

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 | 582352N 0153122E RWY 01/19 centre point |
| 2. | Direction and distance from (city) | W 3 NM from Linköping |
| 3. | Elevation/Reference temperature | 308 ft/+19.0°C |
| 4. | Geoid undulation at AD ELEV PSN | 97 ft |
| 5. | MAG VAR/Annual change | 5° E 2015/+0.1 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 35 40 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 IV, mobile unit. Available O/R. |
| 5. | Hangar space for visiting ACFT | - |
| 6. | Repair facilities for visiting ACFT | - |
| 7. | Remarks | - |

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 5. CAT 7 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 | - |

ESCF 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

- | | | |
|----|-------------------------------------|---|
| 1. | Apron surface and strength | Apron 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 F 10.5 m ASPH PCN 15 F/B/X/T
TWY Y 10.5 m ASPH PCN 15 F/B/X/T Narrows to 7.5 m in S part |
| 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 F: HLDG day marked. Edge lights
Y: HLDG 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

- | | | |
|-----|---|---|
| 1. | Associated MET Office | STOCKHOLM/Arlanda |
| 2. | Hours of service
MET Office outside hours | H24 |
| 3. | Office responsible for TAF preparation
Periods of validity | STOCKHOLM/Arlanda
9 HR HO |
| 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 TMC
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	018.30° GEO 013° MAG	2214 x 35	PCN 26 F/B/X/T ASPH	582312.25N 0153057.58E GUND 97 ft	THR 250 ft
19	198.30° GEO 193° MAG	2214 x 35	PCN 26 F/B/X/T ASPH	582420.18N 0153140.44E GUND 97 ft	THR 295.0 ft
08	083.20° GEO 078° MAG	1870 x 37	PCN 24 F/B/X/T ASPH	582405.89N 0153056.13E GUND 97 ft	THR 308 ft
26	263.20° GEO 258° MAG	1870 x 37	PCN 24 F/B/X/T ASPH	582413.01N 0153250.47E GUND 97 ft	THR 277 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	Intermediate TKOF from RWY intersection, see ESCF AOC
08	1870	1870	1910	1870	-
26	1870	1870	1910	1870	-

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	-	-	-	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	-
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 F, Y
CL: -
4. Secondary power supply/switch-over time Available/15 sec
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 1600 ft AMSL
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	Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	MALMEN TOWER	129.800 MHz	HO	Primary FREQ VDF
		121.500 MHz	HO	VDF
		121.050 MHz	HX	VDF
		132.600 MHz	HO	VDF
APP	MALMEN GROUND	121.850 MHz	HX	VDF Also de-icing
		132.950 MHz	HO	-
		135.850 MHz	HX	-
		126.400 MHz	HX	-
		127.350 MHz	HX	-
PAR	MALMEN PRECISION	125.200 MHz	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
L 01	LCF	285 kHz	H24	581917.3N (*) 0152832.2E		Range 15 NM
LOC 19 ILS CAT I (5° E 2015)	CFB	110.10 MHz	H24	582241.2N (*) 0153038.0E		1012 m beyond THR 01
GP		334.40 MHz	H24	582411.5N (*) 0153127.8E		Angle 3.2° RDH 56 ft 300 m past THR 19 right side
L 19	SC	300 kHz	H24	582557.4N 0153308.6E		Range 15 NM
DME	CFB	110.10 MHz	H24	582411.5N (*) 0153128.1E	307 ft	At ILS GP DME channel 38X

ESCF 2.20 LOKALA TRAFIKFÖRESKRIFTER

LOCAL TRAFFIC REGULATIONS

- | | | | |
|----|---|----|--|
| 1. | När ATS har stängt bör luftfartyg blandsända positionsrapport och avsikt på frekvens 118.800 MHz vid användande av manöverområdet samt före angörande av och under flygning i trafikvarv. | 1. | When ATS is closed position reports and intentions should be transmitted on frequency 118.800 MHz before using the manoeuvring area or entering the traffic circuit. |
| 2. | Högervarv tillämpas när RWY 08 och 19 är i användning. | 2. | Right hand traffic circuit when RWY 08 and 19 are in use. |
| 3. | Omfattande skolverksamhet med militära jetflygplan och helikoptrar utanför Malmen och SAAB CTR. | 3. | 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

1. 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.

2. Avgående IFR-trafik inom Östgöta TMA och Malmen CTR

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

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.

3. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. 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.

2. Outbound IFR traffic within Östgöta TMA and Malmen CTR

RWY01/19
Cross RWY end at or below 800 ft QNH. Climb straight ahead, no turn before 1300 ft QNH.

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.

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.	Tree	421	026°/2770
		Church	545	065°/6540
19	Climb straight ahead to MNM turning ALT 800 ft. Continue climb to appropriate MSA.	Tree	453	204°/6750
		Pylon	896	159°/9950

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

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

- Skol- och övningsflygning IFR inkluderande "airwork", väntläge, upprepade instrumentinflygningar och instrumentinflygningar med "full procedur"
- Fotoflyg
- Prospekteringsflyg
- Lyft av fallskärmshoppare
- Mät och kontrollflygning av navigeringshjälpmedel

Innan färdplan lämnas in skall operatör begära förhandstillstånd från ÖSTGÖTA TMC TEL 011 19 25 78.

ADDITIONAL INFORMATION

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

- School and training flights IFR, including "airwork", holding, repeated instrument approaches and instrument approaches with "full procedure"
- Aerial photography
- 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 TMC phone +46 (0)11 19 25 78.

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
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	NDB z RWY 01	ESCF-5-3
IAC	NDB y RWY 01	ESCF-5-4
IAC	NDB x RWY 01 (Cat H)	ESCF-5-5
VAC		ESCF 6-1