

AD 2 AERODROMES**ESSD 2.1 AERODROME LOCATION INDICATOR AND NAME****ESSD – BORLÄNGE****ESSD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|---|
| 1. | ARP coordinates and site at AD | 602520N 0153054E RWY 1100 m in from THR 14 |
| 2. | Direction and distance from (city) | SSE 4 NM from Borlänge |
| 3. | Elevation/Reference temperature | 503 ft/+18.5°C |
| 4. | Geoid undulation at AD ELEV PSN | 95 ft |
| 5. | MAG VAR/Annual change | 4° E 2015/+0.1 increasing |
| 6. | Administration, address, telephone, fax, AFS | AB Dalaflyget
Överstevägen 50
SE-784 63 Borlänge
TEL: +46 (0)243 645 00
FAX: +46 (0)243 645 01
E-mail: bleinfo@dalaflyget.se
AFS: ESSDZTX
Website: dalaflyget.se |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 4C |
| 8. | Remarks | - |

ESSD 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|---|
| 1. | AD Administration
AD Operating hours | MON-FRI 0700-1500 (0600-1400)
H24 |
| 2. | Customs and immigration | CUST: O/R +46 (0)8 405 02 50
Immigration: MON-FRI 0600-1500 (0500-1400) |
| 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) | H24 |
| 6. | MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. | ATS | MON-THU 0500-1930 (0400-1830)
FRI 0500-1730 (0400-1630) |
| 8. | Fuelling | MON-THU 0500-1900 (0400-1800)
FRI 0500-1700 (0400-1600) |
| 9. | Handling | O/R |
| 10. | Security | O/R |
| 11. | De-Icing | O/R |
| 12. | Remarks | Increased charges outside TWR HR of OPS |

ESSD 2.4 HANDLING SERVICES AND FACILITIES

- | | | |
|----|--|---|
| 1. | Cargo-handling facilities | O/R |
| 2. | Fuel/oil types | Fuel Jet A1, 100LL
Oil - |
| 3. | Fuelling facilities/discharge capacity | Jet A1: 1 truck 23,000 l, 800 l/min
100LL: Stationary 8000 l |
| 4. | De-icing facilities | Available, Type I and II |
| 5. | Hangar space for visiting ACFT | - |
| 6. | Repair facilities for visiting ACFT | Available, light aircraft |
| 7. | Remarks | - |

ESSD 2.5 PASSENGER FACILITIES

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

ESSD 2.6 RESCUE AND FIRE FIGHTING SERVICES

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

ESSD 2.7 SEASONAL AVAILABILITY – CLEARING

- | | | |
|----|-----------------------------|--------------------------------|
| 1. | Types of clearing equipment | Snowploughs, blowers, sweepers |
| 2. | Clearance priorities | RWY, TWY, Apron |
| 3. | Remarks | - |

ESSD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

- | | | |
|----|-------------------------------------|--|
| 1. | Apron surface and strength | Apron ASPH PCN 50 F/B/X/U |
| 2. | Taxiway width, surface and strength | TWY A 23 m ASPH PCN 50 F/B/X/U
TWY B 8 m ASPH PCN -
TWY C 8 m ASPH PCN - |
| 3. | ACL, location and elevation | Apron 499 ft |
| 4. | VOR checkpoints | - |
| 5. | INS checkpoints | - |
| 6. | Remarks | - |

ESSD 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 14/32: Designator, THR, TDZ, CL and edges day marked RTHL, RENL and REDL

TWY A: CL, HLDG day marked. Edge LGT, RGL
B: CL, HLDG day marked. RGL
C: CL |
| 3. | Stop bars | - |
| 4. | Remarks | RWY 14/32: REDL located 4.5 m from RWY edge |

ESSD 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					

ESSD 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 | BORLÄNGE TWR |
| 10. | Additional information (limitation of service, etc.) | - |

ESSD 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
14	132.41° GEO 128° MAG	2313 x 45	PCN 36 F/B/X/T ASPH	602544.73N 0152959.51E GUND 96 ft	THR 503 ft
32	312.44° GEO 308° MAG	2313 x 45	PCN 36 F/B/X/T ASPH	602454.32N 0153151.09E GUND 95 ft	THR 492.4 ft TDZ 493 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
14 See ESSD AOC	-	-	2433 x 300	-	-
32 See ESSD AOC	-	-	2433 x 300	-	-

ESSD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
14	2313	2313	2313	2313	-
32	2313	2313	2313	2313	-

ESSD 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
14	SALS 420 m LIL/LIH	Green	PAPI Left/3.25° (65.2 ft)	-	-	2313/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
32	Calvert CAT I 900 m LIL/LIH	Green	PAPI Left/3.00° (60.7 ft)	-	-	2313/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks:	RWY 14: RWY 32:	PCL RWY LIL on frequency 127.300 MHz for 10 SEC. PCL RWY LIL on frequency 127.300 MHz for 10 SEC.
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ESSD 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 at RWY ends, no LGT, windsock NW apron, lighted
At RWY ends |
| 3. | TWY edge and centre line lighting | Edge: TWY A

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

ESSD 2.16 HELICOPTER LANDING AREA

RWY 14/32 to be used.

ESSD 2.17 ATS AIRSPACE

- | | | | |
|----|-----------------------------------|--------------------------------------|---|
| 1. | Designation and lateral limits | BORLÄNGE CTR | 603458N 0151749E - 602928N 0153754E -
602018N 0155249E - 601506N 0154349E -
602058N 0152254E - 603028N 0150919E -
603458N 0151749E |
| 2. | Vertical limits | BORLÄNGE CTR | <u>2500 ft AMSL</u>
GND |
| 3. | Airspace classification | C | |
| 4. | ATS unit call sign
Language(s) | BORLÄNGE TOWER
Swedish/English | |
| 5. | Transition altitude | 5000 ft AMSL | |
| 6. | Remarks | CTR established during hours of TWR. | |

ESSD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	BORLÄNGE TOWER	127.300 MHz	HO	Primary FREQ VDF
		121.500 MHz	HO	VDF

ESSD 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 14	BL	421 kHz	H24	602813.2N 0152429.9E		Range 15 NM
LOC 32 ILS CAT I (4° E 2015)	SD	109.50 MHz	H24	602552.8N 0152941.7E		369 m beyond THR 14 ILS Class I/E/2
GP		332.60 MHz	H24	602503.7N 0153140.5E		Angle 3.0° RDH 55 ft 315 m past THR 32 right side
OM				602223.7N 0153720.8E		-
MM				602432.7N 0153238.8E		-
L 32	LM	397 kHz	H24	602323.7N 0153504.9E		Range 15 NM
VOR/DME (4° E 2015)	BOR	117.60 MHz	H24	602517.4N 0153109.1E	518 ft	DME channel 123X Limited range of DME within sector 140°-290°

ESSD 2.20 LOKALA TRAFIKFÖRESKRIFTER

- Samtliga luftfartyg som avser operera till/från Borlänge flygplats skall vara utrustade med VHF-flygradioutrustning som medger dubbelriktad radioförbindelse på FREQ 127.300 MHz samt 121.500 MHz. Detta gäller även utanför ATS publicerad öppethållning.
- Klarering före uttaxning
Klarering för IFR-trafik lämnas vid begäran om start-up. Uppgift om transponderkod lämnas under uttaxning.
- Utanför TWR öppethållning skall trafikvarv flygas E RWY 14/32 tillämpas när flygning pågår på gräsbanan, RWY 12/30. RWY 12/30 är belägen W om banbörjan RWY 14.
- Högervarv tillämpas till gräsbanan, RWY 12.
- För information om bankondition på RWY 12/30 kontakta Borlänge Flygklubb TEL 0243 23 36 00.
- Efter start RWY 14 eller 32 skall lätta luftfartyg stiga rakt fram till MNM 500 ft GND innan sväng påbörjas, dock skall alltid bullerkänsligt område undvikas.
- PPR för all IFR skolflygning, TEL 0243 645 20.

LOCAL TRAFFIC REGULATIONS

- All aircraft operating to/from Borlänge aerodrome must be equipped with VHF-radio which allows two-way radio communication on FREQ 127.300 MHz and 121.500 MHz. This is mandatory also outside ATS HR of OPS.
- Clearance at gate
ATC clearance for IFR traffic will be delivered on request at start-up. Transponder code will be communicated during taxi.
- Outside TWR operational hours the traffic circuit shall be flown E of the main RWY when the grass RWY 12/30 is active. RWY12/30 situated W of the beginning RWY 14.
- Right hand traffic circuit to RWY 12.
- Information about runway conditions RWY 12/30 available from Borlänge Flygklubb TEL +46 (0)243 23 36 00.
- After take-off RWY 14 or 32 light aircraft shall climb straight ahead to MNM 500 ft GND before commencing turn. Noise-sensitive areas shall always be avoided.
- PPR for all IFR school flights TEL +46 (0)243 645 20.

ESSD 2.21 MINSKNING AV BULLERSTÖRNING

- För jetflygplan och flygplan med MTOM överstigande 7000 kg gäller att start RWY 32 och landning RWY 14 endast är tillåten om vind- eller trafikförhållanden så kräver.

NOISE ABATEMENT PROCEDURES

- For jet ACFT and ACFT with MTOM exceeding 7000 kg take-off RWY 32 and landing RWY 14 only permitted when wind or traffic conditions so require.

- | | |
|--|--|
| <p>2. För plan med MTOM överstigande 7000 kg gäller:</p> <p>a) Efter start RWY 14 stig rakt fram till BOR DME 10 innan vänstersväng påbörjas.</p> <p>b) Efter start RWY 32 får högersväng inte utföras.</p> <p>c) Avsteg från a) och b) ovan tillåts endast om vind- eller trafikförhållanden så kräver.</p> <p>3. Flygning över tätbebyggt område.</p> <p>a) Vid start och landning med lätta luftfartyg (< 2000 kg) skall sådana trafikvarv följas som innebär att tätbebyggda områden N RWY; Naglarby, Yttre Svärdsjö, Rommeholen, St.Tuna k:a, Långsjö, Västansjö, Skärsjö och Sörbo inte överflygs.</p> <p>b) Ovan angivna byar bör i övrigt inte överflygas under 2000 ft AMSL.</p> <p>4. Bullerkänsliga områden och byar finns publicerade på sid ESSD 6-1.</p> <p>5. För jetflygplan som utför upprepade start- och landningsövningar gäller att lägsta tillåtna trafikvarvshöjd är 1500 ft AMSL.</p> | <p>2. For ACFT with MTOM exceeding 7000 kg:</p> <p>a) After take-off RWY 14, climb straight ahead to BOR DME 10 before left hand turn is initiated</p> <p>b) After take-off RWY 32, right hand turn is not permitted.</p> <p>c) Deviation from a) and b) above is permitted when wind and traffic conditions so require.</p> <p>3. Flight over densely populated areas.</p> <p>a) On take-off and landing with light aircraft (< 2000 kg) a traffic circuit shall be followed that not causes overflight of built up areas N RWY, Naglarby, Yttre Svärdsjö, Rommeholen, St.Tuna k:a, Långsjö, Västansjö, Skärsjö and Sörbo.</p> <p>b) Overflight of above mentioned villages should be avoided below 2000 ft AMSL.</p> <p>4. Noise sensitive areas and villages are published on page ESSD 6-1.</p> <p>5. For jet aircraft making repeated take-off and landing practices a lowest altitude of 1500 ft AMSL in traffic circuit applies.</p> |
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ESSD 2.22 FLYGPROCEDURER

1. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
14	Climb straight ahead with MNM 325 ft/NM (5,3%) to MNM turning ALT 1600 ft. Continue climb to appropriate MSA.	Tree	1198	149°/7330
		Terrain	1165	148°/7375
		Tree	1195	149°/7390
		Tree	1019	145°/7740
		Tree	1071	144°/8705
		Antenna	2657	255°/20595
32	Climb straight ahead with MNM 280 ft/NM (4,5%) to MNM turning ALT 1600 ft. Continue climb to appropriate MSA.	Antenna	2657	261°/21945

2. Lågsiktsprocedurer (LVP)

Banor och tillhörande utrustning
Bana 14 och 32 är godkända för avgångstrafik när RVR underskrider 550 m.

Initiering och verkställande av LVP
ATC förbereder LVP när RVR underskrider 800 m och/eller molntäckeshöjd/vertikalsikten underskrider 300 ft. LVP träder i kraft när RVR underskrider 550 m.

Dagermarkering och belysning
Se ESSD-2-1

LVP beskrivning

- a) När RVR underskrider 550 m tillåts för avgångstrafik endast en rörelse åt gången, ett luftfartyg alternativt fordonstrafik.
- b) Luftfartygs rörelse på plattor får endast ske efter klarering från ATC.
- c) Väntläge taxibana A kan användas. Luftfartyg kommer bli instruerade att invänta taxiklarering på uppställningsplats i avvaktan på trafikavveckling.
- d) När RVR underskrider 550 m tillåts normalt endast ett luftfartyg åt gången att taxa. Fordon inom manöverområdet är ej tillåtet i samband med avgångstrafik. Undantag ges för fordon som utför mätning av RVR.
- e) In- och uttaxning till RWY 14/32 endast via TWY A.

3. VFR-flygning inom Borlänge TMA/CTR

Normala in- och utpasseringspunkter se ESSD 6-1

Väntlägen se ESSD 6-1

Avbrott i radioförbindelse se ESSD 6-1

2. Low visibility procedures (LVP)

Runways and equipment
Runway 14 and 32 is approved for departures in RVR conditions less than 550 m.

Initiation and termination of LVP
LVP operations will be prepared by ATC when RVR is below 800 m and/or ceiling/vertical visibility is below 300 ft. LVP will be in force when RVR is below 550 m.

Ground marking and lighting
See ESSD-2-1

Description of LVP

- a) Aircraft and vehicle movements will be restricted to one aircraft movement at a time while departures in RVR conditions less than 550 m are conducted
- b) Aircraft movements on aprons after clearance from ATC only.
- c) Holding point TWY A can be used. Normally aircraft will be instructed to hold on parking until no other aircraft- or vehicle movements is under way.
- d) Taxiing is normally restricted to one aircraft movement at a time. Vehicles on the maneuvering area are not permitted when departure operations in RVR conditions less than 550 m are in progress. Exception is made for vehicles manually measuring RVR.
- e) Entry and exit to RWY 14/32 is only permitted via TWY A.

3. VFR flight within Borlänge TMA/CTR

Normal entry and exit points see ESSD 6-1

Holdings see ESSD 6-1

Communication failure see ESSD 6-1

ESSD 2.23 ÖVRIG INFORMATION

Modellflygsektor SW gräsbanan upp till 1000 ft AGL.
Upprättad H24. Se ESSD-2-1.

ADDITIONAL INFORMATION

Model flying area SW grass strip up to 1000 ft AGL.
Established H24. See ESSD-2-1.

ESSD 2.24 TILLHÖRANDE KARTOR

AD chart	
AOC	RWY 14/32
Area Chart	
ATC Surveillance	
Minimum ALT chart	
IAC	ILS z or LOC z RWY 32
IAC	ILS y or LOC y RWY 32
IAC	VOR RWY 32
IAC	VOR z RWY 14
IAC	VOR y RWY 14
VAC	

RELATED CHARTS

ESSD 2-1
ESSD-3-1
ESSD 4-1

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