

AD 2 AERODROMES**ESOH 2.1 AERODROME LOCATION INDICATOR AND NAME****ESOH – HAGFORS****ESOH 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|---|
| 1. | ARP coordinates and site at AD | 600116N 0133444E RWY 625 m from THR 18 |
| 2. | Direction and distance from (city) | W 5.4 NM from Hagfors |
| 3. | Elevation/Reference temperature | 474 ft/+22.6°C |
| 4. | Geoid undulation at AD ELEV PSN | 102 ft |
| 5. | MAG VAR/Annual change | 5° E 2020/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | Hagfors Airport
Flygplatsvägen 13
SE-683 93 Råda
TEL: +46 (0)563 603 68
E-mail: flygplats@hagfors.se
AFS: ESOHZTX
Website: www.hagfors.se/hagforsairport |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 3C |
| 8. | Remarks | PPR for IFR and commercial traffic:
TEL: +46 (0)563 601 75 (ATS), +46 (0)563 603 68
E-mail: ats@hagfors.se, flygplats@hagfors.se
IFR traffic is only allowed when ATS is open. |

ESOH 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|---|
| 1. | AD Administration
AD Operating hours | O/R
H24 |
| 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-FRI 0445-0600, 0815-0935, 1515-1625, 1715-1835
(0345-0500, 0715-0835, 1415-1525, 1615-1735)
SAT-SUN and HOL O/R |
| 8. | Fuelling | MON-SUN O/R +46 (0)563 603 68 |
| 9. | Handling | O/R |
| 10. | Security | - |
| 11. | De-Icing | O/R |
| 12. | Remarks | Increased charges outside AFIS and AD Administration hours |

ESOH 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	-
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 20 000 l 100LL: 10 000 l
4.	De-icing facilities	Available, Type I
5.	Hangar space for visiting ACFT	O/R
6.	Repair facilities for visiting ACFT	-
7.	Remarks	For payment of fuel major credit cards accepted. Pressure refueling not available.

ESOH 2.5 PASSENGER FACILITIES

1.	Hotels	In Hagfors
2.	Restaurants	In Hagfors
3.	Transportation	Taxi
4.	Medical facilities	In Hagfors
5.	Bank and Post Office	In Hagfors
6.	Tourist Office	In Hagfors
7.	Remarks	-

ESOH 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 3 for SKED traffic, other O/R (Max CAT 6)
2.	Rescue equipment	By arrangement
3.	Capability for removal of disabled aircraft	-
4.	Remarks	-

ESOH 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, sweepers, blowers, slingers, spreaders
2.	Clearance priorities	RWY, Emergency access road, TWY, Apron
3.	Remarks	RWY, TWY and apron de-iced with SAND/UREA No clearing SAT, SUN and HOL

ESOH 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron ASPH PCN 22 F/B/X/T
2.	Taxiway width, surface and strength	TWY A 15 m ASPH PCN 26 F/B/X/T
3.	ACL, location and elevation	Apron 474 ft
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

ESOH 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 giude lines and signs |
| 2. | RWY and TWY markings and LGT | RWY 18/36: Designator, THR, CL and edges are day marked RTHL, REDL, RENL

TWY A: CL, HLDG day marked. Edge LGT, RGL |
| 3. | Stop bars | - |
| 4. | Remarks | - |

ESOH 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
ESOH1	Pole	600044.9N 0133447.2E	144.3 / -	-	-
ESOH2	Shrub	600044.1N 0133440.6E	147.5 / -	-	-
ESOH3	Shrub	600042.9N 0133453.7E	148.4 / -	-	-
ESOH4	Forest	600042.3N 0133453.9E	148.7 / -	-	-
ESOH5	Forest	600041.8N 0133440.5E	154.9 / -	-	-
ESOH6	Forest	600041.6N 0133440.8E	156.2 / -	-	-
ESOH7	Shrub	600143.8N 0133447.4E	148.6 / -	-	-
ESOH8	Shrub	600144.3N 0133446.1E	149.1 / -	-	-
ESOH9	Shrub	600146.1N 0133432.3E	150.0 / -	-	-
ESOH10	Shrub	600148.5N 0133433.0E	150.7 / -	-	-
ESOH11	Forest	600155.7N 0133448.2E	155.3 / -	-	-
ESOH12	Forest	600202.6N 0133449.1E	166.7 / -	-	-
ESOH13	Forest	600203.6N 0133448.6E	170.2 / -	-	-
ESOH14	Forest	600204.4N 0133447.1E	171.8 / -	-	-
ESOH15	Forest	600204.5N 0133446.7E	171.9 / -	-	-
ESOH16	Forest	600211.8N 0133443.0E	175.0 / -	-	-
ESOH17	Forest	600215.0N 0133441.6E	176.8 / -	-	-
ESOH18	Forest	600218.6N 0133424.1E	179.8 / -	-	-
In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESOH 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 | 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 | 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 | HAGFORS AFIS |
| 10. | Additional information (limitation of service,
etc.) | Flight planning room available |

ESOH 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
18	176.69° GEO 172° MAG	1508 x 30	PCN 25 F/B/X/T ASPH	600136.57N 0133441.24E GUND 102.1 ft	THR 474.3 ft TDZ 474.3 ft
36	356.69° GEO 352° MAG	1508 x 30	PCN 25 F/B/X/T ASPH	600047.91N 0133446.87E GUND 102 ft	THR 469 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
18 See ESOH AOC	-	-	1628 x 280	-	-
36 See ESOH AOC	-	-	1628 x 280	-	-

ESOH 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
18	1508	1508	1508	1508	-
36	1508	1508	1508	1508	-

ESOH 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
18	Barrette CL CAT I 900 m LIL/LIH	Green	PAPI Left/3.00° (50.0 ft)	-	-	1508/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
36	-	Green	PAPI Left/3.00° (21.5 ft)	-	-	1508/60 M White Caution zone 600 m yellow LIL/LIH	Red	-
10 Remarks: -								

ESOH 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 S apron, windsocks at RWY ends
At PAPI RWY 18 |
| 3. | TWY edge and centre line lighting | Edge: TWY A

CL: - |
| 4. | Secondary power supply/switch-over time | Available/15 sec |
| 5. | Remarks | - |

ESOH 2.16 HELICOPTER LANDING AREA

RWY 18/36 to be used

ESOH 2.17 ATS AIRSPACE

- | | | | |
|----|-----------------------------------|---|---|
| 1. | Designation and lateral limits | HAGFORS TIZ/RMZ | 600844N 0133718E - 600132N 0134406E -
595352N 0133915E - 595339N 0133141E -
600100N 0132526E - 600832N 0133016E -
600844N 0133718E |
| 2. | Vertical limits | HAGFORS TIZ/RMZ | 1000 ft GND
<hr/> GND |
| 3. | Airspace classification | G | |
| 4. | ATS unit call sign
Language(s) | HAGFORS INFORMATION | Swedish/English |
| 5. | Transition altitude | 5000 ft AMSL | |
| 6. | Remarks | Continuous two-way radiocommunication required in TIZ/RMZ.
TIZ/RMZ established during hours of AFIS. | |

ESOH 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	HAGFORS INFORMATION	122.230	HO	VDF
		121.500	HO	VDF

ESOH 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 18 ILS CAT I (5° E 2020)	IHF	110.10 MHz	H24	600042.9N 0133447.5E		155 m beyond THR 36
GP		334.40 MHz	H24	600125.7N 0133434.4E		Angle 3.0° RDH 49.9 ft 330 m THR 18 right side
L 18	HT	345 kHz	H24	600634.7N 0133403.0E		Range 15 NM
L 36	AB	393 kHz	H24	595701.5N 0133509.0E		Range 15 NM
DME	IHF	110.10 MHz	H24	600125.6N 0133434.2E	488 ft	DME channel 38X

ESOH 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. NDB 36 och AB väntläge får användas efter tillstånd från ESOK ATS. Se ESOH-5-4.
2. För landning utanför ATS öppethållning ska avsikt att landa och tid till landning tydligt aviseras på kanalen för Hagfors AFIS, följt av att banan korsas på trafikvarvshöjd +500 ft för säkerställande av fri tillgänglighet samt för att uppmärksamma flygplatspersonal.
3. För start utanför ATS öppethållning ska avsikt att starta samt tid till start tydligt aviseras på kanalen för Hagfors AFIS.

LOCAL TRAFFIC REGULATIONS

1. NDB 36 and AB holding is available with prior permission from ESOK ATS. See ESOH-5-4.
2. For landing outside ATS operational hours intention to land and time to landing shall be clearly declared on channel for Hagfors AFIS, followed by a RWY crossing at AD traffic pattern altitude +500 ft in order to verify RWY availability and to alert AD personnel of presence.
3. For take-off outside ATS operational hours intention to start and time to start shall be clearly declared on channel for Hagfors AFIS.

ESOH 2.21 MINSKNING AV BULLERSTÖRNING

1. Överflygning av Råda samhälle (SE RWY 18) och Uddeholm samhälle bör undvikas.
2. Upprepade studs-och-gå är förbjudet mellan 2100-0500 (2000-0400).

NOISE ABATEMENT PROCEDURES

1. Overflying Råda (SE end RWY 18) and Uddeholm should be avoided.
2. Repeated touch-and-go landings are prohibited between 2100-0500 (2000-0400).

ESOH 2.22 FLYGPROCEDURER

FLIGHT PROCEDURES

1. Startprocedurer, omnidirectional
1. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
18	Climb straight ahead with MNM 230 ft/NM (3.8%) to MNM turning ALT 1300 ft. Continue climb to appropriate MSA.	Tree	778	167°/4650
36	Climb straight ahead with MNM 310 ft/NM (5.0%) to MNM turning ALT 1400 ft.	Tree (CIO)	1086	015°/6150

2. Lägsta RVR för avgående trafik är 550 m.
2. Minimum RVR for departing traffic is 550 m.

ESOH 2.23 ÖVRIG INFORMATION

ADDITIONAL INFORMATION

1. Nya flygoperatörer vid Hagfors flygplats med luftfartyg tillhörande referenskodsiffr 3 skall ha tagit del av den aktuella hindersituationen och övriga avsteg från referenskod 3C innan flygplatsen trafikeras. Dokumentation tillhandahålls av flygplatsen. Flygoperatören skall innan trafiken påbörjas redovisa för flygplatsen att de kan operera på ett säkert sätt.

2. Undantag från krav i CS ADR-DSN för flygplats-referenskod 3C:
 - Delar av stråket uppfyller inte krav på stråkbredd
 - Det finns fasta föremål på stråket
 - Det finns hinder i den koniska ytan, horisontella ytan, inflygningsytan, start- och stigytan, övergångsytorna och stråkytorna

3. Nedsvep kan förekomma på final RWY 36.
Risk för turbulens på kort final RWY 36.

4. Var uppmärksam på fåglar i anslutning till RWY 18/36.
1. New operators at Hagfors AD with aircraft belonging to aerodrome reference code number 3 shall review the obstacle situation and other deviations from reference code 3C. Documentation of the deviations is available from the aerodrome administration. Before the traffic commences, the operator must present to the aerodrome that they can operate safely.

2. Exemptions from requirements in CS ADR-DSN for aerodrome reference code 3C:
 - Parts of the runway strip does not fulfil the requirement for width of runway strip
 - There are objects on the runway strip, which do not fulfil the requirement
 - There are obstacles penetrating the conical surface, horizontal surface, approach surface, take-off- and climb surface, transitional surfaces and strip surface

3. Downdraught may occur on final RWY 36.
Risk for turbulence on short final RWY 36.

4. Caution advised, concentration of birds RWY 18/36.

ESOH 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD Chart	ESOH 2-1
AOC RWY 18/36	ESOH-3-1
List of waypoints and significant points	ESOH 4-3
IAC ILS or LOC RWY 18	ESOH 5-1
IAC NDB RWY 18 (Cat A/B)	ESOH 5-2
IAC NDB RWY 36 (Cat A/B)	ESOH 5-3
IAC RNP RWY 36	ESOH 5-5
IAC RNP RWY 18 (LPV, LNAV only)	ESOH 5-9
VAC	ESOH 6-1