

STAR Roma/Ciampino**ALAXI 1F**ALAXI – PEMAR – RA404 – RA406⁽¹⁾ – RA407⁽²⁾ – LOCRI.MEL/MEA: ALAXI – PEMAR: FL 110; PEMAR – RA404: FL 100; RA404⁽³⁾ – RA406: 6000FT; RA406⁽⁴⁾ – LOCRI: 3000 FT

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/Range to Navaid	Navigation Performance
IF	ALAXI	-	-	-	+FL110	250	-	-	Conventional/RNAV1
TF	PEMAR	-	309°	-	+FL110	230	-	-	Conventional/RNAV1
TF	RA404	-	280°	-	+FL100	-	-	-	Conventional/RNAV1
TF	RA406	-	280°	-	+6000FT	210	-	-	Conventional/RNAV1
TF	RA407	-	197°	-	+3000FT	210	-	-	Conventional/RNAV1
TF	LOCRI	-	149°	-	+3000FT	210	-	-	Conventional/RNAV1

(1) For conventional navigation performance the turn to RA407 shall start at RDL100/D9 CMP VOR/DME

(2) For conventional navigation performance the turn to LOCRI shall start at INT TR197°/D16 OST DME

(3) For conventional navigation performance, MEL 90 shall start at RDL100/D15 CMP VOR/DME

(4) For conventional navigation performance, MEA 3000FT shall start after turn to RA407, stabilized on TR197°

ELKAP 4F (ATC DISCRETION)

ELKAP – BIBEK – RA411 – CMP VOR/DME.

MEL/MEA: ELKAP – BIBEK: FL 190; BIBEK – RA411: FL 100; RA411⁽¹⁾– CMP VOR/DME: 5000 FT

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/Range to Navaid	Navigation Performance
IF	ELKAP		-	-	-	270	-	-	Conventional/RNAV1
TF	BIBEK		119°	-	+FL190	250	-	-	Conventional/RNAV1
TF	RA411		107°	-	+FL100	-	-	-	Conventional/RNAV1
TF	CMP		107°	-	+5000FT	230	-	-	Conventional/RNAV1

(1) For conventional navigation performance, MEA 5000FT shall start at RDL 287/D16 CMP VOR/DME to CMP VOR/DME

ELKAP 2H

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/Range to Navaid	Navigation Performance
IF	ELKAP	-	-	-	-	270	-	-	RNAV 1
TF	BIBEK	-	119°	-	+FL190	250	-	-	RNAV 1
TF	RA421	-	089°	R	+FL100	230	-	-	RNAV 1
TF	TIBER	-	186°	-	+TRL	230	-	-	RNAV 1
TF	RA406	-	197°	-	+6000FT	210	-	-	RNAV 1
TF	RA407	-	197°	-	+3000FT	210	-	-	RNAV 1
TF	LOCRI	-	149°	-	+3000FT	210	-	-	RNAV 1

ESINO 4FESINO – TORLI – OST VOR/DME – RA409⁽¹⁾ – RA408⁽²⁾ – RA407 – LOCRI.

MEA: ESINO – OST VORDME: 5000 FT; OST VOR/DME – LOCRI: 3000 FT

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/Range to Navaid	Navigation Performance
IF	ESINO	-	-	-	+5000FT	270	-	-	Conventional/RNAV 1
TF	TORLI	-	035°	-	+5000FT	250	-	-	Conventional/RNAV 1
TF	OST	-	035°	-	+5000FT	230	-	-	Conventional/RNAV 1
TF	RA409	-	015°	-	+3000FT	210	-	-	Conventional/RNAV 1
TF	RA408	-	089°	-	+3000FT	210	-	-	Conventional/RNAV 1
TF	RA407	-	149°	-	+3000FT	210	-	-	Conventional/RNAV 1
TF	LOCRI	-	149°	-	+3000FT	210	-	-	Conventional/RNAV 1

(1) For conventional navigation performance the turn to RA408 shall start at RDL015/D12 OST VOR/DME

(2) For conventional navigation performance the turn to RA407 shall start at INT TR089°/RDL165 CMP VOR

ESINO 3H (ATC DISCRETION)ESINO – TORLI – OST VOR/DME – RA417⁽¹⁾ – RA404⁽²⁾ – RA406⁽³⁾ – RA407⁽⁴⁾ – LOCRI.MEL/MEA: ESINO – RA404: FL90; RA404 – RA406: 6000FT; RA406⁽⁵⁾ – LOCRI: 3000 FT

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/Range to Navaid	Navigation Performance
IF	ESINO	-	-	-	+FL90	270	-	-	Conventional/RNAV 1
TF	TORLI	-	035°	-	+FL90	250	-	-	Conventional/RNAV 1
TF	OST	-	035°	-	+FL90	230	-	-	Conventional/RNAV 1
TF	RA417	-	066°	-	+FL90	210	-	-	Conventional/RNAV 1
TF	RA404	-	340°	-	+FL90	210	-	-	Conventional/RNAV 1
TF	RA406	-	280°	-	+6000FT	210	-	-	Conventional/RNAV 1
TF	RA407	-	197°	-	+3000FT	210	-	-	Conventional/RNAV 1
TF	LOCRI	-	149°	-	+3000FT	210	-	-	Conventional/RNAV 1

(1) For conventional navigation performance the turn to RA404 shall start at RDL066/D23 OST VOR/DME

(2) For conventional navigation performance the turn to RA406 shall start at RDL340/D31 LAT VOR/DME

(3) For conventional navigation performance the turn to RA407 shall start at RDL100/D9 CMP VOR/DME

(4) For conventional navigation performance the turn to LOCRI shall start at INT TR197°/D16 OST DME

(5) For conventional navigation performance, MEA 3000FT shall start after turn to RA407, stabilized on TR197°

GITOD 2FGITOD – RA421 - TIBER – RA406 – RA407⁽¹⁾ – LOCRI.MEL/MEA: GITOD – RA421: FL100; RA421 - TIBER: TRL; TIBER – RA406: 6000 FT; RA406⁽²⁾ – LOCRI: 3000 FT

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/Range to Navaid	Navigation Performance
IF	GITOD	-	-	-	-	250	-	-	Conventional/RNAV1
TF	RA421	-	146°	-	+FL100	-	-	-	Conventional/RNAV1
TF	TIBER	-	186°	-	+TRL	230	-	-	Conventional/RNAV1
TF	RA406	-	197°	-	+6000FT	210	-	-	Conventional/RNAV1
TF	RA407	-	197°	-	+3000FT	210	-	-	Conventional/RNAV1
TF	LOCRI	-	149°	-	+3000FT	210	-	-	Conventional/RNAV1

(1) For conventional navigation performance the turn to LOCRI shall start at INT TR197°/D16 OST DME

(2) For conventional navigation performance, MEA 3000FT shall start at INT TR197°/D22 OST DME (or INT TR197°/RDL100 CMP VOR)

LAT 1FLAT VOR/DME – RA404⁽¹⁾ – RA406⁽²⁾ – RA407⁽³⁾ – LOCRI.MEL/MEA: LAT VOR/DME – RA404: FL 90; RA404 - RA406⁽⁴⁾:6000 FT; RA406⁽⁴⁾– LOCRI: 3000 FT

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/Range to Navaid	Navigation Performance
IF	LAT	-	-	-	+FL90	250	-	-	Conventional/RNAV1
TF	RA404	-	340°	-	+FL90	210	-	-	Conventional/RNAV1
TF	RA406	-	280°	-	+6000FT	210	-	-	Conventional/RNAV1
TF	RA407	-	197°	-	+3000FT	210	-	-	Conventional/RNAV1
TF	LOCRI	-	149°	-	+3000FT	210	-	-	Conventional/RNAV1

(1) For conventional navigation performance the turn to RA406 shall start at RDL340/D31 LAT VOR/DME

(2) For conventional navigation performance the turn to RA407 shall start at RDL100/D09 CMP VOR/DME

(3) For conventional navigation performance the turn to LOCRI shall start at INT TR197°/D16 OST DME

(4) For conventional navigation performance, MEA 3000FT shall start after turn to RA407, stabilized on TR197°

MOPUV 1FMOPUV – DESUK – PEMAR – RA404 – RA406⁽¹⁾ – RA407⁽²⁾ – LOCRI.MEL/MEA: MOPUV – DESUK: FL 120; DESUK – RA404: FL 100; RA404⁽³⁾ – RA406: 6000FT; RA406⁽⁴⁾ – LOCRI: 3000 FT

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/Range to Navaid	Navigation Performance
IF	MOPUV	-	-	-	+FL120	250	-	-	Conventional/RNAV 1
TF	DESUK	-	236°	-	+FL120	230	-	-	Conventional/RNAV 1
TF	PEMAR	-	279°	-	+FL100	-	-	-	Conventional/RNAV 1
TF	RA404	-	280°	-	+FL100	-	-	-	Conventional/RNAV 1
TF	RA406	-	280°	-	+6000FT	210	-	-	Conventional/RNAV 1
TF	RA407	-	197°	-	+3000FT	210	-	-	Conventional/RNAV 1
TF	LOCRI	-	149°	-	+3000FT	210	-	-	Conventional/RNAV 1

(1) For conventional navigation performance the turn to RA407 shall start at RDL100/D9 CMP VOR/DME

(2) For conventional navigation performance the turn to LOCRI shall start at INT TR197°/D16 OST DME

(3) For conventional navigation performance, MEL 90 shall start at RDL100/D15 CMP VOR/DME

(4) For conventional navigation performance, MEA 3000FT shall start after turn to RA407, stabilized on TR197°

VALMA 4FVALMA – LUNAK – OST VOR/DME – RA409⁽¹⁾ – RA408⁽²⁾ – RA407 – LOCRI.

MEA: VALMA – OST VOR/DME: 5000 FT; OST VOR/DME – LOCRI: 3000 FT

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/Range to Navaid	Navigation Performance
IF	VALMA	-	-	-	+5000FT	270	-	-	Conventional/RNAV 1
TF	LUNAK	-	066°	-	+5000FT	250	-	-	Conventional/RNAV 1
TF	OST	-	066°	-	+5000FT	230	-	-	Conventional/RNAV 1
TF	RA409	-	015°	-	+3000FT	210	-	-	Conventional/RNAV 1
TF	RA408	-	089°	-	+3000FT	210	-	-	Conventional/RNAV 1
TF	RA407	-	149°	-	+3000FT	210	-	-	Conventional/RNAV 1
TF	LOCRI	-	149°	-	+3000FT	210	-	-	Conventional/RNAV 1

(1) For conventional navigation performance the turn to RA408 shall start at RDL015/D12 OST VOR/DME

(2) For conventional navigation performance the turn to RA407 shall start at INT TR089°/RDL165 CMP VOR

VALMA 3H (ATC DISCRETION)VALMA – LUNAK – OST VOR/DME – RA417⁽¹⁾ – RA404⁽²⁾ – RA406⁽³⁾ – RA407⁽⁴⁾ – LOCRIMEL/MEA: VALMA – RA404:FL90; RA404 – RA406: 6000FT; RA406⁽⁵⁾– LOCRI: 3000 FT

Path Terminator	Waypoint Name	Fly Over	Track °Mag	Turn Direction	Altitude Constraint	Speed Limit (IAS)	Recommended Navaid	Bearing/ Range to Navaid	Navigation Performance
IF	VALMA	-	-	-	+FL90	270	-	-	Conventional/RNAV1
TF	LUNAK	-	066°	-	+FL90	250	-	-	Conventional/RNAV1
TF	OST	-	066°	-	+FL90	230	-	-	Conventional/RNAV1
TF	RA417	-	066°	-	+FL90	210	-	-	Conventional/RNAV1
TF	RA404	-	340°	-	+FL90	210	-	-	Conventional/RNAV1
TF	RA406	-	280°	-	+6000FT	210	-	-	Conventional/RNAV1
TF	RA407	-	197°	-	+3000FT	210	-	-	Conventional/RNAV1
TF	LOCRI	-	149°	-	+3000FT	210	-	-	Conventional/RNAV1

(1) For conventional navigation performance the turn to RA404 shall start at RDL066/D23 OST VOR/DME

(2) For conventional navigation performance the turn to RA406 shall start at RDL340/D31 LAT VOR/DME

(3) For conventional navigation performance the turn to RA407 shall start at RDL100/D9 CMP VOR/DME

(4) For conventional navigation performance the turn to LOCRI shall start at INT TR197°/D16 OST DME

(5) For conventional navigation performance, MEA 3000FT shall start after turn to RA407, stabilized on TR197°

HOLDING RNAV 1 (for RNAV approach only)

Path Terminator	Waypoint Name	Inbound Track	Leg distance	Turn Direction	Altitude Constraint	Speed Limit	Magnetic Variation	Navigation Specification	Waypoint Distance (only for RNAV systems without RNAV functionality)
HF	LOCRI	149°	3.3	L	3000 (1)	185	3	RNAV 1	4

(1) MHA 6000 FT FOR TURBULENCE CONDITION

Waypoints Table formatted according ARINC 424 standards

Waypoint	Latitude	Longitude
RA404	N42035829	E012424575
RA406	N42055629	E012312928
RA407	N41585925	E012280372
RA408	N42013622	E012261455
RA409	N42014569	E012201971
RA411	N42130911	E012024781
RA417	N41570281	E012452940
RA421	N42234884	E012375260