

AD 2 AERODROMES**ESOE 2.1 AERODROME LOCATION INDICATOR AND NAME****ESOE – ÖREBRO****ESOE 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|---|
| 1. | ARP coordinates and site at AD | 591341N 0150224E RWY 935 m from THR 19 |
| 2. | Direction and distance from (city) | WSW 5.6 NM from Örebro |
| 3. | Elevation/Reference temperature | 192 ft/+23.0°C |
| 4. | Geoid undulation at AD ELEV PSN | 94 ft |
| 5. | MAG VAR/Annual change | 4° E 2015/+0.1 increasing |
| 6. | Administration, address, telephone, fax, AFS | Örebro Läns Flygplats AB
Örebro Airport
SE-705 94 Örebro
TEL: +46 (0)19 30 70 00
FAX: +46 (0)19 24 11 13
E-mail: handling@orebroairport.se
AFS: ESOEZTZX
Website: www.orebroairport.se |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 4E |
| 8. | Remarks | PPR outside TWR HR of OPS |

ESOE 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|---|
| 1. | AD Administration
AD Operating hours | MON-FRI 0700-1500 (0600-1400)
As ATS |
| 2. | Customs and immigration | O/R TEL +46 (0)40 661 32 20 |
| 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 | Ref AIP SUP/NOTAM |
| 8. | Fuelling | As ATS |
| 9. | Handling | O/R |
| 10. | Security | HO |
| 11. | De-icing | HX |
| 12. | Remarks | Increased charges outside TWR HR of OPS |

ESOE 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Available, all types
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 180,000 l stationary, 70,000 l fuel truck 100LL: 20,000 l stationary
4.	De-icing facilities	Available, type I and II, mobile units
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	-
7.	Remarks	Fuel Supplier Shell. For payment of fuel only Mastercard, Visa and Shell Carnet accepted.

ESOE 2.5 PASSENGER FACILITIES

1.	Hotels	In Örebro
2.	Restaurants	At AD
3.	Transportation	Taxis, rental cars
4.	Medical facilities	In Örebro
5.	Bank and Post Office	In Örebro
6.	Tourist Office	In Örebro
7.	Remarks	-

ESOE 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 7 for SKED TFC, other O/R. Higher CAT O/R
2.	Rescue equipment	By arrangement, municipal rescue service
3.	Capability for removal of disabled aircraft	By arrangement
4.	Remarks	-

ESOE 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Sweepers, 4 units, slinger, spreaders
2.	Clearance priorities	RWY, TWY, Apron, Emergency access road.
3.	Remarks	RWY, TWY and Apron de-iced with KFOR/SAND. Snowclearance/Moving outside TWR HR of OPS can be conducted.

ESOE 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron ASPH PCN 41 F/B/X/T Cargo Apron ASPH PCN 54 F/B/X/T
2.	Taxiway width, surface and strength	TWY A 24 m ASPH PCN 35 F/B/X/T TWY C 25 m ASPH PCN 58 F/B/X/T
3.	ACL, location and elevation	Apron 175 ft
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

ESOE 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 compulsory.
2.	RWY and TWY markings and LGT	RWY 01/19: Designator, THR, TDZ, CL and edges are day marked. RWY CL LGT, RTHL, REDL, RENL TWY A: HLDG day marked. Edge lights, RGL. C: HLDG day marked. Edge lights, RGL
3.	Stop bars	TWY A and C
4.	Remarks	-

ESOE 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT in metres	Markings/ Type, colour	Remarks
a	b	c	d	e	f
ESOE1	Lamp post	591426.3N 0150243.9E	62.0 / -	-	-
ESOE2	Forest	591426.4N 0150243.8E	69.8 / -	-	-
ESOE3	Forest	591426.9N 0150244.7E	70.2 / -	-	-
ESOE4	Forest	591434.9N 0150237.0E	73.2 / -	-	-
ESOE5	Forest	591436.6N 0150236.8E	74.0 / -	-	-
ESOE6	Forest	591203.6N 0150146.9E	56.0 / -	-	-
ESOE7	Forest	591203.3N 0150144.9E	59.2 / -	-	-
ESOE8	Forest	591102.6N 0150117.4E	85.7 / -	-	-
ESOE9	Forest	591103.0N 0150110.7E	87.0 / -	-	-
ESOE10	Forest	591102.6N 0150110.4E	90.0 / -	-	-
ESOE11	Forest	591102.0N 0150115.2E	90.6 / -	-	-
In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESOE 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, interval of issuance | STOCKHOLM/Arlanda
9 HR, https://tafplanner.smhi.se/app.php/production-program |
| 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 | ÖREBRO TWR |
| 10. | Additional information (limitation of service,
etc.) | Flight planning room available |

ESOE 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	011.67° GEO 008° MAG	3270 x 45	PCN 60 F/B/X/T ASPH	591227.17N 0150153.15E GUND 94.2 ft	THR 161.3 ft TDZ 161 ft
19	191.67° GEO 188° MAG	3270 x 45	PCN 60 F/B/X/T ASPH	591410.69N 0150234.89E GUND 94.0 ft	THR 192.3 ft TDZ 192 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
01 See ESOE AOC	-	300 x 150	3390 x 300	-	PCN 70 accepted occasionally. Shoulders available, width 7.5m
19 See ESOE AOC	-	300 x 150	3390 x 300	-	PCN 70 accepted occasionally. Shoulders available, width 7.5m

ESOE 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
01	3270	3570	3270	3270	Intermediate distances see ESOE AOC.
19	3270	3570	3270	3270	Intermediate distances see ESOE AOC.

ESOE 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	Barrette CL CAT I 900 m LIH	Green	PAPI Left/3.00° (50.5 ft)	-	3270/30 m	3270/60 m White Caution zone 600 m yellow LIH	Red	-
19	Barrette CL CAT I 900 m LIH	Green	PAPI Left/3.00° (50.5 ft)	-	3270/30 m	3270/60 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: -

ESOE 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 | Lighted windsock N TWY A. Windsocks at RWY ends
At PAPI 19 and GP 01 |
| 3. TWY edge and centre line lighting | Edge: TWY A, C

CL: - |
| 4. Secondary power supply/switch-over time | Available/8 sec, during LVP less than 1 sec |
| 5. Remarks | - |

ESOE 2.16 HELICOPTER LANDING AREA

RWY 01/19 to be used

ESOE 2.17 ATS AIRSPACE

1.	Designation and lateral limits	ÖREBRO CTR	592534N 0150149E - 592434N 0151325E - 591224N 0151228E - 590200N 0150331E - 590257N 0145213E - 591443N 0145216E - 592534N 0150149E
2.	Vertical limits	ÖREBRO CTR	2000 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	ÖREBRO TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESOE 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	ÖREBRO TOWER	120.280	HO	Primary channel
		121.500	HO	-
		133.605	HX	-
	ÖREBRO DE-ICING	121.905	HO	-

ESOE 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 (4° E 2015)	SOE	109.10 MHz	HO	591418.7N 0150238.2E		254 m beyond THR 19
GP		331.40 MHz	H24	591237.8N 0150149.7E		Angle 3.0° RDH 54.0 ft 311 m past THR 01 left side
OM				590802.2N 0150010.6E		-
MM				591158.5N 0150141.6E		-
NDB 01	RB	375 kHz	H24	590802.4N 0150011.0E		Range 30 NM
LOC 19 ILS CAT I (4° E 2015)	NOE	108.50 MHz	HO	591218.8N 0150149.8E		264 m beyond THR 01
GP		329.90 MHz	H24	591401.3N 0150223.4E		Angle 3.0° RDH 54.1 ft 321 m past THR 19 right side
NDB 19	EN	400 kHz	H24	591727.8N 0150354.1E		Range 30 NM
DME	NOE	108.50 MHz	H24	591401.4N 0150222.9E	204 ft	DME channel 22X

ESOE 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Förhandstillstånd (PPR)

PPR erfordras utanför flygplatsens/ATS öppethållande. Tillstånd ges endast för VFR-trafik med enmotoriga flygplan och kan erhållas från flygklubben, Tel +46 (0)19 24 10 20.

2. Restriktioner för skol- och övningsflygning

PPR för skolflygning enligt IFR inom CTR/TMA.

Start- och landningsövningar och upprepade instrumentinflygningar tillåts endast under tiden 0600–2100 (0500–2000).

3. Trafikvarv

Utanför ATS öppethållning skall trafikvarv flygas W RWY.

4. Funktionsfel på stoppljus

När stoppljus på taxibana inte går att reglera gäller följande: Vid nyttjande av taxibana med fel på manövreringsutrustning för stoppljus gäller att passage av tätt stoppljus endast får ske efter rangerbil. ATC informerar vid klarering.

5. Avisning

Avisning utförs på västra delen av plattan, se flygplatskartan. För instruktioner kontakta avisningen på kanal 121.905.

6. Varningsljus för bana i användning (RGL)

RGL är aktiverade under ATS öppethållning.

ESOE 2.21 MINSKNING AV BULLERSTÖRNING

1. Ankommande:

Fram till slutlig inflygning bibehålla en flyghöjd som inte förorsakar en markbullernivå som överstiger 70 dB(A). Restriktionen ingår i klarering. Reversering bör ej utföras 2100–0600 (2000–0500).

2. Avgående RWY 01:

Vid start skall rak utflygning tillämpas till sådan höjd uppnåtts/passerats att markbullernivån underskrider maximala 70 dB(A). Restriktionen ingår i klarering.

3. Avgående RWY 19:

Vid start skall utflygning ske via RB, därefter högersväng på kurs 240° tills sådan höjd uppnåtts/passerats att markbullernivån underskrider maximala 70 dB(A). Restriktionen ingår i klarering.

Lufffartyg med MTOM mindre än 2000 kg skall tillämpa rak utflygning RWY 01/19 till 1500 ft har uppnåtts innan sväng får påbörjas. Restriktionen ingår ej i klarering.

LOCAL TRAFFIC REGULATIONS

1. Prior permission required (PPR)

PPR outside aerodrome/ATS hours of operation. Permission will be given to VFR traffic with single-engined aeroplanes only. Permission obtainable from flying club, Tel +46 (0)19 24 10 20.

2. Restrictions for school and training flights

PPR for IFR training flights within CTR/TMA.

Take-off and landing exercises and repeated instrument approaches accepted only between 0600–2100 (0500–2000).

3. Traffic circuit

Traffic circuit W of RWY outside TWR HR of OPS .

4. Malfunctioning stopbar

When a taxiway stopbar is not controllable the following procedure apply: When using taxiway with malfunctioning stopbar manoeuvring, taxiing pass a lighted stopbar is only permitted behind a marshalling car. ATC will inform via clearance.

5. De-icing

De-icing at western part of the apron, see AD-chart. Contact de-icing on channel 121.905 for instructions.

6. Runway guard lights (RGL)

RGL activated during TWR HR of OPS.

NOISE ABATEMENT PROCEDURES

1. Arrivals:

Maintain a height during approach where the noise emission reaching ground is below 70 dB(A) until on final. Restriction included in ATC clearance. Engine reverse should not be applied 2100–0600 (2000–0500).

2. Departure RWY 01:

Climb on RWY track until reaching/passing a height where the noise emission reaching ground is below 70 dB(A). Restriction included in ATC clearance.

3. Departure RWY 19:

Climb on RWY track until passing RB, then turn right heading 240° until reaching/passing a height where the the noise emission reaching ground I below 70 dB(A). Restriction included in ATC clearance.

Aircraft with MTOM not exceeding 2000 kg departing RWY 01/19 shall climb straight ahead to 1500 ft until turn is initiated. Restriction not included in ATC clearance.

ESOE 2.22 FLYGPROCEDURER

1. Startprocedurer, omnidirectional

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
01	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Pylon	1873	002°/24360
19	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Pylon	1873	001°/21800

2. Lågsiktsprocedurer (LVP)

Bana 01 och 19 är godkända för avgångstrafik när RVR underskrider 550 m.

När LVP tillämpas tillåts endast fordon alternativt ett luftfartyg på manöverområdet.

Guided take-off ej tillåten.

3. VFR-flygning inom Örebro TMA/CTR

Normala in- och utpasseringspunkter
Se ESOE 6-1

Väntlägen
Se ESOE 6-1

Avbrott i radioförbindelse
Se ESOE 6-1

FLIGHT PROCEDURES

1. Omnidirectional departure procedures

2. Low visibility procedures (LVP)

Runways 01 and 19 are approved for departure operations when RVR is below 550 m.

When LVP is applied vehicles or only one aircraft is allowed in the manoeuvring area.

Guided take-off not available.

3. VFR flight within Örebro TMA/CTR

Normal entry and exit points
See ESOE 6-1

Holdings
See ESOE 6-1

Communication failure
See ESOE 6-1

ESOE 2.23 ÖVRIG INFORMATION

1. Restriktioner segelflyg

Segelflygstråk E fältet. PPR TEL +46 (0)19 24 10 60.

2. Nedsvep kan förekomma på final RWY 19. Vid vindriktningar mellan 210° och 270 ° och vindhastigheter överstigande 10 kts risk för turbulens på kort final RWY 19.

ADDITIONAL INFORMATION

1. Restrictions for gliders

Glider strip E of field. PPR TEL +46 (0)19 24 10 60.

2. Downdraught may occur on final RWY 19. At wind directions between 210° and 270 ° and wind speeds exceeding 10 kts risk for turbulence on short final RWY 19.

ESOE 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESOE 2-1
AOC	RWY 01/19	ESOE-3-1
Area chart	TMA	ESOE 4-1
List of waypoints and significant points		ESOE 4-3
ATC Surveillance		ESOE 4-91
Minimum ALT Chart		
IAC	ILS RWY 19 Cat A/B	ESOE 5-1
IAC	ILS RWY 19 Cat C/D/DL	ESOE 5-2
IAC	NDB RWY 19 Cat A/B	ESOE 5-3
IAC	NDB RWY 19 Cat C/D	ESOE 5-4
IAC	ILS RWY 01 Cat A/B	ESOE 5-5
IAC	ILS RWY 01 Cat C/D/DL	ESOE 5-6
IAC	LOC RWY 01 Cat A/B	ESOE 5-7
IAC	LOC RWY 19 Cat C/D/DL	ESOE 5-8
IAC	NDB RWY 01 Cat A/B	ESOE 5-9
IAC	NDB RWY 01 Cat C/D	ESOE 5-10
IAC	RNP RWY 01	ESOE 5-11
IAC	RNP RWY 19	ESOE 5-15
VAC		ESOE 6-1