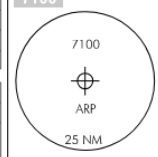


BILBAO
RNP Z
RWY 12 (LPV ONLY)



ALT/HGT RW12 FNA												
13	12	11	10	9	8	7	6	5	4	3	2	1
				3210 (3090)	2870 (2750)	2530 (2410)	2190 (2070)	1850 (1730)	1510 (1390)	1170 (1050)		

AIRAC AMDT 10/26 ←

AERONAUTICAL DATABASE REQUIREMENTS

INSTRUMENT APPROACH PROCEDURES

RNP Z (LPV ONLY) RWY 12

WAYPOINTS COORDINATES

WPT	COORD
ASPES (IAF)	432956.3N 0030929.7W
BB10W (FAP)	432247.2N 0030733.9W
BB13W (IF)	432411.6N 0031126.1W
BB802	4432825.8N 0030352.0W
BB803	432533.5N 0031506..7W
BB804	431514.2N 0024656.1W
KUXUN (IAF)	432907.0N 0031911.3W
OLMET (IAF)	432022.6N 0031633.0W
RW12	431822.8N 0025529.8W
SUNIR (IAF)	432303.5N 0030732.3W
Precision final approach (SBAS Cat. I) - Slope (Descent angle)	3.10° (5.42%)

CRITICAL DME

FACILITY (ID)	FREQ/CH	COORD
BILBAO (BLV)	117.650 MHz CH 123Y	431815.4945N 0025530.9468W

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)	Navegation specification
ASPES (IAF)											
001	IF	ASPES	-	-	-0.7	-	-	+4000	-	-	RNP APCH
002	TF	BB803	-	222 (223.1)	-0.7	6.0	-	-	-230	-	RNP APCH
003	TF	BB13W	-	116 (117.0)	-0.7	3.0	-	-	-	-	RNP APCH
004	TF	BB10W	-	116 (116.5)	-0.7	3.2	-	+3500	-	-	RNP APCH
005	TF	RW12	Y	116 (116.5)	-0.7	9.8	-	+174	-	-3.1 / 54	RNP APCH
006	CF	BB804	Y	116 (116.6)	-0.7	-	-	-	-	-	RNP APCH
007	DF	ASPES	-	-	-0.7	-	L	+4000	-	-	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)	Navegation specification
KUXUN (IAF)											
001	IF	KUXUN	-	-	-0.7	-	-	+4000	-	-	RNP APCH
002	TF	BB803	-	139 (140.1)	-0.7	4.6	-	-	-230	-	RNP APCH
003	TF	BB13W	-	116 (117.0)	-0.7	3.0	-	-	-	-	RNP APCH
004	TF	BB10W	-	116 (116.5)	-0.7	3.2	-	+3500	-	-	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)	Navegation specification
005	TF	RW12	Y	116 (116.5)	-0.7	9.8	-	+174	-	-3.1 / 54	RNP APCH
006	CF	BB804	Y	116 (116.6)	-0.7	-	-	-	-	-	RNP APCH
007	DF	ASPES	-	-	-0.7	-	L	+4000	-	-	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)	Navegation specification
OLMET (IAF)											
001	IF	OLMET	-	-	-0.7	-	-	+4500	-	-	RNP APCH
002	TF	BB803	-	011 (011.4)	-0.7	5.3	-	-	-230	-	RNP APCH
003	TF	BB13W	-	116 (117.0)	-0.7	3.0	-	-	-	-	RNP APCH
004	TF	BB10W	-	116 (116.5)	-0.7	3.2	-	+3500	-	-	RNP APCH
005	TF	RW12	Y	116 (116.5)	-0.7	9.8	-	+174	-	-3.1 / 54	RNP APCH
006	CF	BB804	Y	116 (116.6)	-0.7	-	-	-	-	-	RNP APCH
007	DF	ASPES	-	-	-0.7	-	L	+4000	-	-	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)	Navegation specification
SUNIR (IAF)											
001	IF	SUNIR	-	-	-0.7	-	-	+4000	-	-	RNP APCH
002	TF	BB802	-	026 (026.5)	-0.7	6.0	-	-	-230	-	RNP APCH
003	TF	ASPES	-	290 (290.2)	-0.7	4.4	-	-	-	-	RNP APCH
004	TF	BB803	-	222 (223.1)	-0.7	6.0	-	-	-	-	RNP APCH
005	TF	BB13W	-	116 (117.0)	-0.7	3.0	-	-	-	-	RNP APCH
006	TF	BB10W	-	116 (116.5)	-0.7	3.2	-	+3500	-	-	RNP APCH
007	TF	RW12	Y	116 (116.5)	-0.7	9.8	-	+174	-	-3.1 / 54	RNP APCH
008	CF	BB804	Y	116 (116.6)	-0.7	-	-	-	-	-	RNP APCH
009	DF	ASPES	-	-	-0.7	-	L	+4000	-	-	RNP APCH

HOLDING PATTERN

Path terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
HM	ASPES (1)	222 (223.1)	-0.7	3.8	L	4000	-	-210	RNAV 1
HM	SUNIR (2)	119 (119.7)	-0.7	4.0	L	4000	-	-220	RNAV 1

(1) GNSS or (DME/DME) require;
- DME BLV must be operational for (DME/DME).

(2) GNSS required.

SBAS LPV FAS DATA BLOCK

FAS DATA BLOCK		
1	OPERATION TYPE	0
2	SBAS PROVIDER	01*
3	AIRPORT IDENTIFIER	LEBB
4	RUNWAY	12
5	APPROACH PERFORMANCE DESIGNATOR	0**
6	ROUTE INDICATOR	Z
7	REFERENCE PATH DATA SELECTOR	00
8	REFERENCE PATH IDENTIFIER	E12A***
9	LTP/FTP LATITUDE	431822.8695N
10	LTP/FTP LONGITUDE	0025529.7495W

FAS DATA BLOCK		
11	LTP/FTP ELLIPSOIDAL HEIGHT (METRES)	85.8
12	FPAP LATITUDE	431745.9110N
13	FPAP LONGITUDE	0025349.0185W
14	THRESHOLD CROSSING HEIGHT	16.5
15	TCH UNITS SELECTOR	[1] M
16	GLIDEPATH ANGLE (DEGREES)	3.10
17	COURSE WIDTH (METRES)	105.0
18	LENGTH OFFSET (METRES)	0.0
19	HORIZONTAL ALERT LIMIT (HAL)	40.0
20	VERTICAL ALERT LIMIT (VAL)	35.0
21	PRECISION APPROACH PAT POINT CRC REMINDER	53531C84
Non-FAS Data Block Fields		
22	ICAO Code	LE
23	LTP ORTHOMETRIC HEIGHT	36.3
NOTES:		
*: This value "01" identifies EGNOS as service provider.		
**: LPV CAT I SBAS.		
***: "E" refers to EGNOS.		