

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. Name of aerodrome operator, address, telephone, telefax numbers, AFS, e-mail, website	Hagfors Airport Flygplatsvägen 13 SE-683 93 Råda TEL: +46 563 603 68 E-mail: flygplats@hagfors.se AFS: ESOHZTZX 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: +46 563 601 75 (ATS), +46 563 603 68 E-mail: ats.hagfors@acr-sweden.se, flygplats@hagfors.se IFR traffic is only allowed when ATS is open.

ESOH 2.3 OPERATIONAL HOURS

1. AD operator	O/R
AD Operating hours	H24
2. Customs and immigration	-
3. Health and sanitation	-
4. AIS Briefing Office	FPC, H24, +46 8 797 63 40, www.lfv.se/fpc
5. ATS Reporting Office (ARO)	As ATS
6. MET Briefing Office	FPC, H24, +46 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 +46 563 603 68
9. Handling	O/R
10. Security	-
11. De-Icing	O/R
12. Remarks	Increased charges outside AFIS and AD Operator hours

ESOH 2.4 HANDLING SERVICES AND FACILITIES

1. Cargo-handling facilities	-
2. Fuel and oil types	Fuel: 100LL, Jet A1 Oil: -
3. Fuelling facilities and capacity	100LL: 10 000 l Jet A1: 20 000 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 | O/R TEL +46 563 603 68 or flygplats@hagfors.se |
| 4. Medical facilities | In Hagfors |
| 5. Bank and Post Office | Bank: In Hagfors
Post: 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 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

- | | |
|--------------------------------------------------------|-----------------------------------------------------|
| 1. Types of clearing equipment | Snowploughs, sweepers, blowers, slingers, spreaders |
| 2. Clearance priorities | RWY, Emergency access road, TWY, Apron |
| 3. Use of material for movement area surface treatment | RWY, TWY and Apron de-iced with SAND/UREA. |
| 4. Specially prepared winter runways | - |
| 5. Remarks | No clearing SAT, SUN and HOL. |

ESOH 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS 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 guide 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: 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	Markings/ Type, colour
a	b	c	d	e
ESOH1	POLE	600044.9N 0133447.2E	473 ft / -	-
ESOH2	VEGETATION	600044.1N 0133440.6E	484 ft / -	-
ESOH3	VEGETATION	600042.9N 0133453.7E	487 ft / -	-
ESOH4	TREE	600042.3N 0133453.9E	488 ft / -	-
ESOH5	TREE	600041.8N 0133440.5E	508 ft / -	-
ESOH6	TREE	600041.6N 0133440.8E	513 ft / -	-
ESOH7	VEGETATION	600143.8N 0133447.4E	488 ft / -	-
ESOH8	VEGETATION	600144.3N 0133446.1E	489 ft / -	-
ESOH9	VEGETATION	600146.1N 0133432.3E	492 ft / -	-
ESOH10	VEGETATION	600148.5N 0133433.0E	495 ft / -	-
ESOH11	TREE	600155.7N 0133448.2E	510 ft / -	-
ESOH12	TREE	600202.6N 0133449.1E	547 ft / -	-
ESOH13	TREE	600203.6N 0133448.6E	558 ft / -	-
ESOH14	TREE	600204.4N 0133447.1E	564 ft / -	-
ESOH15	TREE	600204.5N 0133446.7E	564 ft / -	-
ESOH16	TREE	600211.8N 0133443.0E	574 ft / -	-
ESOH17	TREE	600215.0N 0133441.6E	580 ft / -	-
ESOH18	TREE	600218.6N 0133424.1E	590 ft / -	-
f Remarks: -				

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

ESOH 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 | TAF not produced |
| Periods of validity, interval of issuance | |
| 4. Trend forecast | - |
| Interval of issuance | |
| 5. Briefing/consultation provided | FPC H24, +46 8 797 63 40, www.lfv.se/fpc |
| 6. Flight documentation | METAR, SIGMET, Upper air winds |
| Language(s) used | 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	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°	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°	1508 x 30	PCN 25/F/B/X/T ASPH	600047.91N 0133446.87E GUND 102 ft	THR 469 ft
Designations RWY NR	Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	RESA dimensions (m)
1	7	8	9	10	11
18	See ESOH AOC	-	-	1628 x 280	-
36	See ESOH AOC	-	-	1628 x 280	-
Designations RWY NR	Location/ description of arresting system	OFZ (Yes/No)	Remarks		
1	12	13	14		
18	-	-	-		
36	-	-	-		

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	CAT I 900 M LIL/LIH	Green	PAPI Left side/3.00° 50 ft	-	-	1508/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
36	-	Green	PAPI Left side/3.00° 22 ft	-	-	1508/60 M White Caution zone 600 m yellow LIL/LIH	Red	-
10 Remarks: RWY 18: Barrette CL								

ESOH 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

- | | |
|-------------------------------------------------------------|-------------------------------------------------|
| 1. ABN/IBN location, characteristics and hours of operation | - |
| 2. LDI location and LGT | Lighted windsock S apron, windsocks at RWY ends |
| Anemometer location and LGT | At PAPI RWY 18 |
| 3. TWY edge and centre line lighting | Edge: 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 to point
of origin. |
| 2. Vertical limits | HAGFORS TIZ/RMZ <u>1000 ft GND</u>
GND |
| 3. Airspace classification | G |
| 4. ATS unit call sign
Language(s) | HAGFORS INFORMATION
Swedish/English |
| 5. Transition altitude | 5000 ft AMSL |
| 6. Hours of applicability | TIZ/RMZ established during hours of AFIS. |
| 7. Remarks | Continuous two-way radiocommunication required in TIZ/RMZ. |

ESOH 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channels	Hours of operation	Remarks
1	2	3	4	5
AFIS	HAGFORS INFORMATION	122.230	HO	-
		121.500	HO	-

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	Service volume radius from GBAS reference point	Remarks
1	2	3	4	5	6	7	8
LOC 18 ILS CAT I (5° E 2020)	IHF	110.10 MHz	H24	600042.9N 0133447.5E	-	-	155 m beyond THR 36 ILS Class I/D/2

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	Service volume radius from GBAS reference point	Remarks
1	2	3	4	5	6	7	8
GP 18	-	334.40 MHz	H24	600125.7N 0133434.4E	-	-	Angle 3.00° 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 FLYGPLATSFÖRESKRIFTER

ESOH 2.20 LOCAL AERODROME REGULATIONS

1. ESOH IAC: NDB RWY 36 och AB väntläge får användas efter tillstånd från ESOK ATS.

1. ESOH IAC: NDB RWY 36 and AB holding is available with prior permission from ESOK ATS.

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.

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. För start utanför ATS öppethållning ska avsikt att starta samt tid till start tydligt aviseras på kanalen för Hagfors AFIS.

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 BULLERREDUCERANDE FÖRFARANDE

ESOH 2.21 NOISE ABATEMENT PROCEDURES

1. Överflygning av Råda samhälle (SE RWY 18) och Uddeholm samhälle bör undvikas.

1. Overflying Råda (SE end RWY 18) and Uddeholm should be avoided.

2. Upprepade studs-och-gå är förbjudet mellan 2100-0500 (2000-0400).

2. Repeated touch-and-go landings are prohibited between 2100-0500 (2000-0400).

ESOH 2.22 FLYGPROCEDURER

ESOH 2.22 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 TILLÄGGSINFORMATION

ESOH 2.23 ADDITIONAL INFORMATION

1. Nya flygoperatörer vid Hagfors flygplats med luftfartyg tillhörande referenskodsiffran 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 flygplatsreferenskod 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 stigyten, övergångsytor och stråkytor

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.

5. Vändytorna bana 18/36 stängda för all trafik.

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.

5. Turning bay RWY 18/36 closed for all traffic.

ESOH 2.24 FLYGKARTOR AVSEENDE EN FLYGPLATS

<i>Charts</i>	<i>Pages</i>
Aerodrome Chart - ICAO	AD 2 ESOH 2 - 1
AOC - ICAO TYPE A RWY 18/36	AD 2 ESOH 3 - 1
IAC - ICAO ILS or LOC RWY 18	AD 2 ESOH 8 - 1
IAC - ICAO NDB RWY 18 (Cat A/B)	AD 2 ESOH 8 - 2
IAC - ICAO NDB RWY 36 (Cat A/B)	AD 2 ESOH 8 - 3
IAC - ICAO RNP RWY 18 (LPV, LNAV only)	AD 2 ESOH 8 - 5
IAC - ICAO RNP RWY 36	AD 2 ESOH 8 - 9
VAC - ICAO	AD 2 ESOH 9 - 1

ESOH 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

LIST OF WAYPOINTS AND SIGNIFICANT POINTS

See ESOH HAGFORS 4

ESOH 2.25 GENOMTRÄNGANDE AV YTAN FÖR VISUELLA SEGMENTET (VSS)

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ESOH 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

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