

AD 2 AERODROMES**ESMQ 2.1 AERODROME LOCATION INDICATOR AND NAME****ESMQ – KALMAR****ESMQ 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|--|
| 1. | ARP coordinates and site at AD | 564108N 0161715E RWY 640 m from THR 34 |
| 2. | Direction and distance from (city) | WNW 2.5 NM from Kalmar |
| 3. | Elevation/Reference temperature | 18 ft/+18.5°C |
| 4. | Geoid undulation at AD ELEV PSN | 100 ft |
| 5. | MAG VAR/Annual change | 6° E 2020/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | KalmarOland Airport AB
SE-392 41 Kalmar
TEL: +46 (0)10 357 48 00
E-mail: flyget@kalmarairport.se
AFS: ESMQZTZX
Website: www.kalmarolandairport.se |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 4E |
| 8. | Remarks | PPR for all traffic outside TWR HR of OPS. Apply for PPR via kalmarolandairport.se |

ESMQ 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|---|
| 1. | AD Administration
AD Operating hours | MON-FRI 0700-1600 (0600-1500)
H24 |
| 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 | As ATS |
| 10. | Security | As ATS |
| 11. | De-icing | As ATS |
| 12. | Remarks | Increased charges outside TWR HR of OPS.
Extended operational hours occurs frequently. |

ESMQ 2.4 HANDLING SERVICES AND FACILITIES

- | | | |
|----|--|-------------------------------|
| 1. | Cargo-handling facilities | Available by arrangement |
| 2. | Fuel/oil types | Fuel Jet A1, UL 91
Oil - |
| 3. | Fuelling facilities/discharge capacity | Jet A1: 120,000 l
UL 91: - |
| 4. | De-icing facilities | Type I and II, mobile unit |
| 5. | Hangar space for visiting ACFT | - |
| 6. | Repair facilities for visiting ACFT | - |
| 7. | Remarks | Fuel supplier AirBP |

ESMQ 2.5 PASSENGER FACILITIES

- | | | |
|----|----------------------|-----------------------------------|
| 1. | Hotels | In Kalmar |
| 2. | Restaurants | At AD |
| 3. | Transportation | Airport buses, taxis, rental cars |
| 4. | Medical facilities | In Kalmar |
| 5. | Bank and Post Office | In Kalmar |
| 6. | Tourist Office | In Kalmar |
| 7. | Remarks | - |

ESMQ 2.6 RESCUE AND FIRE FIGHTING SERVICES

- | | | |
|----|---|--|
| 1. | AD category for fire fighting | CAT 6. For commercial traffic exceeding 2500 kg MTOM 180 sec.
CAT 7 O/R |
| 2. | Rescue equipment | By arrangement, municipal rescue service |
| 3. | Capability for removal of disabled aircraft | By arrangement, contact airport duty officer TEL +46 (0)10 357 49 93. |
| 4. | Remarks | - |

ESMQ 2.7 SEASONAL AVAILABILITY – CLEARING

- | | | |
|----|-----------------------------|--|
| 1. | Types of clearing equipment | Snowploughs, blowers, sweepers, slinger |
| 2. | Clearance priorities | RWY, TWY, Apron |
| 3. | Remarks | RWY 05/23 not cleared during winter season |

ESMQ 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

- | | | |
|----|-------------------------------------|--|
| 1. | Apron surface and strength | Apron 1 ASPH PCN 50 F/B/X/T
Apron 2 CONC PCN 9 R/B/X/U |
| 2. | Taxiway width, surface and strength | TWY A northern part 10 m CONC PCN 20 R/B/X/U between TWY A1 and Apron 2
TWY A southern part 10 m ASPH PCN 20 F/B/X/T from Apron 2 to TWY A8. Width between Apron 1 and 2 15 m
TWY A1 10 m CONC PCN 20 R/B/X/U
TWY A8 28 m ASPH PCN 50 F/B/X/T
TWY A10 23 m ASPH PCN 50 F/B/X/T |
| 3. | ACL, location and elevation | See ESMQ 2-1 |
| 4. | VOR checkpoints | At holding position TWY A8 |
| 5. | INS checkpoints | - |
| 6. | Remarks | - |

ESMQ 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 to scheduled traffic only. | | | | | | | | | | | | | | |
| 2. | RWY and TWY markings and LGT | <table border="0"> <tr> <td style="vertical-align: top;">RWY 05/23:</td> <td style="vertical-align: top;">Designator, THR, TDZ, CL and edges are day marked.
RTHL, REDL, RENL, RGL</td> </tr> <tr> <td style="vertical-align: top;">16/34:</td> <td style="vertical-align: top;">Designator, THR, TDZ, CL and edges are day marked.
RTHL, REDL, RENL.</td> </tr> <tr> <td style="vertical-align: top;">TWY A northern part:</td> <td style="vertical-align: top;">CL, HLDG day marked.</td> </tr> <tr> <td style="vertical-align: top;">A southern part:</td> <td style="vertical-align: top;">CL, HLDG day marked. Edge lights.</td> </tr> <tr> <td style="vertical-align: top;">A1:</td> <td style="vertical-align: top;">CL, HLDG day marked. RGL.</td> </tr> <tr> <td style="vertical-align: top;">A8:</td> <td style="vertical-align: top;">CL, HLDG day marked. Edge lights, RGL.</td> </tr> <tr> <td style="vertical-align: top;">A10:</td> <td style="vertical-align: top;">CL, HLDG day marked. Edge lights, RGL.</td> </tr> </table> | RWY 05/23: | Designator, THR, TDZ, CL and edges are day marked.
RTHL, REDL, RENL, RGL | 16/34: | Designator, THR, TDZ, CL and edges are day marked.
RTHL, REDL, RENL. | TWY A northern part: | CL, HLDG day marked. | A southern part: | CL, HLDG day marked. Edge lights. | A1: | CL, HLDG day marked. RGL. | A8: | CL, HLDG day marked. Edge lights, RGL. | A10: | CL, HLDG day marked. Edge lights, RGL. |
| RWY 05/23: | Designator, THR, TDZ, CL and edges are day marked.
RTHL, REDL, RENL, RGL | | | | | | | | | | | | | | | |
| 16/34: | Designator, THR, TDZ, CL and edges are day marked.
RTHL, REDL, RENL. | | | | | | | | | | | | | | | |
| TWY A northern part: | CL, HLDG day marked. | | | | | | | | | | | | | | | |
| A southern part: | CL, HLDG day marked. Edge lights. | | | | | | | | | | | | | | | |
| A1: | CL, HLDG day marked. RGL. | | | | | | | | | | | | | | | |
| A8: | CL, HLDG day marked. Edge lights, RGL. | | | | | | | | | | | | | | | |
| A10: | CL, HLDG day marked. Edge lights, RGL. | | | | | | | | | | | | | | | |
| 3. | Stop bars | - | | | | | | | | | | | | | | |
| 4. | Remarks | - | | | | | | | | | | | | | | |

ESMQ 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT in feet	Markings/ Type, colour	Remarks
a	b	c	d	e	f
ESMQ1	LOC	564038.5N 0161743.1E	33 / -	-	-
ESMQ2	Forest	564033.5N 0161748.2E	49 / -	-	-
ESMQ3	Forest	564033.2N 0161747.7E	50 / -	-	-
ESMQ4	Forest	564011.2N 0161812.6E	86 / -	-	-
ESMQ5	Sign	564157.4N 0161625.9E	33 / -	-	-
ESMQ6	Forest	564157.5N 0161621.1E	60 / -	-	-
ESMQ7	Forest	564213.2N 0161623.2E	78 / -	-	-
ESMQ8	Forest	564224.3N 0161616.6E	101 / -	-	-
ESMQ9	Forest	564231.4N 0161608.0E	114 / -	-	-

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

ESMQ 2.11 METEOROLOGICAL INFORMATION PROVIDED

1. Associated MET Office STOCKHOLM/Arlanda
2. Hours of service H24
MET Office outside hours
3. Office responsible for TAF preparation STOCKHOLM/Arlanda
Periods of validity, interval of issuance 9 HR, <https://tafplanner.smhi.se/app.php/production-program>
4. Type of landing forecast Not issued
Interval of issuance
5. Briefing/consultation provided FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
6. Flight documentation TAF, METAR, SIGMET, Upper air winds
Language(s) used Swedish/English
7. Charts and other information available for SWC, WC, Nordic SIGWX Chart, Low level forecast
briefing or consultation
8. Supplementary equipment available for -
providing information
9. ATS units provided with information KALMAR TWR
10. Additional information (limitation of service, Flight planning room available.
etc.)

ESMQ 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
16	152.17° GEO 146° MAG	2050 x 45	PCN 50 F/B/X/T ASPH	564148.55N 0161635.97E GUND 99.9 ft	THR 18.0 ft TDZ 18 ft
34	332.19° GEO 326° MAG	2050 x 45	PCN 50 F/B/X/T ASPH	564049.93N 0161732.19E GUND 100 ft	THR 16 ft
05	048.10° GEO 042° MAG	656 x 40	PCN 30 F/B/X/T ASPH	564050.24N 0161639.41E GUND 100 ft	THR 10 ft
23	228.10° GEO 222° MAG	656 x 40	PCN 30 F/B/X/T ASPH	564104.39N 0161708.08E GUND 100 ft	THR 10 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
16 See ESMQ AOC	270 x 45	270 x 150	2380 x 300	-	Including 270 m start extension RWY 34
34 See ESMQ AOC	-	-	2380 x 300	-	Including 270 m start extension
05	-	-	776 x 150	-	RWY non-instrument
23	-	-	776 x 150	-	RWY non-instrument

ESMQ 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
16	2050	2320	2320	2050	-
34	2320	2320	2320	2050	Including start extension 270 m south THR 34
05	656	656	656	656	-
23	656	656	656	656	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS

RWY	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)	Remarks	
1		2	3	4	5	6
34	TWY A8	2050	2050	2050	-	-

ESMQ 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
16	Calvert CAT I 900 m LIL/LIH	Green WBAR	PAPI Left/3.00° (51.5 ft)	-	-	2050/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
34	-	Green WBAR	PAPI Left/3.00° (52.5 ft)	-	-	270/60 m Red 2050/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
10 Remarks: RWY 16: LED lights on REDL, WBAR, TRID, RTHL. RWY 34: LED lights on REDL, WBAR, TRID, RTHL. TRID LIH.								

ESMQ 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
Windsock 400 m NE RWY intersection
At GP RWY 16 and E THR 34
3. TWY edge and centre line lighting
Edge: TWY A southern part, A8, A10
CL: -
LED lights on TWY lights.
4. Secondary power supply/switch-over time Available/Without interruption
5. Remarks -

ESMQ 2.16 HELICOPTER LANDING AREA

As directed by ATC

ESMQ 2.17 ATS AIRSPACE

1.	Designation and lateral limits	KALMAR CTR	565221N 0161228E - 564248N 0162617E - 563458N 0162934E - 563222N 0162028E - 563819N 0160849E - 564939N 0160251E - 565221N 0161228E
2.	Vertical limits	KALMAR CTR	1500 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	KALMAR TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESMQ 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR/APP	KALMAR TOWER	130.805	HO	Primary channel VDF.
		121.500	HO	VDF
		127.055	HX	VDF

ESMQ 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 16 ILS CAT I (6° E 2020)	MQ	108.70 MHz	H24	564034.0N 0161747.4E		556 m beyond THR 34 ILS Class I/E/2
GP		330.50 MHz	H24	564141.2N 0161651.0E		Angle 3.0° RDH 50.2 ft 320 m past THR 16 left side
VOR/DME (6° E 2020)	KAL	111.60 MHz	H24	564107.2N 0161702.8E	26 ft	200 m W ARP DME channel 53X
DME	MQ	108.70 MHz	H24	564141.3N 0161651.2E	13 ft	Poor DME coverage below 4000 ft AMSL beyond 17 NM. DME channel 24X

ESMQ 2.20 LOKALA TRAFIKFÖRESKRIFTER

- Minsta möjliga motoreffekt ska användas vid taxning på plattan.
- Fordonstrafik utan dubbelriktad flygradioförbindelse kan förekomma utanför ATS öppethållning.

Vid flygning i CTR utanför ATS öppethållning ska blindsändning göras på 130.805.

Taxning med luftfartyg utanför ATS öppethållning får endast ske då sikten överstiger 500 m.

LOCAL TRAFFIC REGULATIONS

- Engines shall be operated at minimum power required when taxiing on apron.
- Vehicle movements without two way radio communication may occur outside ATS hours of operations.

When flying in CTR outside ATS hours of operations blind transmission should be made on 130.805.

Taxiing of aircraft outside ATS hours of operations is only allowed in visibility above 500 m.

ESMQ 2.21 MINSKNING AV BULLERSTÖRNING

Luftfartyg ska noggrant följa i klareringen angiven flygväg samt i övrigt framföras så att onödiga bullerstörningar inte förorsakas.

NOISE ABATEMENT PROCEDURES

Aircraft shall strictly adhere to the assigned route and be operated in such manner that unnecessary noise disturbances are not caused.

ESMQ 2.22 FLYGPROCEDURER

1. Flygvägar för ankommande och avgående trafik IFR
Se ESMQ 4-5 till ESMQ 4-20.

Väntlägen (Ref ENR 1.3 mom 9)
Väntlägen är upprättade enligt ESMQ 4-1.

2. Instrumentinflygningsprocedurerna får endast användas under ATS öppethållning.

3. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Arrival and departure routes IFR
See ESMQ 4-5 through ESMQ 4-20.

Holdings (Ref ENR para 1.3 mom 9)
Holdings are established accordance with ESMQ 4-1.

2. Instrument approach procedures may only be used during ATS hours of operation.

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
16	Climb straight ahead to MNM turning ALT 500 ft AMSL. Continue climb to appropriate MSA.	Tree (CIO)	60	148°/2504
		Stack (Chimneys)	224	144°/5310
34	Climb straight ahead to MNM turning ALT 500 ft AMSL. Continue climb to appropriate MSA.	Tree (CIO)	142	337°/3234

4. Lägsta RVR för avgående trafik är 400 m.

5. Lågsiktsprocedurer (LVP) etablerade.

LVP träder i kraft när bansynvidden (RVR) är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

Meddelande om att LVP är i kraft lämnas av ATS.

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

När LVP tillämpas ska luftfartyg meddela lämnade av manöverområdet genom att anmäla framme på avsedd parkeringsplats.

6. VFR-flygning inom Kalmar TMA/CTR

Normala in- och utpasseringspunkter
Se ESMQ 6-1

Väntlägen
Se ESMQ 6-1

Avbrott i radioförbindelse
Se ESMQ 6-1

4. Minimum RVR for departing traffic is 400 m.

5. Low visibility procedures (LVP) established.

LVP will be in force when RVR is below 550 m or ceiling or vertical visibility is below 200 ft.

The application of LVP will be announced by ATS.

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

When LVP is applied aircraft shall report RWY vacated at stand.

6. VFR flight within Kalmar TMA/CTR

Normal entry and exit points
See ESMQ 6-1

Holdings
See ESMQ 6-1

Communication failure
See ESMQ 6-1

ESMQ 2.23 ÖVRIG INFORMATION

1. Reducerad banseparation tillämpas på flygplatsen enligt AIP AD 1.1 mom 10.

2. Beviljade undantag från krav i CS-ADR-DSN

ADDITIONAL INFORMATION

1. Reduced runway separation is applied at the aerodrome in accordance with AIP AD 1.1 para 10.

2. Granted exemptions from requirements in CS-ADR-DSN

Fasta hinder genomtränger följande hinderbegränsande ytor enligt förteckning:

- Inflygningsyta bana 16 och 34
- Horisontella ytan
- Koniska ytan
- Övergångsytan bana 16 och 34
- Stråkytan bana 16 och 34

Fixed obstacles penetrate the following obstacle limitations surfaces according to list:

- Approach surface RWY 16/34
- Horizontal surface
- Conical surface
- Transition surface RWY 16/34
- Strip RWY 16/34

ESMQ 2.24 TILLHÖRANDE KARTOR

AD chart		
AOC	RWY 16/34	
Area chart	(TMA)	
List of waypoints and significant points		
SID	RWY 16	
SID	RWY 34	
STAR	RWY 16	
STAR	RWY 34	
SID RNP	RWY 16 LAGIS 1K, LATVI 1K, MOVIS 1K, TILSA 1K	
SID RNP	RWY 34 LAGIS 1L, LATVI 1L, MOVIS 1L, TILSA 1L	
STAR RNP	RWY 16 LAGIS 1S, LATVI 1S, MOVIS 1S, TILSA 1S	
STAR RNP	RWY 34 LAGIS 1T, LATVI 1T, MOVIS 1T, TILSA 1T	
ATC Surveillance Minimum ALT chart		
IAC	ILS or LOC RWY 16	
IAC	VOR RWY 34	
IAC	RNP RWY 16	
IAC	RNP RWY 34	
VAC		

RELATED CHARTS

ESMQ 2-1
ESMQ-3-1
ESMQ 4-1
ESMQ 4-3
ESMQ 4-5
ESMQ 4-7
ESMQ 4-9
ESMQ 4-11
ESMQ 4-13
ESMQ 4-15
ESMQ 4-17
ESMQ 4-19
ESMQ 4-91
ESMQ 5-1
ESMQ 5-2
ESMQ 5-3
ESMQ 5-7
ESMQ 6-1