

GRAN CANARIA
RNP Y
RWY 21L

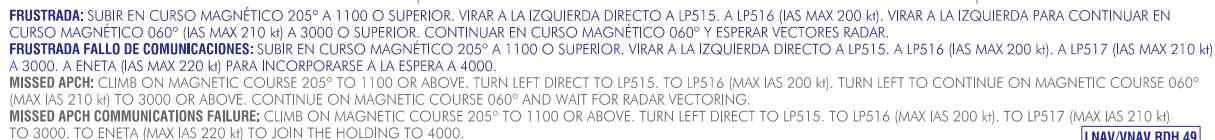
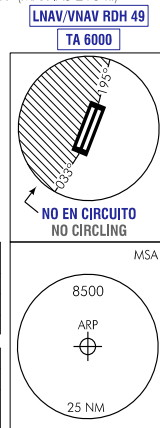


Diagram illustrating the Instrument Landing System (ILS) for Runway 21L. The diagram shows the glide path starting at 1100 feet, descending at 205 degrees with a 5.3% (3.0 degrees) slope. Key points include LP515, LP516, MAPT LNAV RW21L, and FAF LNAV LP6NE 1900 (1880). The final approach is at 205 degrees (T201.5 degrees) to the runway threshold at 2500 feet. The runway is 26 feet high and 21L.



HGT REF ELEV THR RWY 21L					THR RWY 21L	
OCA/H			A	B	C	D
STA	LNAV	2.5%	930 (910)			
	LNAV/ VNAV	2.5%	680 (660)	690 (670)	710 (690)	730 (710)
En circuito (H) sobre Circling (H) over 77			1160 (1090)	1600 (1530)	1700 (1630)	

GS		kt	80	100	120	140	160	180
FAF-THR:		min:s						
FAF-MAPT:		min:s						
ROD: 5.3 %		ft/min	431	539	647	754	862	970

ALT/HGT RWY 21L FNA												
13	12	11	10	9	8	7	6	5	4	3	2	1
								1700 (1670)	1370 (1350)	1050 (1020)		

CHANGES:

AERONAUTICAL DATABASE REQUIREMENTS

INSTRUMENT APPROACH PROCEDURES

RNP Y RWY 21L

WAYPOINTS COORDINATES

WPT	COORD
ENETA (IAF)	275529.6N 0145938.4W
GOPIM	275333.0N 0150349.2W
NINGU	275912.9N 0150310.6W
LALTO (IAF)	274153.2N 0150014.3W
LECOP	280702.3N 0150453.7W
LIFED	275814.5N 0150515.9W
LP11N (IF)	280655.2N 0151811.2W
LP515	274657.6N 0152033.9W
LP516	274506.0N 0151713.6W
LP517	274706.0N 0151351.0W
LP6NE (FAF)	280155.2N 0152024.1W
LPC (IAF)	274942.7N 0152556.1W
MADAS (IAF)	281315.5N 0152244.1W
RW21L (MAPT LNAV)	275639.2N 0152243.9W
SUFEM	280255.9N 0150642.7W
TOCUN	280853.9N 0151013.0W
Non-precision final approach (LNAV) - Slope (Descent angle)	5.32 % (3.05°)
APV Baro-VNAV final approach (LNAV/VNAV) - Slope (Descent angle)	5.32 % (3.05°)

CRITICAL DME

FACILITY (ID)	FREQ/CH	COORD
GRAN CANARIA (GDV)	112.90 MHz CH 76X	280437.6297N 0152542.8144W
GRAN CANARIA SUR (LPC)	115.00 MHz CH 97X	274943.2149N 0152555.9428W

NOTES APPLICABLE TO ALL APPROACHES:

- RNP APCH.
- Speed control:
 - a. MAX IAS 250 kt to FL100 or below, except military flights on operational or air defence missions or when the operational characteristics do not allow for it.
 - b. If any different instructions are not received by ATC cross:
 - MADAS, ENETA and LALTO at 220 kt,
 - P11N at 210 kt,
 - 9.0NM RW21L at IAS 190 kt, and
 - 4.0NM RW21L at IAS160 kt.
 - c. In the event of being unable to comply with it (b), notify it to ATC at the first communication.

PROCEDURE TABULAR DESCRIPTION

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ENETA (IAF) Subject to GCD51 and GCD54 activity.											
001	IF	ENETA	-	-	+3.5	-	-	+5000 (1)	-220	-	RNP APCH
002	TF	NINGU	-	323 (319.9)	+3.5	4.9	-	-	-	-	RNP APCH
003	TF	SUFEM	-	323 (319.8)	+3.5	4.9	-	-	-	-	RNP APCH
004	TF	LECOP	-	025 (021.4)	+3.5	4.4	-	-	-	-	RNP APCH
005	TF	TOCUN	-	295 (291.5)	+3.5	5.1	-	-	-	-	RNP APCH
006	TF	LP11N	-	258 (254.4)	+3.5	7.3	-	+2500	-	-	RNP APCH
007	TF	LP6NE	-	205 (201.5)	+3.5	5.4	-	+1900	-	-	RNP APCH
008	TF	RW21L	Y	205 (201.4)	+3.5	5.6	-	+75	-	3.0/49	RNP APCH
009	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNP APCH
010	DF	LP515	-	-	+3.5	-	-	-	-	-	RNP APCH
011	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNP APCH
012	CA	-	-	060 (056.3)	+3.5	-	-	+3000	-210	-	RNP APCH
013	VM	-	-	060 (056.3)	+3.5	-	-	-	-	-	RNP APCH
FRUSTRADA FALLO DE COMUNICACIONES											
009	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNP APCH
010	DF	LP515	-	-	+3.5	-	-	-	-	-	RNP APCH
011	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNP APCH
012	TF	LP517	-	060 (056.3)	+3.5	3.6	-	@3000	-210	-	RNP APCH
013	TF	ENETA	-	060 (056.3)	+3.5	15.1	-	@4000	-220	-	RNP APCH
Minimum altitude 4000 ft under ATC clearance and missed approach.											

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
LALTO (IAF) Subject to GCD51 and GCD54 activity.											
001	IF	LALTO	-	-	+3.5	-	-	+5000	-220	-	RNP APCH
002	TF	GOPIM	-	348 (344.7)	+3.5	12.1	-	-	-	-	RNP APCH
003	TF	LIFED	-	348 (344.7)	+3.5	4.9	-	-	-	-	RNP APCH
004	TF	SUFEM	-	348 (344.7)	+3.5	4.8	-	-	-	-	RNP APCH
005	TF	LECOP	-	025 (021.4)	+3.5	4.4	-	-	-	-	RNP APCH
006	TF	TOCUN	-	295 (291.5)	+3.5	5.1	-	-	-	-	RNP APCH
007	TF	LP11N	-	258 (254.4)	+3.5	7.3	-	+2500	-	-	RNP APCH
008	TF	LP6NE	-	205 (201.5)	+3.5	5.4	-	+1900	-	-	RNP APCH
009	TF	RW21L	Y	205 (201.4)	+3.5	5.6	-	+75	-	3.0/49	RNP APCH
010	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNP APCH
011	DF	LP515	-	-	+3.5	-	-	-	-	-	RNP APCH
012	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNP APCH
013	CA	-	-	060 (056.3)	+3.5	-	-	+3000	-210	-	RNP APCH
014	VM	-	-	060 (056.3)	+3.5	-	-	-	-	-	RNP APCH
FRUSTRADA FALLO DE COMUNICACIONES											
010	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNP APCH
011	DF	LP515	-	-	+3.5	-	-	-	-	-	RNP APCH
012	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNP APCH
013	TF	LP517	-	060 (056.3)	+3.5	3.6	-	@3000	-210	-	RNP APCH
014	TF	ENETA	-	060 (056.3)	+3.5	15.1	-	@4000	-220	-	RNP APCH



Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
LPC (IAF) Subject to GCD51 and GCD54 activity.											
001	IF	LPC	-	-	+3.5	-	-	+FL075	-210	-	RNP APCH
002	TF	SUFEM	-	056 (052.2)	+3.5	21.5	-	-	-	-	RNP APCH
003	TF	LECOP	-	025 (021.4)	+3.5	4.4	-	-	-	-	RNP APCH
004	TF	TOCUN	-	295 (291.5)	+3.5	5.1	-	-	-	-	RNP APCH
005	TF	LP11N	-	258 (254.4)	+3.5	7.3	-	+2500	-	-	RNP APCH
006	TF	LP6NE	-	205 (201.5)	+3.5	5.4	-	+1900	-	-	RNP APCH
007	TF	RW21L	Y	205 (201.4)	+3.5	5.6	-	+75	-	3.0/49	RNP APCH
008	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNP APCH
009	DF	LP515	-	-	+3.5	-	-	-	-	-	RNP APCH
010	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNP APCH
011	CA	-	-	060 (056.3)	+3.5	-	-	+3000	-210	-	RNP APCH
012	VM	-	-	060 (056.3)	+3.5	-	-	-	-	-	RNP APCH
MISSED APCH COMMUNICATIONS FAILURE											
008	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNP APCH
009	DF	LP515	-	-	+3.5	-	-	-	-	-	RNP APCH
010	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNP APCH
011	TF	LP517	-	060 (056.3)	+3.5	3.6	-	@3000	-210	-	RNP APCH
012	TF	ENETA	-	060 (056.3)	+3.5	15.1	-	@4000	-220	-	RNP APCH

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
MADAS (IAF) Subject to GCD51, GCD53 and GCD54 activity.											
001	IF	MADAS	-	-	+3.5	-	-	+6000	-220	-	RNP APCH
002	TF	LP11N	-	151 (147.5)	+3.5	7.5	-	+2500	-	-	RNP APCH
003	TF	LP6NE	-	205 (201.5)	+3.5	5.4	-	+1900	-	-	RNP APCH
004	TF	RW21L	Y	205 (201.4)	+3.5	5.6	-	+75	-	3.0/49	RNP APCH
005	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNP APCH
006	DF	LP515	-	-	+3.5	-	-	-	-	-	RNP APCH
007	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNP APCH
008	CA	-	-	060 (056.3)	+3.5	-	-	+3000	-210	-	RNP APCH
009	VM	-	-	060 (056.3)	+3.5	-	-	-	-	-	RNP APCH
MISSED APCH COMMUNICATIONS FAILURE											
005	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNP APCH
006	DF	LP515	-	-	+3.5	-	-	-	-	-	RNP APCH
007	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNP APCH
008	TF	LP517	-	060 (056.3)	+3.5	3.6	-	@3000	-210	-	RNP APCH
009	TF	ENETA	-	060 (056.3)	+3.5	15.1	-	@4000	-220	-	RNP APCH

HOLDING PATTERN

Path terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
HM	ENETA (1)	260 (256.4)	+3.5	1	R	5000 (5)	-	-220	RNAV1
HM	LALTO (3)	230 (226.4)	+3.5	1	L	5000	-	-220	RNAV1
HM	LPC (4)	024 (020.9)	+3.5	1	R	FL075	-	-210	RNAV1



Path terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
HM	MADAS	201 (197.3)	+3.5	1	R	6000	-	-220	RNAV1
(1) GNSS or (DME/DME) or (DME/DME/IRU) required; - DME LPC, GDV must be operational for (DME/DME). - DME LPC must be operational for (DME/DME/IRU). (2) Minimum altitude 4000 ft under ATC clearance and missed APCH. (3) GNSS required. (4) GNSS o (DME/DME) required; - DME LPC must be operational for (DME/DME).									