LSZS - SAMEDAN

LSZS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZS - SAMEDAN

LSZS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	46 32 04 N 009 53 03 E RWY midpoint
2	**Direction and distance from the CITY**	1 km E Samedan
3	**Elevation/Reference temperature**	*5602 ft AMSL* - 17.8° C
4	**MAG VAR/Annual change**	3° E (2019.5) / 0°10' eastwards
5	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Engadin Airport Plazza Aviatica 2 CH-7503 **Samedan** Phone: +41 (0) 81 851 08 51 Fax: +41 (0) 81 851 08 59 AFS: AFTN: LSZSYDYX LSZSZPZX, LSZSZTZX for PLN Email: info@engadin-airport.ch URL: http://www.engadin-airport.ch/
6	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
7	**Remarks**	Geodetic Undulation Reference for ARP: 158.7 ft

LSZS AD 2.3 OPERATIONAL HOURS

1	**AD Administration**	0700 (0600) - HRH, but not later than 1800 (1700) HRH = Day and night limits. GEN 2.7
2	**Customs and immigration**	AD OPR HR
3	**Health and sanitation**	Ambulance O/R; hospital in Samedan
4	**AIS Briefing Office**	As AD administration
5	**ATS Reporting Office (ARO)**	AD OPR HR
6	**MET Briefing Office**	AD OPR HR
7	**ATS**	AD OPR HR
8	**Fuelling**	AD OPR HR
9	**Handling**	AD OPR HR
10	**Security**	NIL
11	**De-icing**	AD OPR HR
12	**Remarks**	NIL

LSZS AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo handling facilities:**	NIL
2	**Fuel/oil types**	JET A1, AVGAS 100LL, no defuelling available
3	**Fuelling facilities/capacity**	Fuel stations: Jet A1 23 000 litres, AVGAS 20 000 litres Trucks: Jet A1 23 000 litres, 10 000 litres
4	**De-icing facilities**	NOV 01 - APR 30: De-icing assured De-icing fluids available: Type I Clariant Safewing MPI 1938 ECO “Aircraft are de-iced according to the requirements of SAE AS6285.” Clean Aircraft Concept as defined in ICAO Doc 9640 is applied; Airport Authority can intervene in case of non-adherence.
5	**Hangar space available for visiting aircraft**	Limited, by prior arrangement only Contact Engadin Airport AG: Phone: +41 (0) 81 851 08 51 Fax: +41 (0) 81 851 08 59 Email: info@engadin-airport.ch URL: http://www.engadin-airport.ch/
6	**Repair facilities for visiting aircraft**	Not AVBL
7	**Remarks**	Ground handling agent for general aviation Engadin Airport AG Phone: +41 (0) 81 851 08 48 Fax: +41 (0) 81 851 08 50 Email: handling@engadin-airport.ch URL: http://www.engadin-airport.ch/

LSZS AD 2.5 PASSENGER FACILITIES

1	**Hotels**	Samedan, St. Moritz, Engadin
2	**Restaurants**	At AD, Samedan and VCY
3	**Transportation**	Taxis at AD
4	**Medical facilities**	First aid at AD, Ambulance O/R; Hospital in Samedan
5	**Bank and Post Office**	Samedan, St. Moritz
6	**Tourist Office**	Samedan Phone: +41 (0) 81 851 00 60 Fax: +41 (0) 81 851 00 66 St. Moritz Phone: +41 (0) 81 837 33 33 Fax: +41 (0) 81 837 33 77
7	**Remarks**	NIL

LSZS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 2 Category 3 - 4: O/R FLT 3 HR before ETA/ETD Category 5 - 6: O/R
2	**Rescue equipment**	2 fire engines
3	**Capability for removal of disabled aircraft**	NIL
4	**Remarks**	NIL

LSZS AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	3 wheel loaders, 4 snow ploughs, 2 snow sweeper, 1 de-icing vehicle
2	**Clearance priorities**	RWY / Apron / TWY
3	**Remarks**	Check of ACT SNOWTAM during winter period is essential

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

1	**Apron surface and strength**	CONC and ASPH / PCN 30 F/C/X/U
2	**Taxiway width, surface and strength**	10 m / CONC and ASPH / PCN 30 F/C/X/U
3	**ACL location and elevation**	NIL
4	**VOR/INS checkpoints**	NIL
5	**Remarks**	NIL

LSZS 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**	NIL
2	**RWY/TWY markings and LGT**	RCL and THR marked, not lighted. Holding positions RWY 03/21, intermediate holding positions and TWY centre lines marked, not lighted.
3	**Stop bars**	NIL
4	**Remarks**	NIL

LSZS 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 03 (1)	Bridge	*5584*	46 32 32 N 009 53 21 E	Anemometer LGTD	*5627*	46 31 35 N 009 52 46 E	B0743/06
AOC 03 (2)	Pole	*5588*	46 32 33 N 009 53 25 E	Anemometer marked/LGTD	*5611*	46 32 29 N 009 53 17 E	B0914/07
AOC 03 (3)	Pole	*5589*	46 32 33 N 009 53 28 E	Aerial railway	306 AGL	46 30 29 N 009 49 06 E 46 30 20 N 009 47 16 E	B0339/02
AOC 03 (4)	Pole	*5597*	46 32 32 N 009 53 30 E	Power line	70 m AGL	46 31 11 N 009 50 54 E 46 31 08 N 009 50 54 E	B0100/06
AOC 03 (5)	Tree/Trees	*5598*	46 32 39 N 009 53 35 E	Antenna	*5655*	46 31 48 N 009 52 43 E	B1213/17
AOC 03 (6)	Tree/Trees	*5607*	46 32 39 N 009 53 36 E				
AOC 03 (7)	Tree/Trees	*5726*	46 33 54 N 009 54 10 E				
AOC 03 (8)	Tree/Trees	*6026*	46 34 07 N 009 54 21 E				
AOC 03 (9)	Power line	*6128*	46 34 19 N 009 54 36 E				
AOC 03 (10)	Tree/Trees	*6252*	46 35 09 N 009 55 37 E				
AOC 03 (11)	Tree/Trees	*6377*	46 35 10 N 009 55 39 E				

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
AOC 21 (1)	Torch	*5616*	46 31 33 N 009 52 36 E				
AOC 21 (2)	Pole	*5638*	46 31 28 N 009 52 27 E				
AOC 21 (3)	Pole	*5641*	46 31 27 N 009 52 28 E				
AOC 21 (4)	Pole	*5648*	46 31 26 N 009 52 28 E				
AOC 21 (5)	Tree/Trees	*5667*	46 31 12 N 009 52 20 E				
AOC 21 (6)	Tree/Trees	*5707*	46 31 11 N 009 52 21 E				
AOC 21 (7)	Tree/Trees	*5712*	46 31 10 N 009 52 19 E				
AOC 21 (8)	Tree/Trees	*5734*	46 31 11 N 009 52 17 E				
AOC 21 (9)	Tree/Trees	*5746*	46 31 01 N 009 52 19 E				
AOC 21 (10)	Tree/Trees	*5862*	46 30 58 N 009 52 18 E				
AOC 21 (11)	Tree/Trees	*5906*	46 30 29 N 009 51 53 E				
AOC 21 (12)	Tree/Trees	*6374*	46 30 00 N 009 51 33 E				
AOC 21 (13)	Tree/Trees	*6461*	46 29 45 N 009 49 59 E				
AOC 21 (14)	Tree/Trees	*6628*	46 29 41 N 009 49 52 E				
AOC 21 (15)	Cable railway	*6846*	46 29 30 N 009 49 30 E				
Refer also to AOC 03, LSZS AD 2.24.4 - 1 AOC 21, LSZS AD 2.24.4 - 3							

LSZS 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**	Trend; issuance: HH+20, HH+50
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 FCST charts AVBL worldwide
8	**Supplementary equipment available for providing information**	do.
9	**ATS units provided with information**	Samedan TWR
10	**Additional information (limitation of service, etc.)**	Phone: Weather briefing: 0900 162 737 (Ge); accessible within Switzerland

LSZS 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
03	029° GEO 026° MAG	1840 x 40	PCN 30 F/C/X/U	46 31 37.28N 009 52 41.13E	*5602 ft*	refer to: LSZS AOC RWY 03/21
21	209° GEO 206° MAG			46 32 26.27N 009 53 20.85E	*5573 ft*	

Designations RWY NR	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
1	8	9	10	11	12
03	NIL	NIL	1960 x 80	NIL	Non-instrument RWY FCT: 0.96 / *0.97*
21					Non-instrument RWY FCT: 0.98 / *0.98*

LSZS AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
03	1840 m	1840 m	1840 m	1840 m	NIL
21	1840 m	1840 m	1840 m	1730 m	NIL

LSZS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (m) colour	Remarks
1	2	3	4	5	6	7	8	9	10
03	NIL	NIL	PAPI 4.49°, R, (13.67 m)	NIL	NIL	NIL	NIL	NIL	1)
21	NIL	NIL	PAPI 4.4°, L, (8.27 m)	NIL	NIL	NIL	NIL	NIL	2)

1) PAPI 03 light beam offset 5° west from runway axis. ICAO obstacle protection surface penetrated by a hill between ZS705 and THR 03.
2) PAPI 21 light beam offset 5° east from runway axis.

LSZS 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**	NIL
4	**Secondary power supply/switch-over time**	AVBL / < 1sec
5	**Remarks**	NIL

LSZS AD 2.16 HELICOPTER LANDING AREA

1	**Coordinates TLOF or THR of FATO**	FATO (aiming point): 46 31 52.98 N 009 52 53.88 E
2	**TLOF and/or FATO elevation M/FT**	*5600 ft / 1707 m*
3	**TLOF and FATO area dimensions, surface, strength, marking**	**HEL with overall LEN <13 m or an overall WID <11 m** TLOF: Whole year 5 HEL CONC/ASPH, 5000 kg, white marked circles with a diameter of 6.5 m; Winter only: 7 additional HEL stands, SNOW, 5000 kg, blue marked circles with a diameter of 6.5 m. FATO: 40 x 40 m, ASPH, 5000 kg, aiming point marked on RWY 03/21. **HEL with overall LEN >13 m or an overall WID >11 m** TLOF: Parking on main apron with marshaller FATO: 1840 x 40 m, ASPH, 5000 kg, aiming point marked on RWY 03/21.
4	**True and MAG BRG of FATO**	029°/026° - 209°/206°
5	**Declared distance available**	REF: VFR Manual Samedan HEL AD INFO, § 10
6	**APP and FATO lighting**	NIL
7	**Remarks**	REF: VFR Manual Samedan HEL AD INFO 7 HEL with overall LEN >13 m or an overall WID >11 m use VAC ARRIVAL and VAC DEPARTURE for operations on paved RWY. PPR TEL +41 (0) 81 851 08 51 PPR FAX +41 (0) 81 851 08 59 Email: handling@engadin-airport.ch - contact AFISO (AD Flight Information Service Officer) for start-up - report crossing of IFR APCH and DEP route to AFIS

LSZS AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	**FIZ SAMEDAN** 46 34 46 N / 009 53 01 E - Arc of circle clockwise with radius 2.70 NM, centred on 46 32 04 N / 009 53 02 E - 46 33 23 N / 009 56 27 E - 46 32 35 N / 009 55 59 E - 46 29 23 N / 009 52 36 E - Arc of circle clockwise with radius 2.70 NM, centred on 46 32 04 N / 009 53 02 E - 46 31 15 N / 009 49 18 E - 46 34 46 N / 009 53 01 E
2	**Vertical limits**	*10'000 ft AMSL (3050 m)*
3	**Airspace classification**	G (at and below 2000 ft AGL); E (above 2000 ft AGL)
4	**ATS unit call sign Language(s)**	AFIS: En
5	**Transition altitude**	*16'000 ft AMSL*
6	**Remarks**	NIL

LSZS AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
AFIS	Samedan Info	135.325 MHz	HO	NIL
ATIS		136.600 MHz	HO	Phone Service +41 (0) 81 834 93 24
CLR DEL	Samedan Delivery	121.880 MHz	HX	Start-up clearance. Check status on ATIS

LSZS 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						

LSZS AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Local flying restrictions and remarks

Aerodrome in mountainous area: familiarisation mandatory. Pilots must be qualified to operate at LSZS and fulfill the requirements mentioned in “Betriebsreglement” Annex 5 (See http://www.engadin-airport.ch/Betriebsreglement.70.0.html)

AD CLSD for arriving fix wing ACFT with APCH Category B and higher if VIS BLW 5 KM or ceiling BLW 2200 ft AGL.

15 OCT - 15 APR It is essential to enquire about RWY conditions (SNOWTAM, ATIS or TEL).

Limited aprons
08 DEC - 14 APR
Limited aprons during winter period for general aviation ACFT up to 4 tonnes MTOM:
Apron is mostly reserved for ACFT of commercial air TFC, as well as for general aviation ACFT over 4 tonnes MTOM. ACFT up to 4 tonnes MTOM will be placed on the limited AVBL frozen SN PRKG. Ground time more than a quick turnaround cannot be guaranteed. For longer ground time, it is urgently recommended to enquire about expected PRKG possibilities with Samedan AP Authority one day before planned FLT.

Corresponding enquiries have to contain:
- Applicant
- Date of ARR and DEP
- Call sign
- ACFT type
- ETA LSZS UTC
- EOBT LSZS UTC

and shall be addressed to:

Email: handling@engadin-airport.ch
Phone: +41 (0) 81 851 08 51

Modifications and cancellations of already coordinated FLT shall be immediately notified.

CTN GLD ACT: **MAY - OCT**
CTN: Cars moving W of RWY 03/21.

Circuit and local flights of less than 20 MIN duration, ground running of engines, helicopter test and training flights daily between **1100 - 1300 (1000 - 1200)** and on SUN/HOL are prohibited.

LSZS AD 2.21 NOISE ABATEMENT PROCEDURES

1. Jet and turbo-prop ACFT

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

APU shall be started 30 MIN before EOBT, at the earliest, and shall be shut off 15 MIN after the RCH parking PSN at the latest.

2. Propeller aeroplanes

Aircraft of the noise category A (FAL 3-1 APP B1-B7) are generally not allowed. Exceptions are subject to authorization.

LSZS AD 2.22 FLIGHT PROCEDURES

1. Special regulations for IFR approach and departure

1.1 IFR Procedures General

The use of IFR APCH or DEP procedures in LSZS is limited to pilots, operators and ACFT fulfilling the AP Qualifications in accordance with § 1.4. and the specific requirements below.
Availability of the IFR Procedures depending on the military activity in the temporary reserved areas (TRA) REF: ENR 5.2
The non-availability of the ATS Route can be checked under **"European AUP/UUP"** on
URL: https://www.public.nm.eurocontrol.int/PUBPORTAL/

The availability of the IFR Procedures can also be suspended by good weather conditions due to high traffic density.
Check NOTAM about IFR-status and for further information the pilot briefing on
URL: http://www.engadin-airport.ch/Briefings.417.0.html

The published altitudes of the IFR procedures are not corrected for any pressure and temperature errors.
The flight crew is responsible for these corrections. The altimeter error may be significant in extremely cold temperatures and at high altitudes.
The following table indicates the minimum correction value to be applied to the flight altitude in relation to the aerodrome temperature.

Aerodrome Temperature LSZS							
Altitude ft	**0° C**	**-5° C**	**-10° C**	**-15° C**	**-20° C**	**-25° C**	**-30° C**
16000	+153 ft	+348 ft	+543 ft	+738 ft	+933 ft	+1128 ft	+1323 ft
14000	+122 ft	+279 ft	+435 ft	+591 ft	+748 ft	+904 ft	+1060 ft
13000	+107 ft	+245 ft	+382 ft	+519 ft	+656 ft	+793 ft	+931 ft
12700	+103 ft	+234 ft	+366 ft	+497 ft	+629 ft	+760 ft	+892 ft
12400	+99 ft	+224 ft	+350 ft	+476 ft	+602 ft	+727 ft	+853 ft
11800	+90 ft	+204 ft	+319 ft	+433 ft	+547 ft	+662 ft	+776 ft
11400	+84 ft	+191 ft	+298 ft	+404 ft	+511 ft	+618 ft	+725 ft
10600	+72 ft	+164 ft	+256 ft	+348 ft	+440 ft	+531 ft	+623 ft
9500	+56 ft	+127 ft	+199 ft	+270 ft	+342 ft	+413 ft	+484 ft
8680	+44 ft	+100 ft	+157 ft	+213 ft	+269 ft	+325 ft	+381 ft

The IFR procedures are partly within airspace class E and G. Watch out for VFR traffic.

1.2 IFR Departures

Any departing ACFT must comply with the relevant procedures published on the SID charts. Due to high terrain, any non-adherence to the published PDG will result in an infringement of the minimum obstacle clearance.
Contingency procedures (e.g. for OEI operations) must be provided by the operator and must be available to the pilot.

(see chart LSZS AD 2.24.7 - 1)

DESIGNATOR	RWY 03 - HIGH PERFORMANCE RNAV 1			
	ROUTE			
	Lateral	Vertical	Contact	Remark
RONAG 1E PDG 16.6% to *10200ft*	Proceed via ZS500, ZS711, ZS710 to RONAG. Enter the RONAG holding pattern. MAX IAS 210 kt to RONAG.	Climb to 16000ft. Cross RONAG at 14000ft or above. Shuttle climb as required to MEA.	When instructed contact Zurich DELTA 119.225	NIL

Close-in obstacles right of track up to *5715 ft* shortly after end of RWY 03.

(see chart LSZS AD 2.24.7 - 1)

RNAV 1 SID RONAG 1E						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	DER03	Y	-	-	026° (029.2°T)	-
TF	ZS500	Y	-	-	030° (033.3°T)	5.9
DF	ZS711	N	-	-	-	-
TF	ZS710	N	-	-	041° (044.4°T)	5.4
TF	RONAG	N	+14000	210	053° (056.3°T)	5.3

(see chart LSZS AD 2.24.7 - 3)

DESIGNATOR	RWY 03 - HIGH PERFORMANCE RNAV 1 VISUAL			
	ROUTE			
	Lateral	Vertical	Contact	Remark
RONAG 1V Set your VISUAL climb rate as required to avoid obstacles, but not below 10% ~ 610 ft/NM. At *10000 ft* continue climb to *10500 ft* with MNM PDG of 10%.	Proceed via ZS501, ZS711, ZS710 to RONAG. Enter the RONAG holding pattern. MAX IAS 180 kt to ZS711, MAX IAS 210 kt to RONAG.	Climb to 16000ft. Cross RONAG at 14000ft or above. Shuttle climb as required to MEA.	When instructed contact Zurich DELTA 119.225	Maintain visual ground contact to 10000ft.

Close-in obstacles right of track up to *5715 ft* shortly after end of RWY 03.

(see chart LSZS AD 2.24.7 - 3)

RNAV 1 SID RONAG 1V						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	DER03	Y	-	-	026° (029.2°T)	-
TF	ZS501	Y	-	-	030° (033.3°T)	2.4
TF	ZS711	N	-	180	043° (046.2°T)	7.9
TF	ZS710	N	-	-	041° (044.4°T)	5.4
TF	RONAG	N	+14000	210	053° (056.3°T)	5.3

(see chart LSZS AD 2.24.7 - 5)

DESIGNATOR	RWY 21 - HIGH PERFORMANCE RNAV 1			
	ROUTE			
	Lateral	Vertical	Contact	Remark
PELAD 1W PDG 15.0% to *10700ft*	Proceed via ZS510, ZS511 to PELAD. Enter the PELAD holding pattern. MAX IAS 210 kt to PELAD.	Climb to 16000ft. Cross PELAD at 16000ft or above.	When instructed contact Zurich DELTA 119.225	NIL

Close-in obstacles right of track up to *5630 ft* shortly after end of RWY 21.

(see chart LSZS AD 2.24.7 - 5)

RNAV 1 SID PELAD 1W						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	DER21	Y	-	-	206° (209.2°T)	-
TF	ZS510	Y	-	-	216° (219.1°T)	10.3
DF	ZS511	N	-	-	-	-
TF	PELAD	N	+16000	210	036° (039.0°T)	10.3

(see chart LSZS AD 2.24.7 - 7)

DESIGNATOR	RWY 21 - HIGH PERFORMANCE RNAV 1 VISUAL			
	ROUTE			
	Lateral	Vertical	Contact	Remark
PELAD 1V Set your VISUAL climb rate as required to avoid obstacles, but not below 10% ~ 610 ft/NM. At *10600 ft* continue climb to *11500ft* with MNM PDG of 10%.	Proceed via ZS510, ZS511 to PELAD. Enter the PELAD holding pattern. MAX IAS 210 kt to PELAD.	Climb to 16000ft. Cross PELAD at 16000ft or above.	When instructed contact Zurich DELTA 119.225	Maintain visual ground contact to 10600ft.

Close-in obstacles right of track up to *5630 ft* shortly after end of RWY 21.

(see chart LSZS AD 2.24.7 - 7)

RNAV 1 SID PELAD 1V						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	DER21	Y	-	-	206° (209.2°T)	-
TF	ZS510	Y	-	-	216° (219.1°T)	10.3
DF	ZS511	N	-	-	-	-
TF	PELAD	N	+16000	210	036° (039.0°T)	10.3

1.3 IFR Approach Procedures

VISUAL APCH with RNP guidance RWY 03:

The final approach track is 9.1 degrees offset to the left of the RWY CL, and must be flown in visual conditions due to high terrain in the region of ZS702 (FAF).

RNP RWY 21:

Due to close proximity of high terrain in the final and missed approach phase, a strict adherence to the published procedures is required.

The final approach is based on a continuous descent (CDFA principle). When reaching the OCA(H) and no visual contact to the landing RWY is established and can be maintained, start the missed approach climb without delay, proceed to the MAPt and follow the missed approach procedure. Obstacle clearance is calculated with RNP 0.3 until MAPt.

Level flight to MAPt at OCA(H) prohibited.

VISUAL APCH with RNP guidance RWY 03 and RNP RWY 21:

The flight crew is required to perform a position report at the FAF.

No NOTAM RAIM service will be provided. It is the operator's responsibility to check RAIM availability. Due to the high terrain, a mask angle of 10 DEG should be chosen.
EUROCONTROL provides the AUGUR tool for checking RAIM. It is AVBL from the following link: https://augur.eurocontrol.int

Communication Failure Procedure
In case of COM failure prior to IAF without approach clearance received:
- Set transponder on 7600.
- Maintain last assigned and acknowledged flight level.
- Enter PELAD/RONAG holding.
- Hold for 20 minutes, then start the approach.

In case of COM failure after having passed the IAF:
- Set transponder on 7600.
- Continue approach
- In case of missed approach perform maximum two holding patterns. If radio contact is not re-established, proceed to alternate aerodrome.

(see chart LSZS AD 2.24.7.10 - 1)

VISUAL APCH with RNP guidance RWY 03						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	PELAD	N	+16000	240	-	-
TF	ZS700	N	+13000	-	268° (271.0°T)	11.3
TF	ZS701	N	+12400	160	160° (162.6°T)	17.3
TF	ZS702	N	+11800	-	065° (068.2°T)	5.0
TF	ZS705	Y	-	-	035° (038.3°T)	10.9
TF	ZS706	N	-	-	030° (033.5°T)	4.9
TF	RONAG	N	+14000	210	045° (048.0°T)	19.0

(see chart LSZS AD 2.24.7.10 - 3)

RNP RWY 21						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	RONAG	N	+14000	210	-	-
TF	ZS710	N	+13000	160	233° (236.4°T)	5.3
TF	ZS712	Y	-	-	221° (224.4°T)	15.0
TF	ZS702	N	+12700	-	214° (216.9°T)	14.6
TF	ZS713	N	-	-	304° (306.7°T)	7.4
TF	PELAD	N	+16000	240	034° (036.6°T)	12.6

CTN: Step down fix at 9.9 NM to ZS712 not to be coded as WPT.

1.4 Aircraft, Airport and Pilot Qualification

To operate at Samedan under IFR, the following airport requirements must be fulfilled:

a. For piston engine aircraft and multiple IFR APCH (training) PPR required. ppr.smv@engadin-airport.ch
b. Operator's contingency procedures (if required by the type of FLT operation) must be calculated and available.
c. The pilot in command must hold a valid pilot qualification for the applicable type of operation and flight procedures.
d. LSZS briefing not older than 24 months.

1.5 Minima for IFR Departures (TKOF Minima)

RWY	SID	VIS (m) / Ceiling (ft AGL)	RMK
03	RONAG 1E	2000 / ---	Ceiling means BKN or OVC. VMC must be maintained up to the ALT stated in the table.
	RONAG 1V	5000 / 4400	
21	PELAD 1W	2000 / ---	
	PELAD 1V	5000 / 5100	

LSZS AD 2.23 ADDITIONAL INFORMATION

High Visibility Jackets and Crew ID badge:
All pilots walking on the AP movement area must wear a high-visibility jacket which complies with the EN 471 standard class 2 or 3.
Persons not wearing a high-visibility jacket have to use the AP shuttle or ask the ground staff or ground handling agents for assistance.
All crew members must ensure their ID badge is clearly visible, above the waist and shall produce the Crew ID badge upon request of the control agents of the AP.

1. List of significant points (Terminal)

NAV point	COORD WGS84		Purpose
	LAT	LONG	
1	2		3
DER03	N 46 32 29.4	E 009 53 23.4	SID LSZS
DER21	N 46 31 37.3	E 009 52 41.1	SID LSZS
ZS500	N 46 37 23.3	E 009 58 03.2	SID LSZS
ZS501	N 46 34 28.6	E 009 55 16.7	SID LSZS
ZS510	N 46 23 35.3	E 009 43 15.1	SID LSZS
ZS511	N 46 27 55.9	E 009 34 08.3	SID LSZS
ZS700	N 46 36 06.5	E 009 27 06.2	IAC LSZS
ZS701	N 46 19 35.4	E 009 34 33.4	IAC LSZS
ZS702	N 46 21 26.7	E 009 41 15.5	IAC LSZS
ZS705	N 46 30 00.0	E 009 51 02.4	IAC LSZS
ZS706	N 46 34 04.0	E 009 54 56.4	IAC LSZS
ZS710	N 46 43 49.1	E 010 09 06.0	IAC LSZS, SID LSZS
ZS711	N 46 39 57.6	E 010 03 36.4	SID LSZS
ZS712	N 46 33 05.8	E 009 53 53.0	IAC LSZS
ZS713	N 46 25 52.1	E 009 32 40.7	IAC LSZS

LSZS AD 2.24 CHARTS RELATED TO AN AERODROME

Name	Page
Aerodrome Chart	LSZS AD 2.24.1 - 1
Aerodrome Obstacle Chart - Type A - RWY 03	LSZS AD 2.24.4 - 1
Aerodrome Obstacle Chart - Type A - RWY 21	LSZS AD 2.24.4 - 3
SID RWY 03 - RNAV 1 HIGH PERFORMANCE	LSZS AD 2.24.7 - 1
SID RWY 03 - RNAV 1 HIGH PERFORMANCE VISUAL	LSZS AD 2.24.7 - 3
SID RWY 21 - RNAV 1 HIGH PERFORMANCE	LSZS AD 2.24.7 - 5
SID RWY 21 - RNAV 1 HIGH PERFORMANCE VISUAL	LSZS AD 2.24.7 - 7
IAC VISUAL APCH with RNP Guidance RWY 03	LSZS AD 2.24.10 - 1
IAC RNP RWY 21	LSZS AD 2.24.10 - 3
Aerodrome VFR Area Chart for Y and Z ATC FPL	LSZS AD 2.24.11 - 1
Aerodrome Visual Approach Chart	LSZS AD 2.24.12 - 1