



BOLOGNA/Borgo Panigale
SID RNAV1 or RNP1 RWY 12

NOISE ABATEMENT PROCEDURES RWY 12

See AD 2 Table 21 “NOISE ABATEMENT PROCEDURES”

Initial climb description

After take-off proceed on TR 098°, passing 800 FT turn left to join the assigned SID.

Minimum climb gradient: 7.3% (445 FT/NM) until passing 4000 FT.

SID description

Initial climb procedure executed:

LOMED 6X

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	113 (116.7)	3.2°	-	-	+520	-	RNAV1/RNP1 (1)
CA	-	-	098 (101.0)	3.2°	-	-	+800	-	RNAV1/RNP1 (1)
CF	PE601	Y	037 (040.0)	3.2°	-	L	+4000	-200	RNAV1/RNP1 (1)
CF	PE602	-	214 (217.0)	3.2°	-	L	-	-230	RNAV1/RNP1 (1)
TF	PE603	-	214 (217.7)	-	6.8	-	-	-	RNAV1/RNP1 (1)
TF	PE604	-	214 (217.6)	-	6.5	-	+6000	-	RNAV1/RNP1 (1)
TF	PE613	-	199 (202.0)	-	7.1	-	+FL90	-	RNAV1/RNP1 (1)
TF	PE606	-	199 (202.0)	-	6.9	-	+FL110	-	RNAV1/RNP1 (1)
TF	LOMED	-	168 (171.6)	-	12.3	-	-	-	RNAV1/RNP1 (1)

LOMED 6Y (ATC DISCRETION)

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	113 (116.7)	3.2°	-	-	+520	-	RNAV1/RNP1 (1)
CA	-	-	098 (101.0)	3.2°	-	-	+800	-	RNAV1/RNP1 (1)
CF	PE601	Y	037 (040.0)	3.2°	-	L	+4000	-200	RNAV1/RNP1 (1)
CF	PE607	-	209 (211.9)	3.2°	-	R	-	-230	RNAV1/RNP1 (1)
TF	PE614	-	209 (211.9)	-	18.2	-	+FL110	-	RNAV1/RNP1 (1)
TF	LOMED	-	209 (211.8)	-	18.3	-	-	-	RNAV1/RNP1 (1)

LUMAV 7X

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	113 (116.7)	3.2°	-	-	+520	-	RNAV1/RNP1 (1)
CA	-	-	098 (101.0)	3.2°	-	-	+800	-	RNAV1/RNP1 (1)
CF	PE601	Y	037 (040.0)	3.2°	-	L	+4000	-200	RNAV1/RNP1 (1)
TF	LUMAV	-	037 (039.9)	-	13.2	-	-	-	RNAV1/RNP1 (1)

LUPOS 8X

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	113 (116.7)	3.2°	-	-	+520	-	RNAV1/RNP1 (1)
CA	-	-	098 (101.0)	3.2°	-	-	+800	-	RNAV1/RNP1 (1)
CF	PE601	Y	037 (040.0)	3.2°	-	L	+4000	-200	RNAV1/RNP1 (1)
CF	PE602	-	214 (217.0)	3.2°	-	L	-	-230	RNAV1/RNP1 (1)
TF	PE603	-	214 (217.7)	-	6.8	-	-	-	RNAV1/RNP1 (1)
TF	PE367	-	263 (266.5)	-	13.6	-	-	-	RNAV1/RNP1 (1)
TF	LUPOS	-	263 (266.3)	-	12.0	-	+FL100	-	RNAV1/RNP1 (1)

LUPOS 9H

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	113 (116.7)	3.2°	-	-	+520	-	RNAV1/RNP1 (1)
CA	-	-	098 (101.0)	3.2°	-	-	+800	-	RNAV1/RNP1 (1)
CF	PE601	Y	037 (040.0)	3.2°	-	L	+4000	-200	RNAV1/RNP1 (1)
CF	PE607	-	209 (211.9)	-	-	R	-	-230	RNAV1/RNP1 (1)
TF	PE603	-	263 (266.7)	-	11.7	-	-	-	RNAV1/RNP1 (1)
TF	PE367	-	263 (266.5)	-	13.6	-	-	-	RNAV1/RNP1 (1)
TF	LUPOS	-	263 (266.3)	-	12.0	-	+FL100	-	RNAV1/RNP1 (1)

PELEG 7X (ATC DISCRETION)

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	113 (116.7)	3.2°	-	-	+520	-	RNAV1/RNP1 (1)
CA	-	-	098 (101.0)	3.2°	-	-	+800	-	RNAV1/RNP1 (1)
CF	PE601	Y	037 (040.0)	3.2°	-	L	+4000	-200	RNAV1/RNP1 (1)
CF	PE602	-	214 (217.0)	3.2°	-	L	-	-230	RNAV1/RNP1 (1)
TF	PE603	-	214 (217.7)	-	6.8	-	-	-	RNAV1/RNP1 (1)
TF	PE604	-	214 (217.6)	-	6.5	-	+6000	-	RNAV1/RNP1 (1)
TF	PE614	-	144 (147.4)	-	11.4	-	+FL110	-	RNAV1/RNP1 (1)
TF	PE608	-	090 (093.2)	-	11.2	-	+FL120	-	RNAV1/RNP1 (1)
TF	PELEG	-	102 (104.9)	-	11.1	-	-	-	RNAV1/RNP1 (1)

PELEG 7H

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	113 (116.7)	3.2°	-	-	+520	-	RNAV1/RNP1 (1)
CA	-	-	098 (101.0)	3.2°	-	-	+800	-	RNAV1/RNP1 (1)
CF	PE601	Y	037 (040.0)	3.2°	-	L	+4000	-200	RNAV1/RNP1 (1)
CF	PE607	-	209 (211.9)	3.2°	-	R	-	-230	RNAV1/RNP1 (1)
TF	PE608	-	171 (174.2)	-	16.2	-	+FL120	-	RNAV1/RNP1 (1)
TF	PELEG	-	102 (104.9)	-	11.1	-	-	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation.

Waypoint Identifier	Coordinates
PE367	44°31'04.69" N 010°51'37.70" E
PE601	44°38'44.63" N 011°25'04.27" E
PE602	44°37'19.53" N 011°16'23.14" E
PE603	44°31'55.61" N 011°10'33.52" E
PE604	44°26'45.91" N 011°05'00.58" E
PE606	44°13'47.25" N 010°57'43.10" E
PE607	44°32'37.03" N 011°26'54.42" E
PE608	44°16'32.23" N 011°29'09.79" E
PE613	44°20'10.67" N 011°01'18.07" E
PE614	44°17'10.98" N 011°13'32.02" E

SID RNAV1/RNP1 (1) RWY 30 BOLOGNA/Borgo Panigale**Initial climb description**

After take-off proceed on runway heading until PE611 then follow the assigned SID.

Minimum climb gradient: 7.3% (445 FT/NM) until passing FL90.

SID description

Initial climb procedure executed:

LOMED 6Z

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	293 (296.7)	+3.2	-	-	+530	-	RNAV1/RNP1 (1)
CF	PE611	Y	293 (296.7)	+3.2	-	-	+2400	-	RNAV1/RNP1 (1)
TF	PE612	Y	293 (296.6)	-	6.0	-	+5000	-	RNAV1/RNP1 (1)
CF	PE613	-	166 (169.0)	+3.2	-	L	+FL 90	-230	RNAV1/RNP1 (1)
TF	PE606	-	199 (202.0)	-	6.9	-	+FL110	-	RNAV1/RNP1 (1)
TF	LOMED	-	168 (171.6)	-	12.3	-	-	-	RNAV1/RNP1 (1)

LUMAV 6Z

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	293 (296.7)	+3.2	-	-	+530	-	RNAV1/RNP1 (1)
CF	PE611	Y	293 (296.7)	+3.2	-	-	+2400	-	RNAV1/RNP1 (1)
CF	PE609	-	062 (064.8)	+3.2	-	-	+5000	-	RNAV1/RNP1 (1)
TF	LUMAV	-	062 (064.8)	-	11.0	-	-	-	RNAV1/RNP1 (1)

LUPOS 7Z

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	293 (296.7)	+3.2	-	-	+530	-	RNAV1/RNP1 (1)
CF	PE611	Y	293 (296.7)	+3.2	-	-	+2400	-	RNAV1/RNP1 (1)
TF	PE612	Y	293 (296.6)	-	6.0	-	+5000	-	RNAV1/RNP1 (1)
CF	PE366	-	263 (266.2)	+3.2	-	-	-	-230	RNAV1/RNP1 (1)
TF	LUPOS	-	263 (266.2)	-	6.1	-	+FL 100	-	RNAV1/RNP1 (1)

PELEG 7Z

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Performance
CA	-	-	293 (296.7)	+3.2	-	-	+530	-	RNAV1/RNP1 (1)
CF	PE611	Y	293 (296.7)	+3.2	-	-	+2400	-	RNAV1/RNP1 (1)
DF	PE604	-	-	-	-	-	+6000	-	RNAV1/RNP1 (1)
TF	PE614	-	144 (147.4)	-	11.4	-	+FL110	-	RNAV1/RNP1 (1)
TF	PE608	-	090 (093.2)	-	11.2	-	+FL120	-	RNAV1/RNP1 (1)
TF	PELEG	-	102 (104.9)	-	11.1	-	-	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation.

Waypoint Identifier	Coordinates
PE366	44°30'41.43" N 010°43'21.02" E
PE604	44°26'45.91" N 011°05'00.58" E
PE606	44°13'47.25" N 010°57'43.10" E
PE608	44°16'32.23" N 011°29'09.79" E
PE609	44°44'11.65" N 011°23'00.25" E
PE611	44°34'48.04" N 011°09'52.35" E
PE612	44°37'29.15" N 011°02'21.65" E
PE613	44°20'10.67" N 011°01'18.07" E
PE614	44°17'10.98" N 011°13'32.02" E

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NOISE ABATEMENT PROCEDURE RWY 12

See AD 2 Table 21 “NOISE ABATEMENT PROCEDURES”

Initial climb description

After take-off proceed on TR 098°, passing 800 FT turn left to join the assigned SID.

Minimum climb gradient: 7.3% (445 FT/NM) until passing 4000 FT.

SID DESCRIPTION RWY 12

Initial climb procedure executed:

LOMED 7L

Join and follow RDL 037 BOA VOR until 10 NM BOA DME, then turn left until joining RDL 014 BOA VOR (TR 194°) to BOA VOR/DME, then proceed to LOMED.

MCA/MCL: RDL 037/10 NM BOA VOR/DME 4000FT; BOA VOR/DME: 6000FT; RDL 199/12 NM BOA VOR/DME: FL 90; LOMED: FL 110

LUMAV 9L

Join and follow RDL 037 BOA VOR to LUMAV.

MCA/MCL: RDL 037/14 NM BOA VOR/DME: 5000 FT; LUMAV at assigned level

LUPOS 1L

Join and follow RDL 037 BOA VOR until 10 NM BOA DME, then turn left until joining RDL 014 BOA VOR (TR 194°) bound to BOA VOR/DME, then proceed bound to point LUPOS.

MCA/MCL: RDL 037/10 NM BOA VOR/DME 4000FT; BOA VOR/DME: 6000FT; LUPOS: FL 100

PELEG 8L

Join and follow RDL 037 BOA VOR until 10 NM BOA DME, then turn left until joining RDL 014 BOA VOR (TR 194°) to BOA VOR/DME, then proceed bound to point PELEG.

MCA/MCL: RDL 037/10 NM BOA VOR/DME: 4000FT, BOA VOR/DME: 6000FT,
RDL 131/19 NM BOA VOR/DME: FL 120 (FL80 ATC DISCRETION ONLY)

INITIAL CLIMB PROCEDURE RWY 30**Initial climb description**

After take-off proceed on RDL 293 BOA VOR (TR 293°) until 6 NM BOA DME, then:

- a) if cleared via SID LUMAV 6V turn right on TR 098° until joining RDL 037 BOA VOR;
- b) If cleared via SID LOMED 6V, LUPOS 7V or PELEG 7V turn right and proceed bound to BOA VOR;
- c) If cleared via SID LUPOS 7T proceed on RDL 293 BOA VOR until 12 NM BOA DME, then turn left (IAS MAX 230 KT) to join the assigned SID

Minimum climb gradient: 7.3% (445 FT/NM) until passing 5000 FT.

MCA: RDL 293/6 NM BOA VOR/DME 2200 FT; RDL 293/12 NM BOA VOR/DME: 5000 FT

REMARK

**Aircraft noise and radar track monitoring system operative.
Pilots are requested to perform strictly noise abatement procedure.**

SID DESCRIPTION RWY 30

Initial climb procedure executed:

LOMED 6V

Proceed via BOA VOR/DME – LOMED.

MCA/MCL: BOA VOR/DME: 6000FT; RDL 199/12 NM BOA VOR/DME: FL 90; LOMED: FL 110

LUMAV 6V

Proceed on RDL 037 BOA VOR to LUMAV.

MCA/MCL: RDL 037/14NM BOA VOR/DME 5000FT; LUMAV at assigned level

LUPOS 7T

Join and follow RDL 242 CHI VOR (TR 242°) to LUPOS.

MCL: LUPOS: FL 100

LUPOS 7V

Proceed via BOA VOR/DME – LUPOS.

MCA/MCL: BOA VOR/DME: 6000FT; LUPOS: FL 100

PELEG 7V

Proceed via BOA VOR/DME – PELEG.

MCA/MCL: BOA VOR/DME 6000FT, RDL131/19 NM BOA VOR/DME FL120 (FL80 ATC DISCRETION ONLY)