

**STANDARD DEPARTURE ROUTES - INSTRUMENT
SID's**

**GRAZ
RWY 34C**

Calculation of the SID's is based on an all - engines operative minimum net climb gradient of 3.3% (205 FT/NM). Where a greater climb gradient for a specific SID (or part of SID) is necessary this is indicated in the description of the route. For obstacles in the vicinity of the aerodrome see Aerodrome Obstacle Chart Type B. If radar vectoring is provided the climb gradient of the cleared SID shall be continued.

Aircraft unable to comply with the prescribed climb gradients shall use departure route GRZ.

To expedite traffic, ATC may request aircraft to start the initial TURN with reference to terrain as soon as practical. In this case terrain clearance has to be assured by the pilot up to 3000 FT east of aerodrome / or 3500 FT west of aerodrome.

Designator	Route		After Take-Off		Remarks					
			Climb to ..initially	Expect FREQ						
ABIRI 5 U Abiri five uniform departure	Climb on track 344° to 2000 FT MSL - VOR/DME GRZ - WG608 - ABIRI		By ATC	GRAZ RADAR 119.300 MHZ	Climb gradient at least 5,1% (310 FT/NM) until passing 4500 FT MSL, thereafter 4,4% (270 FT/NM).					
Contact GRAZ RADAR when advised by Tower										
RNAV SID Coding Table of ABIRI 5 U										
Path Terminator	Waypoint			Course/ Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A2000		RNAV 1	
DF	GRZ	yes	N465719.12 E0152658.00			right	A4500+		RNAV 1	
DF	WG608	no	N465246.33 E0151532.21			right			RNAV 1	
TF	ABIRI	no	N464545.01 E0145803.26	235° (239.8)	13.9		A9000+		RNAV 1	

Designator	Route		After Take-Off		Remarks					
			Climb to ..initially	Expect FREQ						
ABIRI 3 V Abiri three victor departure	Climb on track 344° to 3500 FT MSL - WG608 - ABIRI		By ATC	GRAZ RADAR 119.300 MHZ	ATC DISCRETION ONLY Climb gradient at least 5,7% (350 FT/NM) until passing 3500 FT MSL, thereafter 3,6% (220 FT/NM).					
Contact GRAZ RADAR when advised by Tower										
RNAV SID Coding Table of ABIRI 3 V										
Path Terminator	Waypoint			Course/ Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A3500		RNAV 1	
DF	WG608	no	N465246.33 E0151532.21			left			RNAV 1	
TF	ABIRI	no	N464545.01 E0145803.26	235° (239.8)	13.9	right	A9000+	K265-	RNAV 1	

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Aircraft unable to comply with the prescribed climb gradients shall use departure route GRZ.

To expedite traffic, ATC may request aircraft to start the initial TURN with reference to terrain as soon as practical. In this case terrain clearance has to be assured by the pilot up to 3000 FT east of aerodrome / or 3500 FT west of aerodrome.

Designator	Route	After Take-Off		Remarks
		Climb to ..initially	Expect FREQ	
GBG 5 Y Gleichenberg five yankee departure	RNAV: Climb on track 344° to 2000 FT MSL - GBG Conventional: Climb on track 344 - when crossing 2000 FT MSL turn RIGHT immediately inbound to NDB GBG and enter the holding 5000 FT MSL or above	By ATC	GRAZ RADAR 119.300 MHZ	Climb gradient at least 5,1% (310 FT/NM) until passing 2000 FT MSL, thereafter 3,3% (205 FT/NM).

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RNAV SID Coding Table of GBG 5 Y

Path Terminator	Waypoint			Course/ Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A2000		RNAV 1	
DF	GBG	no	N465313.16 E0154801.15			right	A5000+		RNAV 1	

Designator	Route	After Take-Off		Remarks
		Climb to ..initially	Expect FREQ	
GOLVA 4 U Golva four uniform departure	Climb on track 344° to 2000 FT MSL - GOLVA	By ATC	GRAZ RADAR 119.300 MHZ	Climb gradient at least 5,1% (310 FT/NM).

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RNAV SID Coding Table of GOLVA 4 U

Path Terminator	Waypoint			Course/ Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A2000		RNAV 1	
DF	GOLVA	no	N464231.57 E0153908.54			right	A6000+		RNAV 1	

Designator	Route	After Take-Off		Remarks
		Climb to ..initially	Expect FREQ	
GOTAR 5 U Gotar five uniform departure	Climb on track 344° to 2000 FT MSL - GOTAR	By ATC	GRAZ RADAR 119.300 MHZ	Climb gradient at least 5,1% (310 FT/NM) until passing 2000 FT MSL, thereafter 4,4% (270 FT/NM).

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RNAV SID Coding Table of GOTAR 5 U

Path Terminator	Waypoint			Course/ Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A2000		RNAV 1	
DF	GOTAR	no	N465952.37 E0161329.15			right	A7000+		RNAV 1	

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Aircraft unable to comply with the prescribed climb gradients shall use departure route GRZ.

To expedite traffic, ATC may request aircraft to start the initial TURN with reference to terrain as soon as practical. In this case terrain clearance has to be assured by the pilot up to 3000 FT east of aerodrome / or 3500 FT west of aerodrome.

Designator	Route	After Take-Off		Remarks
		Climb to ..initially	Expect FREQ	
GRZ 4 Y Graz four yankee departure	Climb on track 344 - when crossing 2000 FT MSL turn RIGHT immediately inbound to VOR/DME GRZ and enter the holding 4000 FT MSL or above; climb in the holding pattern and leave VOR/DME GRZ at an altitude sufficient to reach the indicated MFA on ATS-route concerned at the TMA border	By ATC	GRAZ RADAR 119.300 MHZ	Climb gradient at least 4,3% (265 FT/NM) until passing 2000 FT MSL. Turn limited to MAX IAS 220 KT. Only available for NON-RNAV equipped aircraft.
Contact GRAZ RADAR when advised by Tower				



Designator	Route	After Take-Off		Remarks						
		Climb to ..initially	Expect FREQ							
MILGO 5 U Milgo five uniform departure	Climb on track 344° to 3500 FT MSL - MILGO	By ATC	GRAZ RADAR 119.300 MHZ	Climb gradient at least 6,2% (380 FT/NM) until passing 10000 FT MSL.						
Contact GRAZ RADAR when advised by Tower										
RNAV SID Coding Table of MILGO 5 U										
Path Terminator	Waypoint			Course/ Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A3500		RNAV 1	
DF	MILGO	no	N471806.16 E0150529.94			left	A10000+		RNAV 1	

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Aircraft unable to comply with the prescribed climb gradients shall use departure route GRZ.

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Designator	Route			After Take-Off		Remarks				
				Climb to ..initially	Expect FREQ					
MUREG 4 U Mureg four uniform departure	Climb on track 344° to 2000 FT MSL - MUREG			By ATC	GRAZ RADAR 119.300 MHZ	Climb gradient at least 5,1% (310 FT/NM).				
Contact GRAZ RADAR when advised by Tower										
RNAV SID Coding Table of MUREG 4 U										
Path Terminator	Waypoint			Course/ Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A2000		RNAV 1	
DF	MUREG	no	N464224.25 E0154828.98			right	A5000+		RNAV 1	

Designator	Route		After Take-Off		Remarks					
			Climb to ..initially	Expect FREQ						
RADLY 6 U Radly six uniform departure	Climb on track 344° to 2000 FT MSL - VOR/DME GRZ - RADLY		By ATC	GRAZ RADAR 119.300 MHZ	Climb gradient at least 5,1% (310 FT/NM) until passing 4500 FT MSL, thereafter 3,3% (205 FT/NM).					
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RNAV SID Coding Table of RADLY 6 U										
Path Terminator	Waypoint			Course/ Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A2000		RNAV 1	
DF	GRZ	yes	N465719.12 E0152658.00			right	A4500+		RNAV 1	
DF	RADLY	no	N463848.69 E0151233.03				A8500+		RNAV 1	

Designator	Route		After Take-Off		Remarks					
			Climb to ..initially	Expect FREQ						
RADLY 4 V Radly four victor departure	Climb on track 344° to 3500 FT MSL - WG608 - RADLY		By ATC	GRAZ RADAR 119.300 MHZ	ATC DISCRETION ONLY Climb gradient at least 5,7% (350 FT/NM) until passing 3500 FT MSL, thereafter 3,3% (205 FT/NM).					
Contact GRAZ RADAR when advised by Tower										
RNAV SID Coding Table of RADLY 4 V										
Path Terminator	Waypoint			Course/ Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A3500		RNAV 1	
DF	WG608	no	N465246.33 E0151532.21			left			RNAV 1	
TF	RADLY	no	N463848.69 E0151233.03	183° (188.4°)	14.1		A8500+		RNAV 1	

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Designator	Route	After Take-Off		Remarks
		Climb to ..initially	Expect FREQ	
ROPAG 4 U Ropag four uniform departure	Climb on track 344° to 2700 FT MSL - WG602 - ROPAG	By ATC	GRAZ RADAR 119.300 MHZ	Climb gradient at least 6,2% (380 FT/NM).

Contact GRAZ RADAR when advised by Tower

RNAV SID Coding Table of ROPAG 4 U

Path Terminator	Waypoint			Course/Track ° MAG (° True)	DIST NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA				344° (349.3°)			A2700		RNAV 1	
DF	WG602	yes	N470705.25 E0153354.07			right	A5500+	K205-	RNAV 1	
DF	ROPAG	no	N471249.04 E0154757.72				A8000+		RNAV 1	

RNAV Holding

Holding Point	Inbound Track ° True	Inbound Track ° MAG	Turn Direction	MAX IAS	Minimum Holding Altitude FT MSL / FL	Time	DIST NM	Remarks
GBG	200.3°	195°	left		A5000	1 MIN		