

AD 2 AERODROMES**ESGT 2.1 AERODROME LOCATION INDICATOR AND NAME****ESGT – TROLLHÄTTAN-VÄNERSBORG****ESGT 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|--|
| 1. | ARP coordinates and site at AD | 581905N 0122042E RWY centre point |
| 2. | Direction and distance from (city) | NE 2.9 NM from Trollhättan, S 3.8 NM from Vänersborg |
| 3. | Elevation/Reference temperature | 137 ft/+18.5°C |
| 4. | Geoid undulation at AD ELEV PSN | 114 ft |
| 5. | MAG VAR/Annual change | 3° E 2015/+0.1 increasing |
| 6. | Administration, address, telephone, fax, AFS | Trollhättan flygplats
SE-461 93 Trollhättan
TEL: +46 (0)520 825 00
FAX: +46 (0)520 838 17
E-mail: info@fyrstadsflyget.se
AFS: ESGTZTX
Website: www.fyrstadsflyget.se |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 2C |
| 8. | Remarks | - |

ESGT 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|---|
| 1. | AD Administration
AD Operating hours | As ATS
H24 |
| 2. | Customs and immigration | MON-SUN 0600-2000 (0500-1900) |
| 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 |

ESGT 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Available, forklift
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 15,000 l in fuelling truck, 100,000 l in store 100LL: 20,000 l
4.	De-icing facilities	Available, Type I and Type II
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	Available
7.	Remarks	Fuel supplier Air BP

ESGT 2.5 PASSENGER FACILITIES

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

ESGT 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 4 for scheduled traffic requiring, CAT 5 O/R
2.	Rescue equipment	By arrangement, municipal rescue service
3.	Capability for removal of disabled aircraft	By arrangement
4.	Remarks	-

ESGT 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Sweepers/blowers
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	Not cleared outside operational hours

ESGT 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron ASPH PCN 15 F/C/X/T
2.	Taxiway width, surface and strength	TWY M 15 m ASPH PCN 15 F/C/X/T TWY N 15 m ASPH PCN 15 F/C/X/T TWY S 6 m ASPH PCN 8 F/C/Y/T
3.	ACL, location and elevation	Apron 137 ft
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

ESGT 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 | TWY guide lines |
| 2. | RWY and TWY markings and LGT | RWY 15/33: Designator, THR, CL and edges are day marked. RTHL, REDL, RENL.

TWY M: CL, HLDG day marked. Edge lights and signs, RGL
N: CL, HLDG day marked. Edge lights and signs, RGL
S: CL, HLDG day marked. RGL |
| 3. | Stop bars | - |
| 4. | Remarks | - |

ESGT 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					

ESGT 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 | TROLLHÄTTAN-VÄNERSBORG TWR |
| 10. | Additional information (limitation of service, etc.) | Flight planning room available |

ESGT 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
15	146.07° GEO 143° MAG	1710 x 30	PCN 15 F/C/X/T ASPH	581927.23N 0122011.83E End RWY: 581841.37N 0122110.43E GUND 114 ft	THR 135 ft
33	326.09° GEO 323° MAG	1710 x 30	PCN 15 F/C/X/T ASPH	581847.00N 0122103.24E GUND 114 ft	THR 134.2 ft TDZ 134 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
15 See ESGT AOC	-	-	1830 x 150	-	-
33 See ESGT AOC	-	-	1830 x 150	-	THR 33 displaced 210 m

ESGT 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
15	1710	1710	1710	1710	-
33	1710	1710	1710	1500	-

ESGT 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
15	SALS 420 m LIL/LIH	Green	PAPI Left/3.00° (41.9 ft)	-	-	1710/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
33	Calvert CAT I 900 m LIL/LIH	Green	PAPI Left/3.00° (21.0 ft)	-	-	1710/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
10 Remarks: RWY 15: PCL LIL RWY on frequency 122.725 MHz for 5 SEC. RWY 33: PCL LIL RWY on frequency 122.725 MHz for 5 SEC.								

ESGT 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
- |
| 3. | TWY edge and centre line lighting | Edge: TWY M, N

CL: - |
| 4. | Secondary power supply/switch-over time | Available/ 1 sec |
| 5. | Remarks | - |

ESGT 2.16 HELICOPTER LANDING AREA

RWY 15/33 to be used

ESGT 2.17 ATS AIRSPACE

- | | | | |
|----|-----------------------------------|--------------------------------------|--|
| 1. | Designation and lateral limits | TROLLHÄTTAN CTR | 582849N 0121344E - 582440N 0122319E -
582225N 0122829E - 581136N 0123711E -
580828N 0122806E - 581631N 0121206E -
582604N 0120608E - 582849N 0121344E |
| 2. | Vertical limits | TROLLHÄTTAN CTR | 1500 ft AMSL
GND |
| 3. | Airspace classification | C | |
| 4. | ATS unit call sign
Language(s) | TROLLHÄTTAN TOWER | Swedish/English |
| 5. | Transition altitude | 5000 ft AMSL | |
| 6. | Remarks | CTR established during hours of TWR. | |

ESGT 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	TROLLHÄTTAN TOWER	122.725 MHz	HO	Primary FREQ
		121.500 MHz	HO	-

ESGT 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 15	FM	399 kHz	H24	582139.1N 0121724.0E		Range 15 NM
LOC 33 ILS CAT I (3° E 2015)	TRH	111.90 MHz	H24	581935.3N 0122001.5E		290 m beyond THR 15 ILS class I/D/2
GP		331.10 MHz	H24	581851.6N 0122049.2E		Angle 3.0° RDH 40 ft 250 m past THR 33 left side
OM				581547.3N 0122452.6E		-
MM				581816.7N 0122141.9E		-
L 33	PG	325 kHz	H24	581547.6N 0122452.1E		Range 15 NM

ESGT 2.20 LOKALA TRAFIKFÖRESKRIFTER

Högervarv tillämpas till grässtråk 15.

LOCAL TRAFFIC REGULATIONS

Right-hand traffic circuit applies for grass strip 15.

ESGT 2.21 MINSKNING AV BULLERSTÖRNING

1. Avgångar IFR RWY 15 och 33:
Stig rakt fram till 1500 ft AMSL innan sväng påbörjas.
2. APU får inte användas vid parkering vid andra tillfällen än då så krävs för motorstart eller för reglering av kabintemperatur. Därvid får APU startas tidigast 15 min före beräknad tid för taxning.
3. Reversering får endast användas med motorerna på tomgång vid landning mellan 2100-0500 (2000-0400) om detta ej krävs av säkerhetsskäl.
4. Provkörning av motorer får endast ske med ett flygplan åt gången.
Provkörning av motorer mellan 2100-0500 (2000-0400) får endast ske i samband med förestående start och inte med mer än ett flygplan åt gången.
5. Restriktioner för skol-och övningsflygning

Start och landningsövningar, TGL, med motorflygplan med MTOM lägre än 2000 kg samt avancerad flygning får endast utföras:
MON-FRI 0600-2100 (0500-2000)
SAT, SUN and HOL 0800-1600 (0700-1500).

Start och landningsövningar, TGL, med motorflygplan med MTOM lägre än 2000 kg samt avancerad flygning får inte utföras långfredagen, påskafton, annandag påsk, Kristi himmelsfärdsdag, pingstafton, pingstdagen, midsommarafton, midsommardagen, Alla Helgons dag, julafton, juldagen och annadag jul.

NOISE ABATEMENT PROCEDURES

1. IFR departures RWY 15 and 33:
Climb straight ahead to 1500 ft AMSL until turn is initiated.
2. APU must not be used on parking unless required for engine start or adjustment of cabin heat. On these occasions the APU may be started not earlier than 15 min before estimated time for taxiing.
3. IDLE REVERSE shall only be used for landing between 2100-0500 (2000-0400) unless otherwise is required for flight safety reasons.
4. Test running of engines may only be carried out with one aircraft at the same time.
Test running of engines between 2100-0500 (2000-0400) may only be carried out in connection with take-off and with no more than one aircraft at the same time.
5. Restrictions for school and training flights

Take-off and landing exercises, TGL, with aircraft with MTOM below 2000 kg and aerobatic flights are only permitted:
MON-FRI 0600-2100 (0500-2000)
SAT, SUN and HOL 0800-1600 (0700-1500).

Take-off and landing exercises, TGL, with aircraft with MTOM below 2000 kg and aerobatic flights are not permitted on Good Friday, Easter Eve, Easter Day, Ascension Day, Whitsun Eve, Whitsun Day, Midsummers Eve, Midsummers Day, All Saints Day, Christmas Eve, Christmas Day and Boxing Day.

ESGT 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
15	Climb straight ahead to MNM turning ALT 900 ft. Continue climb to appropriate MSA.	(CIO) Road Pylon	171 660	146°/1780 121°/6300
33	Climb straight ahead with MNM 350 ft/NM (5.7%) to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Terrain	312	320°/2700

2. Lågsiktsprocedurer (LVP) etablerade

2. Low visibility procedures (LVP) established

LVP träder i kraft när bansynvidden (RVR) är lägre än 600 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

LVP will be in force when RVR is below 600 m or when ceiling or vertical visibility is below 200 ft.

Meddelande om att LVP är i kraft lämnas av ATS.

The application of LVP will be announced by ATS.

När LVP tillämpas tillåts endast ett luftfartyg alternativt fordon inom manövreringsområdet.

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

3. VFR-flygning inom Trollhättan TMA/CTR

3. VFR flight within Trollhättan TMA/CTR

Normala in- och utpasseringspunkter
Se ESGT 6-1

Normal entry and exit points
See ESGT 6-1

Väntlägen
Se ESGT 6-1

Holdings
See ESGT 6-1

Avbrott i radioförbindelse
Se ESGT 6-1

Communication failure
See ESGT 6-1

ESGT 2.23 ÖVRIG INFORMATION**ADDITIONAL INFORMATION**

NIL

NIL

ESGT 2.24 TILLHÖRANDE KARTOR**RELATED CHARTS**

AD chart
AOC RWY 15/33
ATC Surveillance
Minimum ALT chart
IAC NDB+ILS 33
IAC NDB 33
IAC NDB 15
VAC

ESGT 2-1
ESGT-3-1
ESGT 4-91
ESGT-5-1
ESGT-5-2
ESGT-5-3
ESGT 6-1