

## LSZR - ST. GALLEN-ALTENRHEIN

## LSZR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZR - ST. GALLEN-ALTENRHEIN

## LSZR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

|   |                                                            |                                                                                                                                                                                                                                          |
|---|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ARP coordinates and site at Aerodrome                      | 47 29 06 N 009 33 43 E<br>RWY axis, 788 m from DTHR RWY 10                                                                                                                                                                               |
| 2 | Direction and distance from the CITY                       | 14 km ENE St. Gallen                                                                                                                                                                                                                     |
| 3 | Elevation/Reference temperature                            | 1306 ft AMSL - 23.5° C                                                                                                                                                                                                                   |
| 4 | MAG VAR/Annual change                                      | 2° E (2015.5) / 0°10' eastwards                                                                                                                                                                                                          |
| 5 | AD Administration, address, telephone, telefax, telex, AFS | Post: Airport Altenrhein AG<br>Flughafenstrasse 11<br>CH-9423 Altenrhein<br>Phone: +41 (0) 71 858 51 65<br>Fax: +41 (0) 71 858 51 44<br>AFS: LSZRYDYX<br>SITA: ACHKKPE<br>Email: groundservices@peoples.ch<br>URL: http://www.peoples.ch |
| 6 | Types of traffic permitted (IFR/VFR)                       | IFR/VFR                                                                                                                                                                                                                                  |
| 7 | Remarks                                                    | Geodetic Undulation Reference for ARP: 151.2 ft                                                                                                                                                                                          |

## LSZR AD 2.3 OPERATIONAL HOURS

|    |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | AD Administration          | <b>VFR FLT:</b><br>MON-FRI: 0600 - 1100 (0500 - 1000) 1230 - 1900 (1130 - 1800)<br>SAT: 0700 - 1100 (0600 - 1000) 1230 - 1900 (1130 - 1800)<br>SUN+HOL: 0900 - 1100 (0800 - 1000) 1230 - 1900 (1130 - 1800)<br><b>IFR FLT:</b><br>MON-FRI (incl. HOL): 0530 - 1100 (0430 - 1000) 1230 - 2000 (1130 - 1900)<br>SAT: 0630 - 1100 (0530 - 1000) 1230 - 1900 (1130 - 1800)<br>SUN: 0900 - 1100 (0800 - 1000) 1230 - 1900 (1130 - 1800) |
| 2  | Customs and immigration    | AD OPR HR                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3  | Health and sanitation      | Ambulance O/R<br>Hospital: St. Gallen                                                                                                                                                                                                                                                                                                                                                                                              |
| 4  | AIS Briefing Office        | AD OPR HR                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5  | ATS Reporting Office (ARO) | CTC ARO Zurich;<br>Phone: +41(0) 43 931 61 61                                                                                                                                                                                                                                                                                                                                                                                      |
| 6  | MET Briefing Office        | AD OPR HR                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 7  | ATS                        | HX                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8  | Fuelling                   | AD OPR HR                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9  | Handling                   | AD OPR HR                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10 | Security                   | Security screening / critical part O/R                                                                                                                                                                                                                                                                                                                                                                                             |
| 11 | De-icing                   | AD OPR HR                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 12 | Remarks                    | Outside AD administration hours - OPS and services O/R<br>Special permission is required for flights outside official opening hours and is possible during the following times:<br>MON-FRI (incl. HOL): 0500 - 0530 (0400 - 0430)<br>1100 - 1230 (1000 - 1130)<br>2000 - 2100 (1900 - 2000)                                                                                                                                        |

|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <p>SAT: 0530 - 0630 (0430 - 0530)<br/>1100 - 1230 (1000 - 1130)<br/>1900 - 2100 (1800 - 2000)</p> <p>SUN: 0630 - 0900 (0530 - 0800)<br/>1100 - 1230 (1000 - 1130)<br/>1900 - 2000 (1800 - 1900)</p> <p>Request needs to be addressed to <a href="mailto:groundservices@peoples.ch">groundservices@peoples.ch</a> / +41 (0) 71 858 51 65</p> <p>Exceptions: Special permission possible 24/7 O/R for HOSP FLT, SAR FLT, FLT of the President of the Swiss Confederation and members of the Swiss Government.</p> <p>AD CLSD: New Years Day (JAN 01), Easter SUN, Whit SUN, Christmas Day (DEC 25).</p> <p>Grass RWY: Not available between NOV 01 - FEB 28</p> |
|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## LSZR AD 2.4 HANDLING SERVICES AND FACILITIES

|   |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Cargo handling facilities                    | NIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2 | Fuel/oil types                               | JET A1, AVGAS 100LL, Fuel Additive, Turbo Oil 2380                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3 | Fuelling facilities/capacity                 | Airport Altenrhein AG - Fuel stations: Jet A1 50000 litres, AVGAS 50000 litres, Jet A1 Fuel Truck 20100 litres, 900 litres/min.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4 | De-icing facilities                          | <p>OCT 01 - APR 30: De-icing guaranteed<br/>MAY 01 - SEP 30: De-icing O/R<br/>Operator: Airport Altenrhein AG<br/>De-icing fluids available:<br/>Type I Kilfrost DF Plus, Type II Kilfrost ABC K-Plus.<br/>Number of de-icing vehicles: 1<br/>On stand de-icing: Apron stands 2 and 3.<br/>Clean Aircraft Concept as defined in ICAO Doc 9640 is applied; aircraft are de-iced according to the requirements of SAE AS6285.<br/>Airport Authority can intervene in case of non-adherence.</p>                                                                   |
| 5 | Hangar space available for visiting aircraft | <p>O/R<br/>Airport Altenrhein AG<br/>Phone: +41 (0) 71 858 51 65<br/>Fax: +41 (0) 71 858 51 44<br/>Email: <a href="mailto:groundservices@peoples.ch">groundservices@peoples.ch</a></p>                                                                                                                                                                                                                                                                                                                                                                          |
| 6 | Repair facilities for visiting aircraft      | <p>For Airplane:<br/>AAL Ltd.<br/>Flughafenstrasse 11<br/>9423 Altenrhein<br/>Phone: +41 (0) 71 858 51 85<br/>Fax: +41 (0) 71 858 51 95<br/>Email: <a href="mailto:info@aal.aero">info@aal.aero</a><br/>URL: <a href="http://www.aal.aero">http://www.aal.aero</a></p> <p>For Helicopter:<br/>Heli-Maintenance AG<br/>Rütiweg 1340<br/>9423 Altenrhein<br/>Phone: +41 (0) 71 422 50 50<br/>Email: <a href="mailto:info@helimaintenance.ch">info@helimaintenance.ch</a><br/>URL: <a href="http://www.heli-maintenance.ch">http://www.heli-maintenance.ch</a></p> |
| 7 | Remarks                                      | <p>Ground handling agent:<br/>Airport Altenrhein AG<br/>Phone: +41 (0) 71 858 51 65<br/>Fax: +41 (0) 71 858 51 44<br/>AFS: LSZRYDYX<br/>Email: <a href="mailto:groundservices@peoples.ch">groundservices@peoples.ch</a><br/>FREQ: 131.505 MHz (St.Gallen Handling)</p>                                                                                                                                                                                                                                                                                          |

**LSZR AD 2.5 PASSENGER FACILITIES**

|   |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Hotels               | Near the AD, Rorschach, St. Gallen                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2 | Restaurants          | At AD, Altenrhein and vicinity                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3 | Transportation       | Public buses, taxis and car rental agencies at AD                                                                                                                                                                                                                                                                                                                                                                                             |
| 4 | Medical facilities   | Ambulance O/R<br>Hospital: St.Gallen                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5 | Bank and Post Office | Cash machine: Airport Terminal<br>Bank: Staad, Rorschach<br>Post Office: Altenrhein, Staad, Rorschach                                                                                                                                                                                                                                                                                                                                         |
| 6 | Tourist Office       | Rorschach:<br>Phone: +41 (0) 71 841 61 41<br>Email: <a href="mailto:touristinfo@rorschach.ch">touristinfo@rorschach.ch</a><br>URL: <a href="http://www.st.gallen-bodensee.ch">http://www.st.gallen-bodensee.ch</a><br>St. Gallen:<br>Phone: +41 (0) 71 227 37 37<br>Email: <a href="mailto:info@st.gallen-bodensee.ch">info@st.gallen-bodensee.ch</a><br>URL: <a href="http://www.st.gallen-bodensee.ch">http://www.st.gallen-bodensee.ch</a> |
| 7 | Remarks              | IATA travel agency at AD:<br>High Life Reisen GmbH<br>Phone: +41 (0) 71 886 60 88<br>Email: <a href="mailto:info@highlife.at">info@highlife.at</a><br>URL: <a href="http://www.highlife.travel">http://www.highlife.travel</a>                                                                                                                                                                                                                |

**LSZR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

|   |                                             |                                                                                                           |
|---|---------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1 | AD category for fire fighting               | Category 2<br>Category 3 - 6: O/R 3 HR before ETA/ETD<br>for scheduled traffic according to aircraft type |
| 2 | Rescue equipment                            | 3 RFF vehicles                                                                                            |
| 3 | Capability for removal of disabled aircraft | Crane, lifting bags and hydraulic jacks available                                                         |
| 4 | Remarks                                     | NIL                                                                                                       |

**LSZR AD 2.7 SEASONAL AVAILABILITY - CLEARING**

|   |                               |                                                                                                            |
|---|-------------------------------|------------------------------------------------------------------------------------------------------------|
| 1 | Type(s) of clearing equipment | 6 snow removal vehicles, 1 snow milling machine                                                            |
| 2 | Clearance priorities          | RWY, TWY A/S/N, Apron                                                                                      |
| 3 | Remarks                       | RWY 10/28 de-iced / anti-iced with KFOR (potassium formate fluids)<br>or with NAFO (sodium formate solids) |

**LSZR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA**

|   |                                     |                                                                                                                                                                                                                                                                                                                                                                       |
|---|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Apron surface and strength          | Concrete, ASPH: - PCN 30/F/C/Y/T<br>GRASS: 0.25 MPa                                                                                                                                                                                                                                                                                                                   |
| 2 | Taxiway width, surface and strength | Widths:<br>TWY A: 15.0 m<br>TWY M: 7.5 m<br>TWY N: 15.0 m on section parallel to APRON EAST,<br>10.0 m east of APRON EAST to Hangar C6, 7.5 m east of Hangar C6.<br>TWY S: 15.0 m<br>MAX wingspan:<br>TWY M: 14.0 m<br>TWY N: 24.0 m on section parallel to APRON EAST, 18.0 m east of<br>APRON EAST to Hangar C6, 15.0 m east of Hangar C6.<br>ASPH - PCN 30/F/C/Y/T |
| 3 | ACL location and elevation          | not Designated                                                                                                                                                                                                                                                                                                                                                        |
| 4 | Location of VOR checkpoints         | NIL                                                                                                                                                                                                                                                                                                                                                                   |
| 5 | Remarks                             | NIL                                                                                                                                                                                                                                                                                                                                                                   |

**LSZR AD 2.9 SURFACE MOVEMENT GUIDANCE, CONTROL SYSTEM AND MARKINGS**

|   |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                               |
|---|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands | Taxi guide lines for parking stands on apron.<br>Apron Safety Lines<br>ACFT Stand identification markings<br>Centre lines on TWY                                                                                                                                                                                                                                              |
| 2 | RWY/TWY markings and LGT                                                                                      | RWY designation, DTHR, aiming point, touchdown zone and centre line, TWY centre lines, RWY holding and intermediate holding position markings, enhanced TWY centre line markings and mandatory instruction signs at all intersections with RWY.<br>Information signs on the movement area<br>LGT: THR, simple touchdown zone, RGL, RWY edges, RWY end, TWY edges A+S (partly) |
| 3 | Stop bars                                                                                                     | Holding point RWY 10/28, markings, not lighted                                                                                                                                                                                                                                                                                                                                |
| 4 | Remarks                                                                                                       | NIL                                                                                                                                                                                                                                                                                                                                                                           |

## LSZR AD 2.10 AERODROME OBSTACLES

| In approach/TKOF areas                                                                                               |                                            |      |                           | In circling area and at aerodrome          |      |                           |          |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------|---------------------------|--------------------------------------------|------|---------------------------|----------|
| 1                                                                                                                    |                                            |      |                           | 2                                          |      |                           | 3        |
| RWY/Area affected                                                                                                    | Obstacle type<br>Elevation<br>Markings/LGT |      | Co-ordinates              | Obstacle type<br>Elevation<br>Markings/LGT |      | Co-ordinates              | RMK      |
| a                                                                                                                    | b                                          |      | c                         | a                                          |      | b                         | c        |
|                                                                                                                      |                                            | ft   |                           |                                            | ft   |                           |          |
| AOC 10 (1)                                                                                                           | Pole                                       | 1307 | 47 29 05 N<br>009 34 14 E | Pole<br>LGTD                               | 1323 | 47 29 11 N<br>009 32 54 E | B0719/06 |
| AOC 10 (2)                                                                                                           | Building                                   | 1314 | 47 29 00 N<br>009 34 14 E | Antenna<br>LGTD                            | 1342 | 47 29 06 N<br>009 33 16 E | B0167/04 |
| AOC 10 (3)                                                                                                           | Antenna                                    | 1322 | 47 29 00 N<br>009 34 14 E | Pole<br>marked/LGTD                        | 1339 | 47 29 01 N<br>009 34 00 E | B1310/13 |
| AOC 10 (4)                                                                                                           | Tree/Trees                                 | 1328 | 47 29 05 N<br>009 34 25 E | Control tower<br>LGTD                      | 1360 | 47 29 16 N<br>009 33 10 E | B0718/06 |
| AOC 10 (5)                                                                                                           | Tree/Trees                                 | 1331 | 47 28 56 N<br>009 34 30 E |                                            |      |                           |          |
| AOC 10 (6)                                                                                                           | Tree/Trees                                 | 1337 | 47 28 57 N<br>009 34 30 E |                                            |      |                           |          |
| AOC 10 (7)                                                                                                           | Tree/Trees                                 | 1402 | 47 29 05 N<br>009 34 37 E | Pole<br>LGTD                               | 1315 | 47 29 06 N<br>009 33 20 E | B0097/09 |
| AOC 10 (8)                                                                                                           | Tree/Trees                                 | 1413 | 47 29 04 N<br>009 34 47 E |                                            |      |                           |          |
| AOC 10 (9)                                                                                                           | Tree/Trees                                 | 1414 | 47 29 02 N<br>009 34 47 E |                                            |      |                           |          |
| AOC 10 (10)                                                                                                          | Tree/Trees                                 | 1425 | 47 28 53 N<br>009 34 55 E |                                            |      |                           |          |
|                                                                                                                      |                                            |      |                           |                                            |      |                           |          |
| AOC 28 (1)                                                                                                           | Pole                                       | 1308 | 47 29 12 N<br>009 32 59 E |                                            |      |                           |          |
| AOC 28 (2)                                                                                                           | Tree/Trees                                 | 1326 | 47 29 07 N<br>009 32 58 E |                                            |      |                           |          |
| AOC 28 (3)                                                                                                           | Tree/Trees                                 | 1327 | 47 29 08 N<br>009 32 57 E |                                            |      |                           |          |
| AOC 28 (4)                                                                                                           | Pole                                       | 1336 | 47 29 07 N<br>009 32 55 E |                                            |      |                           |          |
| AOC 28 (5)                                                                                                           | Pole                                       | 1339 | 47 29 08 N<br>009 32 55 E |                                            |      |                           |          |
| AOC 28 (6)                                                                                                           | Antenna                                    | 1347 | 47 29 08 N<br>009 32 49 E |                                            |      |                           |          |
| AOC 28 (7)                                                                                                           | Antenna                                    | 1349 | 47 29 08 N<br>009 32 48 E |                                            |      |                           |          |
| AOC 28 (8)                                                                                                           | Building                                   | 1350 | 47 29 16 N<br>009 32 43 E |                                            |      |                           |          |
| AOC 28 (9)                                                                                                           | Tree/Trees                                 | 1367 | 47 29 08 N<br>009 32 40 E |                                            |      |                           |          |
| Refer also to LSZR AOC 10/28, LSZR AD 2.24.4 - 1<br>Number in brackets is equivalent to identification number on AOC |                                            |      |                           |                                            |      |                           |          |

**LSZR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

|    |                                                                     |                                                            |
|----|---------------------------------------------------------------------|------------------------------------------------------------|
| 1  | Associated MET Office                                               | MeteoSwiss                                                 |
| 2  | Hours of service                                                    | HX                                                         |
| 3  | Office responsible for TAF preparation<br>Periods of validity       | MeteoSwiss, Zurich<br>9 hours                              |
| 4  | Type of landing forecast                                            | Trend; issuance: HH+20, HH+50                              |
| 5  | Briefing/consultation provided                                      | Self Briefing Service (www.skybriefing.com), WLAN Internet |
| 6  | Flight documentation<br>Language(s) used                            | Digital and hard copy<br>En, Ge, Fr                        |
| 7  | Charts and other information available for briefing or consultation | Self Briefing Service (www.skybriefing.com), WLAN Internet |
| 8  | Supplementary equipment available for providing information         | WLAN Internet                                              |
| 9  | ATS units provided with information                                 | St. Gallen TWR                                             |
| 10 | Additional information (limitation of service, etc.)                | WLAN Internet                                              |

**LSZR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

| Designations<br>RWY NR | TRUE &<br>MAG<br>BRG | Dimensions<br>of RWY (m) | Strength (PCN)<br>and surface of<br>RWY and SWY | THR<br>COORD                  | THR elevation<br>and highest<br>elevation of TDZ<br>of precision APP<br>RWY | Slope of<br>RWY-SWY             |
|------------------------|----------------------|--------------------------|-------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------|---------------------------------|
| 1                      | 2                    | 3                        | 4                                               | 5                             | 6                                                                           | 7                               |
| 10                     | 099° GEO<br>097° MAG | 1455 x 30                | PCN 30/F/C/Y/T<br>ASPH                          | 47 29 09.57N<br>009 33 05.74E | 1306 ft                                                                     | Refer to: LSZR<br>AOC RWY 10/28 |
| 28                     | 279° GEO<br>277° MAG |                          |                                                 | 47 29 03.04N<br>009 34 08.31E | 1306 ft                                                                     |                                 |
| 10 GRASS               | 099° GEO<br>097° MAG | 810 x 20                 | 0.25 MPa<br>GRASS                               | NIL                           | NIL                                                                         | NIL                             |
| 28 GRASS               | 279° GEO<br>277° MAG |                          |                                                 |                               |                                                                             |                                 |

| Designations<br>RWY<br>NR | SWY<br>dimensions<br>(m) | CWY<br>dimensions<br>(m) | Strip<br>dimensions<br>(m) | OFZ | Remarks                                                                                                                                  |
|---------------------------|--------------------------|--------------------------|----------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------|
| 1                         | 8                        | 9                        | 10                         | 11  | 12                                                                                                                                       |
| 10                        | NIL                      | 60 x 150                 | 1575 x 80                  | NIL | RWY Strip and RESA dimensions according to non-instrument RWY criteria.<br>RESA: 30 m<br>FCT: 0.78/0.75<br>grooved between DTHR (1325 m) |
| 28                        |                          | 60 x 150                 |                            |     | Non-instrument RWY<br>RESA: 30 m<br>FCT: 0.79/0.75<br>grooved between DTHR (1325 m)                                                      |
| 10 GRASS                  | NIL                      | NIL                      | 870 x 60                   | N/A | NIL                                                                                                                                      |
| 28 GRASS                  |                          |                          |                            |     |                                                                                                                                          |

**LSZR AD 2.13 DECLARED DISTANCES**

| RWY Designator | TORA (m) | TODA (m) | ASDA (m) | LDA (m) | Remarks                                        |
|----------------|----------|----------|----------|---------|------------------------------------------------|
| 1              | 2        | 3        | 4        | 5       | 6                                              |
| 10             | 1455     | 1515     | 1455     | 1380    | Public roads behind RWY (outside airport area) |
| 28             | 1455     | 1515     | 1455     | 1400    | Public roads behind RWY (outside airport area) |
| 10 GRASS       | 810      | 810      | 810      | 810     | NIL                                            |
| 28 GRASS       | 810      | 810      | 810      | 810     | NIL                                            |

**LSZR AD 2.14 APPROACH AND RUNWAY LIGHTING**

| RWY Designator | ALS Type, length, intensity      | THR LGT Colour, intensity WBAR | VASIS (MEHT)          | RTZL LEN, INTST                      | RCLL Length, spacing, colour, intensity | REDL Length, spacing, colour, intensity                      | RENL Colour | SWY LGT Length, colour | RMK                              |
|----------------|----------------------------------|--------------------------------|-----------------------|--------------------------------------|-----------------------------------------|--------------------------------------------------------------|-------------|------------------------|----------------------------------|
| 1              | 2                                | 3                              | 4                     | 5                                    | 6                                       | 7                                                            | 8           | 9                      | 10                               |
| 10             | RLLS Seq. FLG LGT, 300 m, W, LIH | RTHL G, LIH WBAR, RTIL FLG W   | PAPI 4.0° L+R (7.0 m) | Simple TZL* 473 m FM THR 10, W, LIH  | NIL                                     | 75 m, 50 m, R, LIH; 930 m, 50 m, W, LIH; 450 m, 50 m, Y, LIH | R           | NIL                    | First RLLS LGT is 530 m FM THR10 |
| 28             | NIL                              | RTHL G, LIH WBAR               | PAPI 4.0° L (8.5 m)   | Simple TZL*, 473 m FM THR 28, W, LIH | NIL                                     | 55 m, 50 m, R, LIH; 950 m, 50 m, W, LIH; 450 m, 50 m, Y, LIH | R           | NIL                    | NIL                              |

\* The purpose of simple touchdown zone lights is to provide pilots with enhanced situational awareness in all visibility conditions and to help enable pilots to decide whether to commence a go-around if the aircraft has not landed by a certain point on the runway.

**LSZR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

|   |                                                          |                                                                                     |
|---|----------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1 | ABN/IBN location, characteristics and hours of operation | NIL                                                                                 |
| 2 | LDI location and LGT<br>Anemometer location and LGT      | Anemometer:<br>RWY 10: 220 m E of THR 10, LGTD<br>RWY 28: 140 m W of THR 28, LGTD   |
| 3 | TWY edge and centre line lighting                        | Edge: LIL, B; TWY A and S partly, Turn pads 10/28<br>Centre line: NIL<br>RGL: A,S,N |
| 4 | Secondary power supply/switch-over time                  | Yes / max 15s; DEP VIS less than 800m < 1s                                          |
| 5 | Remarks                                                  | Apron flood lights.<br>Obstacles marked and LGTD (partly)                           |

## LSZR AD 2.16 HELICOPTER LANDING AREA

|   |                                                           |                                                                                                                                     |
|---|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Coordinates TLOF or THR of FATO                           | TLOF: Main Apron: 47 29 13.87N / 009 33 10.73E<br>TLOF: Hangar B2: 47 29 13.74N / 009 33 44.68E                                     |
| 2 | TLOF and/or FATO elevation M/FT                           | TLOF: Main Apron: 398 m / 1306 ft<br>TLOF: Hangar B2: 398 m / 1306 ft                                                               |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | TLOF: Main Apron: TLOF stand MAX OAL or OAW 15.6 m, ASPH, marked<br>TLOF: Hangar B2: TLOF stand MAX OAL or OAW 13.0 m, ASPH, marked |
| 4 | True and MAG BRG of FATO                                  | RWY 10: GRASS; 099° GEO / 097° MAG<br>RWY 28: GRASS; 279° GEO / 277° MAG                                                            |
| 5 | Declared distance available                               | See: <a href="#">LSZR AD 2.13</a> for RWY 10-28 GRASS                                                                               |
| 6 | APP and FATO lighting                                     | NIL                                                                                                                                 |
| 7 | Remarks                                                   | NIL                                                                                                                                 |

## LSZR AD 2.17 ATS AIRSPACE

|   |                                |                                                                                                                                                                                                                                                                                                                                                              |
|---|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Designation and lateral limits | <b>St. Gallen CTR</b><br>47 33 08 N 009 31 28 E - FIR SWITZERLAND/FIR MUNICH -<br>47 32 31 N 009 33 16 E - German/Austrian border -<br>47 31 31 N 009 37 50 E - arc of circle radius 1.90 NM on<br>47 29 40 N 009 37 08 E - 47 27 46 N 009 37 13 E -<br>47 28 40 N 009 23 09 E - 47 31 13 N 009 23 36 E -<br>47 33 29 N 009 26 51 E - 47 33 08 N 009 31 28 E |
| 2 | Vertical limits                | 5500 ft AMSL (1700 m)                                                                                                                                                                                                                                                                                                                                        |
| 3 | Airspace classification        | D                                                                                                                                                                                                                                                                                                                                                            |
| 4 | ATS unit call sign Language(s) | En                                                                                                                                                                                                                                                                                                                                                           |
| 5 | Transition altitude            | 5000 ft AMSL                                                                                                                                                                                                                                                                                                                                                 |
| 6 | Remarks                        | ACT: HX - ATIS (monitoring compulsory)                                                                                                                                                                                                                                                                                                                       |

## LSZR AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation                                   | Call sign         | Frequency                                                           | Hours of Operation | Remarks                             |
|-------------------------------------------------------|-------------------|---------------------------------------------------------------------|--------------------|-------------------------------------|
| 1                                                     | 2                 | 3                                                                   | 4                  | 5                                   |
| ATIS                                                  |                   | 123.780 MHz                                                         | H24                | Phone Service: +41 (0) 71 858 51 66 |
| APP                                                   | Zurich Arrival    | 119.925 MHz                                                         | H24                |                                     |
| TWR                                                   | St. Gallen Tower  | 135.430 MHz<br>119.700 MHz <sup>2</sup><br>121.500 MHz <sup>1</sup> | HX                 | QDM AVBL O/R                        |
| GND                                                   | St. Gallen Ground | 121.805 MHz                                                         | HX <sup>3</sup>    |                                     |
| 1. EMERG<br>2. ALTN FREQ<br>3. According to ATIS INFO |                   |                                                                     |                    |                                     |

**LSZR AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

| Type Category (Variation) | ID  | Frequency  | Hours of operation | Site of transmitting antenna coordinates | Elevation of DME transmitting antenna | Remarks                                                                                                                                                                                                                                                                                                                         |
|---------------------------|-----|------------|--------------------|------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                         | 2   | 3          | 4                  | 5                                        | 6                                     | 7                                                                                                                                                                                                                                                                                                                               |
| ILS 10-LOC CAT I          | IAL | 108.75 MHz | H24                | 47 29 01.43N<br>009 34 14.96E            |                                       | LOC PSN: 146 m FM THR 28.<br><b>RWY 10:</b> LOC course 097° MAG. LOC axis offset 0.78° N.<br>Front course sector width 5°.<br>Reduced ICAO coverage:<br>at 10 NM; +/- 15° from CL above 3600 ft AMSL.<br>Linearly raising to:<br>at 10 NM; +/- 35° from CL above 4500 ft AMSL.<br>at 18 NM; +/- 10° from CL above 3600 ft AMSL. |
| GP 10                     |     | 330.35 MHz | H24                | 47 29 05.94N<br>009 33 15.53E            |                                       | GP Angle 4°. PSN: 220 m FM THR 10.<br>GP HGT THR 10: 48 ft / 14.6 m.                                                                                                                                                                                                                                                            |
| DME 10                    | IAL | 24Y        | H24                | 47 29 06.07N<br>009 33 15.56E            | 1333 ft                               | DME Co-located with GP.<br>Zero range at DME station.<br>Reduced coverage:<br>at 10 NM; +/- 15° from CL above 3600 ft AMSL.<br>Linearly raising to:<br>at 10 NM; +/- 35° from CL above 4500 ft AMSL.<br>at 18 NM; +/- 10° from CL above 3600 ft AMSL.                                                                           |

**LSZR AD 2.20 LOCAL TRAFFIC REGULATIONS****1. Local flying restrictions and remarks****1.1 APCH**

NIL

**1.2 DEP**

- ATC FPL: compulsory
- Start-up CLR: IFR, SVFR and NVFR FLT's on FREQ provided by ATIS

**Training FLT of less than 20 MIN DUR** are only admitted at the following times:

MON-FRI: 0700 - 1100, 1230 - 1730 (0600 - 1000, 1130 - 1630)

SAT: 0700 - 1100 (0600 - 1000)

Additionally, the above mentioned FLT's are **prohibited** on the following Swiss and/or Austrian HOL: JAN 06, Good FRI, Easter MON, MAY 01, Ascension Day, Whit MON, Corpus Christi, National HOL (AUG 01), Assumption Day (AUG 15), Austrian National HOL (OCT 26), All Saint's Day (NOV 01), DEC 08 and DEC 26.

PPR for non-Turbofan equipped Jet ACFT (in accordance with to ICAO Annex 16, Volume1, Chapter 2)

**1.3 RMK**

No simultaneous use of CONC RWY and grass RWY.

**1.4 SAFETY RULES**

Use of high-visibility jacket which complies with EN 471 standard class 2 or 3 is mandatory for Flight Crews and Aircraft Technicians on Apron West and Apron East. In all other areas of the aerodrome the use of high visibility jackets is recommended.

## **1.5 LOCAL REGULATION**

MAINT engine runs: see information on website.

URL: <http://www.peoples.ch>

## **LSZR AD 2.21 NOISE ABATEMENT PROCEDURES**

### **1. Reverse thrust**

For deceleration, it is recommended that the entire RWY LEN AVBL is used; Reverse thrust shall be used for safety or operational reasons only.

### **2. Taxi and holding**

Aeroplanes shall be operated with MNM noise level on ground.

### **3. Meteo condition**

If Meteo condition permits, due to noise restrictions expect RWY 10 for landing and RWY 28 for departure.

**LSZR AD 2.22 FLIGHT PROCEDURES****1. Special regulations for IFR approach and departure****1.1 SID Descriptions****1.1.1 SID RWY 10 RNAV 1 (see chart LSZR AD 2.24.7 - 1)**

| DESIGNATOR                                                                                        | RWY 10 RNAV 1                                                                                                                            |                                                                                                                                                                         |         |                                                     |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------|
|                                                                                                   | ROUTE                                                                                                                                    |                                                                                                                                                                         | Contact | Remark                                              |
|                                                                                                   | Lateral                                                                                                                                  | Vertical                                                                                                                                                                |         |                                                     |
| <b>ALAGO 5L</b><br>PDG 6.5% to<br>1800 ft due to airspace<br>restrictions only.                   | Climb straight ahead. At 1800 ft turn left (MAX IAS 160 kt, MNM bank angle 20°). Proceed via ZR501, ENIBI to ALAGO.                      | Initial climb clearance<br>5000 ft.<br>Cross ZR501 at 5000 ft<br>or above.                                                                                              | NIL     | For routing after<br>ALAGO see LSZH<br>AD 2.24.6-1. |
| <b>BEMKI 3L</b><br>PDG 6.5% to<br>1800 ft due to airspace<br>restrictions only.                   | Climb straight ahead. At 1800 ft turn left (MAX IAS 160 kt, MNM bank angle 20°). Proceed via ZR502, OKPUS, TUSRO, XASIS, EVTAT to BEMKI. | Initial climb clearance<br>5000 ft.<br>Cross ZR502 at 5000 ft<br>or above, TUSRO at<br>8500 ft or above, XASIS<br>at 9000 ft or above,<br>EVTAT at 9500 ft or<br>above. | NIL     | NIL                                                 |
| <b>KEMPTEN 4L</b><br>(KPT 4L)<br>PDG 6.5% to<br>1800 ft due to airspace<br>restrictions only.     | Climb straight ahead. At 1800 ft turn left (MAX IAS 160 kt, MNM bank angle 20°). Proceed via ZR502, OKPUS to KPT.                        | Initial climb clearance<br>5000 ft.<br>Cross ZR502 at 5000 ft<br>or above.                                                                                              | NIL     | NIL                                                 |
| <b>TRASADINGEN 3L</b><br>(TRA 3L)<br>PDG 6.5% to<br>1800 ft due to airspace<br>restrictions only. | Climb straight ahead. At 1800 ft turn left (MAX IAS 160 kt, MNM bank angle 20°). Proceed via ZR501, ENIBI, TINOX to TRA.                 | Initial climb clearance<br>5000 ft.<br>Cross ZR501 at 5000 ft<br>or above.                                                                                              | NIL     | NIL                                                 |

| RNAV 1 SID ALAGO 5L |          |         |               |                  |                |               |
|---------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator     | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| CA                  | -        | -       | 1800          | 160              | 097° (098.7°T) | -             |
| DF                  | ZR501    | N       | +5000         | 160              | -              | -             |
| TF                  | ENIBI    | N       | -             | -                | 360° (001.8°T) | 4.6           |
| TF                  | ALAGO    | N       | -             | -                | 335° (336.9°T) | 7.7           |

| RNAV 1 SID BEMKI 3L |          |         |               |                  |                |               |
|---------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator     | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| CA                  | -        | -       | 1800          | 160              | 097° (098.7°T) | -             |
| DF                  | ZR502    | N       | +5000         | 160              | -              | -             |
| TF                  | OKPUS    | N       | -             | -                | 072° (073.5°T) | 13.7          |
| TF                  | TUSRO    | N       | +8500         | -                | 112° (114.1°T) | 2.8           |
| TF                  | XASIS    | N       | +9000         | -                | 112° (114.1°T) | 7.6           |
| TF                  | EVTAT    | N       | +9500         | -                | 112° (114.3°T) | 3.3           |
| TF                  | BEMKI    | N       | -             | -                | 112° (114.3°T) | 2.2           |

| RNAV 1 SID KPT 4L |          |         |               |                  |                |               |
|-------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator   | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| CA                | -        | -       | 1800          | 160              | 097° (098.7°T) | -             |
| DF                | ZR502    | N       | +5000         | 160              | -              | -             |
| TF                | OKPUS    | N       | -             | -                | 072° (073.5°T) | 13.7          |
| TF                | KPT      | N       | -             | -                | 072° (073.7°T) | 16.9          |

| RNAV 1 SID TRA 3L |          |         |               |                  |                |               |
|-------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator   | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| CA                | -        | -       | 1800          | 160              | 097° (098.7°T) | -             |
| DF                | ZR501    | N       | +5000         | 160              | -              | -             |
| TF                | ENIBI    | N       | -             | -                | 360° (001.8°T) | 4.6           |
| TF                | TINOX    | N       | -             | -                | 297° (299.3°T) | 19.0          |
| TF                | TRA      | N       | -             | -                | 251° (252.9°T) | 29.3          |

1.1.2 SID RWY 10 RNAV 5 (see chart LSZR AD 2.24.7 - 3)

| DESIGNATOR                        | RWY 10 RNAV 5                                                                                                                                                                                                                                                      |  |                                                                                                                                                       |         |                                                                                                                     |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------|
|                                   | ROUTE                                                                                                                                                                                                                                                              |  |                                                                                                                                                       | Contact | Remark                                                                                                              |
|                                   | Lateral                                                                                                                                                                                                                                                            |  | Vertical                                                                                                                                              |         |                                                                                                                     |
| <b>ALAGO 1M</b>                   | Climb straight ahead. At 1800 ft turn left (MAX IAS 160 kt, MNM bank angle 20°). Establish TR255 to intercept LOC IAL outbound. Proceed to SITOR (LOC/D9 IAL). At SITOR turn right (MAX IAS 180 kt). Proceed via ZR500, ZR501, ENIBI to ALAGO.                     |  | Initial climb clearance 5000 ft.<br>Cross SITOR at 5000 ft or above.                                                                                  | NIL     | RNAV applicable when passing SITOR.<br>MAX IAS 240 kt until ENIBI.<br>For routing after ALAGO see LSZH AD 2.24.6-1. |
| <b>BEMKI 1M</b>                   | Climb straight ahead. At 1800 ft turn left (MAX IAS 160 kt, MNM bank angle 20°). Establish TR255 to intercept LOC IAL outbound. Proceed to SITOR (LOC/D9 IAL). At SITOR turn right (MAX IAS 180 kt). Proceed via ZR500, ZR502, OKPUS TUSRO, XASIS, EVTAT to BEMKI. |  | Initial climb clearance 5000 ft.<br>Cross SITOR at 5000 ft or above, TUSRO at 8500 ft or above, XASIS at 9000 ft or above, EVTAT at 9500 ft or above. | NIL     | RNAV applicable when passing SITOR.                                                                                 |
| <b>TRASADINGEN 1M</b><br>(TRA 1M) | Climb straight ahead. At 1800 ft turn left (MAX IAS 160 kt, MNM bank angle 20°). Establish TR255 to intercept LOC IAL outbound. Proceed to SITOR (LOC/D9 IAL). At SITOR turn right (MAX IAS 180 kt). Proceed via ZR500, ZR501, ENIBI, TINOX to TRA.                |  | Initial climb clearance 5000 ft.<br>Cross SITOR at 5000 ft or above.                                                                                  | NIL     | RNAV applicable when passing SITOR.<br>MAX IAS 240 kt until ENIBI.                                                  |

| RNAV Segment of RNAV 5 SID ALAGO 1M |          |         |               |                  |                |               |
|-------------------------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator                     | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| -                                   | SITOR    | Y       | +5000         | 180              | -              | -             |
| DF                                  | ZR500    | N       | -             | 180              | -              | -             |
| TF                                  | ZR501    | N       | -             | 240              | 072° (073.8°T) | 4.7           |
| TF                                  | ENIBI    | N       | -             | 240              | 360° (001.8°T) | 4.6           |
| TF                                  | ALAGO    | N       | -             | -                | 335° (336.9°T) | 7.7           |

| RNAV Segment of RNAV 5 SID BEMKI 1M |          |         |               |                  |                |               |
|-------------------------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator                     | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| -                                   | SITOR    | Y       | +5000         | 180              | -              | -             |
| DF                                  | ZR500    | N       | -             | 180              | -              | -             |
| TF                                  | ZR502    | N       | -             | -                | 079° (081.2°T) | 8.4           |
| TF                                  | OKPUS    | N       | -             | -                | 072° (073.5°T) | 13.7          |
| TF                                  | TUSRO    | N       | +8500         | -                | 112° (114.1°T) | 2.8           |
| TF                                  | XASIS    | N       | +9000         | -                | 112° (114.1°T) | 7.6           |
| TF                                  | EVTAT    | N       | +9500         | -                | 112° (114.3°T) | 3.3           |
| TF                                  | BEMKI    | N       | -             | -                | 112° (114.3°T) | 2.2           |

| RNAV Segment of RNAV 5 SID TRA 1M |          |         |               |                  |                |               |
|-----------------------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator                   | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| -                                 | SITOR    | Y       | +5000         | 180              | -              | -             |
| DF                                | ZR500    | N       | -             | 180              | -              | -             |
| TF                                | ZR501    | N       | -             | 240              | 072° (073.8°T) | 4.7           |
| TF                                | ENIBI    | N       | -             | 240              | 360° (001.8°T) | 4.6           |
| TF                                | TINOX    | N       | -             | -                | 297° (299.3°T) | 19.0          |
| TF                                | TRA      | N       | -             | -                | 251° (252.9°T) | 29.3          |

### 1.1.3 SID RWY 10 non RNAV (see chart LSZR AD 2.24.7 - 5)

| DESIGNATOR                    | RWY 10 NON RNAV                                                                                                                                                                                                                                                    |                                                                                                                         |         |        |  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------|--------|--|
|                               | ROUTE                                                                                                                                                                                                                                                              |                                                                                                                         |         |        |  |
|                               | Lateral                                                                                                                                                                                                                                                            | Vertical                                                                                                                | Contact | Remark |  |
| <b>AMIKI 1M</b>               | Climb straight ahead. At <i>1800 ft</i> turn left (MAX IAS 160 kt, MNM bank angle 20°). Establish TR255 to intercept LOC IAL outbound. Proceed to SITOR (LOC/D9 IAL). At SITOR turn right. Establish TR305 to intercept R095 ZUE. Proceed to AMIKI.                | Initial climb clearance <i>5000 ft</i> .<br>Cross SITOR at <i>5000 ft</i> or above, AMIKI at <i>7000 ft</i> or above.   | NIL     | NIL    |  |
| <b>KEMPTEN 1M</b><br>(KPT 1M) | Climb straight ahead. At <i>1800 ft</i> turn left (MAX IAS 160 kt, MNM bank angle 20°). Establish TR255 to intercept LOC IAL outbound. Proceed to SITOR (LOC/D9 IAL). At SITOR turn right (MAX IAS 180 kt). Establish TR073 to intercept R252 KPT. Proceed to KPT. | Initial climb clearance <i>5000 ft</i> .<br>Cross SITOR at <i>5000 ft</i> or above, D33 KPT at <i>8000 ft</i> or above. | NIL     | NIL    |  |
| <b>SITOR 1M</b>               | Climb straight ahead. At <i>1800 ft</i> turn left (MAX IAS 160 kt, MNM bank angle 20°). Establish TR255 to intercept LOC IAL outbound. Proceed to SITOR (LOC/D9 IAL). Enter SITOR HLDG pattern.                                                                    | Initial climb clearance <i>5000 ft</i> .<br>Cross SITOR at <i>5000 ft</i> or above.                                     | NIL     | NIL    |  |

1.1.4 SID RWY 28 RNAV 1 (see chart LSZR AD 2.24.7 - 7)

| DESIGNATOR                                                                                        | RWY 28 RNAV 1                                                                                                         |                                                                                                                                                                      |         |                                                        |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------|
|                                                                                                   | ROUTE                                                                                                                 |                                                                                                                                                                      | Contact | Remark                                                 |
|                                                                                                   | Lateral                                                                                                               | Vertical                                                                                                                                                             |         |                                                        |
| <b>ALAGO 5R</b><br>PDG 7.0% to<br>5000 ft due to airspace<br>restrictions only.                   | Climb straight ahead. At 2300 ft turn right (MAX IAS 180 kt). Proceed via ZR501, ENIBI to ALAGO.                      | Initial climb clearance<br>5000 ft.<br>Cross ZR501 at 5000 ft or<br>above.                                                                                           | NIL     | For routing<br>after ALAGO<br>see LSZH AD<br>2.24.6-1. |
| <b>BEMKI 3R</b><br>PDG 6.7% to<br>5000 ft due to airspace<br>restrictions only.                   | Climb straight ahead. At 2300 ft turn right (MAX IAS 180 kt). Proceed via ZR502, OKPUS, TUSRO, XASIS, EVTAT to BEMKI. | Initial climb clearance<br>5000 ft.<br>Cross ZR502 at 5000 ft<br>or above,<br>TUSRO at 8500 ft or above,<br>XASIS at 9000 ft or above,<br>EVTAT at 9500 ft or above. | NIL     | NIL                                                    |
| <b>KEMPTEN 4R</b><br>(KPT 4R)<br>PDG 6.7% to<br>5000 ft due to airspace<br>restrictions only.     | Climb straight ahead. At 2300 ft turn right (MAX IAS 180 kt). Proceed via ZR502, OKPUS to KPT.                        | Initial climb clearance<br>5000 ft.<br>Cross ZR502 at 5000 ft or<br>above.                                                                                           | NIL     | NIL                                                    |
| <b>TRASADINGEN 3R</b><br>(TRA 3R)<br>PDG 7.0% to<br>5000 ft due to airspace<br>restrictions only. | Climb straight ahead. At 2300 ft turn right (MAX IAS 180 kt). Proceed via ZR501, ENIBI, TINOX to TRA.                 | Initial climb clearance<br>5000 ft.<br>Cross ZR501 at 5000 ft or<br>above.                                                                                           | NIL     | NIL                                                    |

| RNAV 1 SID ALAGO 5R |          |         |               |                  |                |               |
|---------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator     | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| CA                  | -        | -       | 2300          | 180              | 277° (278.8°T) | -             |
| DF                  | ZR501    | N       | +5000         | 180              | -              | -             |
| TF                  | ENIBI    | N       | -             | -                | 360° (001.8°T) | 4.6           |
| TF                  | ALAGO    | N       | -             | -                | 335° (336.9°T) | 7.7           |

| RNAV 1 SID BEMKI 3R |          |         |               |                  |                |               |
|---------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator     | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| CA                  | -        | -       | 2300          | 180              | 277° (278.8°T) | -             |
| DF                  | ZR502    | N       | +5000         | 180              | -              | -             |
| TF                  | OKPUS    | N       | -             | -                | 072° (073.5°T) | 13.7          |
| TF                  | TUSRO    | N       | +8500         | -                | 112° (114.1°T) | 2.8           |
| TF                  | XASIS    | N       | +9000         | -                | 112° (114.1°T) | 7.6           |
| TF                  | EVTAT    | N       | +9500         | -                | 112° (114.3°T) | 3.3           |
| TF                  | BEMKI    | N       | -             | -                | 112° (114.3°T) | 2.2           |

| RNAV 1 SID KPT 4R |          |         |               |                  |                |               |
|-------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator   | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| CA                | -        | -       | 2300          | 180              | 277° (278.8°T) | -             |
| DF                | ZR502    | N       | +5000         | 180              | -              | -             |
| TF                | OKPUS    | N       | -             | -                | 072° (073.5°T) | 13.7          |
| TF                | KPT      | N       | -             | -                | 072° (073.7°T) | 16.9          |

| RNAV 1 SID TRA 3R |          |         |               |                  |                |               |
|-------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator   | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| CA                | -        | -       | 2300          | 180              | 277° (278.8°T) | -             |
| DF                | ZR501    | N       | +5000         | 180              | -              | -             |
| TF                | ENIBI    | N       | -             | -                | 360° (001.8°T) | 4.6           |
| TF                | TINOX    | N       | -             | -                | 297° (299.3°T) | 19.0          |
| TF                | TRA      | N       | -             | -                | 251° (252.9°T) | 29.3          |

## 1.1.5 SID RWY 28 RNAV 5 (see chart LSZR AD 2.24.7 - 9)

| DESIGNATOR                        | RWY 28 RNAV 5                                                                                                                                                                    |  |                                                                                                                                                                                           |         |                                                                                                                     |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------|
|                                   | ROUTE                                                                                                                                                                            |  |                                                                                                                                                                                           | Contact | Remark                                                                                                              |
|                                   | Lateral                                                                                                                                                                          |  | Vertical                                                                                                                                                                                  |         |                                                                                                                     |
| <b>ALAGO 4V</b>                   | Climb straight ahead. Use LOC IAL outbound for track guidance. At SITOR (LOC/D9 IAL) turn right (MAX IAS 180 kt). Proceed via ZR500, ZR501, ENIBI to ALAGO.                      |  | Initial climb clearance <i>5000 ft</i> .<br>Cross SITOR at <i>5000 ft</i> or above.                                                                                                       | NIL     | RNAV applicable when passing SITOR.<br>MAX IAS 240 kt until ENIBI.<br>For routing after ALAGO see LSZH AD 2.24.6-1. |
| <b>BEMKI 2V</b>                   | Climb straight ahead. Use LOC IAL outbound for track guidance. At SITOR (LOC/D9 IAL) turn right (MAX IAS 180 kt). Proceed via ZR500, ZR502, OKPUS, TUSRO, XASIS, EVTAT to BEMKI. |  | Initial climb clearance <i>5000 ft</i> .<br>Cross SITOR at <i>5000 ft</i> or above, TUSRO at <i>8500 ft</i> or above, XASIS at <i>9000 ft</i> or above, EVTAT at <i>9500 ft</i> or above. | NIL     | RNAV applicable when passing SITOR.                                                                                 |
| <b>TRASADINGEN 2V</b><br>(TRA 2V) | Climb straight ahead. Use LOC IAL outbound for track guidance. At SITOR (LOC/D9 IAL) turn right (MAX IAS 180 kt). Proceed via ZR500, ZR501, ENIBI, TINOX to TRA.                 |  | Initial climb clearance <i>5000 ft</i> .<br>Cross SITOR at <i>5000 ft</i> or above.                                                                                                       | NIL     | RNAV applicable when passing SITOR.<br>MAX IAS 240 kt until ENIBI.                                                  |

| RNAV 5 SID ALAGO 4V |          |         |               |                  |                |               |
|---------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator     | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| -                   | SITOR    | Y       | +5000         | 180              | -              | -             |
| DF                  | ZR500    | N       | -             | 180              | -              | -             |
| TF                  | ZR501    | N       | -             | 240              | 072° (073.8°T) | 4.7           |
| TF                  | ENIBI    | N       | -             | 240              | 360° (001.8°T) | 4.6           |
| TF                  | ALAGO    | N       | -             | -                | 335° (336.9°T) | 7.7           |

| RNAV 5 SID BEMKI 2V |          |         |               |                  |                |               |
|---------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator     | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| -                   | SITOR    | Y       | +5000         | 180              | -              | -             |
| DF                  | ZR500    | N       | -             | 180              | -              | -             |
| TF                  | ZR502    | N       | -             | -                | 079° (081.2°T) | 8.4           |
| TF                  | OKPUS    | N       | -             | -                | 072° (073.5°T) | 13.7          |
| TF                  | TUSRO    | N       | +8500         | -                | 112° (114.1°T) | 2.8           |
| TF                  | XASIS    | N       | +9000         | -                | 112° (114.1°T) | 7.6           |
| TF                  | EVTAT    | N       | +9500         | -                | 112° (114.3°T) | 3.3           |
| TF                  | BEMKI    | N       | -             | -                | 112° (114.3°T) | 2.2           |

| RNAV 5 SID TRA 2V |          |         |               |                  |                |               |
|-------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator   | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| -                 | SITOR    | Y       | +5000         | 180              | -              | -             |
| DF                | ZR500    | N       | -             | 180              | -              | -             |
| TF                | ZR501    | N       | -             | 240              | 072° (073.8°T) | 4.7           |
| TF                | ENIBI    | N       | -             | 240              | 360° (001.8°T) | 4.6           |
| TF                | TINOX    | N       | -             | -                | 297° (299.3°T) | 19.0          |
| TF                | TRA      | N       | -             | -                | 251° (252.9°T) | 29.3          |

1.1.6 SID RWY 28 non RNAV (see chart LSZR AD 2.24.7 - 11)

| DESIGNATOR             | RWY 28 NON RNAV                                                                                                                                                          |                                                                                                                         |         |        |  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------|--------|--|
|                        | ROUTE                                                                                                                                                                    |                                                                                                                         |         |        |  |
|                        | Lateral                                                                                                                                                                  | Vertical                                                                                                                | Contact | Remark |  |
| AMIKI 2V               | Climb straight ahead. Use LOC IAL outbound for track guidance. At SITOR (LOC/D9 IAL) turn right. Establish TR305 to intercept R095 ZUE. Proceed to AMIKI.                | Initial climb clearance <i>5000 ft</i> .<br>Cross SITOR at <i>5000 ft</i> or above, AMIKI at <i>7000 ft</i> or above.   | NIL     | NIL    |  |
| KEMPTEN 3V<br>(KPT 3V) | Climb straight ahead. Use LOC IAL outbound for track guidance. At SITOR (LOC/D9 IAL) turn right (MAX IAS 180 kt). Establish TR073 to intercept R252 KPT. Proceed to KPT. | Initial climb clearance <i>5000 ft</i> .<br>Cross SITOR at <i>5000 ft</i> or above, D33 KPT at <i>8000 ft</i> or above. | NIL     | NIL    |  |
| SITOR 2V               | Climb straight ahead. Use LOC IAL outbound for track guidance. Proceed to SITOR (LOC/D9 IAL). Enter SITOR HLDG pattern.                                                  | Initial climb clearance <i>5000 ft</i> .<br>Cross SITOR at <i>5000 ft</i> or above.                                     | NIL     | NIL    |  |

## 1.2 STAR Descriptions

## 1.2.1 STAR TO SITOR - RNAV 5 (see chart LSZR AD 2.24.9 - 1)

| DESIGNATOR | STAR TO SITOR - RNAV 5                                 |                |                                                                        |
|------------|--------------------------------------------------------|----------------|------------------------------------------------------------------------|
|            | ROUTE                                                  |                | Remark                                                                 |
|            | Lateral                                                | Vertical       |                                                                        |
| GARMO 1H   | From GARMO proceed via ENIBI, LAGOS, AMRIS to SITOR.   | Refer to chart | NIL                                                                    |
| ROLSA 3H   | From ROLSA (MAX IAS 240kt) proceed via ZR675 to SITOR. | Refer to chart | Note:<br>For descent planning expect to cross ROLSA at or below FL130. |

| RNAV 5 STAR GARMO 1H |          |         |               |                  |                |               |
|----------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator      | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| -                    | GARMO    | N       | -             | -                | -              | -             |
| TF                   | ENIBI    | N       | -             | -                | 123° (124.8°T) | 11.7          |
| TF                   | LAGOS    | N       | +6000         | -                | 180° (181.7°T) | 8.4           |
| TF                   | AMRIS    | N       | -             | -                | 248° (250.0°T) | 6.4           |
| TF                   | SITOR    | N       | +5000         | -                | 277° (279.4°T) | 2.0           |

| RNAV 5 STAR ROLSA 3H |          |         |               |                  |                |               |
|----------------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator      | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| -                    | ROLSA    | N       | -FL130        | 240              | -              | -             |
| TF                   | ZR675    | N       | +8000         | -                | 052° (053.9°T) | 14.7          |
| TF                   | SITOR    | N       | +6000         | -                | 052° (054.0°T) | 7.8           |

## 1.2.2 STAR TO SITOR - non RNAV (see chart LSZR AD 2.24.9 - 3)

| DESIGNATOR                 | STAR TO SITOR - NON RNAV                                                                            |                |  |         |        |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------------|--|---------|--------|
|                            | ROUTE                                                                                               |                |  | Contact | Remark |
|                            | Lateral                                                                                             | Vertical       |  |         |        |
| KEMPTEN 3H<br>(KPT 3H)     | At KPT intercept R248 KPT. Proceed to AMRIS. At AMRIS intercept LOC IAL outbound. Proceed to SITOR. | Refer to chart |  | NIL     | NIL    |
| ZURICH EAST 3H<br>(ZUE 3H) | At ZUE intercept R103 ZUE. Proceed to ZR685. At ZR685 intercept LOC IAL. Proceed to SITOR.          | Refer to chart |  | NIL     | NIL    |

## 1.3 Approach procedures:

## 1.3.1 Procedure description of RNP RWY 10 (see chart LSZR AD 2.24.10 - 5)

| From SITOR      |          |         |               |                  |                |               |
|-----------------|----------|---------|---------------|------------------|----------------|---------------|
| Path terminator | Waypoint | Flyover | Altitude (ft) | Speed limit (kt) | Track          | Distance (NM) |
| IF              | SITOR    | N       | +5000         | -                | -              | -             |
| TF              | ZR700    | N       | +5000         | -                | 097° (099.4°T) | 0.3           |
| TF              | ZR701    | Y       | -             | -                | 097° (099.4°T) | 8.3           |
| DF              | ZR702    | Y       | -             | 160              | 098° (099.5°T) | 1.9           |
| DF              | LAGOS    | N       | +4000         | 160              | -              | -             |
| TF              | ZR703    | N       | -             | -                | 255° (256.9°T) | 5.8           |
| TF              | SITOR    | N       | +5000         | -                | 255° (256.8°T) | 2.4           |

#### 1.4 VFR procedure

Refer to VFR Manual, AD INFO.

#### 1.5 Supplementary provisions regarding VFR-flights

Refer to VFR Manual, AD INFO.

### 2. Minima for IFR departures (TKOF minima)

| RWY | ACFT CAT | VIS (m) / Ceiling (ft AGL) |                   |                    | RMK |
|-----|----------|----------------------------|-------------------|--------------------|-----|
|     |          | No LGT AVBL                | REDL or RCLL AVBL | REDL and RCLL AVBL |     |
| All | A        | 800/---                    | 400/---           | ---                | NIL |
|     | B        | 800/---                    | 400/---           | ---                | NIL |
|     | C        | 800/---                    | 400/---           | ---                | NIL |

### LSZR AD 2.23 ADDITIONAL INFORMATION

#### 1. List of significant points

| NAV point | COORD WGS84  |               | Purpose       |
|-----------|--------------|---------------|---------------|
|           | LAT          | LONG          |               |
| 1         | 2            |               | 3             |
| AMRIS     | N 47 30 17.2 | E 009 23 05.2 | STAR LSZR     |
| BEMKI     | N 47 33 33.8 | E 010 18 20.1 | SID LSZR      |
| ENIBI     | N 47 40 52.4 | E 009 32 16.0 | SID/STAR LSZR |
| EVTAT     | N 47 34 28.9 | E 010 15 19.9 | SID LSZR      |
| GARMO     | N 47 47 35.0 | E 009 18 01.0 | STAR LSZR     |
| LAGOS     | N 47 32 28.1 | E 009 31 53.4 | STAR LSZR     |
| OKPUS     | N 47 40 03.4 | E 009 56 58.6 | SID LSZR      |
| TUSRO     | N 47 38 55.6 | E 010 00 43.1 | SID LSZR      |
| XASIS     | N 47 35 49.6 | E 010 10 55.7 | SID LSZR      |
| ZR500     | N 47 34 56.0 | E 009 25 20.8 | SID LSZR      |
| ZR501     | N 47 36 15.1 | E 009 32 03.4 | SID LSZR      |
| ZR502     | N 47 36 12.1 | E 009 37 36.2 | SID LSZR      |
| ZR612     | N 47 38 54   | E 009 57 22   | STAR LSZR     |
| ZR675     | N 47 26 02   | E 009 10 51   | STAR LSZR     |
| ZR685     | N 47 31 56.2 | E 009 08 14.2 | STAR LSZR     |
| ZR695     | N 47 31 05.9 | E 009 15 48.5 | IAC LSZR      |
| ZR700     | N 47 30 33.8 | E 009 20 36.7 | IAC LSZR      |
| ZR701     | N 47 29 12.4 | E 009 32 38.2 | IAC LSZR      |
| ZR702     | N 47 28 53.3 | E 009 35 26.4 | IAC LSZR      |
| ZR703     | N 47 31 09.4 | E 009 23 35.7 | IAC LSZR      |

#### 2. Classification of the Instrument Landing System (ILS)

The ILS on RWY 10 is classified as an ILS Category I with "NIL facilities", in accordance with JAR-OPS 1 Subpart E. Due to the following facts, a classification as ILS Category I with "full facilities" in accordance with JAR-OPS 1 Subpart E, is not possible:

- No ALS is AVBL;
- The APCH angle is steeper (4°) than the ICAO standard (MAX 3.5°);
- The RWY THR crossing HGT is less than 50 ft.

**LSZR AD 2.24 CHARTS RELATED TO AN AERODROME**

| <b>Name</b>                                        | <b>Page</b>         |
|----------------------------------------------------|---------------------|
| Aerodrome Chart                                    | LSZR AD 2.24.1 - 1  |
| Aerodrome Obstacle Chart - Type A - ICAO RWY 10/28 | LSZR AD 2.24.4 - 1  |
| SID RWY 10 - RNAV 1                                | LSZR AD 2.24.7 - 1  |
| SID RWY 10 - RNAV 5                                | LSZR AD 2.24.7 - 3  |
| SID RWY 10 - NON RNAV                              | LSZR AD 2.24.7 - 5  |
| SID RWY 28 - RNAV 1                                | LSZR AD 2.24.7 - 7  |
| SID RWY 28 - RNAV 5                                | LSZR AD 2.24.7 - 9  |
| SID RWY 28 - NON RNAV                              | LSZR AD 2.24.7 - 11 |
| STAR to SITOR - RNAV 5                             | LSZR AD 2.24.9 - 1  |
| STAR to SITOR - NON RNAV                           | LSZR AD 2.24.9 - 3  |
| IAC ILS RWY 10 CAT A/B/C                           | LSZR AD 2.24.10 - 1 |
| IAC LOC RWY 10 CAT A/B/C                           | LSZR AD 2.24.10 - 3 |
| IAC RNP RWY 10 CAT A/B/C                           | LSZR AD 2.24.10 - 5 |
| ATC Surveillance Minimum Altitude Chart            | LSZR AD 2.24.13 - 1 |

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