LSZG - GRENCHEN

LSZG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZG - GRENCHEN

LSZG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	47 10 53 N 007 24 59 E RWY midpoint
2	**Direction and distance from the CITY**	1.5 km SE Grenchen
3	**Elevation/Reference temperature**	*1411 ft AMSL* - 24.0° C
4	**Geoid undulation at AD ELEV PSN**	160.5 ft
5	**MAG VAR/Annual change**	2° E (2016) / 0° 11' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Regionalflugplatz Jura-Grenchen AG CH-2540 **Grenchen** Phone: +41 (0) 32 396 96 96 AFS: LSZGYDYX Email: office@airport-grenchen.ch URL: http://www.airport-grenchen.ch/
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSZG AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	1. JAN-DEC 0700 (0600) - HRH; MAX 2000 (1900) 2. Outside OPR HR O/R - 1500 (1400) 3. WED AD OPN till 1900 (1800) for Night FLT (VFR + IFR) except DEC 26 and JAN 02 4. AD CLSD: DEC 25, DEC 26, JAN 01 HRH = Day and night limits. REF: GEN 2.7.
2	**Customs and immigration**	AD OPR HR; Customs procedures and documents see: URL: https://zollform.airport-grenchen.ch Declaring goods O/R customs Bern TEL +41 (0) 58 462 68 69
3	**Health and sanitation**	NIL
4	**AIS Briefing Office**	AD OPR HR
5	**ATS Reporting Office (ARO)**	NIL
6	**MET Briefing Office**	NIL
7	**ATS**	HX
8	**Fuelling**	AD OPR HR
9	**Handling**	NIL
10	**Security**	NIL
11	**De-icing**	NIL
12	**Remarks**	NIL

LSZG AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities**	NIL
2	**Fuel/oil types**	JET A1, AVGAS 100LL 80/100; 15W50
3	**Fuelling facilities/capacity**	HEL without landing gear airtaxi to H4.
4	**De-icing facilities**	NIL
5	**Hangar space for visiting aircraft**	Restricted
6	**Repair facilities for visiting aircraft**	Hangar, major aircraft repairs and minor engine repairs for ACFT up to 5700 kg
7	**Remarks**	Oxygen and related servicing (working days only)

LSZG AD 2.5 PASSENGER FACILITIES

1	**Hotels**	At AD and in city
2	**Restaurants**	At AD and in city
3	**Transportation**	Buses, Taxi, Rental car available O/R TEL +41 (0) 32 396 96 96
4	**Medical facilities**	Ambulance O/R; Hospital in Solothurn
5	**Bank and Post Office**	In city
6	**Tourist Office**	In city
7	**Remarks**	NIL

LSZG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 1 Higher category (MAX 3): O/R 3 HR before ETA/ETD
2	**Rescue equipment**	1 fire vehicle, defibrillator, rescue vessel
3	**Capability for removal of disabled aircraft**	NIL
4	**Remarks**	NIL

LSZG AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	Snow removal available
2	**Clearance priorities**	NIL
3	**Remarks**	Seasonal availability: All seasons

LSZG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Desigantion, surface and strength of Aprons**	ASPH: - PCN 30 F/C/Y/T
2	**Designation, width, surface and strength of Taxiways**	10.5 m ASPH: - PCN 30 F/C/Y/T TWY A and D: max. wingspan 24.0 m TWY N: max. wingspan 21.0 m Details: ref to LSZG AD 2.24.2 - 1
3	**ACL location and elevation**	Apron *1411 ft*
4	**Location of VOR checkpoints**	NIL
5	**Location of INS checkpoints**	NIL
6	**Remarks**	NIL

LSZG AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM, MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	Guidance sign boards, TWY CL Restrictions see: ACFT PRKG Chart LSZG AD 2.24.2 - 1
2	**RWY/TWY markings and LGT**	RWY, TWY and holding PSN markings. RGL: TWY A and D TWY edge lights: TWY A and D
3	**Stop bars and RWY guard lights**	NIL
4	**Other RWY protection measures**	NIL
5	**Remarks**	NIL

LSZG AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas				In circling area and at aerodrome			
1				2			3
RWY/Area affected	**Obstacle type Elevation Markings/LGT**		**Co-ordinates**	**Obstacle type Elevation Markings/LGT**		**Co-ordinates**	**RMK**
a	**b**		**c**	**a**		**b**	**c**
		ft			*ft*		
AOC 06 (1)	Pole	*1409*	47 11 00 N 007 25 24 E	Chimney marked/LGTD	*1700*	47 08 46 N 007 32 49 E	B0471/02
AOC 06 (2)	Pole	*1410*	47 11 01 N 007 25 23 E	Pole marked	*1437*	47 10 45 N 007 24 54 E	B0362/07
AOC 06 (3)	Tree/Trees	*1437*	47 11 02 N 007 25 24 E	Crane/Cranes marked/LGTD	*1679*	47 11 49 N 007 23 41 E	B0455/22
AOC 06 (4)	Tree/Trees	*1453*	47 11 03 N 007 25 51 E	Crane/Cranes marked/LGTD	*1634*	47 11 46 N 007 25 01 E	B0497/22
AOC 06 (5)	Tree/Trees	*1468*	47 11 04 N 007 25 51 E				
AOC 06 (6)	Tree/Trees	*1485*	47 11 14 N 007 25 52 E				
AOC 24 (1)	Pole	*1418*	47 10 44 N 007 24 40 E				
AOC 24 (2)	Pole	*1418*	47 10 44 N 007 24 39 E				
AOC 24 (3)	Pole	*1419*	47 10 46 N 007 24 36 E				
AOC 24 (4)	Pole	*1422*	47 10 48 N 007 24 34 E				
AOC 24 (5)	Tree/Trees	*1453*	47 10 44 N 007 24 11 E				
AOC 24 (6)	Pole	*1462*	47 10 32 N 007 24 10 E				
AOC 24 (7)	Tree/Trees	*1471*	47 10 36 N 007 23 57 E				
AOC 24 (8)	Tree/Trees	*1493*	47 10 36 N 007 23 56 E				
Refer also to LSZG AOC 06/24, LSZG AD 2.24.4 - 1 Number in brackets is equivalent to identification number on AOC							

LSZG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	**Associated MET Office**	MeteoSwiss
2	**Hours of service**	H24
3	**Office responsible for TAF preparation** **Periods of validity**	MeteoSwiss, Zurich 9 hours
4	**Type of landing forecast**	NIL
5	**Briefing/consultation provided**	Self Briefing Service (www.skybriefing.com)
6	**Flight documentation** **Language(s) used**	Digital and hard copy En, Ge, Fr
7	**Charts and other information available for briefing or consultation**	All area forecast charts available worldwide
8	**Supplementary equipment available for providing information**	NIL
9	**ATS units provided with information**	CTR: Grenchen TWR / RMZ: ATIS
10	**Additional information (limitation of service, etc.)**	Weather briefing: Phone: 0900 162 737 (Ge); accessible within Switzerland RMZ: MET INFO on ATIS

LSZG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR COORD	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY
1	2	3	4	5	6	7
06	066° GEO 064° MAG	1000 x 23	PCN 44/F/C/X/T ASPH	47 10 48.99N 007 24 45.88E	*1407 ft*	Refer to: LSZG AOC RWY 06/24
24	246° GEO 244° MAG			47 11 00.54N 007 25 23.51E	*1405 ft*	
06 L	066° GEO 064° MAG	390 x 18	0.25 MPa GRASS	NIL	NIL	NIL
24 R	246° GEO 244° MAG					
06 R	066° GEO 064° MAG	700 x 30	0.25 MPa GRASS	NIL	NIL	NIL
24 L	246° GEO 244° MAG					
06 GLD	066° GEO 064° MAG	700 x 30	0.25 MPa GRASS	NIL	NIL	NIL
24 GLD	246° GEO 244° MAG					

Designations RWY NR	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
1	8	9	10	11	12
06	NIL	NIL	1060 x 60	not applicable	Non-instrument runway Grooved 1000 m
24					Non-instrument runway Grooved 1000 m
06 L	NIL	NIL	450 x 60	not applicable	Powered-aircraft runway
24 R					
06 R	NIL	NIL	760 x 60	not applicable	Powered-aircraft runway
24 L					
06 GLD	NIL	NIL	760 x 60	not applicable	Glider runway
24 GLD					

LSZG AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
06	955 [1]	955 [1]	955 [1]	865	Line-up TWY A
24	980 [2]	980 [2]	980 [2]	1000	Full length
	660	660	660	not applicable	Intersection TWY D
06 L 24 R	not applicable	not applicable	not applicable	not applicable	GRASS RWY: Refer to VFR Manual LSZG AD INFO + VAC. Familiarisation mandatory.
06 R 24 L	not applicable	not applicable	not applicable	not applicable	GRASS RWY: Refer to VFR Manual LSZG AD INFO + VAC
06 GLD 24 GLD	not applicable	not applicable	not applicable	not applicable	GLIDER RWY: Refer to VFR Manual LSZG AD INFO + VAC

[1] MAX 980 m with use of 25 m take-off run extension due to runway code number criteria
[2] Due to runway code number criteria

LSZG AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	ALS Type, LEN, INTST	THR LGT Colour, INTST, WBAR	VASIS Type, PSN, MEHT	RTZL LEN, INTST	RCLL LEN, spacing, colour, INTST	REDL LEN, spacing, colour, INTST	RENL Colour, INTST	SWY LGT LEN, colour	RMK
1	2	3	4	5	6	7	8	9	10
06	NIL	RTHL LIH/LIL G - RTIL FLG W	APAPI: 3.5° (3.0 m)	NIL	NIL	LIH/LIL W	LIH/LIL R	NIL	NIL
24	NIL	RTHL LIH/LIL G - RTIL FLG W	APAPI: 3.5° (5.5 m)	NIL	NIL	LIH/LIL W	LIH/LIL R	NIL	NIL

LSZG AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	**ABN/IBN location, characteristics and hours of operation**	NIL
2	**LDI location and LGT** **Anemometer location and LGT**	NIL
3	**TWY edge and centre line lighting**	EDGE: LIL B RGL: A, D
4	**Secondary power supply/switch-over time**	AVBL / < 1sec
5	**Remarks**	Obstruction marking and lighting

LSZG AD 2.16 HELICOPTER LANDING AREA

1	**Coordinates TLOF or THR of FATO**	Coordinates TLOF or THR of FATO: TLOF 1: 47 10 55 N 007 24 48 E TLOF 2: 47 10 56 N 007 24 47 E TLOF 3: 47 10 56 N 007 24 47 E TLOF 4: 47 10 54 N 007 24 45 E TLOF 5: 47 10 58 N 007 24 59 E
	Geoid undulation	NIL
2	**TLOF and/or FATO elevation**	TLOF and/or FATO elevation m/ft: TLOF 1: 429 m / *1409 ft* TLOF 2: 429 m / *1409 ft* TLOF 3: 429 m / *1409 ft* TLOF 4: 429 m / *1408 ft* TLOF 5: 430 m / *1410 ft*
3	**TLOF and FATO area dimensions, surface, strength, marking**	TLOF and FATO area dimensions, surface strength, marking: TLOF 1, 2, 3 and 4: TLOF stand MAX OAL or OAW 14.65 m, ASPH, marked TLOF 5: TLOF stand MAX OAL or OAW 13.0 m, ASPH, marked FATO: 06/24; 400 x 23 m, ASPH 06L/24R; 380 x 18m, GRASS aiming point marked
4	**True BRG of FATO**	RWY 06: 066° RWY 24: 246°
5	**Declared distance available**	see FATO dimensions
6	**APP and FATO lighting**	NIL
7	**Remarks**	NIL

LSZG AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	Grenchen CTR / RMZ 47 13 05 N 007 32 31 E - Arc of circle centered on 47 11 32 N 007 31 52 E, Radius 1.60 NM, clockwise 47 11 13 N 007 34 10 E - 47 08 02 N 007 23 23 E - 47 07 52 N 007 21 00 E, Arc of circle centered on 47 09 18 N 007 22 02 E, Radius 1.61 NM, clockwise 47 10 03 N 007 19 58 E - 47 11 15 N 007 23 08 E - 47 13 05 N 007 32 31 E
2	**Vertical limits**	CTR: *4500 ft AMSL (1350 m)* RMZ: 2000 ft AGL (600m)
3	**Airspace classification**	CTR: D RMZ: G
4	**ATS unit call sign Language(s)**	CTR: En; En and Ge for Non-Commercial VFR traffic. RMZ: En
5	**Transition altitude**	*6000 ft AMSL*
6	**Remarks**	ACT: HX - ATIS (monitoring compulsory)

LSZG AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
TWR VDF	Grenchen Tower	120.105 MHz	HX	QDM AVBL O/R
		119.700 MHz	HX	ALTN FREQ
				Language: En; En and Ge for Non-Commercial VFR traffic.
		121.500 MHz	HX	EMERG
RMZ	Grenchen Aerodrome	120.105 MHz	HX	Language: En
		119.700 MHz	HX	ALTN FREQ
		121.500 MHz	HX	EMERG
ATIS		121.105 MHz	H24	Phone: +41 (0) 32 396 96 33
GND	Grenchen Ground	121.805 MHz	HX	CTR active only Language: En; En and Ge for Non-Commercial VFR traffic.

LSZG 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
NIL						

LSZG AD 2.20 LOCAL AERODROME REGULATIONS

1. Local flying restrictions:

Simultaneous movements between the grass runways 06L / 24R incl. or FATO or 06R / 24L and the concrete runway and also between RWY 06R / 24L and the glider RWY are not permitted.
No simultaneous helicopter operation on H1, H2 and H3.

Blocking times for specified activities within the airport area (CTR/RMZ).

- Circuits and target landing exercises:

MON-SAT: before 0700 (0600), 1115-1245 (1015-1145), after 1900 (1800).

SUN + HOL: before 0930 (0830), 1115-1245 (1015-1145), after 1600 (1500).
Good Friday, Easter Sunday, Ascension Day, Whitsunday, Corpus Christi, Assumption, All Saints Day.

- Glider towing:

MON-SAT: before 0700 (0600), 1115-1245 (1015-1145), after 1900 (1800).

SUN + HOL: before 0930 (0830), 1115-1245 (1015-1145), after 1600 (1500), excl. glider return by townplane.
Good Friday, Easter Sunday, Whitsunday.
TRNG for glider towing prohibited on, Ascension Day, Corpus Christi, Assumption, All Saints Day

- Aerobatics with powered aircraft:

MON-FRI: before 0700 (0600), 1115-1245 (1015-1145), after 1800 (1700).

SAT: before 0800 (0700), 1115-1400 (1015-1300), after 1700 (1600).

SUN + HOL: before 1400 (1300), after 1600 (1500).
Good Friday, Easter Sunday, Whitsunday. No school and TRNG Flights: Ascension Day, Corpus Christi, Assumption, All Saints Day

- Flights for Parachute dropping operations:

MON-SAT: before 0700 (0600), 1100-1245 (1000-1145), after 1900 (1800).

SUN + HOL: before 0930 (0830), 1100-1245 (1000-1145),after 1800 (1700).
Good Friday, Easter Sunday, Whitsunday.
MAX of 6 FLT's daily permitted on Ascension Day, Corpus Christi, Assumption, All Saints Day.

Night FLTs subject to PPR. Requests to AD operator not later than 1500 (1400).
HOL with same restrictions as SUN: 1st of August.

2. Procedures applicable in the Control Zone

Arrivals:

- For IFR training FLTs, 1 APCH is granted, succeeding APCH are subject to ATC.
- Arriving ACFT shall leave the RWY only via ASPH TWY A or D, unless otherwise instructed by the TWR and may taxi without clearance up to A1 or D1.
- When instructed to vacate via B, C or N cross RWY 06L/24R and hold at B1, C1 or N1.
- Each additional movement to the parking position requires a taxi clearance from TWR/GND.
- In certain cases, final guidance will be provided by an aircraft marshaller. (REF: LSZG AD 2.24.1-1 / 2.24.2 -1).

Departures:

- For IFR FLT, the REQ for start-up clearance to Grenchen TWR, with an indication of ATIS designator, is compulsory.
- Departing ACFT shall taxi from the parking position as instructed by TWR/GND. (REF: LSZG AD 2.24.1-1 / 2.24.2 -1).
- Run-up at Holding Position.
- Single engine aircraft are considered to depart from the following intersections (TORA see LSZG AD 2.13):
  RWY 06: Intersections A and B
  RWY 24: Intersections D and C
  If a backtrack is needed (performance / noise abatement) PIC shall advise ATC at the holding point during his ready for departure message, i.e "ready for departure, request backtrack".
- ARVAN SID is not available.

3. Procedure applicable in the Radio Mandatory Zone

General
All flights:

- Apply the principle "see and avoid" in accordance with the visibility distances and proximity to clouds specified for the airspace class concerned and apply MAX IAS 140 kt.
- Crew is responsible for own separation to other traffic and obstacles in the RMZ and on the movement area.
- Check ATIS Grenchen 121.105 MHz.
- Comply with dedicated RMZ run-up positions, if applicable (REF: LSZG AD 2.24.1-3 / 2.24.2 -3).
- Make blind calls to report intentions and changes in altitude and direction. Use ATIS identifier on initial radio transmission.
- Report "begin of Downwind" / "Base" and "Final" for RWY 06(06L/R) or RWY 24(24L/R).
- Simultaneous movements are not permitted between:
  - the grass runways 06L/24R incl. FATO or 06R/24L and the concrete runway.
  - 06R/24L and the glider strip.

All IFR operations (departures and arrivals)

- Are subject to PPR. The Airport slot shall be obtained from Grenchen Airport (+41 (0)32 396 96 96). The Airport slot number shall be entered in the ICAO flight plan field 18 REMARKS.
- PIC shall state his mobile phone number in the ICAO flight plan field 18 REMARKS.
- Bern APP applies the principle "one at a time".

IFR Approaches

- Bern APP will provide RWY in use and QNH. No other flight or airport information services are provided.
- Approach clearance is provided according RWY in use only.
- Bern APP will terminate Radar Service and instruct crew to make blind calls on FREQ 120,105 MHz when the crew reports established on the inbound track, latest at ARVAN.
- Cancelling IFR after leaving Bern APP frequency is not allowed.
- Report 5 NM final RWY 24 and/or breaking for circling RWY06.
  RTF example: "HBXXX, 5NM final RWY 24 for landing" or "HBXXX, 5NM final RWY 24 for circling RWY 06".
- Missed approach shall be reported on the RMZ frequency. When leaving the RMZ the missed approach shall be reported immediately to Bern APP frequency 127.325 MHz.
  Note: CLR for re-entry into controlled airspace is implied with the approach clearance.
- All IFR APCH must either land, circle to land and vacate the RWY or fly the IFR missed approach procedure, if required (no VFR circuits, no missed approach for training).
- Report "runway vacated" on the RMZ frequency.
- Crew shall close the flight plan by calling 0800 437 837 (0800 IFR VFR).

IFR Departures

- ARVAN DEP mandatory when RMZ active.
- For ATFM-Slot inquires (e.g. Ready Message) call ZRH FMP +41 (0)43 931 69 62
- Obtain ATC Clearance by telephone-call to Bern APP (+41 (0)32 396 96 32), when ready for Departure (all checks before departure, incl. run-up, completed).
- Unless otherwise stated by BERN APP, the ATC clearance is valid for 10min; hence the aircraft must be airborne within this period. If unable to comply, the crew shall inform Bern APP by phone immediately. And when ready, obtain a new ATC clearance from Bern APP (+41 (0)32 396 96 32)
- Crews must monitor RMZ FREQ 120.105 MHz
- Report "taxiing to holding point RWY 24 or RWY 06, for IFR Departure, ARVAN SID" on RMZ FREQ 120.105 MHz (blind transmission).
- Report "(backtrack) lining-up RWY 24 or RWY 06, for IFR Departure ARVAN SID" on RMZ FREQ 120.105 MHz (blind transmission).
- Report "leaving RMZ" on RMZ FREQ 120.105 MHz (blind transmission)
- Contact Bern APP on FREQ 127.325 MHz immediately, when leaving RMZ

4. Runway lighting and visual approch slope indicator for ASPH RWY 06/24:

PTT*	RTHL	RTIL	REDL & RENL	APAPI	Intensity %	Intensity
7 times	Yes	Yes	Yes	Yes	100	LIH
5 times	Yes	No	Yes	Yes	30	LIM
3 times	Yes	No	Yes	Yes	3	LIL

*Push To Talk

5. High-visibility jacket

All persons walking in the movement area must wear a high-visibility safety jacket, which complies with the EN ISO 20471 standard, EXC accompanied passengers.

LSZG AD 2.21 NOISE ABATEMENT PROCEDURES

- avoid overflying villages
- Approach RWY 24: do not turn onto final before reaching 1.2NM to ZG100.

LSZG AD 2.22 FLIGHT PROCEDURES

Special regulations for IFR approach and departure

1. SID Description

1.1 SID RNAV

1.1.1 SID RWY 06 (see chart LSZG AD 2.24.7 - 1/3)

General:
RWY 06 - Close-In obstacles: Trees up to *1480 ft* right side of the track after departure.

	RWY 06 - RNAV (GNSS)			
	ROUTE			
DESIGNATOR	Lateral	Vertical	Contact	Remark
ARVAN 1K PDG 4.4% to *1700ft* MNM Climb gradient 4.6% to reach *5000ft* at ARVAN	Proceed on course 075° to ARVAN and hold as published.	INITIAL CLIMB CLEARANCE *5000ft*	NIL	Available RMZ active only

RNAV (GNSS) SID ARVAN 1K						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
CF	ARVAN	N	5000	-	075° (077.0°T)	-
HM	ARVAN	N	5000	- 180	255° (257.2°T)	-

	RWY 06 - RNAV (GNSS)			
	ROUTE			
DESIGNATOR	Lateral	Vertical	Contact	Remark
BIRKI 1K PDG: 6.3% to *2200ft* MNM climb gradient 10.5% up to *3800ft* to remain inside controlled airspace	Proceed via ZG601, ZG602, ZG603 to BIRKI.	INITIAL CLIMB CLEARANCE *5000ft*. Cross BIRKI at MNM *4000 ft*	NIL	NIL
FRIBOURG 1K (FRI 1K) PDG: 4.3% to *2100ft* MNM climb gradient 6.3% up to *5300ft* to remain inside controlled airspace	Proceed via ZG604, ZG605, ZG606 to FRI.	INITIAL CLIMB CLEARANCE *5000ft*. Cross ZG606 at FL080 or above	NIL	NIL
WILLISAU 1K (WIL 1K) PDG: 4.3% to *1900ft* MNM climb gradient 6.0% up to *3600ft* to remain inside controlled airspace	Proceed via ZG604 to WIL.	INITIAL CLIMB CLEARANCE *5000ft*.	NIL	NIL

RNAV (GNSS) SID BIRKI 1K						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
CF	ZG601	Y	-	-165	077° (079.3°T)	-
DF	ZG602	N	-	-	-	-
TF	ZG603	N	-	-	201° (203.0°T)	5.1
TF	BIRKI	N	+4000	-	138° (140.0°T)	2.7

RNAV (GNSS) SID FRI 1K						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
CF	ZG604	Y	-	-165	078° (079.8°T)	-
DF	ZG605	N	-	-	-	-
TF	ZG606	N	+FL080	-	209° (211.2°T)	12.5
TF	FRI	N	-	-	209° (211.1°T)	9.5

RNAV (GNSS) SID WIL 1K						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
CF	ZG604	Y	-	-165	078° (079.8°T)	-
TF	WIL	N	-	-	091° (093.4°T)	16.0

1.1.2 SID RWY 24 (see chart LSZG AD 2.24.7 - 1/5)

General:
RWY 24 - Close-In obstacles: Pole up to *1440 ft* right side of the track 250 m after THR 06.

	RWY 24 - RNAV (GNSS)			
	ROUTE			
DESIGNATOR	**Lateral**	**Vertical**	**Contact**	**Remark**
ARVAN 1W PDG 5.3% to *1900ft*	Proceed on course 246° to ZG201. Turn left (MAX IAS 140kt during turn) to ARVAN and hold as published.	INITIAL CLIMB CLEARANCE *5000ft*.	NIL	Available RMZ active only

RNAV (GNSS) SID ARVAN 1W						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
CF	ZG201	Y	-	-	246° (247.8°T)	-
DF	ARVAN	N	5000	- 140	-	-
HM	ARVAN	N	5000	- 180	255° (257.2°T)	-

DESIGNATOR	RWY 24 - RNAV (GNSS)			
	ROUTE			
	Lateral	Vertical	Contact	Remark
BIRKI 1W PDG: 5.3% to *2100ft* MNM climb gradient 7.7% up to *3500ft* to remain inside controlled airspace	Proceed via ZG201, ZG603 to BIRKI.	INITIAL CLIMB CLEARANCE *5000ft*. Cross BIRKI at MNM *4000ft*	NIL	NIL
FRIBOURG 1W (FRI 1W) PDG: 5.3% to *2100ft* MNM climb gradient 7.8% up to *3500ft* to remain inside controlled airspace	Proceed via ZG201, ZG202 to FRI	INITIAL CLIMB CLEARANCE *5000ft*. Cross ZG202 at FL080 or above	NIL	NIL
WILLISAU 1W (WIL 1W) PDG: 5.3% to *2100ft* MNM climb gradient 7.7% up to *3500ft* to remain inside controlled airspacee	Proceed via ZG201 to WIL.	INITIAL CLIMB CLEARANCE 5000ft.	NIL	NIL

(GNSS) SID BIRKI 1W						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
CF	ZG201	Y	-	-165	246° (247.8°T)	-
DF	ZG603	N	-	-	-	-
TF	BIRKI	N	+4000	-	138° (140.0°T)	2.7

RNAV (GNSS) SID FRI 1W						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
CF	ZG201	Y	-	-165	246° (247.8°T)	-
DF	ZG202	N	+FL080	-	-	-
TF	FRI	N	-	-	190° (192.0°T)	11.5

RNAV (GNSS) SID WIL 1W						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
CF	ZG201	Y	-	-165	246° (247.8°T)	-
DF	WIL	N	-	-	-	-

1.2 SID RNAV 1 RWY 06/24 - (see chart LSZG AD 2.24.7-7)

General:
Minimum MET requirements: VIS 5000 m and Ceiling 3000 ft AGL
RWY 06 - Close-In obstacles: Trees up to *1480 ft* right side of the track after departure.
RWY 24 - Close-In obstacles: Pole up to *1440 ft* right side of the track 250 m after THR 06.

DESIGNATOR	RWY 06/24 - RNAV 1			
	ROUTE			
	Lateral	Vertical	Contact	Remark
WILLISAU 2V (WIL 2V)	Maintain visual ground contact to ZG502 (north side of Catholic Church in Biberist.). From ZG502 proceed to WIL.	INITIAL CLIMB CLEARANCE 5000ft. Cross ZG502 at or above 4000ft. Cross WIL at or above 7000ft.	NIL	Do not enter glider sector when active.

RNAV 1 SID WIL 2V						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	ZG502	N	+4000	-	-	-
TF	WIL	N	+7000	-	088° (091.4°T)	14.3

1.3 SID NON RNAV RWY 06/24 - (see chart LSZG AD 2.24.7 - 9)

General:
Minimum MET requirements: VIS 5000 m and Ceiling 3000 ft AGL
RWY 06 - Close-In obstacles: Trees up to *1480 ft* right side of the track after departure.
RWY 24 - Close-In obstacles: Pole up to *1440 ft* right side of the track 250 m after THR 06.

DESIGNATOR	RWY 06/24			
	ROUTE			
	Lateral	Vertical	Contact	Remark
BIRKI 6V	Maintain visual ground contact to ZG501 (1km SW from village Büren an der Aare over the road connecting Dotzingen and Büren an der Aare villages). Intercept R012 FRI inbound. Intercept LOC IBE and proceed to BIRKI.	INITIAL CLIMB CLEARANCE *5000ft*. Cross ZG501 at MNM *4000ft*.	NIL	Do not enter glider sector when active.
FRIBOURG 9V (FRI 9V)	Maintain visual ground contact to ZG501 (1km SW from village Büren an der Aare over the road connecting Dotzingen and Büren an der Aare villages). Intercept R012 FRI inbound and proceed to FRI.	INITIAL CLIMB CLEARANCE *5000ft*. Cross ZG501 at MNM *4000ft*. Cross R012 / D11.2 FRI at MNM FL080	NIL	Do not enter glider sector when active.

1.4 Approach Procedures

1.4.1 Procedure description of RNP RWY 24 (see chart LSZG AD 2.24.10 - 1)

From WIL						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	WIL	N	+6000	-	-	-
TF	NEMAG	N	+6000	180	323° (325.3°T)	5.1
TF	ARVAN	N	+6000	-	255° (257.2°T)	4.5
TF	ZG503	Y	-	-	255° (257.3°T)	11.3
TF	ZG100	N	-	150	255° (257.1°T)	1.7
TF	ZG504	N	-	150	241° (242.5°T)	2.0
TF	ZG505	N	+4400	150	147° (148.8°T)	2.2
TF	WIL	N	+6000	-	081° (082.9°T)	20.8

1.5 VFR procedure

Refer to VFR Manual, LSZG AD INFO.

1.6 Supplementary provisions regarding VFR-flights

Refer to VFR Manual, LSZG 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

LSZG AD 2.23 ADDITIONAL INFORMATION

1. List of significant points (Terminal)

NAV point	COORD WGS84		Purpose
	LAT	LONG	
1	2		3
ZG100	N 47 10 59.4	E 007 25 05.5	SID/IAC LSZG
ZG201	N 47 09 58.3	E 007 21 44.6	SID LSZG
ZG202	N 46 57 54.5	E 007 16 53.3	SID LSZG
ZG501	N 47 07 58.2	E 007 21 14.8	SID LSZG
ZG502	N 47 11 05.0	E 007 33 26.8	SID LSZG
ZG503	N 47 11 22.2	E 007 27 31.2	IAC LSZG
ZG504	N 47 10 04.0	E 007 22 29.4	IAC LSZG
ZG505	N 47 08 12.8	E 007 24 08.2	IAC LSZG
ZG506	N 47 14 33.2	E 007 47 58.5	IAC LSZG
ZG601	N 47 11 14.9	E 007 27 15.4	SID LSZG
ZG602	N 47 07 32.4	E 007 22 56.7	SID LSZG
ZG603	N 47 02 50.9	E 007 20 02.2	SID LSZG
ZG604	N 47 11 40.9	E 007 30 52.1	SID LSZG
ZG605	N 47 05 29.3	E 007 29 59.8	SID LSZG
ZG606	N 46 54 48.0	E 007 20 33.3	SID LSZG

LSZG AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

Name		Page
Aerodrome Chart	CTR	LSZG AD 2.24.1 - 1
Aerodrome Chart	RMZ	LSZG AD 2.24.1 - 3
Aircraft Parking Chart	CTR	LSZG AD 2.24.2 - 1
Aircraft Parking Chart	RMZ	LSZG AD 2.24.2 - 3
Aerodrome Obstacle Chart - Type A - RWY 06/24		LSZG AD 2.24.4 - 1
SID RWY 06/24 RNAV		LSZG AD 2.24.7 - 1
SID RWY 06 - RNAV (GNSS)		LSZG AD 2.24.7 - 3
SID RWY 24 - RNAV (GNSS)		LSZG AD 2.24.7 - 5
SID RWY 06/24 - RNAV 1		LSZG AD 2.24.7 - 7
SID RWY 06/24 - NON RNAV		LSZG AD 2.24.7 - 9
IAC RNP RWY 24 CAT A/B		LSZG AD 2.24.10 - 1

LSZG AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

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