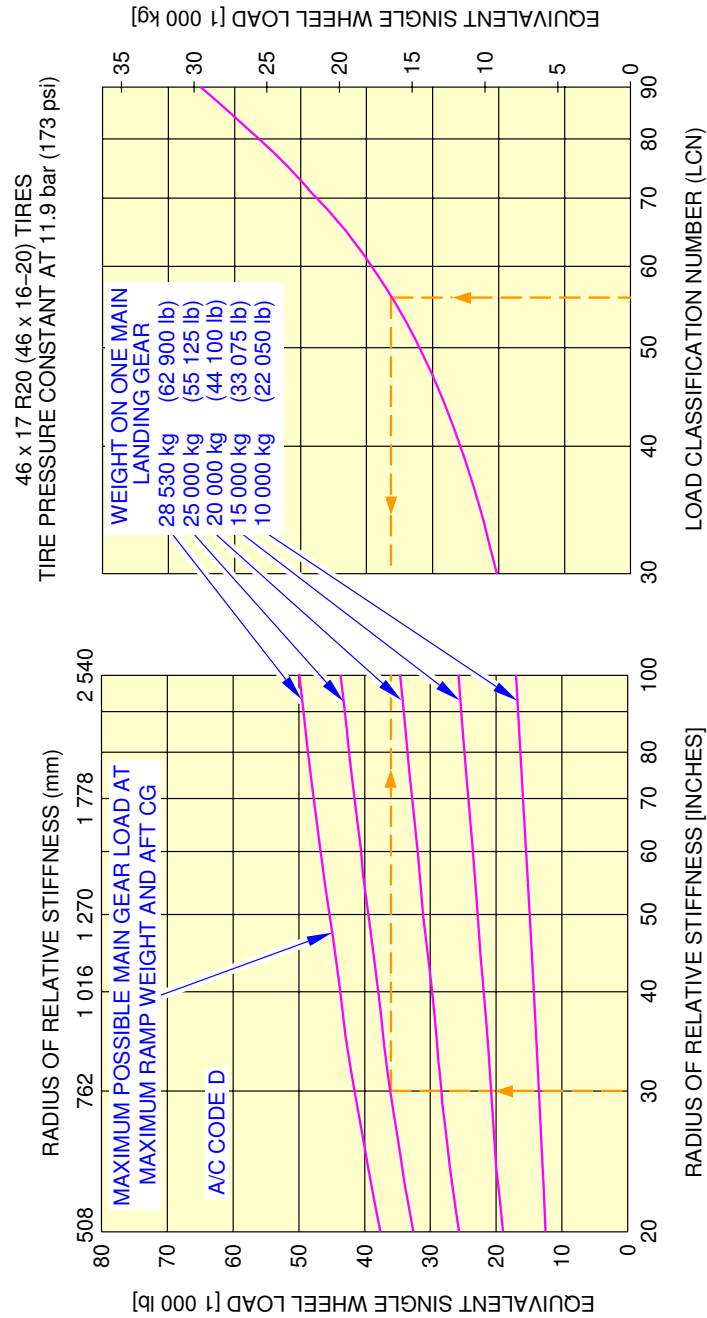


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 1

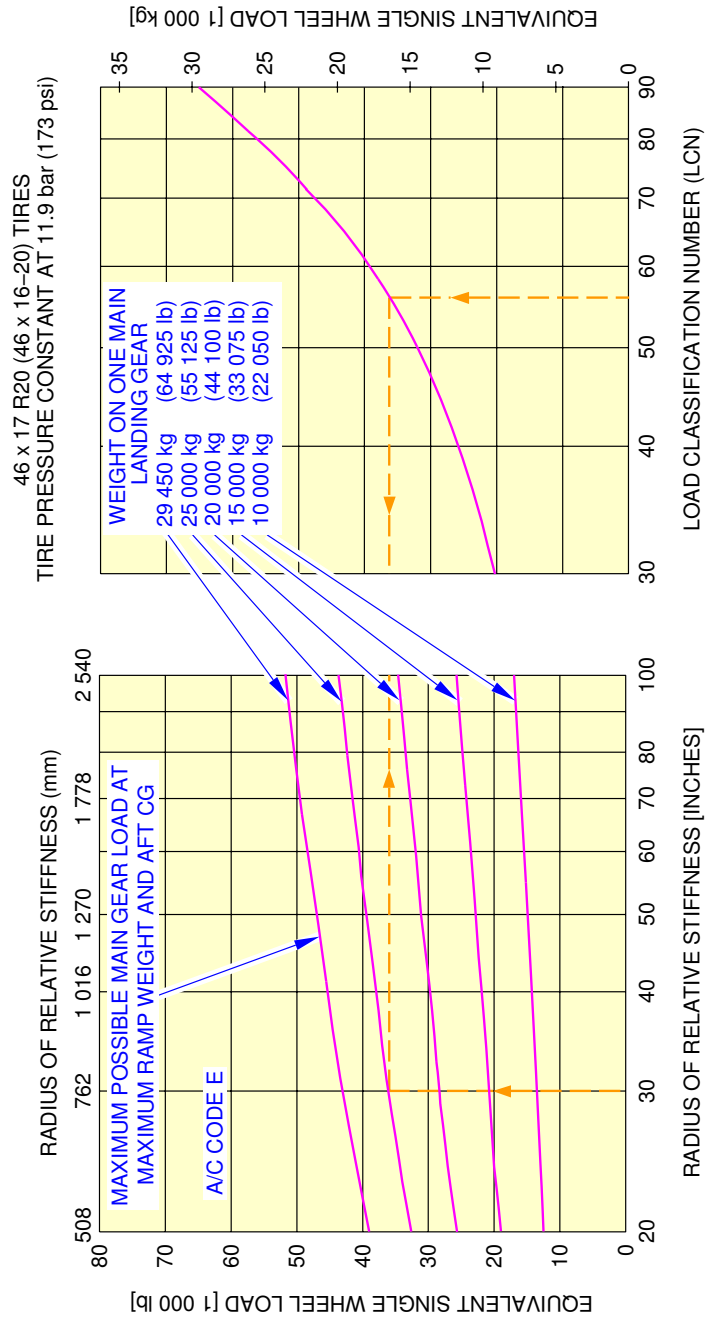
****ON A/C A319-100**



N_AC_070802_1_0420101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 2

****ON A/C A319-100**

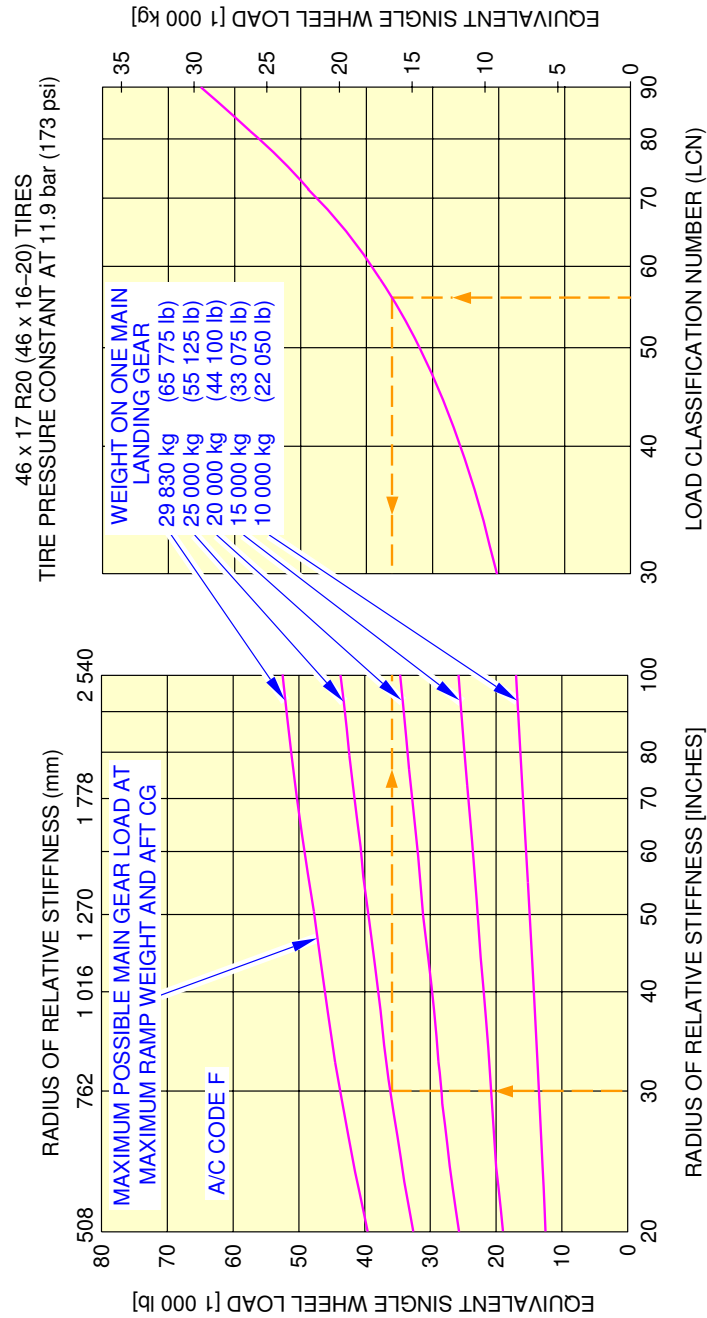


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 3

****ON A/C A319-100**

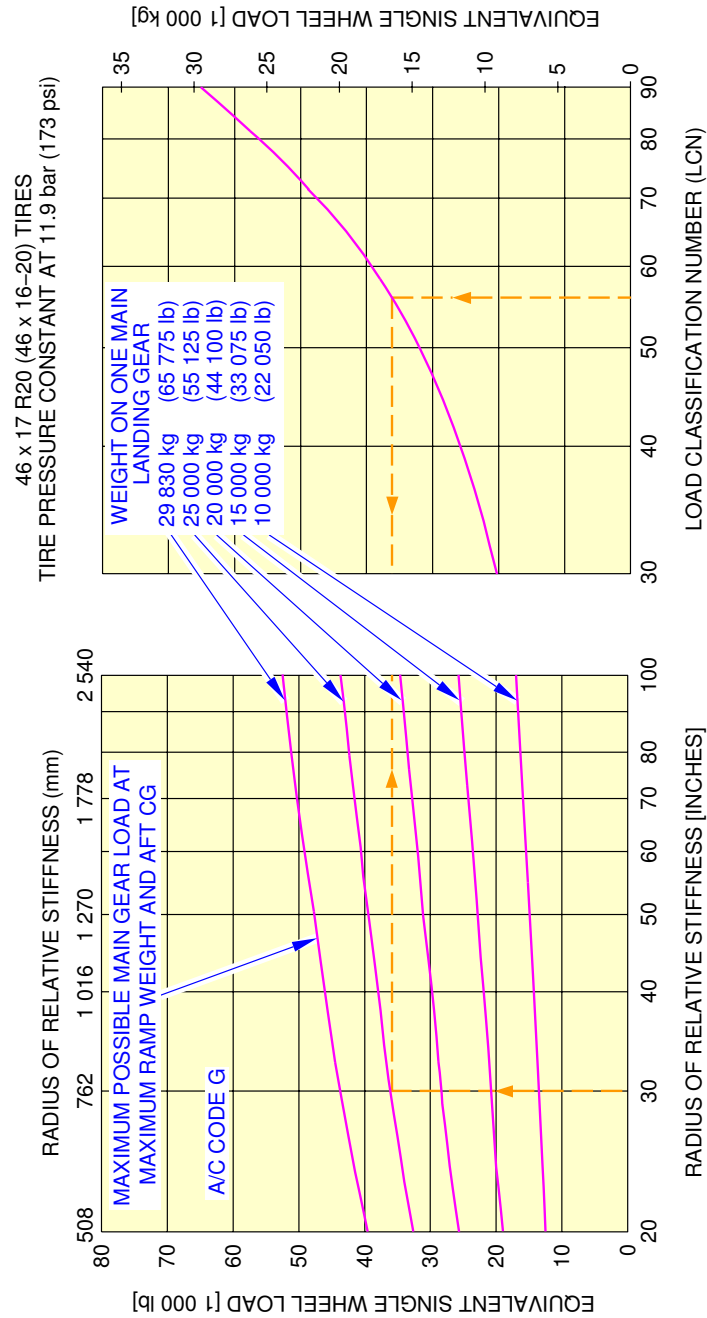


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 4

****ON A/C A319-100**

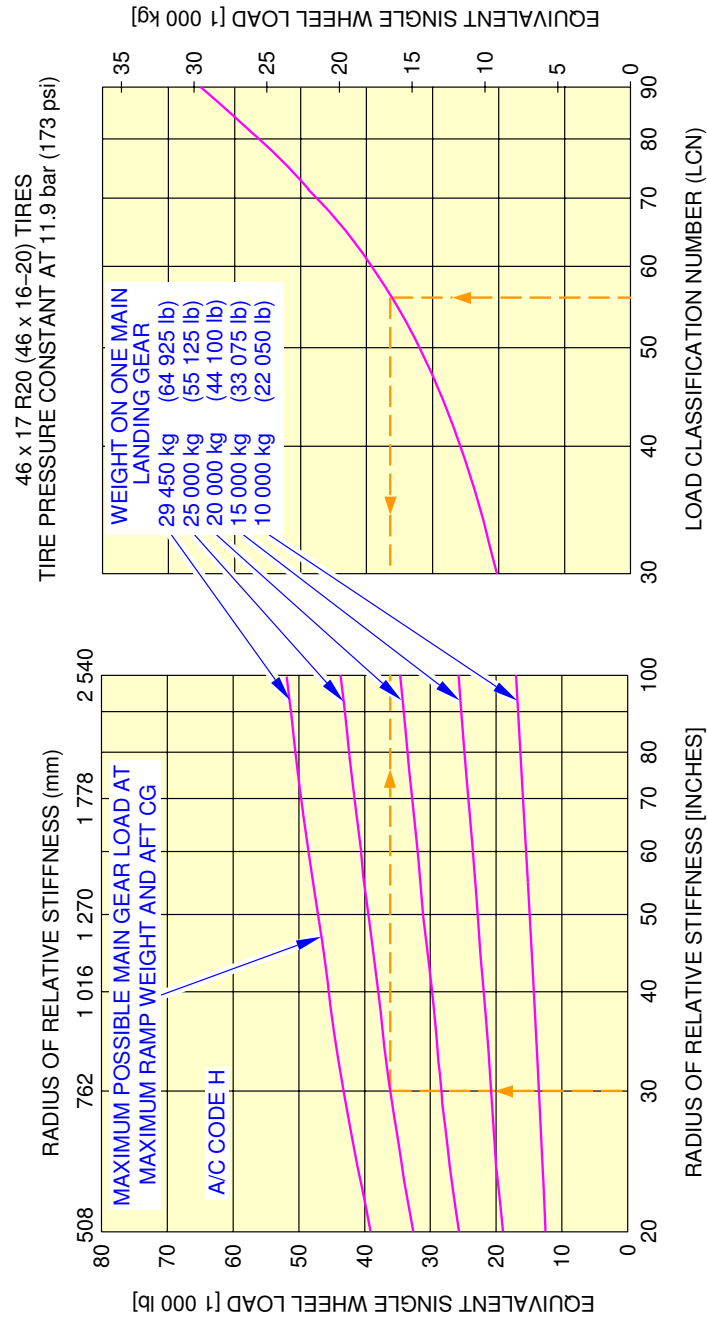


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 5

****ON A/C A319-100**

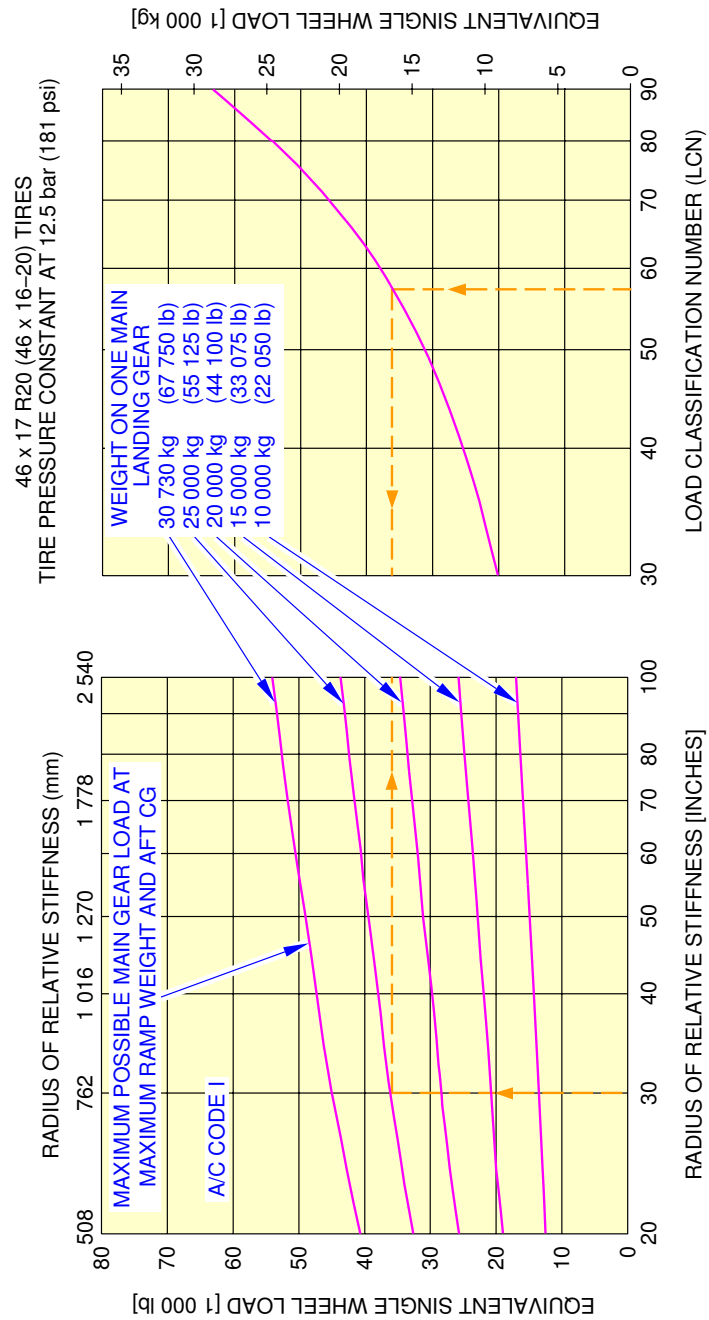


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 6

****ON A/C A319-100**

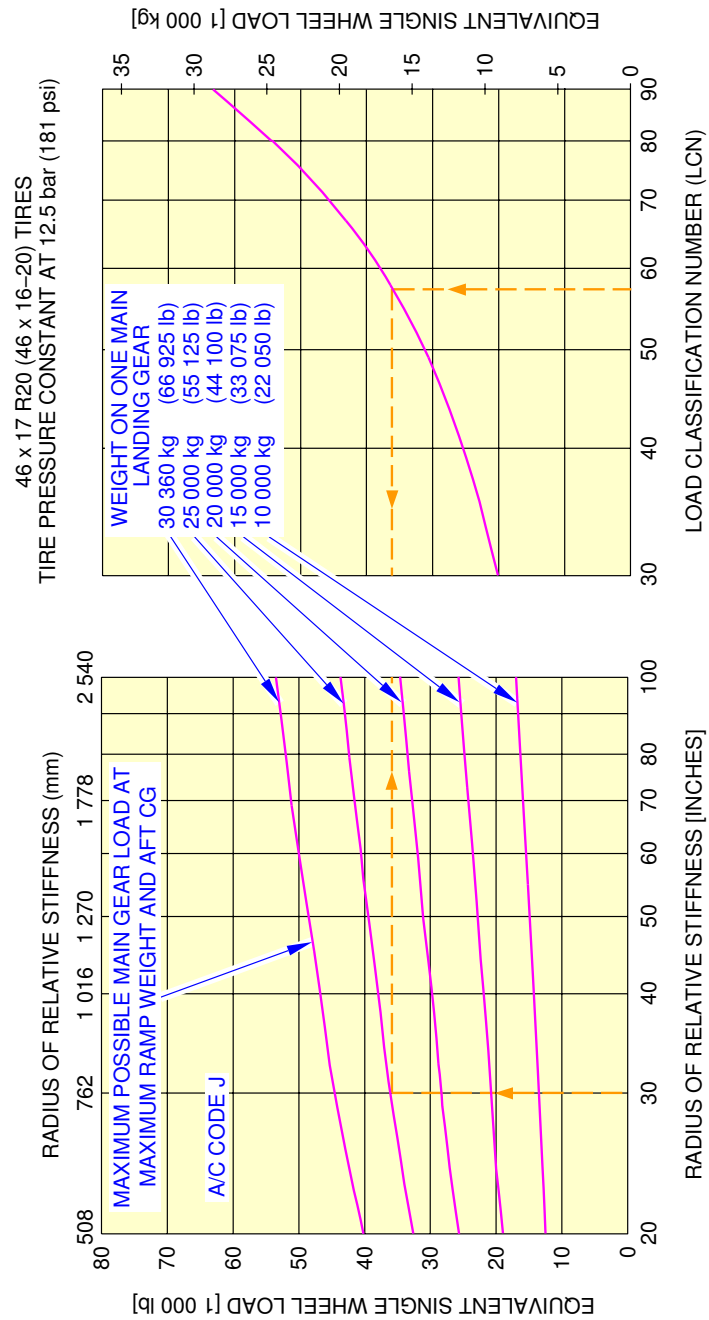


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 7

****ON A/C A319-100**

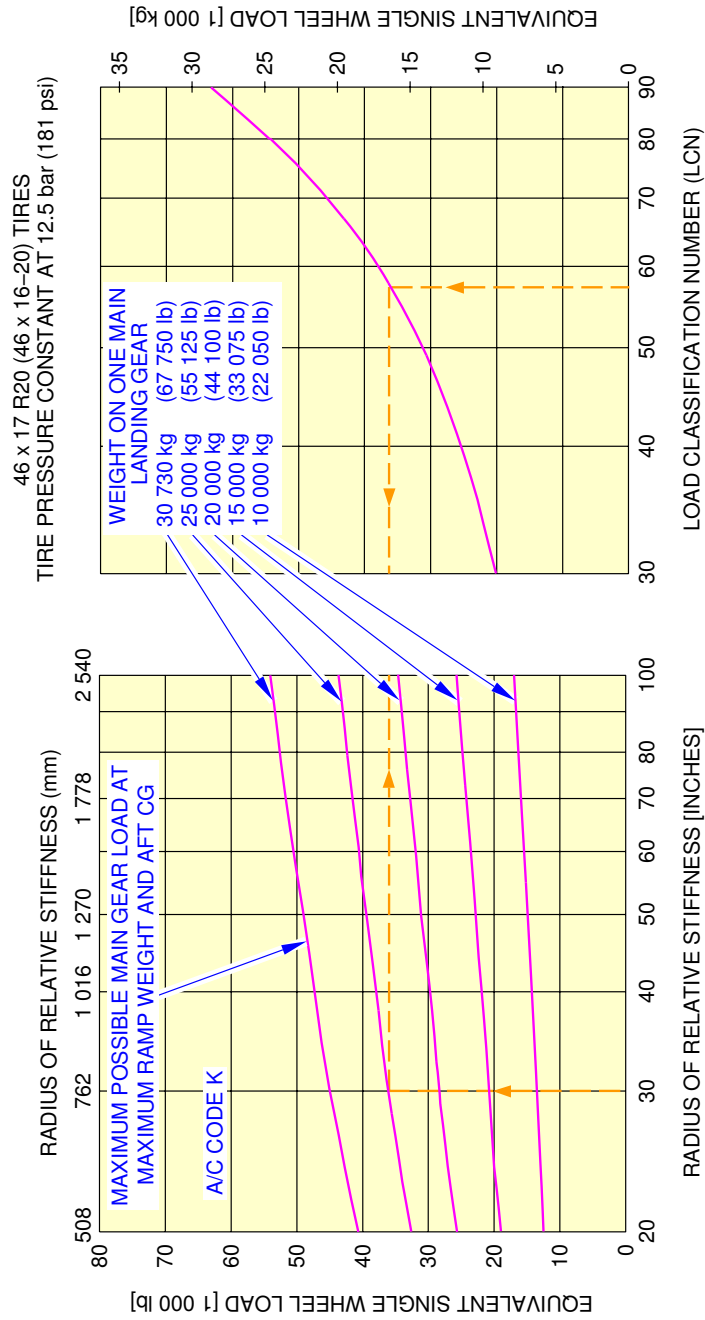


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 8

****ON A/C A319-100**

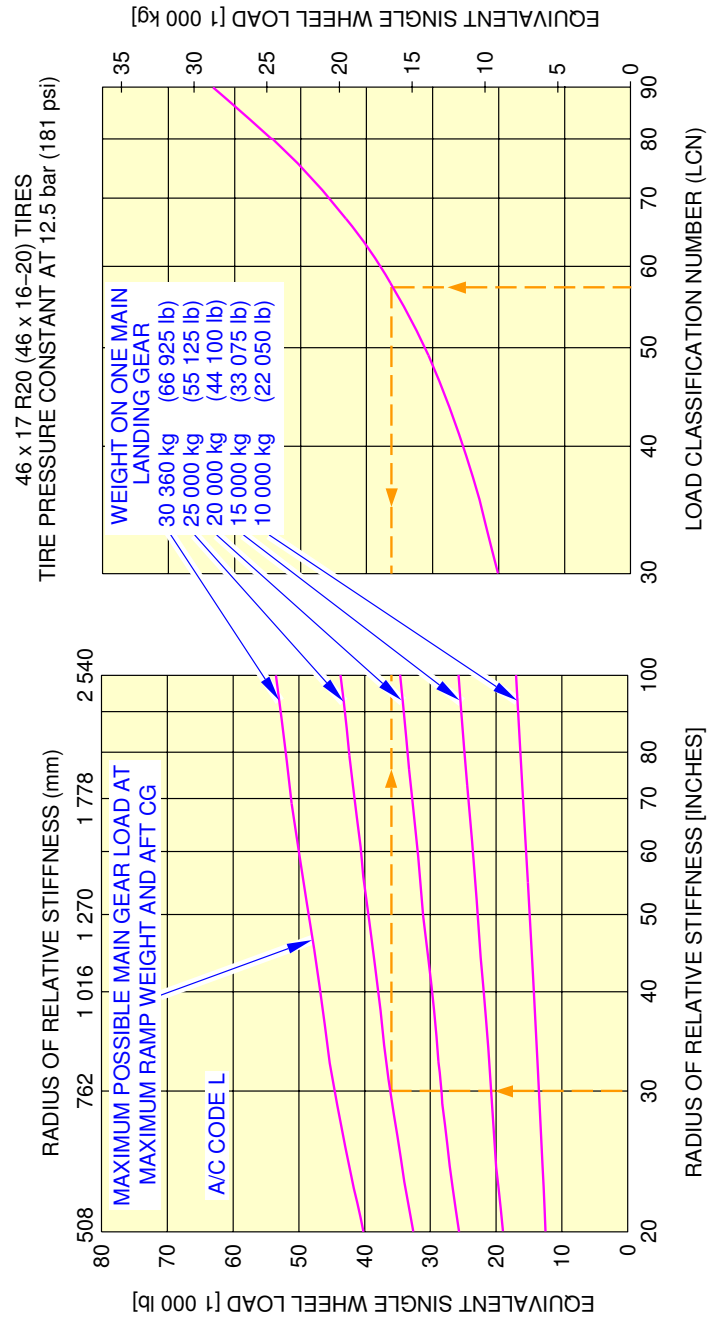


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 9

****ON A/C A319-100**

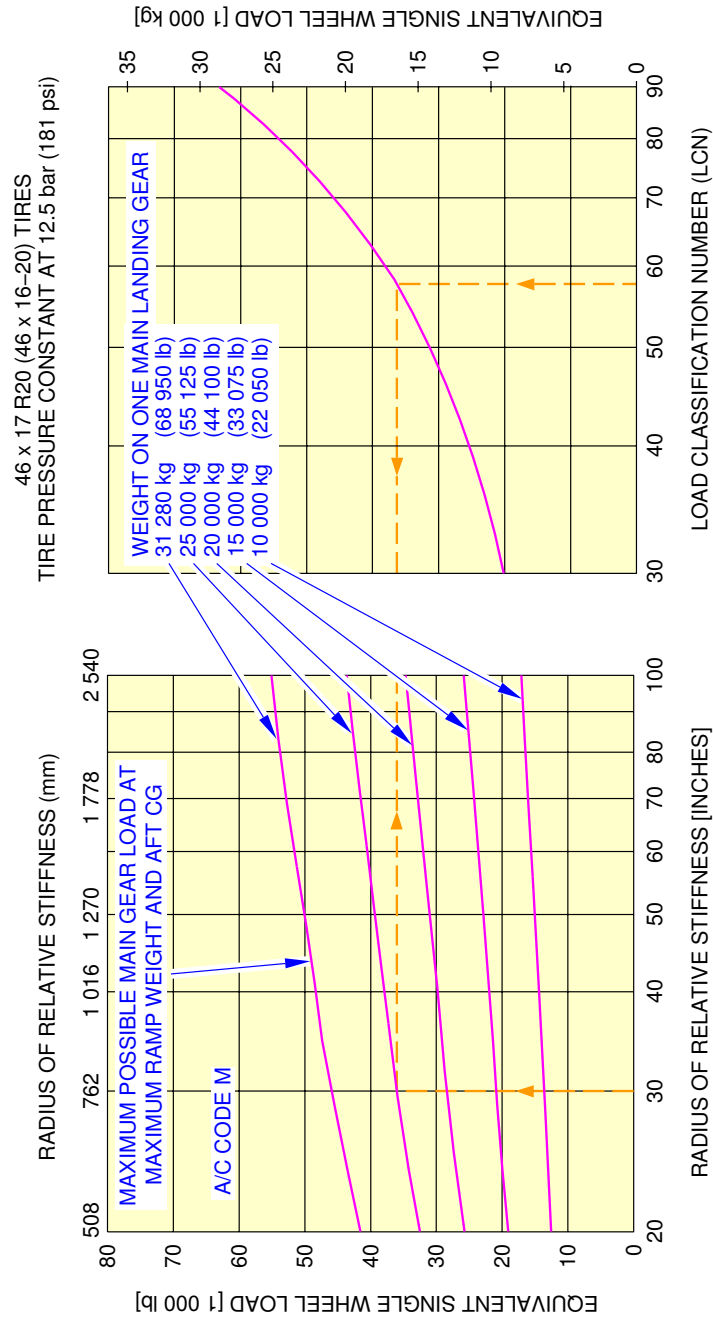


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Rigid Pavement Requirements - LCN Conversion
FIGURE 10

****ON A/C A319-100**

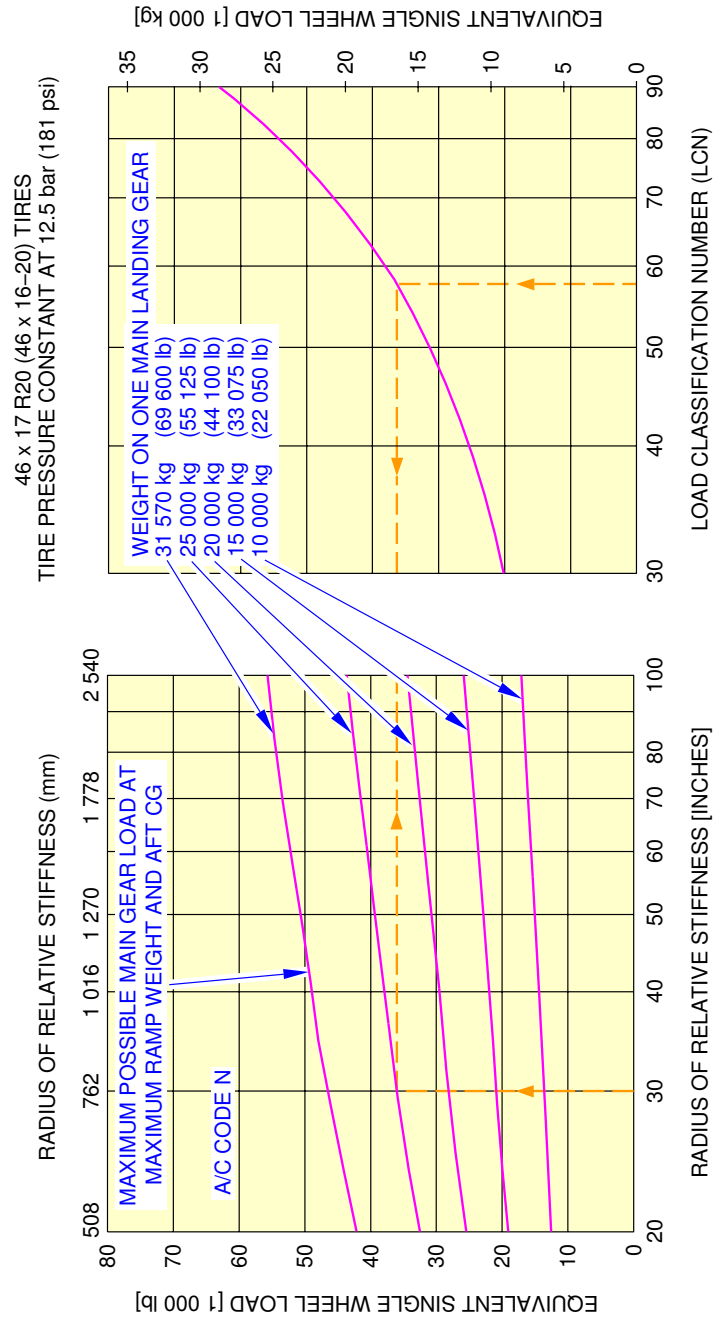


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN
ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 11

****ON A/C A319-100**

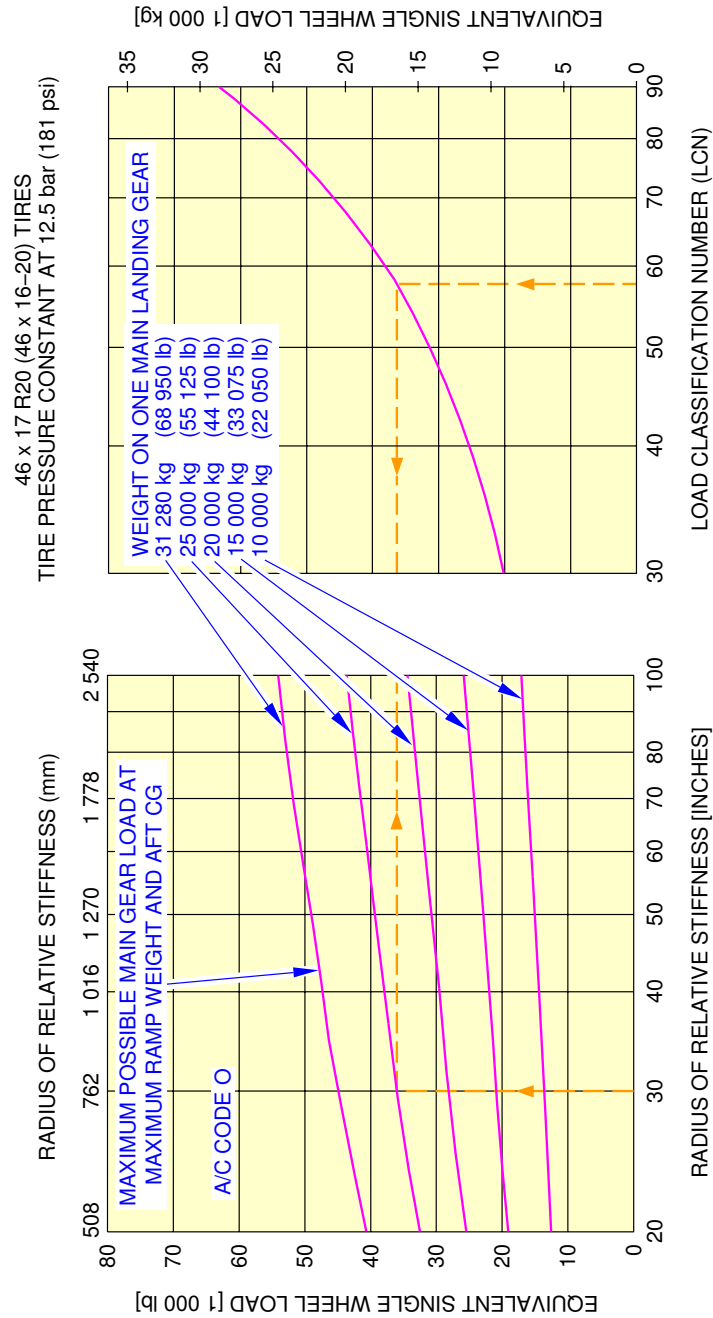


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 12

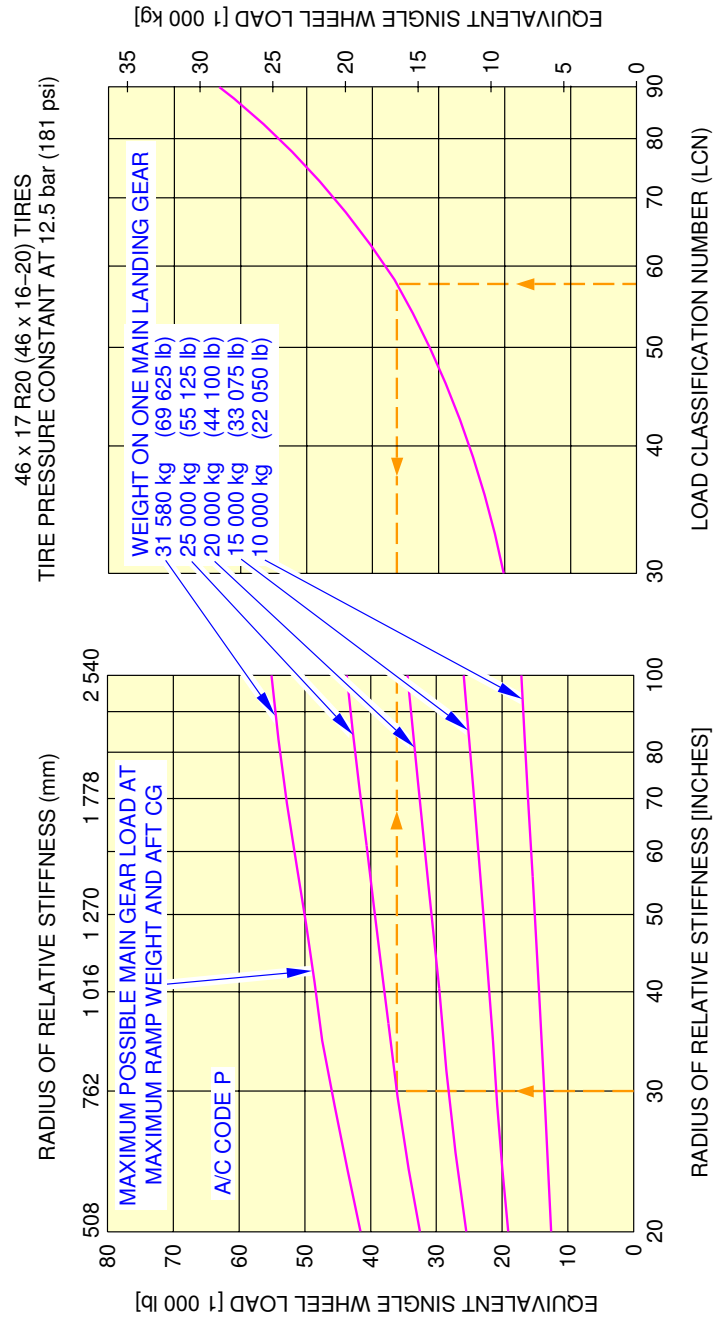
****ON A/C A319-100**



N_AC_070802_1_0530101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 13

****ON A/C A319-100**

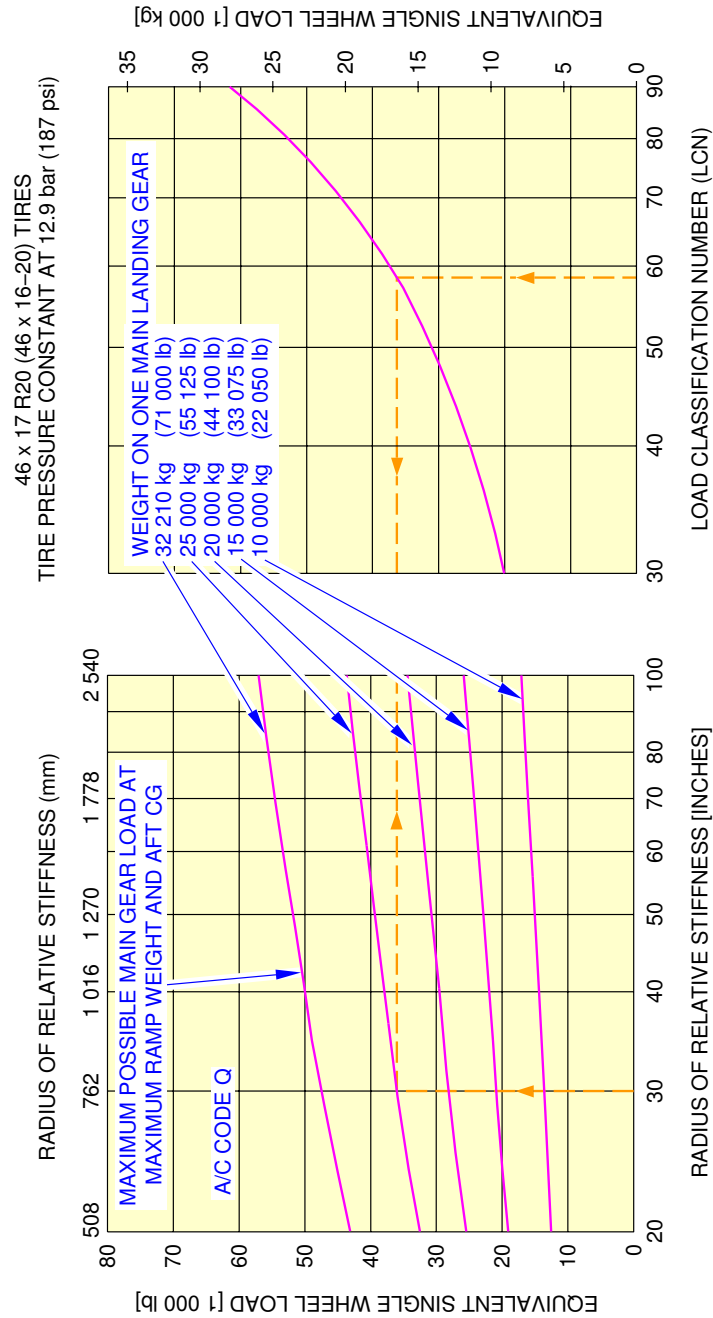


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

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Rigid Pavement Requirements - LCN Conversion
FIGURE 14

****ON A/C A319-100**

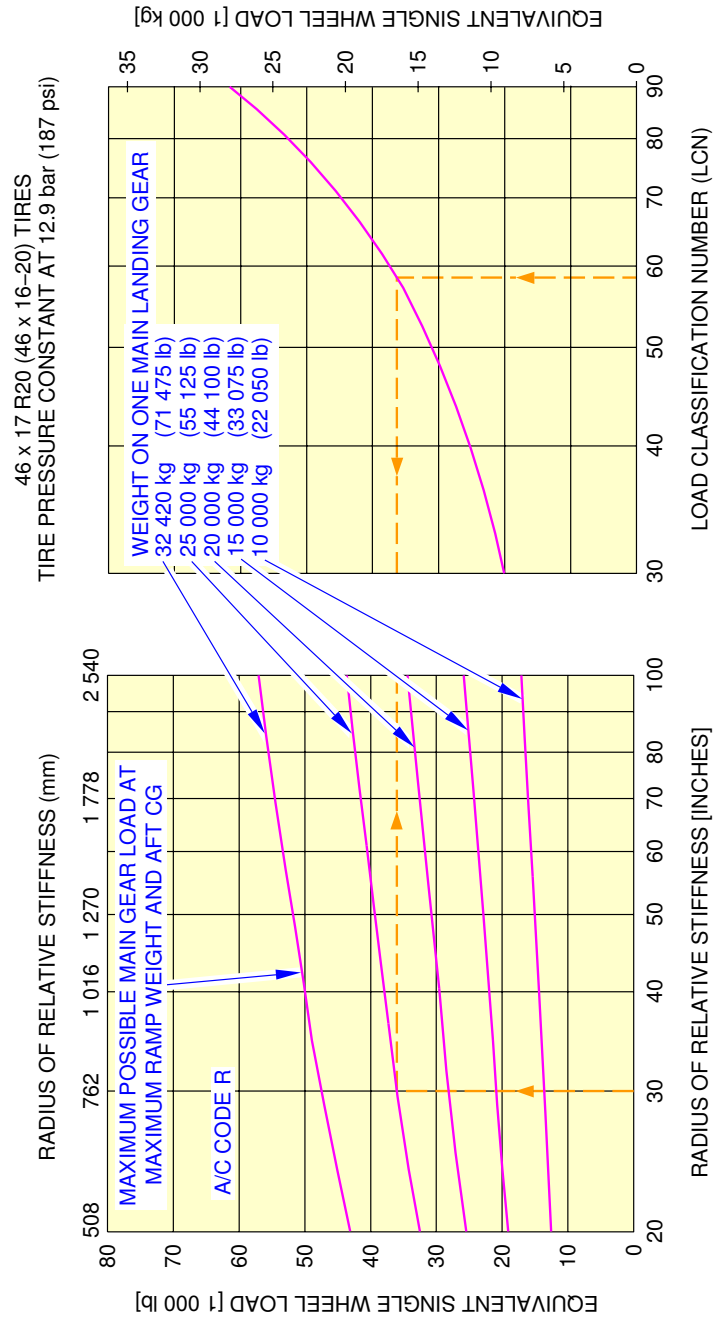


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Rigid Pavement Requirements - LCN Conversion
FIGURE 15

****ON A/C A319-100**

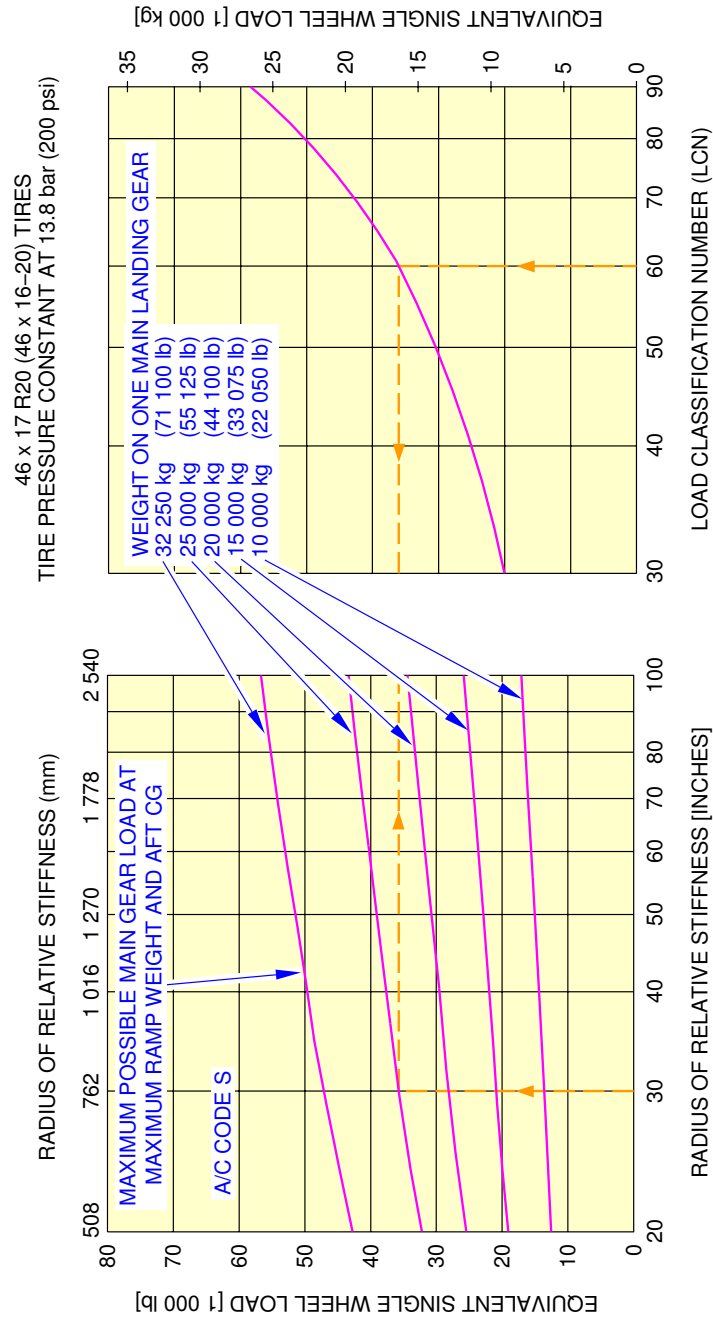


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070802_1_0560101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 16

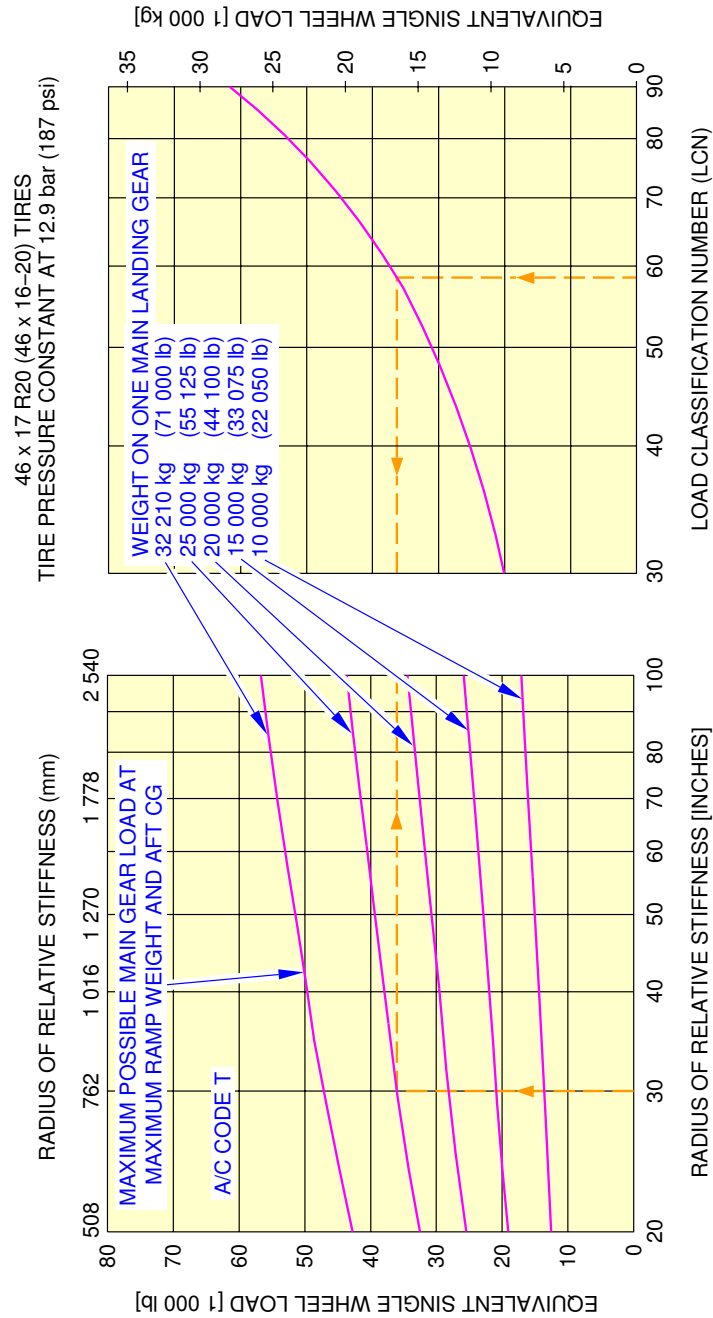
****ON A/C A319-100**



N_AC_070802_1_0570101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 17

****ON A/C A319-100**

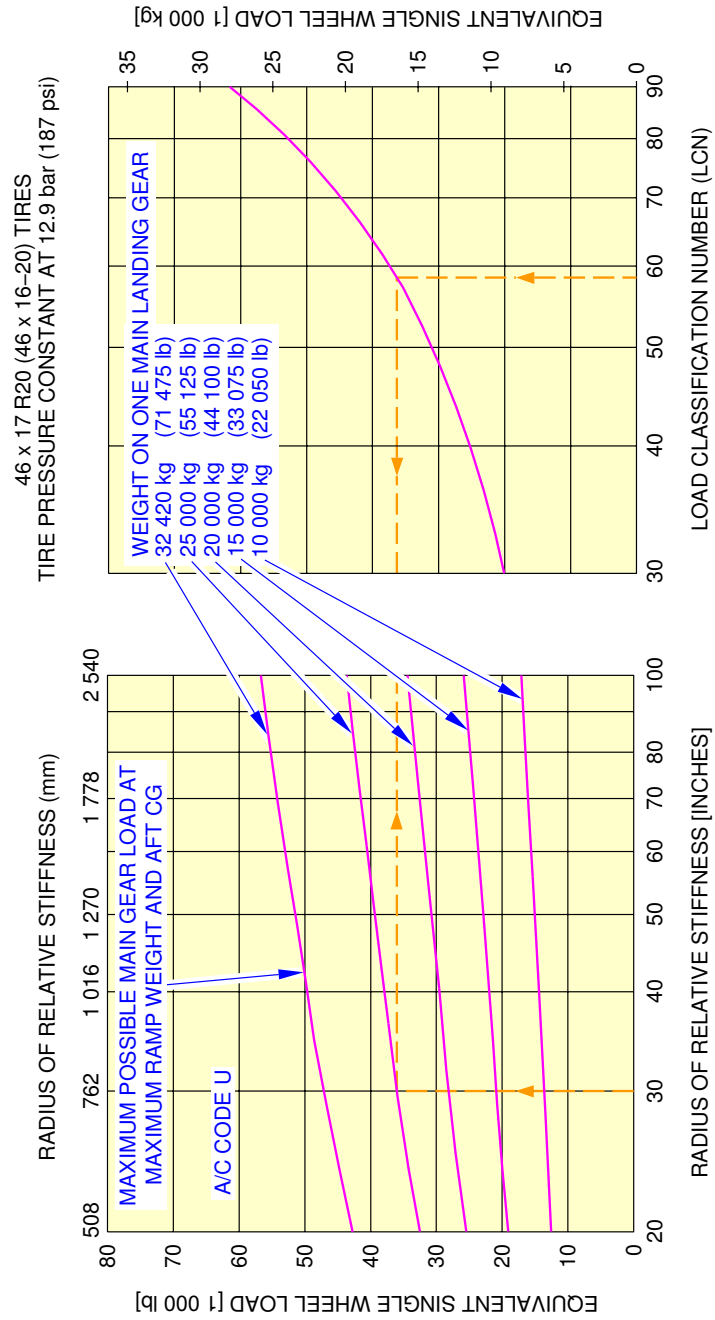


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070802_1_0580101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 18

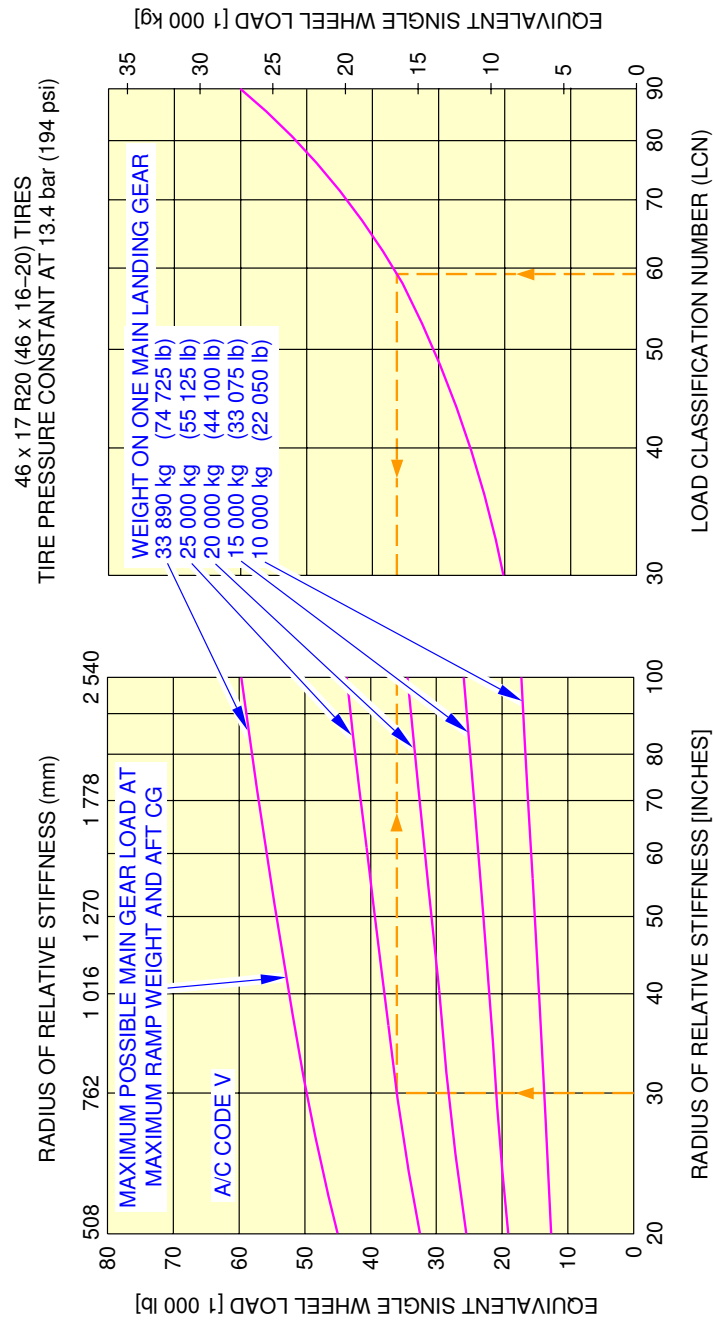
****ON A/C A319-100**



N_AC_070802_1_0590101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 19

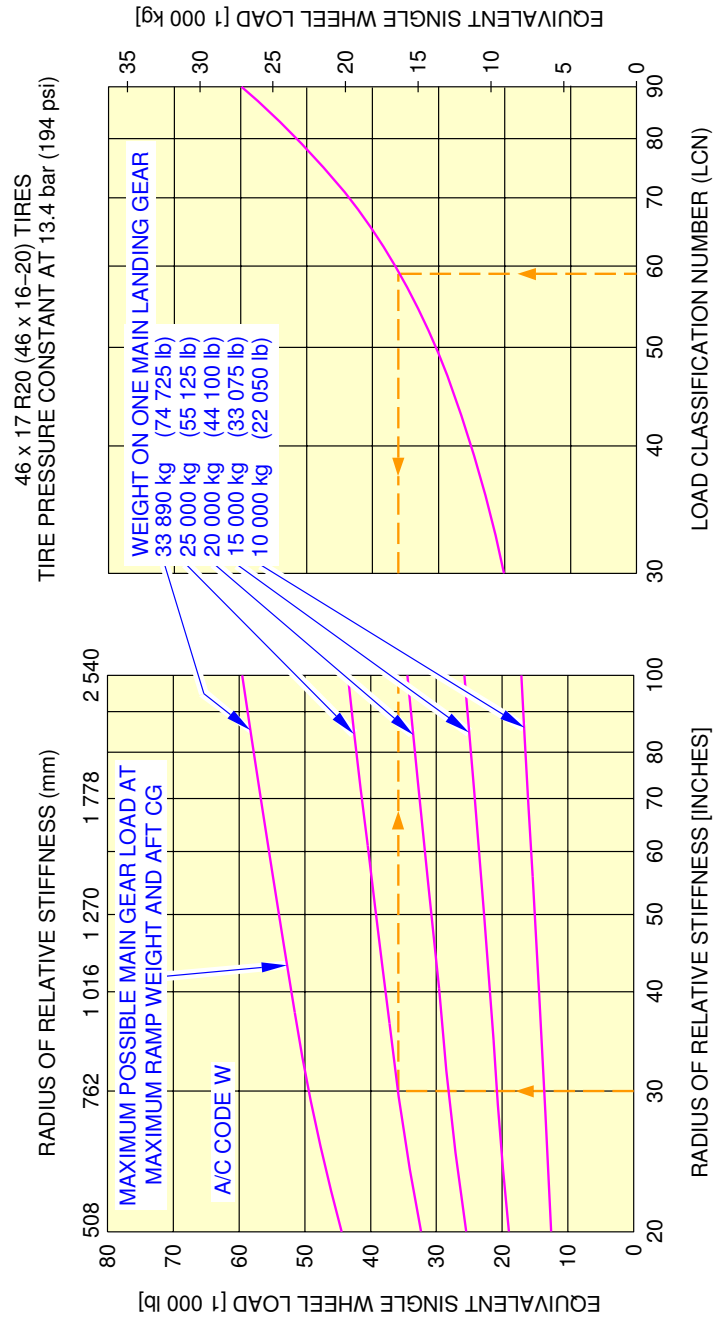
****ON A/C A319-100**



N_AC_070802_1_0600101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 20

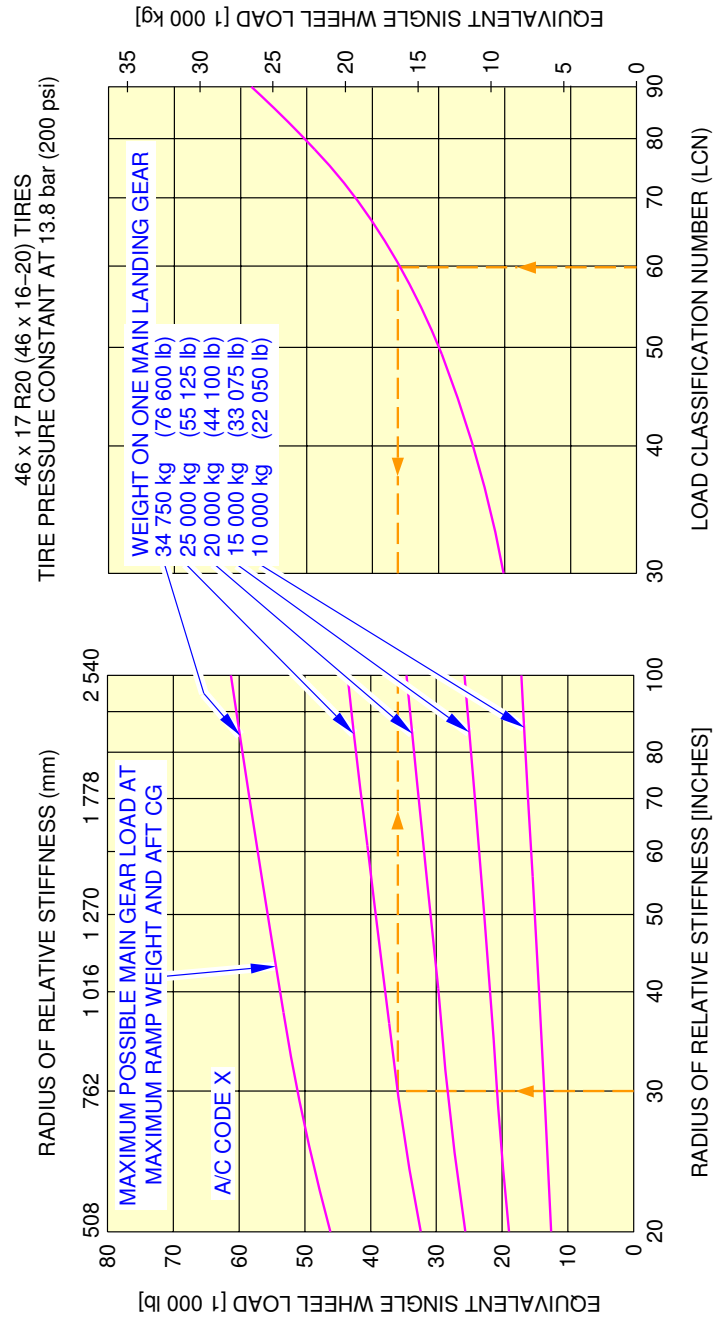
****ON A/C A319-100**



N_AC_070802_1_0610101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 21

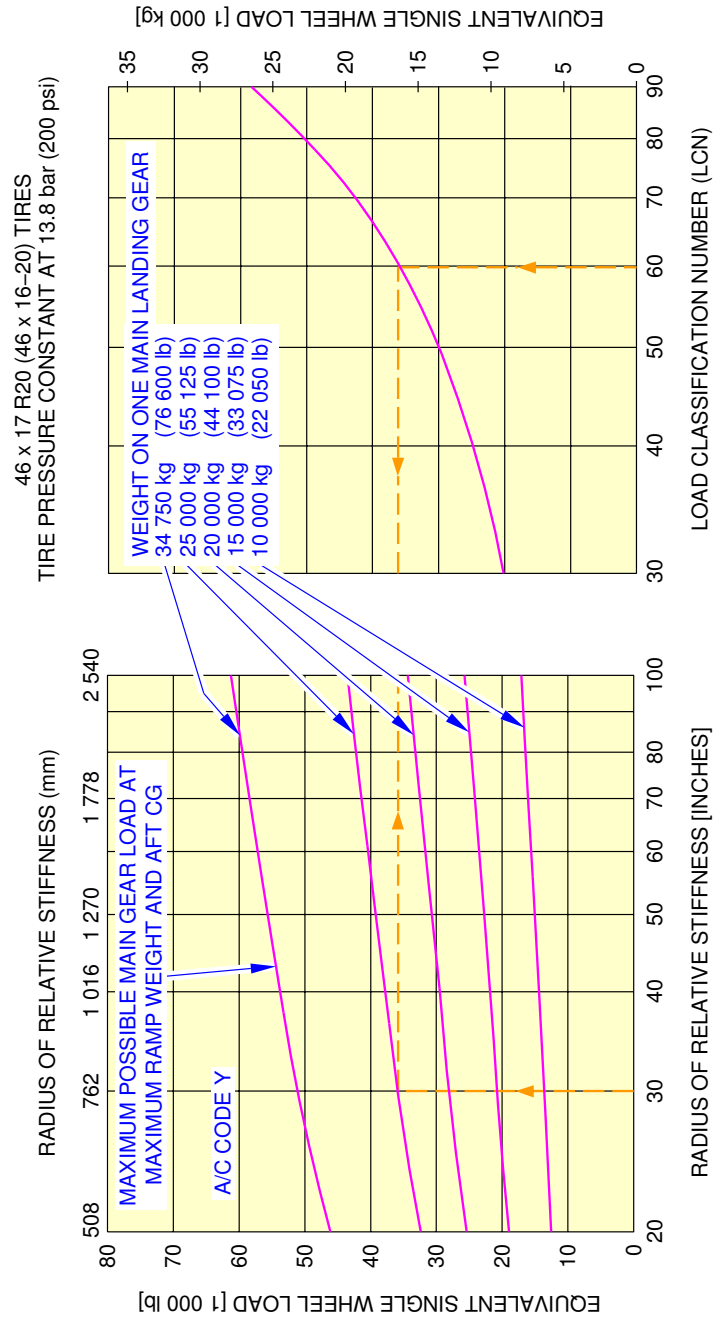
****ON A/C A319-100**



N_AC_070802_1_0620101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 22

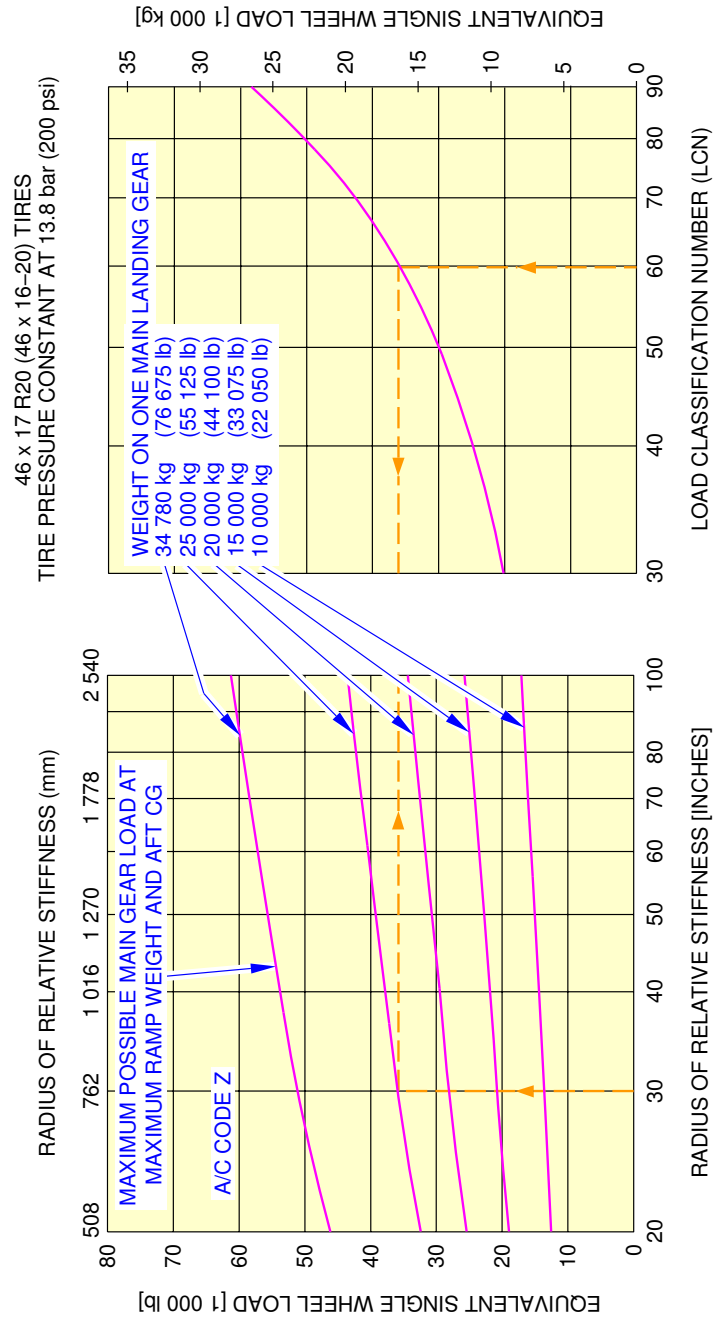
****ON A/C A319-100**



N_AC_070802_1_0630101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 23

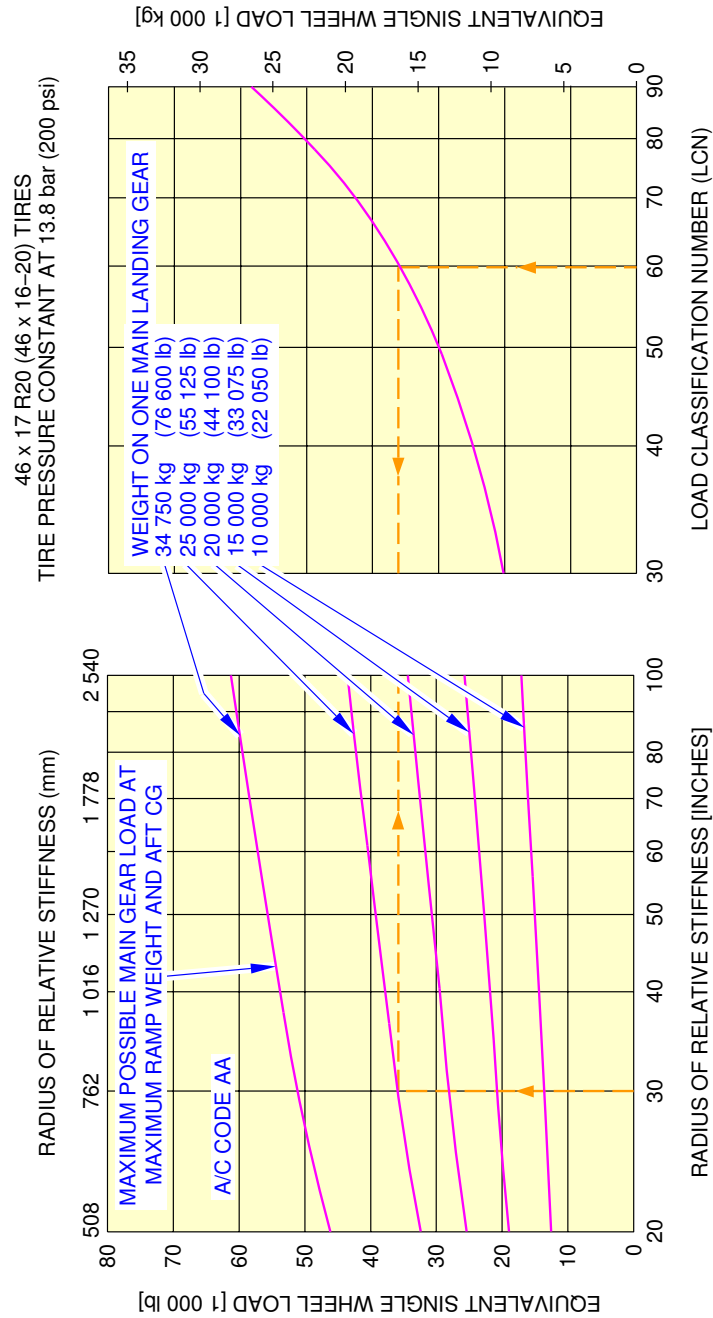
****ON A/C A319-100**



N_AC_070802_1_0640101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 24

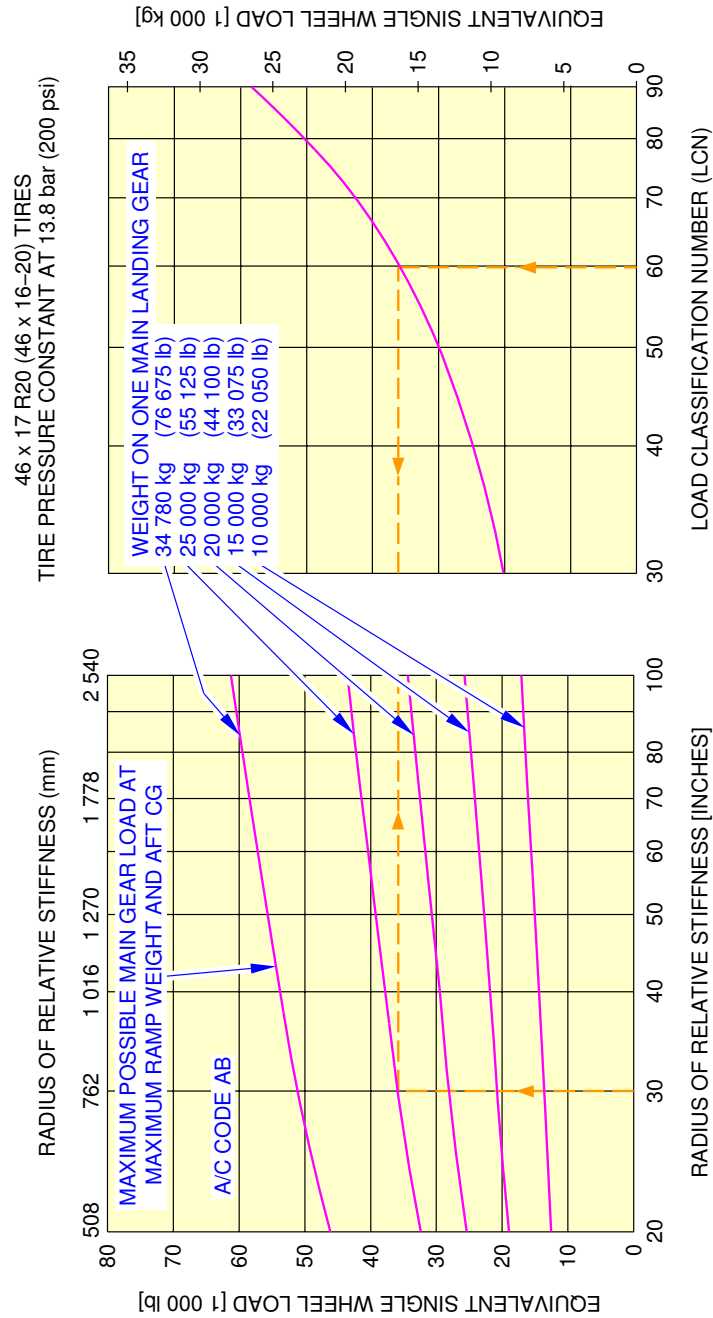
****ON A/C A319-100**



N_AC_070802_1_0650101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 25

****ON A/C A319-100**

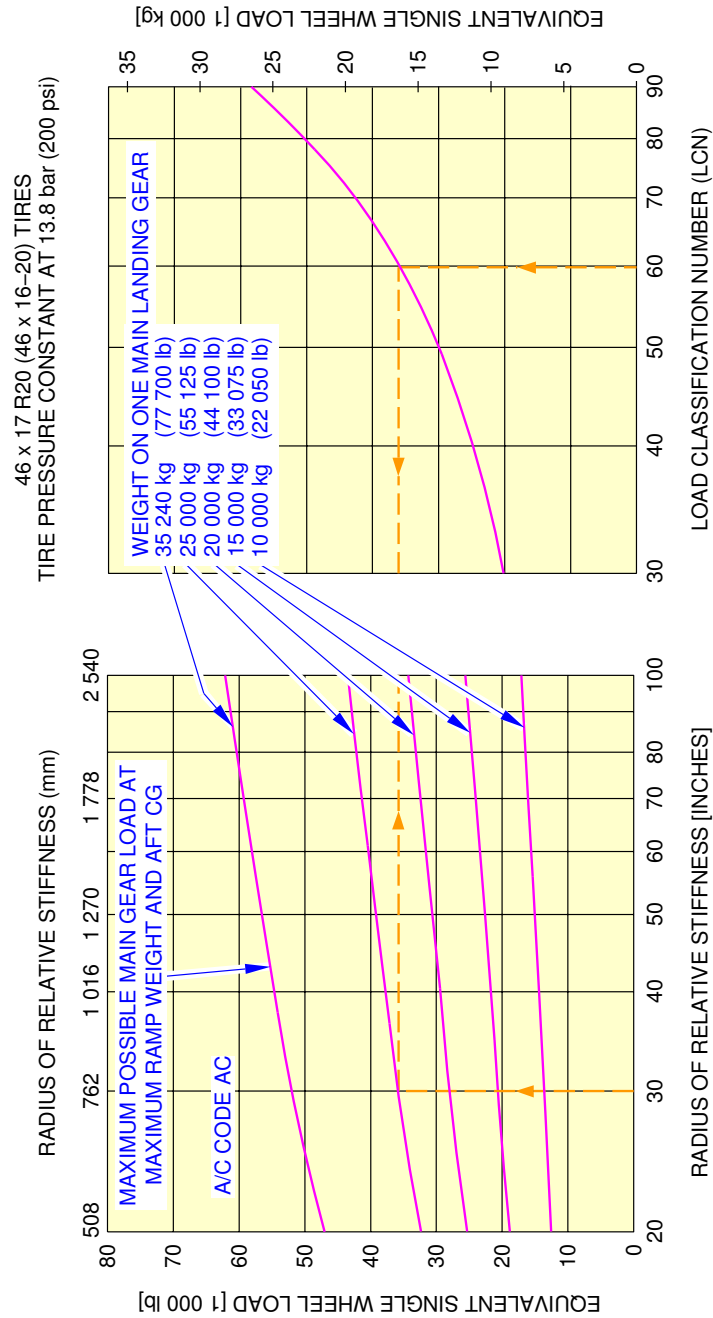


NOTE: EQUIVALENT SINGLE WHEEL LOADS ARE DERIVED BY METHODS SHOWN IN ICAO AERODROME MANUAL PART 2 PAR 4.1.3 Second Edition 1965

N_AC_070802_1_0660101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 26

****ON A/C A319-100**



N_AC_070802_1_0670101_01_00

Rigid Pavement Requirements - LCN Conversion
FIGURE 27

7-8-3 Radius of Relative Stiffness (Other values of E and L)

****ON A/C A319-100**

Radius of Relative Stiffness (Other values of "E" and "L")

1. General

The table of Section 7-8-1, Radius of Relative Stiffness, presents "L" values based on Young's Modulus (E) of 4 000 000 psi and Poisson's Ratio (μ) of 0.15.

To find "L" values based on other values of "E" and " μ ", see Section 7-8-4.

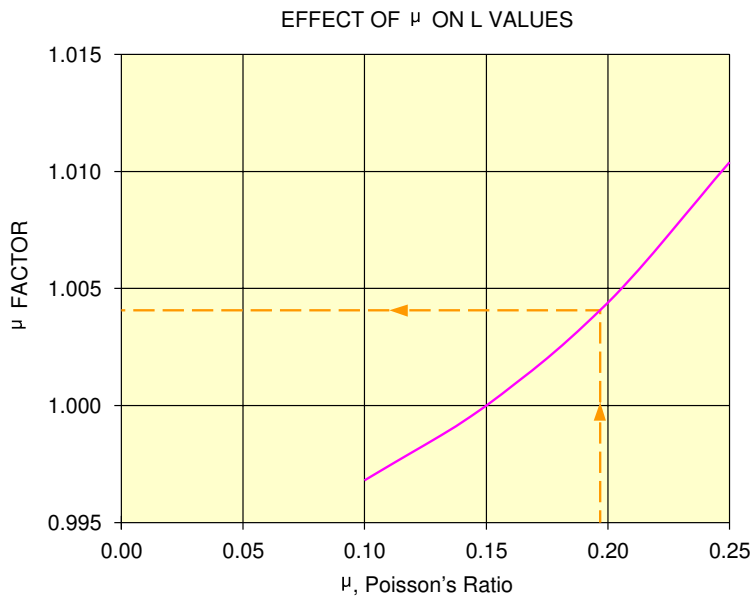
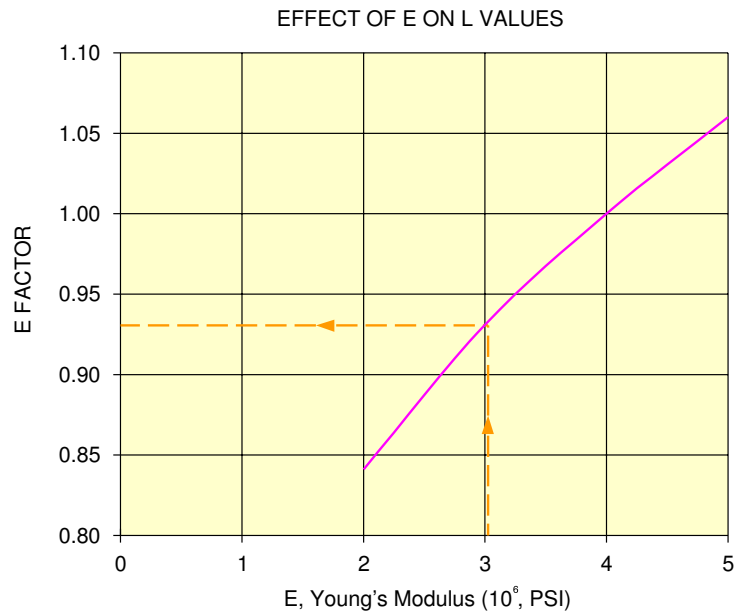
For example, to find an "L" value based on an "E" of 3 000 000 psi, the "E" factor of 0.931 is multiplied by the "L" value found in the table of Section 7-8-1.

The effect of variations of " μ " on the "L" value is treated in a similar manner.

7-8-4 Radius of Relative Stiffness****ON A/C A319-100**Radius of Relative Stiffness

1. This section gives Radius of Relative Stiffness.

****ON A/C A319-100**



NOTE: BOTH CURVES ON THIS PAGE ARE USED TO ADJUST THE L VALUES OF TABLE 7-8-1

N_AC_070804_1_0020101_01_02

Radius of Relative Stiffness
(Effect E and μ on "L" values)

FIGURE 1

7-9-0 ACN/PCN Reporting System

****ON A/C A319-100**

ACN/PCN Reporting System

1. General

To determine the ACN of an aircraft on flexible or rigid pavement, both the aircraft gross weight and the subgrade strength must be known.

In the example shown in Section 7-9-1 Aircraft Classification Number – Flexible Pavement, A/C Code C, for an aircraft gross weight of 55 000 kg (121 250 lb) and low subgrade strength (code C), the ACN for the flexible pavement is 29.9.

In the example shown in Section 7-9-2 Aircraft Classification Number – Rigid Pavement, A/C Code C, for an aircraft gross weight of 55 000 kg (121 250 lb) and medium subgrade strength (code B), the ACN for the rigid pavement is 30.8.

NOTE : An aircraft with an ACN equal to or less than the reported PCN can operate on that pavement, subject to any limitation on the tire pressure.
(Ref.: ICAO Aerodrome Design Manual Part 3, Chapter 1, Second Edition 1983).

7-9-1 Aircraft Classification Number - Flexible Pavement****ON A/C A319-100**Aircraft Classification Number - Flexible Pavement

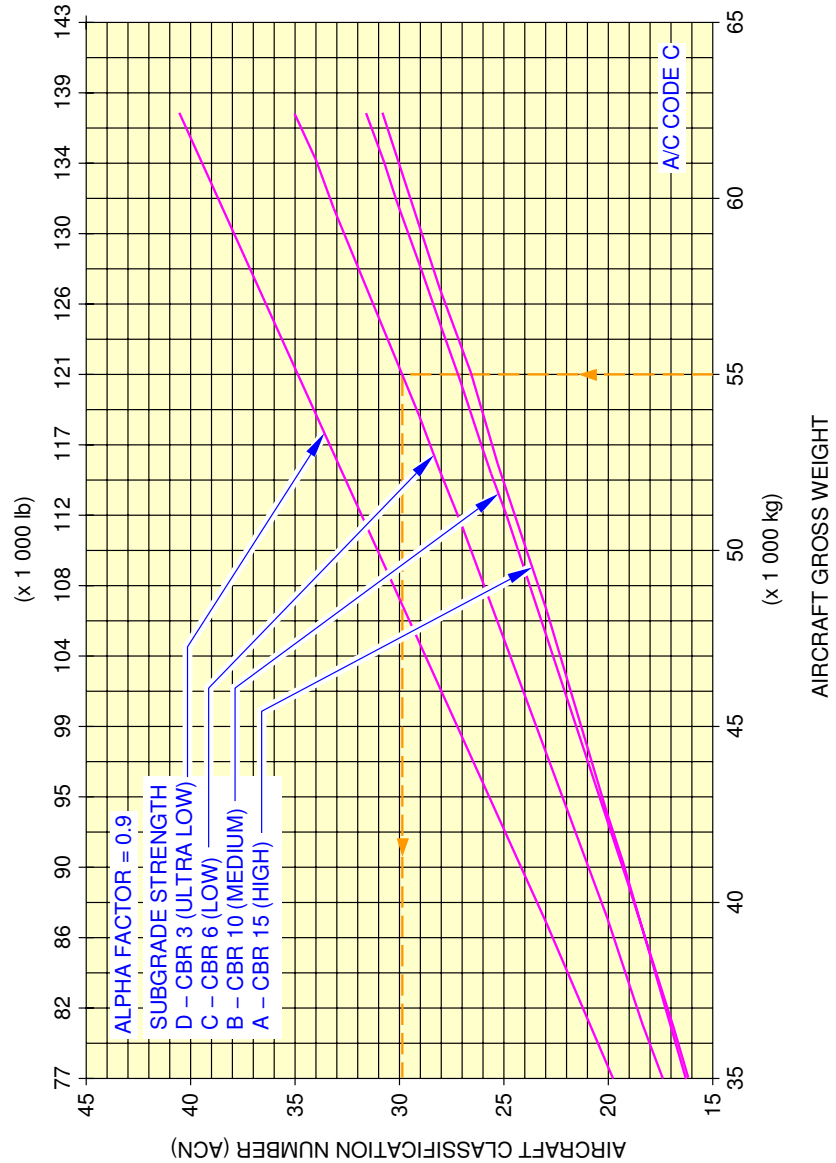
1. This section gives the Aircraft Classification Number - Flexible Pavement.

I NOTE : For A/C Code definition, refer to chapter 7-1-0.

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 39 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE C

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)



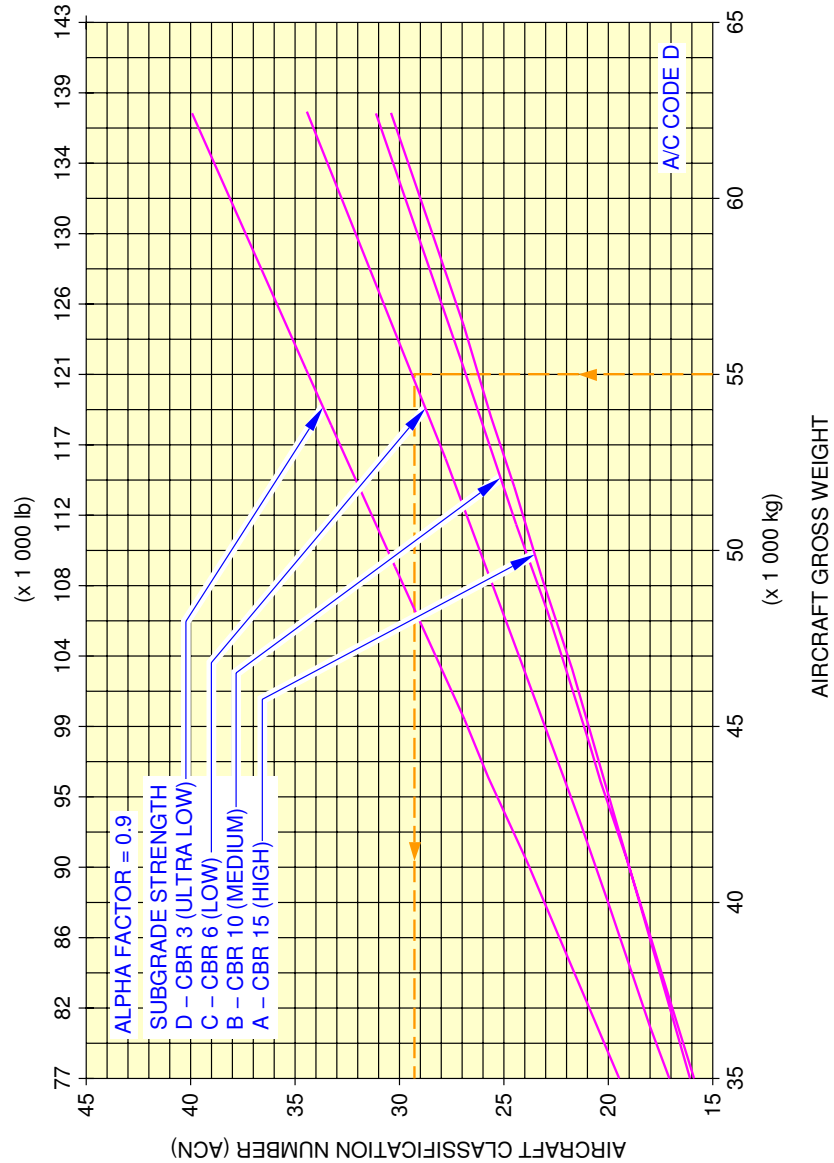
N_AC_070901_1_0510101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 1

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE D

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)



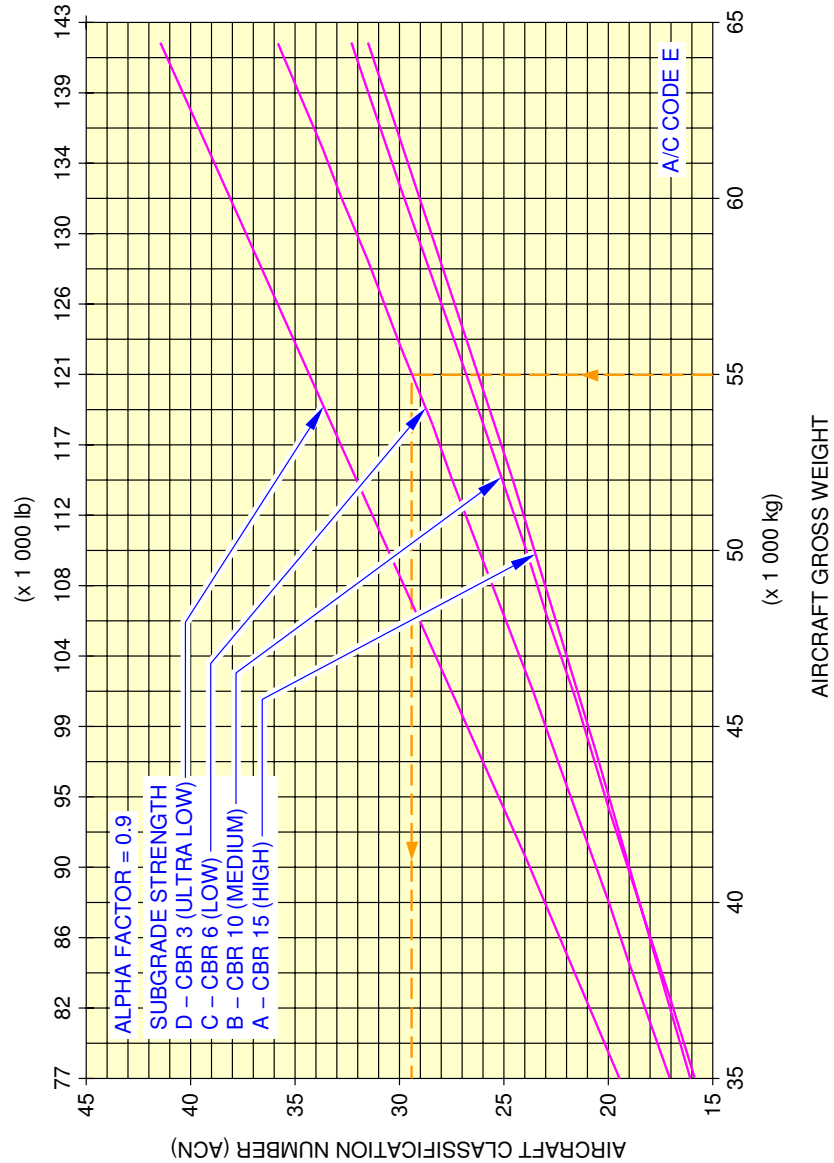
N_AC_070901_1_0520101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 2

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE E

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)



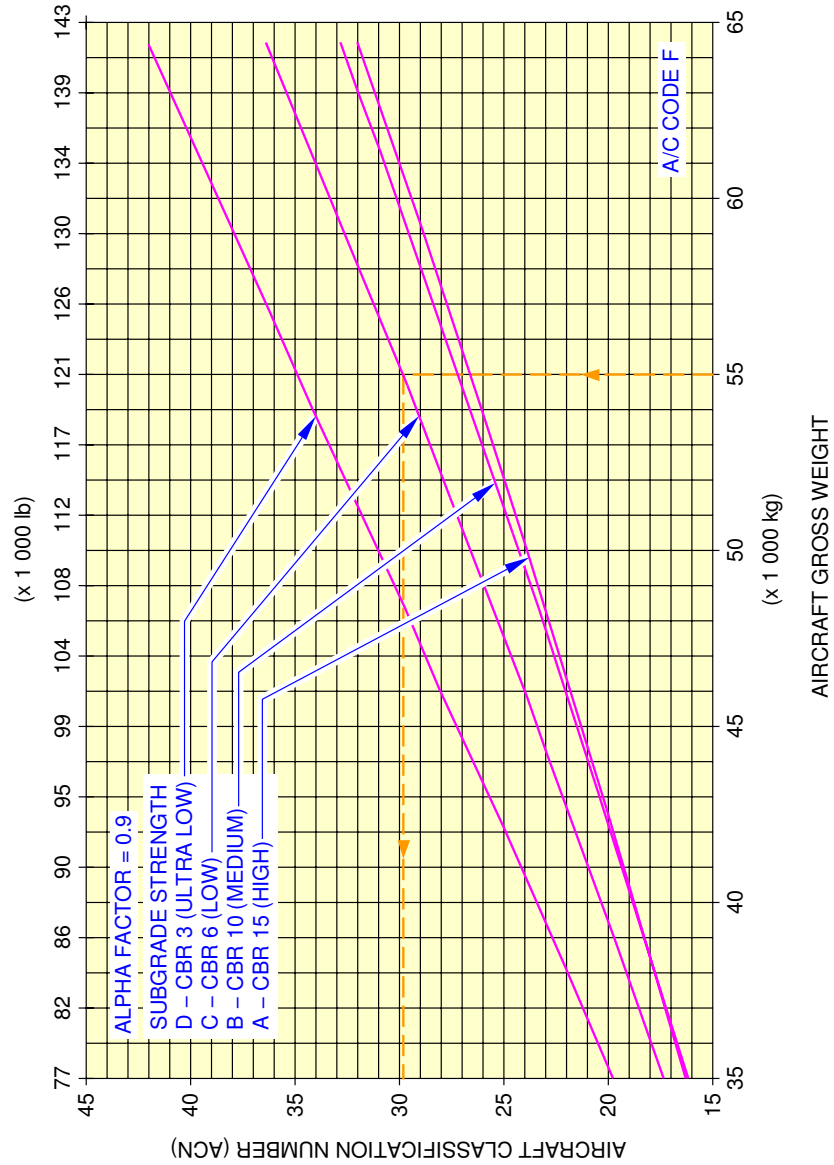
N_AC_070901_1_0530101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 3

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 39 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE F

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)



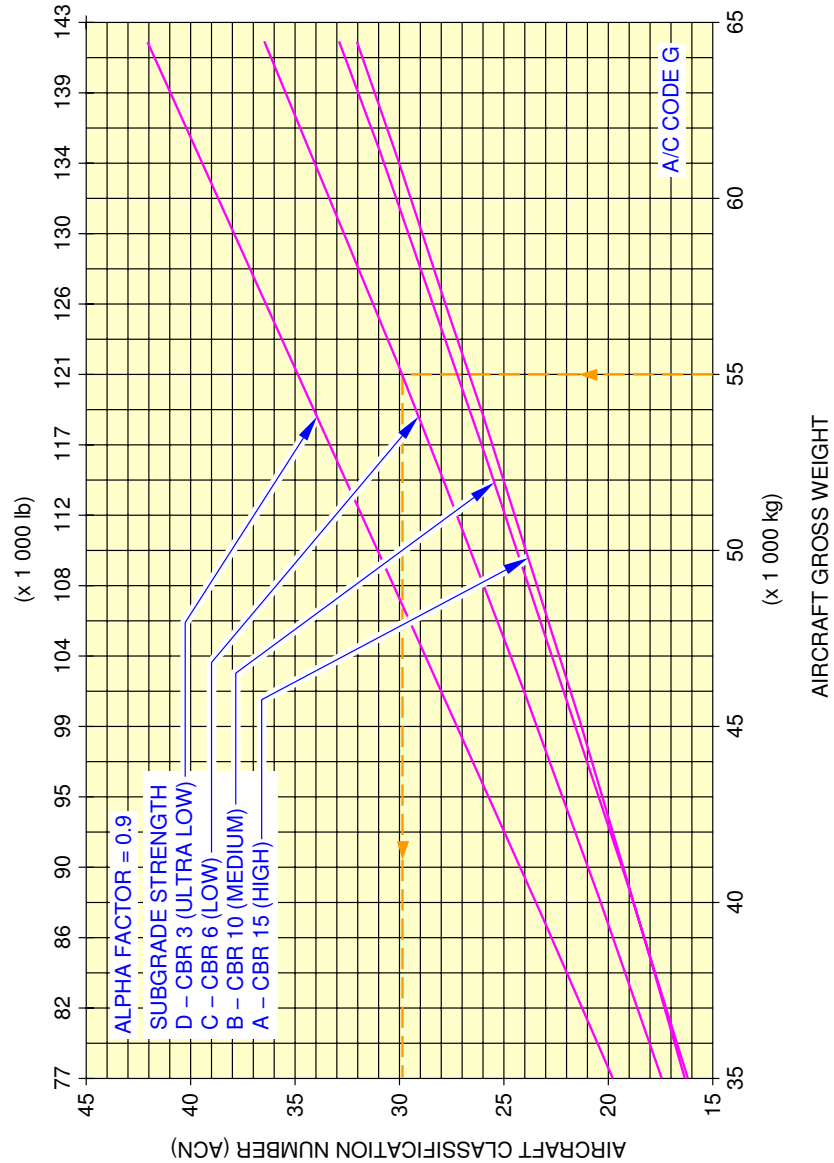
N_AC_070901_1_0540101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 4

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 39 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE G

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)



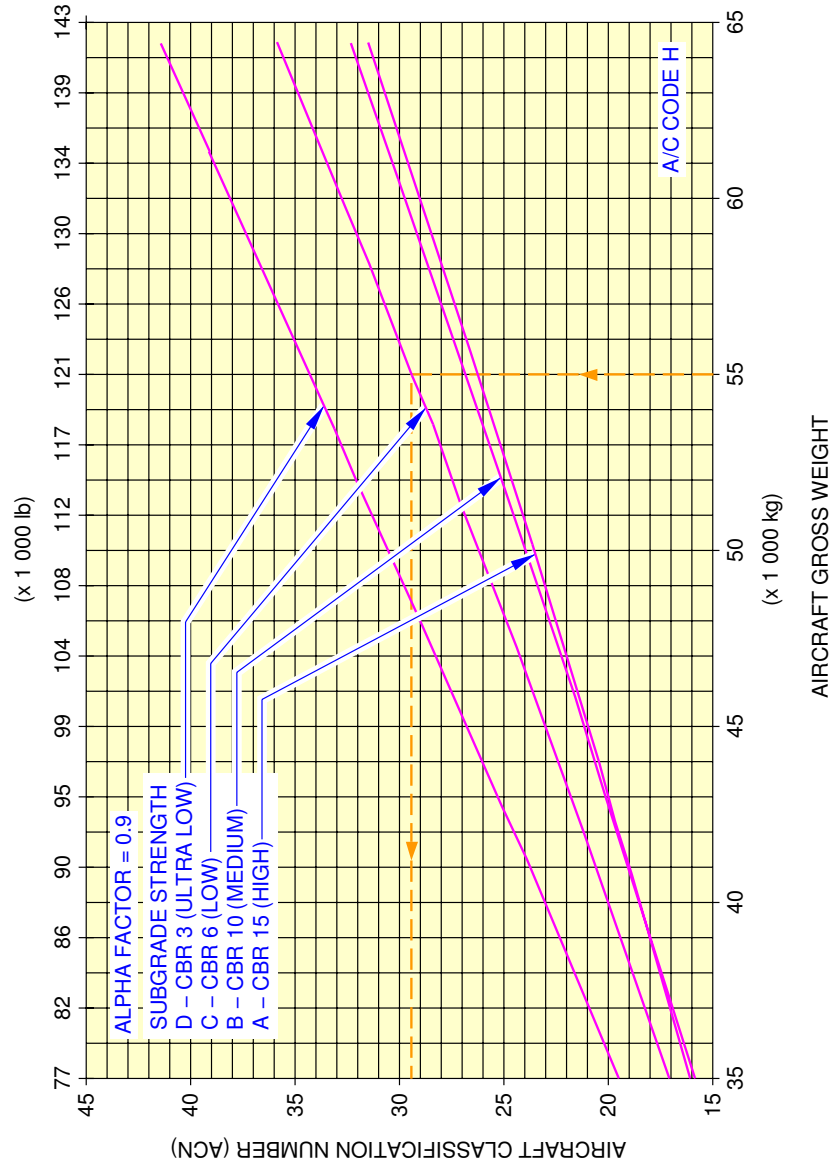
N_AC_070901_1_0550101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 5

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE H

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)



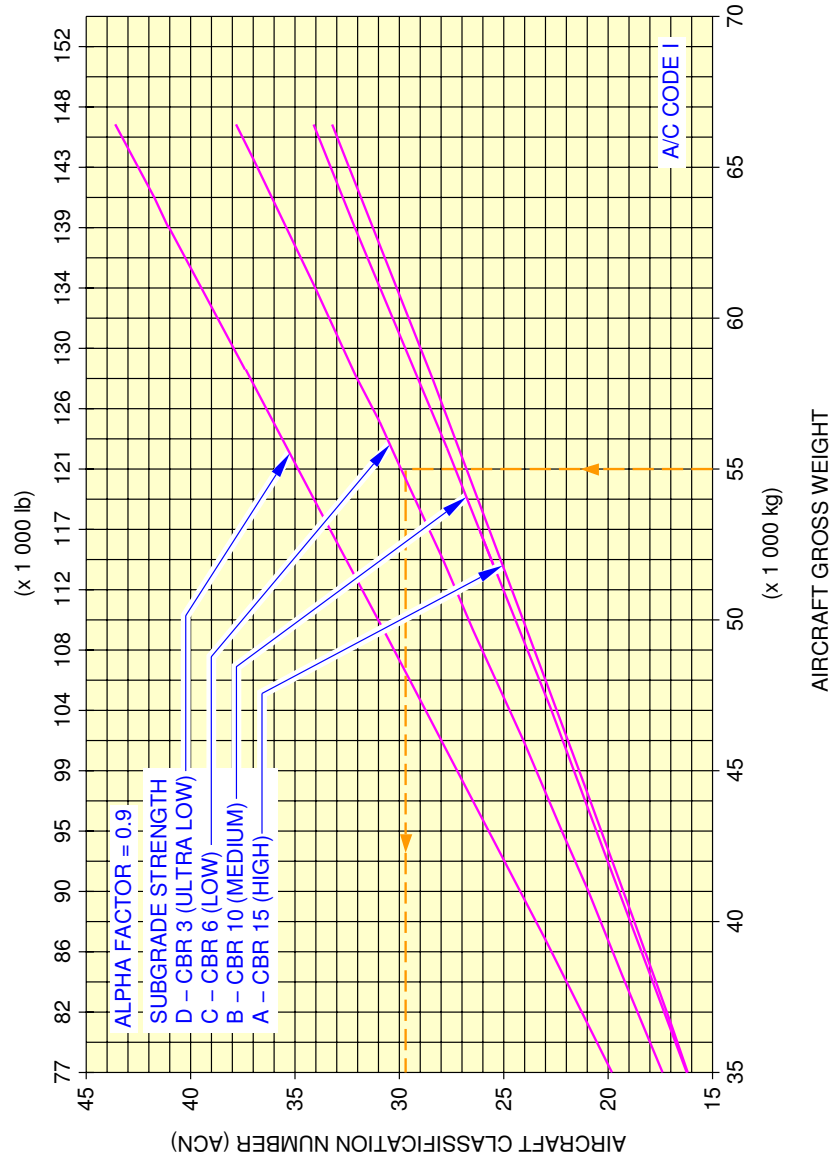
N_AC_070901_1_0560101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 6

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 38.8 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE I

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



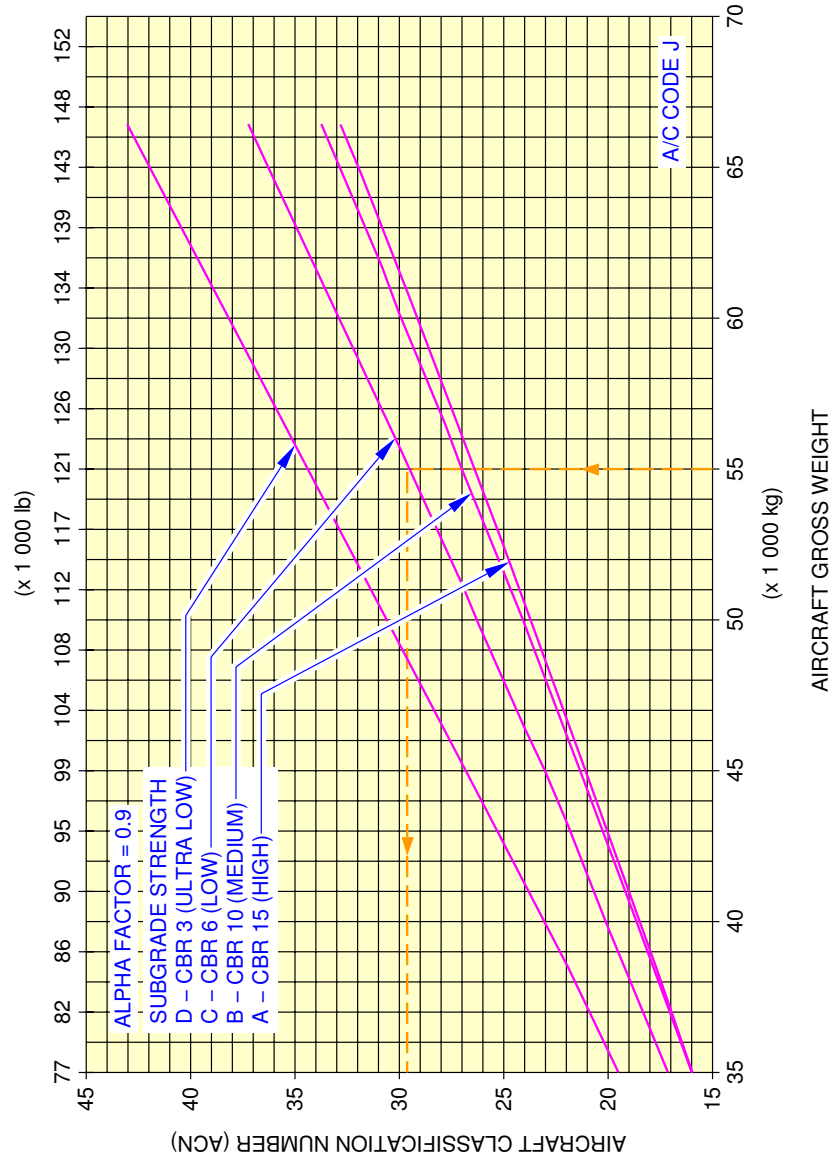
N_AC_070901_1_0570101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 7

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE J

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



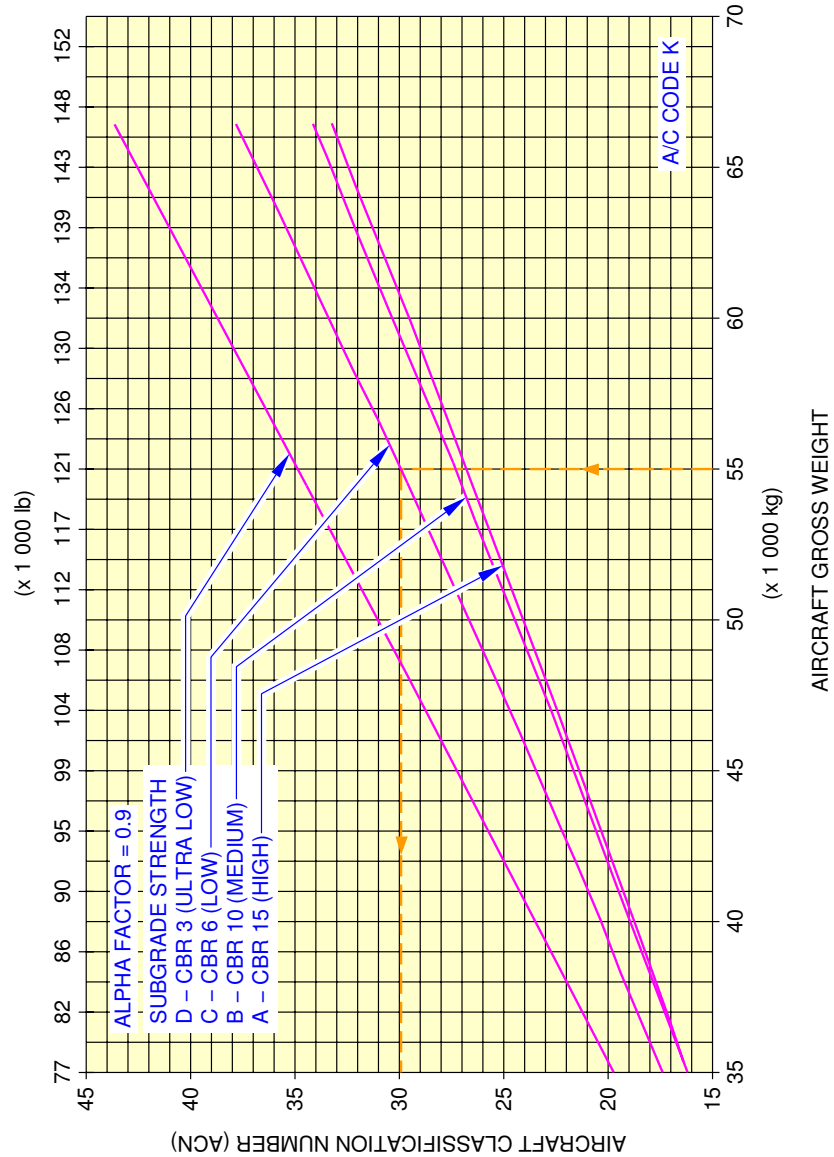
N_AC_070901_1_0580101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 8

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 38.8 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE K

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



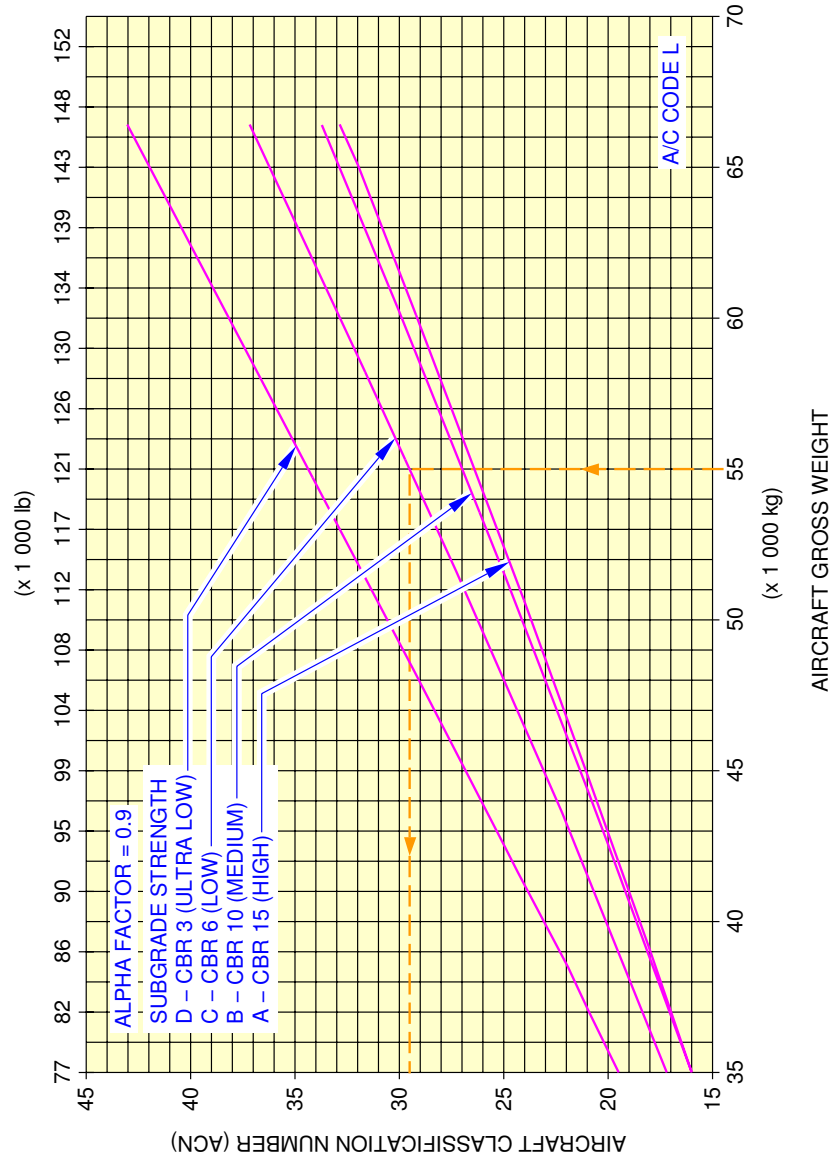
N_AC_070901_1_0590101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 9

**ON A/C A319-100

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE L

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



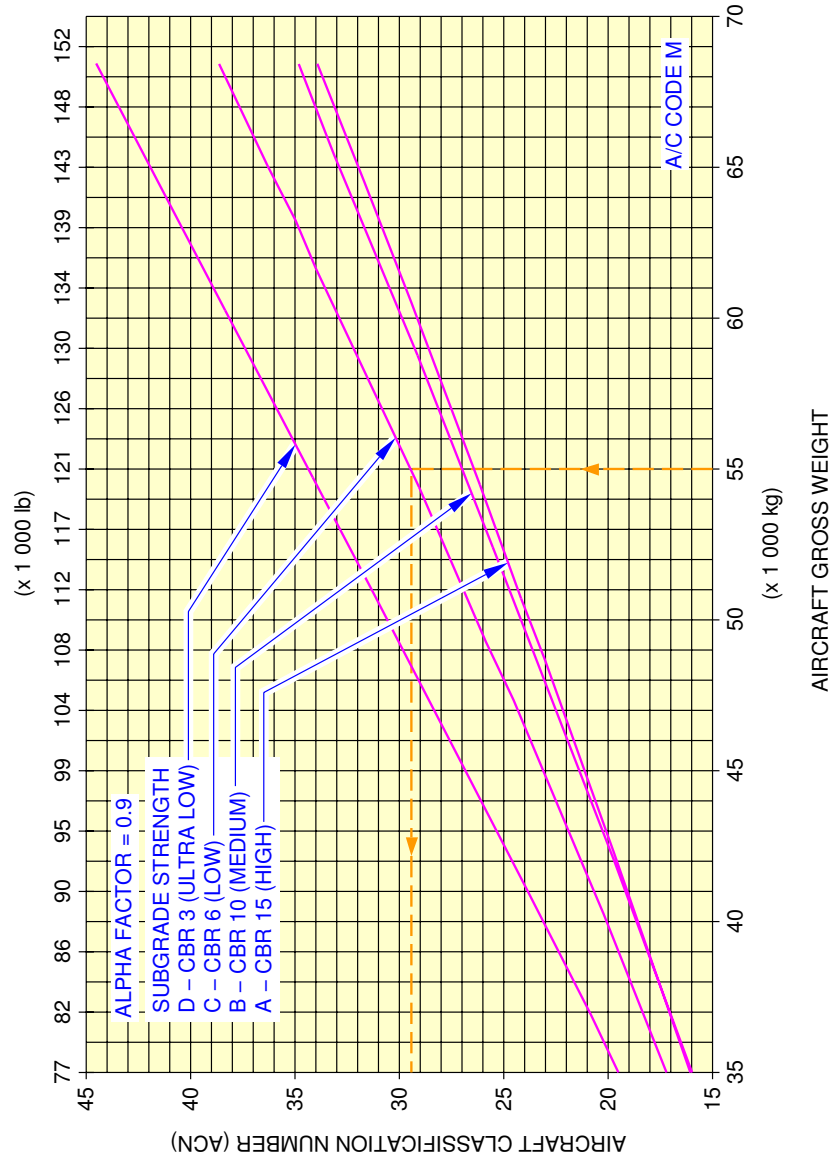
N_AC_070901_1_0600101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 10

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE M

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



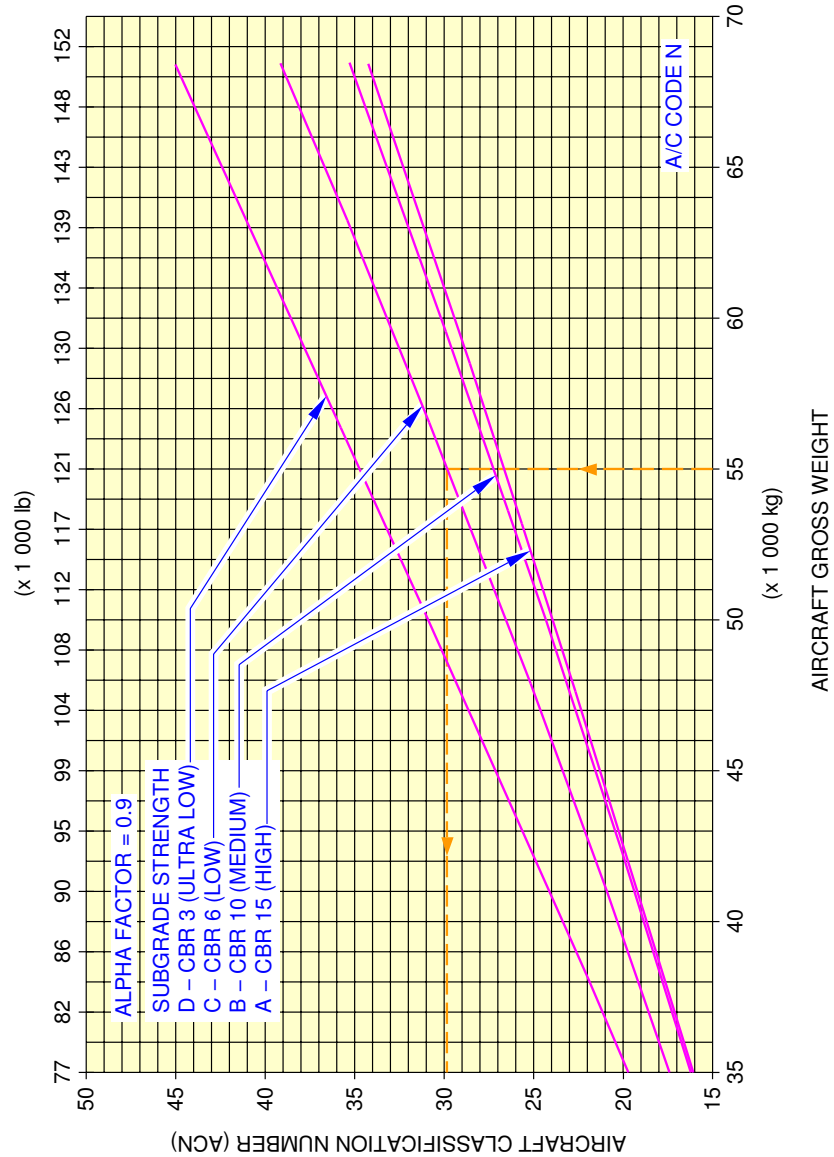
N_AC_070901_1_0610101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 11

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 38.1 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE N

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



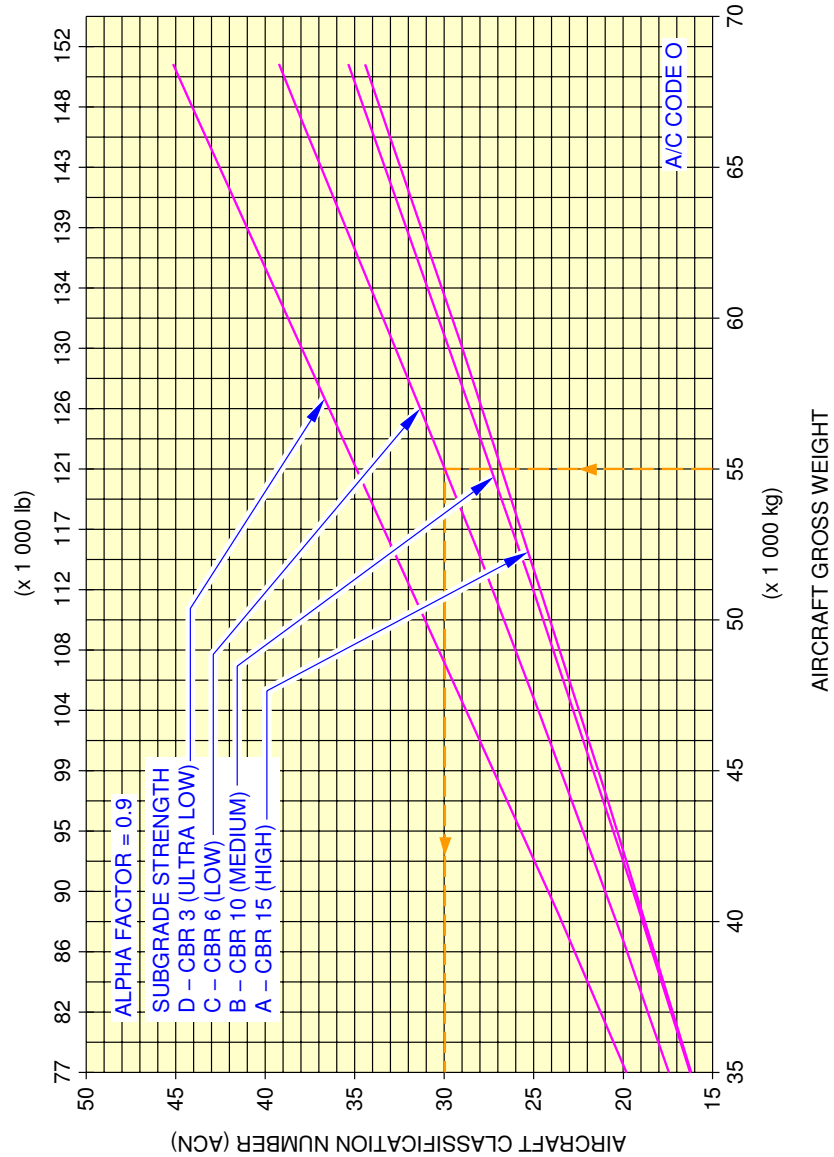
N_AC_070901_1_0620101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 12

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
ON PAVEMENT - A/C CODE O

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



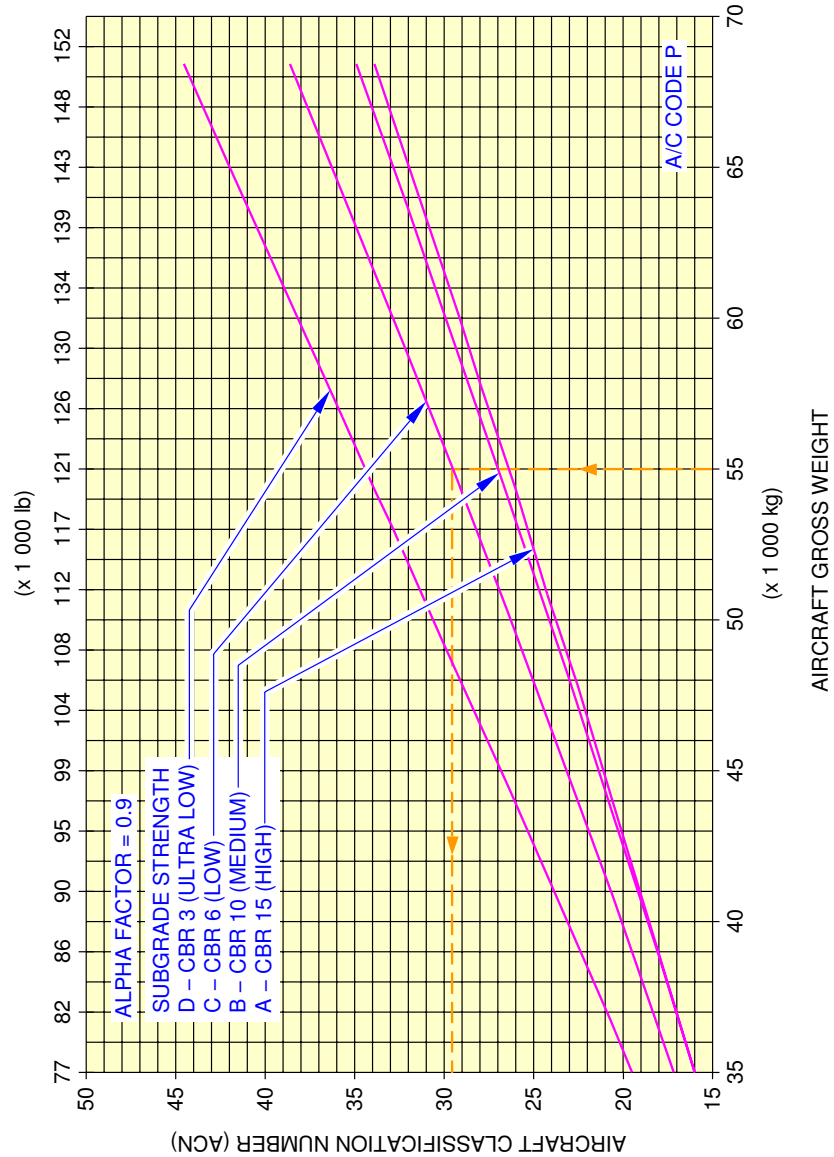
N_AC_070901_1_0630101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 13

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 38.1 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE P

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



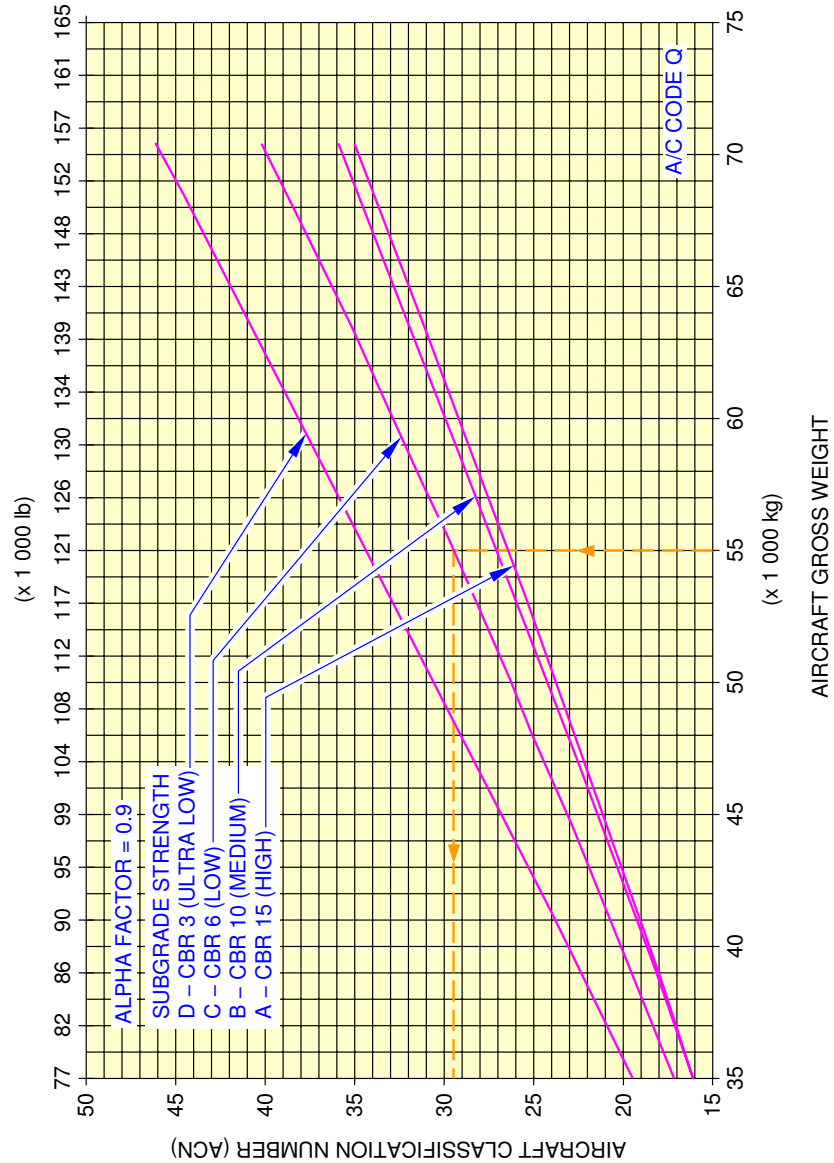
N_AC_070901_1_0640101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 14

**ON A/C A319-100

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE Q

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)



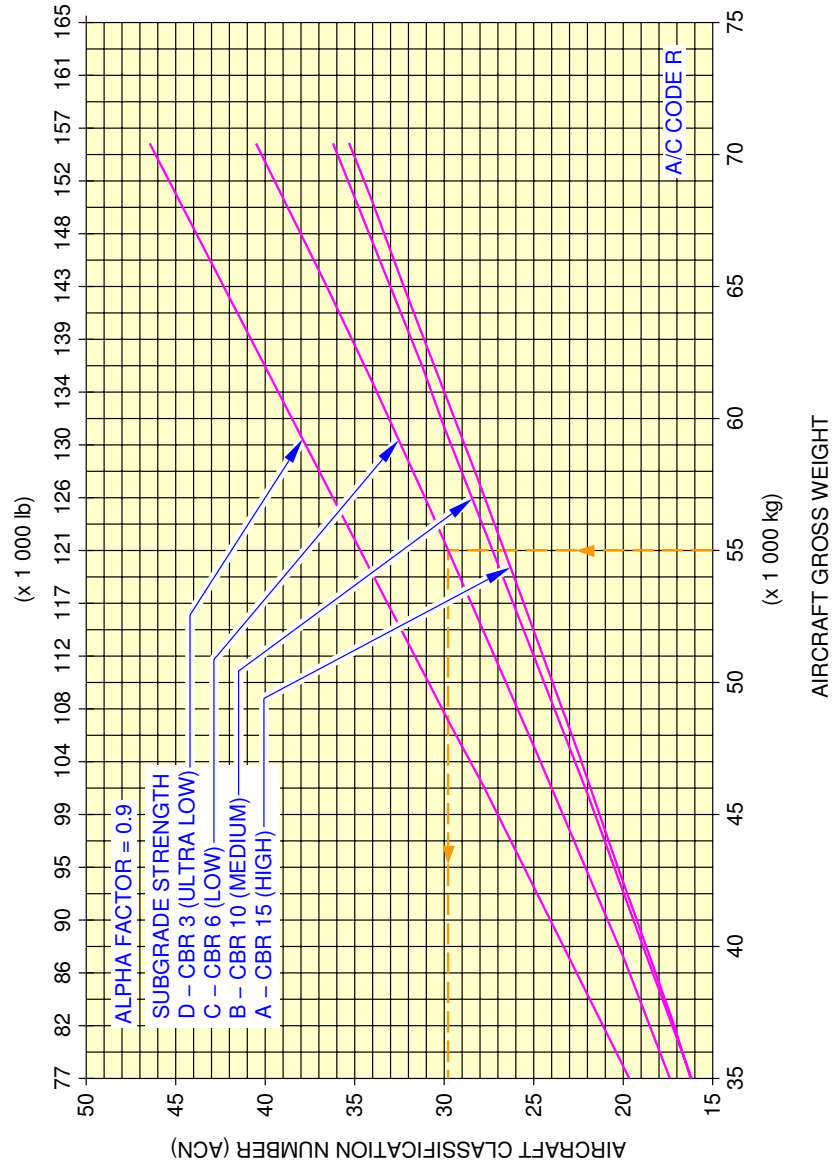
N_AC_070901_1_0650101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 15

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 37.5 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE R

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)



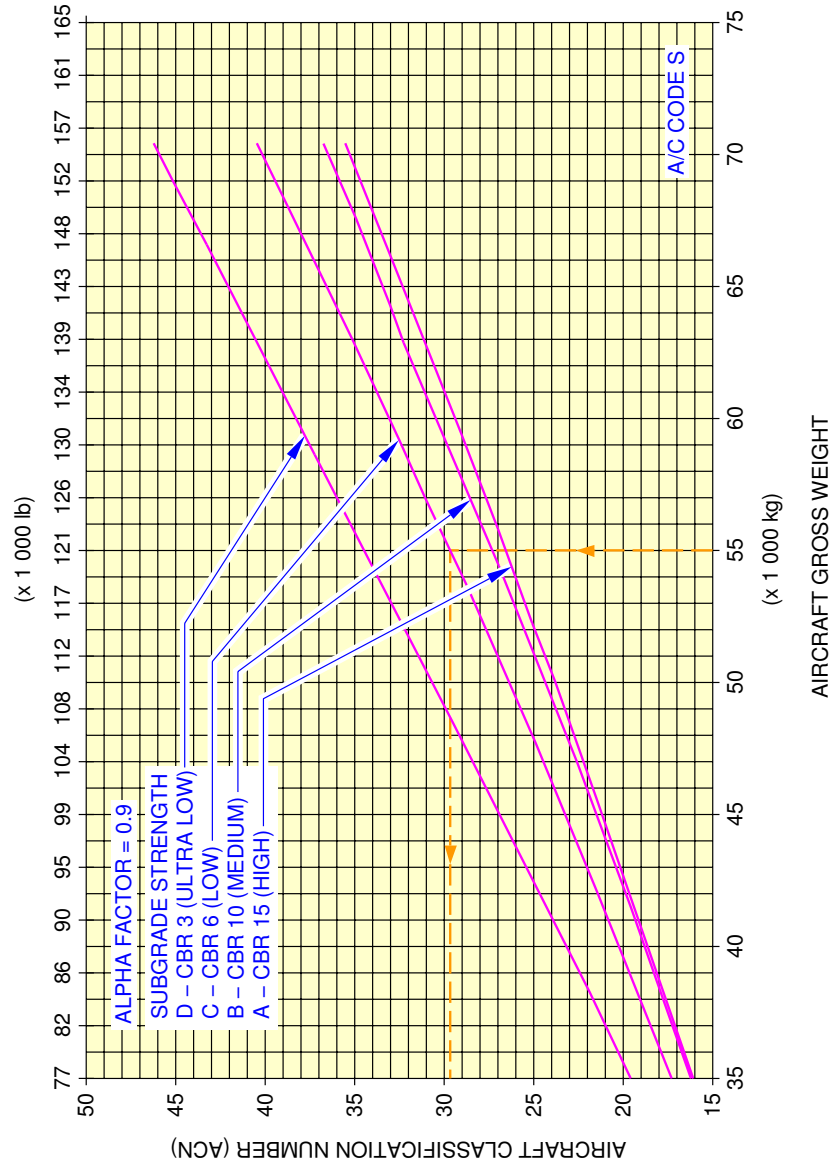
N_AC_070901_1_0660101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 16

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE S

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



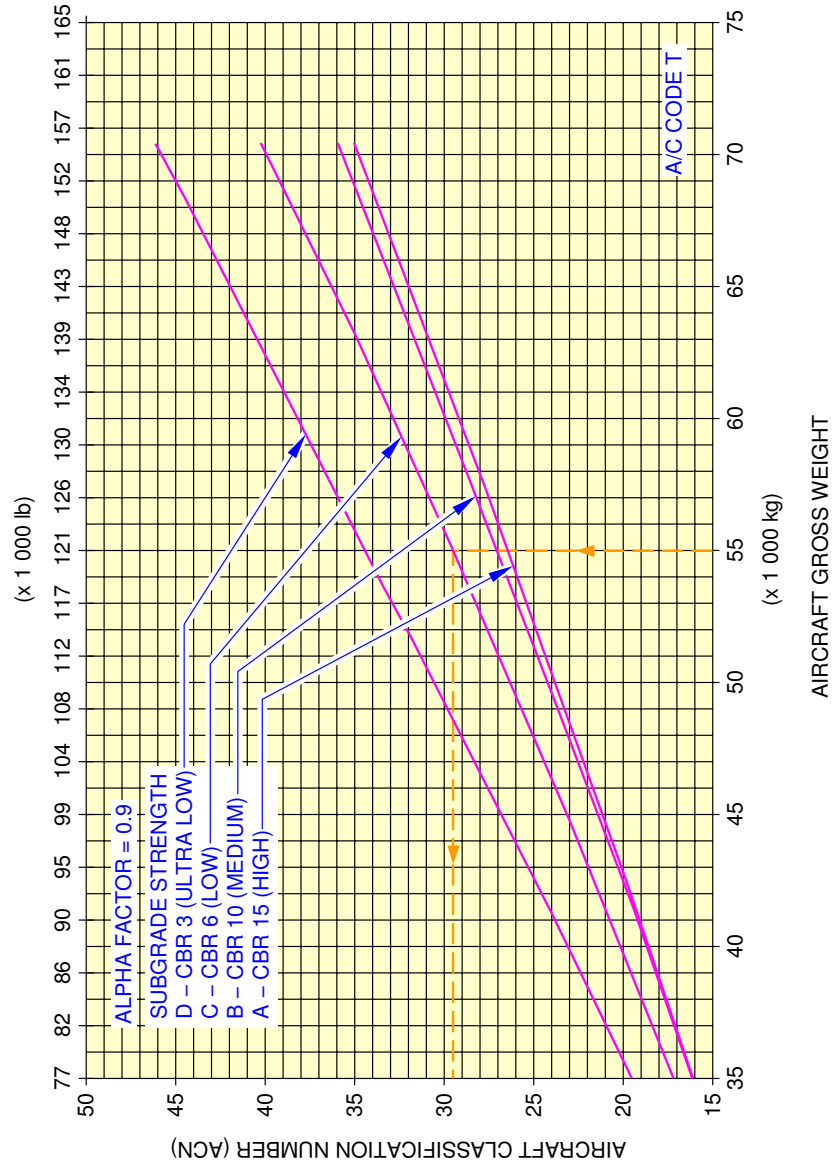
N_AC_070901_1_0670101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 17

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE T

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)



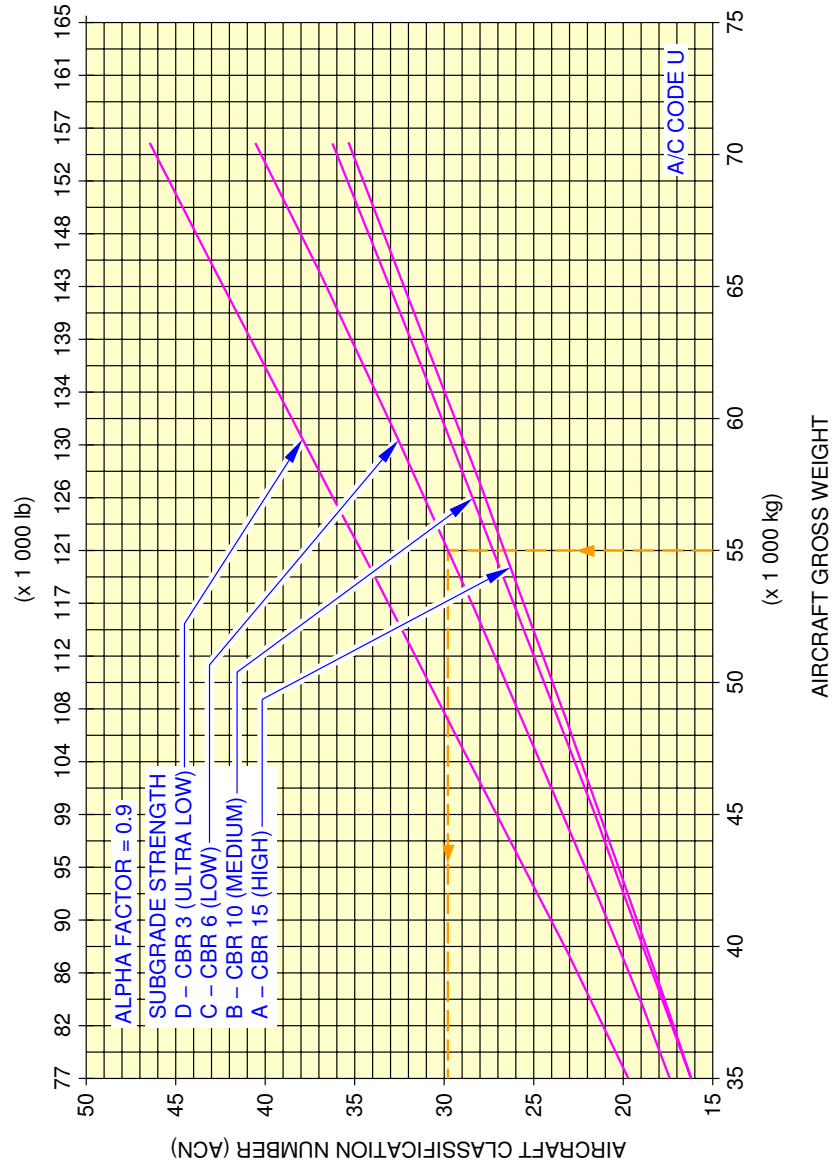
N_AC_070901_1_0680101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 18

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 37.5 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE U

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)



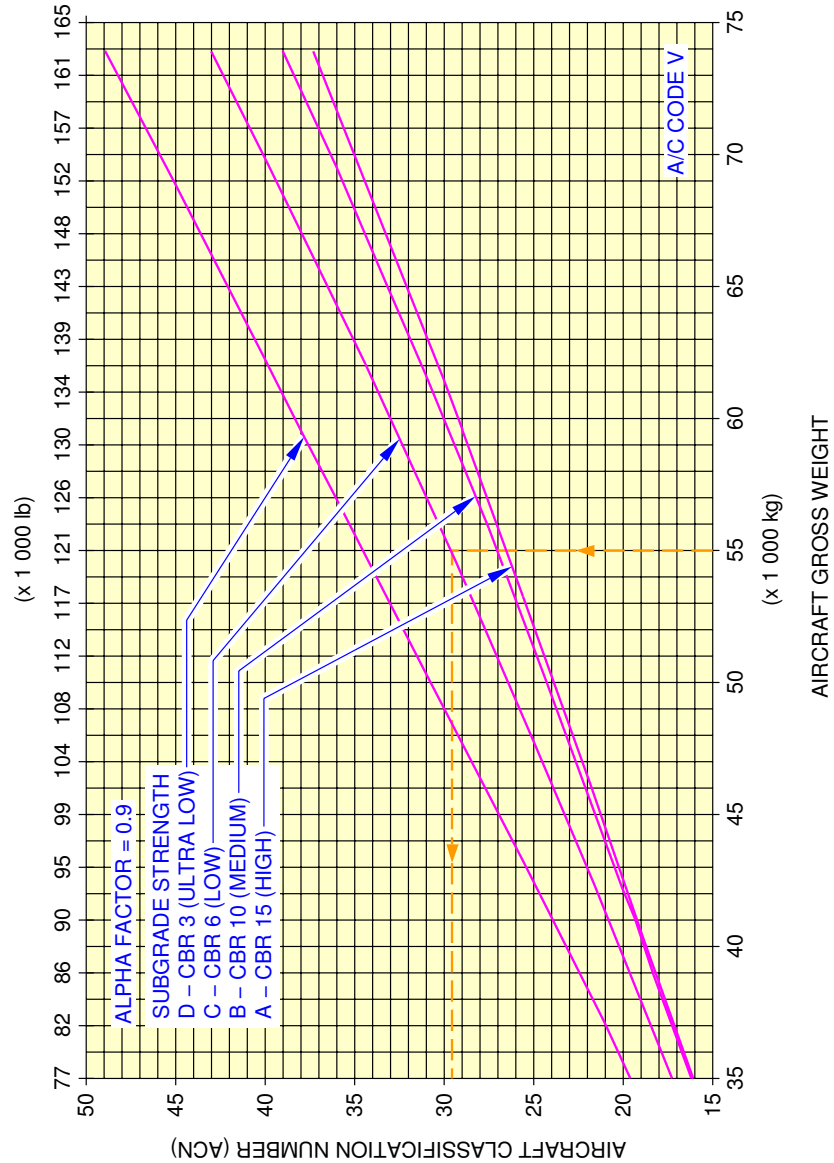
N_AC_070901_1_0690101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 19

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36.52 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE V

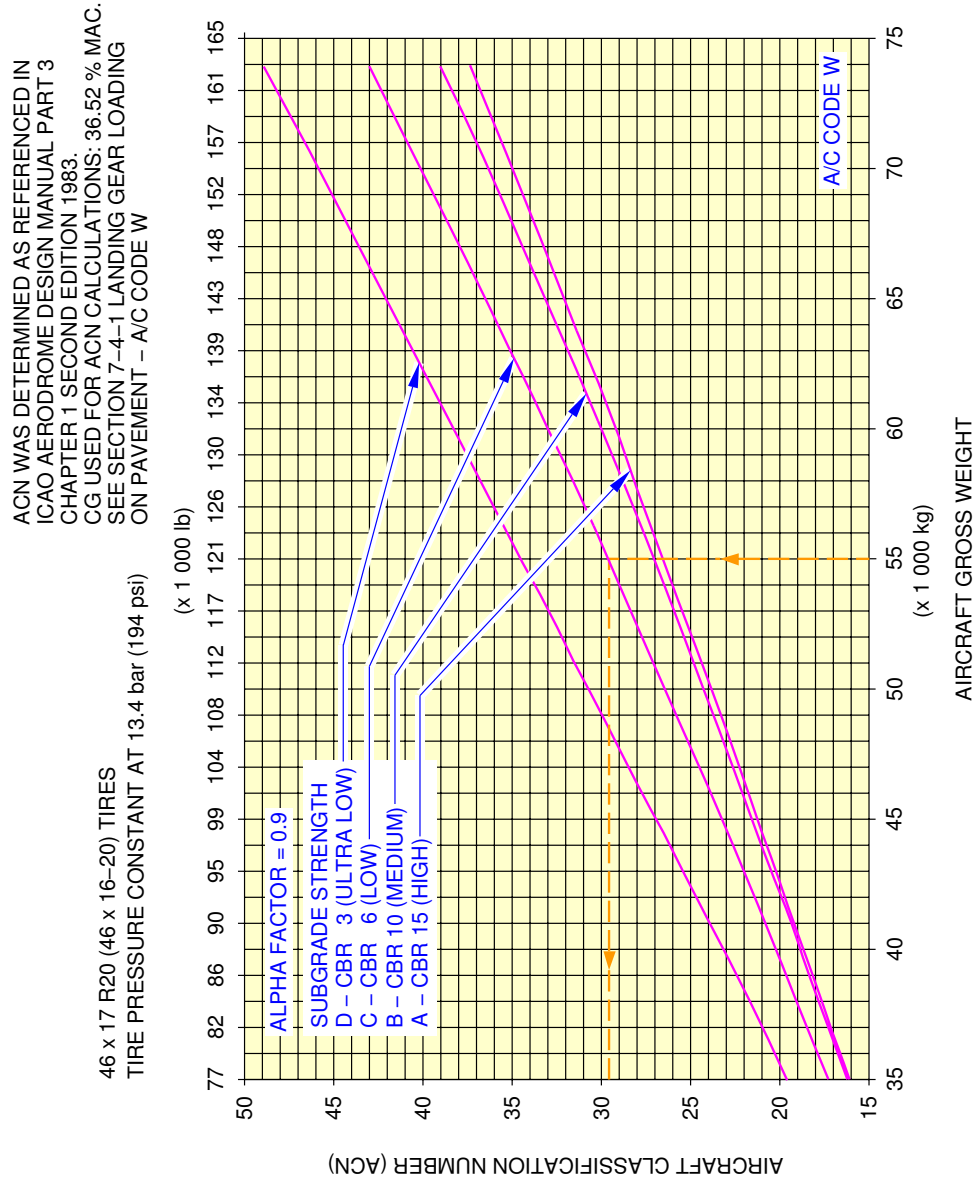
46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.4 bar (194 psi)



N_AC_070901_1_0700101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 20

**ON A/C A319-100



N_AC_070901_1_0710101_01_00

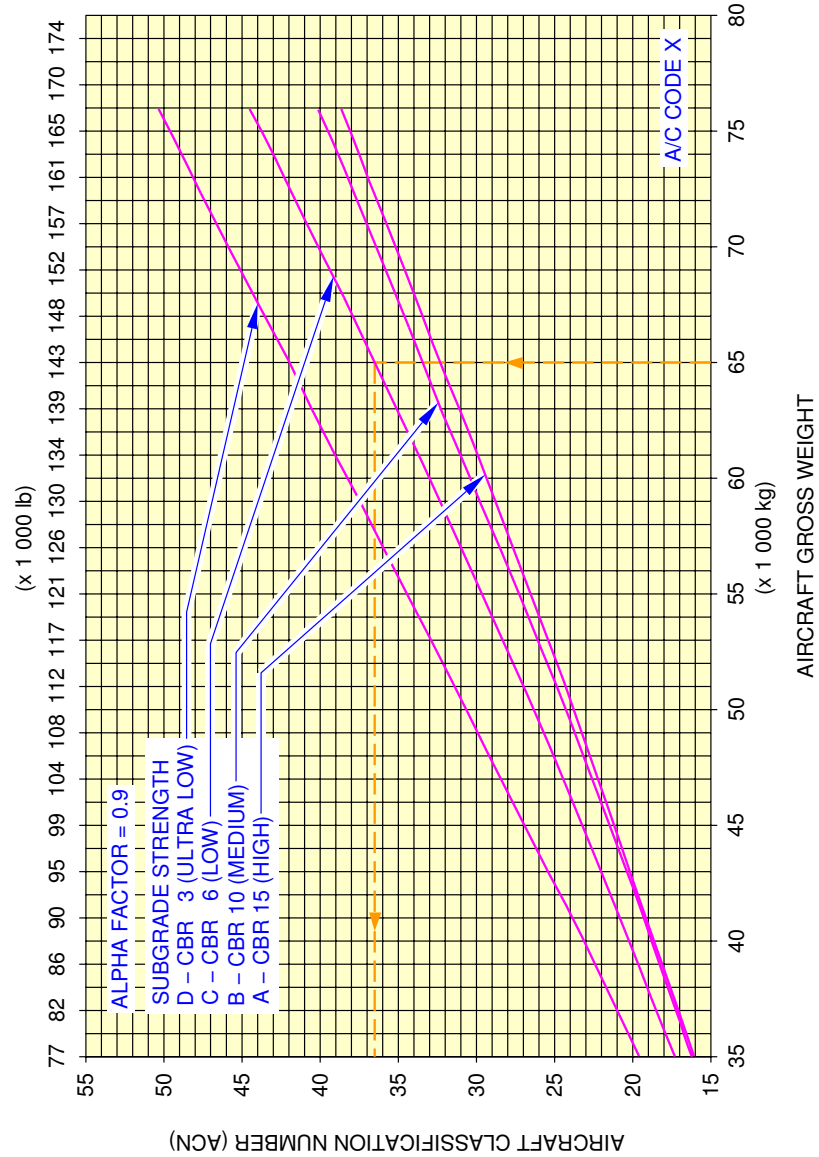
Aircraft Classification Number – Flexible Pavement
FIGURE 21

**ON A/C A319-100

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE X

46 x 17 R20 (46 x 16-20) TIRES

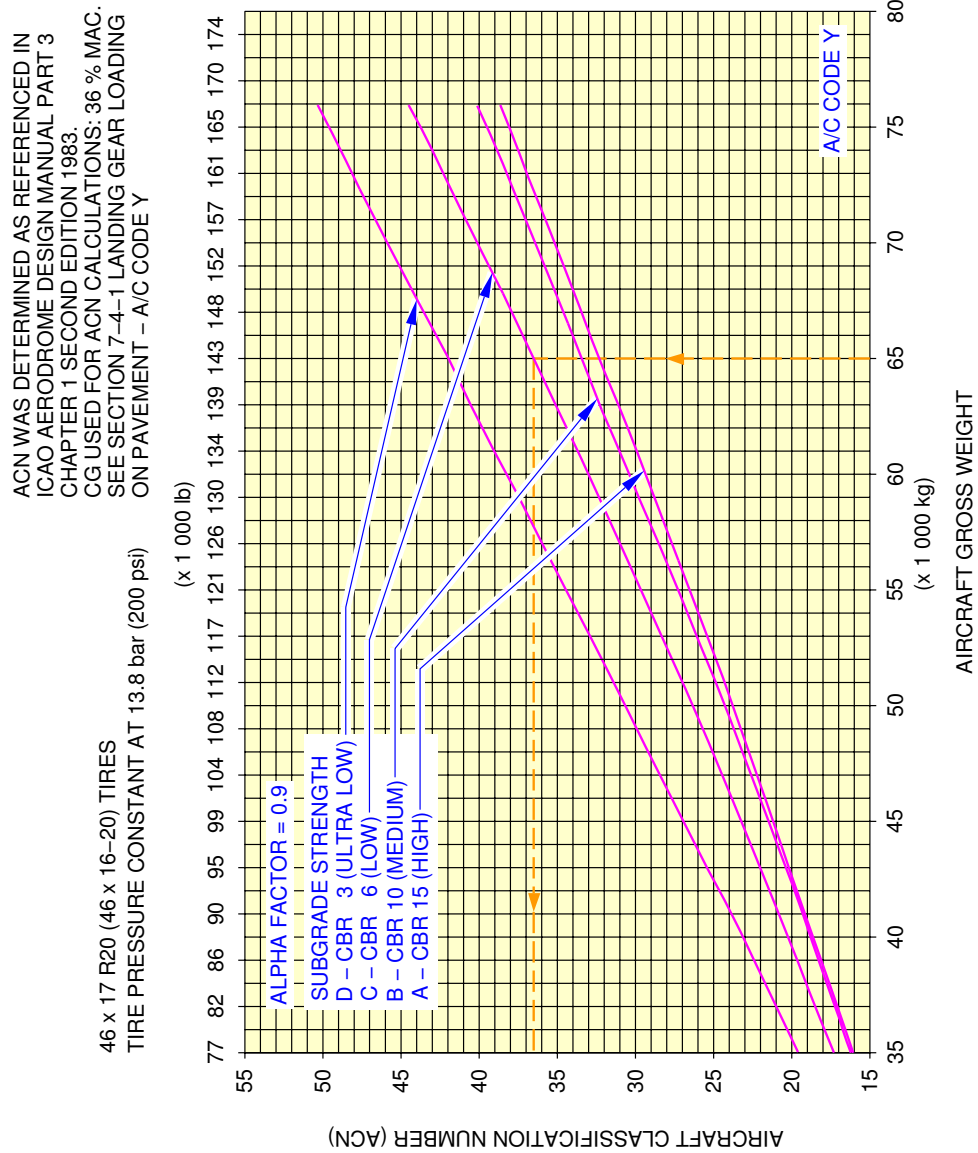
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



N_AC_070901_1_0720101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 22

**ON A/C A319-100



N_AC_070901_1_0730101_01_00

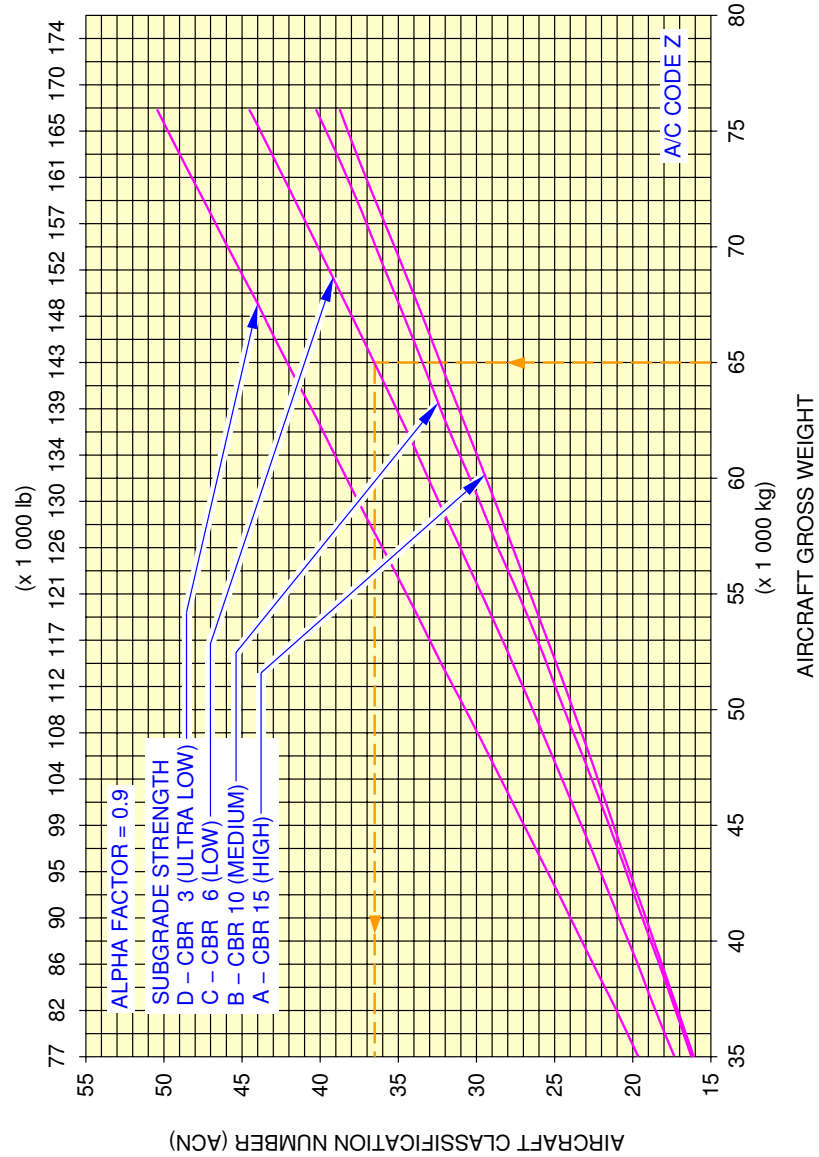
Aircraft Classification Number – Flexible Pavement
FIGURE 23

**ON A/C A319-100

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE Z

46 x 17 R20 (46 x 16-20) TIRES

TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



N_AC_070901_1_0740101_01_00

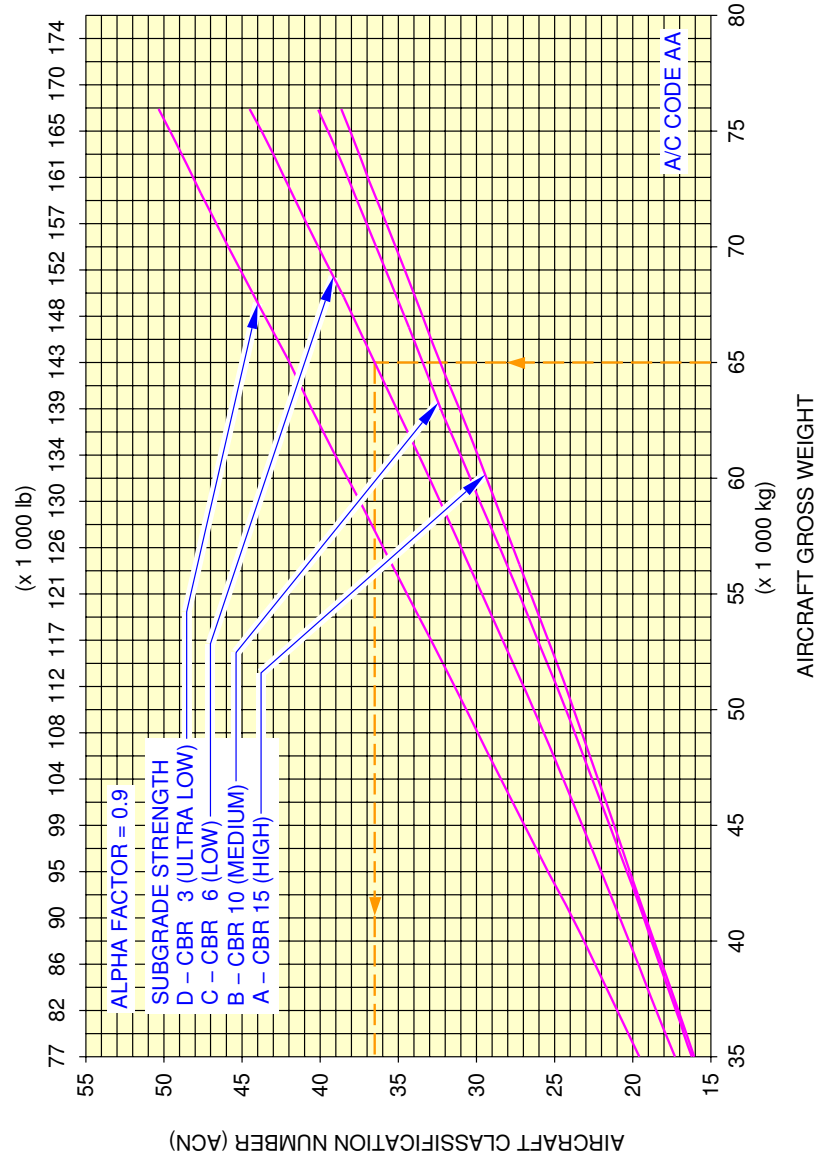
Aircraft Classification Number – Flexible Pavement
FIGURE 24

**ON A/C A319-100

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE AA

46 x 17 R20 (46 x 16-20) TIRES

TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



N_AC_070901_1_0750101_01_00

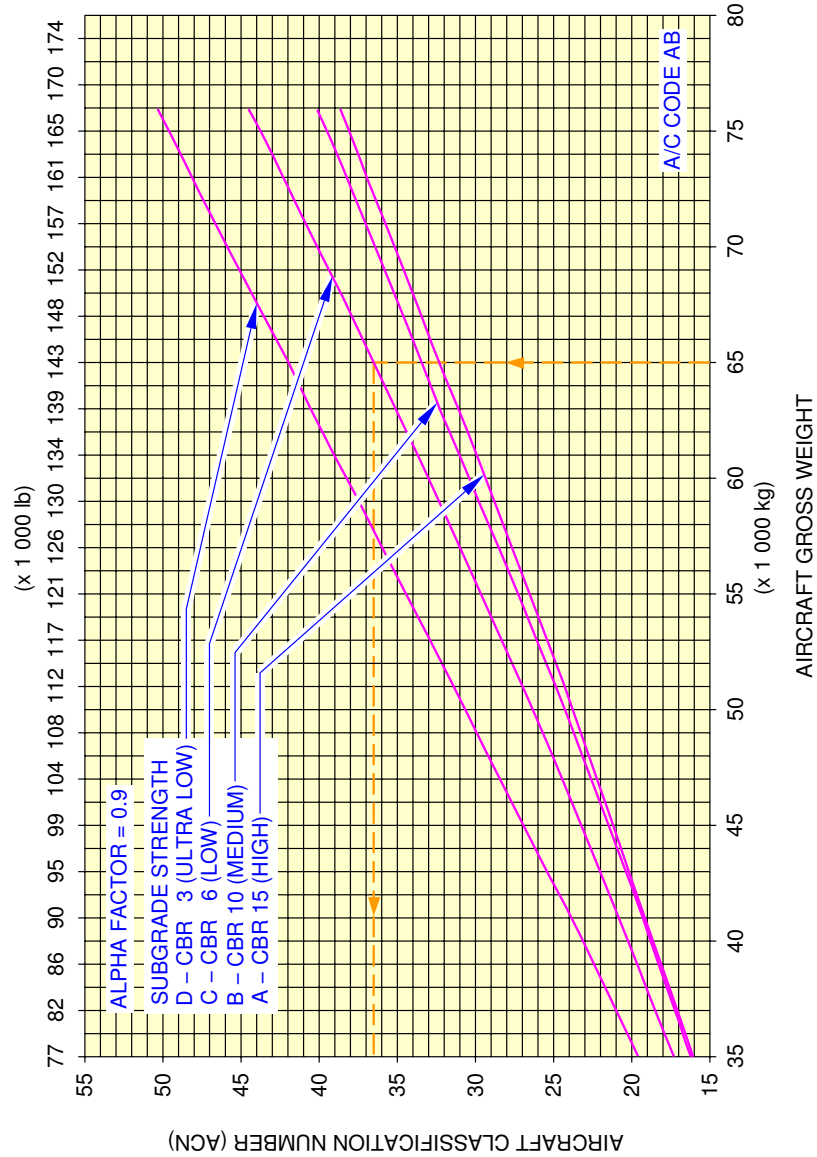
Aircraft Classification Number – Flexible Pavement
FIGURE 25

**ON A/C A319-100

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE AB

46 x 17 R20 (46 x 16-20) TIRES

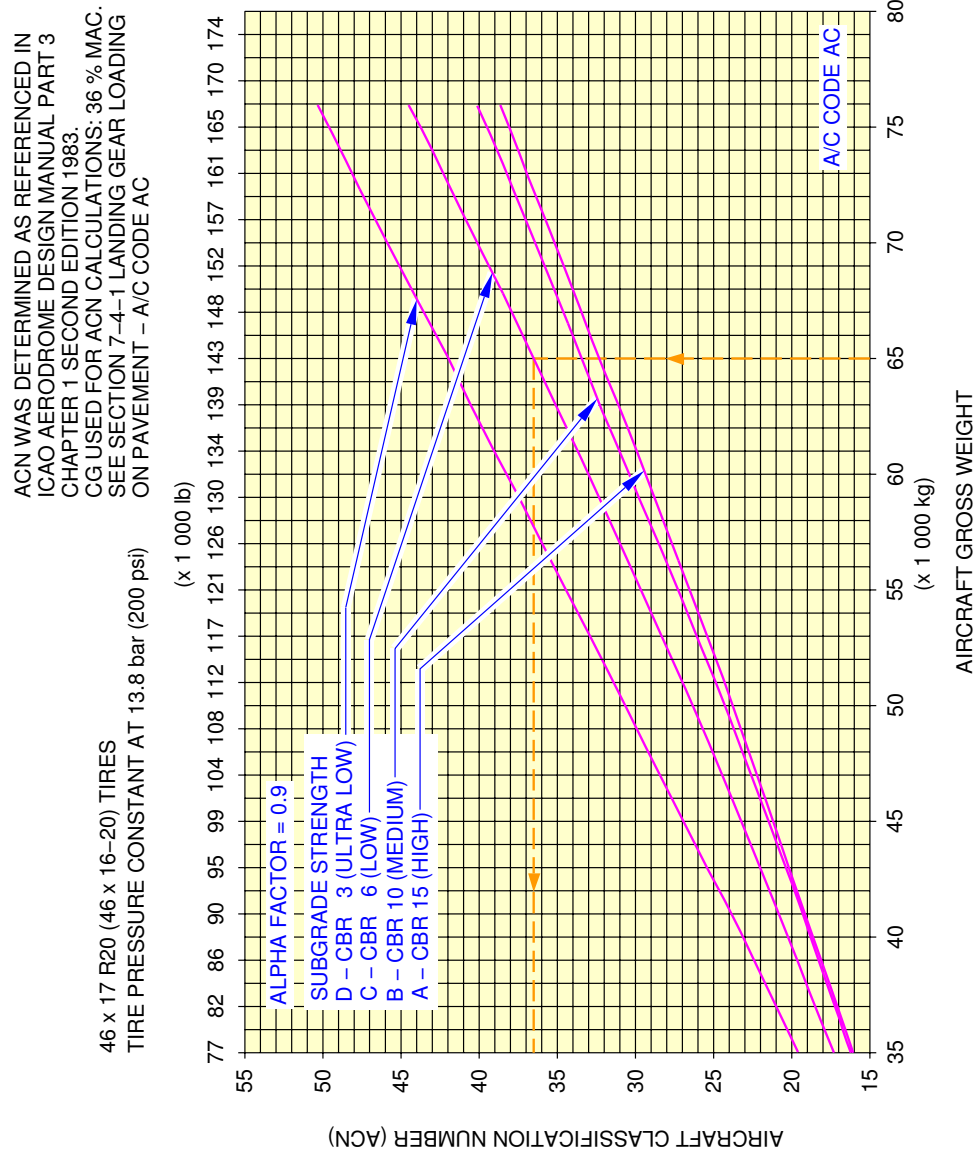
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



N_AC_070901_1_0760101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 26

**ON A/C A319-100



N_AC_070901_1_0770101_01_00

Aircraft Classification Number – Flexible Pavement
FIGURE 27

7-9-2 Aircraft Classification Number - Rigid Pavement****ON A/C A319-100**Aircraft Classification Number - Rigid Pavement

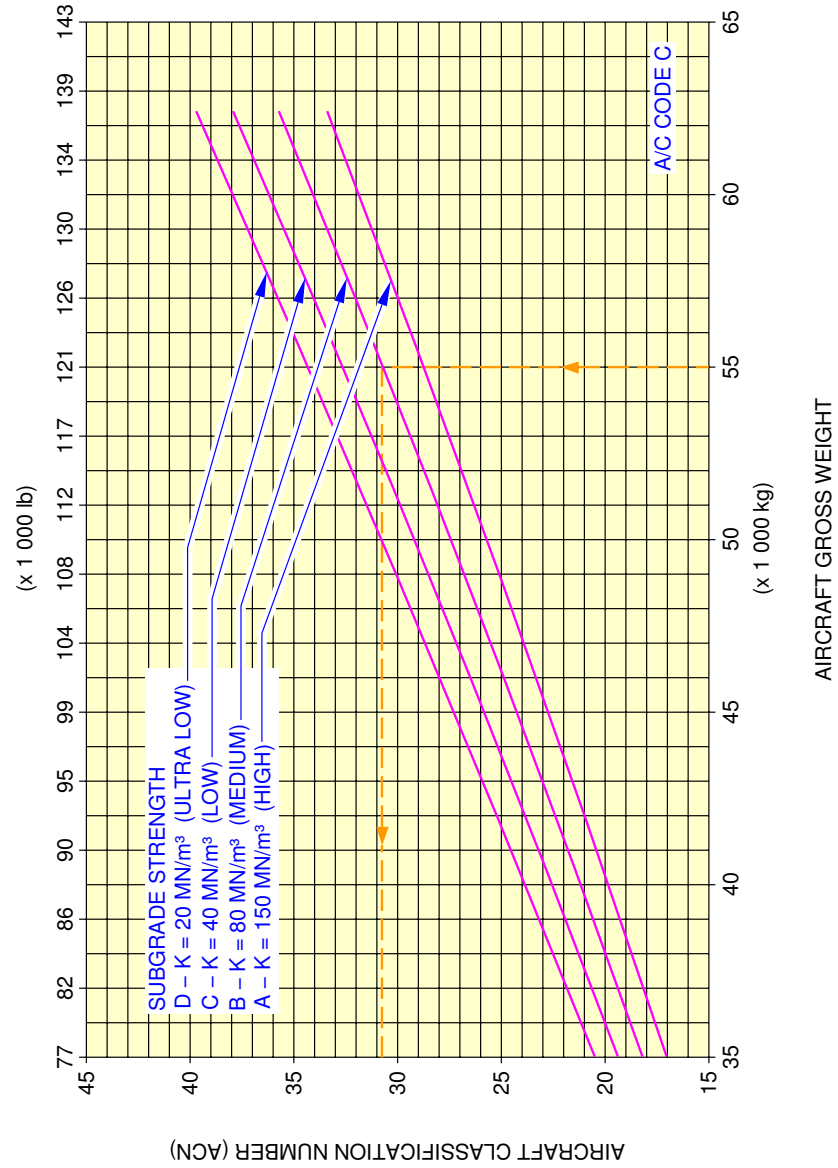
1. This section gives the Aircraft Classification Number - Rigid Pavement.

I NOTE : For A/C Code definition, refer to chapter 7-1-0.

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 39 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE C

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)

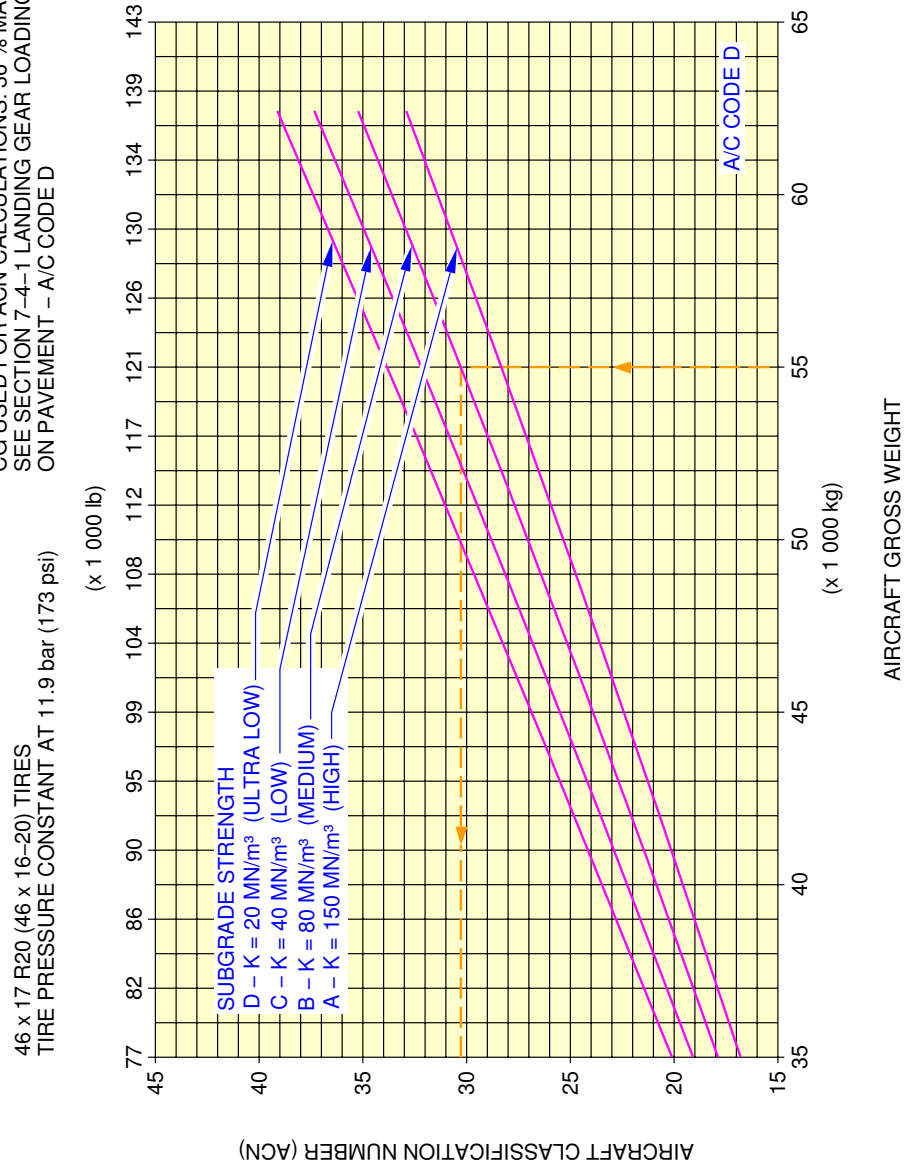


N_AC_070902_1_0500101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 1

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE D

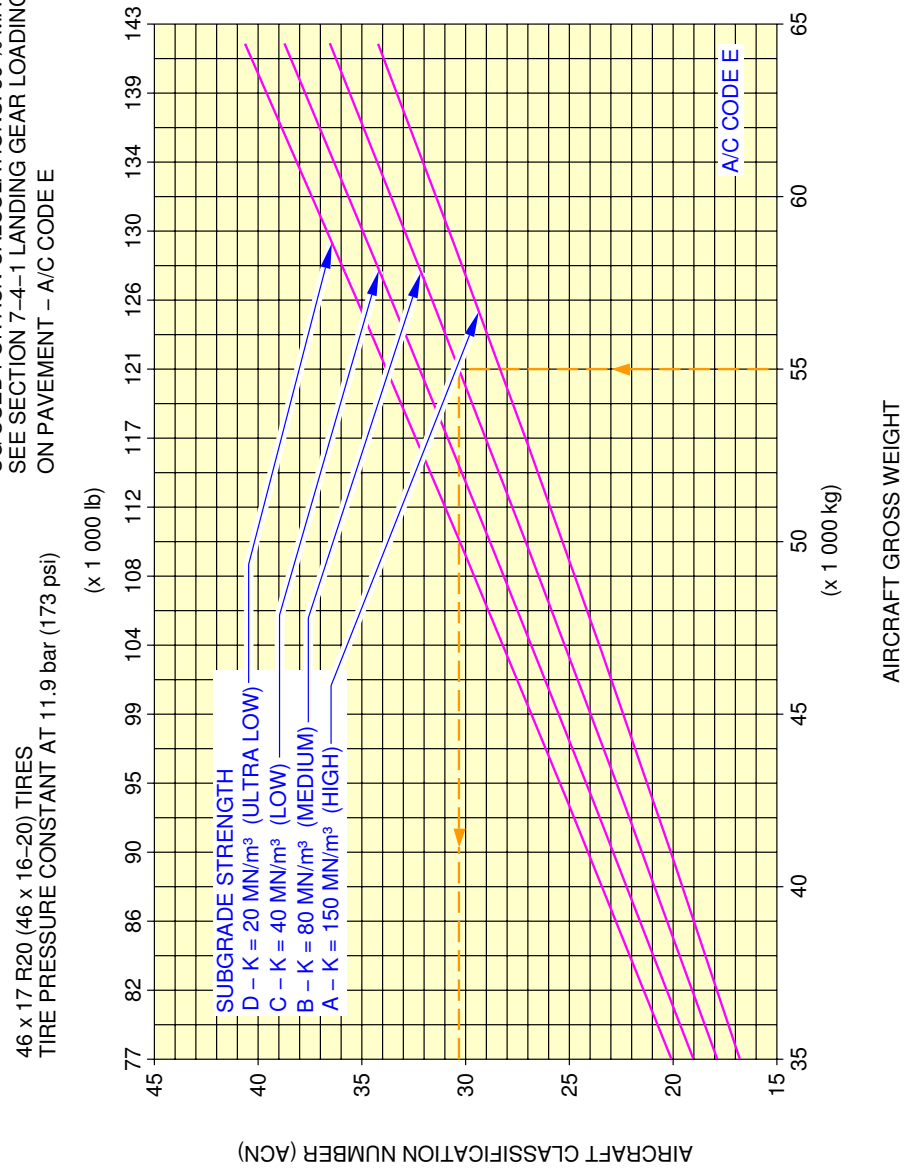


N_AC_070902_1_0510101_01_00

Aircraft Classification Number - Rigid Pavement
FIGURE 2

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN ICAO AERODROME DESIGN MANUAL PART 3 CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING ON PAVEMENT - A/C CODE E

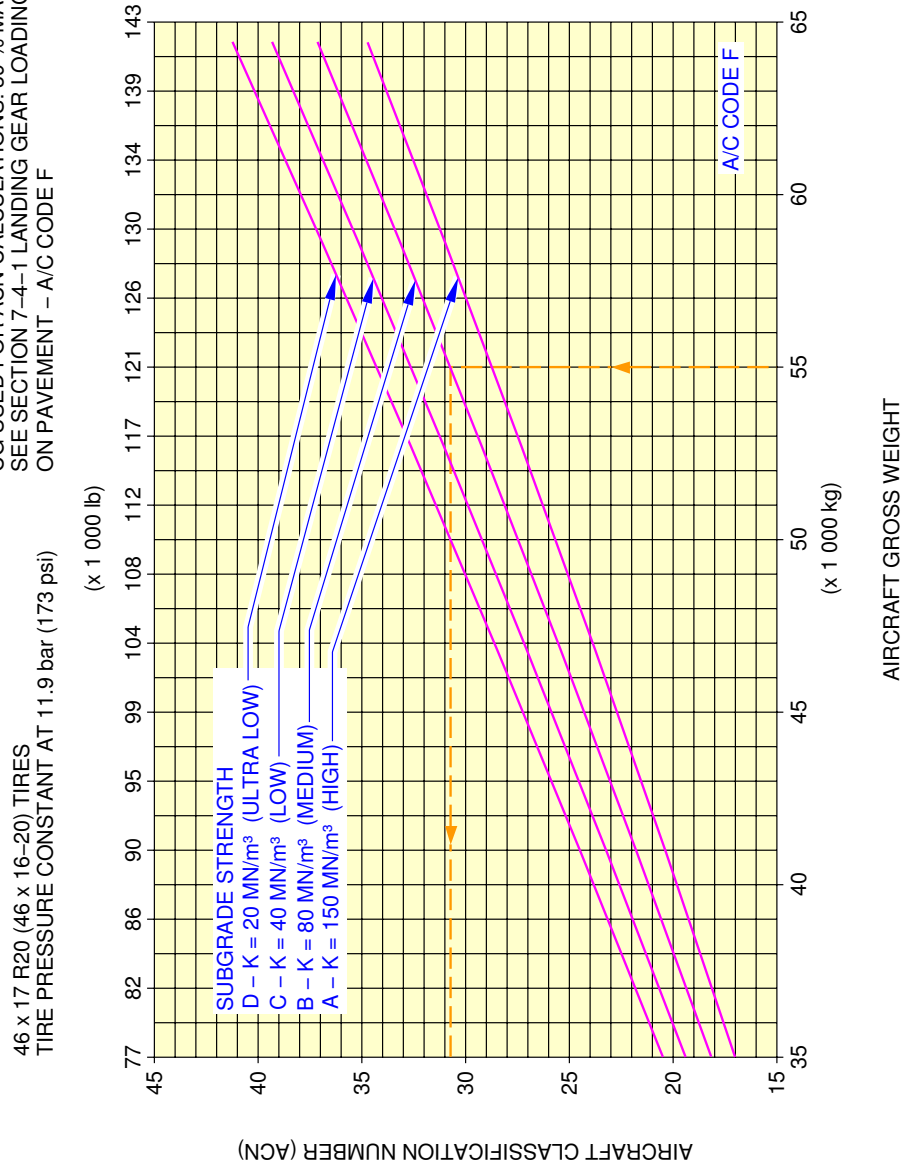


N_AC_070902_1_0520101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 3

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 39 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE F

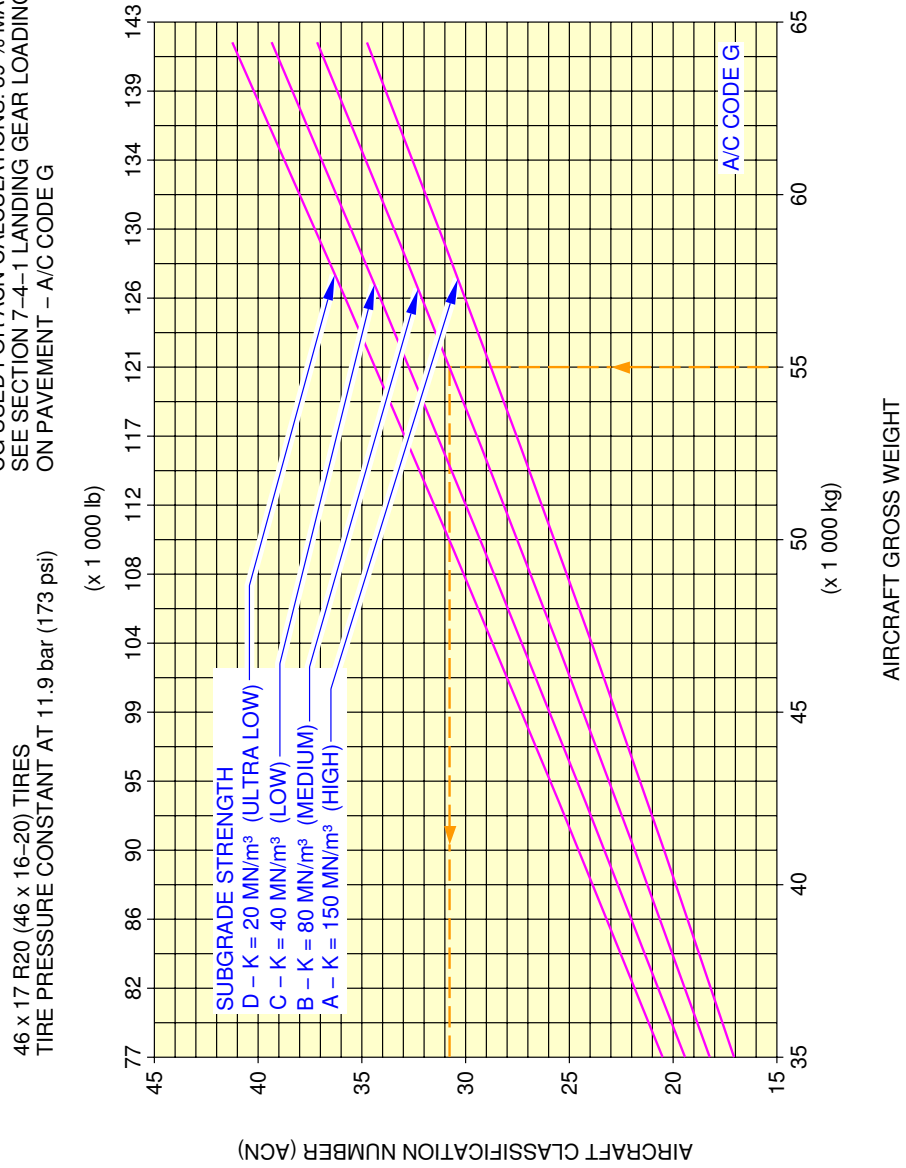


N_AC_070902_1_0530101_01_00

Aircraft Classification Number - Rigid Pavement
FIGURE 4

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 39 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT – A/C CODE G



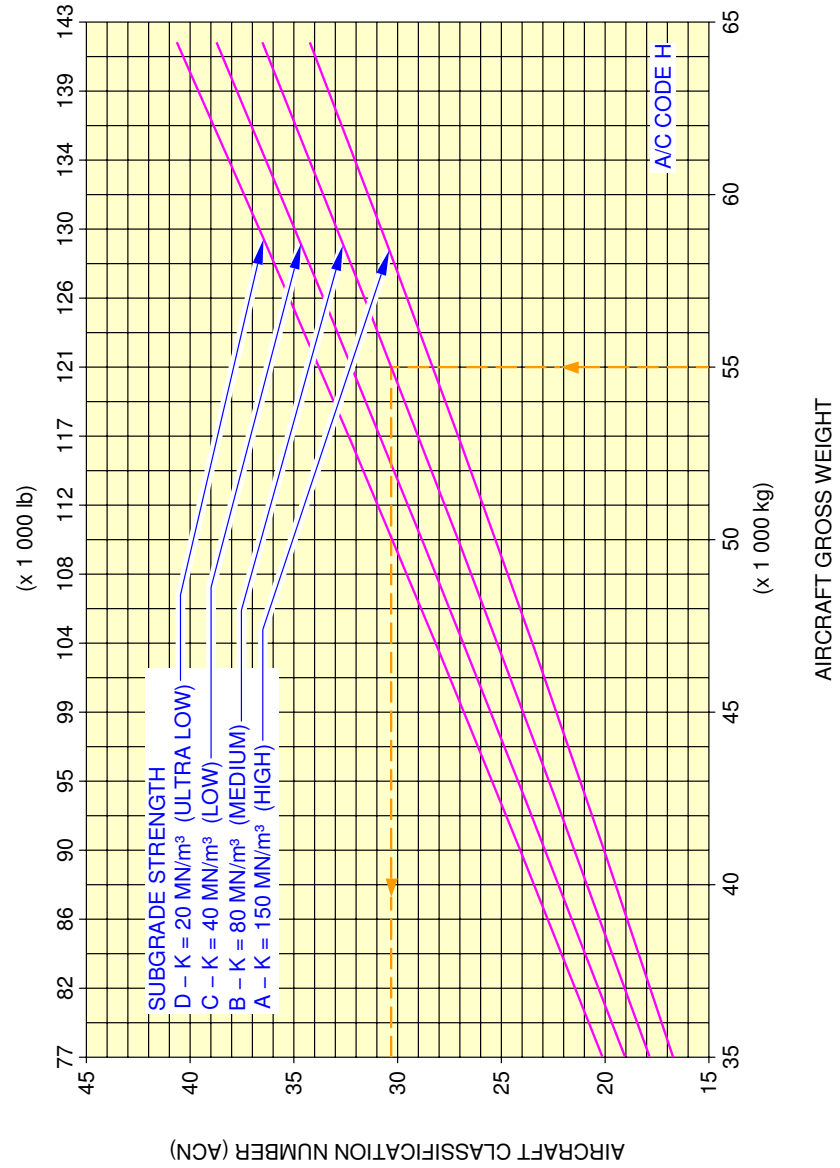
N_AC_070902_1_0540101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 5

**ON A/C A319-100

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE H

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 11.9 bar (173 psi)



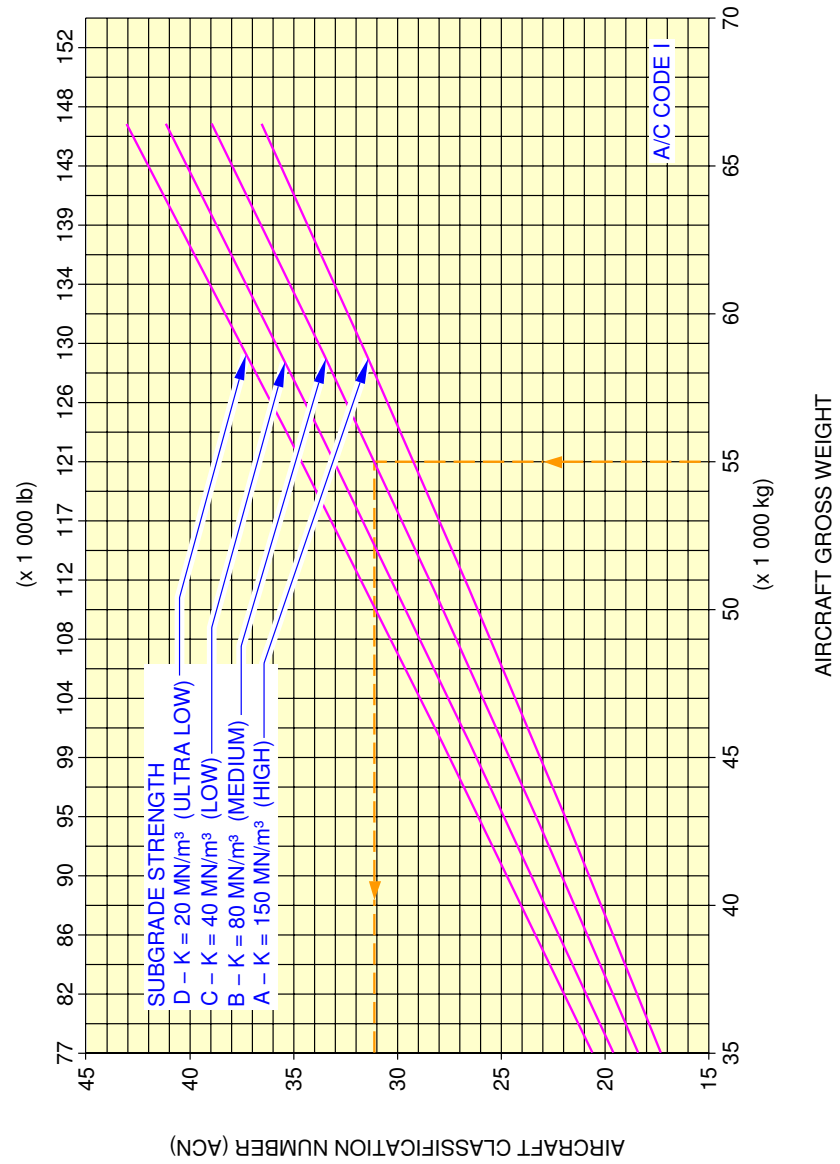
N_AC_070902_1_0550101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 6

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 38.8 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE I

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



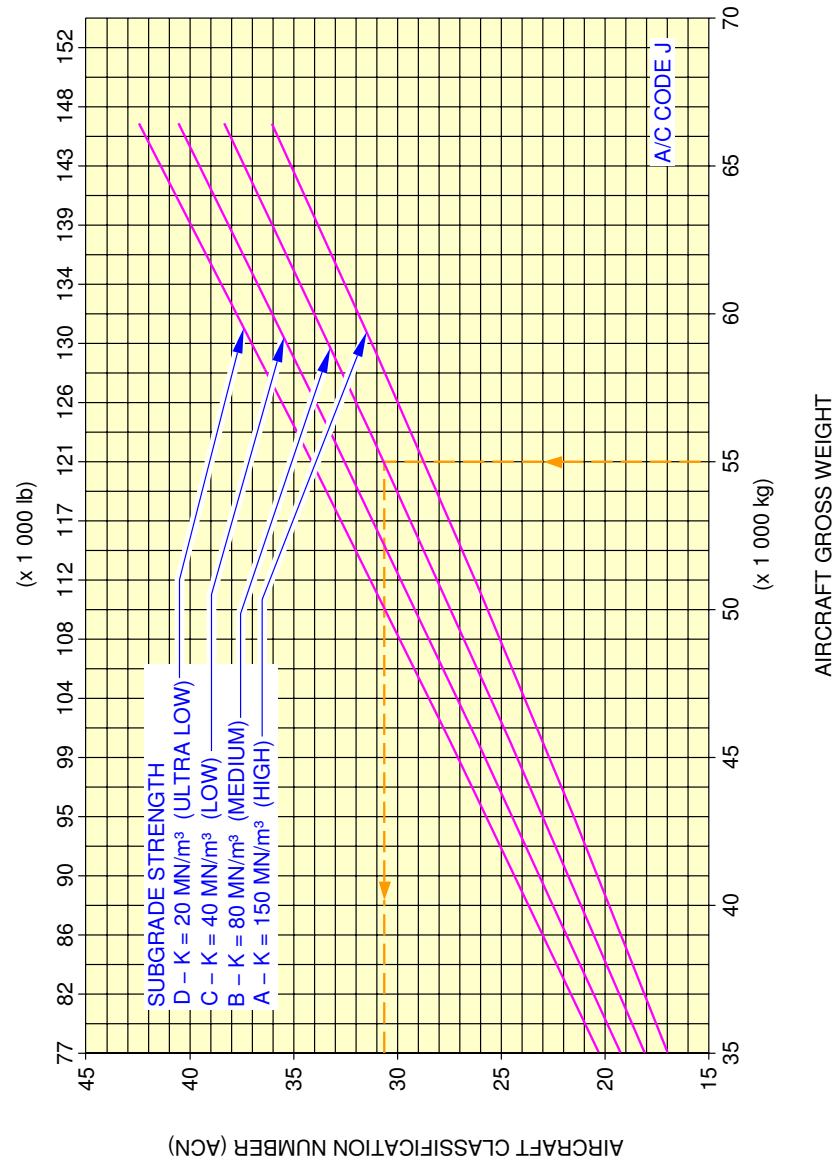
N_AC_070902_1_0560101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 7

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT – A/C CODE J

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



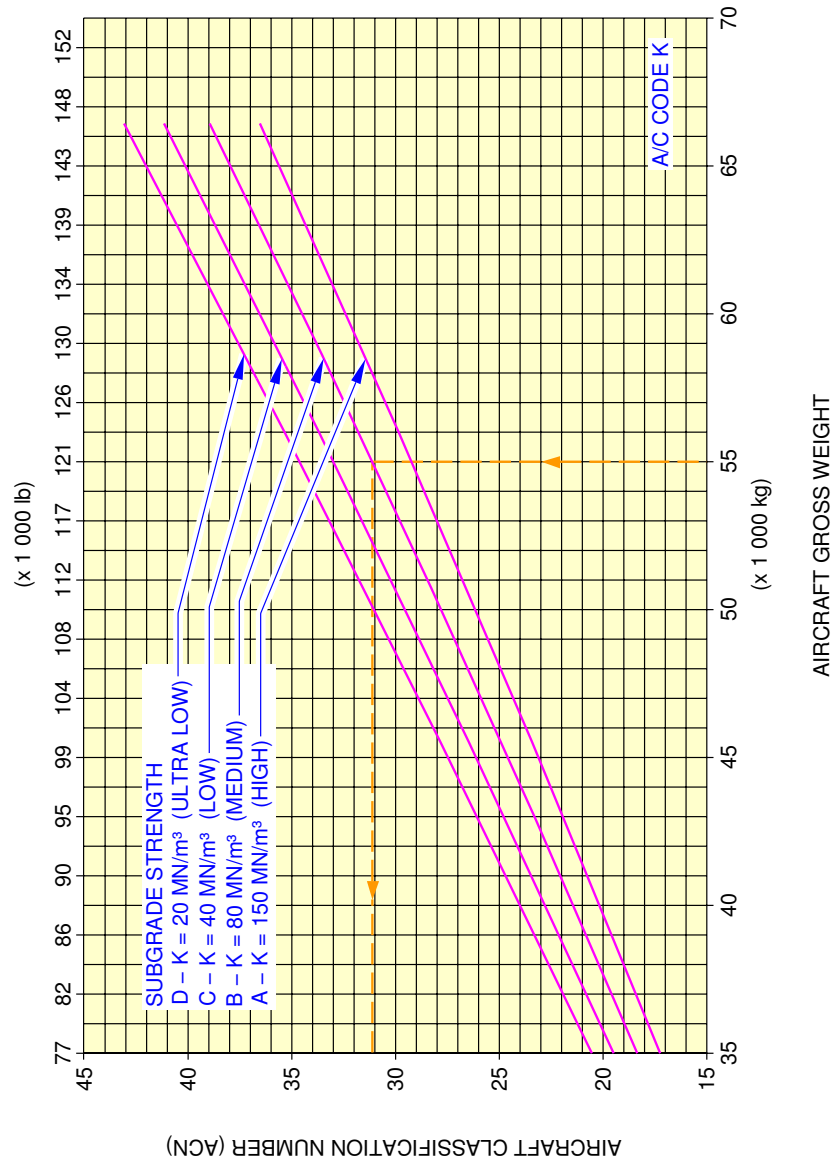
N_AC_070902_1_0570101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 8

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 38.8 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT – A/C CODE K

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



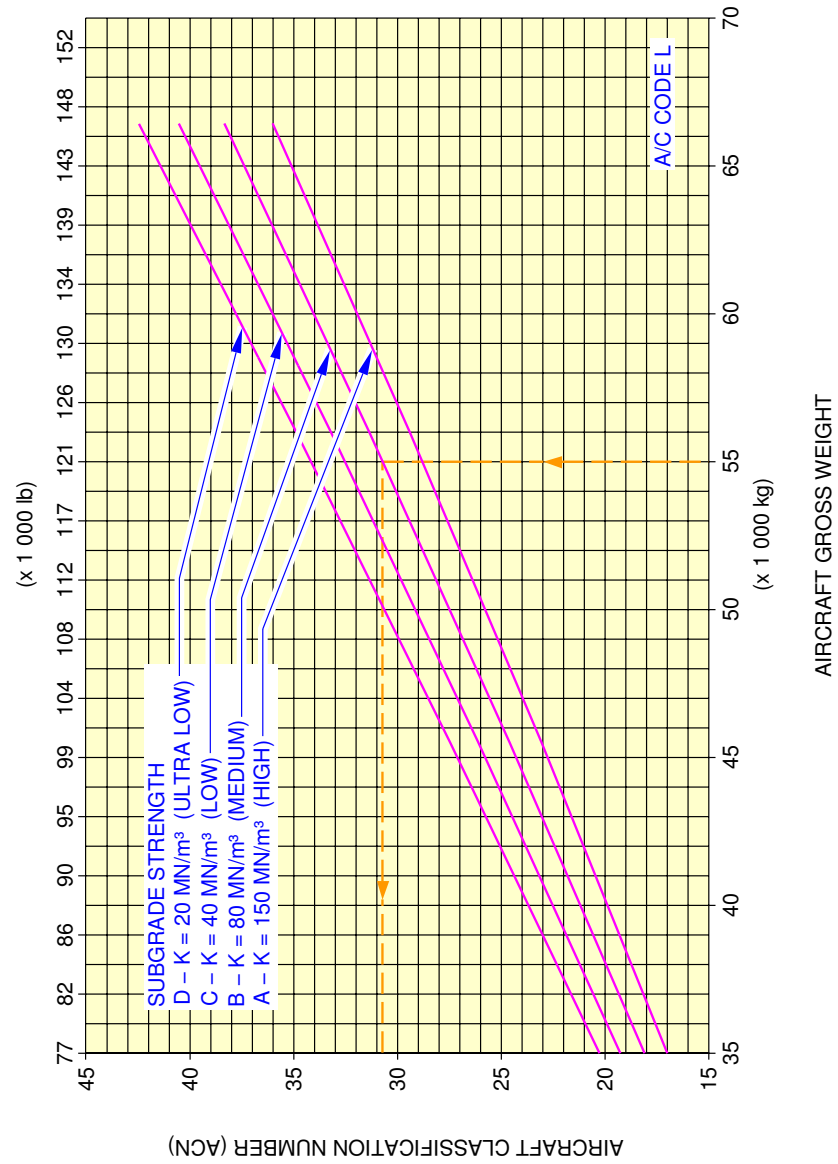
N_AC_070902_1_0580101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 9

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE L

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



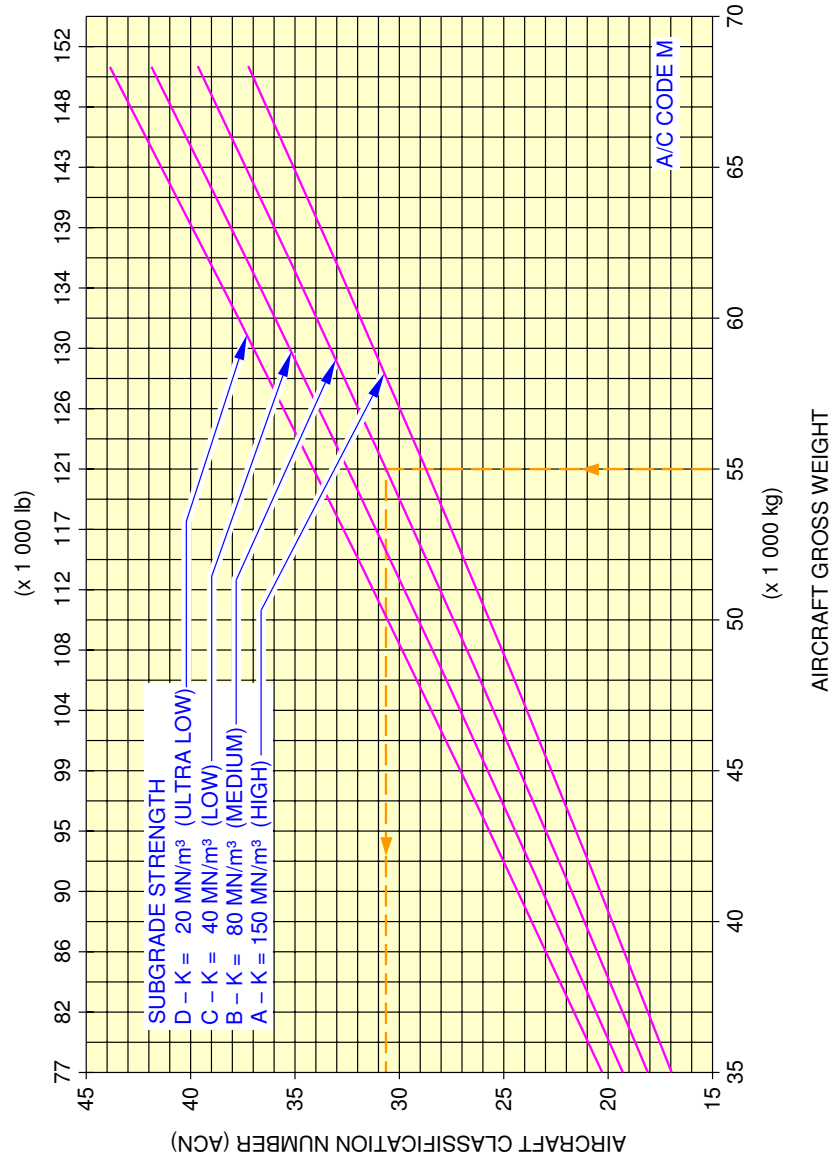
N_AC_070902_1_0590101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 10

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE M

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



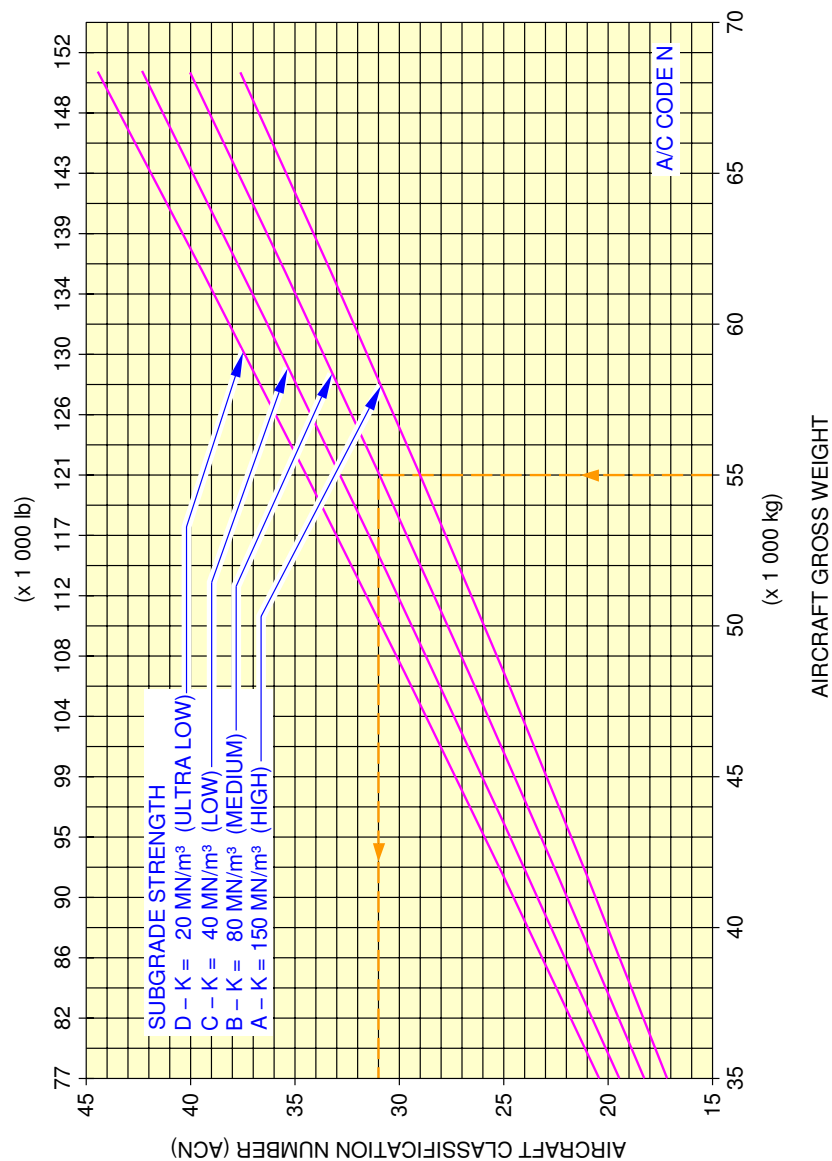
N_AC_070902_1_0600101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 11

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 38.1 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE N

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



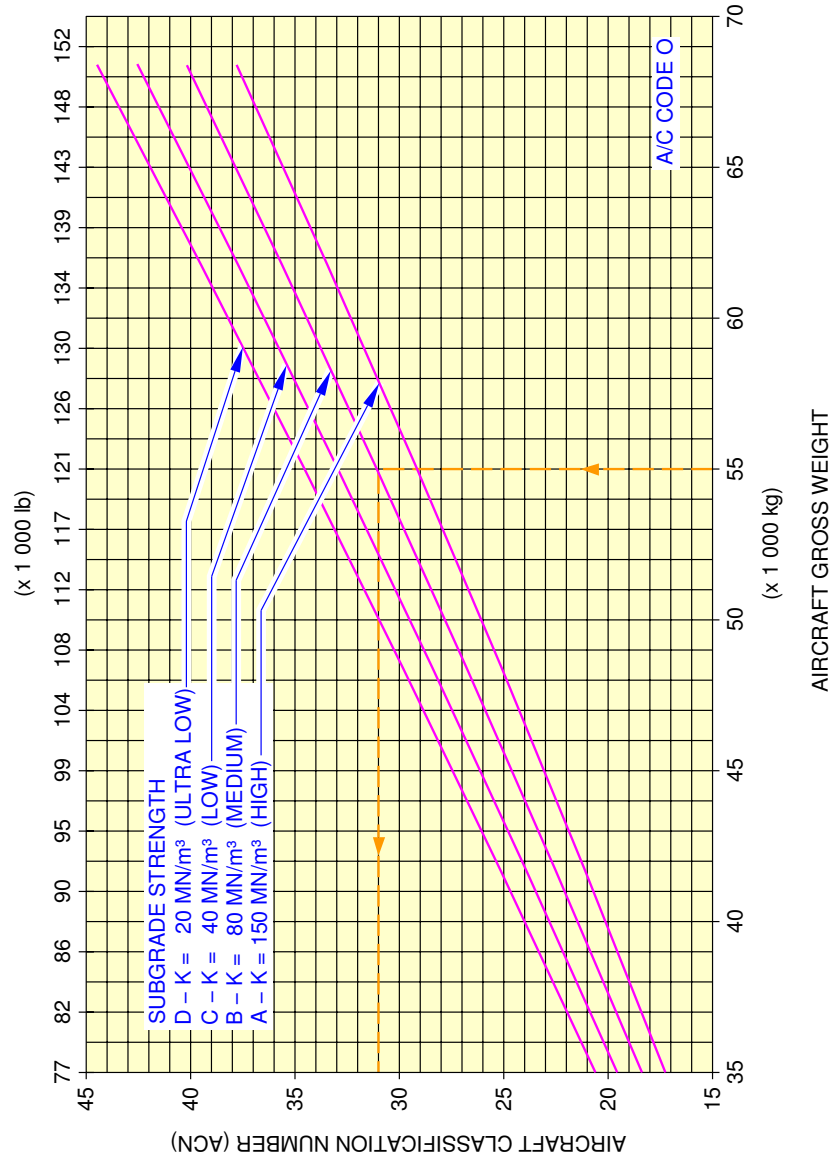
N_AC_070902_1_0610101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 12

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE O

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



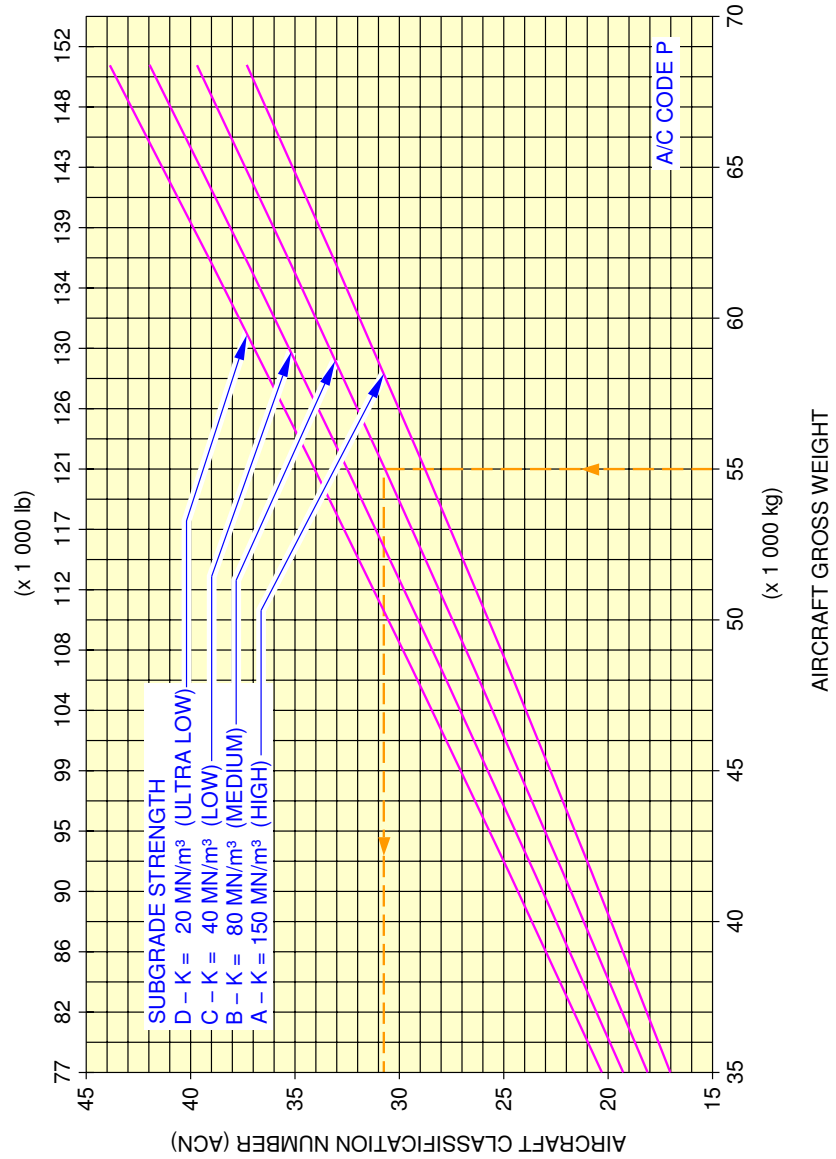
N_AC_070902_1_0620101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 13

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 38.1 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE P

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.5 bar (181 psi)



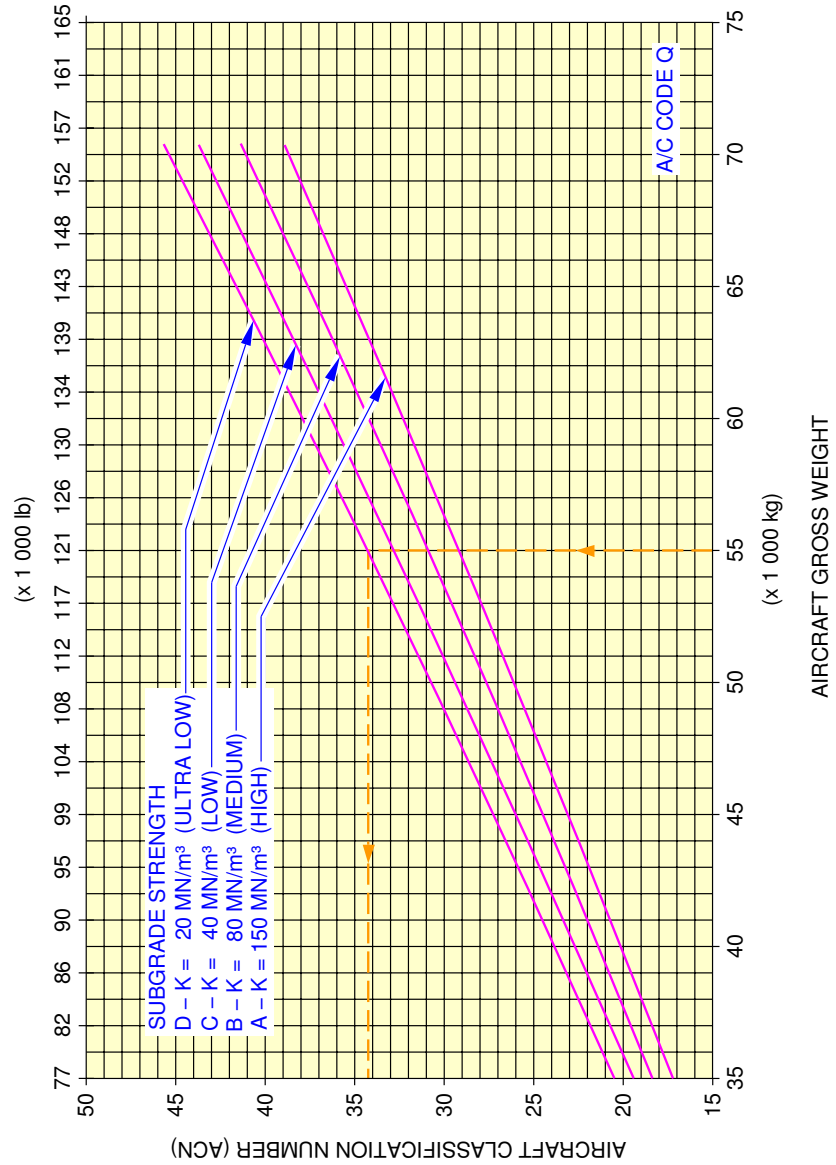
N_AC_070902_1_0630101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 14

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE Q

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)



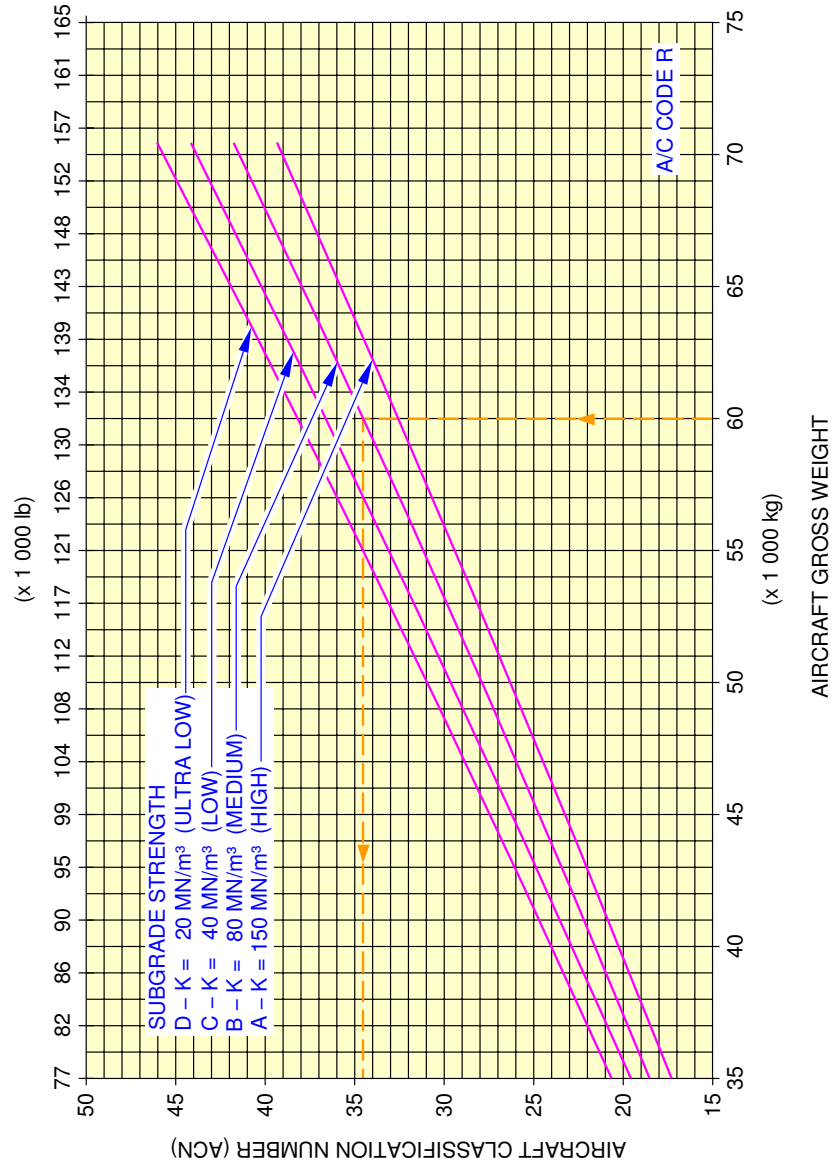
N_AC_070902_1_0640101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 15

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 37.5 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE R

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)



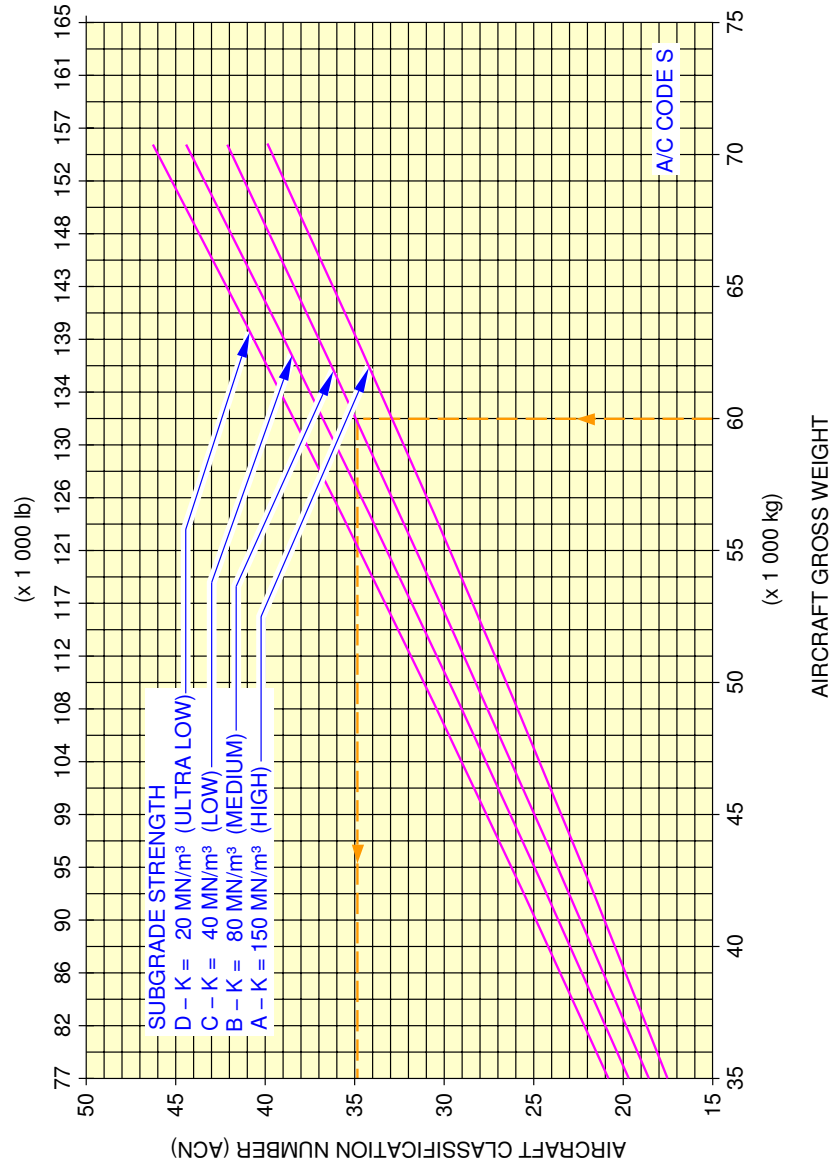
N_AC_070902_1_0650101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 16

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE S

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



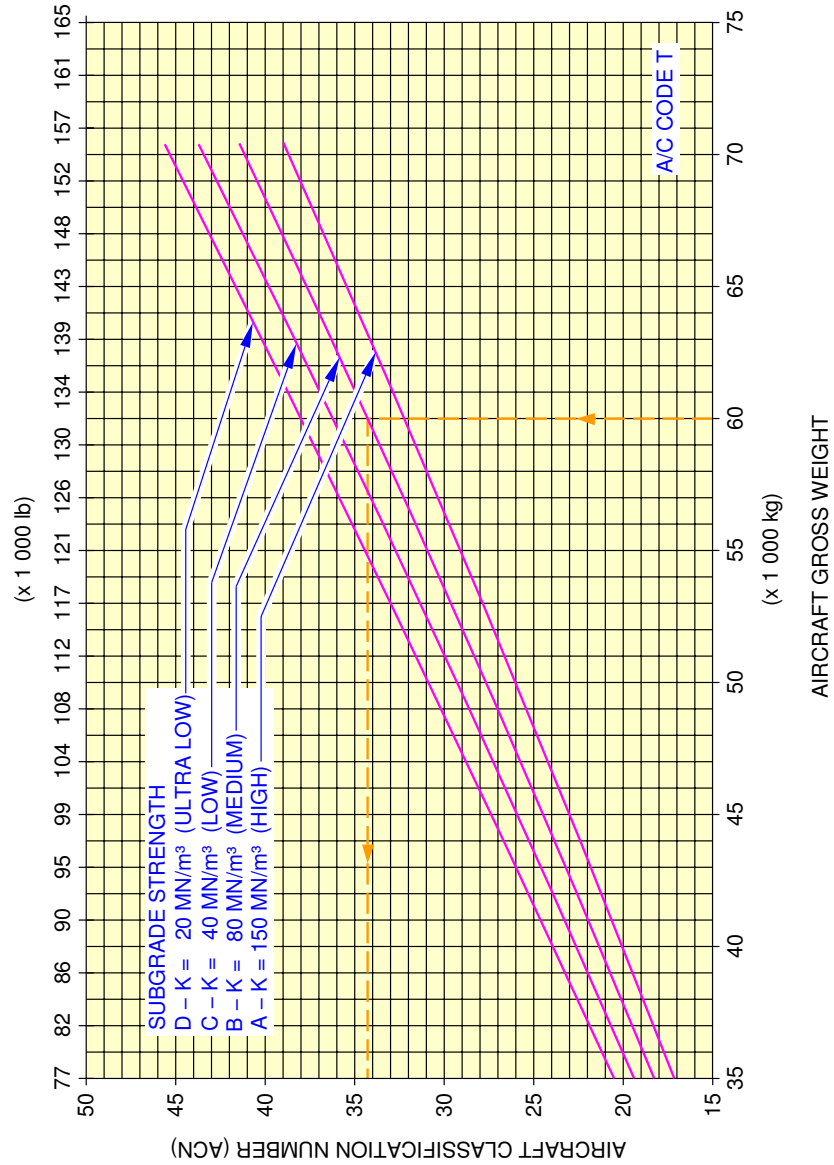
N_AC_070902_1_0660101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 17

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE T

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)



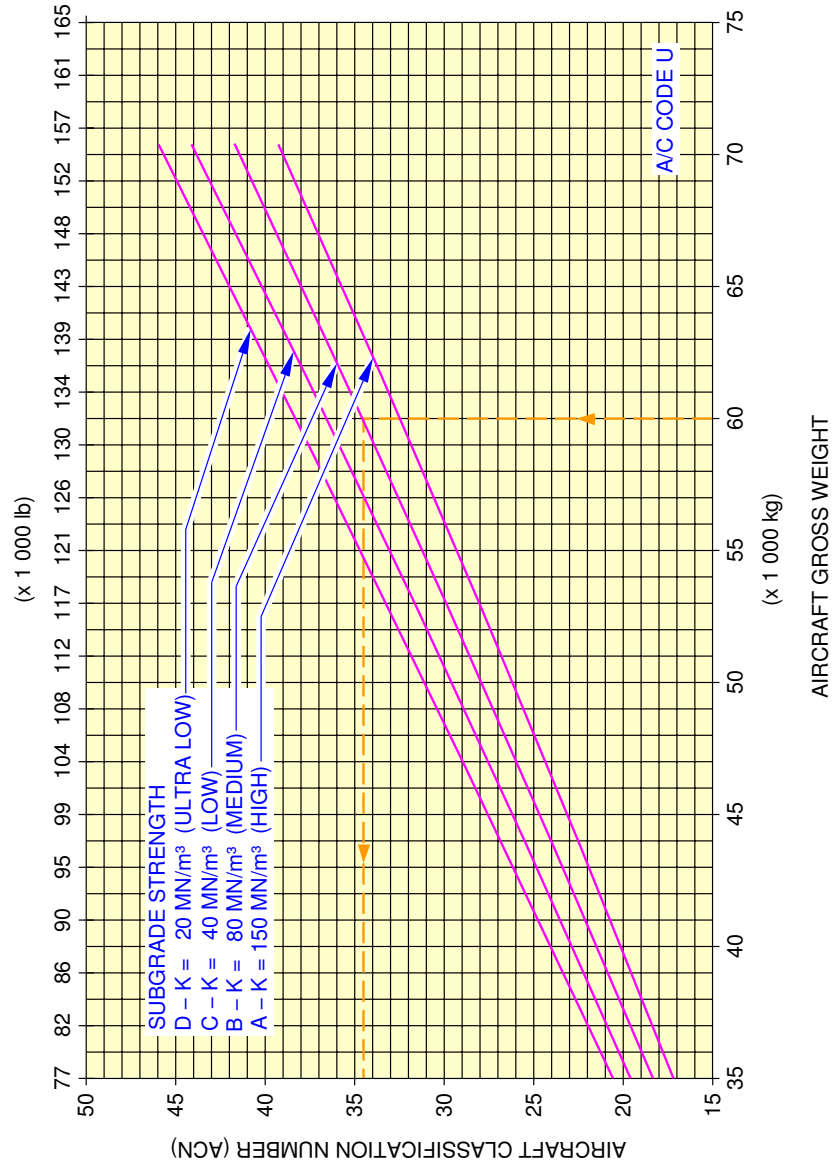
N_AC_070902_1_0670101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 18

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 37.5 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE U

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 12.9 bar (187 psi)



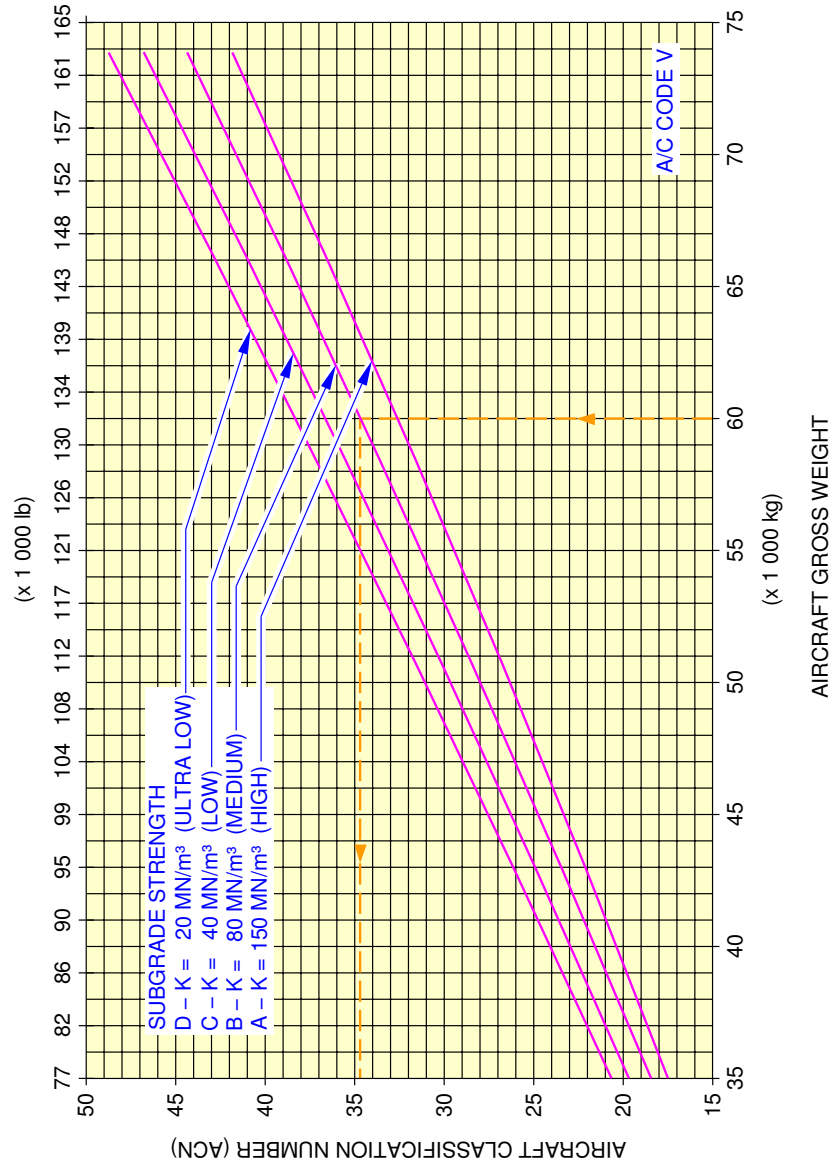
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Aircraft Classification Number – Rigid Pavement
FIGURE 19

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36.52 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE V

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.4 bar (194 psi)



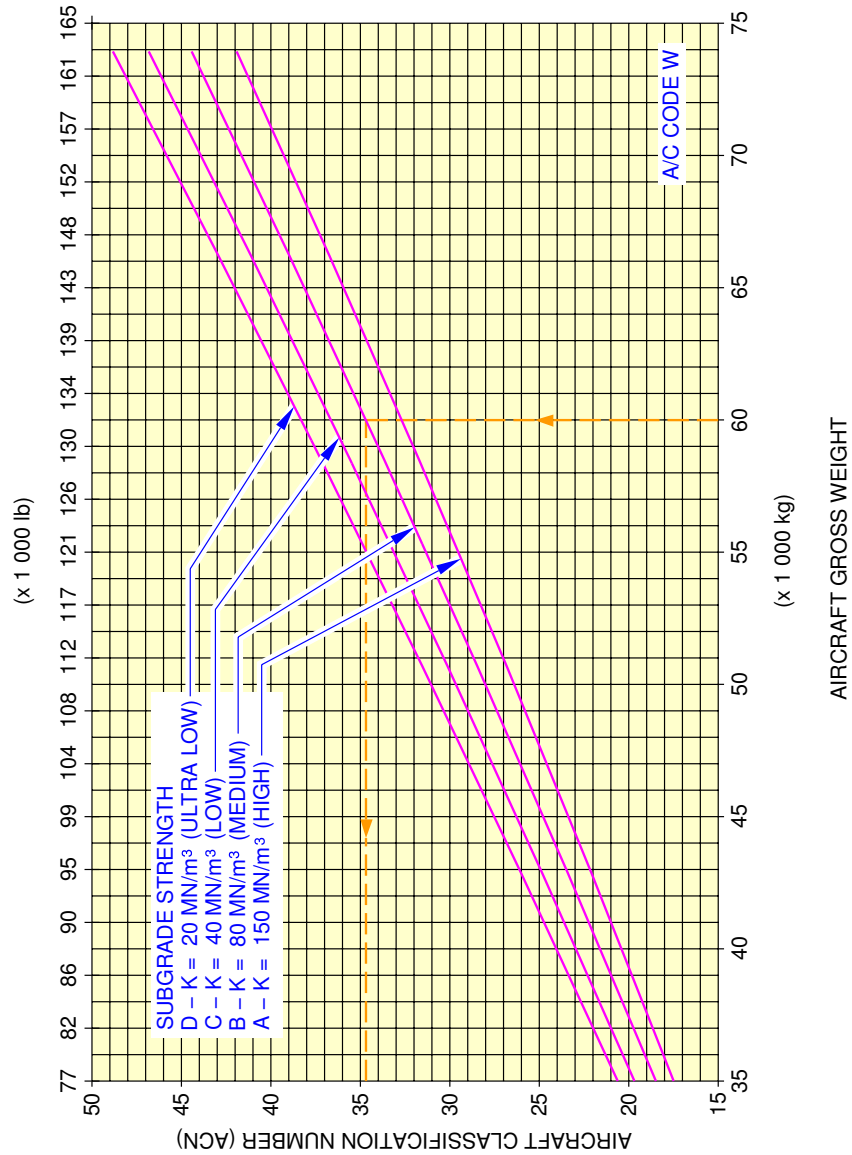
N_AC_070902_1_0690101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 20

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36.52 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE W

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.4 bar (194 psi)



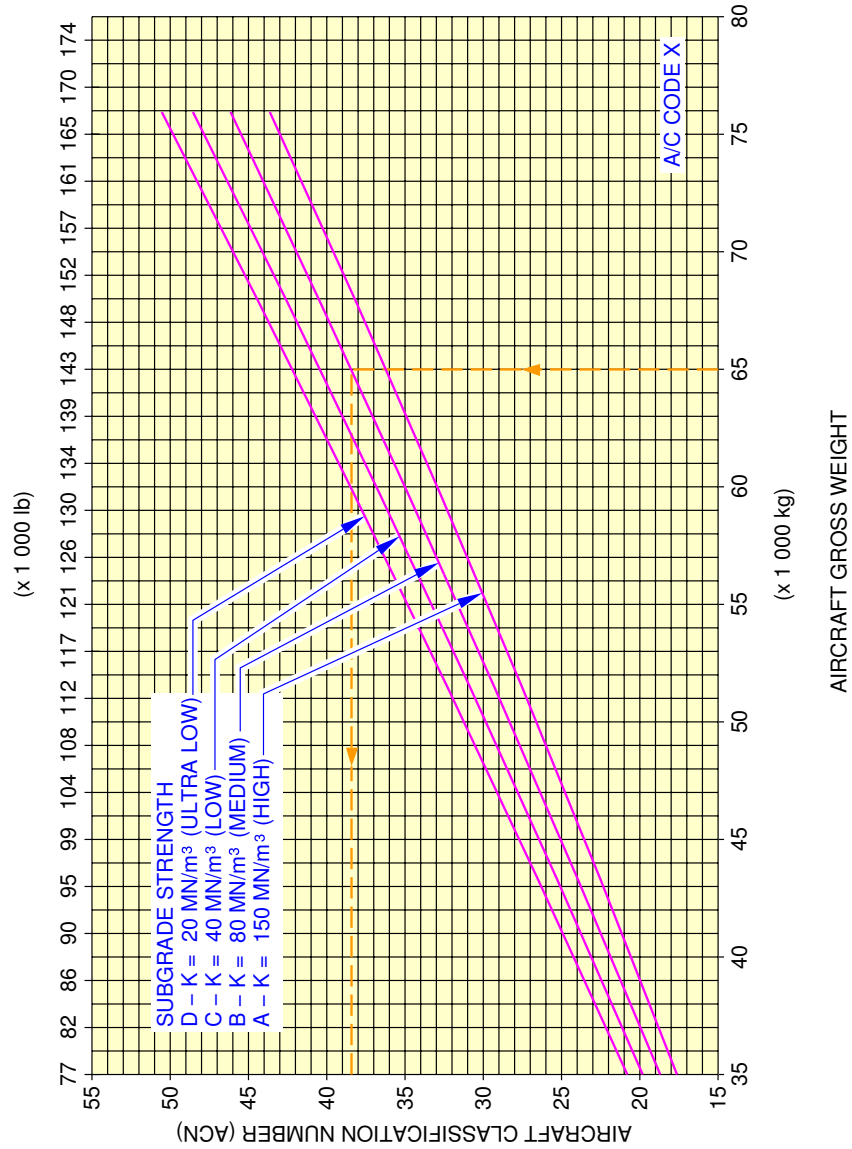
N_AC_070902_1_0700101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 21

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE X

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



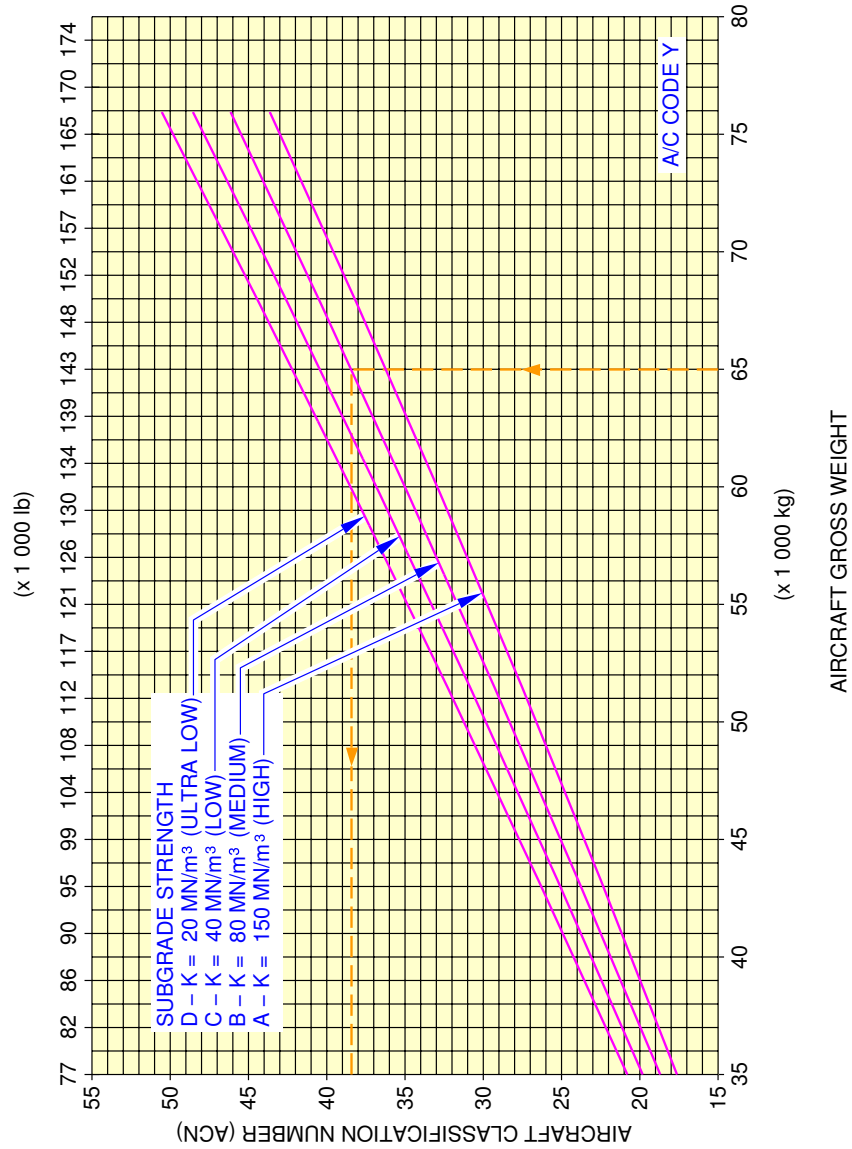
N_AC_070902_1_0710101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 22

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE Y

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



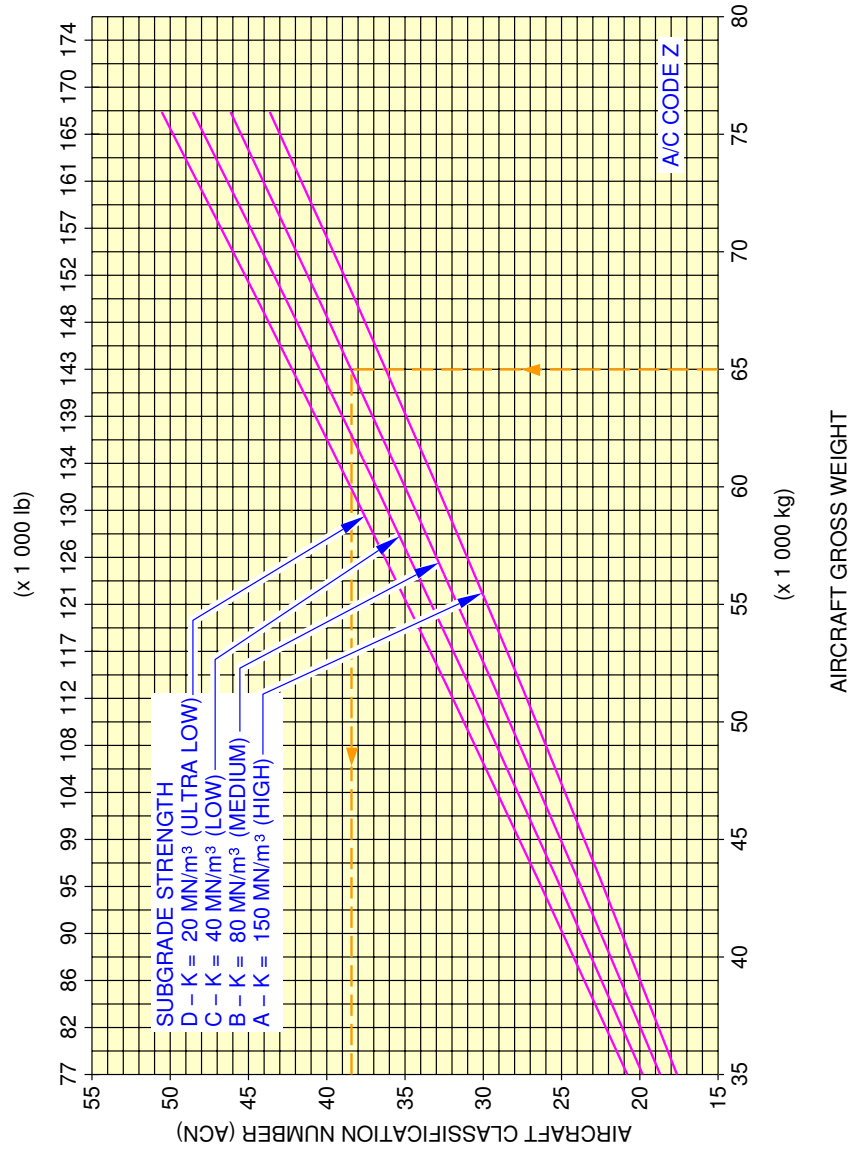
N_AC_070902_1_0720101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 23

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT – A/C CODE Z

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



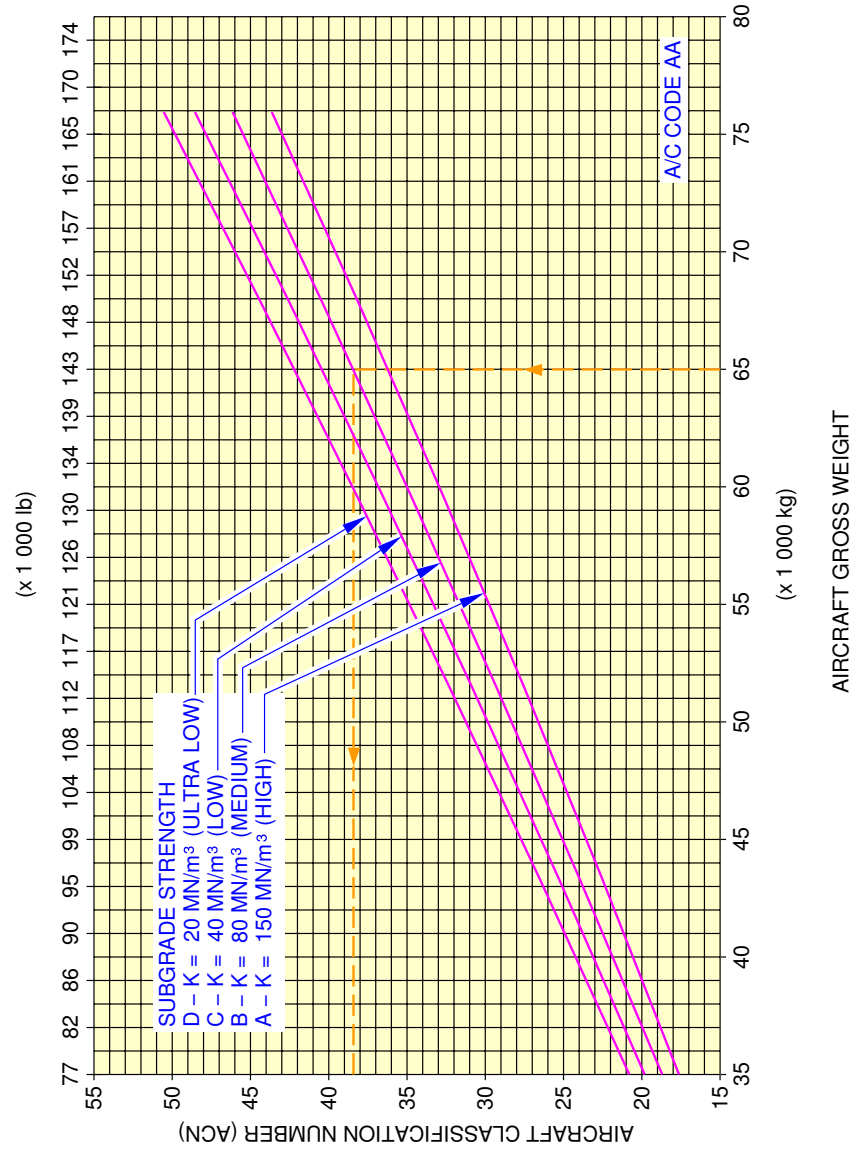
N_AC_070902_1_0730101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 24

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE AA

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



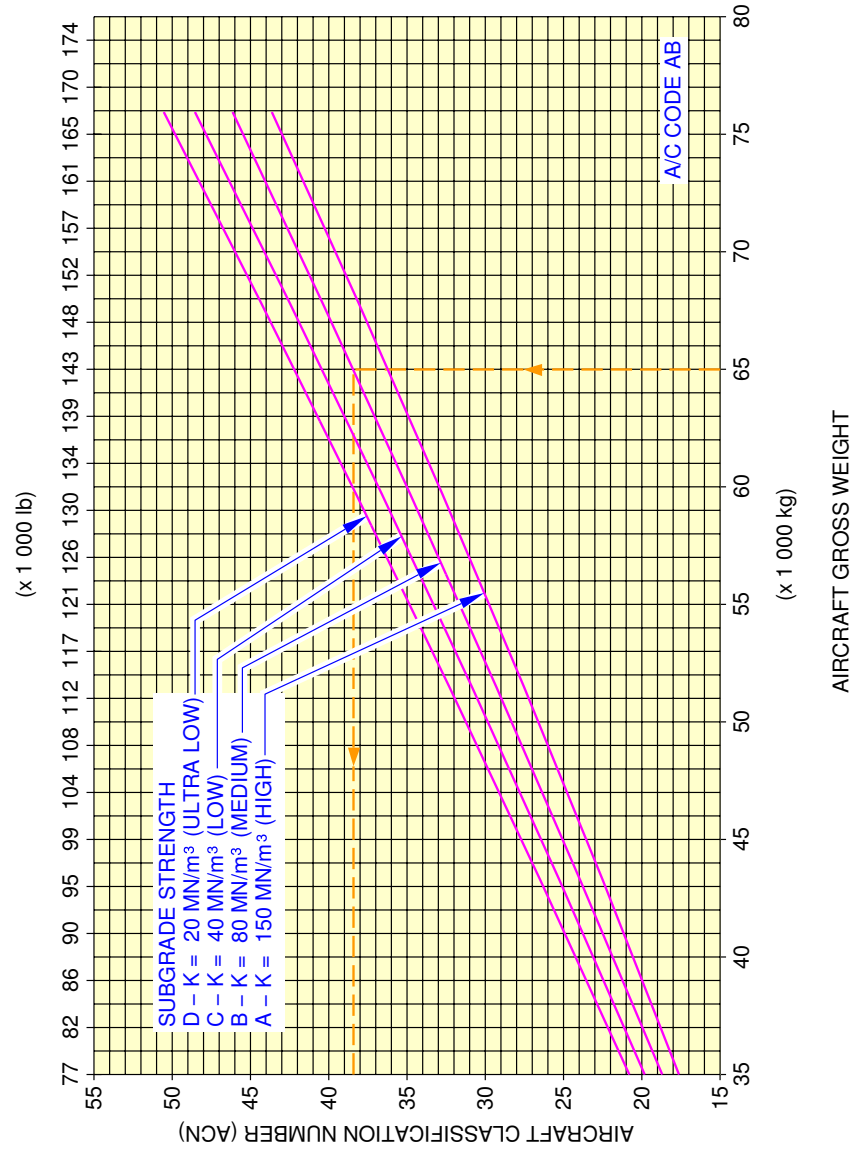
N_AC_070902_1_0740101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 25

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT - A/C CODE AB

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



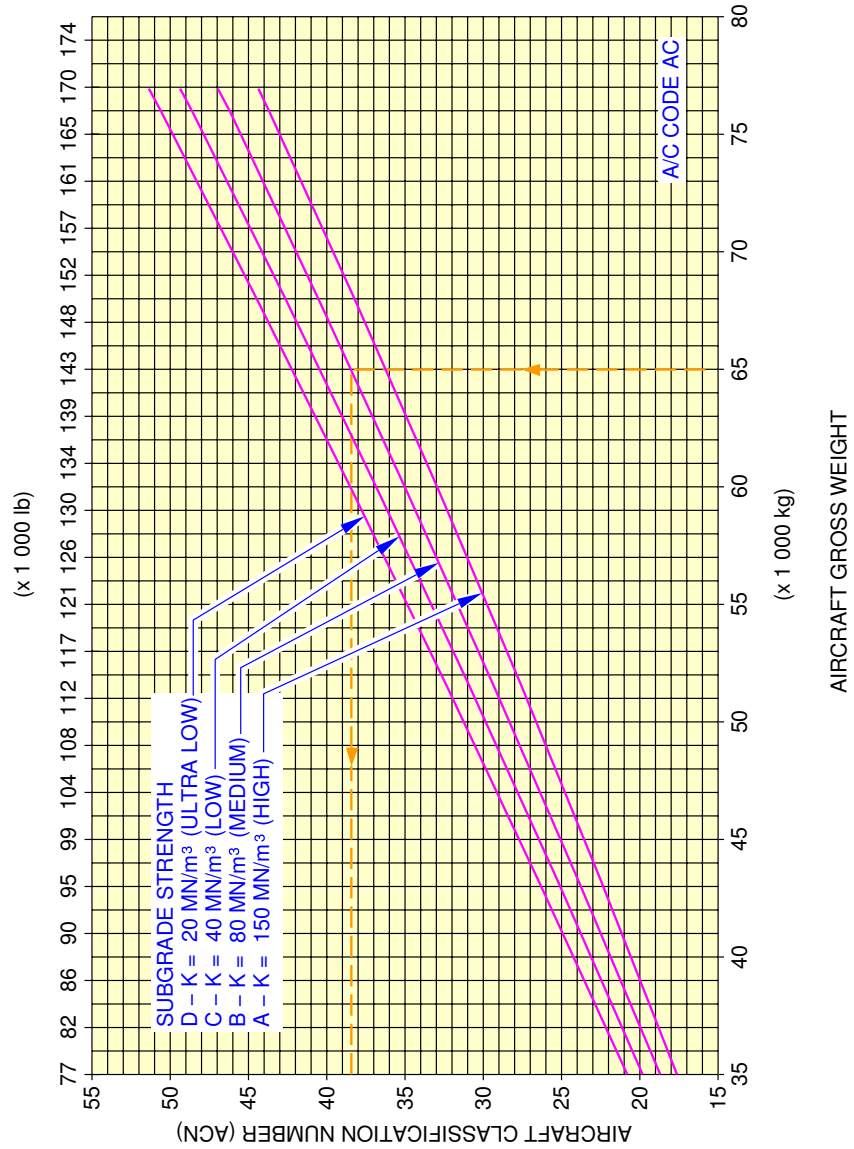
N_AC_070902_1_0750101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 26

****ON A/C A319-100**

ACN WAS DETERMINED AS REFERENCED IN
ICAO AERODROME DESIGN MANUAL PART 3
CHAPTER 1 SECOND EDITION 1983.
CG USED FOR ACN CALCULATIONS: 36 % MAC.
SEE SECTION 7-4-1 LANDING GEAR LOADING
ON PAVEMENT – A/C CODE AC

46 x 17 R20 (46 x 16-20) TIRES
TIRE PRESSURE CONSTANT AT 13.8 bar (200 psi)



N_AC_070902_1_0770101_01_00

Aircraft Classification Number – Rigid Pavement
FIGURE 27

DERIVATIVE AIRPLANES**8-1-0 Possible Future Derivative Airplane******ON A/C A319-100**Possible Future Derivative Airplane

1. General

Derivative versions of the A319 are planned. All product line airplanes are studied for possible size changes that might be required for fulfilling future airline needs. History has proved that derivative airplanes of a given model can encompass both increases and decreases in linear dimensions and weight.



AIRPLANE CHARACTERISTICS FOR AIRPORT PLANNING

SCALED DRAWINGS

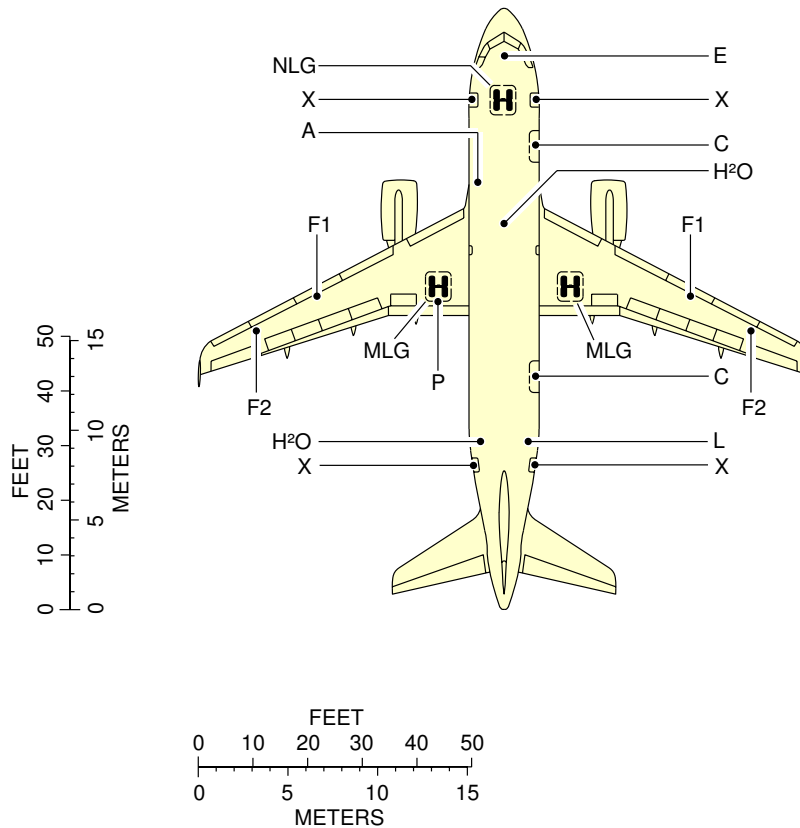
9-1-0 Scaled Drawings

****ON A/C A319-100**

Scaled Drawings

1. This section gives scaled drawings of the aircraft.

****ON A/C A319-100**



LEGEND:

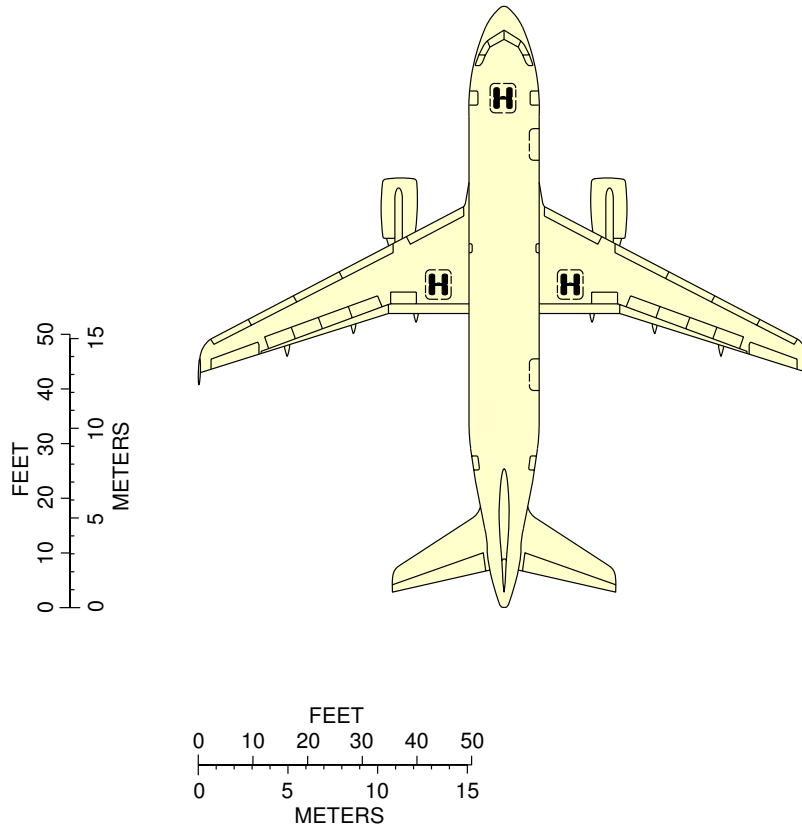
A	AIR CONDITIONING	L	LAVATORY
C	CARGO COMPT DOOR	MLG	MAIN LANDING GEAR
E	ELECTRICAL	NLG	NOSE LANDING GEAR
F1	FUEL (COUPLING)	P	PNEUMATIC
F2	FUEL (GRAVITY)	X	PASSENGER/CREW DOOR
H ₂ O	POTABLE WATER		

NOTE: WHEN PRINTING, MAKE SURE TO ADJUST FOR PROPER SCALING.

N_AC_090100_1_0030101_01_03

Scaled Drawing
FIGURE 1

****ON A/C A319-100**



NOTE: WHEN PRINTING, MAKE SURE TO ADJUST FOR PROPER SCALING.

N_AC_090100_1_0040101_01_03

Scaled Drawing
FIGURE 2