



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            |  |
| <b>ABIRI 4 G</b><br>Abiri four golf departure | Climb on track 164° to 2700 FT MSL - WG607 - ABIRI | By ATC               | GRAZ RADAR 119.300 MHZ | Climb gradient at least 7,7% (470 FT/NM) until passing 2700 FT MSL, thereafter 6,0% (365 FT/NM). |

Contact GRAZ RADAR when advised by Tower

**RNAV SID Coding Table of ABIRI 4 G**

| Path Terminator | Waypoint   |         |                           | Course/Track ° MAG (° True) | DIST NM | Turn Direction | Constraints |       | Navigation Specification | Remarks |
|-----------------|------------|---------|---------------------------|-----------------------------|---------|----------------|-------------|-------|--------------------------|---------|
|                 | Identifier | Flyover | Coordinates               |                             |         |                | Level       | Speed |                          |         |
| CA              |            |         |                           | 164° (169.3°)               |         |                | A2700       |       | RNAV 1                   |         |
| DF              | WG607      | no      | N465214.43<br>E0152232.92 |                             |         | right          |             | K205- | RNAV 1                   |         |
| TF              | ABIRI      | no      | N464545.01<br>E0145803.26 | 244° (249.0°)               | 18      |                | A9000+      |       | RNAV 1                   |         |

| Designator   | Route   | After Take-Off       |                        | Remarks                                   |
|--|---|----------------------|------------------------|---|
|  |   | Climb to ..initially | Expect FREQ            |   |
| <b>GBG 7 X</b><br>Gleichenberg seven x-ray departure | <b>RNAV:</b><br>Climb on track 164° to 2200 FT MSL - GBG<br><br><b>Conventional:</b><br>Climb on track 164° to 2200 FT MSL, turn LEFT to NDB Gleichenberg, enter the holding 5000 FT MSL or above | By ATC               | GRAZ RADAR 119.300 MHZ | Climb gradient at least 3,3% (205 FT/NM). |

Contact GRAZ RADAR when advised by Tower

**RNAV SID Coding Table of GBG 7 X**

| Path Terminator | Waypoint   |         |                           | Course/Track ° MAG (° True) | DIST NM | Turn Direction | Constraints |       | Navigation Specification | Remarks |
|-----------------|------------|---------|---------------------------|-----------------------------|---------|----------------|-------------|-------|--------------------------|---------|
|                 | Identifier | Flyover | Coordinates               |                             |         |                | Level       | Speed |                          |         |
| CA              |            |         |                           | 164° (169.3°)               |         |                | A2200       |       | RNAV 1                   |         |
| DF              | GBG        | no      | N465313.16<br>E0154801.15 |                             |         | left           | A5000+      |       | RNAV 1                   |         |

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

**GRAZ  
RWY 16C**

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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            |  |
| <b>GOLVA 5 G</b><br>Golva five golf departure | Climb on track 164° to 2200 FT MSL - WG604 - GOLVA | By ATC               | GRAZ RADAR 119.300 MHZ | Climb gradient at least 5,1% (310 FT/NM) until passing 4200 FT MSL, thereafter 3,3% (205 FT/NM). |

Contact GRAZ RADAR when advised by Tower

**RNAV SID Coding Table of GOLVA 5 G**

| Path Terminator | Waypoint   |         |                           | Course/Track ° MAG (° True) | DIST NM | Turn Direction | Constraints |       | Navigation Specification | Remarks |
|-----------------|------------|---------|---------------------------|-----------------------------|---------|----------------|-------------|-------|--------------------------|---------|
|                 | Identifier | Flyover | Coordinates               |                             |         |                | Level       | Speed |                          |         |
| CA              |            |         |                           | 164° (169.3°)               |         |                | A2200       |       | RNAV 1                   |         |
| DF              | WG604      | yes     | N465137.71<br>E0153512.79 |                             |         | left           |             | K220- | RNAV 1                   |         |
| DF              | GOLVA      | no      | N464231.57<br>E0153908.54 |                             |         | right          | A6000+      |       | RNAV 1                   |         |

| Designator                                    | Route                                      | After Take-Off       |                        | Remarks   |
|---|--|----------------------|------------------------|---|
|   |  | Climb to ..initially | Expect FREQ            |   |
| <b>GOTAR 5 G</b><br>Gotar five golf departure | Climb on track 164° to 2200 FT MSL - GOTAR | By ATC               | GRAZ RADAR 119.300 MHZ | Climb gradient at least 4,4% (270 FT/NM) until passing 2200 FT MSL, thereafter 3,3 % (205 FT/NM). |

Contact GRAZ RADAR when advised by Tower

**RNAV SID Coding Table of GOTAR 5 G**

| Path Terminator | Waypoint   |         |                           | Course/Track ° MAG (° True) | DIST NM | Turn Direction | Constraints |       | Navigation Specification | Remarks |
|-----------------|------------|---------|---------------------------|-----------------------------|---------|----------------|-------------|-------|--------------------------|---------|
|                 | Identifier | Flyover | Coordinates               |                             |         |                | Level       | Speed |                          |         |
| CA              |            |         |                           | 164° (169.3°)               |         |                | A2200       |       | RNAV 1                   |         |
| DF              | GOTAR      | no      | N465952.37<br>E0161329.15 |                             |         | left           | A7000+      |       | RNAV 1                   |         |



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SID's**

**GRAZ  
RWY 16C**

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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               |  |
| <b>GRZ 4 X</b><br>Graz four x-ray departure | Climb on track 164 until crossing VOR/DME GRZ and 2200 FT MSL, turn LEFT inbound to VOR/DME GRZ and enter the holding 4000 FT MSL or above | By ATC               | GRAZ RADAR<br>119.300 MHZ | 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               |   |
| <b>MILGO 6 G</b><br>Milgo six golf departure | Climb on track 164° to 3500 FT MSL - WG609 - MILGO | By ATC               | GRAZ RADAR<br>119.300 MHZ | Climb gradient at least 3,7% (225 FT/NM). |
| Contact GRAZ RADAR when advised by Tower     |  |                      |                           |   |

**RNAV SID Coding Table of MILGO 6 G**

| Path Terminator | Waypoint   |         |                           | Course/<br>Track<br>° MAG<br>(° True) | DIST<br>NM | Turn<br>Direction | Constraints |       | Navigation<br>Specification | Remarks |
|-----------------|------------|---------|---------------------------|---------------------------------------|------------|-------------------|-------------|-------|-----------------------------|---------|
|                 | Identifier | Flyover | Coordinates               |                                       |            |                   | Level       | Speed |                             |         |
| CA              |            |         |                           | 164°<br>(169.3°)                      |            |                   | A3500       |       | RNAV 1                      |         |
| DF              | WG609      | no      | N465836.81<br>E0151924.32 |                                       |            | right             |             | K205- | RNAV 1                      |         |
| TF              | MILGO      | no      | N471806.16<br>E0150529.94 | 329°<br>(334.1°)                      | 21.7       |                   | A10000+     |       | RNAV 1                      |         |

| Designator                                      | Route  | After Take-Off       |                           | Remarks                                   |
|---|--|----------------------|---------------------------|---|
|   |  | Climb to ..initially | Expect FREQ               |   |
| <b>MILGO 3 H</b><br>Milgo three hotel departure | Climb on track 164° to 2200 FT MSL - WG603 - MILGO | By ATC               | GRAZ RADAR<br>119.300 MHZ | Climb gradient at least 4,0% (245 FT/NM). |
| Contact GRAZ RADAR when advised by Tower        |  |                      |                           |   |

**RNAV SID Coding Table of MILGO 3 H**

| Path Terminator | Waypoint   |         |                           | Course/<br>Track<br>° MAG<br>(° True) | DIST<br>NM | Turn<br>Direction | Constraints |       | Navigation<br>Specification | Remarks |
|-----------------|------------|---------|---------------------------|---------------------------------------|------------|-------------------|-------------|-------|-----------------------------|---------|
|                 | Identifier | Flyover | Coordinates               |                                       |            |                   | Level       | Speed |                             |         |
| CA              |            |         |                           | 164°<br>(169.3°)                      |            |                   | A2200       |       | RNAV 1                      |         |
| DF              | WG603      | yes     | N470046.32<br>E0153311.43 |                                       |            | left              | A5000+      | K205- | RNAV 1                      |         |
| DF              | MILGO      | no      | N471806.16<br>E0150529.94 |                                       |            | left              | A10000+     |       | RNAV 1                      |         |

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

**GRAZ  
RWY 16C**

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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            |   |
| <b>MUREG 5 G</b><br>Mureg five golf departure | Climb on track 164° to 2200 FT MSL - WG604 - MUREG | By ATC               | GRAZ RADAR 119.300 MHZ | Climb gradient at least 3,3% (205 FT/NM). |

Contact GRAZ RADAR when advised by Tower

**RNAV SID Coding Table of MUREG 5 G**

| Path Terminator | Waypoint   |         |                           | Course/<br>Track<br>° MAG<br>(° True) | DIST<br>NM | Turn<br>Direction | Constraints |       | Navigation<br>Specification | Remarks |
|-----------------|------------|---------|---------------------------|---------------------------------------|------------|-------------------|-------------|-------|-----------------------------|---------|
|                 | Identifier | Flyover | Coordinates               |                                       |            |                   | Level       | Speed |                             |         |
| CA              |            |         |                           | 164°<br>(169.3°)                      |            |                   | A2200       |       | RNAV 1                      |         |
| DF              | WG604      | yes     | N465137.71<br>E0153512.79 |                                       |            | left              |             | K220- | RNAV 1                      |         |
| DF              | MUREG      | no      | N464224.25<br>E0154828.98 |                                       |            | right             | A5000+      |       | RNAV 1                      |         |

| Designator                                    | Route  | After Take-Off       |                        | Remarks                                   |
|---|--|----------------------|------------------------|---|
|   |  | Climb to ..initially | Expect FREQ            |   |
| <b>RADLY 5 G</b><br>Radly five golf departure | Climb on track 164° to 2200 FT MSL - WG607 - RADLY | By ATC               | GRAZ RADAR 119.300 MHZ | Climb gradient at least 5,2% (320 FT/NM). |

Contact GRAZ RADAR when advised by Tower

**RNAV SID Coding Table of RADLY 5 G**

| Path Terminator | Waypoint   |         |                           | Course/<br>Track<br>° MAG<br>(° True) | DIST<br>NM | Turn<br>Direction | Constraints |       | Navigation<br>Specification | Remarks |
|-----------------|------------|---------|---------------------------|---------------------------------------|------------|-------------------|-------------|-------|-----------------------------|---------|
|                 | Identifier | Flyover | Coordinates               |                                       |            |                   | Level       | Speed |                             |         |
| CA              |            |         |                           | 164°<br>(169.3°)                      |            |                   | A2200       |       | RNAV 1                      |         |
| DF              | WG607      | no      | N465214.43<br>E0152232.92 |                                       |            | right             |             | K205- | RNAV 1                      |         |
| TF              | RADLY      | no      | N463848.69<br>E0151233.03 | 202°<br>(207.2)                       | 15.1       | left              | A8500+      |       | 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<br>..initially | Expect FREQ               |   |
| <b>ROPAG 4 G</b><br>Ropag four golf departure | Climb on track 164° to 2200 FT MSL - ROPAG | By ATC                  | GRAZ RADAR<br>119.300 MHZ | Climb gradient at least 4,0% (245 FT/NM). |

Contact GRAZ RADAR when advised by Tower

**RNAV SID Coding Table of ROPAG 4 G**

| Path Terminator | Waypoint   |         |                           | Course/<br>Track<br>° MAG<br>(° True) | DIST<br>NM | Turn<br>Direction | Constraints |       | Navigation<br>Specification | Remarks |
|-----------------|------------|---------|---------------------------|---------------------------------------|------------|-------------------|-------------|-------|-----------------------------|---------|
|                 | Identifier | Flyover | Coordinates               |                                       |            |                   | Level       | Speed |                             |         |
| CA              |            |         |                           | 164°<br>(169.3°)                      |            |                   | A2200       |       | RNAV 1                      |         |
| DF              | ROPAG      | no      | N471249.04<br>E0154757.72 |                                       |            | left              | A8000+      |       | RNAV 1                      |         |

**RNAV Holding**

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