

AD 2 AERODROMES

ESCF 2.1 AERODROME LOCATION INDICATOR AND NAME

ESCF – LINKÖPING/MALMEN

ESCF 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	582346N 0153119E RWY 01/19 centre point
2.	Direction and distance from (city)	W 3 NM from Linköping
3.	Elevation/Reference temperature	309 ft/+19.0°C
4.	Geoid undulation at AD ELEV PSN	96 ft
5.	MAG VAR/Annual change	6° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	MIL AD: FM/Swedish Armed Forces Helikopterflottiljen SE-581 98 Linköping TEL: +46 (0)13 28 30 00 FAX: +46 (0)13 28 32 00 E-mail: flygplatsledning-hkpflj@mil.se AFS: ESCFZTZX
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 2C
8.	Remarks	72 HRS PPR for CIV traffic. 72 HRS PPR for all foreign military aircrafts and helicopters. Diplomatic clearance required. All PPR requests shall be made during hours of AD administration. FAX +46 (0)13 28 36 83 or E-mail: flygplatsledning-hkpflj@mil.se

ESCF 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0630-1530 (0530-1430) As ATS
2.	Customs and immigration	-
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	As ATS
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	MON-THU 0630-1515 (0530-1415) FRI and day before HOL 0630-1400 (0530-1300) HOL CLSD During 15 SEP - 1 APR also THU 1515-2100 (1415-2000)
8.	Fuelling	As ATS
9.	Handling	O/R
10.	Security	O/R
11.	De-Icing	O/R
12.	Remarks	-

ESCF 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	O/R
2.	Fuel/oil types	Fuel - Oil -
3.	Fuelling facilities/discharge capacity	-
4.	De-icing facilities	Type I and II, mobile unit. Available O/R.
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	-
7.	Remarks	De-icing is committed to apron 7. Fuel/oil types etc according to Swedish military standard which differs from normally used by civil aviation. Jet A1 equivalent NATO F35.

ESCF 2.5 PASSENGER FACILITIES

1.	Hotels	In Linköping
2.	Restaurants	In Linköping
3.	Transportation	Buses, taxis
4.	Medical facilities	In Linköping. First aid at AD O/R during HR of ATS
5.	Bank and Post Office	In Linköping
6.	Tourist Office	In Linköping
7.	Remarks	-

ESCF 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 6. CAT 8 O/R
2.	Rescue equipment	MIL equipment
3.	Capability for removal of disabled aircraft	Available, MIL equipment
4.	Remarks	-

ESCF 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	MIL equipment, snowploughs, sweepers, blowers
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY de-iced with UREA

ESCF 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron 3 CONC PCN 15 R/B/X/T Apron 7 CONC PCN 15 R/B/X/T
2.	Taxiway width, surface and strength	TWY 08/26 37 m ASPH PCN 24 F/B/X/T TWY C 15 m ASPH PCN 15 F/B/X/T TWY E 10 m ASPH PCN 15 F/B/X/T TWY F 10 m ASPH PCN 15 F/B/X/T TWY K 8 m ASPH PCN 15 F/B/X/T TWY Y 10 m ASPH PCN 15 F/B/X/T Narrows to 8 m S of apron 6 TWY Z 8 m ASPH PCN 15 F/B/X/T
3.	ACL, location and elevation	See ESCF 2-1
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

ESCF 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of ACFT stands	Taxi guide lines and signs. Marshalling available.
2.	RWY and TWY markings and LGT	RWY 01/19: Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL 08/26: Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL TWY 08/26: CL day marked C: CL, HLDG day marked. Edge lights. RGL. E: CL, HLDG day marked. Edge lights. RGL. F: CL, HLDG day marked. Edge lights. RGL. K: CL, HLDG day marked. Edge lights. RGL. Y: CL, HLDG day marked. Edge lights. RGL. Z: CL day marked. Edge lights.
3.	Stop bars	-
4.	Remarks	RWY 01/19: MIL configuration RWY 08/26: MIL configuration

ESCF 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESCF 2.11 METEOROLOGICAL INFORMATION PROVIDED

- | | |
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| 1. Associated MET Office | STOCKHOLM/Arlanda |
| 2. Hours of service
MET Office outside hours | H24 |
| 3. Office responsible for TAF preparation
Periods of validity, interval of issuance | CIV TAF not produced |
| 4. Type of landing forecast
Interval of issuance | Not issued |
| 5. Briefing/consultation provided | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 6. Flight documentation
Language(s) used | TAF, METAR, SIGMET, Upper air winds
Swedish/English |
| 7. Charts and other information available for
briefing or consultation | SWC, WC, Nordic SIGWX Chart, Low level forecast |
| 8. Supplementary equipment available for
providing information | - |
| 9. ATS units provided with information | ÖSTGÖTA APP
LINKÖPING/Malmen TWR |
| 10. Additional information (limitation of service,
etc.) | Above info applicable to civil operations. Military meteorological
services O/R |

ESCF 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
01	018.32° GEO 012° MAG	2214 x 35	PCN 56 F/B/X/T ASPH	582312.25N 0153057.58E GUND 96.2 ft	THR 250.7 ft
19	198.33° GEO 192° MAG	2214 x 35	PCN 56 F/B/X/T ASPH	582420.18N 0153140.44E GUND 96.0 ft	THR 295.4 ft
08	083.22° GEO 077° MAG	1870 x 37	PCN 48 F/B/X/T ASPH	582405.88N 0153056.13E GUND 96 ft	THR 309 ft
26	263.24° GEO 257° MAG	1870 x 37	PCN 48 F/B/X/T ASPH	582413.01N 0153250.47E GUND 96 ft	THR 278 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
01 See ESCF RWY 01/19 AOC	190 x 35	420 x 150	2334 x 150	-	MIL marker boards 600 m from RWY end. RWY 01/19 rilled. Arresting net beyond THR 19.
19 See ESCF RWY 01/19 AOC	110 x 35	600 x 150	2334 x 150	-	MIL marker boards 600 m from RWY end. RWY 01/19 rilled. Arresting net beyond THR 01.
08 See ESCF RWY 08/26 AOC	40 x 37	-	1930 x 150	-	-
26 See ESCF RWY 08/26 AOC	40 x 37	-	1930 x 150	-	-

ESCF 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
01	2214	2634	2404	2214	-
19	2214	2814	2324	2214	-
08	1870	1870	1910	1870	-
26	1870	1870	1910	1870	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS						
RWY	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1		2	3	4	5	6
19	RWY CROSSING	1851	2451	1961	-	-

ESCF 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
01	Calvert 750 m LIL/LIH	Green	PAPI Left/3.00° (52.5 ft)	-	-	2214/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
19	Barrette CL CAT I 735 m LIL/LIH	Green	PAPI Left/3.20° (52.5 ft)	-	-	2214/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
08	-	Green	-	-	-	1870/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
26	-	Green	-	-	-	1870/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks: RWY 01: EFAS
RWY 19: EFAS

ESCF 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1. ABN/IBN location, characteristics and hours of operation -
2. LDI location and LGT
Anemometer location and LGT Windssocks left side THR 01 and 19. At apron.
200 m NE THR 01, 150 m SE RWY cross
3. TWY edge and centre line lighting Edge: TWY C, E, F, K, Y, Z
CL: -
4. Secondary power supply/switch-over time Available/Without interruption
5. Remarks -

ESCF 2.16 HELICOPTER LANDING AREA

RWYs

ESCF 2.17 ATS AIRSPACE

1.	Designation and lateral limits	MALMEN CTR	582544N 0151859E - 581941N 0153719E - 581341N 0152949E - 581527N 0152024E - 582544N 0151859E
2.	Vertical limits	MALMEN CTR	<u>1600 ft AMSL</u> GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	MALMEN TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR. During the operational hours of MALMEN TWR. SAAB Sector b) is delegated to MALMEN TWR. See ESSL 2.17.	

ESCF 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	MALMEN TOWER	129.800	HO	Primary channel VDF
		121.500	HO	VDF
		121.050	HX	-
		132.600	HO	VDF
		121.850	HX	Also de-icing
APP	ÖSTGÖTA APPROACH	132.955	HO	-
		135.850	HX	-
		126.400	HX	VDF
		127.350	HX	-
PAR	MALMEN PRECISION	125.200	HX	MIL Operations only.

ESCF 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 01 ILS CAT I (6° E 2020)	CFE	108.35 MHz	HO	582433.7N 0153149.0E		440 m beyond THR 19 ILS Class I/D/2
GP		333.95 MHz	HO	582319.6N 0153109.3E		Angle 3.0° RDH 50.0 ft 275 m past THR 01 right side
L 01	LCF	285 kHz	H24	581917.3N (*) 0152832.2E		Range 15 NM
LOC 19 ILS CAT I (6° E 2020)	CFB	110.10 MHz	HO	582241.2N 0153038.0E		1013 m beyond THR 01 ILS Class I/D/2
GP		334.40 MHz	HO	582411.5N 0153127.8E		Angle 3.2° RDH 55.8 ft 320 m past THR 19 right side
L 19	SC	300 kHz	H24	582557.4N 0153308.7E		Range 15 NM
DME	CFB	110.10 MHz	H24	582411.4N 0153128.0E	311 ft	At ILS GP DME channel 38X
DME	CFE	108.35 MHz	H24	582319.6N 0153109.2E	272 ft	At ILS GP DME channel 20Y

ESCF 2.20 LOKALA TRAFIKFÖRESKRIFTER

- När ATS har stängt bör luftfartyg blindsända positionsrapport och avsikt på kanal 118.805 vid användande av manöverområdet samt före angörande av och under flygning i trafikvarv.
- Högervarv tillämpas när RWY 08 och 19 är i användning.
- Omfattande skolverksamhet med militära jetflygplan och helikoptrar utanför Malmen och SAAB CTR.

LOCAL TRAFFIC REGULATIONS

- When ATS is closed position reports and intentions should be transmitted on channel 118.805 before using the manoeuvring area or entering the traffic circuit.
- Right hand traffic circuit when RWY 08 and 19 are in use.
- Intensive training activities with military jet aeroplanes and helicopters outside Malmen and SAAB CTR.

ESCF 2.21 MINSKNING AV BULLERSTÖRNING

Bullerkänsliga områden: Jägarvallen (SE TWR), Linköping stad, Ljungsbro, Malmslätt och Vikingstad.

NOISE ABATEMENT PROCEDURES

Noise sensitive areas: Jägarvallen (SE TWR), City of Linköping, Ljungsbro, Malmslätt and Vikingstad.

ESCF 2.22 FLYGPROCEDURER

- Ankommande IFR-trafik inom Östgöta TMA och Malmen CTR
Inflygningsförfaranden
Se sid ESCF 5-1 till ESCF 5-4.
Väntlägen är upprättade enligt sid ESSP 4-1.
- Avgående IFR-trafik inom Östgöta TMA och Malmen CTR

FLIGHT PROCEDURES

- Inbound IFR traffic within Östgöta TMA and Malmen CTR
Approach procedures
See pages ESCF 5-1 through ESCF 5-4
Holding patterns are established in accordance with page ESSP 4-1.
- Outbound IFR traffic within Östgöta TMA and Malmen CTR

RWY 01/19
Passera banslut på eller under 800 ft QNH. Stig rakt fram, lägsta svänghöjd 1300 ft QNH dager/1800 ft QNH mörker.

RWY 26
Stig på kurs 240° till avstånd 1 NM från ARP.

Om inflygningsfyr (L) ingår i avgående klarering skall fyren överflygas innan sväng påbörjas.

RVR 400 m eller mer krävs för start bana 01/19 (EASA CS ADR-DSN.M.690).

3. Startprocedurer, omnidirectional

RWY 01/19
Cross RWY end at or below 800 ft QNH. Climb straight ahead, no turn before 1300 ft QNH daylight/1800 ft QNH darkness.

RWY 26
Climb on track 240° to distance 1 NM from ARP.

If a Locator is included in departure clearance the beacon is a fly-over point until turn is initiated.

RVR 400 m or more is required for departure runway 01/19 (EASA CS ADR-DSN.M.690).

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
01	Climb straight ahead to MNM turning ALT 700 ft. Continue climb to appropriate MSA.	Building (CIO)	327	020°/3051
		Tree	407	025°/2716
19	Climb straight ahead to MNM turning ALT 800 ft. Continue climb to appropriate MSA.	Tree	437	187°/6811
		Pylon	896	159°/9953

4. VFR-flygning inom Östgöta TMA och Malmen CTR

Normala in- och utpasseringspunkter
Se ESCF 6-1

Väntlägen
Se ESCF 6-1

Avbrott i radioförbindelse
Se ESCF 6-1

4. VFR flight within Östgöta TMA and Malmen CTR

Normal entry and exit points
See ESCF 6-1

Holdings
See ESCF 6-1

Communication failure
See ESCF 6-1

ESCF 2.23 ÖVRIG INFORMATION

1. Förhandstillstånd (PPR) krävs för följande flygningar inom ÖSTGÖTA TMA;

- Fotoflyg
- Prospekteringsflyg
- Lyft av fallskärmshoppare
- Mät och kontrollflygning av navigeringshjälpmedel

Innan färdplan lämnas in skall operatör begära förhandstillstånd från ÖSTGÖTA APP TEL 011 19 28 14.

ADDITIONAL INFORMATION

1. Prior Permission Required (PPR) for the following types of flights within ÖSTGÖTA TMA;

- Aerial photographing
- Geological survey flights
- Parachute dropping
- Calibration flight for nav-aids and approach aids

Before submitting a flight plan the operator shall request prior permission from ÖSTGÖTA APP phone +46 (0)11 19 28 14.

ESCF 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESCF-2-1
AOC	RWY 01/19	ESCF-3-1
AOC	RWY 08/26	ESCF-3-3
Area chart	(TMA)	See ESSP 4-1
List of waypoints and significant points		ESCF 4-3
ATC Surveillance		See ESSP 4-91
Minimum ALT chart		
IAC	ILS or LOC RWY 19	ESCF 5-1
IAC	NDB RWY 19	ESCF 5-2
IAC	ILS or LOC RWY 01	ESCF 5-3
IAC	NDB z RWY 01	ESCF 5-4
IAC	NDB y RWY 01	ESCF 5-5
IAC	NDB x RWY 01 (Cat H)	ESCF 5-6
IAC	RNP RWY 19	ESCF 5-7
IAC	RNP RWY 01	ESCF 5-9
VAC		ESCF 6-1