



ROYAL DANISH AIR FORCE
FLIGHT INFORMATION PUBLICATION



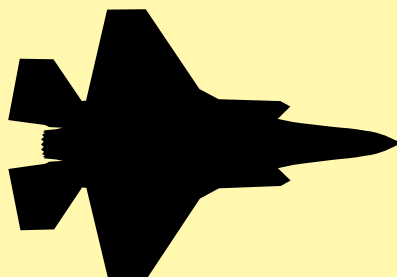
RDAF FLIP

INSTRUMENT APPROACH AND
DEPARTURE PROCEDURES

DENMARK AND ALTERNATE AERODROMES

SPECIAL EDITION FOR
FW SKRYDSTRUP

For Electronic Flight Bag
Touch anywhere on this page to continue



EFFECTIVE 06 AUG 2026
TO 30 SEP 2026

Published by
AIR COMMAND - MIL AIM
www.flv.dk/milaim

INDEX OF AERODROMES

AALBORG (EKYT)

ROSKILDE (EKRK)

AARHUS (EKAH)

BORNHOLM / RØNNE (EKRN)

BILLUND (EKBI)

SKRYDSTRUP (EKSP)

ESBJERG (EKEB)

STAUNING (EKVJ)

KARUP (EKKA)

SØNDERBORG (EKSB)

KASTRUP (EKCH)

ODENSE (EKOD)

ALTERNATES

LEGEND

MISCELLANEOUS

INDEX OF ALTERNATE AERODROMES

**GÖTEBORG/LANDVETTER
(ESGG)**

**KRISTIANSTAD OSTERLEN
(ESMK)**

MALMO STURUP (ESMS)

LEEUWARDEN (EHLW)

HALMSTAD (ESMT)

**ANGELHOLM HELSINGBORG
(ESTA)**

OSLO GARDERMOEN (ENGM)

**CUXHAVEN/NORDHOLZ
(ETMN)**

RYGGE AB (ENRY)

ROSTOCK-LAAGE (ETNL)

**SCHLESWIG-JAGEL AB
(ETNS)**

RONNEBY (ESDF)

WITTMUNDHAFEN AB (ETNT)



INDEX OF AERODROME CHARTS AND PROCEDURES

AERODROME PROCEDURE	PAGE	AERODROME PROCEDURE	PAGE
AALBORG (EKYT)		ILS or LOC RWY 04L	6-7
AD CHART	1-1	ILS or LOC RWY 04R	6-8
ILS or LOC RWY 08L	1-2	ILS or LOC RWY 22L	6-9
HPMA TACAN RWY 08L	1-4	ILS or LOC RWY 22R	6-10
TACAN RWY 08L (CAT C-E)	1-6	ILS or LOC RWY 12	6-11
ILS or LOC RWY 26R	1-9	ILS or LOC RWY 30	6-12
HPMA VORTAC RWY 26R	1-11	WP LIST	6-13
VORTAC RWY 26R	1-12		
AARHUS (EKAH)		ODENSE (EKOD)	
AD CHART	2-1	AD CHART	8-1
ILS or LOC RWY 10R	2-2	NOISE ABATEMENT (TEXT)	8-2
ILS or LOC RWY 28L	2-7	ILS or LOC RWY 24	8-5
BILLUND (EKBI)		ROSILDE (EKRK)	
AD CHART	3-1	AD CHART	9-1
BILLUND OPS	3-2	EKRK OPS (TEXT)	9-2
ILS or LOC Z RWY 09	3-3	EKRK NOISE ABATEMENT	9-4
ILS or LOC Y RWY 09	3-4	EKRK ARRIVAL (TEXT)	9-7
ILS or LOC Z RWY 27	3-7	EKRK DEPARTURE (TEXT)	9-9
ILS or LOC Y RWY 27	3-8	IFR DEP CHART (JET)	9-12
BILLUND ARRIVAL (TEXT)	3-11	ILS or LOC RWY 11 (CAT C-E)	9-17
SID RWY 09/27 (TEXT)	3-12	ILS or LOC RWY 21	9-24
SID RWY 09/27 (TEXT)	3-13		
SID RWY 09-RNAV (TEXT)	3-14	RØNNE (EKRN)	
SID RWY 09-RNAV CHART	3-15	AD CHART	10-1
SID RWY 27-RNAV (TEXT)	3-16	ILS or LOC RWY 11	10-2
SID RWY 27-RNAV CHART	3-17	HPMA TACAN RWY 11	10-4
		ILS or LOC RWY 29	10-7
ESBJERG (EKEB)		HPMA TACAN RWY 29	10-9
AD CHART	4-1	SKRYDSTRUP (EKSP)	
ILS or LOC Z RWY 08	4-2	AD CHART	13-1
ILS or LOC Y RWY 08	4-3	ILS or LOC RWY 10L	13-2
ILS or LOC Z RWY 26	4-6	ILS or LOC Z RWY 10L	13-4
ILS or LOC Y RWY 26	4-7	HPMA TACAN RWY 10L	13-5
KARUP (EKKA)		TACAN RWY 10L	13-6
AD CHART	5-1	ILS or LOC RWY 28R	13-9
ILS or LOC RWY 09R	5-2	ILS or LOC Z RWY 28R	13-11
HPMA TACAN RWY 09R	5-4	HPMA TACAN RWY 28R	13-12
ILS or LOC RWY 27L	5-8	TACAN RWY 28R	13-13
HPMA TACAN RWY 27L	5-10		
KASTRUP (EKCH)		STAUNING (EKVJ)	
AD CHART	6-1	AD CHART	14-1
F-16 PARKING POSITIONS	6-2	LOC RWY 27	14-3
KASTRUP OPS (TEXT)	6-3		
KASTRUP ARRIVAL (TEXT)	6-5	SØNDERBORG (EKSB)	
PRIMARY HOLDINGS	6-6	AD CHART	15-1
		ILS or LOC RWY 32	15-4

INDEX OF AERODROME CHARTS AND PROCEDURES

AERODROME PROCEDURE	PAGE	AERODROME PROCEDURE	PAGE
MISCELLANEOUS		RYGGE (ENRY)	
TERPS VS. PANS OPS	20-2	AD CHART	23-1
AIRCRAFT CATEGORIES/SPEEDS	20-6	SID EAST	23-2
HPMA CRITERIA	20-8	SID WEST	23-3
LANDING MINIMA EXPLANATION	20-9	TACAN RWY 12	23-4
COLD WEATHER ALT CORRECTION	20-11	HPMA ILS or LOC RWY 30	23-5
DECLARED DISTANCES	20-12	ILS M or LOC M RWY 30	23-6
ACN/PCN SYSTEM	20-13	TACAN RWY 30	23-7
ACR/PCR SYSTEM	20-15	NORDHOLZ (ETMN)	
NON-PA FLYING TECHNIQUES	20-17	AD CHART	25-1
APPROACH LIGHTING SYSTEMS	20-19	SID MN 108-126	25-2
SIDESTEP PROCEDURE	20-20	ILS or LOC RWY 08	25-3
RADIO NAVIGATION AIDS	20-21	TACAN RWY 08	25-4
NDB BEARING/DISTANCES	20-22	ILS or LOC RWY 26	25-5
VOR/TACAN BEARING/DISTANCES	20-23	TACAN RWY 26	25-6
LIST OF AERODROMES	20-24	LAAGE (ETNL)	
AERODROME BEARING/DISTANCE	20-25	AD CHART	26-1
FOREIGN ALTERNATES		DEP ETNL 1E – 1S	26-2
LEEWARDEN (EHLW)		DEP ETNL 1N	26-3
AD CHART	21-1	ILS or LOC Y RWY 09	26-4
SID LW1 RWY 23	21-2	ILS or LOC Z RWY 09	26-5
SID LW3 RWY 05	21-3	TACAN RWY 09	26-6
SID LW5 RWY 27	21-4	ILS or LOC Y RWY 27	26-7
SID LW7 RWY 09	21-5	ILS or LOC Z RWY 27	26-8
ILS or LOC RWY 05	21-6	TACAN RWY 27	26-9
HI-TACAN RWY 05	21-7	SCHLESWIG (ETNS)	
TACAN RWY 05	21-8	AD CHART	27-1
ILS or LOC RWY 09	21-9	SID ETNS 1A – 2B	27-2
HI-TACAN RWY 09	21-10	TACAN RWY 04	27-3
TACAN RWY 09	21-11	TACAN RWY 22	27-4
ILS or LOC RWY 23	21-12	WITTMUNDHAFEN (ETNT)	
HI-TACAN RWY 23	21-13	AD CHART	28-1
TACAN RWY 23	21-14	SID ETNT 1E – 2W	28-2
ILS or LOC RWY 27	21-15	TACAN RWY 07	28-3
HI-TACAN RWY 27	21-16	ILS or LOC RWY 25	28-4
TACAN RWY 27	21-17	TACAN RWY 25	28-5
GARDERMOEN (ENGM)			
AD CHART	22-1		
HPMA ILS or LOC RWY 01L	22-2		
HPMA ILS or LOC RWY 01R	22-3		
HPMA ILS or LOC RWY 19L	22-4		
HPMA ILS or LOC RWY 19R	22-5		

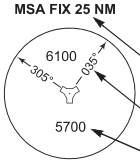
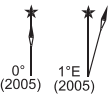
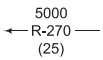
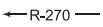
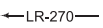
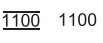
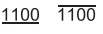
INDEX OF AERODROME CHARTS AND PROCEDURES

AERODROME PROCEDURE	PAGE	AERODROME PROCEDURE	PAGE
RONNEBY AB (ESDF)			
AD CHART	29-1		
ILS or LOC RWY 01.....	29-2		
PAR RWY 01.....	29-3		
ILS or LOC RWY 19.....	29-4		
PAR RWY 19.....	29-5		
WP LIST	29-6		
GÖTEBORG, LANDVETTER (ESGG)			
AD CHART	30-1		
ILS Z or LOC Z RWY 03	30-2		
ILS Z or LOC Z RWY 21	30-3		
KRISTIANSTAD (ESMK)			
AD CHART	31-1		
ILS or LOC RWY 19.....	31-2		
MALMO (ESMS)			
AD CHART	32-1		
ILS or LOC RWY 17.....	32-2		
ILS or LOC RWY 35.....	32-3		
HALMSTAD (ESMT)			
AD CHART	33-1		
ILS Z or LOC Z RWY 19	33-2		
ILS Y or LOC Y RWY 19	33-3		
ÄNGELHOLM (ESTA)			
AD CHART	34-1		
ILS Z or LOC Z RWY 14	34-2		
ILS Y or LOC Y RWY 14	34-3		

RDAF FLIP uses the same symbology as CENOR FLIP (See LEGEND-2 and LEGEND-3) with the following exceptions:

	Wind turbine - unlit	}	Replaces     where obstacles are in fact wind turbines.
	Group of wind turbines - unlit		
	Wind turbine - lit		
	Group of wind turbines - lit		
	Line of wind turbines - lit	}	Replaces     where obstacles are in fact wind turbines.
	Wind farm - lit		
	Exceptionally high obstacle - lit	}	Replaces  where an obstacle is 1000 ft AMSL or more)
	Highest obstacle within the Plan View Area		
	Para drop zone		
	Cities, towns, villages		
	Air traffic services Reporting Office (ARO)		
	Water aerodrome		
	ATS Service Boundary		
	Limit of manoeuvring area		
	Intermediate holding position		



	VOR		HIRTA (with obstruction unlighted)
	DME		HIRTA (with obstruction lighted)
	VOR/DME		HIRTA High intensity radio transmission area
	TACAN		Power Transmission Line
	VORTAC		Minimum Sector Altitude (MSA) 25NM radius
	NDB		Identification of Radio Navigational Facility
	VFR Reporting Point / Intersection On Request Fly-By		Sector Boundary
	VFR Reporting Point / Intersection Compulsory Fly-By		Minimum sector Altitude (MSA)
	VFR Reporting Point / Intersection On Request Fly-Over		Danger Area (ED-D) Restricted Area (ED-R) Prohibited Area (ED-P)
	VFR Reporting Point / Intersection Compulsory Fly-Over		
	Waypoint On Request Fly-By		Variation
	Waypoint Compulsory Fly-By		
	Waypoint On Request Fly-Over		International Border
	Waypoint Compulsory Fly-Over		FIR
	DME Mileage		Control Zone (CTR)
	Procedural Track		Not to Scale
	Minimum Level, Direction, Distance	000,000x	Frequency available on request Control Tower or ATIS operates non-continuously
	Radial	ATIS*	ARP
	Lead Radial		
	Mandatory Level / Recommended Level		Distance
	Minimum Level / Maximum Level		Night Low Flying System (Route Segment)
	Spot Elevation		Waypoint Designator
	Obstruction (unlighted)		Enroute Flight Altitude in ft MSL
	Group of Obstructions (unlighted)		Emergency Enroute Flight Altitude in ft MSL
	Obstruction (lighted)		
	Group of Obstructions (lighted)		
	HIRTA (no obstruction)		Initial Approach Fix
			Missed Approach

	Procedure Turn		VASIS / PAPI
	Final Approach Fix (FAF) (Non precision approaches)		Displaced Threshold
	Visual Descent Point (VDP)		INS Position
	Transition Route		Closed runway or taxiway
	Supplementary Route		Uni-directional / Bi-directional Cable The cables are displayed with regard to the direction of their arresting capabilities (uni-bi-directional) irrespective of flight operational restrictions.
	Profile Descent from Holding Pattern Radio Nav Facility Turns Missed Approach Point RWY		Net
	Final Approach Course from IAF to main Radio NavAid or ARP		Taxiway designation
	Standard Holding Pattern		ABN
	Holding Fix (If holding fix conform to IAF, IAF symbol is to be used.)		Helicopter Landing Area
	<u>GS 3.0°</u> TCH 35		Supervision office
	<u>Glide Slope in Degrees</u> Threshold Crossing Height		Wind sock (unlighted, lighted)
	Front Course		RWY (hard surface)
	Back Course		RWY (unpaved surface)
	Glide Slope		RWY (unpaved surface) with unpaved surface beyond RWY extremities
	MM		RWY (hard surface) with hard surface beyond RWY extremities
	OM		RWY (hard surface) with unpaved surface beyond RWY extremities
	General symbol for radio facilities		TWY or apron (hard surface)
	Radar reflector		Building

APPROACH LIGHTING SYSTEM

	Threshold (ALS no flashing lights)		Type of ALS unknown
	Threshold (ALS with flashing lights)		Example
	Lights on extended rwy center line 1 row		Example
	2 rows		
	3 rows or more		
	Crossbar		
	No ALS		

AALBORG (EKYT)

AERODROME CHART

ILS or LOC RWY 08L

ILS or LOC RWY 26R

HPMA TACAN RWY 08L

HPMA VORTAC RWY 26R

TACAN RWY 08L (CAT C-E)

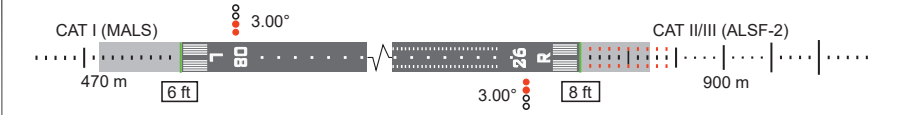
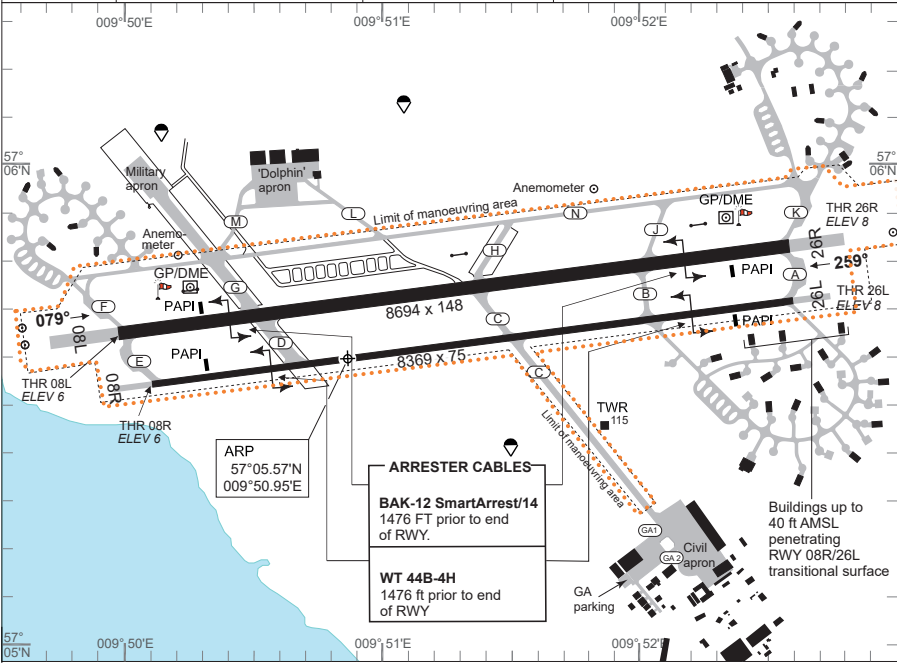
VORTAC RWY 26R



AERODROME CHART

AALBORG (EKYT)

AALBORG ATIS 120.480	AALBORG TOWER 353.525 118.305	AALBORG APPROACH 362.450 123.980	AD Admin and FPL: Email: woc@atwaal.dk
AD Elev 8	ARP 57°05.57'N 009°50.95'E	VAR 4°E (JAN 2023)	+45 728 46310



RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING						THR PSN
		PSN	TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE	END	
08L	66	E/F	8694	8694	9422	8694	6	LIH	3.00°		LIH	LIH	LIH	57°05.623'N 009°50.005'E
		D/G	6791	6791	7519									
		C/H	4002	4002	4730									
26R	F/D/W/T	A/K	8694	8694	9589	8694	8	LIH	3.00°	LIH	LIH	LIH	57°05.790'N 009°52.611'E	
		B/J	6791	6791	7686									
		C/H	4691	4691	5586									
08R	52	E	8369	8369	8861	8369	6	LIL	3.00°			LIL	LIL	57°05.515'N 009°50.128'E
26L	F/D/X/U	A	8369	8369	8861	8369	8	LIL	3.00°			LIL	LIL	57°05.675'N 009°52.634'E

Start-up clearance required for all aircraft, also for engine ground run.

Use of TWY N is only permitted for aircraft size up to and including C-130. Larger size aircraft will need specific clearance from Current OPS before using TWY N.

Standard Instrument Departures (SID) have not been established.

Omni-directional departures RWY 08L/R and 26R/L: Climb straight ahead to at least 600 FT MSL before turn is commenced.

MIPS	CIRCLING MINIMA (NORTH of aerodrome only)				
	A	B	C	D	E
510	-1.5 502 (600-1.5)	510 -1.6 502 (600-1.6)	690 -2.4 682 (700-2.4)	750 -3.6 742 (800-3.6)	840 -3.6 832 (900-3.6)

AERODROME CHART

AALBORG (EKYT)



MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 08L
AALBORG (EKYT)

Table with 4 columns: COPENHAGEN CONTROL, AALBORG ATIS, AALBORG APPROACH, AALBORG TOWER. Rows include frequencies, altitudes, and distances.

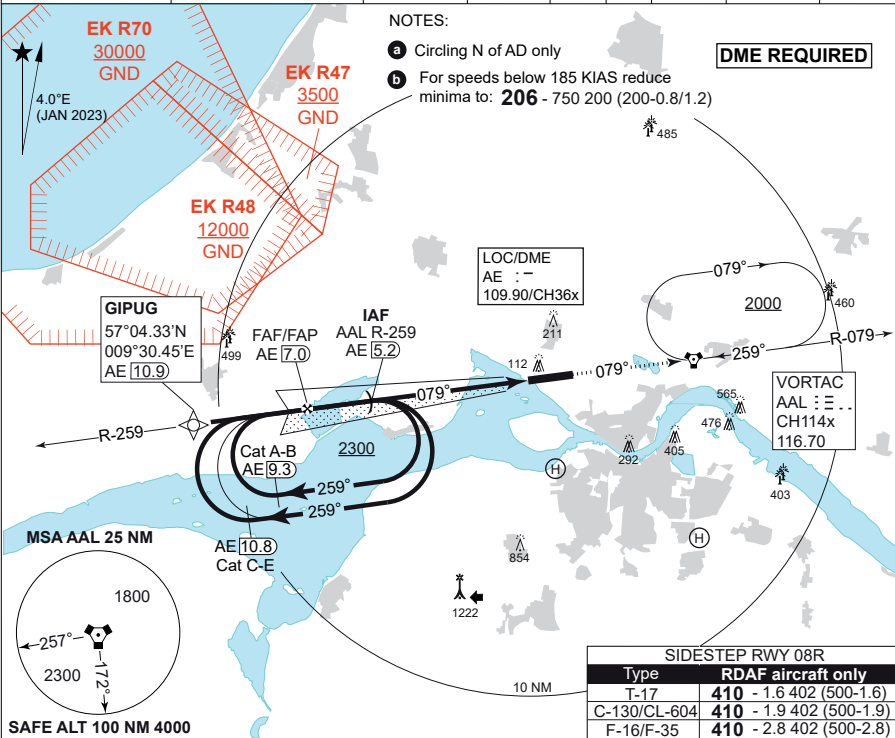


Table with 2 columns: TA 3000, GS 3.00°, RDH 54. Rows include various approach parameters.

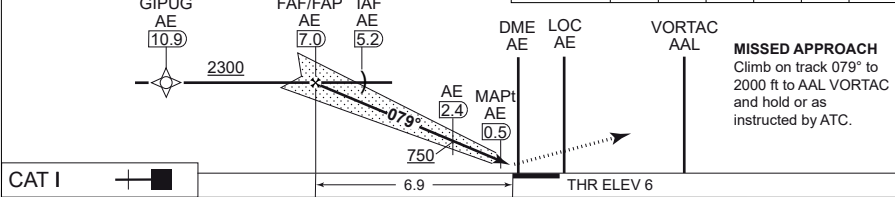


Table with 6 columns: CATEGORY, A, B, C, D, E. Rows include S-ILS CAT I 08L, S-LOC 08L, and CIRCLING.

ILS or LOC RWY 08L AALBORG (EKYT)

CHANGES: NEW AALBORG HOSPITALS BYEN HEIMS (PRIVATE HELIPAD) ADDED.

AIR COMMAND DENMARK - MIL AIRM 30 OCT 2025



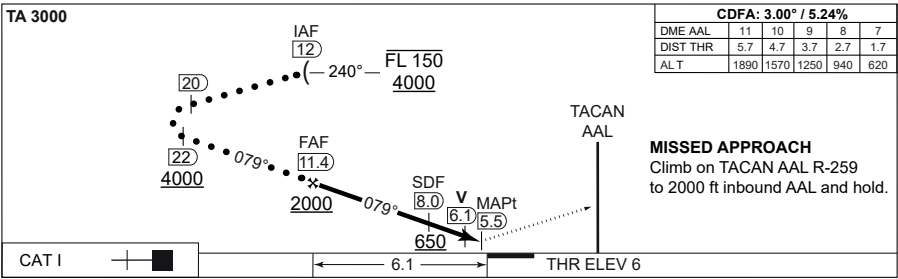
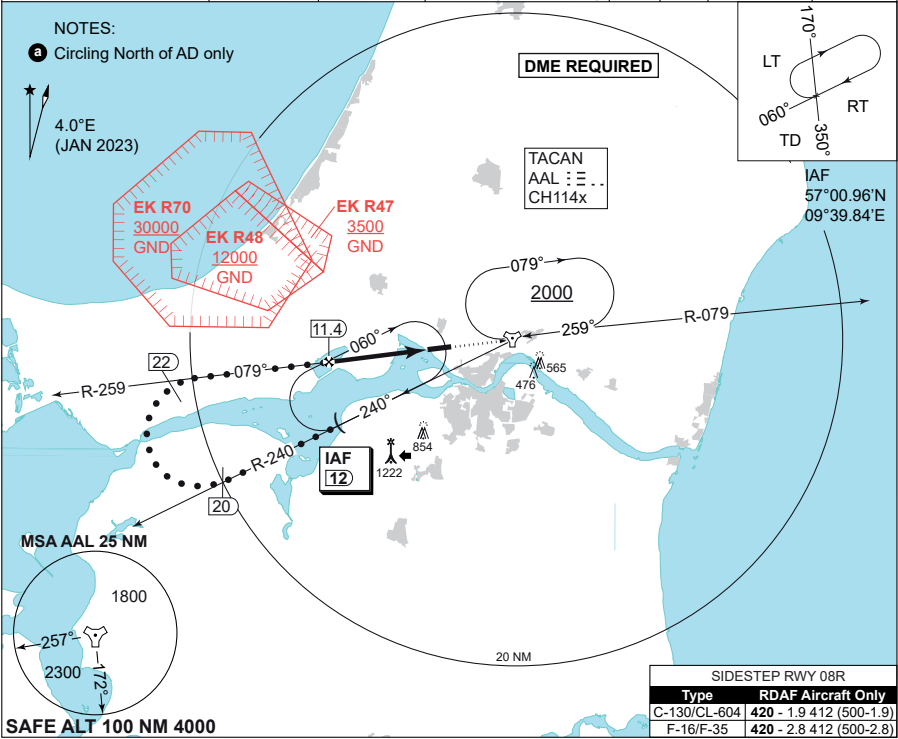
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 8

HPMA TACAN RWY 08L
AALBORG (EKYT)

COPENHAGEN CONTROL 242.650 124.555		AALBORG ATIS 120.480		AALBORG APPROACH 362.450 123.980		AALBORG TOWER 353.525 118.305	
TACAN AAL CH 114X	APP COURSE 079°	FAF ALT 2000 FT	DESCENT GR. 5.24% (318 FT/NM)	MDA 340	THR 6	ALS LENGTH 470 M	LDA 8694 FT



CATEGORY	HPMA
S-TACAN 08L	340 - 1100 332 (400-1.1/1.5)
CIRCLING a	560 - 3.2 552 (600-3.2)

HPMA TACAN RWY 08L

57°05.57'N
009°50.95'E
1-4

AALBORG (EKYT)



CHANGES: VORTAC CHANGED TO TACAN WITHOUT FREQUENCY.

AIR COMMAND DENMARK - MIL AIM 28 NOV 2024

INSTRUMENT APPROACH CHART

AD ELEV 8

4.0° E (JAN 2023)

EK R47 3500 GND

EK R48 12000 GND

EK R70 30000 GND

IAF AAL R-259 9.7 57°05.09'N 009°41.91'E

GIPUG 16 57°04.33'N 009°30.45'E

11.4

079°

259°

R-259

R-079

Racetrack Max. 230 KIAS

15.0

MSA AAL 25 NM

1800

257°

2300

SAFE ALT 100 NM 4000

TACAN AAL : E . . CH 114x

10 NM

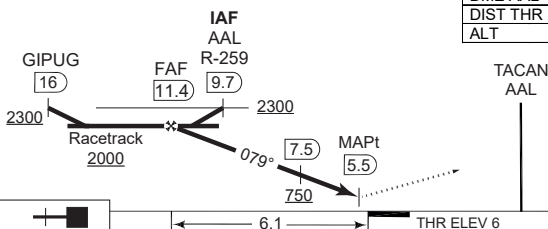
SIDESTEP RWY 08R

Type	RDAF aircraft only
C-130/CL-604	420 - 1.9 412 (500-1.9)
F-16/F-35	420 - 2.8 412 (500-2.8)

SIDESTEP RWY 08R	
Type	RDAF aircraft only
C-130/CL-604	420 - 1.9 412 (500-1.9)
F-16/F-35	420 - 2.8 412 (500-2.8)

TA 3000

CDFA 3.0° / 5.24%					
DME AAL	11	10	9	8	7
DIST THR	5.7	4.7	3.7	2.7	1.7
ALT	1890	1570	1250	940	620



MISSED APPROACH
Climb on TACAN AAL R-259
to 2000 ft inbound AAL and hold.

CAT I		6.1		THR ELEV 6	
CATEGORY	C	D	E		
S-TACAN 08L	340 -1100 332 (400-1.1/1.5)				
CIRCLING a	690 -2.4 682 (700-2.4)	750 -3.6 742 (800-3.6)	840 -3.6 832 (900-3.6)		

TACAN RWY 08L (CAT C-E)

57°05.57'N
009°50.95'E

AALBORG (EKYT)

1-6



MIPS

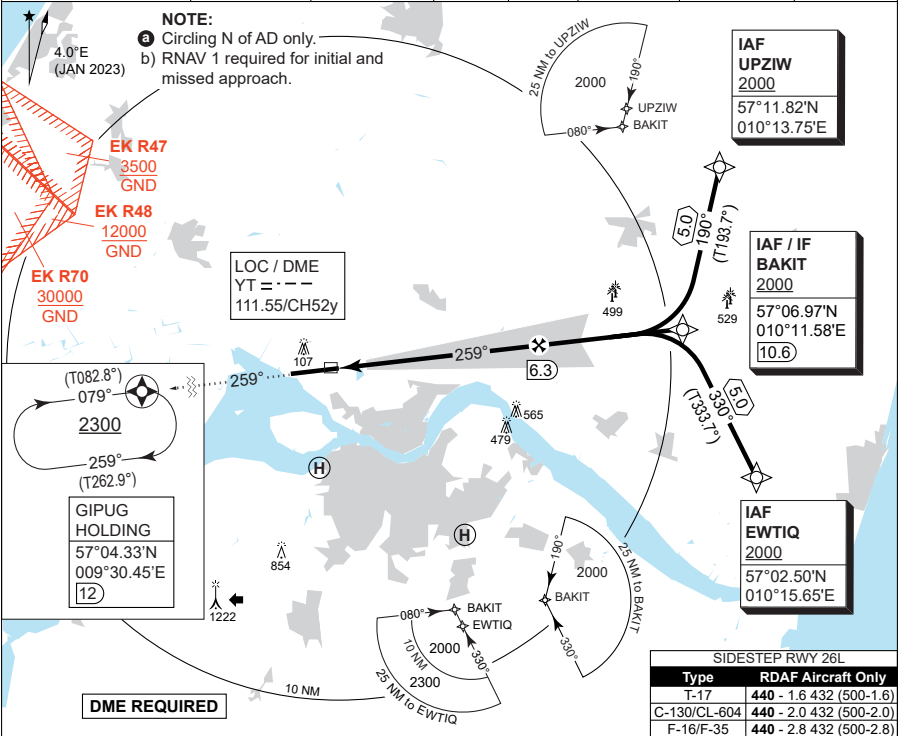
INSTRUMENT APPROACH CHART

AD ELEV 8

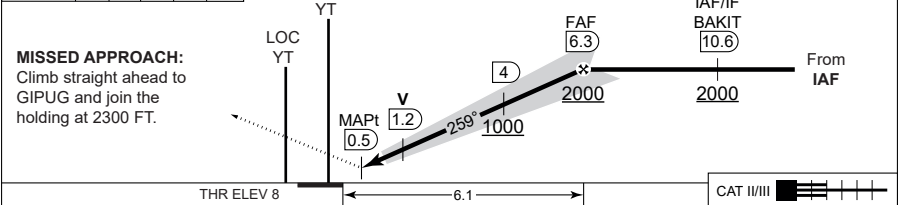
ILS or LOC RWY 26R

AALBORG (EKYT)

COPENHAGEN CONTROL 242.650 124.555		AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980		AALBORG TOWER 353.525 118.305	
LOC/DME YT 111.55/CH 52y		APP COURSE 259°	GS INCPT ALT 2000 FT	GS 3.00°	DA 208	THR ELEV 8
					ALS LENGTH 900 M	LDA 8694 FT



CDFA: 3.00° / 5.24%						
DME YT	2	3	4	5	6	
DIST THR	1.8	2.8	3.8	4.8	5.8	
ALT	640	960	1280	1600	1920	



CATEGORY	A	B	C	D	E
S-CAT I	208 - 550 200 (200-0.8/1.2)				
S-CAT II	RA 101 (DA 108) - 350 100				N/A
S-LOC 26R	390 - 1100 382 (400-1.1/1.8)				
CIRCLING a	510 -1.5 502 (600-1.5)	510 -1.6 502 (600-1.6)	690 -2.4 682 (700-2.4)	750 -3.6 742 (800-3.6)	840 -3.6 832 (900-3.6)

ILS or LOC RWY 26R

57°05.57'N
009°50.95'E
1-9

AALBORG (EKYT)

CHANGES: NEW AALBORG HOSPITAL SBVEN HEMS (PRIVATE HELIPAD) ADDED.

AIR COMMAND DENMARK - MIL AIN 30 OCT 2025



MIPS

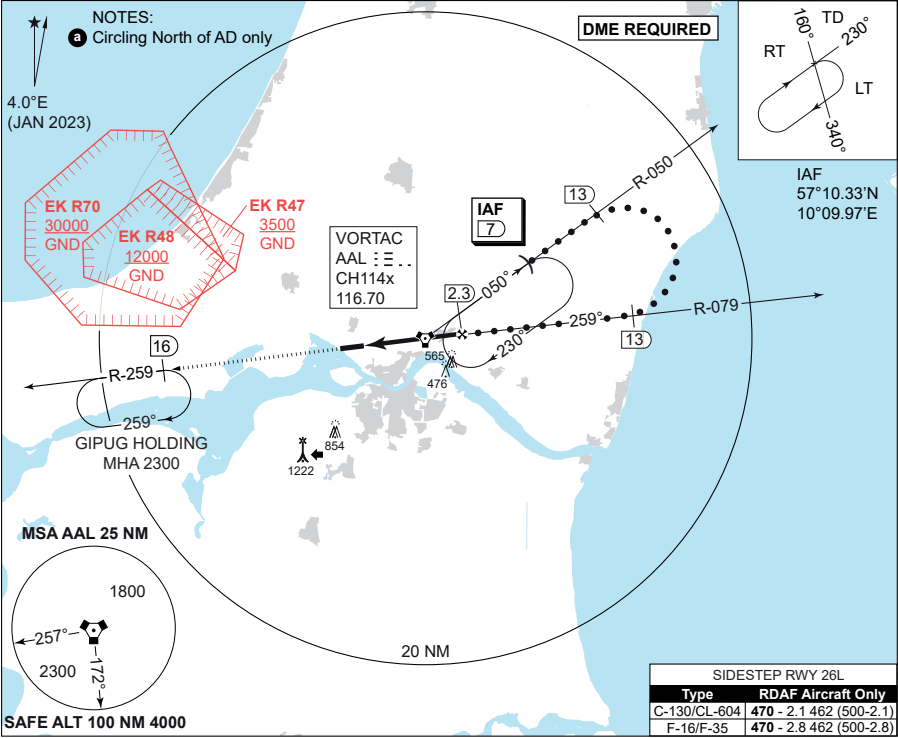
INSTRUMENT APPROACH CHART

AD ELEV 8

HPMA VORTAC RWY 26R

AALBORG (EKYT)

COPENHAGEN CONTROL 242.650 124.555		AALBORG ATIS 120.480		AALBORG APPROACH 362.450 123.980		AALBORG TOWER 353.525 118.305		
VORTAC AAL 116.70/CH 114X		APP COURSE 259°	FAF ALT 2000 FT	DESCENT GR. 5.24% (318 FT/NM)	MDA 420	THR 8	ALS LENGTH 900 M	LDA 8694 FT



CHANGES: PROCEDURE CHANGED FROM TERPS TO HPMA CRITERIA

AIR COMMAND DENMARK - MIL AIM 03 OCT 2024

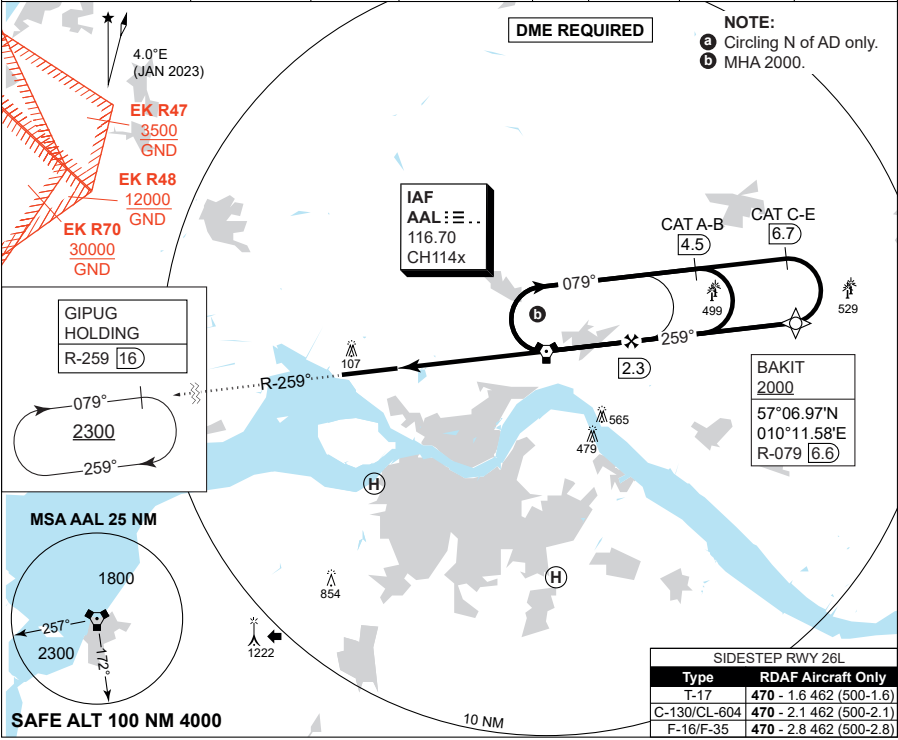
MIPS

INSTRUMENT APPROACH CHART

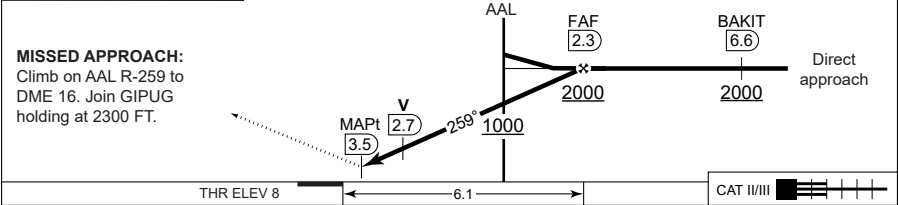
AD ELEV 8

VORTAC RWY 26R
AALBORG (EKYT)

COPENHAGEN CONTROL 242.650 124.555		AALBORG ATIS 120.480		AALBORG APPROACH 362.450 123.980		AALBORG TOWER 353.525 118.305	
VORTAC AAL 116.70/CH 114x	APP COURSE 259°	FAF ALT 2000 FT	DESCENT GR. 3.0° (5.24%)	MDA 420	THR ELEV 8	ALS LENGTH 900 M	LDA 8694 FT



CDFA: 3.00° / 5.24%						
DME AAL	2	1	0	1	2	
DIST THR	1.8	2.8	3.8	4.8	5.8	
ALT	640	960	1280	1600	1920	



CATEGORY	A	B	C	D	E
VORTAC 26R	420 - 1200 412 (500-1.2/1.9)				
CIRCLING a	510 -1.5 502 (600-1.5)	510 -1.6 502 (600-1.6)	690 -2.4 682 (700-2.4)	750 -3.6 742 (800-3.6)	840 -3.6 832 (900-3.6)

VORTAC RWY 26R

57°05.57'N
009°50.95'E
1-12

AALBORG (EKYT)



CHANGES: NEW AALBORG HOSPITAL SBVEN HEMS (PRIVATE HELIPAD) ADDED.

AIR COMMAND DENMARK - MIL AIN 30 OCT 2025

AARHUS (EKAH)

AERODROME CHART

ILS or LOC RWY 10R

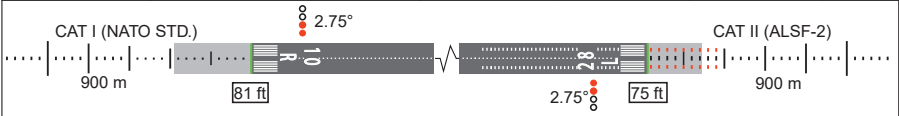
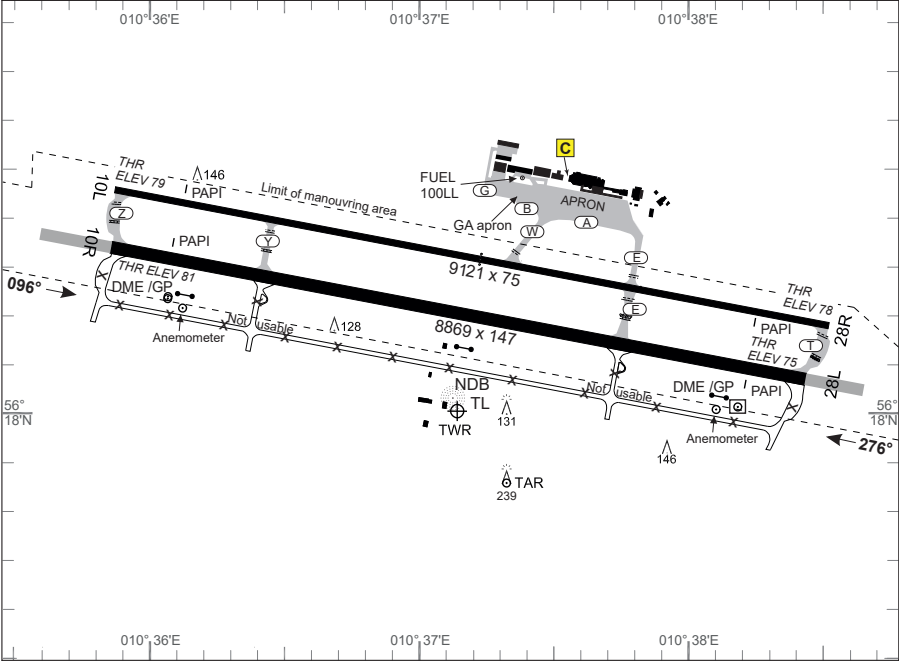
ILS or LOC 28L (CAT C-E)



AERODROME CHART

AARHUS (EKAH)

AARHUS ATIS 125.155	AARHUS TOWER 118.530	AARHUS APPROACH 119.280	Airport Office: 131.555 Tel.: +45 87 75 70 50 All departing flights must file a complete or abbreviated flight plan to Aarhus ARO before taxiing.
AD Elev 82	ARP 56°18.00'N 010°37.14'E	VAR 4.0°E (APR 2022)	



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING						THR PSN
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE	END	
10R	76/R/B/X/U	8869	9597	9597	8869	81	LIH	2.75°		LIH	LIH	LIH	56°18.33'N 010°35.86'E
28L		8869	9807	9807	8869	75	LIH	2.75°	LIH	LIH	LIH	LIH	56°18.07'N 010°38.43'E
10L	120/F/B/W/T	9121	9121	9121	9121	79	LIL	3.00°			LIL	LIL	56°18.45'N 010°35.87'E
28R		9121	9121	9121	9121	78	LIL	3.00°			LIL	LIL	56°18.18'N 010°38.52'E

Standard Instrument Departures (SID) have not been established.
Omnidirectional departures RWY 10R/L and 28L/R: Climb straight ahead to at least 700 FT MSL before turning.

MIPS		CIRCLING MINIMA							
A		B		C		D		E	
570	-1.5 488 (500-1.5)	680	-1.6 598 (600-1.6)	1060	-2.4 978 (1000-2.4)	1180	-3.6 1098 (1100-3.6)	1180	-3.6 1098 (1100-3.6)

AERODROME CHART

AARHUS (EKAH)

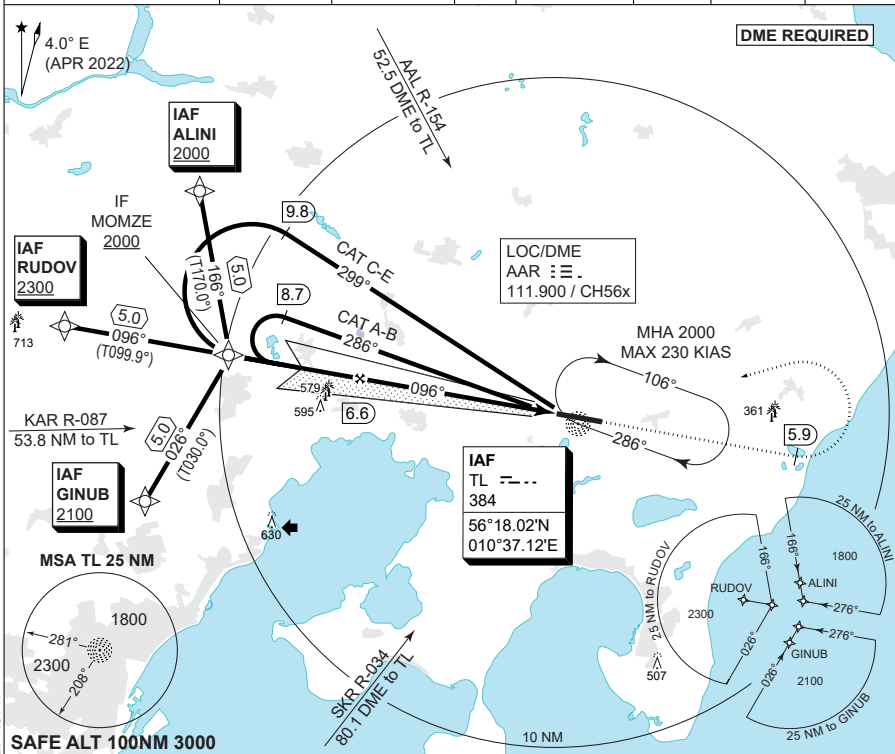


MIPS INSTRUMENT APPROACH CHART

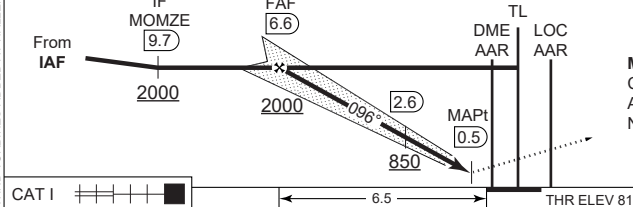
AD ELEV 82

ILS or LOC RWY 10R
AARHUS (EKAH)

COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 125.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
LOC/DME AAR 111.900/CH 56x	APP COURSE 096°	GS INTCTPT ALT 2000 FT	GS 2.75°	DA See CAT	THR ELEV 81	ALS 900 M	LDA 8869 FT



TA 3000
GS 2.75°
RDH 34



CDFA: 2.75° / 4.8%					
DME AAR	6	5	4	3	2
DIST THR	5.9	4.9	3.9	2.9	1.9
ALT	1840	1550	1260	960	670

MISSED APPROACH

Climb on track 096° to 2000 FT.
At DME AAR 5.9 turn left inbound
NDB TL and hold.

CATEGORY		A	B	C	D	E
MIPS	S-ILS 10R	281 - 550 200 (200-0.8/1.2)				
	S-LOC 10R	480 - 1100 398 (400-1.1/1.8)				
	CIRCLING	570 - 1.5 488 (500-1.5)	680 - 1.6 598 (600-1.6)	1060 - 2.4 978 (1000-2.4)	1180 - 3.6 1098 (1100-3.6)	1180 - 3.6 1098 (1100-3.6)

ILS or LOC RWY 10R

56°18.00'N
010°37.14'E

AARHUS (EKAH)

2-2



CHANGES: GRUOP OF LIT WIND TURBINES ADDED AT HALLENDRUP ELEV 713 FT.

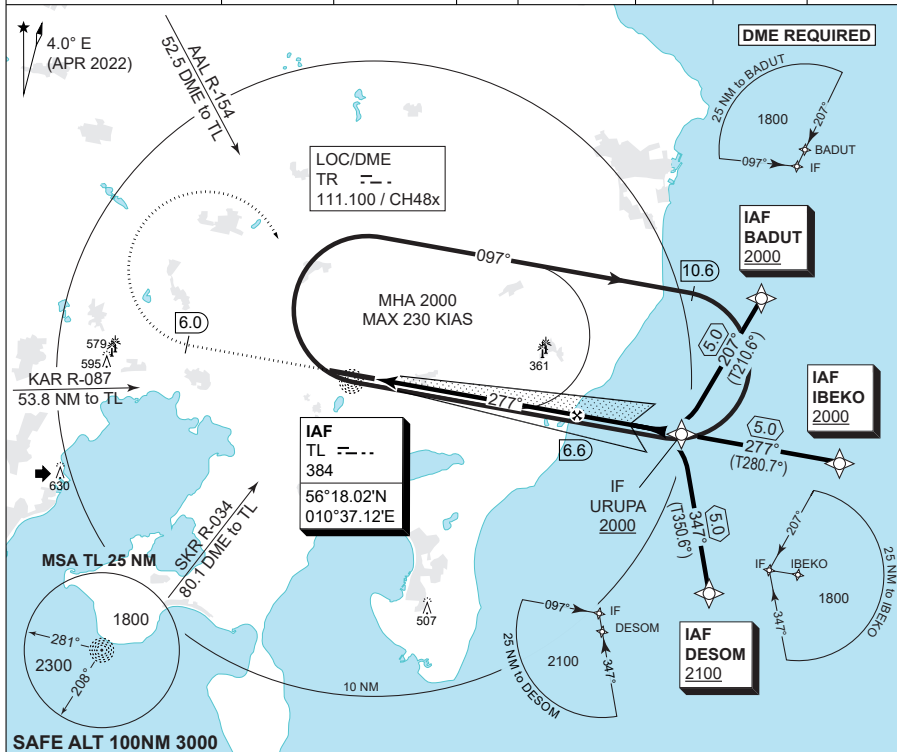
AIR COMMAND DENMARK - MIL AIM 19 FEB 2026

INSTRUMENT APPROACH CHART

AD ELEV 82

AARHUS (EKAH)

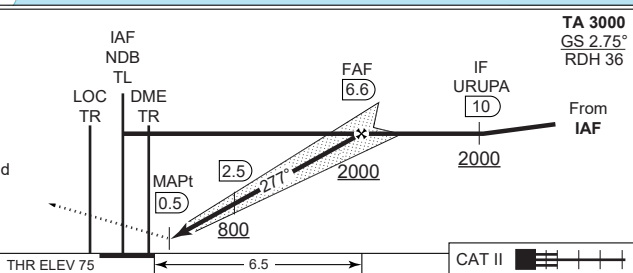
COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 125.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
LOC/DME TR 111.100/CH 48x	APP COURSE 277°	GS INTCTP ALT 2000 FT	GS 2.75°	DA 275	THR ELEV 75	ALS 900 M	LDA 8869 FT



CDFA: 2.75° / 4.8%					
DME AAR	2	3	4	5	6
DIST THR	1.9	2.9	3.9	4.9	5.9
ALT	670	960	1260	1550	1840

MISSED APPROACH

Climb on track 276° to 2000 FT.
At DME TR 6.0 turn right inbound
NDB TL and hold.



CATEGORY	C	D	E
S-ILS CAT I	275 - 550 200 (200-0.8/1.2)		
S-ILS CAT II	RA 99 (DA 175) - 350 100	N/A	
S-LOC 28L	480 - 1100 398 (400-1.1/1.8)		
CIRCLING	1060 - 2.4 978 (1000-2.4)	1180 - 3.6 1098 (1100-3.6)	1180 - 3.6 1098(1100-3.6)

ILS or LOC RWY 28L (CAT C-E)

56°18.00'N
010°37.14'E

AARHUS (EKAH)

2-7



CHANGES: ATIS FREQ. CHG.

AIR COMMAND DENMARK - MIL AIM 03 OCT 2024

BILLUND (EKBI)

AERODROME CHART

BILLUND OPS

ILS or LOC Z RWY 09

ILS or LOC Z RWY 27

ILS or LOC Y RWY 09

ILS or LOC Y RWY 27

BILLUND ARRIVAL

BILLUND DEPARTURE

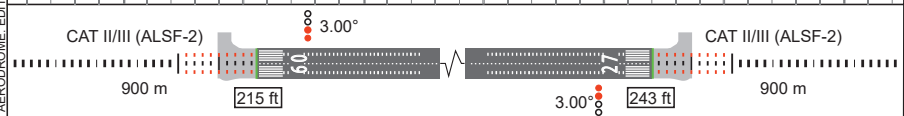
SID RWY 09 (TEXT)

SID RWY 27 (TEXT)

SID RWY 09 (CHART)

SID RWY 27 (CHART)



BILLUND (EKBI)

RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING						THR PSN		
		PSN	TORA	TODA	ASDA		LDA	THR	PAPI	TDZ	CL	EDGE		END	
09	110 F/A/X/T	D	10173	10173	10173	9681	215	LIH Green	3°	LIH White	LIH	LIH	LIH Red	55°44.39'N 009°08.09'E	
		A	9471	9471	9471										
		B	7709	7709	7709										
		F	7621	7621	7621										
		C	6669	6669	6669										
27		K	9681 O/R 10173	9681 O/R 10173	10173	9681	243	LIH Green	3°	LIH White	7200 ft White	500 ft Red	LIH Red		55°44.47'N 009°10.76'E
		M	7126	7126	7618										
		Y	5088	5088	5580										
		C	3438	3438	3930										
		B	2273	2273	2765										

Climb out for flights not cleared via an SID (MAX IAS 250 KT FL 60 and below):

RWY 09: For jet aeroplanes irrespective of weight and for propeller and turbo-propeller aeroplanes with MTOM above 5700kg:
Climb on track 082° MAG to INLIS or 1000 FT MSL whichever is later, then turn according to clearance. Minimum climb gradient 3.7% until passing 1000 FT.

RWY 09: For propeller and turbo propeller aeroplanes with MTOM 5700kg or less: Climb on track 082° MAG to 1000 FT MSL, then turn according clearance. Minimum climb gradient 3.7% until passing 1000 FT MSL.

RWY 27: All aeroplanes: Climb on track 262° MAG to DME LEL 1.0 NM or 700 FT MSL, whichever is later, then turn according to clearance.

MIPS	CIRCLING MINIMA (North of AD only)				
	A	B	C	D	E
800	-1.5 553 (600-1.5)	820 -1.6 573 (600-1.6)	1100 -2.4 853 (900-2.4)	1100 -3.6 853 (900-3.6)	1200 -3.6 953 (1000-3.6)

AERODROME CHART

BILLUND (EKBI)

BILLUND OPERATIONS**1. GROUND HANDLING (FIGHTER AIRCRAFT ONLY)**

- 1.1. Parking iaw. ATC instructions. F-35 expect to be parked on Apron South. F-35 to be parked on concrete only and with enough room to enable onward taxi out to the runway (no towbar available).
- 1.2. For F-35 JET-A/JET-A1 is characterized as "Restricted Fuel" iaw. FSD. RTB flight to be conducted as direct transit flight back to EKSP. Aircraft to be partially refueled iaw. RTB mission profile.
- 1.3. Billund Marshalls are familiar with "F-35 Ground Ladder" operation, but it is the pilot's responsibility to be familiar with, and be able to instruct civilian ground personnel in its operation, from the cockpit.



**ILS or LOC Z RWY 09
BILLUND (EKBI)**

CATEGORY		A	B	C	D	E
MIPS	S-ILS CAT I	415 - 550 200 (200-0.8/1.2)				475 - 600 260 (300-0.8/1.3)
	S-ILS CAT II	RA 102 (DA 315) - 350 100				N/A
	S-LOC 09	640 - 1300 425 (500-1.3/2.0)				
	CIRCLING 	800 - 1.5 553 (600-1.5)	820 - 1.6 573 (600-1.6)	1100 - 2.4 853 (900-2.4)	1100 - 3.6 853 (900-3.6)	1200 - 3.6 953 (1000-3.6)

BILLUND (EKBI)

MIPS
INSTRUMENT APPROACH CHART

ILS or LOC Y RWY 09
BILLUND (EKBI)

Table with 4 columns: COPENHAGEN CONTROL, BILLUND ATIS (ARR / DEP), BILLUND APPROACH, BILLUND TOWER (ARR / DEP). Rows include frequencies for LOC, DME, APP COURSE, GS, DA, THR ELEV, ALS LENGTH, and LDA.

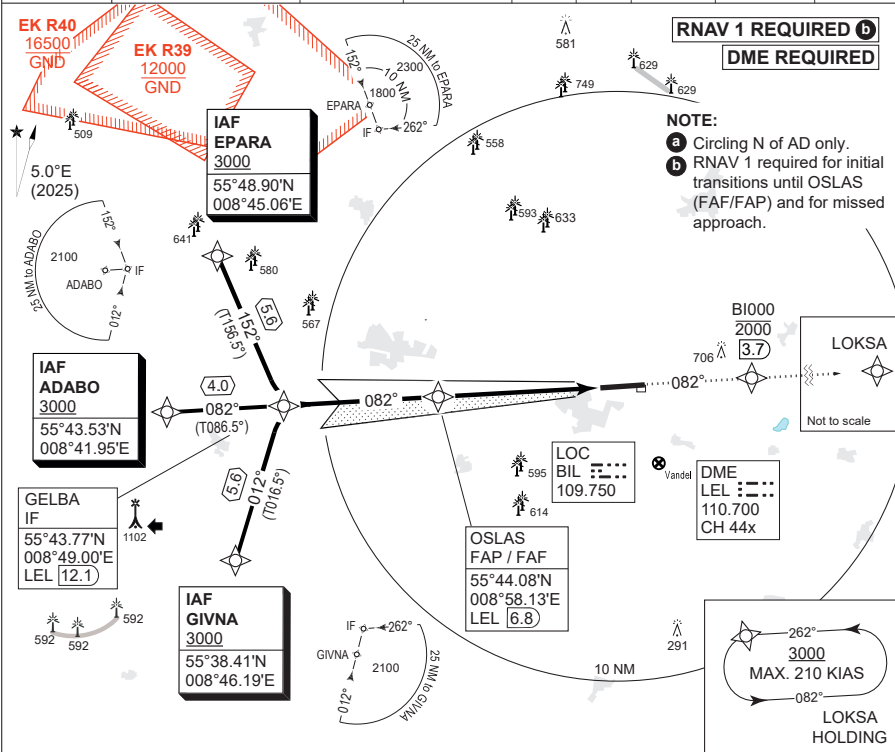


Table with 2 main sections: Left section contains TA 3000, GS 3.00°, RDH 50, and GELBA LEL 12.1. Right section contains a table for CDFAs (GS 3.00° / 5.24% / 318 ft/NM) with columns for DME BIL, DIST THR, and ALT.

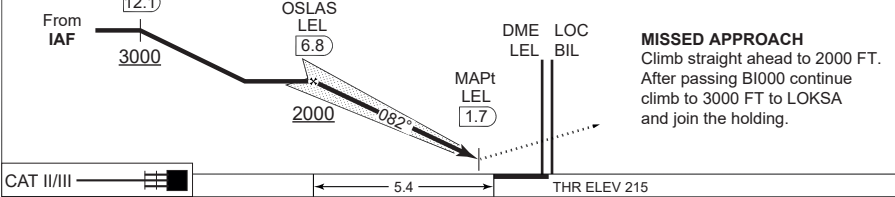


Table with 5 columns: CATEGORY, A, B, C, D, E. Rows include S-ILS CAT I, S-ILS CAT II, S-LOC 09, and CIRCLING (a) with associated altitudes and speeds.

ILS or LOC Y RWY 09 BILLUND (EKBI)

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL AIM 16 APR 2026



MIPS

INSTRUMENT APPROACH CHART

AD ELEV 246

ILS or LOC Z RWY 27
BILLUND (EKBI)

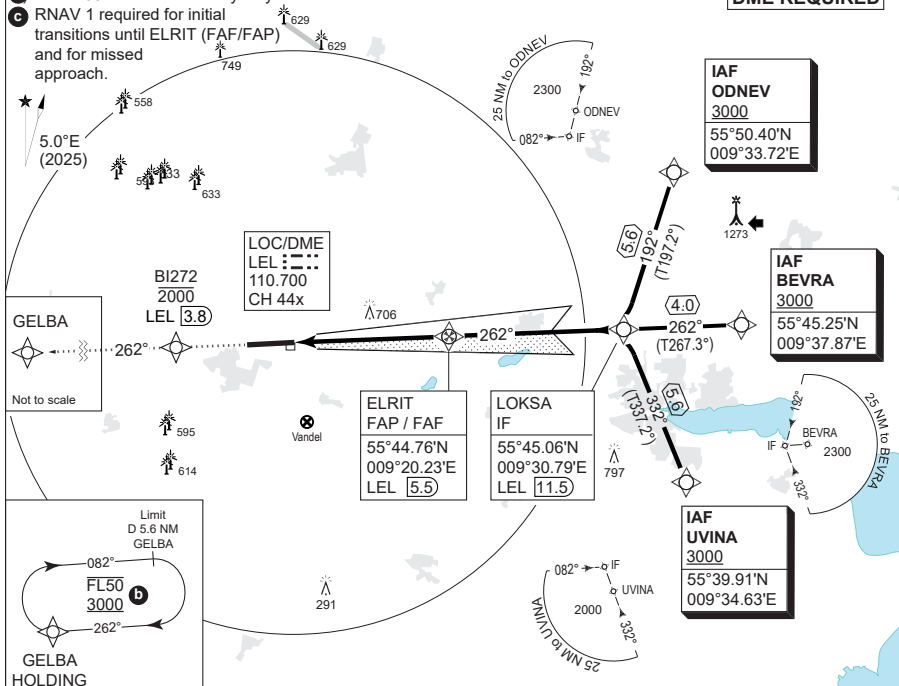
COPENHAGEN CONTROL 362.750 136.550	BILLUND ATIS (ARR / DEP) 118.780 129.105	BILLUND APPROACH 127.580	BILLUND TOWER (ARR / DEP) 119.005 129.505
LOC / DME LEL 110.700 / CH 44x	APP COURSE 262°	GS INTCP ALT 2000 FT	GS DA 3.00°
		SEE CAT	THR ELEV 243
			ALS LENGTH 900 M
			LDA 9681 FT

NOTE:

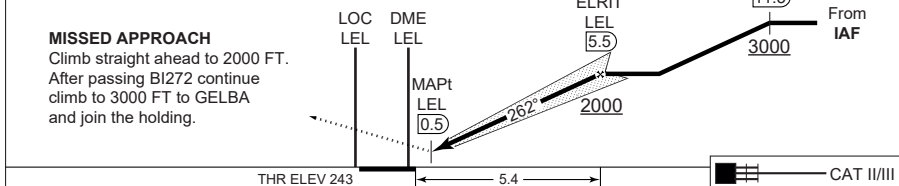
- a Circling N of AD only.
b Max. 195 KIAS. Direct entry only.
c RNAV 1 required for initial transitions until ELRIT (FAF/FAP) and for missed approach.

RNAV 1 REQUIRED

DME REQUIRED



CDFA: GS 3.00° / 5.24%				
DME LEL	2	3	4	5
DIST THR	1.8	2.8	3.8	4.8
ALT	870	1190	1510	1830



CATEGORY	A	B	C	D	E
S-ILS CAT I		444 - 550 200 (200-0.8/1.2)			479 - 550 235 (300-0.8/1.2)
S-ILS CAT II		RA 93 (DA 344) - 350 100			N/A
S-LOC 27		750 - 1600 503 (600-1.6/2.4)			
CIRCLING a	800 - 1.5 553 (600-1.5)	820 - 1.6 573 (600-1.6)	1100 - 2.4 853 (900-2.4)	1100 - 3.6 853 (900-3.6)	1200 - 3.6 953 (1000-3.6)

ILS or LOC Z RWY 27

55°44.42'N
009°09.11'E
3-7

BILLUND (EKBI)

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL AIM 16 APR 2026



MIPS

INSTRUMENT APPROACH CHART

AD ELEV 246

ILS or LOC Y RWY 27

BILLUND (EKBI)

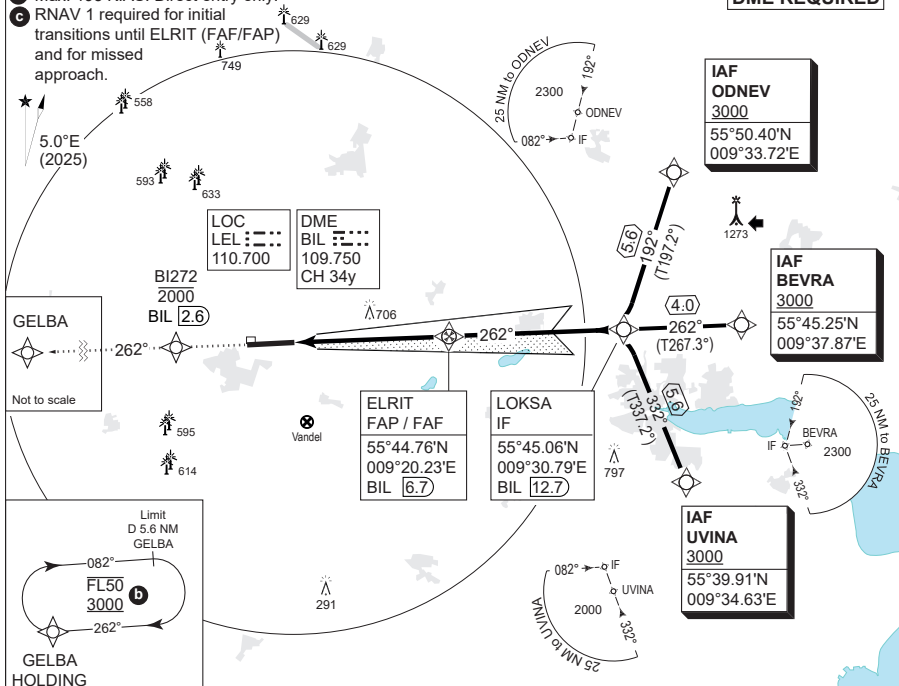
COPENHAGEN CONTROL 362.750 136.550		BILLUND ATIS (ARR / DEP) 118.780 129.105		BILLUND APPROACH 127.580		BILLUND TOWER (ARR / DEP) 119.005 129.505		
LOC LEL 110.700	DME BIL 109.750/CH 34v	APP COURSE 262°	GS INTC P ALT 2000 FT	GS 3.00°	DA SEE CAT	THR ELEV 243	ALS LENGTH 900 M	LDA 9681 FT

NOTE:

- a** Circling N of AD only.
b Max. 195 KIAS. Direct entry only.
c RNAV 1 required for initial transitions until ELRIT (FAF/FAP) and for missed approach.

RNAV 1 REQUIRED

DME REQUIRED

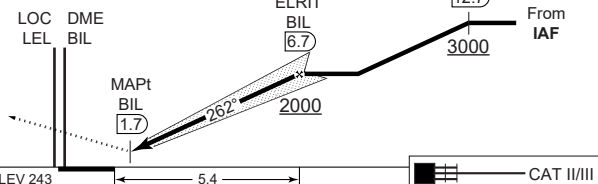


CDFA: GS 3.00° / 5.24%						
DME BIL	3	4	5	6		
DIST THR	1.6	2.6	3.6	4.6		
ALT	815	1130	1450	1770		

TA 3000
GS 3.00°
RDH 49

MISSED APPROACH

Climb straight ahead to 2000 FT.
After passing BI272 continue climb to 3000 FT to GELBA and join the holding.



THR ELEV 243

5.4

CAT II/III

CATEGORY	A	B	C	D	E
S-ILS CAT I		444 - 550 200 (200-0.8/1.2)			479 - 550 235 (300-0.8/1.2)
S-ILS CAT II		RA 93 (DA 344) - 350 100			N/A
S-LOC 27		750 - 1600 503 (600-1.6/2.4)			
CIRCLING a	800 - 1.5 553 (600-1.5)	820 - 1.6 573 (600-1.6)	1100 - 2.4 853 (900-2.4)	1100 - 3.6 853 (900-3.6)	1200 - 3.6 953 (1000-3.6)

ILS or LOC Y RWY 27

55°44.42'N
009°09.11'E
3-8

BILLUND (EKBI)

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL AIM 16 APR 2026



BILLUND ARRIVAL

Aircraft will normally be cleared by ACC KØBENHAVN to LOKSA or GELBA.

At first contact with BILLUND APPROACH state type of aircraft.

Speed limit: FL 60 and below: MAX IAS 250KT.

Radio communications failure.

Navigations aids designated for radio communication failure during IMC for arriving aircraft are:

- Fix OSLAS when RWY 09 is expected runway in use, and
- Fix ELRIT when RWY 27 is expected runway in use.

Precision approach. Category II/III operations.

The operations are subject to the following procedures and conditions:

a. ATC procedures.

The minimum distance between an aircraft on final approach on a CAT II / III ILS approach and any other preceding aircraft will for CAT II not be less than 5 NM and for CAT III not less than 8 NM. The separation must be established at the latest when preceding aircraft passes THR. Departing aircraft must have commenced take-off run, before arriving aircraft has left 2000 FT on final approach.

b. Pilot procedures.

Pilots who intend to fly a CAT II / III ILS approach are to use the following phrase: "Request Category II (or III) ILS approach runway XX (mention runway number)" Above mentioned request shall be made to COPENHAGEN CONTROL and confirmed on first contact with BILLUND APPROACH.

c. During final approach ATC will inform the pilot of following:

Change to secondary power supply for electronic and visual aids, if the aircraft has passed OSLAS BIL 5.6 NM for RWY 09 or ELRIT LEL 5.5 NM for RWY 27.

Reverse thrust.

Use of more than idle reverse thrust is allowed only for safety reasons.

Note: With respect to propeller and turboprop aeroplanes idle reverse refers to propeller in beta range and engine at idle power.



STANDARD INSTRUMENT DEPARTURE (SID) - RWY 09/27

- Squawk:** When instructed for line-up, squawk assigned SSR code.
- Communication:** Unless otherwise instructed remain on TWR FREQ until passing 1500 FT, then contact BILLUND APPROACH on 127.580 MHz.

1. IFR DEPARTURE

- 1.1 Departing traffic shall contact TWR on 129.505 prior to TOBT (Target Off Block Time) in order to obtain ATC clearance. Clearance is available from EOBT -30 min. At initial contact aircraft type and stand number shall be stated.
When RWY 09 is in use state preferred take-off position.
- 1.2 Standard Instrument Departures (SID):
Departing aircraft certified for P-RNAV operations will be assigned a PRNAV SID. Aircraft not certified for P-RNAV operations will be assigned a detailed departure clearance.
Clearance will be issued only when radar service is available.
Alternate SIDs ASKOV and GOKIM will be issued on ATC discretion.
- 1.3 If unable to follow P-RNAV SID, state inability at first contact with TWR to obtain alternate clearance.
- 1.4 Climb out for flights not cleared via an SID:
MAX IAS 250 KT FL60 and below.
- RWY 09: For jet aeroplanes irrespective of weight and for propeller and turboprop aeroplanes with MTOM above 5700 kg: Climb on track 082° MAG to INLIS or 1000 FT MSL whichever is later, then turn according to clearance.
Minimum climb gradient 3.7% until passing 1000 FT MSL.
- RWY 09: For propeller and turboprop aeroplanes with MTOM 5700 kg or less: Climb on track 082° MAG to 1000 FT MSL, then turn according to clearance.
Minimum climb gradient 3.7% until passing 1000 FT MSL.
- RWY 27: All aeroplanes: Climb on track 262° MAG to DME LEL 1.0 NM or 700 FT MSL, whichever is later, then turn according to clearance.
- 1.5 Aircraft requesting cruising level at or above FL 250 in HANNOVER UIR are advised to arrange the climb to be at or above FL 250 within 45 NM from EKBI. If unable advise BILLUND TOWER upon clearance request.

cont...

STANDARD INSTRUMENT DEPARTURE (SID) - RWY 09/27

1.6 Flight plan for international flights shall be filed via one of the SID termination points (RERPA, INTET, ABINO, RIDSI, ALS, MIKRO or BAMPI).

For BAMPI SID the following compulsory routing after BAMPI shall be included in the flight plan:

- Traffic via P992: BAMPI - P60 - NARBA - P992
- Traffic via P619: BAMPI - P60 - NAVIK - P619
- Traffic via P613: BAMPI - P60 - NUGLO - P613
- Traffic via L983: BAMPI - P60 - AMRAM - L983
- Traffic via N866: BAMPI - P60 - AMRAM - N866

1.7 Flight plan for flights with destination within COPENHAGEN AREA shall be filed via ABINO. Flight plan for other domestic flights may be filed DCT.



STANDARD INSTRUMENT DEPARTURE

Designator	Route (Tracks are magnetic)	After take off		
		Climb gradient	Climb to	Contact
RERPA 2B	On track 082° to 1000 FT- Left turn BI367 - RERPA	MIN due to obstacle: 3.7% (2.1°) to 1000 FT	FL 60 (or requested level if lower).	Remain on TWR FREQ until 1500 FT. Then contact Billund Approach 127.580 MHZ
INTET 2B	On track 082° to 1000FT- Left turn INTET			
ABINO 6B	On track 082° to 1000 FT - Left turn ABINO			
RIDSI 7B	ODFEX - Right turn RIDSI (No turn below 2000 FT)			
ALS 6B	ODFEX - Right turn ALS (No turn below 2000 FT)			
MIKRO 5B	ODFEX - Right turn MIKRO (No turn below 2000 FT)			
BAMPI 5B	On track 082° to 1000 FT - Left turn BI373 - BI372 - BAMPI			
GOKIM 4B*	ODFEX at 2000 FT or below - GOKIM		FL 80 (or req. level if lower)	

P-RNAV, RNAV 1, RNAV 2 or RNP 1 required

Squawk: When instructed for line-up, squawk assigned SSR-code.

Radar Vectoring: Radar vectoring will normally be provided by BILLUND APPROACH to expedite traffic.

Speed limit: FL 60 and below: MAX IAS 250 KT.

COM failure on BAMPI SID: Maintain FL60 or last assigned level until 10 NM after BAMPI.

Non P-RNAV equipped acft: At first contact with TWR state inability to follow SID.

Expect departure instructions by TWR.

Note: Noise limitations listed in AIP Denmark, chapter 21 "Noise Abatement Provisions", paragraph 2.2.

RMK: * GOKIM 4B SID is not flightplanable but only available on ATC discretion.

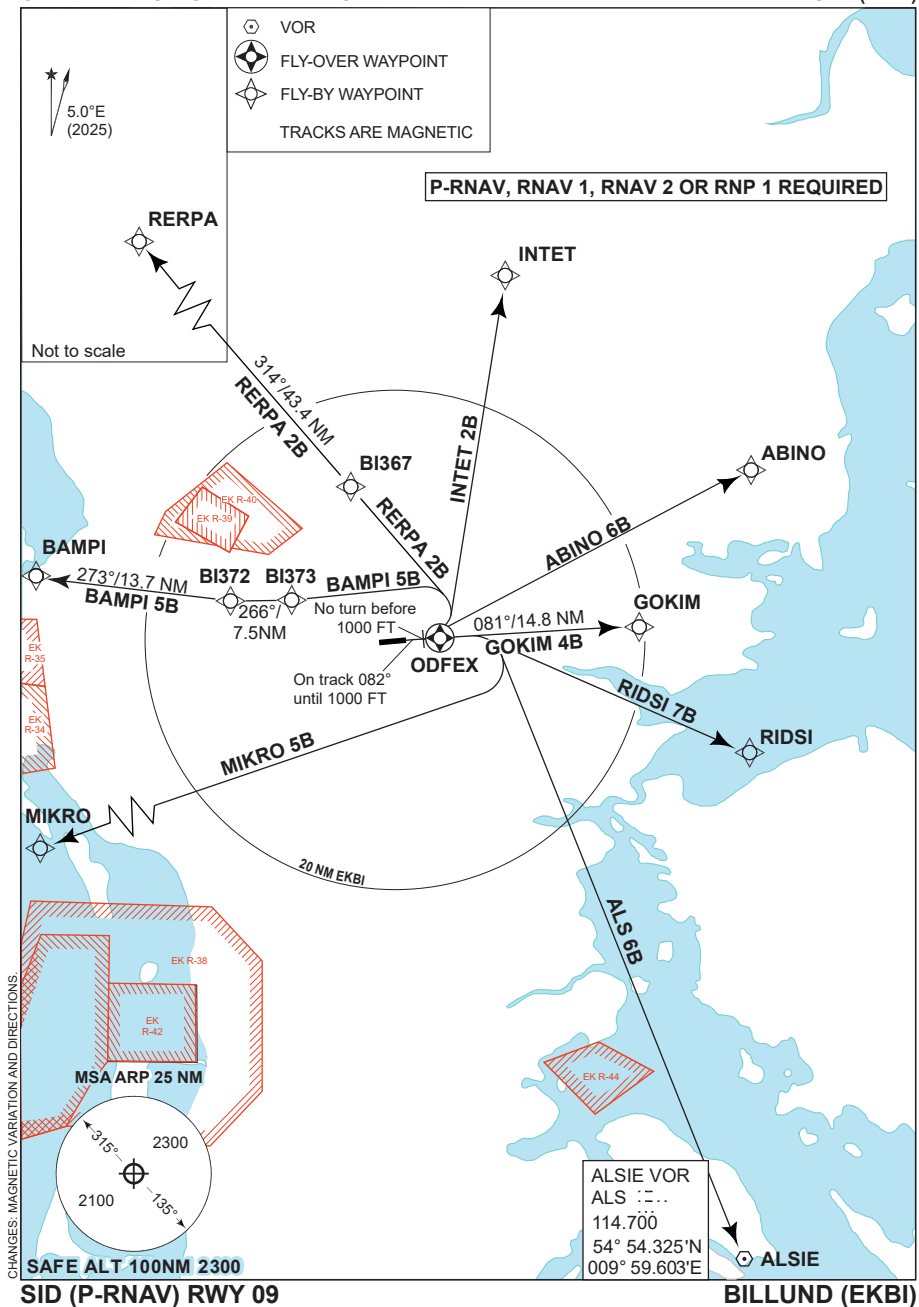
CPDLC available above FL100, including CTA. Crew should logon with EKDK before take-off.

Waypoint	Latitude	Longitude
ABINO	55° 58.100'N	009° 59.667'E
BAMPI	55° 50.574'N	008° 16.177'E
BI367	55° 56.384'N	009° 02.976'E
BI372	55° 48.638'N	008° 40.192'E
BI373	55° 48.540'N	008° 53.524'E
ODFEX	55° 44.622'N	009° 15.743'E
GOKIM	55° 45.527'N	009° 41.977'E
INTET	56° 13.578'N	009° 24.685'E
MIKRO	55° 24.905'N	008° 09.983'E
RERPA	56° 28.700'N	008° 11.250'E
RIDSI	55° 35.500'N	009° 59.650'E



STANDARD INSTRUMENT DEPARTURE CHART

SID (P-RNAV) RWY 09
BILLUND (EKBI)



SID (P-RNAV) RWY 09

BILLUND (EKBI)

STANDARD INSTRUMENT DEPARTURE

SID (P-RNAV) RWY 27 (TEXT) BILLUND (EKBI)

Designator	Route (Tracks are magnetic)	After take-off		
		Remark	Climb to	Contact
RERPA 2A	On track 262° to 700 FT - right turn BI367 - RERPA	No turn before DME LEL 1.0 NM	FL 60 (or requested level if lower)	Remain on TWR FREQ until 1500 FT. Then contact Billund Approach, 127.580 MHz
INTET 2A	On track 262° to 700 FT - right turn BI367 - INTET			
ABINO 6A	On track 262° to 700 FT - right turn BI364 - ABINO			
RIDSI 6A	On track 262° to 700 FT - right turn BI364 - RIDSI			
ALS 6A	On track 262° to 700 FT - right turn BI371 - left turn ALS			
MIKRO 5A	On track 262° to 700 FT - right turn BI371 - left turn MIKRO			
BAMPI 5A	On track 262° to 700 FT - right turn BI371 - left turn BI372 - BAMPI			
ASKOV 4A*	On track 262° to 700 FT - right turn BI371 at 2000 FT or below - left turn ASKOV		FL 80 (or req. level if lower)	

P-RNAV, RNAV 1, RNAV 2 or RNP 1 required

Squawk: When instructed for line-up, squawk assigned SSR-code.

Radar Vectoring: Radar vectoring will normally be provided by BILLUND APPROACH to expedite traffic.

Speed limit: FL 60 and below: MAX IAS 250 KT.

COM failure on BAMPI SID: Maintain FL60 or last assigned level until 10 NM after BAMPI.

Non P-RNAV equipped acft: At first contact with TWR state inability to follow SID.

Expect departure instructions by TWR.

Note: Noise limitations listed in AIP Denmark, chapter 21 "Noise Abatement Provisions", paragraph 2.2.

RMK: * ASKOV 4A SID is not flightplanable but only available on ATC discretion.

CPDLC available above FL100, including CTA. Crew should logon with EKDK before take-off.

Waypoint	Latitude	Longitude
ABINO	55° 58.100'N	009° 59.667'E
ASKOV	55° 42.393'N	008° 37.257'E
BAMPI	55° 50.574'N	008° 16.177'E
BI364	55° 52.612'N	009° 17.499'E
BI367	55° 56.385'N	009° 02.977'E
BI371	55° 47.228'N	009° 00.712'E
BI372	55° 48.644'N	008° 40.192'E
INTET	56° 13.578'N	009° 24.685'E
MIKRO	55° 24.905'N	008° 09.983'E
RERPA	56° 28.700'N	008° 11.250'E
RIDSI	55° 35.500'N	009° 59.650'E

CHANGES: TRACKS CHANGED TO 262 DEGREES DUE TO MAGNETIC VARIATION CHANGE.

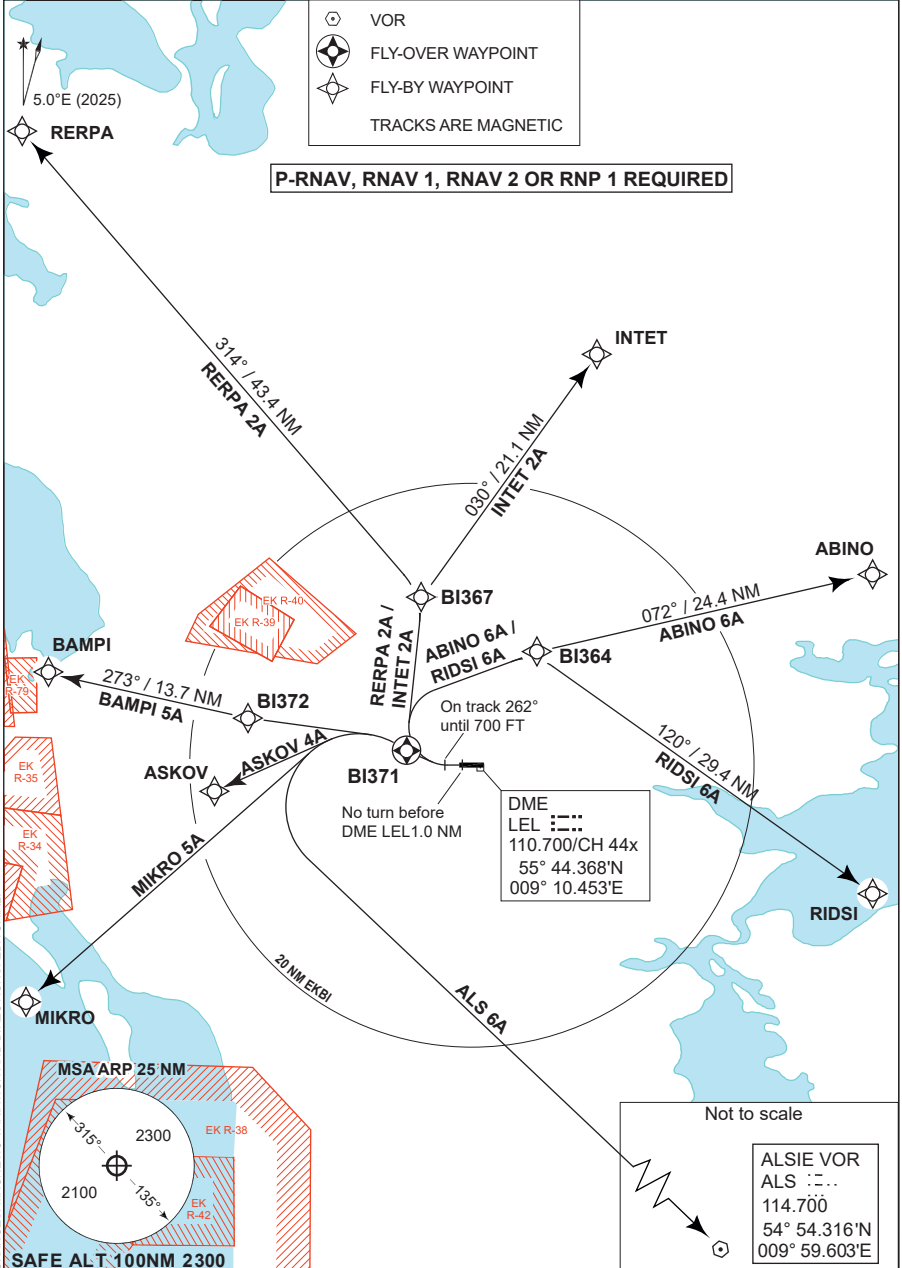
AIR COMMAND DENMARK - MIL AIM 19 FEB 2026

SID (P-RNAV) RWY 27 (TEXT)

BILLUND (EKBI)



STANDARD INSTRUMENT DEPARTURE CHART



SID (P-RNAV) RWY 27

BILLUND (EKBI)

ESBJERG (EKEB)

AERODROME CHART

ILS or LOC Z RWY 08

ILS or LOC Z RWY 26

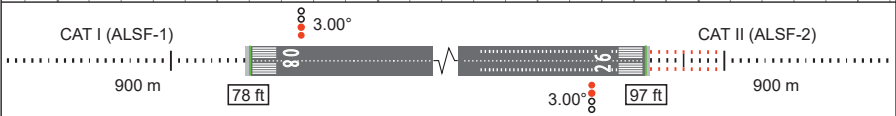
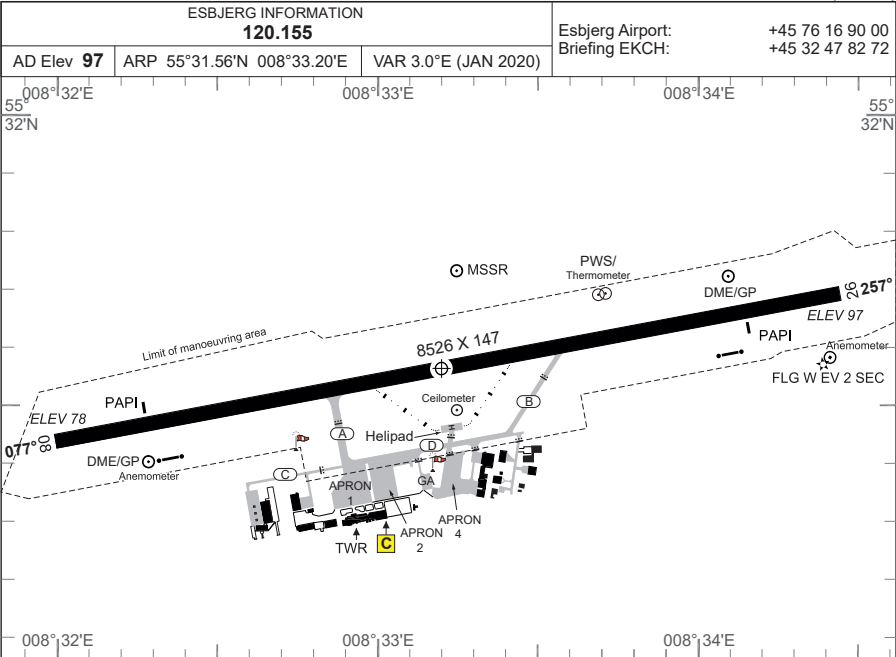
ILS or LOC Y RWY 08

ILS or LOC Y RWY 26



AERODROME CHART

ESBJERG (EKEB)



RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING						THR PSN
		PSN	TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE	END	
08	60 F/A/W/T		8526	8526	8526	8526	79	LIH	3.00°		LIH	LIH	LIH	55°31.43'N 008°32.01'E
		A	5479	5479	5479									
		B	3021	3021	3021									
26			8526	8526	8526	8526	97	LIH	3.00°	LIH	LIH	LIH	55°31.69'N 008°34.44'E	
		B	5410	5410	5410									
		A	2969	2969	2969									

Parachuting may take place.

Flight procedures:

- Aircraft will normally be cleared by ACC Copenhagen to TOMMO HLDG.
- Navigation fix designated for radio communication failure during IMC is: TOMMO.
- Omnidirectional departures:

RWY 08/26: Climb straight ahead to at least 500 FT AMSL before turn is commenced.

MIPS	CIRCLING MINIMA (Cat. C - E north of AD only)				
	A	B	C	D	E
590	-1.5 493 (500-1.5)	600 (600-1.6)	840 (800-2.4)	990 (900-3.6)	1090 (1000-3.6)

AERODROME CHART

ESBJERG (EKEB)



CHANGES: ARRIVAL & COMMUNICATION FAILURE PROCEDURES CHANGED. CIRCLING MINIMA CHANGED.

AIR COMMAND DENMARK - MIL AIM 20 MAR 2025

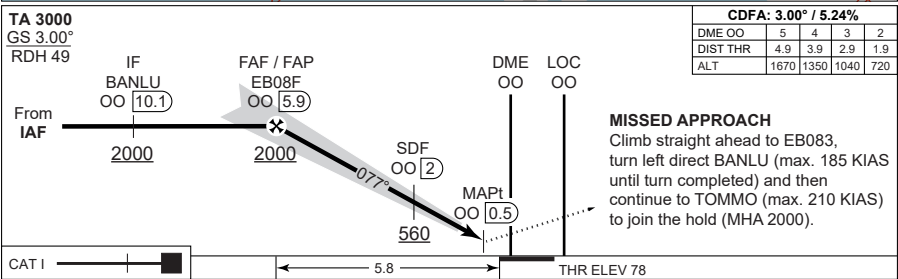
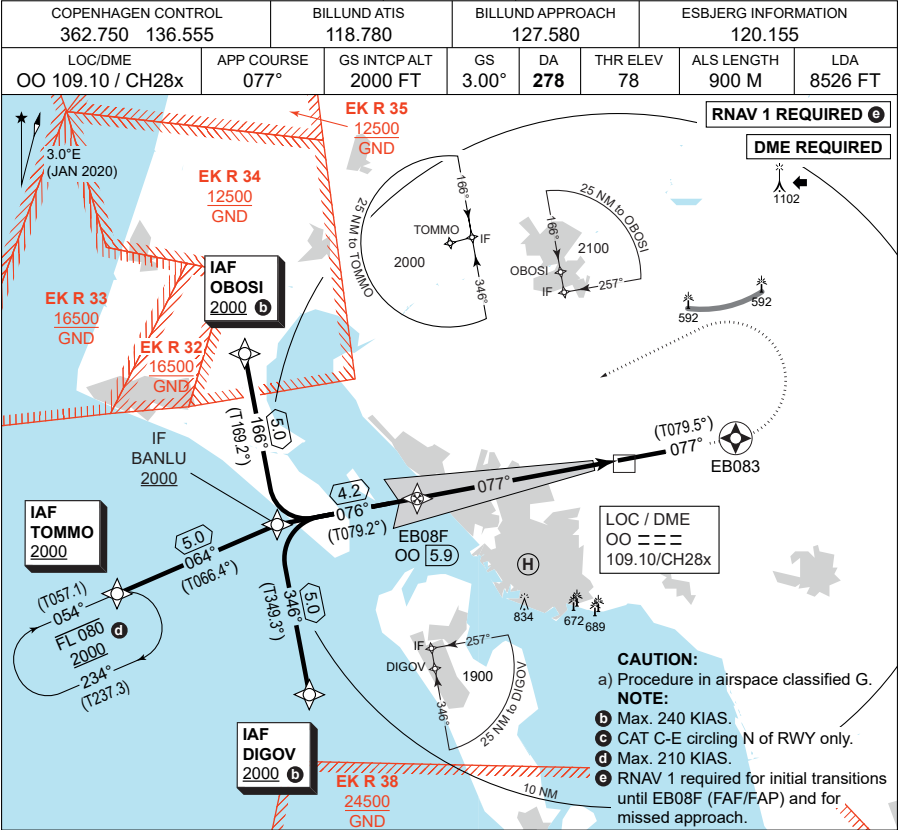
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 97

ILS or LOC Z RWY 08

ESBJERG (EKEB)



CATEGORY	A	B	C	D	E
S-ILS CAT I	278 - 550 200 (200-0.8/1.2)				
S-LOC 08	460 - 1100 382 (400-1.1/1.8)				
CIRCLING	590 -1.5 493 (500-1.5)	600 -1.6 503 (600-1.6)	840 -2.4 743 (800-2.4)	990 -3.6 893 (900-3.6)	1090 -3.6 993 (1000-3.6)

ILS or LOC Z RWY 08

55°31.56'N
008°33.20'E
4-2

ESBJERG (EKEB)



CHANGES: EKD 301 WITHDRAWN

AIR COMMAND DENMARK - MIL AIM 15 MAY 2025

INSTRUMENT APPROACH CHART

AD ELEV 97

ESBJERG (EKEB)

CATEGORY		A		B		C		D		E	
MIPS	S-ILS CAT I	278 - 550 200 (200-0.8/1.2)									
	S-LOC 08	460 - 1100 382 (400-1.1/1.8)									
	CIRCLING ●	590	-1.5 493 (500-1.5)	600	-1.6 503 (600-1.6)	840	-2.4 743 (800-2.4)	990	-3.6 893 (900-3.6)	1090	-3.6 993 (1000-3.6)

55°31.56'N
008°33.20'E
4-3

ESBJERG (EKEB)

MIPS

INSTRUMENT APPROACH CHART

AD ELEV 97

ILS or LOC Z RWY 26

ESBJERG (EKEB)

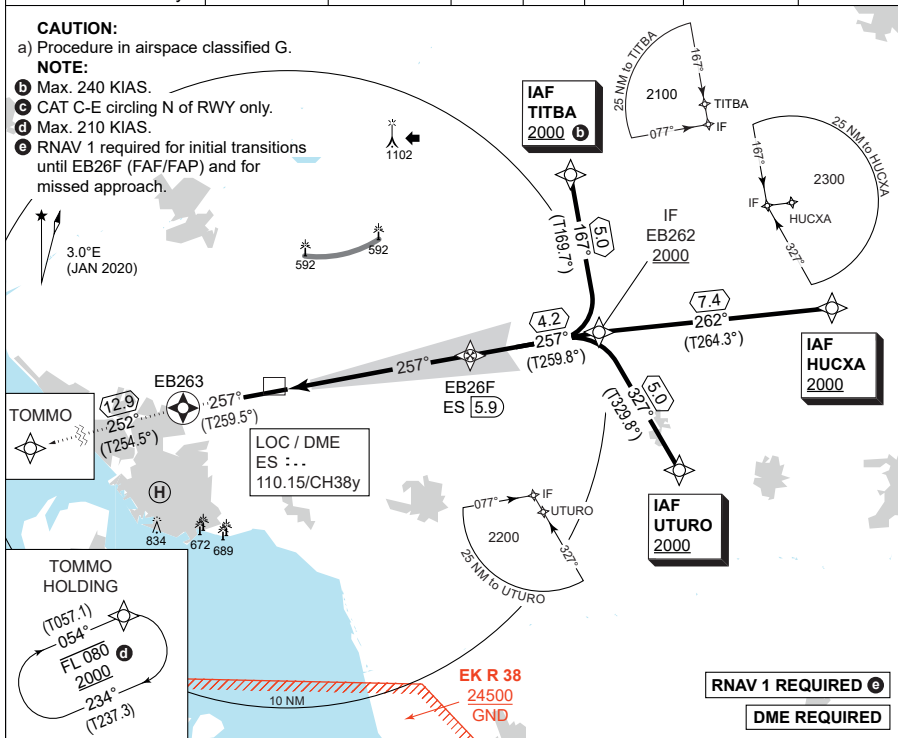
COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780		BILLUND APPROACH 127.580		ESBJERG INFORMATION 120.155	
LOC/DME ES 110.15 / CH38y	APP COURSE 257°	GS INTCP ALT 2000 FT	GS 3.00°	DA 297	THR ELEV 97	ALS LENGTH 900 M	LDA 8526 FT

CAUTION:

a) Procedure in airspace classified G.

NOTE:

- b) Max. 240 KIAS.
 c) CAT C-E circling N of RWY only.
 d) Max. 210 KIAS.
 e) RNAV 1 required for initial transitions until EB26F (FAF/FAP) and for missed approach.

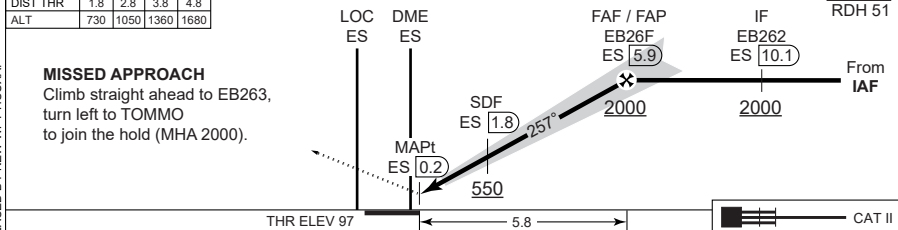


CDFA: 3.00° / 5.24%					
DME ES	2	3	4	5	
DIST THR	1.8	2.8	3.8	4.8	
ALT	730	1050	1360	1680	

TA 3000
 GS 3.00°
 RDH 51

MISSED APPROACH

Climb straight ahead to EB263,
 turn left to TOMMO
 to join the hold (MHA 2000).



CATEGORY	A	B	C	D	E
S-ILS CAT I	297 - 550 200 (200-0.8/1.2)				
S-LOC 26	430 - 800 333 (400-0.8/1.5)				
CIRCLING	590 -1.5 493 (500-1.5)	600 -1.6 503 (600-1.6)	840 -2.4 743 (800-2.4)	990 -3.6 893 (900-3.6)	1090 -3.6 993 (1000-3.6)

ILS or LOC Z RWY 26

55°31.56'N
 008°33.20'E
 4-6

ESBJERG (EKEB)

CHANGES: WPT HAJAQ REPLACED BY NEW WPT HUCXA.

AIR COMMAND DENMARK - MIL AIM 15 MAY 2025



MIPS

INSTRUMENT APPROACH CHART

AD ELEV 97

ILS or LOC Y RWY 26

ESBJERG (EKEB)

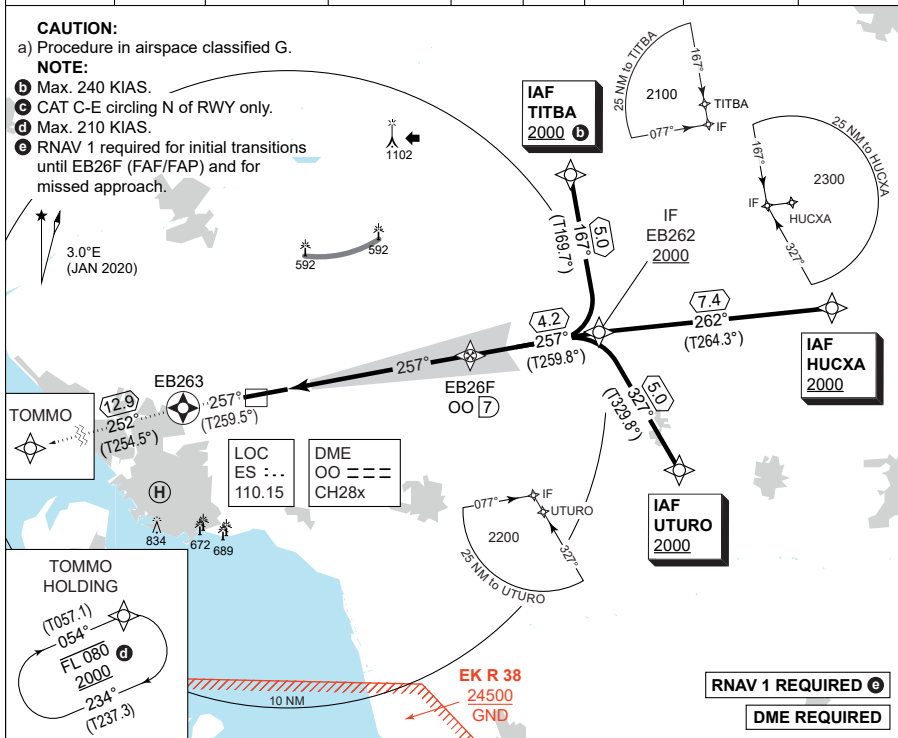
COPENHAGEN CONTROL		BILLUND ATIS		BILLUND APPROACH		ESBJERG INFORMATION		
362.750 136.555		118.780		127.580		120.155		
LOC	DME	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS LENGTH	LDA
ES 110.15	OO 28x	257°	2000 FT	3.00°	297	97	900 M	8526 FT

CAUTION:

a) Procedure in airspace classified G.

NOTE:

- b) Max. 240 KIAS.
 c) CAT C-E circling N of RWY only.
 d) Max. 210 KIAS.
 e) RNAV 1 required for initial transitions until EB26F (FAF/FAP) and for missed approach.



CDFA: 3.00° / 5.24%

DME OO	3	4	5	6
DIST THR	1.8	2.8	3.8	4.8
ALT	710	1030	1350	1660

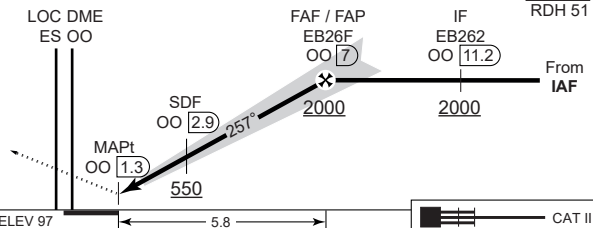
TA 3000

GS 3.00°

RDH 51

MISSED APPROACH

Climb straight ahead to EB263,
 turn left to TOMMO
 to join the hold (MHA 2000).



CATEGORY	A	B	C	D	E
S-ILS CAT I	297 - 550 200 (200-0.8/1.2)				
S-LOC 26	430 - 800 333 (400-0.8/1.5)				
CIRCLING e	590 -1.5 493 (500-1.5)	600 -1.6 503 (600-1.6)	840 -2.4 743 (800-2.4)	990 -3.6 893 (900-3.6)	1090 -3.6 993 (1000-3.6)

ILS or LOC Y RWY 26

55°31.56'N
008°33.20'E

ESBJERG (EKEB)

4-7

CHANGES: WPT HAJAQ REPLACED BY NEW WPT HUCXA.

AIR COMMAND DENMARK - MIL AIM 15 MAY 2025



KARUP (EKKA)

AERODROME CHART

ILS or LOC RWY 09R

ILS or LOC RWY 27L

HPMA TACAN RWY 09R

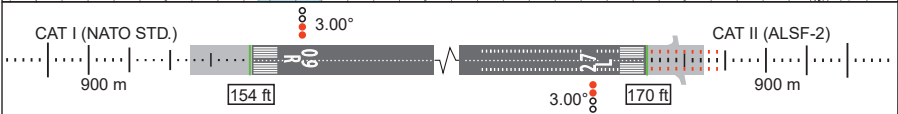
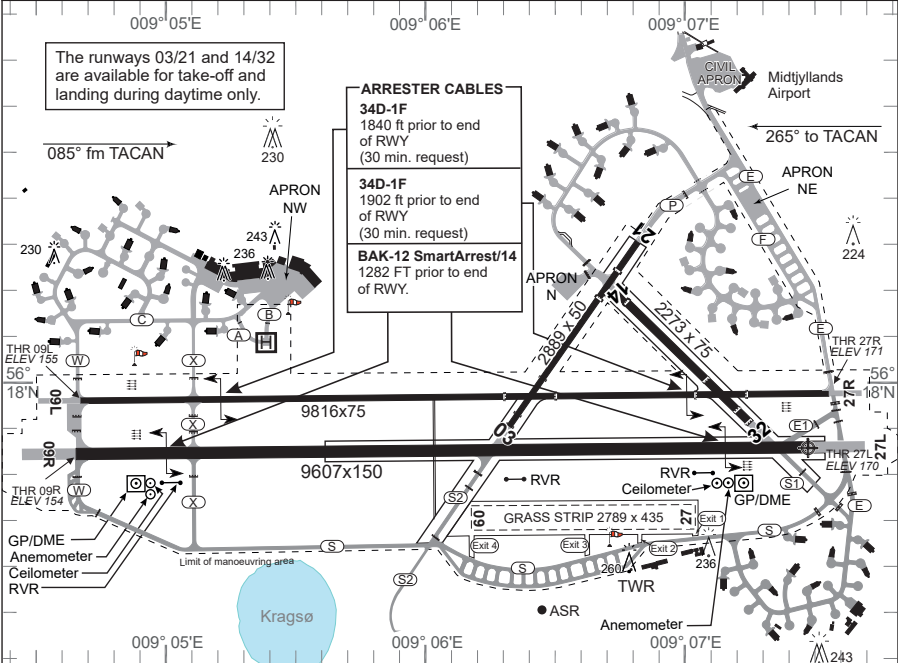
HPMA TACAN RWY 27L



AERODROME CHART

KARUP AIR BASE (EKKA)

KARUP ATIS 120.580	KARUP TOWER 353.575 / 119.580	KARUP APPROACH 269.275 / 120.430	AD Admin and FPL: Email: +45 72 84 31 11 wkar-wingops@mil.dk
AD Elev 171	ARP 56°17.85'N 009°07.48'E	VAR 4°E (2023)	



RWY	PCN	PCR	DECLARED DISTANCES	THR ELEV	RWY LIGHTING	THR PSN
09R	75	530	TORA 9607 ASDA 10352 LDA 9607	154	LIH 3.00°	56°17.84'N 009°04.64'E
27L	F/C/W/T	R/B/W/T	9607 9607 10352 9607	170	LIH 3.00°	56°17.85'N 009°07.48'E
09L	120	390	9816 9816 10389 9816	154	LIL 3.00°	56°17.95'N 009°04.66'E
27R	F/B/W/T	F/B/X/T	9816 9816 10282 9816	171	LIL 3.00°	56°17.96'N 009°07.56'E
MIL HELIPAD PSN 56°18.08'N 009°05.38'E. PCN 29 F/C/W/T						

Noise abatement procedures:
RWY 27L/R: None.
RWY 09R/L: Noise abatement procedure for all jet aircraft and for propeller and turboprop aircraft MTOW above 5700 kg for departure or missed approach RWY 09R/L.
VMC: Avoid overflying the towns/villages Karup and Kølvrå below 2000 feet MSL.
IMC: Turn must not be commenced before DME KAR (CH 37x) 6.5 NM (or DME KAP (CH20y) 4.0 NM) or 2000 feet AMSL, whichever comes first.
Afterburner/reheat must be cut off before reaching the NE/SW going main road (Viborg - Herning) just east of the airfield.
Omnidirectional departures all runways:
Climb straight ahead to at least 850 FT AMSL before turn is commenced.

AERODROME CHART

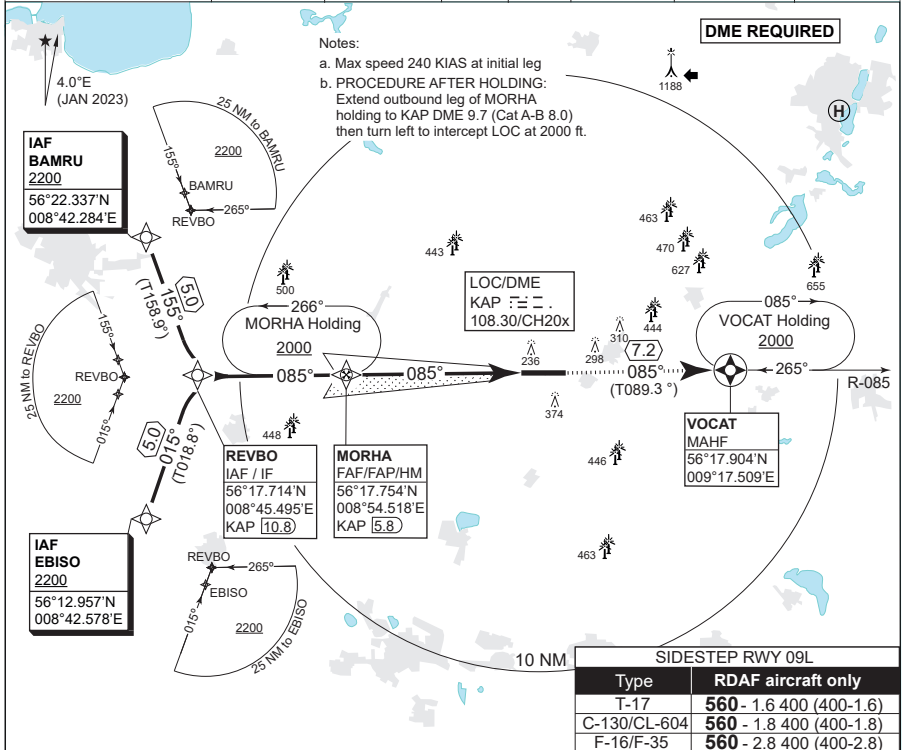
KARUP AIR BASE (EKKA)



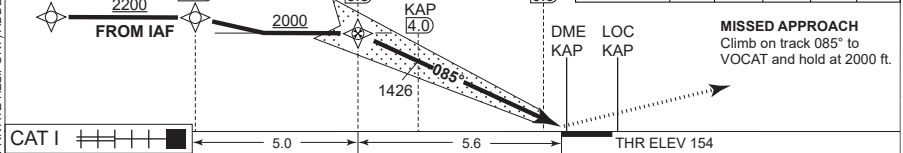
INSTRUMENT APPROACH CHART

ILS or LOC RWY 09R
KARUP AIR BASE (EKKA)

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580		KARUP APPROACH 269.275 120.430			KARUP TOWER 353.575 119.580	
LOC/DME KAP 108.300/CH20X		APP COURSE 085°	GS INTCT ALT 2000 FT	GS 3.00°	DA 354	THR ELEV 154	ALS LENGTH 900 M	LDA 9607 FT



TA 3000	IAF / IF	FAF	LOC ONLY: CDFA 3.00" / 5.24%							
GS 3.0°	REVBO	MORHA	MAPt	DME KAP	5	4	3	2	1	
RDH 50	KAP	KAP	LOC ONLY	KAP	DIST THR	4.8	3.8	2.8	1.8	0.8
	10.8	5.8		0.6	ALT	1750	1430	1110	790	470



CATEGORY		A	B	C	D	E
MIPS	S-ILS CAT I	354 - 550 200 (200-0.8/1.2)				
	S-LOC 09R	470 - 750 316 (400-0.8/1.4)				
	CIRCLING	670 - 1.5 499 (500-1.5)	680 - 1.6 509 (600-1.6)	840 - 2.4 669 (700-2.4)	880 - 3.6 709 (800-3.6)	1120 - 3.6 949 (1000-3.6)

ILS or LOC RWY 09R

56°17.85'N
009°07.48'E
5-2

KARUP AIR BASE (EKKA)



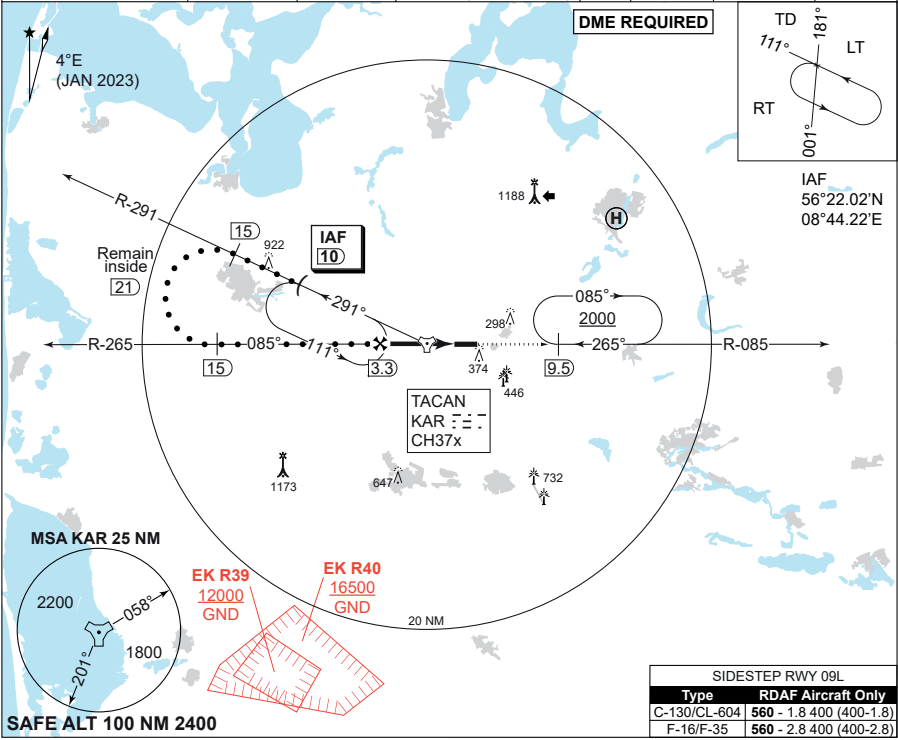
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 171

HPMA TACAN RWY 09R
KARUP AIR BASE (EKKA)

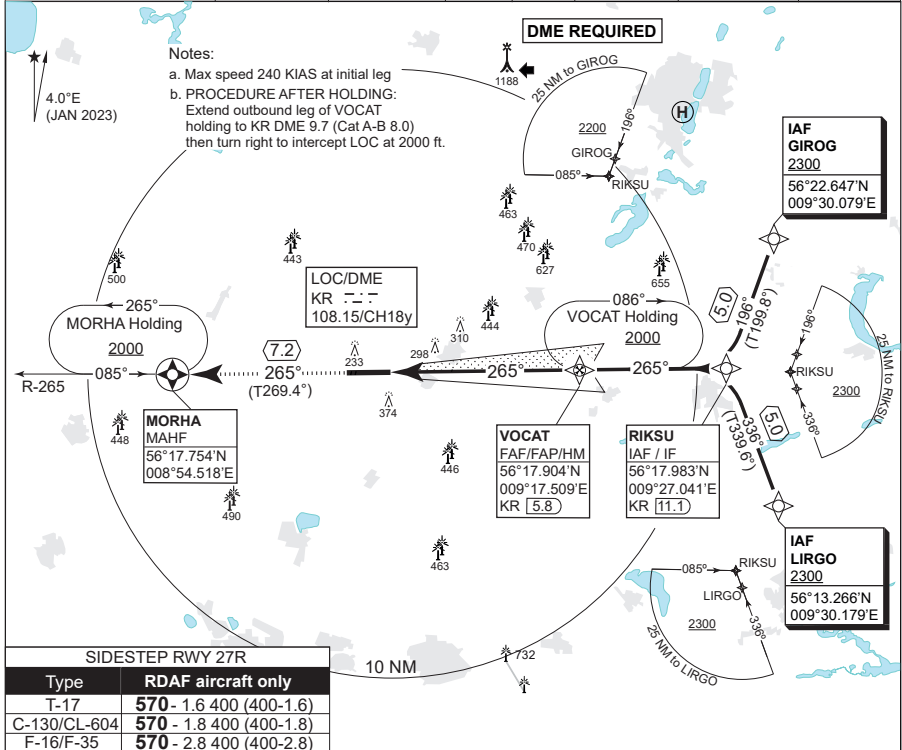
COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580		KARUP APPROACH 269.275 120.430		KARUP TOWER 353.575 119.580	
TACAN KAR CH 37x	APP COURSE 085°	FAF ALT 2000 FT	DESCENT GR. 5.24% (318 FT/NM)	MDA 500	THR ELEV 154	ALS LENGTH 900 M	LDA 9607 FT



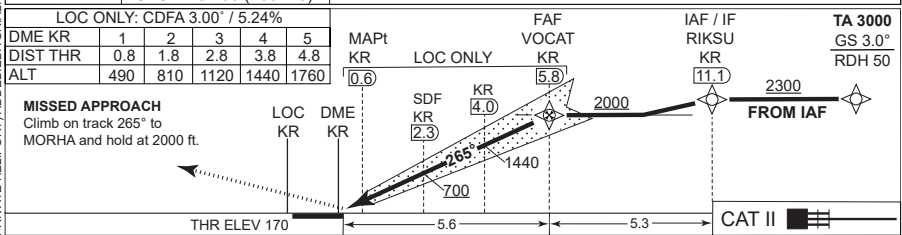
INSTRUMENT APPROACH CHART

KARUP AIR BASE (EKKA)

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580		KARUP APPROACH 269.275 120.430			KARUP TOWER 353.575 119.580	
LOC/DME KR 108.150/CH18y		APP COURSE 265°	GS INTCP ALT 2000 FT	GS 3.00°	DA 370	THR ELEV 170	ALS LENGTH 900 M	LDA 9607 FT



SIDESTEP RWY 27R	
Type	RDAF aircraft only
T-17	570 - 1.6 400 (400-1.6)
C-130/CL-604	570 - 1.8 400 (400-1.8)
F-16/F-35	570 - 2.8 400 (400-2.8)



CATEGORY		A	B	C	D	E
MIPS	S-ILS CAT I	370 - 550 200 (200-0.8/1.2)				
	S-ILS CAT II	RA 106 (DA 270) - 350 100				N/A
	S-LOC 27L	480 - 750 310 (400-0.8/1.4)				
	CIRCLING	670 - 1.5 499 (500-1.5)	680 - 1.6 509 (600-1.6)	840 - 2.4 669 (700-2.4)	880 - 3.6 709 (800-3.6)	1120 - 3.6 949 (1000-3.6)

ILS or LOC RWY 27L

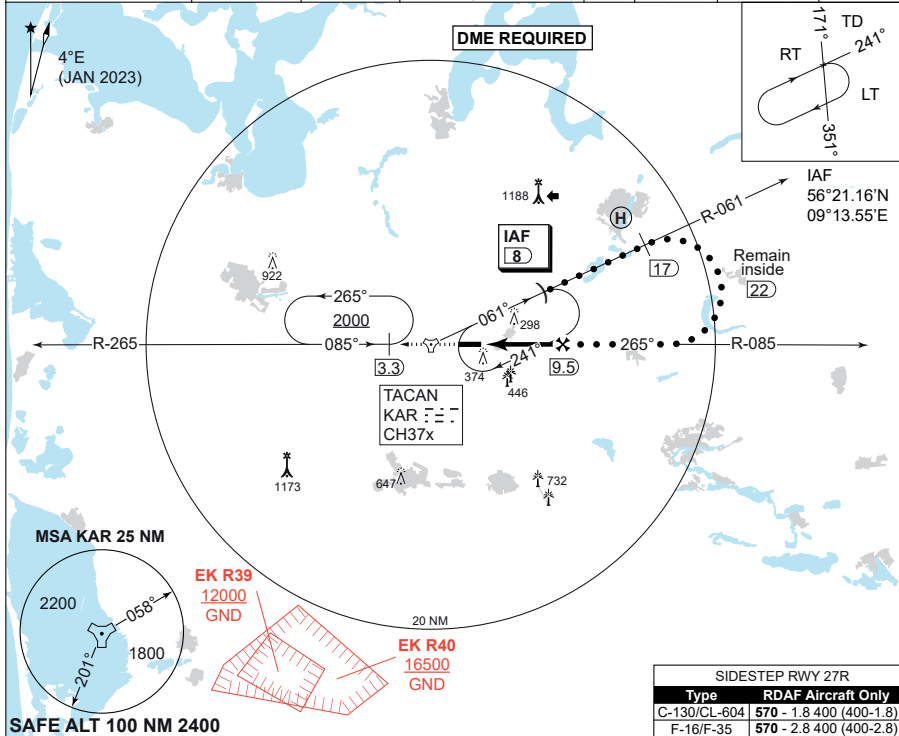
56°17.85'N
009°07.48'E
5-8

KARUP AIR BASE (EKKA)



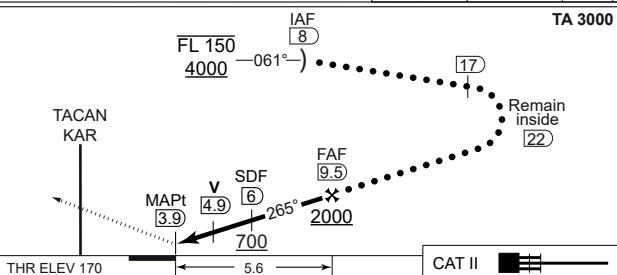
COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580		KARUP APPROACH 269.275 120.430		KARUP TOWER 353.575 119.580	
TACAN KAR CH 37x	APP COURSE 265°	FAF ALT 2000 FT	DESCENT GR. 5.24% (318 FT/NM)		MDA 560	THR ELEV 170	LDA 900 M 9607 FT

HPMA TACAN RWY 27L
KARUP AIR BASE (EKKA)



CDFA: 3.0° / 5.24%					
DME KAR	5	6	7	8	9
DIST THR	1.1	2.1	3.1	4.1	5.1
ALT	580	900	1220	1540	1850

Climb on R-085 to KAR.
After KAR continue on R-265.
Hold at 3.3 DME at 2000 ft.



	CATEGORY	HPMA
MPS	S-TACAN 27L	560 - 1100 389 (400-1.1/1.8)
	CIRCLING	750 - 3.2 579 (600-3.2)

HPMA TACAN RWY 27L

56°17.85'N
009°07.48'E
5-10

KARUP AIR BASE (EKKA)



KASTRUP (EKCH)

AERODROME CHART

F-16 PARKING EKCH

ILS or LOC RWY 04L

ILS or LOC RWY 22L

ILS or LOC RWY 04R

ILS or LOC RWY 22R

ILS or LOC RWY 12

ILS or LOC RWY 30

KASTRUP OPS

KASTRUP ARRIVAL

WP LIST



AERODROME CHART

KASTRUP (EKCH)



RWY	PCN	DECLARED DISTANCES					HDG	THR	RWY LIGHTING					APP LGT	THR PSN
		TORA	TODA	ASDA	LDA	MAG			THR	PAPI	TDZ	CL	EDGE	END	
04L	80 F/C/X/U	9845	9845	11715	9845	037°	13	LIH	3°	LIH	LIH	LIH	LIH	CAT II	55°35.54'N 012°36.22'E
22R	80 F/C/X/U	11715	11715	11715	9845	217°	14	LIH	3°	LIH	LIH	LIH	LIH	J	55°36.76'N 012°37.10'E
04R	80 F/C/X/U	10833	10833	10833	10833	037°	12	LIH	3°		LIH	LIH	LIH	J	55°36.19'N 012°37.99'E
22L	80 F/C/X/U	10833	10833	10833	10833	217°	8	LIH	3°	LIH	LIH	LIH	LIH	CAT II-III	55°37.53'N 012°40.06'E
12	80 F/C/X/U	9186	9186	9186	7759	119°	13	LIH	3°		LIH	LIH	LIH	J	55°37.46'N 012°38.36'E
30	80 F/C/X/U	7759	7759	8743	6873	299°	8	LIH	3°		LIH	LIH	LIH	J	55°36.84'N 012°40.02'E

FREQUENCIES	
COPENHAGEN APP:	119.805
KASTRUP FINAL:	120.205
KASTRUP TWR:	118.105 / 118.580 / 118.705 / 119.355 / 121.830
KASTRUP APRON:	121.630 / 121.905
ATIS (ARR):	122.755
ATIS (DEP):	122.855
ASE HANDLING:	131.925
F-16 PARKING POSITIONS	
ARMED OR EPU ACTIVATED:	
TWY G3. Safe direction SOUTH EAST (follow marshaller)	
AIRCRAFT NOT ARMED:	
RI, RII or RIII on Apron W, TWY F3, engine run-up area on Apron C or TWY F2. Follow marshaller.	
See page 6-2 for further details.	

TAKE-OFF POSITIONS				
RWY	PSN	TORA	TODA	ASDA
22R	A2	11446	11446	11446
	A3	11030	11030	11030
	A4	10610	10610	10610
	A5	9478	9478	9478
04R	B2	10508	10508	10508
	B3	9176	9176	9176
	B4/C	6368	6368	6368
22L	V2	9143	9143	9143
	K2	8854	8854	8854
12	K3	8139	8139	8139
	D	5898	5898	5898

AERODROME CHART

KASTRUP (EKCH)



CHANGES: DEPICTION OF PSR / MSSR WITHDRAWN.

AIR COMMAND DENMARK - MIL AIRM 30 OCT 2025

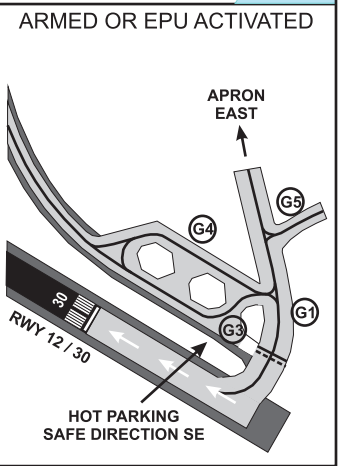
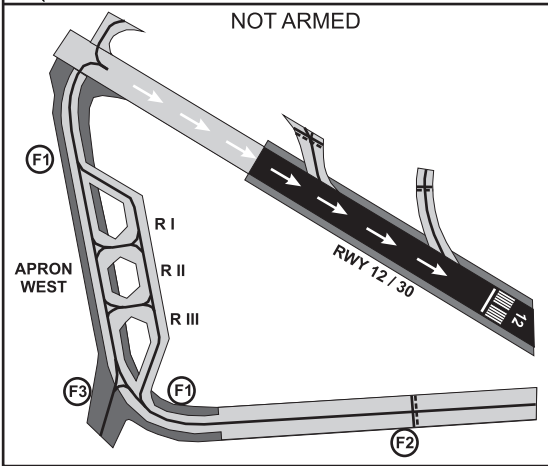
F-16 PARKING POSITIONS

KASTRUP (EKCH)



NOT ARMED

ARMED OR EPU ACTIVATED



F-16 PARKING POSITIONS

KASTRUP (EKCH)

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL AIM 28 NOV 2024



KASTRUP OPERATIONS**1. GENERAL**

- 1.1. Use of afterburner is not permitted
- 1.2. Preferred RWY for landing: 22L/04L.
Preferred RWY for take off: 22R/04R.

2. APPROACH

- 2.1. After KORSA or TRANO expect radar vectoring to final.
- 2.2. On initial contact with APP or ARR: State callsign, aircraft type, and arrival ATS.
- 2.3. On initial contact with Final state callsign only.
- 2.4. Do not overfly the city of Copenhagen below 2500 feet.
- 2.5. RWY 12: Do not fly below GP during instrument or visual approach.
- 2.6. Landing on RWY 22L: Turn on to taxiway B unless otherwise instructed.
Landing on RWY 04L: Turn on to taxiway A unless otherwise instructed.
- 2.7. Remain on tower frequency after landing until otherwise instructed by ATC.

3. START UP AND DEPARTURE

- 3.1. Contact DLV (119.900 MHz) between 30 and 10 minutes prior to engine start and state; Call sign, aircraft type, parking place, departure ATIS and need for de-icing.
If unable to follow the SID, inform DLV ("Unable RNAV").
- 3.2. After read back, DLV will give the frequency for GND or TWR. (Expect 121.900 MHz for GND).
- 3.3. On GND/TWR request start up and taxi (Marshaller compulsory from R1-R3)
- 3.4. Take off position: See AD LAYOUT for INT and distances.
- 3.5. Departure:
 - 3.5.1. When passing 1000 feet contact departure on frequency 124.980 MHz for the following SID's (without designator as e.g. BISTA 1C): BISTA, KEMAX, SIMEG, SALLO, MAXEL and TOBIS – departures in direction 001° to 270° from EKCH ARP.
 - 3.5.2. When passing 1000 feet contact DEP on frequency 120.255 MHz for the following departures (without designator e.g. DOBEL 1C): DOBEL, MIRGO, and NOVPO – departures in direction 271° to 360° from EKCH ARP.



- 3.6. Speed restriction is 250 kt. below FL70.
- 3.7. NOTE: Non RNAV aircraft: At first CTC with TWR state inability to follow SID. Climb straight ahead to FL70 for radar vectors to SID designation point.
COM: Remain on TWR FREQ until passing 1000FT. At 1000FT CTC DEP.
ALT restriction is FL70.

4. GROUND HANDLING (FIGHTER AIRCRAFT ONLY)

- 4.1. Landing not planned:
Contact ASE Handling on frequency 131.925 MHz as soon as possible.
- 4.2. Planned landing:
Contact ASE Handling on phone +45 2068 5928 before the mission.
- 4.3. For F-35 JET-A/JET-A1 is characterized as "Restricted Fuel" iaw. FSD.
RTB flight to be conducted as direct transit flight back to EKSP.
Aircraft to be partially refueled iaw. RTB mission profile.
- 4.4. ASE Handling are not familiar with "F-35 Ground Ladder". It is the pilot's responsibility to be familiar with, and be able to instruct civilian ground personnel in its operation, from the cockpit.

5. PLANNED PARKING POSITIONS FOR FIGHTER AIRCRAFT

- 5.1. Armed F-16 or F-16 with activated EPU:
Taxiway G3. Safe direction is SE (Follow Marshaller).
- 5.2. Unarmed F-16:
RI, RII or RIII on Apron W, taxiway F3, engine run up area on Apron C or taxiway F2. (Follow Marshaller).
- 5.3. Unarmed F-35:
CPH Marshaller will handover aircraft to ASE Handling on parking spot G110-G114.
Parking is only allowed on concrete as IPP operation will melt asphalt.



KASTRUP ARRIVAL**IFR approach**

At first contact with APPROACH, state type of aircraft.

At initial contact with FINAL, state only callsign.

Radio Communication failure during IFR approach for a/c WITHOUT VOR, but WITH TACAN, incl. RDAF F-16 / F-35.

In case of radio communication failure the last cleared and acknowledged level shall be maintained until RNAV fix UVALO (55°47.47N 012°05.73E) HIGH HOLDING. (UVALO R-278 / 20 NM). Descend to 6000 FT AMSL in the holding pattern. If already at a lower level, maintain this.

From UVALO HIGH HOLDING proceed via UVALO on radials (UVALO R-160 to RWY 04L/R and R-083 to RWY 22L/R respectively). At 13 NM from UVALO descend to maintain 3000 FT before established on the localizer to the runway concerned.

Radio Communication failure during IFR approach for a/c WITH VOR.

In case of radio communication failure, the last cleared and acknowledged level shall be maintained until the appropriate primary holding pattern (see next page). Descent to FL80 in the holding pattern. If already at a lower level, maintain that level until KASFI (55°35.43N 012 36.82E).

From the primary holding pattern proceed via ERNOV, TIDVU, OLPIB, KOR or TNO VOR direct to KASFI. Maintain FL 80 (FL 100 via ERNOV) or last cleared and acknowledged level or altitude.

If radio communication failure occur during vectoring or after passing over or abeam the primary holding fix, proceed direct to KASFI. Maintain FL 80 (FL 100 via ERNOV) or last cleared and acknowledged level or altitude. When distance to KASFI is 15 NM or less descend to 5000 FT. After KASFI descend to 3000 FT and proceed direct relevant IAF.

Special conditions for flying in Swedish Airspace.

Danish military aircraft may, in connection with approach to EKCH, enter Swedish airspace, within the areas delegated to Copenhagen APP. The flight must be controlled by Copenhagen APP. The areas are:

- Copenhagen Area.
- Area L2, L3, Area SUNDET and Area KASTRUP (see MIL AIP Denmark page ENR 2.1-2 and ENR 2.3-3 (chart))



Military aircraft may, without special permission, enter Swedish territorial waters in Øresund. Minimum distance to the Swedish coast is 1 NM. All kinds of military activities are prohibited during passage. The area is limited as follows:

- To the north by a line between Gilbjergghoved (56° 08.000'N 012° 27.000'E) and Kullen (56° 18.000'N 012° 27.000'E).
- To the south by a line between Stevns Lighthouse (55° 18.000'N 012° 27.000'E) and Falsterbo Odde (55° 23.000'N 012° 49.000'E).

Primary holdings for København/Kastrup

Holding Name	Inbound Track (MAG)	Turn	MAX IAS	MNM/MAX Level Time	Entry Procedure
TIDVU 55° 24.678'N 013° 33.452'E	294	Right	230	5000 FT 1.5 MIN	Omni-directional
OLPIB 55° 00.090'N 012° 22.753'E	030	Right	230	3500FT/FL140 1 MIN	Omni-directional
	030	Right	240	FL150/FL190 1.5 MIN	Omni-directional
LUGAS KOR VOR/DME R-251/23.8 DME 55° 19.783'N 010° 57.783'E	073	Left	230	3500FT/FL140 1 MIN	Direct entry via TUDLO*
	073	Left	240	FL150/FL200 1.5 MIN	Direct entry via TUDLO*
	073	Left	265	FL210/FL300 1.5 MIN	Direct entry via TUDLO*
ROSBI TNO VOR/DME R-282/17.7 DME 55° 50.967'N 010° 55.917'E	103	Left	230	3500FT/FL140 1 MIN	Direct entry via TESPI**
	103	Left	240	FL150/FL200 1.5 MIN	Direct entry via TESPI**
	103	Left	265	FL210/FL300 1.5 MIN	Direct entry via TESPI**
ERNOV 56° 10.132'N 012° 34.427'E	179	Left	230	FL100 / 1.5 MIN	Omni-directional

Notes:

*) TUDLO is on KOR R-251/35.1 DME, PSN 55° 16.550'N 010° 38.867'E

**) TESPI is on TNO R-281/31.6 DME, PSN 55° 53.900'N 010° 31.867'E



MIPS

INSTRUMENT APPROACH CHART

AD ELEV 17

ILS or LOC RWY 04L

KASTRUP(EKCH)

COPENHAGEN APPROACH 119.805	KASTRUP ATIS (ARR) 122.755	KASTRUP FINAL 120.205	KASTRUP TWR 118.105	KASTRUP APRON 121.630
LOC/DME CH 110.50/CH42x	APP COURSE 037°	GS INTCP ALT 2000 FT	GS 3.00°	DA 213
		THR ELEV 13	THR ELEV 13	ALS LENGTH 900 M
				LDA 9842 FT

NOTE:

- a) MAX. 220 KIAS.
 b) Circling for CAT C-E not approved N of AD between centerline RWY 22R and centerline RWY 12.
 c) Maintain last assigned altitude until intercepting the glide path.

FOR TRANSITION: RNAV 1
GNSS OR RADAR VECTURING

MISSED APPROACH COM FAILURE:
 Climb to 3000 FT according to missed approach procedure. Maintain 3000 FT and track for 3 MIN then turn left to ERPUK for new APCH.

IAF
ZAQQI
3000

(1.2)
127°
(T131.1°)

CH713
3000

IF
CH710
2500

IAF
BUDIQ
3000

CH4LF
6.2

(4.0)
037°
(T041.0°)

(2.5)
037°
(T041.0°)

(4.5)
307°
(T311.1°)

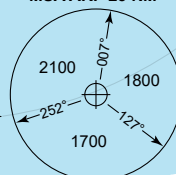
IAF
EQJET
3000

DME REQUIRED

4.0°E
(2017)

680

MSA ARP 25 NM



SAFE ALT 100 NM 3000

TA 5000
GS 3.00°
RDH 49

CDFA: 3.00° / 5.24%

From IAF

IF
CH710
10.1

2500

FAF/FAP
CH4LF
6.2

2000

DME CH
LOC CH

(2)
MAPt
0.5

610

MISSED APPROACH
 Climb straight ahead to 500 FT.
 Turn left and track 343° climbing to 3000 FT. Inform ATC.

CAT II

6.0

THR ELEV 13

CATEGORY		A	B	C	D	E
MIPS	S-ILS CAT I	213 - 550 200 (200-0.8/1.2)				
	S-ILS CAT II	RA 102 (DA 113) - 350 100		RA 106 (DA 117) 350 104	RA 120 (DA 131) 350 118	N/A
	S-LOC 04L	580 - 1900 563 (600-1.9/2.6)				
	CIRCLING b	580 -1.5 563 (600-1.5)	590 -1.6 573 (600-1.6)	1010 -2.4 993 (1000-2.4)	1010 -3.6 993 (1000-3.6)	1180 -3.6 1163 (1200-3.6)

ILS or LOC RWY 04L

55°37.08'N
012°39.36'E

KASTRUP (EKCH)

6-7



CHANGES: RNAV TRANSITION REVISED. WPT DOPEM AND ERPUK WITHDRAWN FROM CHART. NEW WPT CH710, CH713, EQJET AND ZAQQI ADDED. MINIMA GP INOP CHANGED. OBST EKCH ATC TWR ADDED. EDITORIAL.

AIR COMMAND DENMARK - MIL AIM 25 DEC 2025

MIPS

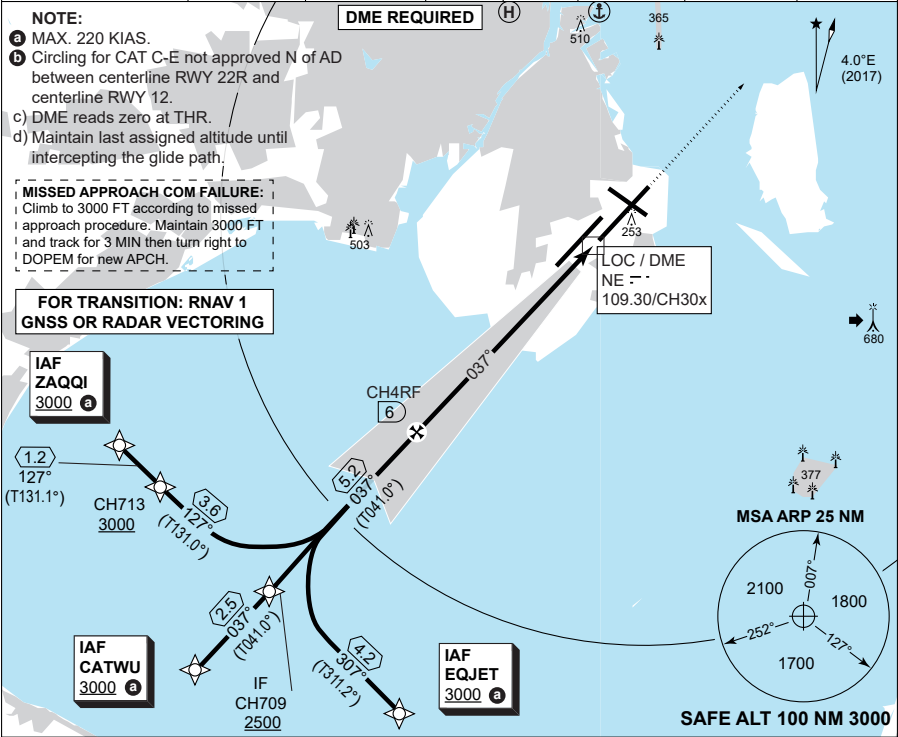
INSTRUMENT APPROACH CHART

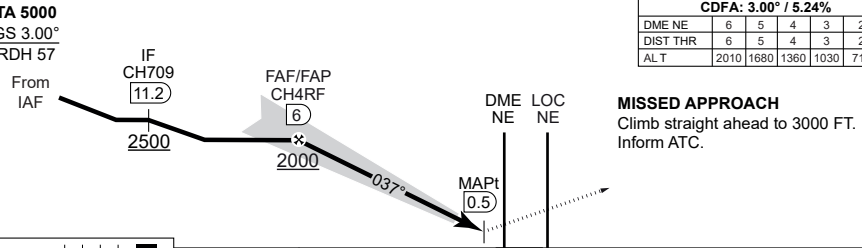
AD ELEV 17

ILS or LOC RWY 04R

KASTRUP(EKCH)

COPENHAGEN APPROACH 119.805		KASTRUP ATIS (ARR) 122.755		KASTRUP FINAL 120.205		KASTRUP TWR 118.105	KASTRUP APRON 121.630	
LOC/DME NE 109.30/CH30x		APP COURSE 037°		GS INTCP ALT 2000 FT		DA 3.00°	THR ELEV 12	ALS LENGTH 720 M
								LDA 10833 FT



TA 5000 GS 3.00° RDH 57		CDFA: 3.00° / 5.24%									
		DME NE	6	5	4	3	2				
		DIST THR	6	5	4	3	2				
		ALT	2010	1680	1360	1030	710				
MISSED APPROACH Climb straight ahead to 3000 FT. Inform ATC.											
											
CAT I		6.0									
CATEGORY		A		B		C		D		E	
S-ILS CAT I		212 - 550 200 (200-0.8/1.2)									
S-LOC 04R		580 - 1500 563 (600-1.5/2.6)					580 - 1900 563 (600-1.9/2.6)				
CIRCLING b		580 -1.5 563 (600-1.5)		590 -1.6 573 (600-1.6)		1010 -2.4 993 (1000-2.4)		1010 -3.6 993 (1000-3.6)		1180 -3.6 1163 (1200-3.6)	

ILS or LOC RWY 04R

55°37.08'N
012°39.36'E
6-8

KASTRUP (EKCH)



CHANGES: RNAV TRANSITION REVISED. WPT DOPM AND ERPUK WITHDRAWN FROM CHART. NEW WPT CH709, CH713, EQJET AND ZAQQI ADDED. OBST EKCH ATC TWR ADDED. CDFA TABLE CHANGED. EDITORIAL.

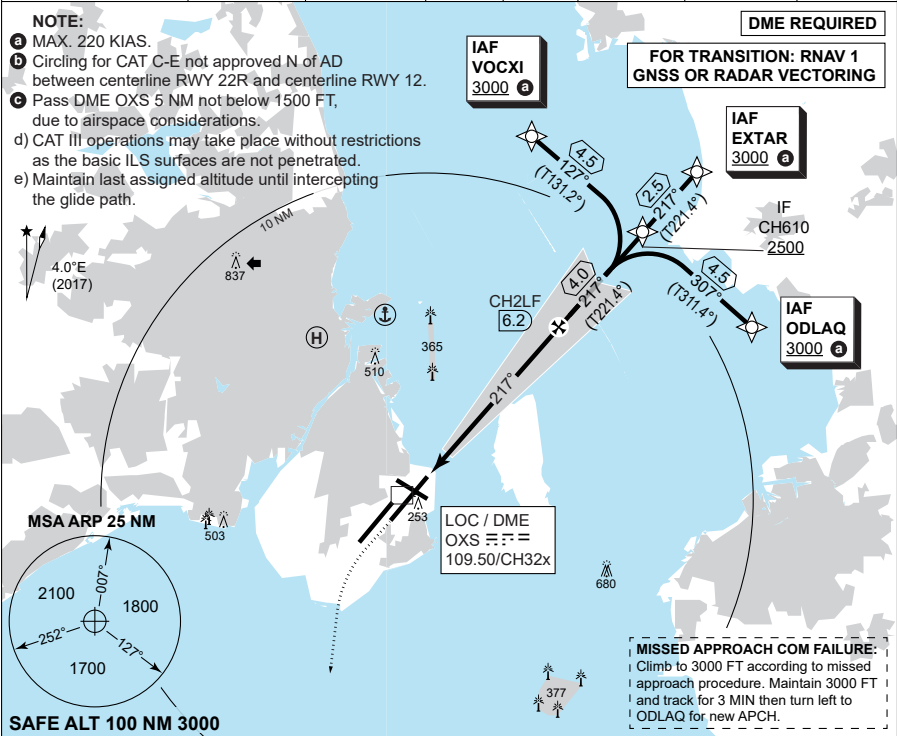
AIR COMMAND DENMARK - MIL AIM 25 DEC 2025

MIPS

INSTRUMENT APPROACH CHART

ILS or LOC RWY 22L
KASTRUP(EKCH)

COPENHAGEN APPROACH 119.805		KASTRUP ATIS (ARR) 122.755		KASTRUP FINAL 120.205		KASTRUP TWR 118.105		KASTRUP APRON 121.630	
LOC/DME OX5109.50/CH32x		APP COURSE 217°		GS INTCP ALT 2000 FT		THR ELEV 8		ALS LENGTH 840 M	
				GS 3.00°		DA 208		LDA 10833 FT	



CDFA: 3.00° / 5.24%							TA 5000 GS 3.00° RDH 53
DME OXS	2	3	4	5	6		
DIST THR	1.8	2.8	3.8	4.8	5.8		
ALT	650	970	1290	1600	1930		

MISSED APPROACH
Climb straight ahead to 500 FT or DME OXS 1.0 NM past DME OXS, whichever is later. Turn left and track 183° climbing to 3000 FT. Inform ATC.

LOC OXS, DME OXS, MAPt 0.5, FAF/FAP CH2LF 6.2, 2000, IF CH610 10.2, 2500, From IAF

THR ELEV 8, 6.0, CAT III

MIPS	CATEGORY	A	B	C	D	E
	S-ILS CAT I	208 - 550 200 (200-0.8/1.2)				
	S-ILS CAT II	RA 101 (DA 108) - 350 100				
	S-LOC 22L	510 - 1500 493 (500-1.5/2.3)				
	CIRCLING	580 -1.5 563 (600-1.5)	590 -1.6 573 (600-1.6)	1010 -2.4 993 (1000-2.4)	1010 -3.6 993 (1000-3.6)	1180 -3.6 1163 (1200-3.6)

ILS or LOC RWY 22L KASTRUP (EKCH)

55°37.08'N
012°39.36'E
6-9



CHANGES: RNAV TRANSITION REVISED. WPT ABEGI AND ADOVI WITHDRAWN FROM CHART. NEW WPT CH610, VOCXI AND ODLAQ ADDED. OBST EKCH ATC TWR ADDED. EDITORIAL.

AIR COMMAND DENMARK - MIL AIM 25 DEC 2025

MIPS

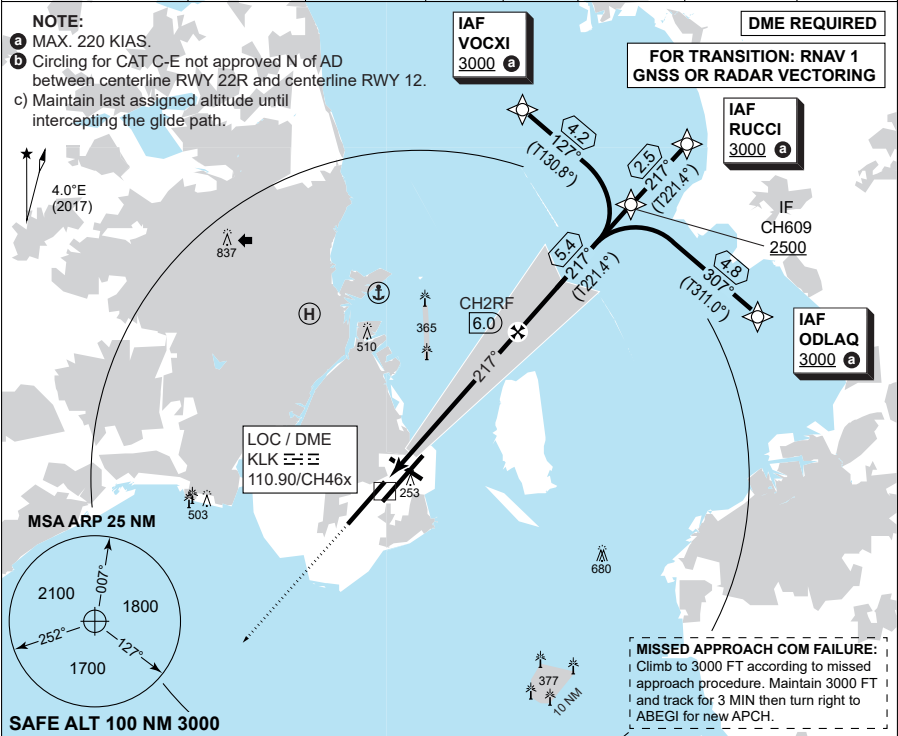
INSTRUMENT APPROACH CHART

AD ELEV 17

ILS or LOC RWY 22R

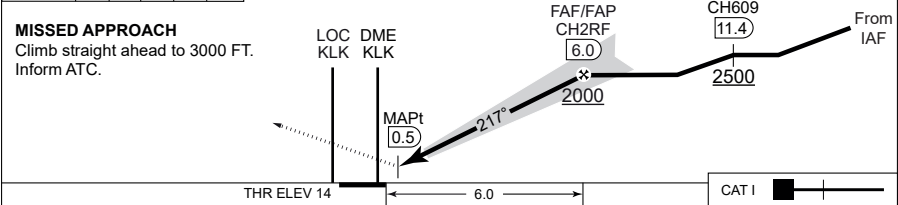
KASTRUP(EKCH)

COPENHAGEN APPROACH 119.805	KASTRUP ATIS (ARR) 122.755	KASTRUP FINAL 120.205	KASTRUP TWR 118.105	KASTRUP APRON 121.630
LOC/DME KLK 110.90/CH46x	APP COURSE 217°	GS INTCP ALT 2000 FT	GS 3.00°	DA 214
		THR ELEV 14	ALS LENGTH 900 M	LDA 9842 FT



CDFA: 3.00° / 5.24%	
DME OXS	2 3 4 5 6
DIST THR	1.8 2.8 3.8 4.8 5.8
ALT	650 970 1290 1610 1930

TA 5000
GS 3.00°
RDH 47



CATEGORY	A	B	C	D	E
S-ILS CAT I	214 - 550 200 (200-0.8/1.2)				
S-LOC 22R	450 - 1300 433 (500-1.3/2.0)				
CIRCLING b	580 -1.5 563 (600-1.5)	590 -1.6 573 (600-1.6)	1010 -2.4 993 (1000-2.4)	1010 -3.6 993 (1000-3.6)	1180 -3.6 1163 (1200-3.6)

ILS or LOC RWY 22R

55°37.08'N
012°39.36'E
6-10

KASTRUP (EKCH)

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL AIM 16 APR 2026

MIPS

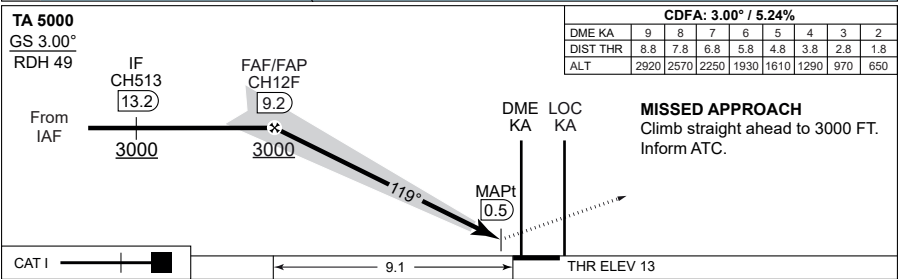
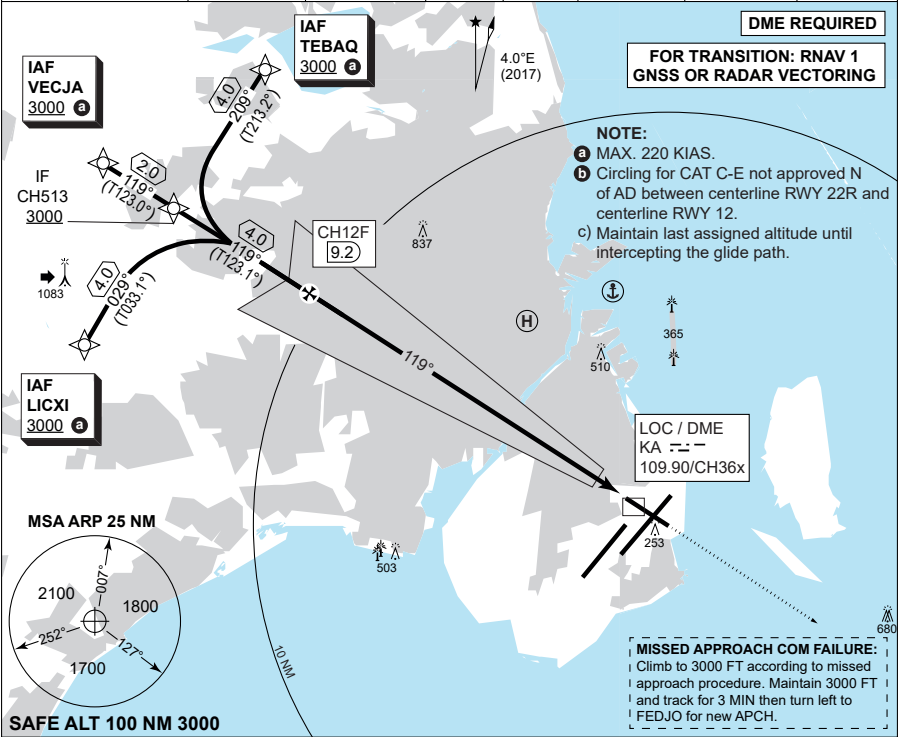
INSTRUMENT APPROACH CHART

AD ELEV 17

ILS or LOC RWY 12

KASTRUP(EKCH)

COPENHAGEN APPROACH 119.805	KASTRUP ATIS (ARR) 122.755	KASTRUP FINAL 120.205	KASTRUP TWR 118.105	KASTRUP APRON 121.630
LOC/DME KA 109.90/CH36x	APP COURSE 119°	GS INTCP ALT 3000 FT	GS 3.00°	DA 213
			THR ELEV 13	ALS LENGTH 900 M
				LDA 7759 FT



CATEGORY	A	B	C	D	E
S-ILS CAT I	213 - 550 200 (200-0.8/1.2)				
S-LOC 12	790 - 1500 773 (800-1.5/3.6)		790 - 2400 773 (800-2.4/3.6)		
CIRCLING	790 -1.5 773 (800-1.5)	790 -1.6 773 (800-1.6)	1010 -2.4 993 (1000-2.4)	1010 -3.6 993 (1000-3.6)	1180 -3.6 1163 (1200-3.6)

ILS or LOC RWY 12

55°37.08'N
012°39.36'E
6-11

KASTRUP (EKCH)



CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL AIM 16 APR 2028

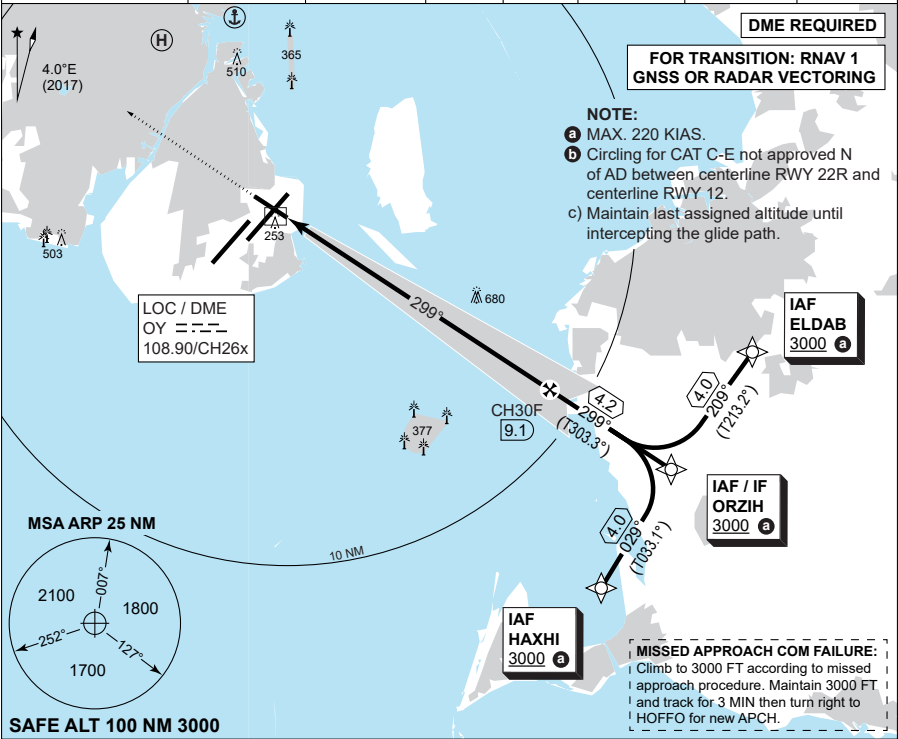
MIPS

INSTRUMENT APPROACH CHART

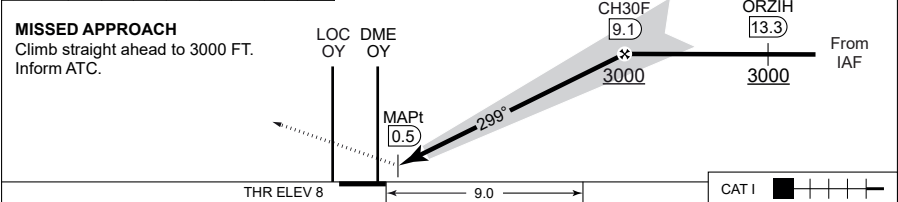
AD ELEV 17

ILS or LOC RWY 30
KASTRUP(EKCH)

COPENHAGEN APPROACH 119.805	KASTRUP ATIS (ARR) 122.755	KASTRUP FINAL 120.205	KASTRUP TWR 118.105	KASTRUP APRON 121.630
LOC/DME OY 108.90/CH26x	APP COURSE 299°	GS INTCP ALT 3000 FT	GS 3.00°	DA 208
		THR ELEV 8	ALS LENGTH 900 M	LDA 6873 FT



CDFA: 3.00° / 5.24%									
DME OY	2	3	4	5	6	7	8	9	
DIST THR	1.8	2.8	3.8	4.8	5.8	6.8	7.8	8.8	
ALT	640	960	1280	1600	1920	2240	2560	2870	



CATEGORY	A	B	C	D	E
S-ILS CAT I	208 - 550 200 (200-0.8/1.2)				
S-LOC 30	510 - 1500 493 (500-1.5/2.3)				
CIRCLING a	580 -1.5 563 (600-1.5)	590 -1.6 573 (600-1.6)	1010 -2.4 993 (1000-2.4)	1010 -3.6 993 (1000-3.6)	1180 -3.6 1163 (1200-3.6)

ILS or LOC RWY 30

55°37.08'N
012°39.36'E
6-12

KASTRUP (EKCH)



CHANGES: RNAV TRANSITION REVISED. WPT HOFFO AND COPHO WITHDRAWN FROM CHART. NEW WPT HAXHI AND ELDAB ADDED. OBST EKCH ATC TWR ADDED. FAF DME CORRECTED. EDITORIAL.

AIR COMMAND DENMARK - MIL AIM 25 DEC 2025

**WAYPOINT LIST
KASTRUP (EKCH)**

Kastrup (EKCH) waypoint coordinates:

		CODING	DISPLAY
VOXCI	IAF	55 47 58.4N 012 45 42.9E	55 47.974N 012 45.715E
ODLAQ	IAF	55 42 02.7N 012 57 40.8E	55 42.045N 012 57.680E
LICXI	IAF	55 41 14.6N 012 15 06.6E	55 41.243N 012 15.110E
BUDIQ	IAF	55 26 07.0N 012 21 44.7E	55 26.116N 012 21.744E
CATWU	IAF	55 25 54.6N 012 22 10.2E	55 25.910N 012 22.170E
HAXHI	IAF	55 26 16.4N 012 55 36.9E	55 26.274N 012 55.615E
EQJET	IAF	55 25 04.1N 012 30 36.6E	55 25.068N 012 30.611E
ZAQQI	IAF	55 30 58.4N 012 18 41.7E	55 30.973N 012 18.696E
EXTAR	IAF	55 46 53.3N 012 54 38.4E	55 46.888N 012 54.640E
TEBAQ	IAF	55 47 55.7N 012 22 51.1E	55 47.928N 012 22.852E
ELDAB	IAF	55 32 57.7N 013 03 17.8E	55 32.962N 013 03.297E
ORZIH	IAF/IF	55 29 37.1N 012 59 27.0E	55 29.619N 012 59.450E
RUCCI	IAF	55 47 06.2N 012 54 13.0E	55 47.103N 012 54.217E
VECJA	IAF	55 45 39.8N 012 16 02.5E	55 45.664N 012 16.041E
CH713	IF	55 30 09.7N 012 20 19.8E	55 30.162N 012 20.330E
CH710	IF	55 28 01.4N 012 24 39.6E	55 28.023N 012 24.661E
CH709	IF	55 27 48.6N 012 25 05.3E	55 27.810N 012 25.089E
CH610	IF	55 45 00.7N 012 51 42.3E	55 45.012N 012 51.705E
CH609	IF	55 45 14.8N 012 51 18.6E	55 45.246N 012 51.311E
CH513	IF	55 44 35.2N 012 18 58.6E	55 44.587N 012 18.977E

		CODING	DISPLAY
RW04L	THR	55 35 31.9N 012 36 12.7E	55 35.532N 012 36.212E
RW04R	THR	55 36 11.2N 012 37 59.0E	55 36.186N 012 37.983E
RW22L	THR	55 37 31.5N 012 40 03.3E	55 37.525N 012 40.055E
RW22R	THR	55 36 44.9N 012 38 05.6E	55 36.749N 012 38.094E
RW12	THR	55 37 26.9N 012 38 20.8E	55 37.449N 012 38.347E
RW30	THR	55 36 49.9N 012 40 01.0E	55 36.831N 012 40.017E

CHANGES: SPELLING OF TEBAC CORRECTED TO TEBAQ.

AIR COMMAND DENMARK - MIL AIM 19 FEB 2026

WAYPOINT LIST

KASTRUP (EKCH)



ODENSE (EKOD)

AERODROME CHART

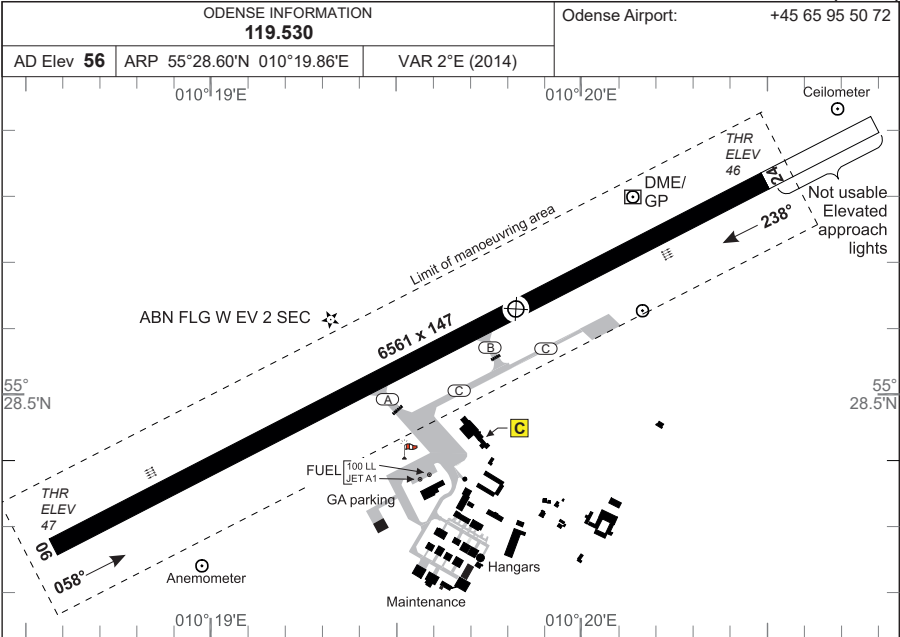
NOISE ABATEMENT

ILS or LOC RWY 24



AERODROME CHART

ODENSE / H C ANDERSEN (EKOD)



SRC (SIMPLE ALS)

90 3.00°

420 m 48 ft

CAT I (ALSF-1)

24 3.00° 46 ft

900 m

Caution - elevated approach lights

Diagram illustrating the layout of the runway lighting system, showing the transition from SRC (SIMPLE ALS) to CAT I (ALSF-1).

- SRC (SIMPLE ALS):** 420 m (48 ft) long, 3.00° angle.
- CAT I (ALSF-1):** 900 m (46 ft) long, 3.00° angle.
- Caution:** elevated approach lights.

AD PPR outside OPS hours. Request to be submitted not later than 1 hour before termination of service. Self-service AVBL for aircraft MTOW blw 2000 kg. VFR outside opening hours. Contact to EKOD outside Service Hours phone manned from 0600-2200 local time on TEL +45 65 95 50 72. NOTE: Opening charge will be collected outside regular Service Hours. Parachuting may take place. Drone operation may take place. Check NOTAM for EK R25 and EK R26.

1. IFR Arrival

1.1 Aircraft will normally be cleared by ACC KØBENHAVN to RAVSI or LAVBA.

1.2 Navigation aids designated for radio communication failure during IMC for arriving aircraft are:

FIX LAVBA when RWY 06 is expected RWY in use. FIX RAVSI when RWY 24 is expected RWY in use.

2. IFR Departure

2.1 Standard Instrument Departures (SID) have not been established.

2.2 Omnidirectional departures:

RWY 06/24: Climb straight ahead to at least 700 FT MSL before turn is commenced.

3. Helicopter

3.1 Within AFIS operating hours, contact AFIS before commencing hover taxi for information regarding drone activity.

MIPS		CIRCLING MINIMA (North of AD only)				
		A	B	C	D	E
		-1.5 444 (500-1.5)	-1.6 494 (500-1.6)	-2.4 734 (800-2.4)	-3.6 734 (800-3.6)	-3.6 834 (900-3.6)
500						

AERODROME CHART

ODENSE / H C ANDERSEN (EKOD)



CHANGES: IFR ARRIVAL NAVIGATION AIDS CHANGED. EDITORIAL.

AIR COMMAND DENMARK - MIL AIM 06 AUG 2028

NOISE ABATEMENT PROCEDURES

Noise abatement provision

1. Flights in the periods 2200-2300 (2100-2200) and 0500-0600 (0400-0500):
In the periods 2200-2300 (2100-2200) and 0500-0600 (0400-0500) the airport may be used by the following aircraft:

- Aeroplanes and helicopters with MTOM not exceeding 5700 KG.
- Propeller aeroplanes with MTOM below 9000 KG and noise certified according to ICAO annex 16, chapter 6 or chapter 10.
- Jet and turboprop aeroplanes (irrespective of MTOM) certified according to ICAO Annex 16, chapter 3 and which fulfil the lower limits of the requirements (flyover 89 EPNdB, lateral 94 EPNdB and Approach 98 EPNdB).

The number of those operations is limited to 100 per month.

2. Noise abatement provisions for ACFT with MTOM above 5700 KG.

3.1 Take-off RWY06:

- Departure towards ALSIE VOR: Turn right – VOR ODN R-229 – VOR ALS R-010 to ALSIE VOR.

3.2 Take-off RWY24:

- Right turn must not be commenced until after VOR/DME ODN R-239/15NM.
- Departure towards ALSIE VOR: Left turn must not be commenced until after VOR/DME ODN R-239/16NM.
- Departure towards TRANO VOR and KORSA VOR: Left turn must not be commenced until after VOR/DME ODN R-239/14NM if the aeroplane in question is a jet aeroplane noise certified according to ICAO Annex 16, chapter 2.

3. School and training flights:

School and training flights are permitted in the period 0600-2200 (0500-2100). For big jet aeroplanes (MTOM above 34000 KG or with more than 19 seats) school and training flights are permitted only MON-FRI EXC HOL in the period 0600-2100 (0500-2000). Due to environmental reasons traffic circuits in connection with landing exercises RWY 06/24 shall take place alternately north and south of the runway. PPR to be submitted within operational hours.



MIPS

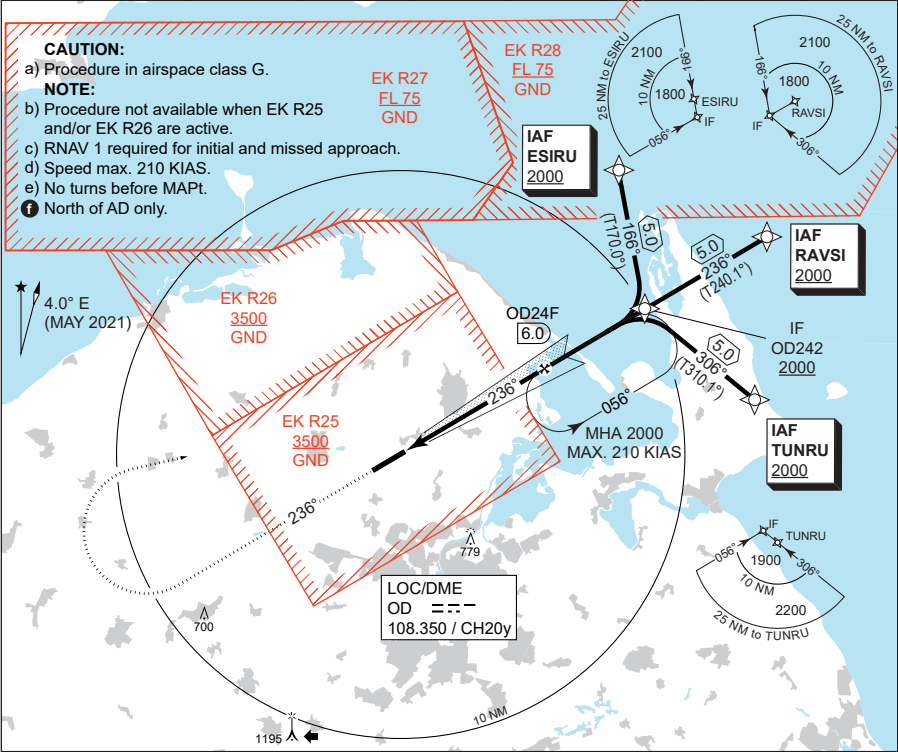
INSTRUMENT APPROACH CHART

AD ELEV 56

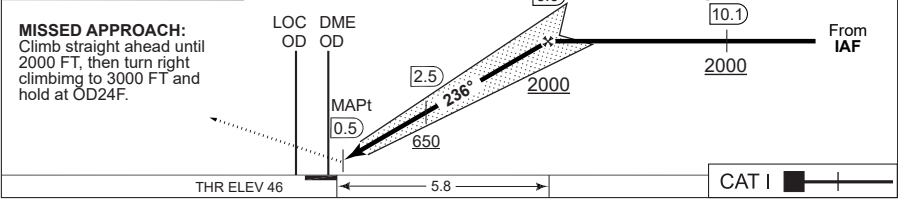
ILS or LOC RWY 24

ODENSE / H C ANDERSEN (EKOD)

COPENHAGEN CONTROL 360.100 133.150				ODENSE INFORMATION 119.530			
LOC/DME OD 108.35/CH20y	APP COURSE 236°	GS INTCP ALT 2000 FT	GS 3.00°	DA 246	THR ELEV 46	ALS LENGTH 900 M	LDA 6053 FT



CDFA: 3.00° / 5.24%							TA 3000 GS 3.00° RDH 57
DME OD	2	3	4	5	6		
DIST THR	1.8	2.8	3.8	4.8	5.8		
ALT	690	1010	1320	1640	1960		



CATEGORY	A	B	C	D	E
S-ILS 24	246 - 550 200 (200-0.8/1.2)				
S-LOC 24	380 - 800 334 (400-0.8/1.5)				
CIRCLING	500 - 1.5 444 (500-1.5)	550 - 1.6 494 (500-1.6)	790 - 2.4 734 (800-2.4)	790 - 3.6 734 (800-3.6)	890 - 3.6 834 (900-3.6)

ILS or LOC RWY 24

55°28.60'N
010°19.86'E
8-5

ODENSE / H C ANDERSEN (EKOD)



CHANGES: ODENSE INFORMATION FREQ CHANGED.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

ROSKILDE (EKRK)

AERODROME CHART

ILS or LOC RWY 11 (CAT C-E)

ILS or LOC RWY 21

EKRK OPS

NOISE ABATEMENT

EKRK ARRIVAL

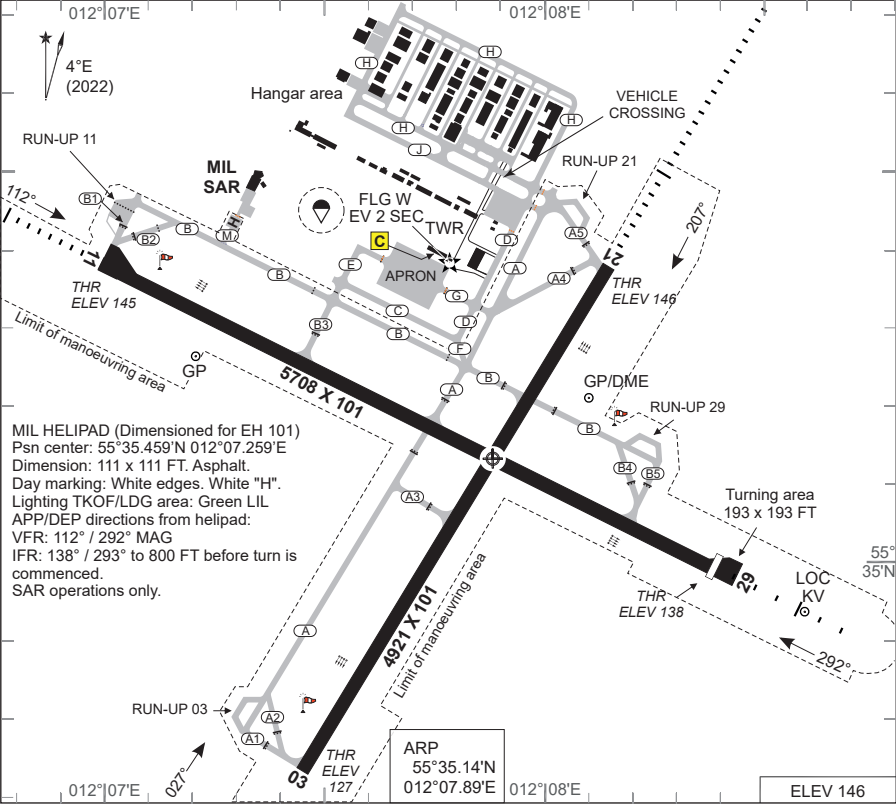
EKRK DEPARTURE

IFR DEP (JET)



AERODROME CHART

ROSKILDE (EKRK)



RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING						THRPSN	
		PSN	TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE	END		
03	30F/C/X/T	A1/2	4921	4921	4921	4921	127	LIH	3.00°			LIH	LIH	55°34.70'N 012°07.43'E	
		A3	2483	2483	2483										
21		A4/5	4921	4921	4921	4921	146	LIH	3.00°			LIH	LIH	55°35.40'N 012°08.16'E	
		B	3664	3664	3664										
11	36F/C/X/T	B1/2	5708	5708	5902	5708	145	LIH	3.00°			LIH	LIH	55°35.40'N 012°06.94'E	
		B3	3864	3864	4058										
		A	2673	2673	2867										
			5902	5902	5902	5708	138	LIH	3.00°			LIH	LIH	55°34.98'N 012°08.42'E	
29		B4/5	4921	4921	4921										
	A	3070	3070	3070											

ROSkilde ATIS 123.805
ROSkilde TWR 118.905 (119.655)
ROSkilde APP 125.530
ROSkilde HANDLING 131.555 (Handling, FPL etc.)
COPENHAGEN INFORMATION 127.080 (Civil)

TAXI REGULATIONS
Incoming traffic shall taxi via TWY C and TWY D, and outgoing traffic via TWY A and TWY B unless otherwise instructed by ATC.

AERODROME CHART

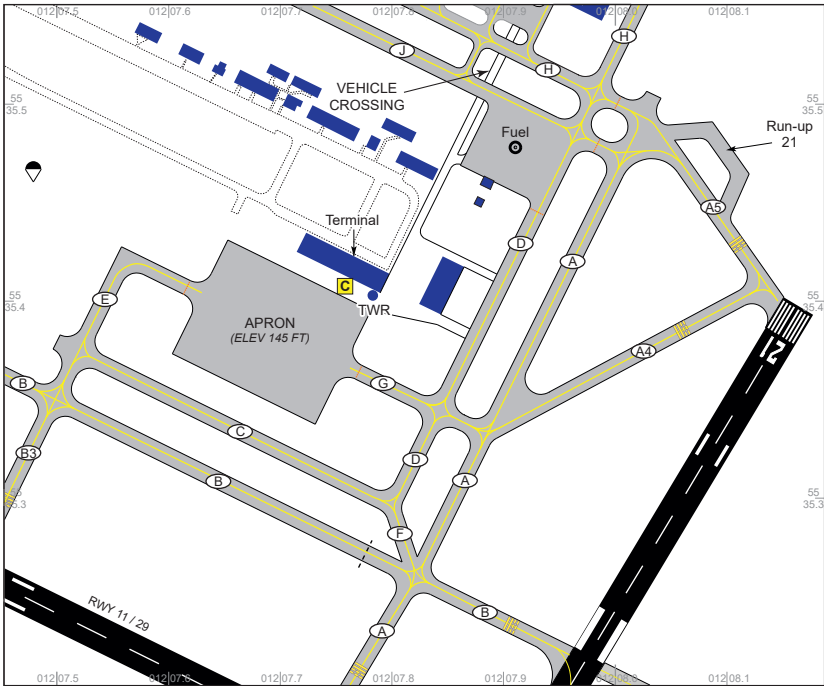
ROSkilde (EKRK)



CHANGES: PRECISION APPROACH PATH INDICATOR (PAPI) SYMBOLS ADDED. EDITORIAL.

AIR COMMAND DENMARK - MIL AIM 06 AUG 2028

ROSKILDE OPERATIONS

**1. GENERAL**

Noise Abatement Provisions at EKRK are strict and comprehensive. Consult page 9-4 through 9-6 Noise Abatement Provisions before flight.

2. TAXI REGULATIONS

Incoming traffic shall taxi via TWY C and TWY D, and outgoing traffic via TWY A and TWY B unless otherwise instructed by ATC. ("IN via INNER" and "OUT via OUTER").

3. REDUCTION OF LANDING DISTANCE AVAILABLE

In order to increase the runway capacity, the Landing Distance Available can be reduced for arriving aircraft.

When the Landing Distance Available has been reduced for a landing aircraft on runway 03 this runway may simultaneously be crossed by departing, landing or taxiing aircraft on runway 11/29 and by taxiing aircraft on taxiway Bravo.



When the Landing Distance Available has been reduced for a landing aircraft on runway 11 this runway may simultaneously be crossed by departing, landing or taxiing aircraft on runway 03/21.

Air Traffic Control will assess in which cases the procedures for reduction of Landing Distance Available can be applied. However, the Pilot-in-Command of the aircraft involved is responsible for determining whether the reduced Landing Distance Available in the actual situation is adequate for the aircraft in question.

The procedure for reduction of Landing Distance Available, will be used on the following conditions:

a) Landing Distance Available is reduced only during the daily period for VFR flights.

b) Landing Distance Available is reduced only when visual meteorological conditions (VMC) exists, and only when the pilots in command of the aircraft involved are able to see the other aircraft

c) If reduced braking action, due to e.g. rain or slush, is not reported and if measured, the coefficient, is 0.40 or above.

d) Two-way radio communication must be established between Roskilde Tower and the aircraft involved on the same frequency.

e) The landing aircraft will in due time be asked whether the reduction of the Landing Distance Available is acceptable.

Following phraseology will be used:

For Runway 03: "CONFIRM ABLE TO ACCEPT A SHORT LANDING RUNWAY 03, SO AS TO STOP THE AIRCRAFT NOT LATER THAN TAXIWAY A3. LANDING DISTANCE AVAILABLE 740 METRES".

For Runway 11: "CONFIRM ABLE TO ACCEPT A SHORT LANDING RUNWAY 11, SO AS TO STOP THE AIRCRAFT NOT LATER THAN TAXIWAY A. LANDING DISTANCE AVAILABLE 940 METRES".

f) Traffic information will be issued to both aircraft involved.

g) Involved aircraft must be in sight from Roskilde Tower from the time, where traffic information are issued and until landing.

h) Landing clearance will be issued with following phraseology:

For Runway 03: "STOP THE AIRCRAFT NOT LATER THAN TAXIWAY A3, RUNWAY 03 CLEARED TO LAND".

For Runway 11: "STOP THE AIRCRAFT NOT LATER THAN TAXIWAY A, RUNWAY 11 CLEARED TO LAND".

i) The condition as well as the clearance must be read back by the landing aircraft.



NOISE ABATEMENT PROVISIONS

1.1 General provisions

1.1.1 Deviations from the Noise Abatement Provisions are permitted when necessary in connection with:

- Take-off and landing for vital flights, such as **search and rescue, hospital flights, head of state, medevac, environmental monitoring flights or humanitarian flights.**
- Take-off and landing in connection with security control of the airport area.



1.1.2 Overflying the towns Gadstrup, Snoldelev, Tjæreby, Tune, Vindinge and Vor Frue should be avoided in connection with VFR take-off and landing. This provision is valid for all VFR flights to and from Roskilde Airport and for all flights (IFR and VFR) flying visual aerodrome traffic circuits for landing exercises.

1.1.3 Violation of the Noise Abatement Provisions can be punished in pursuance of the Regulations for Civil Aviation BL 3-40 "Abatement of Noise from Controlled Aerodromes".



1.2 Jet aircraft

1.2.1 Jet aircraft may operate only, if they are noise certificated according to ICAO Annex 16, chapter 2 or chapter 3, and if they comply with the noise criteria given in ICAO Annex 16, chapter 2 for aircraft with a MTOM up to 34.000 KG.

1.2.2 School and training flights are prohibited with jet aircraft with a MTOM above 5700 KG, unless it can be documented that the noise level for the aircraft concerned is less than or equal to 80 dB (A), cf. Guidance Material no 5/1994 - issued by the Danish Environmental Protection Agency - concerning noise from aerodromes.

1.2.3 Before executing VFR school and training flights the Pilot-in-Command shall obtain more specified instructions from the Airport Office/Briefing.

1.2.4 VFR landing exercises carried out in connection with school flights are permitted only as stated in item 1.3.4.

1.3 Propeller and turboprop aeroplanes

1.3.1 After take-off the Pilot-in-Command should aim to use an air speed giving the best rate of climb.

1.3.2 School and training flights are prohibited with aircraft with a MTOM above 5.700 KG, unless it can be documented that the noise level for the aircraft concerned is less than or equal to 80 dB (A), cf. Guidance Material no 5/ 1994 - issued by the Danish Environmental Protection Agency - concerning noise from aerodromes (noise class I, II and III).

1.3.3 Before executing VFR school and training flights the Pilot-in-Command shall obtain more specified instructions from the Airport Office /Briefing.

1.3.4 VFR landing exercises and continuous approaches carried out in connection with school flights are permitted only:

a. From 1 MAY to 31 AUG:

MON-FRI, EXC HOL	0700-1900 Danish time
SAT, EXC HOL	0700-1400 Danish time

b. From 1 SEP to 30 APR:

MON-FRI, EXC HOL	0700-2200 Danish time
SAT, EXC HOL	0700-1400 Danish time

VFR landing exercises and continuous approaches carried out in connection with school flights are also permitted - from 1 SEP to 30 APR on certain Saturdays within the period 1400-1900 Danish time - by arrangement with the Airport Office.

1.3.4.1 VFR landing exercises and continuous approaches carried out by a holder of a licence in order to maintain the privileges of the licence are permitted all days between 0700-2200. If performed outside the times specified in 1.3.4, the pilot license number must be submitted to the ARO.

1.3.4.2 IFR landing exercises and continuous approaches are permitted only:

MON-FRI, EXC HOL	H24
SAT, EXC HOL	0700-1400 Danish time

IFR landing exercises and continuous approaches are also permitted in the period 1 SEP to 30 APR from 1400-1900 Danish time on certain Saturdays - by arrangement with the Airport Office.



1.4 Helicopters

1.4.1 School and training flights with helicopters with MTOM above 5.700 kg are prohibited.

1.4.2 Before executing VFR school and training flights, the Pilot-in-Command shall obtain more specified instructions from the Airport Office/Briefing.

1.4.3 VFR landing exercises carried out in connection with school flights are permitted only as stated in item 1.3.4.

1.5 Reporting

1.5.1 Reporting by the Pilot-in-Command to the Danish CAA.

1.5.1.1 The Pilot-in-Command shall as fast as possible report to the Danish CAA when it has not been possible to comply with the provision in item 1.1.2 due to safety reasons.

1.5.2 Reporting by the Air Navigation Services KØBENHAVN to the Danish CAA.

1.5.2.1 The Air Navigation Services KØBENHAVN shall notify The Danish CAA of every clearance deviating from the above mentioned provisions.

1.5.2.2 The Air Navigation Services KØBENHAVN shall notify the Danish CAA of every clearance according to the provision in item 1.1.1.

1.5.2.3 The Air Navigation Services KØBENHAVN shall notify the Danish CAA when observing the towns overflowed - mentioned in item 1.1.2 - in connection with VFR take-off or landing.

1.5.3 Københavns Lufthavne A/S (Copenhagen Airports) reporting to the Danish CAA.

1.5.3.1 Københavns Lufthavne A/S (Copenhagen Airports) shall notify the Danish CAA when it has been ascertained that jet aircraft has been operating against the regulation in item 1.2.1.

1.5.3.2 Københavns Lufthavne A/S (Copenhagen Airports) shall notify the Danish CAA when it has been ascertained that aircraft has executed school and training flights against the provisions in item 1.2.2, 1.3.2 or 1.4.1.

1.5.3.3 Københavns Lufthavne A/S (Copenhagen Airports) shall notify the Danish CAA when it has been ascertained that school flight has taking place against the provisions in item 1.2.4, 1.3.4 or 1.4.3.

1.5.4 The Danish CAA follow-up of reports.

1.5.4.1 The Danish CAA will make further investigation based on the received reports. The investigation will include an evaluation of whether liability to punishment shall be exercised according to Regulations for Civil Aviation BL 5-40.



ROSKILDE ARRIVAL**Flight Planning**

IFR traffic to København/Roskilde shall be planned via the appropriate primary holding (TIDVU, ERNOV, KOR or FISCO) via routes listed below. Holdings are described on page 9-8.

Note: Traffic via AALBORG VOR/DME shall flight plan via T551-TNO to FISCO. Traffic via RØNNE VOR shall flight plan via L983-ROBUS-DCT-KOR.

TIDVU holding and ERNOV holding are inside Swedish territory. Operators not permitted to overfly Swedish territory shall file outside Swedish territory.

Filing of Flight Plan

Traffic to København/Roskilde shall include appropriate primary holding in the flight plan.

Performance Restrictions/Level Restrictions

Descend from cruising level/top of descend shall be planned so as to meet the following level restrictions:

ARR via	Level restriction	Primary Holding
ROBUS	MAX FL 70	KOR
	MAX FL 70 (20 NM prior to KOR)	KOR
TNO	MAX FL70 (20 NM prior to TNO)	FISCO

Radio communication failure during IFR approach.

In case of radio communication failure, the latest received and acknowledged level shall be maintained until the appropriate primary holding. In TIDVU holding descend to FL 70. In ERNOV holding descend to FL 100. In FISCO and KOR holding

Ground handling

It is mandatory for all aircraft above 3000 kgs to contact "Roskilde Handling" 15 MIN prior to arrival, stating ETA, POB, fuel requirement, intention and to receive parking instructions. Ground handling is mandatory for non-resident commercial and private operators of aircraft with MTOM above 3000 kgs when using main apron facilities.



Primary holdings for København/Roskilde

Holding name	Inbound track (MAG)	Turn	MAX IAS	MNM/MAX level Time	Entry procedure
TIDVU 55° 24.678'N 013° 33.452'E	294	Right	230	5000FT 1.5 MIN	Omni-directional
FISKO TNO VOR R-112/12.5 DME. KV 13.2 DME 55° 41.083'N 011° 46.267'E	112	Right	210	3000FT/FL140 1 MIN	Direct via TNO R-112
KORSA KOR VOR/DME 55° 26.362'N 011° 37.892'E	298	Right	210	3000FT/FL140 1 MIN	Omni-directional
ERNOV 56° 10.132'N 012° 34.427'E	179	Left	230	FL 100 /- 1.5 MIN	Omni-directional

Secondary Holdings for København/Roskilde

Holding name	Inbound track (MAG)	Turn	MAX IAS	MNM/MAX level Time	Entry procedure
ROSILDE L RK 55° 37.388'N 011° 59.830'E	112	Right	210	2000FT/6000FT 1 MIN	Omni-directional



ROSKILDE DEPARTURE

Flight Planning

Standard Instrument Departures are not established.

1. For destinations outside Copenhagen Area and outside the lateral limit of Malmö TMA, flight planning shall be via one of the Departure routes. See below.
2. For destinations within Copenhagen Area and within the lateral limit of Malmö TMA, flights may be planned direct between significant points/aerodromes.

PROP AIRCRAFT			JET AIRCRAFT		
ROUTE	RMK	NOTE	ROUTE	RMK	NOTE
NOVPO DCT VEDAR			NOVPO DCT VEDAR		
ERNOV	Only AVBL FL090 and below		ERNOV	Only AVBL FL090 and below	
KEMAX			KEMAX		
SIMEG		A	SIMEG		A
SALLO		A	SALLO		A
TNO	Only AVBL FL060 and below		TNO	Only AVBL FL060 and below	
DOBEL DCT ODDON			KOR	Only AVBL FL060 and below	
KOR	Only AVBL FL060 and below		BISTA DCT NEXEN or BETUD	Only AVBL FL070 and above	A
MAXEL DCT KOPEX or BETUD	Only AVBL FL070 and above	A	TOBIS DCT LANGO	Only AVBL FL070 and above	
MIRGO DCT GOLGA	Only AVBL FL070 and above		DOBEL DCT ODDON		
			MIRGO DCT GOLGA	Only AVBL FL070 and above	

Notes:

A. Departure route BETUD available only to operators not permitted to fly over Swedish territory. Generally Departure route SALLO/SIMEG applies. Flight planning via Departure route BETUD is restricted to MAX FL 70 until BETUD.

ATC clearance

For flights to destinations outside Copenhagen Area and outside the lateral limit of Malmö TMA, ATC clearance will be issued via the departure routes based on VOR radials or DCT. Traffic via DOBEL (below FL065), KOR and TNO can expect a maximum of 5000 FT until leaving Copenhagen Area.

Omnidirectional Departure from Roskilde

Climb straight ahead to at least 800 FT MSL before turn is commenced.

Departure from military helipad:

Departure 140: Climb on track 139 to 800 FT MSL before turn is commenced.

Departure 295: Climb on track 294 to 800 FT MSL before turn is commenced.



Radar vectoring

Radar vectoring may be used to expedite traffic. Heading deviations after departure shall not be initiated below 800 FT MSL.

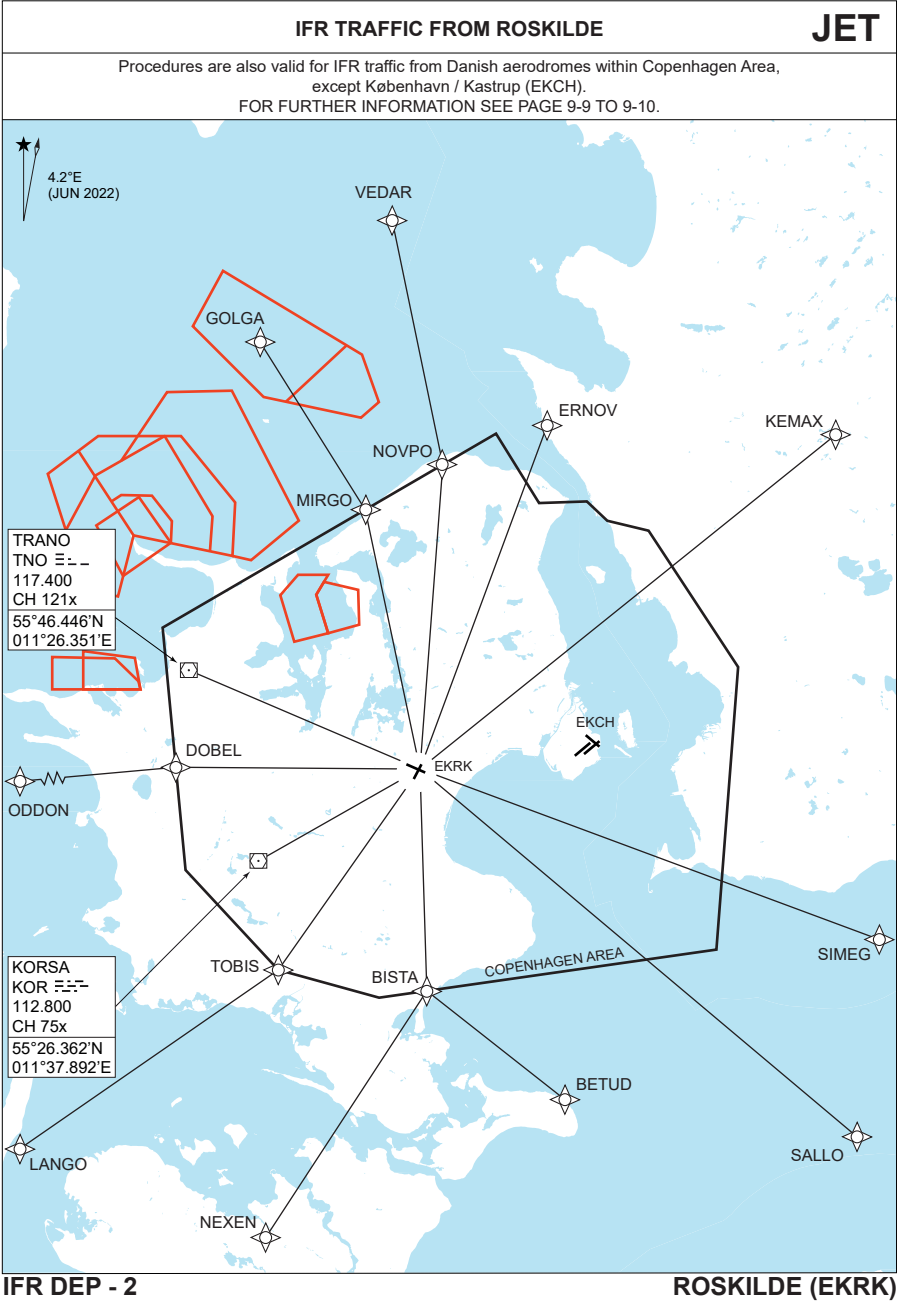
Speed limit: FL 70 and below: MAX IAS 250 KT.

Radio Communication Failure

1. Flights leaving Copenhagen Area and Malmö TMA:
In case of radio communication failure after departure, maintain for a period of three minutes the cleared level. Then climb to 4000 FT MSL or maintain cleared level if higher. Maintain until final waypoint of the departure route, then climb to requested flight level. In case of radio communication failure after departure, while under radar vectoring, aircraft shall proceed in the most direct manner to the departure route filed and climb according to above described procedure.
2. Flights with entire route within Copenhagen Area and Malmö TMA:
In case of radio communication failure after departure, maintain for a period of three minutes the cleared level, then continue in accordance with the current flight plan. In case of radio communication failure after departure, while under radar vectoring, aircraft shall proceed in the most direct manner in accordance with the current flight plan and climb according to above described procedure.

WAYPOINT LIST			
WAY-POINT	LATTITUDE/LONGITUDE	WAY-POINT	LATTITUDE/LONGITUDE
BETUD	55° 00.435'N 012° 31.346'E	MIRGO	56° 02.142'N 011° 59.882'E
BISTA	55° 12.203'N 012° 07.383'E	NEXEN	54° 48.647'N 011° 37.515'E
DOBEL	55° 36.365'N 011° 23.396'E	NOVPO	56° 06.400'N 012° 14.467'E
ERNOV	56° 10.132'N 012° 34.427'E	ODDON	55° 34.861'N 010° 39.179'E
GOLGA	56° 19.984'N 011° 41.703'E	SALLO	54° 55.000'N 013° 23.172'E
KEMAX	56° 07.587'N 013° 27.230'E	SIMEG	55° 15.002'N 013° 30.072'E
KOPEX	54° 58.223'N 011° 28.061'E	TNO	55° 46.446'N 011° 26.351'E
KOR	55° 26.362'N 011° 37.892'E	TOBIS	55° 15.141'N 011° 40.577'E
LANGO	54° 56.738'N 010° 51.378'E	VEDAR	56° 31.900'N 012° 07.417'E
MAXEL	55° 12.555'N 011° 54.149'E		



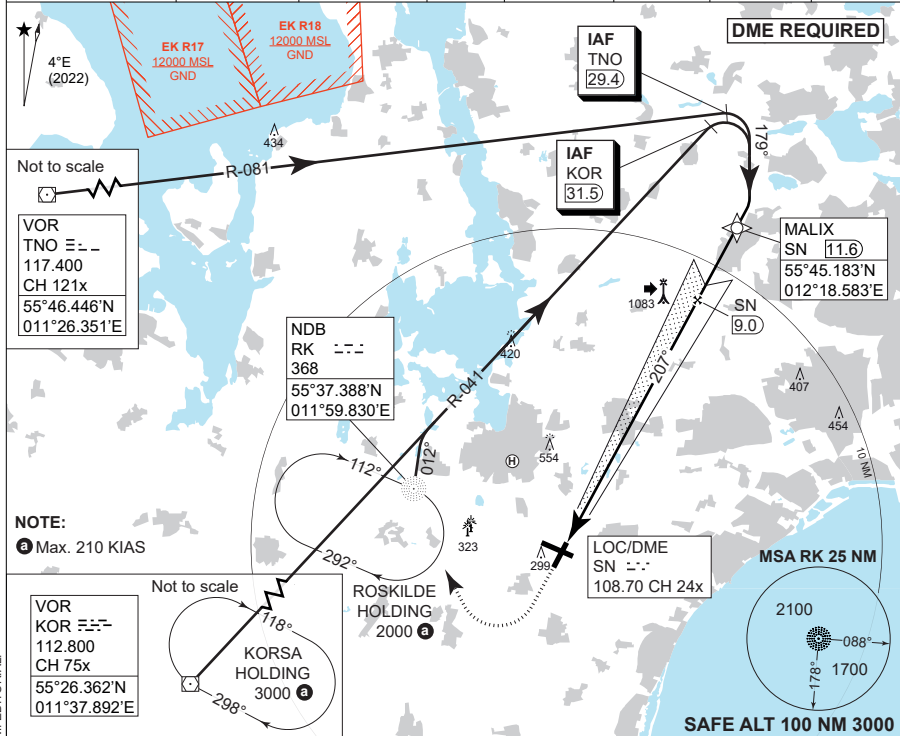


INSTRUMENT APPROACH CHART

AD ELEV 146

ILS or LOC RWY 21
ROSKILDE (EKRK)

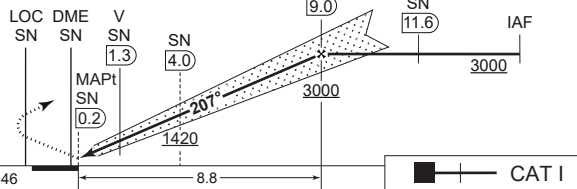
COPENHAGEN APPROACH 119.805		ROSKILDE ATIS 123.805		ROSKILDE APPROACH 125.530		ROSKILDE TOWER 118.905 119.655	
LOC/DME SN 108.70 CH 24x	APP COURSE 207°	GS INTCP ALT 3000 FT	GS 3.00°	DA 346	THR ELEV 146 FT	ALS LENGTH 820 M	LDA 4921 FT



LOC ONLY CDFA 3.0° / 5.24%							
DME SN	2	3	4	5	6	7	8
DIST TO THR	1.8	2.8	3.8	4.8	5.8	6.8	7.8
ALT	780	1100	1420	1730	2050	2370	2680

TA 5000
GS 3.00
RDH 50

MISSED APPROACH
Climb to 500 FT then right turn climbing to 2000 FT to NDB RK.



CATEGORY		A	B	C	D	E
MIPS	S-ILS 21	346 - 550 200 (200-0.8/1.2)				
	S-LOC 21	540 - 1100 394 (400-1.1/1.8)				
	CIRCLING	610 - 1.5 464 (500-1.5)	850 - 1.6 704 (800-1.6)	950 - 2.4 804 (900-2.4)	950 - 3.6 804 (900-3.6)	1050 - 3.6 804 (1100-3.6)

ILS or LOC RWY 21

55°35.13'N
012°07.89'E
9-24

ROSKILDE (EKRK)

CHANGES: APPROACH LIGHTING SYSTEM (ALS) LENGTH REDUCED TO 820 M. EDITORIAL.

AIR COMMAND DENMARK - MIL AIM 06 AUG 2026

BORNHOLM / RØNNE (EKRN)

AERODROME CHART

ILS or LOC RWY 11

ILS or LOC RWY 29

HPMA TACAN RWY 11

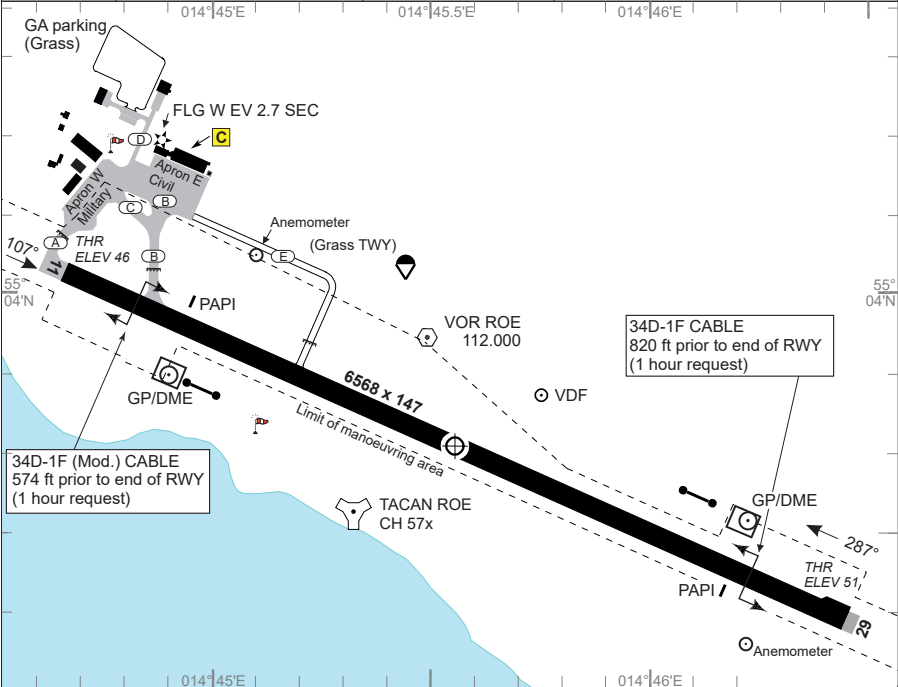
HPMA TACAN RWY 29



AERODROME CHART

ROENNE (EKRN)

RØNNE TOWER 118.330 (VDF) 257.800			BORNHOLM HANDLING 131.550			REMARK: Airport phone: +45 56 95 26 26
AD Elev 52	ARP	55°03.80'N 014°45.58'E	VAR	7°E (MAY 2025)		



RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING					THR PSN	
		PSN	TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
11	38 F/B/X/T	THR				6568	46	LIH	3.00°			LIH	LIH	55°04.01'N 014°44.71'E
		A	6568	6568	6568									
		B	5928	5928	5928									
29		THR	6568	6568	6568	6568	51	LIH	3.00°			LIH	LIH	55°03.58'N 014°46.43'E

Flight Procedures

1. IFR Arrival
- 1.1 Aircraft will normally be cleared by SWEDEN CONTROL to ROE VOR.
- 1.2 Navigation aid designated for radio communication failure during IMC for arriving aircraft is NDB FAU.
2. IFR Departure
- 2.1 Standard Instrument Departures (SID) have not been established.
- 2.2 Omnidirectional departures
- RWY 11: Climb straight ahead to at least 700 FT MSL before turn is commenced.
- RWY 29: Climb straight ahead to at least 500 FT MSL before turn is commenced. Procedure design gradient 4.5% up to 800 FT MSL, due to cranes 525 FT - 2.1 NM NW from THR.

MIPS	CIRCLING MINIMA (SOUTH of aerodrome only)								
A		B	C	D	E				
500	-1.5 450 (500-1.5)	700	-1.6 650 (700-2.3)	800	-2.4 750 (800-2.7)	800	-3.6 750 (800-3.6)	900	-3.6 850 (900-3.6)

AERODROME CHART

ROENNE (EKRN)



CHANGES: APRON E CHANGED TO APRON E CIVIL APRON W CHANGED TO APRON W MILITARY.

AIR COMMAND DENMARK - MIL AIM 11 JUN 2025

MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 11
ROENNE (EKRN)

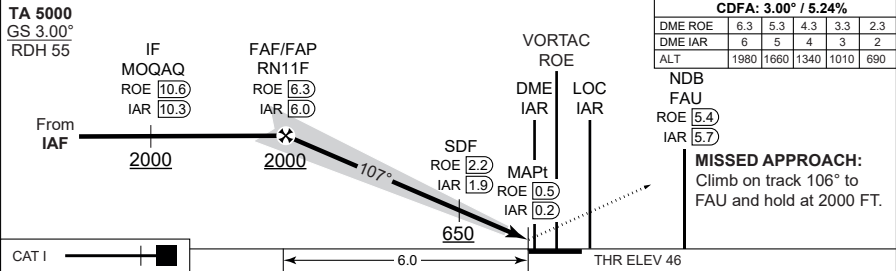
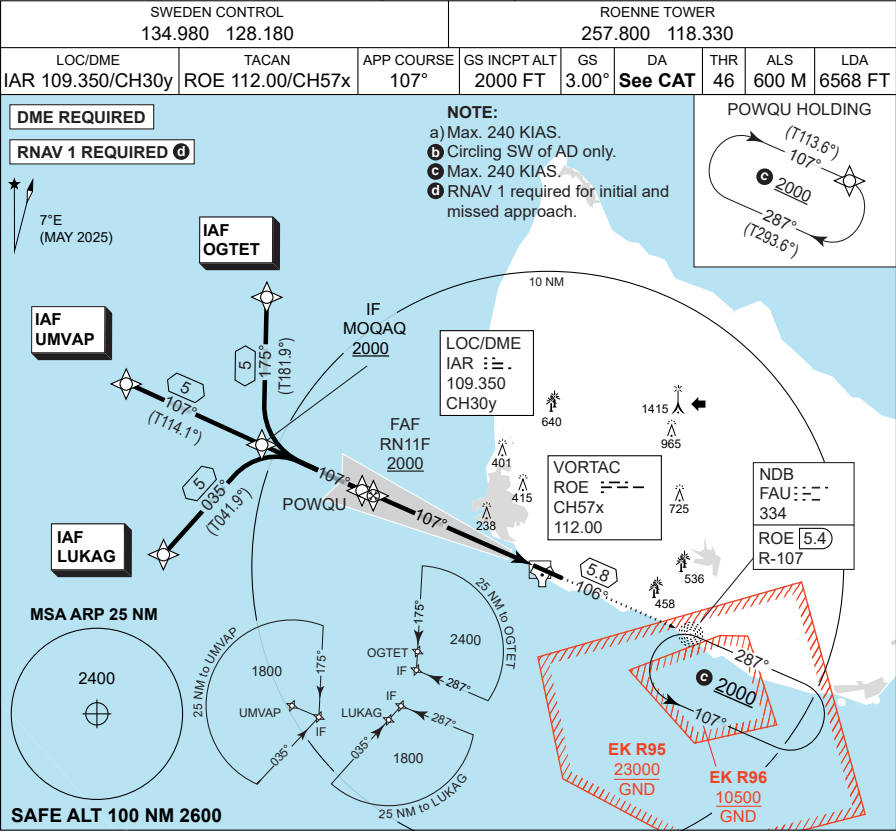


Table with 6 columns: CATEGORY, A, B, C, D, E. Rows include S-ILS 11, S-LOC 11, and CIRCLING with associated altitudes and speeds.

ILS or LOC RWY 11 ROENNE (EKRN)

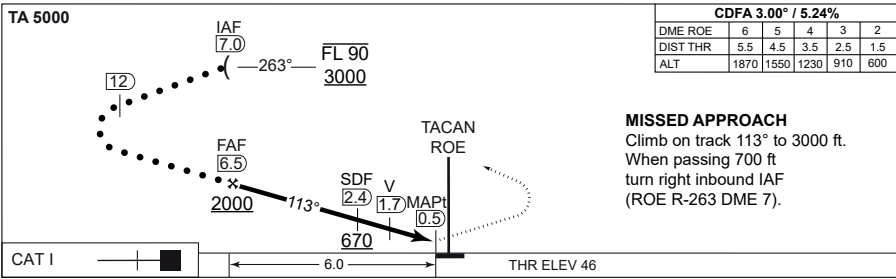
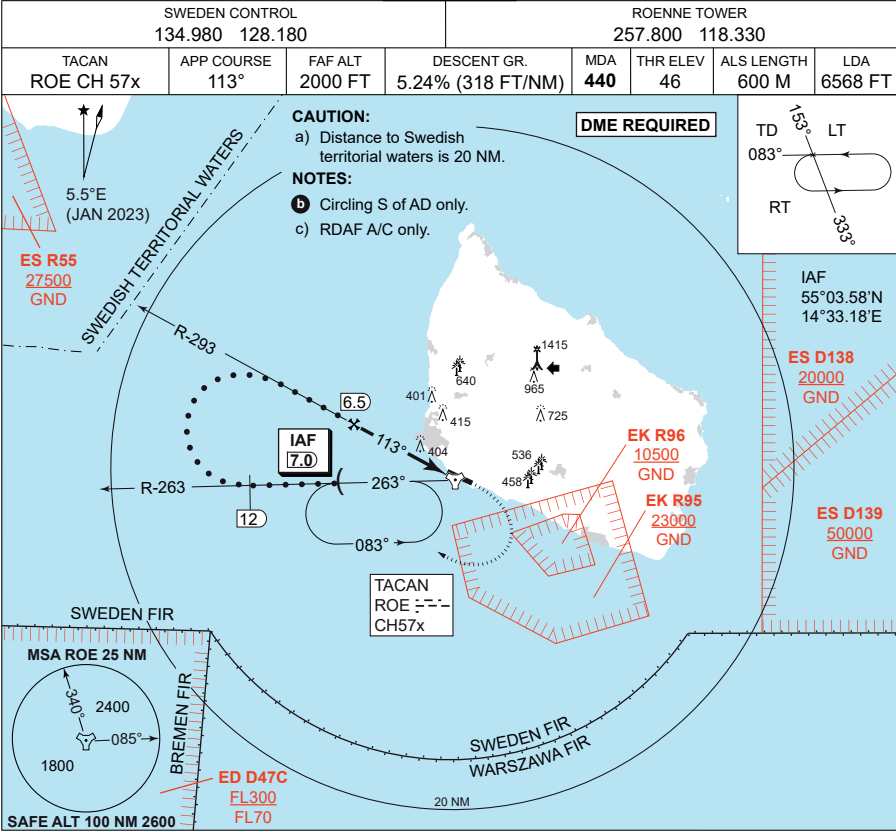
CHANGES: TAs ADDED, MAX HLDG ALTITUDE WITHDRAWN, MISSED APPROACH INSTRUCTION CHANGED.

AIR COMMAND DENMARK - MIL AWM 06 AUG 2026



MIPS
INSTRUMENT APPROACH CHART

HPMA TACAN RWY 11
ROENNE (EKRN)



CATEGORY	HPMA
S-TACAN 11	440 - 1400 394 (400-1.4/1.8)
CIRCLING	610 - 3.2 558 (600-3.2)

HPMA TACAN RWY 11

55°03.80'N
014°45.58'E
10-4

ROENNE (EKRN)



CHANGES: NEW PROCEDURE DEVELOPED ACCORDING TO HPMA CRITERIA

AIR COMMAND DENMARK - MIL AIM 03 OCT 2024

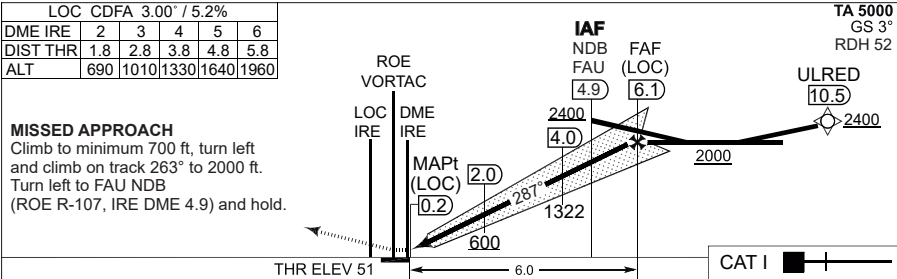
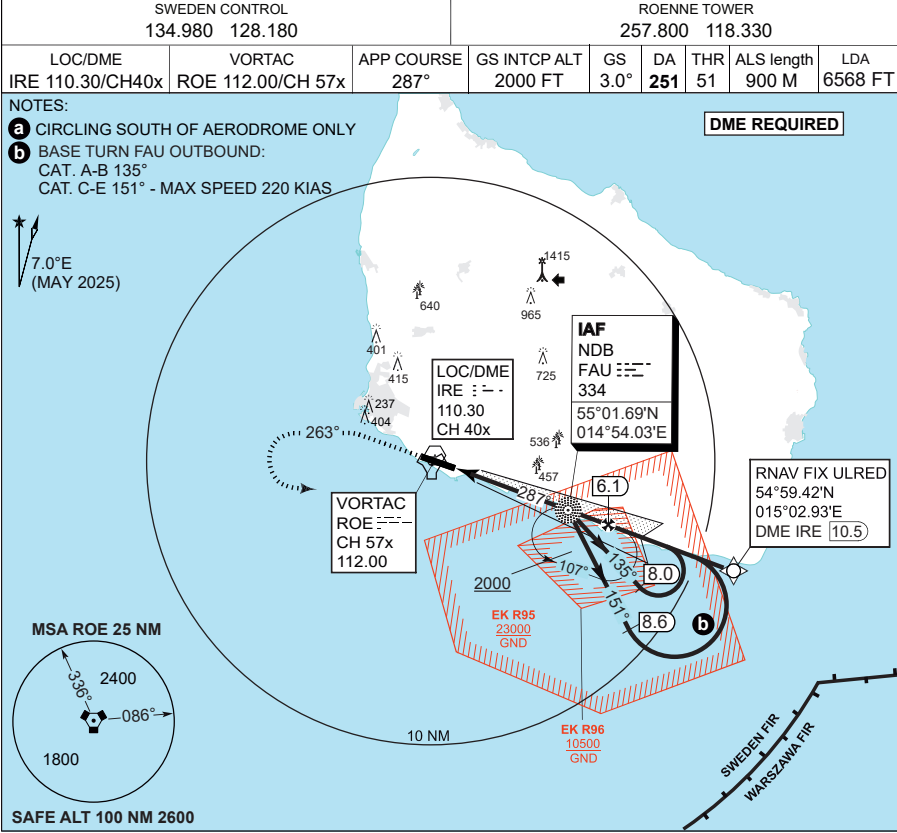
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 52

ILS or LOC RWY 29

ROENNE (EKRN)



CATEGORY	A	B	C	D	E
S-ILS 29	251 - 550 200 (200-0.8/1.2)				
S-LOC 29	400 - 900 349 (400-0.9/1.6)				
CIRCLING a	500 - 1.5 450 (500-1.5)	700 - 2.3 650 (700-2.3)	800 - 2.7 750 (800-2.7)	800 - 3.6 750 (800-3.6)	900 - 3.6 850 (900-3.6)

ILS or LOC RWY 29

55 03.80'N
014 45.58'E
10-7

ROENNE (EKRN)

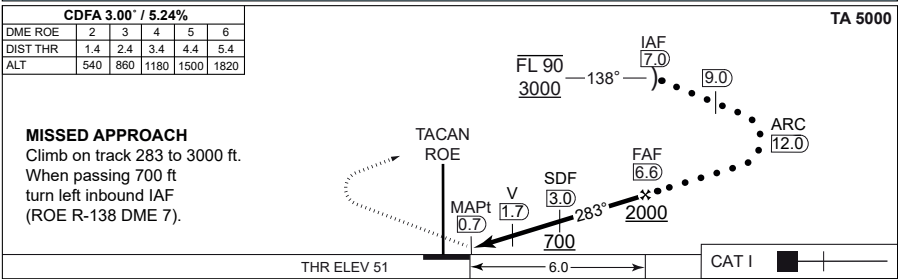
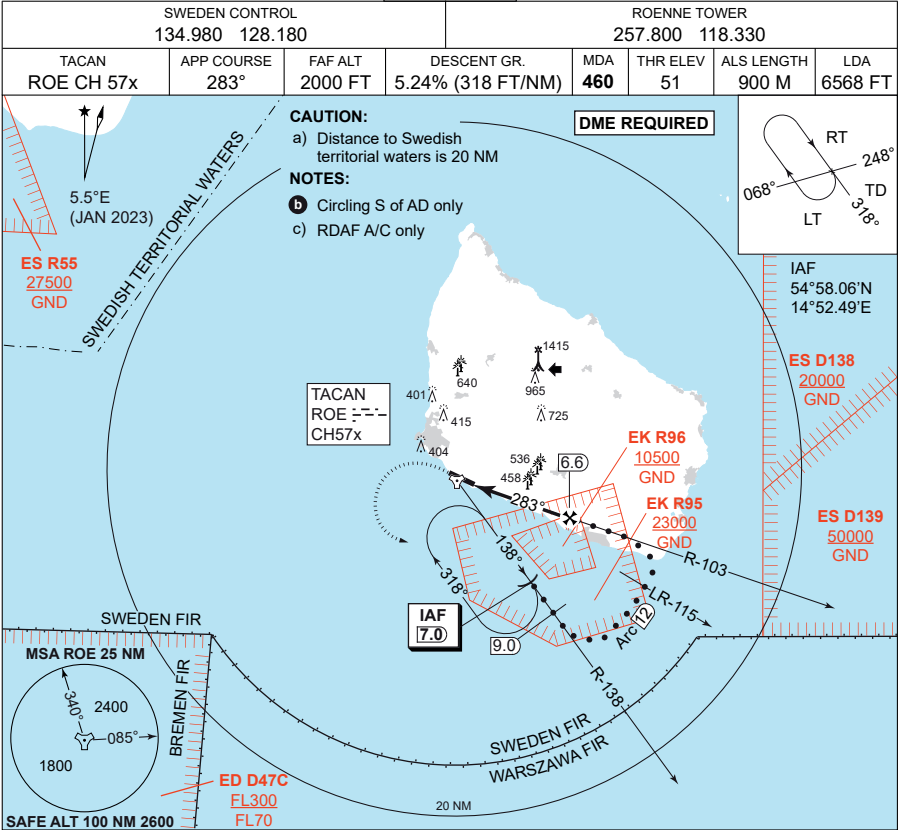


CHANGES: MAX HLDG ALTITUDE WITHDRAWN.

AIR COMMAND DENMARK - MIL AIM 06 AUG 2026

MIPS
INSTRUMENT APPROACH CHART

HPMA TACAN RWY 29
ROENNE (EKRN)



CATEGORY	HPMA
S-TACAN 29	460 - 1200 409 (500-1.2/1.9)
CIRCLING	610 - 3.2 558 (600-3.2)

HPMA TACAN RWY 29 55°03.80'N 014°45.58'E 10-9 ROENNE (EKRN)



CHANGES: PAGE NR

AIR COMMAND DENMARK - MIL AIM 10 JUL 2025

SKRYDSTRUP (EKSP)

AERODROME CHART

ILS or LOC RWY 10L

ILS or LOC RWY 28R

ILS or LOC Z RWY 10L

ILS or LOC Z RWY 28R

HPMA TACAN RWY 10L

HPMA TACAN RWY 28R

TACAN RWY 10L

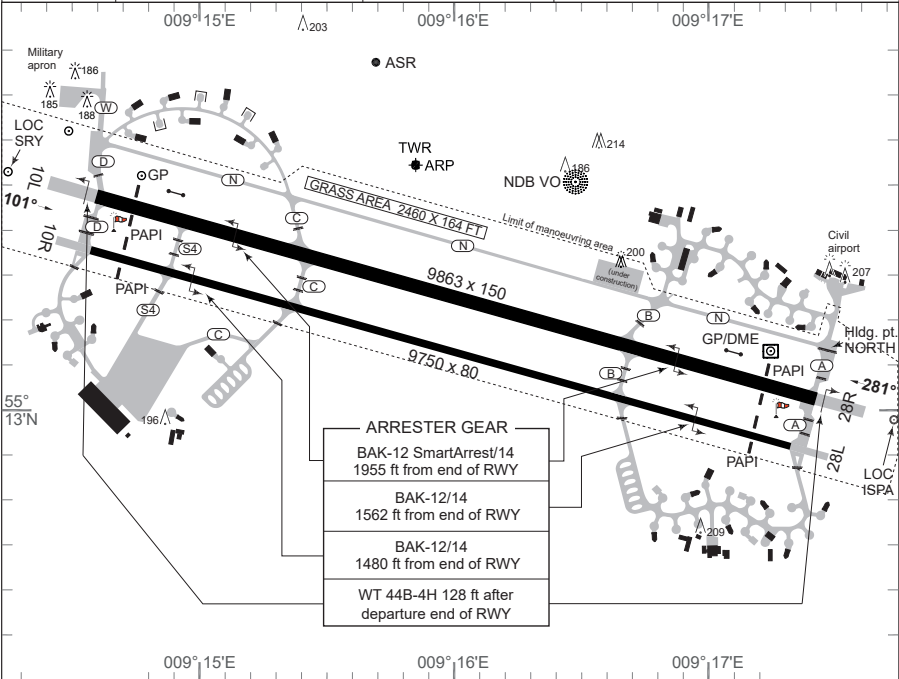
TACAN RWY 28R



AERODROME CHART

SKRYDSTRUP (EKSP)

SKRYDSTRUP ATIS 133.905	SKRYDSTRUP TOWER 286.375 / 118.280	SKRYDSTRUP APPROACH 280.750 / 124.105	AD Admin and FPL: Email: +45 72 84 81 22 comm.skpops@mil.dk
AD Elev 141	ARP 55°13.53'N 009°15.84'E	VAR 4.0°E (JAN 2023)	



ARRESTER GEAR	
BAK-12 SmartArrest/14	1955 ft from end of RWY
BAK-12/14	1562 ft from end of RWY
BAK-12/14	1480 ft from end of RWY
WT 44B-4H	128 ft after departure end of RWY



RWY	PCN/PCR	DECLARED DISTANCES				THR ELEV	RWY LIGHTING						THR PSN
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE	END	
10L	90 F/B/W/T	9863	9863	10597	9863	126	LIH	3°			LIH	LIH	55°13.48'N 009°14.64'E
28R	600 R/C/W/T	9863	9863	10600	9863	141	LIH	3°			LIH	LIH	55°13.05'N 009°17.37'E
10R	77 F/B/W/T	9750	9750	10237	9750	124	LIL	3°			LIL	LIL	55°13.36'N 009°14.60'E
28L	990 F/C/X/T	9750	9750	10237	9750	139	LIL	3°			LIL	LIL	55°12.94'N 009°17.30'E

Gliding may take place outside hours of MIL operations.
Gliding may take place at Rødekro.

Omnidirectional IFR-departures:

RWY 10L & R: Climb straight ahead to at least 700 FT AMSL before turn is commenced.
RWY 28R & L: Climb straight ahead to at least 600 FT AMSL before turn is commenced.

AERODROME CHART

SKRYDSTRUP (EKSP)

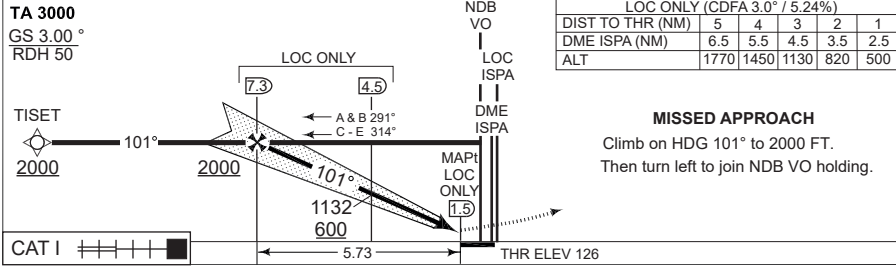
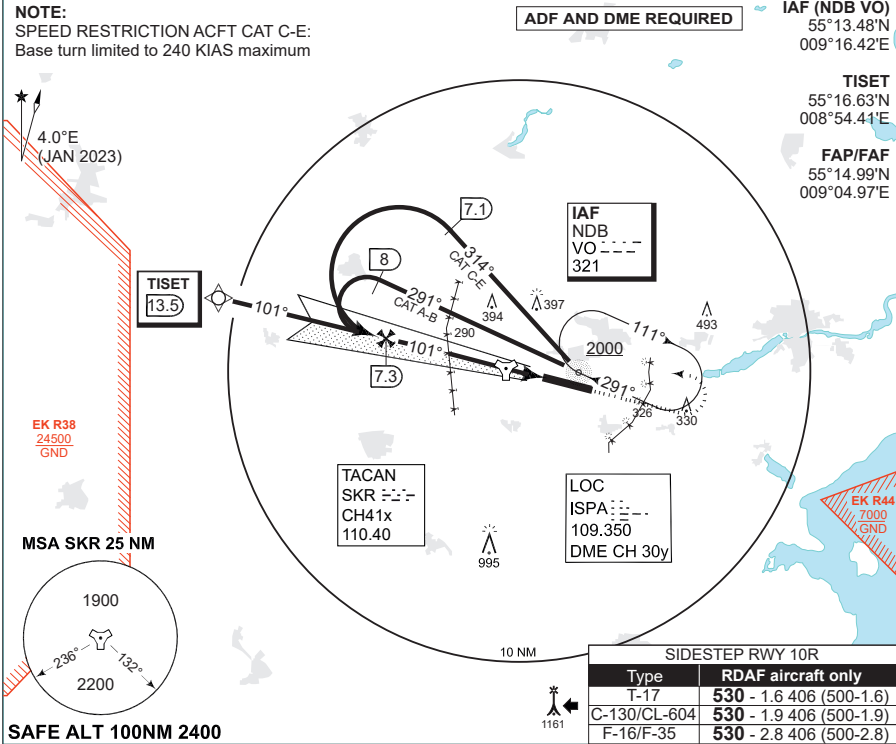


MIPS
INSTRUMENT APPROACH CHART

AD ELEV 141

ILS or LOC RWY 10L
SKRYDSTRUP (EKSP)

COPENHAGEN CONTROL 360.100 133.155	SKRYDSTRUP ATIS 133.905	SKRYDSTRUP APPROACH 280.750 124.105	SKRYDSTRUP TOWER 286.375 118.280
LOC-DME ISPA 109.35/CH 30y	APP COURSE 101°	FAP/FAF ALT 2000 FT	GS 3.00° DA 326 THR 126 ALS length 900 M LDA 9863 FT



CATEGORY	A	B	C	D	E
S-ILS 10L			326 -550 200 (200-0.8/1.2)		
S-LOC 10L			410 -750 284 (300-0.8/1.4)		
CIRCLING	630 -1.5 489 (500-1.5)	700 -1.6 559 (600-1.6)	800 -2.4 659 (700-2.4)	900 -3.6 759 (800-3.6)	1490 -3.6 1349 (1400-3.6)

ILS or LOC RWY 10L

55°13.53'N
009°15.84'E
13-2

SKRYDSTRUP (EKSP)



CHANGES: MAG VAR CORRECTED. CAT D CIRCLING MINIMA RAISED.

AIR COMMAND DENMARK - MIL AIM 19 FEB 2026

MIPS

INSTRUMENT APPROACH CHART

AD ELEV 141

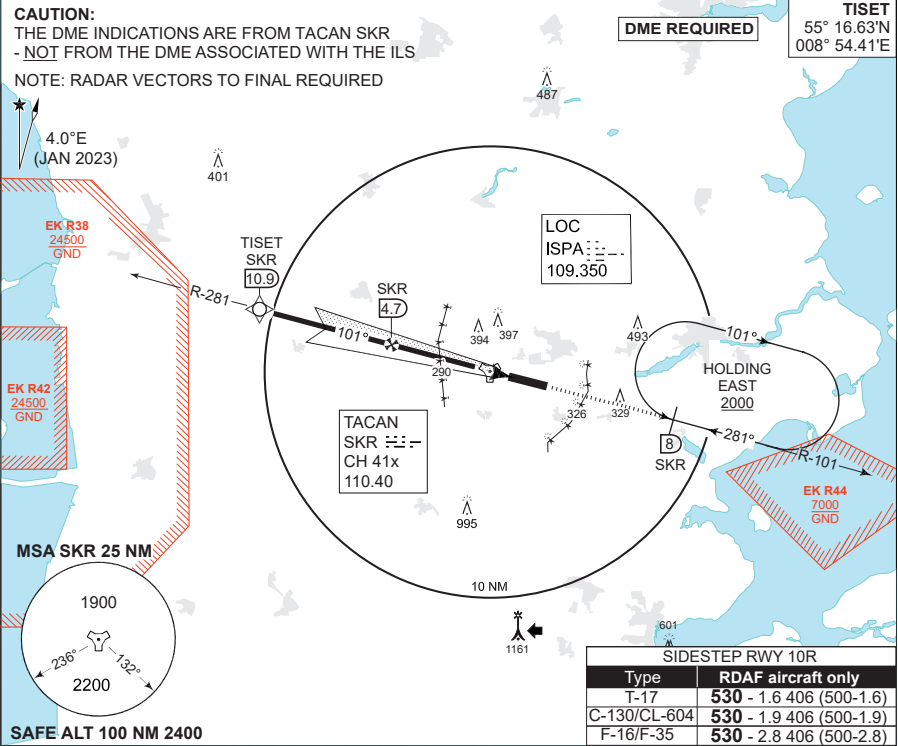
ILS or LOC Z RWY 10L
SKRYDSTRUP (EKSP)

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905		SKRYDSTRUP APPROACH 280.750 124.105		SKRYDSTRUP TOWER 286.375 118.280		
TACAN SKR 110.40/CH 41x	LOC ISPA 109.35	APP COURSE 101°	FAP/FAF ALT 2000 FT	GS 3.00°	DA 326	THR 126	ALS length 900 M	LDA 9863 FT

CAUTION:
THE DME INDICATIONS ARE FROM TACAN SKR
- NOT FROM THE DME ASSOCIATED WITH THE ILS
NOTE: RADAR VECTORS TO FINAL REQUIRED

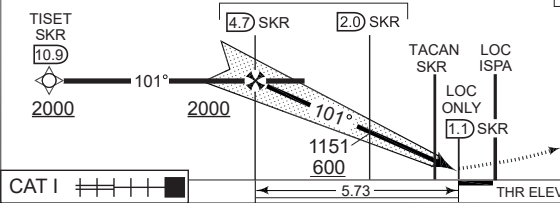
DME REQUIRED

TISET
55° 16.63'N
008° 54.41'E



SIDESTEP RWY 10R	
Type	RDAF aircraft only
T-17	530 - 1.6 406 (500-1.6)
C-130/CL-604	530 - 1.9 406 (500-1.9)
F-16/F-35	530 - 2.8 406 (500-2.8)

TA 3000
GS 3.00°
RDH 50



LOC ONLY (CDFA 3.0° / 5.24%)					
DIST TO THR (NM)	5	4	3	2	1
DME SKR (NM)	3.9	2.9	1.9	0.9	0.1
ALT	1770	1450	1140	820	500

MISSED APPROACH
Climb to 2000 FT on
R-101 to SKR 8 DME
and join holding EAST.

CATEGORY	A	B	C	D	E
S-ILS 10L	326 -550 200 (200-0.8/1.2)				
S-LOC 10L	410 -750 284 (300-0.8/1.4)				
CIRCLING	630 -1.5 489 (500-1.5)	700 -1.6 559 (600-1.6)	800 -2.4 659 (700-2.4)	890 -3.6 749 (800-3.6)	1490 -3.6 1349 (1400-3.6)

ILS or LOC Z RWY 10L SKRYDSTRUP (EKSP)

55°13.53'N
009°15.84'E
13-4

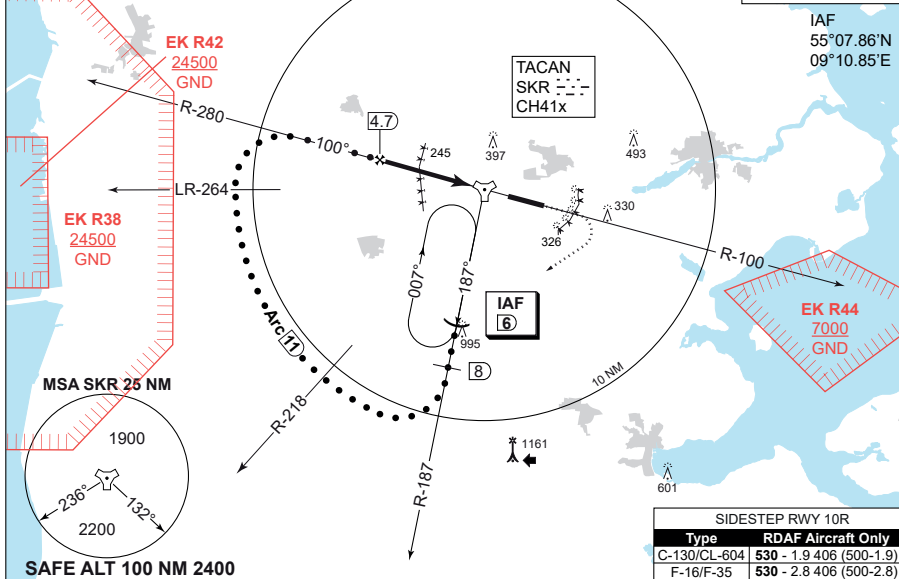


CHANGES: MAG VAR CORRECTED.

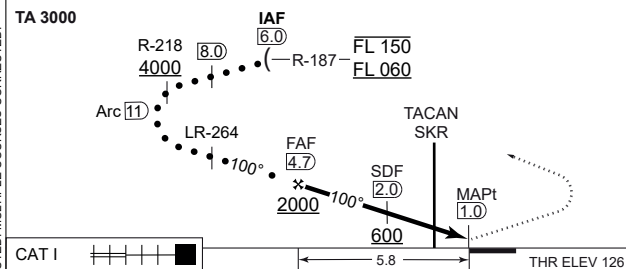
AIR COMMAND DENMARK - MIL AIM 19 FEB 2026

INSTRUMENT APPROACH CHART

AD ELEV 141

SKRYDSTRUP (EKSP)

SIDESTEP RWY 10R	
Type	RDAF Aircraft Only
C-130/CL-604	530 - 1.9 406 (500-1.9)
F-16/F-35	530 - 2.8 406 (500-2.8)



CDFA: 3.00° / 5.24%					
DME SKR	4	3	2	1	0
DIST THR	5.1	4.1	3.1	2.1	1.1
ALT	1790	1470	1150	830	520

MISSED APPROACH
Climb on SKR R-100 to
FL 60. When passing 2000 ft
turn right inbound IAF
(SKR R-187 DME 6)

CATEGORY		HPMA
MIPS	S-TACAN 10L	460 - 800 334 (400-0.8/1.5)
	CIRCLING	700 - 3.2 559 (600-3.2)

HPMA TACAN RWY 10L

55°13.53'N
009°15.84'E
13-5

SKRYDSTRUP (EKSP)

**TACAN RWY 10L
SKRYDSTRUP (EKSP)**

a Holding/racetrack speed limited to 220 KIAS maximum

4.0°E (JAN 2023)

R-280

RNAV FIX TISET
55°16.63'N
008°54.41'E
SKR 10.9
for DCT APCH

EK R42
24500
GND

EK R38
24500
GND

MSA SKR 25 NM

1900

236°

132°

2200

SAFE ALT 100 NM 2400

UMRUM
54°47.53N
008°56.53E

SWG
CH 55
111.80

TACAN
SKR CH 41x

IAF 4.7

HOLDING WEST/ RACETRACK 2000

HOLDING EAST 2000

R-100

EK R44
7000
GND

ALS
114.70

SIDESTEP RWY 10R

Type	RDAB aircraft only
T-17	530 - 1.6 406 (500-1.6)
C-130/CL-604	530 - 1.9 406 (500-1.9)
F-16/F-35	530 - 2.8 406 (500-2.8)

DME REQUIRED

55°14.99'N
009°04.97'E

TA 3000	IAF/FAF R-280	CDFA 3.0° / 5.24%					
		DME SKR	4	3	2	1	0
		DIST to THR	5.1	4.1	3.1	2.1	1.1
		ALT	1790	1470	1150	830	520

MISSED APPROACH
Initiate climb to 2000 FT.
Follow SKR R-100 outbound.
At SKR 8 DME join holding EAST.

MISSED APPROACH
Initiate climb to 2000 FT.
Follow SKR R-100 outbound.
At SKR 8 DME join holding EAST.

CATEGORY		A	B	C	D	E
MIPS	S-TACAN 10L	430 -750 304 (400-0.8/1.4)				
	CIRCLING	630 -1.5 489 (500-1.5)	700 -1.6 559 (600-1.6)	800 -2.4 659 (700-2.4)	890 -3.6 749 (800-3.6)	1490 -3.6 1349 (1400-3.6)

TACAN RWY 10L

55°13.53'N
009°15.84'E
13-6

SKRYDSTRUP (EKSP)



MIPS

INSTRUMENT APPROACH CHART

AD ELEV 141

ILS or LOC RWY 28R

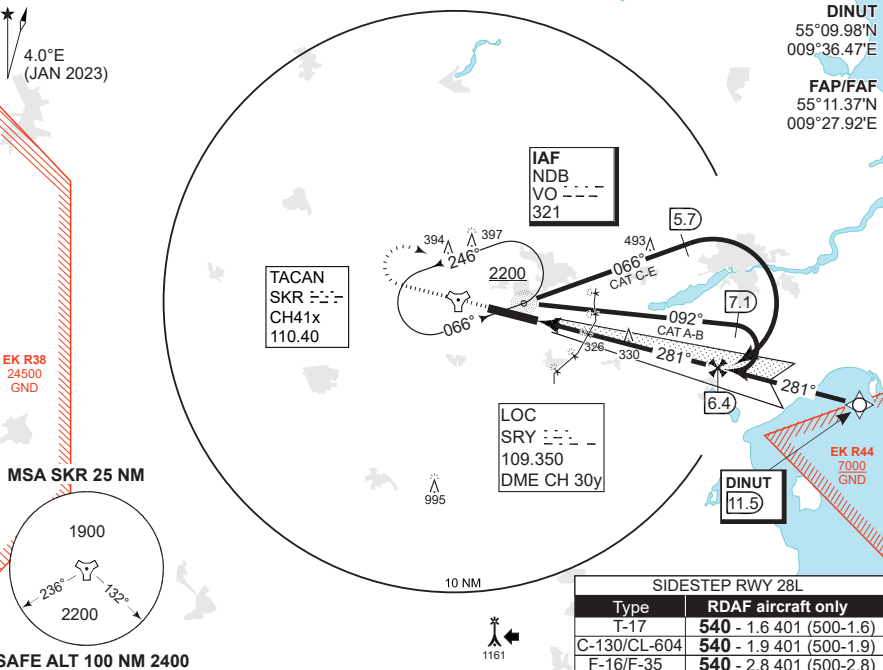
SKRYDSTRUP (EKSP)

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905	SKRYDSTRUP APPROACH 280.750 124.105		SKRYDSTRUP TOWER 286.375 118.280	
LOC / DME SRY 109.35/CH 30y	APP COURSE 281°	GS INTCP ALT 2200 FT	GS 3.0°	DA 341	THR ELEV 141	ALS LENGTH 900 M
						LDA 9863 FT

NOTE:
SPEED RESTRICTION ACFT CAT C-E:
Base turn limited to 240 KIAS maximum

ADF AND DME REQUIRED

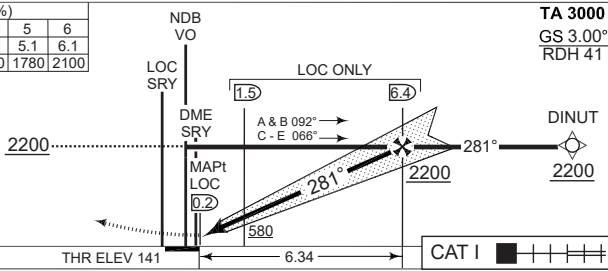
IAF (NDB VO)
55°13.48'N
009°16.42'E



SIDESTEP RWY 28L	
Type	RDAF aircraft only
T-17	540 - 1.6 401 (500-1.6)
C-130/CL-604	540 - 1.9 401 (500-1.9)
F-16/F-35	540 - 2.8 401 (500-2.8)

LOC ONLY (CDFA 3.0° / 5.24%)						
DIST TO THR (NM)	1	2	3	4	5	6
DME SRY (NM)	1.1	2.1	3.1	4.1	5.1	6.1
ALT	500	820	1140	1460	1780	2100

MISSED APPROACH
Climb on RWY HDG
to 2200 FT. Turn right
to join holding at NDB VO.



CATEGORY	A	B	C	D	E
S-ILS/DME 28R	341 -550 200 (200-0.8/1.2)				
S-LOC/DME 28R	470 -800 329 (400-0.8/1.5)				
CIRCLING	630 -1.5 489 (500-1.5)	700 -1.6 559 (600-1.6)	800 -2.4 659 (700-2.4)	900 -3.6 759 (800-3.6)	1490 -3.6 1349 (1400-3.6)

ILS or LOC RWY 28R

55°13.53'N
009°15.84'E
13-9

SKRYDSTRUP (EKSP)

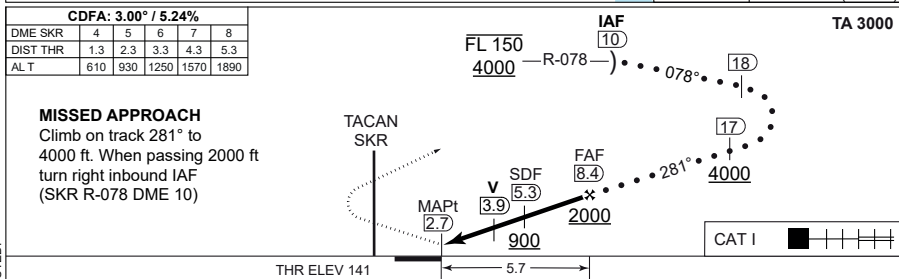


CHANGES: MAG VAR CORRECTED. CAT D CIRCLING MINIMA RAISED

AIR COMMAND DENMARK - MIL AIM 19 FEB 2026

INSTRUMENT APPROACH CHART

AD ELEV 141

SKRYDSTRUP (EKSP)

	CATEGORY	HPMA
MIPS	S-TACAN 28R	580 - 1300 439 (500-1.3/2.0)
	CIRCLING	700 - 3.2 559 (600-3.2)

HPMA TACAN RWY 28R

55°13.53'N
009°15.84'E
13-12

SKRYDSTRUP (EKSP)

CHANGES: MAG VAR CORRECTED.

AIR COMMAND DENMARK - MIL AIM 19 FEB 2026

MIPS

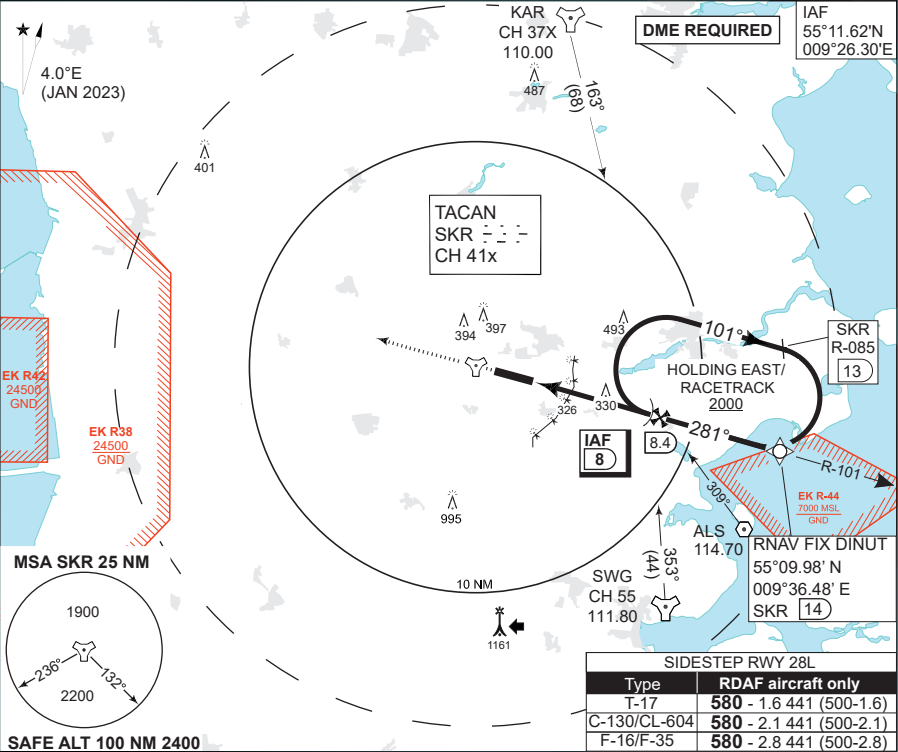
INSTRUMENT APPROACH CHART

AD ELEV 141

TACAN RWY 28R

SKRYDSTRUP (EKSP)

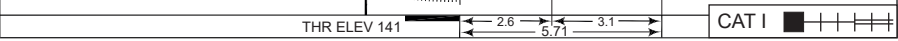
COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905		SKRYDSTRUP APPROACH 280.750 124.105		SKRYDSTRUP TOWER 286.375 118.280	
TACAN SKR CH 41x	APP COURSE 281°	FAF ALT 2000 FT	DESCENT GR 319 FT/NM	MDA 580	THR ELEV 141	ALS length 900 M	LDA 9863 FT



CDFA 3.0° / 5.24%				
DME SKR	4	5	6	8
DIST to THR	1.3	2.3	3.3	4.3
ALT	610	930	1250	1560
				1880

MISSED APPROACH
Climb on track 281° to 2000 ft. Inform ATC.

Radio communication failure during Missed Approach:
Initiate climb to 2000 ft on track 281°. When passing 1000 ft turn left inbound IAF and hold. Squawk 7600.



CATEGORY		A		B		C		D		E	
MIPS	S-TACAN 28R	580 - 1300 439 (500-1.3/1.5)				580 - 1300 439 (500-1.3/2.0)					
	CIRCLING	630	-1.5 489 (500-1.5)	700	-1.6 559 (600-1.6)	800	-2.4 659 (700-2.4)	890	-3.6 749 (800-3.6)	1490	-3.6 1349 (1400-3.6)

TACAN RWY 28R

55°13.53'N
009°15.84'E

SKRYDSTRUP (EKSP)

13-13



CHANGES: MAG VAR CORRECTED.

AIR COMMAND DENMARK - MIL AIM 19 FEB 2026

STAUNING (EKVJ)

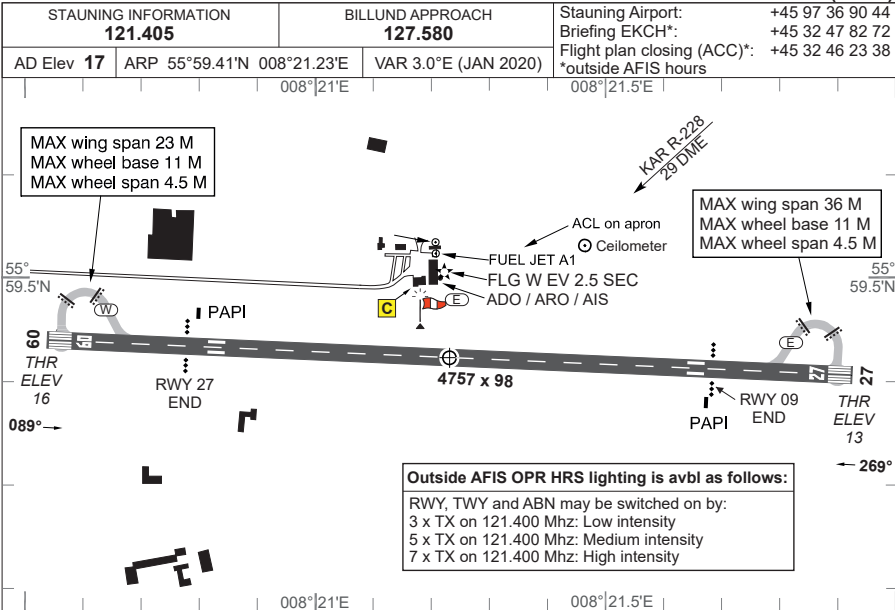
AERODROME CHART

LOC RWY 27



AERODROME CHART

STAUNING (EKVJ)



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING						THR PSN
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE	END	
09	21 F/A/Y/T	3933	4757	4757	3933	16	LIH	3°			LIH	LIH	55°59.42'N 008°20.54'E
27	21 F/A/Y/T	3933	4757	4757	3933	13	LIH	3°			LIH	LIH	55°59.39'N 008°21.93'E

Overflying the summer house area west of the aerodrome should be avoided in connection with TKOF and LDG.
Overflying the towns within the FIZ should be avoided.

IFR Arrival
1. Aircraft will normally be cleared by ACC KØBENHAVN to STAUNING HOLDING.
2. Instrument approach procedures are in airspace classified G below 3500 FT MSL.
3. Radio communication failure: Navigation aid designated for radio communication failure during IMC for arriving aircraft is NDB VJ.
Note: Circling S of AD only.

IFR Departure
1. Standard Instrument Departures (SID) have not been established.
2. Omnidirectional departures RWY 09/27: Climb straight ahead to at least 600 FT MSL before turn is commenced.
3. Procedures are in airspace classified G below 3500 FT MSL.

VFR Flights
1. VFR reporting points and VFR routes are established, see LFC 1:500 000 - Denmark.
2. Stauning FIZ is designated as Radio Mandatory Zone (RMZ).

MIPS		CIRCLING MINIMA	
A		B	
720 - 2600 703 (800-2.6)		720 - 2600 703 (800-2.6)	
		C	
		910 - 2600 893 (900-2.6)	



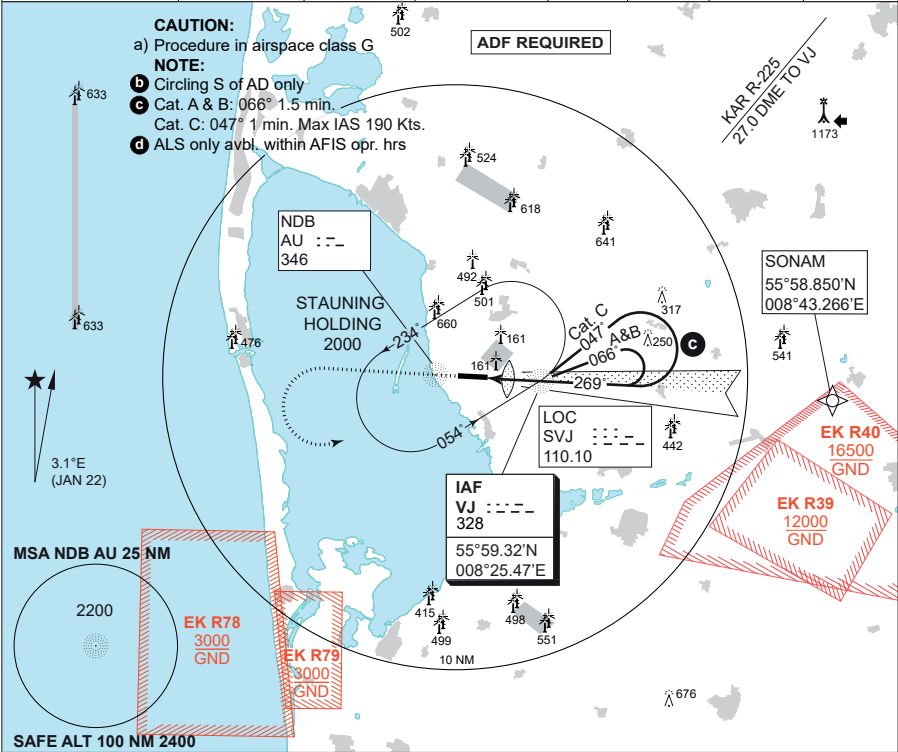
CHANGES: APPROACH LIGHT LENGTH RWY 27 REDUCED TO 420 M.

AIR COMMAND DENMARK - MIL AIM 16 APR 2026

MIPS
INSTRUMENT APPROACH CHART

LOC RWY 27
STAUNING (EKVJ)

COPENHAGEN CONTROL 362.750 136.555		BILLUND APPROACH 127.580			STAUNING INFORMATION 121.405		
LOC SVJ 110.10	APP COURSE 269°	FAF ALT 720 FT	DESCENT GR 329 FT / NM	MDA 720	THR ELEV 13	ALS LENGTH 420 M	LDA 3933 FT



NDB VJ TO MAPt 1.99 NM								TA 3000	
Knots	70	80	90	100	110	120	150	160	
Min:Sec	1:42	1:30	1:20	1:12	1:05	1:00	0:48	0:45	

MISSED APPROACH
Climb on track 269° to 2000 ft.
Left turn to hold at NDB VJ.

LOC SVJ

MM

MAPt THR

THR ELEV 13

2.0

d SRC

CATEGORY	A	B	C
S-LOC 27	720 - 2600 707 (800-2.6/3.3)		
CIRCLING b	720 - 2600 703 (800-2.6)	720 - 2600 703 (800-2.6)	910 - 2600 893 (900-2.6)

LOC RWY 27 55°59.41'N 008°21.23'E STAUNING (EKVJ)

CHANGES: APPROACH LIGHT LENGTH REDUCED TO 420 M.

AIR COMMAND DENMARK - MIL AIM 16 APR 2028



SØNDERBORG (EKS)

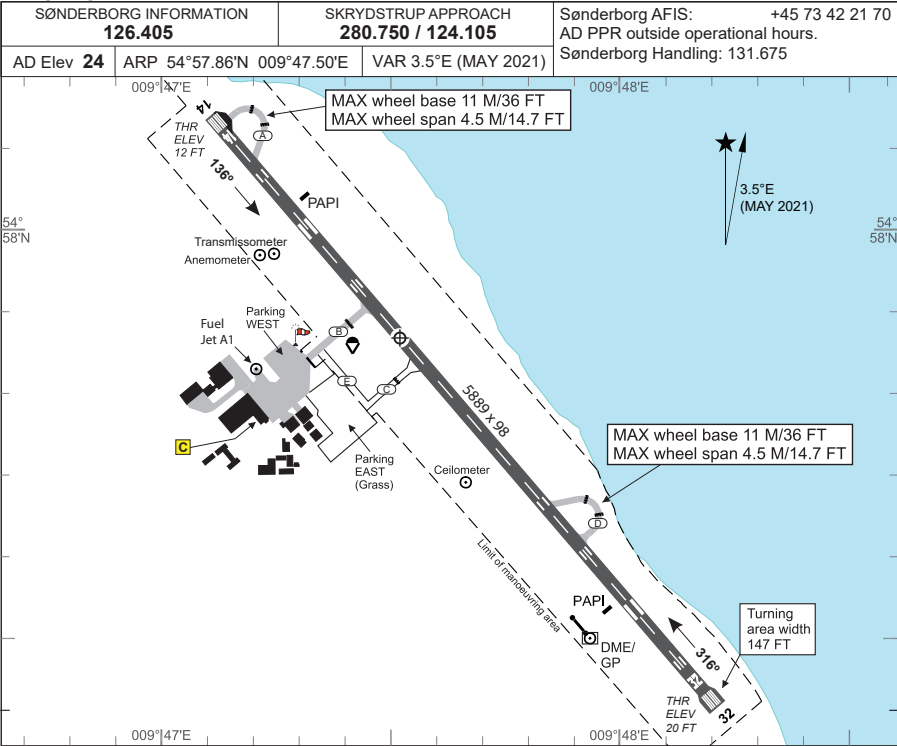
AERODROME CHART

ILS or LOC RWY 32



AERODROME CHART

SOENDERBORG (EKS)



SRC (SIMPLE ALS)

3.00°

420 m

12 ft

CAT I (ALSF-1)

3.00°

20 ft

900 m

RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING					THR PSN	
		PSN	TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE/END		
14	40 F/A/W/T		5889	5889	5889	5889	12	LIH	3°			LIH	LIH	54°58.14'N 009°47.10'E
32			5889	5889	5889	5889	20	LIH	3°				LIH	LIH

Traffic circuits NE of AD only. Parachuting may take place.

IFR Arrival

1. Aircraft will normally be cleared by ACC KØBENHAVN to LIBRI HOLDING.

2. Fix designated for radio communication failure during IMC for arriving aircraft is LIBRI.

IFR Departure

1. Standard Instrument Departures (SID) have not been established.

2. Omnidirectional departures RWY 14/32: Climb to at least 500 FT before turn is commenced.

MIPS	CIRCLING MINIMA (East of AD only)		
	A	B	C
	480 - 1500 456 (500-1.5)	530 - 1600 509 (600-1.6)	690 - 2400 669 (700-2.4)

AERODROME CHART

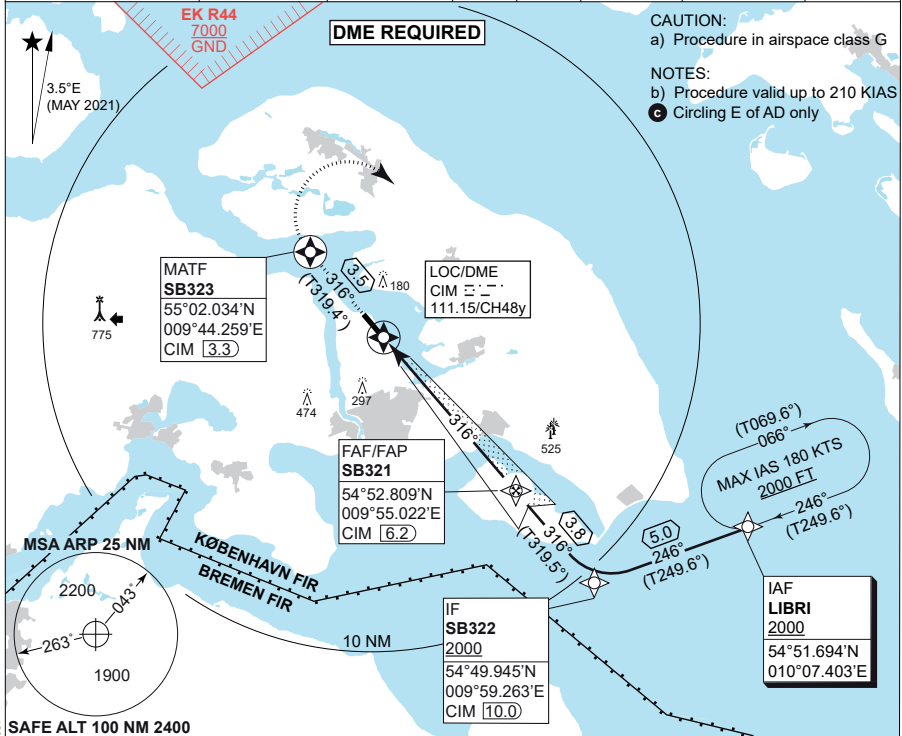
SOENDERBORG (EKS)



MIPS INSTRUMENT APPROACH CHART

**ILS or LOC RWY 32
SOENDERBORG (EKSB)**

COPENHAGEN CONTROL		SKRYDSTRUP APPROACH			SOENDERBORG INFORMATION		
360.100 133.155		280.750 124.105			126.405		
LOC / DME	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS LENGTH	LDA
CIM 111.15/CH 48y	316°	2000 FT	3.00°	220	20	900 M	5889 FT



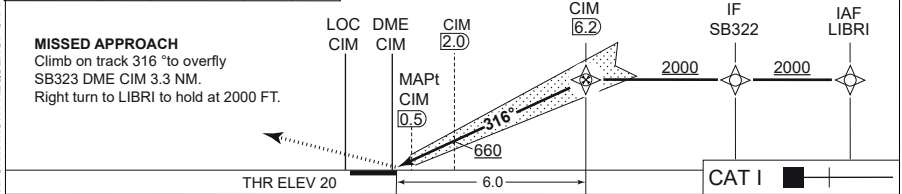
SAFE ALT 100 NM 2400

LOC ONLY: CDFA 3.00' / 5.24%					
DME CIM	1	2	3	4	5
DIST THR	0.8	1.8	2.8	3.8	4.8
ALT	340	660	980	1300	1620

TA 3000
GS 3.0°
RDH 52

MISSED APPROACH

Climb on track 316 °to overfly
SB323 DME CIM 3.3 NM.
Right turn to LIBRI to hold at 2000 FT.



CATEGORY		A	B	C
MPS	S-ILS 32	220 - 550 200 (200-0.8/1.2)		
	S-LOC 32	280 - 800 259 (300-0.8/1.3)		
	CIRCLING 	480 - 1500 456 (500-1.5)	530 - 1600 509 (600-1.6)	690 - 2400 669 (700-2.4)

ILS or LOC RWY 32

54°57.86'N
009°47.50'E
15-4

SOENDERBORG (EKSB)

MISCELLANEOUS

TERPS VS. PANS-OPS

A/C SPEEDS

HPMA

LANDING MINIMA EXPL.

ALTITUDE CORRECTION

DECLARED DISTANCES

ACN / PCN

ACR / PCR

NPA FLYING TECHNIQUES

ALS

SIDESTEP

RADIO NAVAIDS

NDB BRG. VOR/TAC

VOR/TAC BRG. VOR/TAC

LIST OF AERODROMES

A/D BRG. VOR/TAC





MISCELLANEOUS

TERPS VS. PANS OPS	20-2
AIRCRAFT CATEGORIES / SPEEDS	20-6
HIGH PERFORMANCE MILITARY A/C (HPMA)	20-8
LANDING MINIMA EXPLANATION	20-9
COLD WEATHER ALTITUDE CORRECTION	20-11
DECLARED DISTANCES	20-12
AIRCRAFT CLASSIFICATION/PAVEMENT- CLASSIFICATION NUMBER (ACN/PCN)	20-13
AIRCRAFT CLASSIFICATION/PAVEMENT- CLASSIFICATION RATING (ACR/PCR).....	20-15
NON-PA – FLYING TECHNIQUES	20-17
APPROACH LIGHTING SYSTEMS	20-19
SIDESTEP PROCEDURE	20-20
RADIO NAVIGATIONAL AIDS	20-21
NDB BEARING/DISTANCES	20-22
VOR/TACAN BEARING/DISTANCES	20-23
LIST OF AERODROMES	20-24
AERODROME BEARING/DISTANCES	20-25



TERPS VS. PANS OPS

Instrument Approach Procedures (IAP) in this FLIP based on criteria in accordance with ICAO DOC 8168 (PANS OPS) and NATO STANAG 3759 (NATO SUPPLEMENT TO ICAO DOC 8168-OPS/611,VOL II FOR THE PREPARATION OF INSTRUMENT APPROACH AND DEPARTURE PROCEDURES (AATCP-1)) are marked MIPS (Military Instrument Procedures Standardization).

MIPS INSTRUMENT APPROACH CHART				ILS or LOC RWY 27L KARUP AIR BASE (EKKA)			
COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.575		KARUP APPROACH 292.750 120.425		KARUP TOWER 241.650 119.575	
LOC/DME KR 108.150/CH18y	APP COURSE 266°	GS INTCP ALT 2000 FT	GS 3.00°	DA 370	THR ELEV 170	ALS LENGTH 900 M	LDA 9607 FT

MIPS (Military Instrument Procedure Standardization)

Procedures based on TERPS criteria are marked accordingly:

TERPS INSTRUMENT APPROACH CHART				HI-TACAN RWY 27L KARUP AIR BASE (EKKA)			
COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.575		KARUP APPROACH 292.750 120.425		KARUP TOWER 241.650 119.575	
TACAN KAR 110.00/CH 37x	APP COURSE 267°	FAF ALT 2000 FT	DESCENT GR 305 FT/NM	MDA 600	TDZE 170	ALS length 900 M	LDA 9607 FT

TERPS - this IAP is based on TERPS criteria

The following text explaining the main differences between TERPS and PANS OPS is copied from the latest version of STANAG 7199 (AFPP-1(B)) - NATO Supplement to ICAO Doc 8168 Volume I Flight Procedures, dated June 2017 and ratified by Denmark.

TERPS VERSUS PANS-OPS AND MIPS.

TERPS philosophy regarding the constructing of procedures differs from that of ICAO PANS-OPS in several areas, which also affects the way procedures are to be flown, e.g. turn radius, visual manoeuvring, ILS, missed approach. For aircrew that are used to only flying TERPS procedures, the following is worth noticing:

a. Aircraft Categories/Speeds.

Aircraft approach categories play a significant role in the design of PANS-OPS/MIPS instrument procedures. In addition to affecting final approach minima, PANS-OPS references maximum speeds by category for holding, departures and the initial and intermediate segments of instrument approaches. Also the final approach speeds specified by category will be different from the TERPS procedure speeds. The PANS-OPS references are as follows:

Turning departure speeds: PANS-OPS Part I, Section 3, Chapter 2, Table I-3-2-1.

Approach, circling and missed approach speeds: PANS-OPS Part I, Section 4, Chapter 1, Tables I-4-1-1 and I-4-1-2.

Holding speeds: PANS-OPS Part I, Section 6, Chapter 1, Table I-6-1-1.

Holding speeds (Helicopter): PANS-OPS Part I, Section 6, Chapter 1, Table I-6-1-2.

Helicopter only speeds: PANS-OPS Part I, Section 8, Chapter 3, Table I-8-3-1.

HPMA (High Performance Military Aircraft): The MIPS use a separate set of speeds for for HPMA. STANAG 3759, Chapter 6 also provides a set of HPMA parameters for universal use.



b. Track.

Obstacle clearance in PANS-OPS/MIPS procedures is provided under the assumption that pilots will maintain the depicted ground track.

c. Bank Angle.

Unless otherwise specified, PANS-OPS approach procedures are based on average achieved bank angle of 25° or the bank angle giving a rate of turn of 3°/sec, whichever is less.

For departures and missed approach, PANS-OPS procedures are based on an average achieved bank angle of 15°. MIPS procedures generally are the same as PANS-OPS, but VCOA departures are based on 23° bank angle. The bank angle for HPMa is 30° for all segments.

d. Established on Course.

PANS-OPS defines "established on course" as being within half full-scale deflection for a VOR/DME or ILS (localizer) and within $\pm 5^\circ$ of the required final bearing for an NDB. MIPS applies the same deflection tolerance flying a TACAN as PANS-OPS applies for flying a VOR/DME approach.

Do not consider the aircraft to be established on course until within these limits.

PANS-OPS/MIPS obstacle clearance surfaces assume that the pilot does not normally deviate from the centre line more than one-half scale deflection after being established on track. Despite the fact that there is a range of "acceptable" variation, every attempt must be made to fly the aircraft on the course centre line and on the glide path. Allowing a more than half-scale deflection (or a more than half-scale fly-up deflection on glideslope) combined with other system tolerances could place the aircraft near the edge or at the bottom of the protected airspace where loss of protection from obstacles can occur.

e. Omnidirectional Departures.

The PANS-OPS "Omnidirectional Departure" is somewhat similar to the TERPS "Diverse Departure"; a departure procedure without any track guidance provided.

An important difference is that an Omnidirectional Departure may be published even though obstacles penetrate the 2.5% Obstacle Identification Surface (OIS). PANS-OPS then provides the procedure designer the following options for publishing departure restrictions.

1. Standard case.

Where no obstacles penetrate the 2.5% OIS, normally no departure restrictions will be published. Upon reaching 400 feet above Departure End of Runway (DER), a turn in any direction may be initiated.

2. Specified turn altitude.

The procedure may dictate a climb to a specified altitude, where an omnidirectional turn safely can be made.

3. Specified climb gradient.

The procedure may specify a minimum climb gradient of more than 3.3% to an altitude before turns are permitted.

4. Sector departure.

The procedure may identify sectors for which either a minimum turn altitude or a minimum climb gradient is specified. (e.g. "Climb in sector 180° - 270° to 2000 feet before commencing a turn.



f. Departures with Track Guidance.

PANS-OPS uses the term Standard Instrument Departure (SID) to refer to departures using track guidance. Minimum climb gradients above the standard 3.3% may apply.

For turning departures:

PANS-OPS protection area is based on using an average bank angle of 15° for the departure turn. Where a departure route requires a turn of more than 15°, a turning departure may be constructed. Turns may be specified at an altitude/height, at a fix or overhead a facility. If an obstacle prohibits turns before the departure end of the runway or prior to reaching an altitude/height, a turning point or a minimum turn altitude/height will be specified. Tracks to be flown and radials/bearings to be intercepted will also be specified.

1. Turning departure speeds.

If restricted below the standard maximum speeds, the restricted speeds should be published by category or by a general note. For example, the procedure may be annotated "Departure limited to CAT C aircraft" or "Departure turn limited to 185 kt IAS maximum". You must comply with the speed limit published on the departure to remain within protected airspace. If you require a higher speed for safe aircraft performance, ATC may approve the higher speed or assign an alternative departure procedure.

g. Departure: Runway End Crossing Height.

For PANS-OPS, the origin of the Obstacle Identification Surface (OIS) begins at 16 ft above the DER.

h. TERPS Low Altitude Approaches.

PANS-OPS does not distinguish between low and high altitude procedures. PANS-OPS Part I, Section 4, Chapter 3 describes how to enter and fly the different manoeuvres and entries in the initial approach segment.

Differences from TERPS:

- A PANS-OPS reversal procedure does not permit a TERPS holding pattern/race-track entry. Instead, PANS-OPS will specify the track to be flown. So there will be no PANS-OPS procedure depicted with a "barb" symbol depicting turn side.
- PANS-OPS reversal: Pilots may only enter from a track $\pm 30^\circ$ of outbound track and must be established on the specified outbound track to start descent.
- PANS-OPS base turn: Pilots may enter from a track $\pm 30^\circ$ of outbound track, extended up to the reciprocal of the inbound track. They must be established on the specified outbound track to start descent.
- PANS-OPS racetrack (also different from PANS-OPS holding): Pilots may only proceed outbound on the 30° offset entry track for maximum 1 minute 30 seconds. After this time, turn to a heading parallel to the outbound track for the remainder of the outbound time. If the outbound time is only 1 minute, the time on the 30° offset track shall be 1 min also. After a parallel entry proceeding to final, the holding course must be intercepted after the inbound turn instead of flying direct to the facility.

i. Circling Procedures.

PANS-OPS circling protected airspace is typically larger than TERPS and the obstacle clearance is higher. PANS-OPS maximum circling speeds related to category are also higher than TERPS. An example: For aircraft CAT D, PANS-OPS circling maximum speed is 205 kt IAS, while TERPS circling has a maximum speed directly related to the



category definition, which for CAT D is 165 kt IAS.

Also, one important distinction to make is between the terms "runway environment" and "airport environment." While circling using a PANS-OPS designed procedure, pilots must maintain visual contact with the runway environment throughout the entire circling manoeuvre. TERPS procedures only require pilots to maintain visual contact with the airport environment while circling to land, but cannot descend out of the circling MDA until the runway environment is in sight. The PANS-OPS protection area is based on using an average bank angle of 20° for the turn to final.

For HPMA, the circling criteria are stated on page 20-8.

j. **Holding.**

Differences from TERPS:

The PANS-OPS holding entry procedures are mandatory. Timing, distances and limiting radials must be complied with. Enter the holding pattern based on the heading relative to the three entry sectors depicted in PANS-OPS Part I, Section 6, Chapter 1, Paragraph 1.4. The margins on each sector dividing line is $\pm 5^\circ$. Upon reaching the holding fix, follow the appropriate procedure according to entry sector.

Bank angle must not be reduced for wind corrections. The bank angle used in PANS-OPS should be 25° or a rate of 3°/sec, whichever is less.

Timing is made on the outbound leg.

Attempt to maintain the track by allowing for known winds and applying corrections to heading and timing during entry and while flying in the holding pattern.

A radial or a DME value may be published to limit the outbound track.

k. **Transition Altitude/Level.**

Transition altitude is the altitude in the vicinity of an aerodrome at or below which the vertical position of an aircraft is determined from the altimeter set to QNH. Transition altitude is normally specified for each airfield by the country in which the airfield exists. Transition altitude will not normally be below 3000 ft Height Above Aerodrome (HAA) and must be published on the appropriate charts.

Transition level is the lowest flight level available for use above the transition altitude.

Transition level is usually communicated to the aircraft together with the descent/approach clearances. The transition layer (area between the transition altitude and transition level) may also be supplied by ATC via the ATIS or during arrival. VFR flight levels may be used on some places, e.g. FL 045.

The vertical position of an aircraft at or below transition altitude shall be expressed in altitude (QNH). Vertical position at or above the transition level shall be expressed in terms of flight levels according to the standard altimeter setting 1013.2 hPa. When passing through the transition layer, vertical position shall be expressed in terms of flight levels when climbing and in terms of altitudes (QNH) when descending.

After an approach clearance has been issued and the descent is commenced, the vertical positioning of an aircraft above the transition level may be by reference to altitude (QNH) provided that a level off above the transition altitude is not anticipated. This is intended for turbo jet aircraft where an uninterrupted descent from high altitude is desired.



AIRCRAFT CATEGORIES / SPEEDS (PANS OPS/ MIPS)

Approach, circling, missed approach and turning departure speeds

A/C category	V _{at}	Range of speeds for initial approach	Range of final approach speeds	Max. speeds for visual manoeuvring (circling)	Max speeds for missed approach		Max. speeds for turning departures
					Inter-mediate	Final	
A	<91	90/150(110 ¹)	70/100	100	100	110	120
B	91/120	120/180(140 ¹)	85/130	135	130	150	165
C	121/140	160/240	115/160	180	160	240	265
D	141/165	185/250	130/185	205	185	265	290
E	166/210	185/250	155/230	240	230	275	300
H	N/A	70/120 ²	60/90 ³	N/A	90	90	90
HPMA	See page 20-8						
CAT H (Pins) ³	NA	70/120	60/90	N/A	70 or 90		

V_{at} — Speed at threshold based on 1.3 times stall speed V_{so} or 1.23 times stall speed V_{slg} in the landing configuration at maximum certificated landing mass. (Not applicable to helicopters.)

- Maximum speed for reversal and racetrack procedures.
- Maximum speed for reversal and racetrack procedures up to and including 6.000 ft is 100 kt, and maximum speed for reversal and racetrack procedures above 6.000 ft is 110 kt.
- Helicopter point-in-space procedures based on basic GNSS may be designed using maximum speeds of 120 kt for initial and intermediate segments and 90 kt on final and missed approach segments, or 90 kt for initial and intermediate segments and 70 kt on final and missed approach segments based on operational need. Refer to PANS-OPS, Volume II, Part IV, Chapter 1, "Area navigation (RNAV) point-in-space (PinS) approach procedures for helicopters using basic GNSS receivers".
- Range of speeds for holding, initial, approach, reversal, racetrack and intermediate segment.

Note. The V_{at} speeds given in Column 1 of Table I-4-1-1 are converted exactly from those in this table, since they determine the category of aircraft. The speeds given in the remaining columns are converted and rounded to the nearest multiple of five for operational reasons and from the standpoint of operational safety are considered to be equivalent.



In accordance with FKOBST 152.1 item 36.3, aircraft of the Royal Danish Air Force are classified as follows:

T-17	Category A
AS-550 Fennec	Category A/H
Seahawk	Category A/H
EH-101	Category A/H
C-130J	Category C
CL-604	Category C
F-16	Category E

Holding speeds - Categories A through E

Levels ¹⁾	Normal conditions	Turbulence conditions
Up to 14.000 ft inclusive	230 kt ²⁾ 170 kt	280 kt ³⁾ 170 kt ⁴⁾
Above 14.000 ft to 20.000 ft inclusive	240 kt ⁵⁾	280 kt or 0.8 Mach, whichever is less ³⁾
Above 20.000 ft to 34.000 ft inclusive	265 kt ⁵⁾	
Above 20.000 ft to 34.000 ft inclusive	0.83 Mach	0.83 Mach

- 1) The levels shown represent altitudes or corresponding flight levels depending upon the altimeter setting in use.
- 2) When the holding procedure is followed by the initial segment of an instrument approach procedure promulgated at a speed higher than 230 kt, the holding should also be promulgated at this higher speed wherever possible.
- 3) The speed of 280 kt (0.8 Mach) reserved for turbulence conditions shall be used for holding only after prior clearance with ATC, unless the relevant publications indicate that the holding area can accommodate aircraft flight at these high holding speeds.
- 4) For holdings limited to CAT A and B aircraft only.
- 5) Wherever possible, 280 kt should be used for holding procedures associated with airway route structures.

Holding speeds — for helicopter procedures

Maximum speed up to 6.000 ft	
Maximum speed above 6.000 ft	
Note: MOC in secondary area for helicopter holding procedures is linear from zero to full MOC	

Final approach speeds – TERPS vs. PANS

A/C category	Range of final approach speeds	
	TERPS	PANS OPS
A	Less than 91 kt	70 - 100 kt
B	91 -121 kt	85 - 130 kt
C	121 - 141 kt	115 - 160 kt
D	141 - 166 kt	130 - 185 kt
E	166 kt or more	155 - 230 kt



MISCELLANEOUS

HIGH PERFORMANCE MILITARY AIRCRAFT (HPMA)

In order to fly procedures marked "HPMA" the aircraft shall, as a minimum, adhere to the gradients, segment speeds, bank angle and transition times described below. The specific HPMA-criteria replaces, amends or provides criteria in addition to PANS-OPS and MIPS:

- Departure procedures, minimum climb performance: 8.75% (5.0°).
- Initial segment descent gradient: Up to 1000 ft/NM.
- Bank angle: Minimum 30° for all segments, with a bank angle establishment Time of maximum 5 sec.
- Maximum aircraft dimensions for ILS: Wing span 30 m and glide path antenna to wheel base maximum 6 m.
- Height loss during precision approach transition to missed approach: Maximum 100 ft.
- Missed approach climb gradient: 6.0% (3.43°), with a transition time from level flight to the required climb gradient of maximum 10 sec.

Turn construction parameters / HPMA Speeds (IAS) for Procedure Calculations:

<i>Segment or fix</i>		<i>Speed (IAS)</i>	<i>Bank angle</i>	<i>Bank establishment Time (seconds)</i>	<i>Pilot reaction Time (seconds)</i>
Departure		350 kt	30°	5	3
Holding		300 kt	30°	5	3
Initial approach	Reversal and racetrack	300 kt	30°	5	3
	DR track	300 kt	30°	5	3
Initial approach, reversal, racetrack, intermediate segment		250 – 300 kt	30°	5	3
Range of final approach speeds		90 – 185 kt	30°	5	3
Max speed visual manoeuvring (circling)		220 kt	30°	N/A	N/A
Visual manoeuvring using prescribed track		220 kt	30°	N/A	N/A
Max speed missed approach	Intermediate	300 kt	30°	5	3
	Final	350 kt	30°	5	3

VISUAL MANOEUVRING (CIRCLING).

The visual manoeuvring (circling) radii are drawn around the thresholds on the applicable runway(s) and joined with tangents to the arcs. The radii values depends on the aerodrome elevation and will be 3.55 NM at sea level.

Obstacle clearance for circling areas:

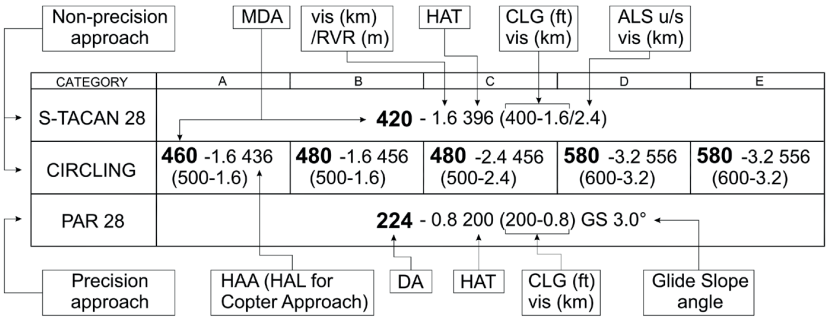
<i>Aircraft category</i>	<i>Minimum obstacle clearance (ft)</i>	<i>Minimum OCH above AD elev (ft)</i>	<i>Minimum visibility km</i>
HPMA	300	550	3.2

CHARTING.

The term "HPMA" will be added for the procedure name, e.g. "HPMA TACAN RWY 10L".



LANDING MINIMA EXPLANATION



CLG Ceiling

A ceiling is expressed in feet above the published aerodrome elevation, and is equal to or greater than the height of the associated DA or MDA.

DA Decision Altitude

A specified altitude or height in a 3D instrument approach operation at which a missed approach must be initiated if the required visual reference to continue the approach has not been established.

HAA Height Above Aerodrome Elevation

The height of the MDA above the published aerodrome elevation. HAA will be published in conjunction with all circling minima.

HAT Height Above Touchdown Zone Elevation

The height of the DA or MDA above the highest runway centerline elevation in the touchdown zone. HAT will be published in conjunction with all straight-in minima.

MDA Minimum Descent Altitude

A specified altitude or height in a 2D instrument approach operation or circling approach operation below which descent must not be made without the required visual reference.



VIS Visibility

RVR Runway Visual Range

Visibility values are expressed as visual range (estimated horizontal visual range on the ground = VIS) or as runway visual range (measured horizontal visual range on the ground along the runway = RVR). The visibility values published following the DA or MDA is the required minimum visibility for the approach.

For straight-in approaches, the visibility value may be either VIS or RVR. For circling approaches, the visibility value will always be VIS. The visibility value published in parentheses with the ceiling value is applicable for flight planning purpose. It is also the required minimum visibility in the event that RVR is not available. The value will always be VIS. For ALS u/s, the last VIS value (after the slash) should be used.

ILS Cat. II operations

CATEGORY	A	B	C	D	E
ILS Cat. II 28	RA 101 (DA 124) - 350 100				N/A
		↑ RA	↑ DA	↑ RVR (m)	↑ CLG (ft)

RA Radio Altimeter Height

An indication of the vertical distance between a point on the nominal glide slope at DH and the terrain directly beneath this point.

Note: ILS Cat. II criteria for aircraft Cat. E are not established.

Helicopter Circling and Sidestep Procedures

Circling procedures and sidestep minima are not promulgated for helicopters; however, this does not preclude a helicopter from flying a circling or sidestep procedure if desired. The helicopter pilot shall conduct visual manoeuvres in adequate meteorological conditions to see and avoid obstacles in the vicinity of the final approach course for Category A or H procedures.

A helicopter pilot using a Category A procedure which authorizes both straight-in and circling minima may manoeuvre at the straight-in minimum descent height (MDH) if visibility permits. However, the pilot shall be alert to operational notes regarding air traffic services (ATS) requirements while manoeuvring to land and operate within the Category A circling protected airspace.

CHANGES: HELICOPTER CIRCLING & SIDESTEP PARAGRAPH ADDED.

AIR COMMAND DENMARK - MIL AIM 15 MAY 2025



COLD WEATHER ALTITUDE CORRECTION

International Standard Atmosphere (ISA) is used as a basis for the altitude corrections below. ISA temperature at sea level is +15° Celsius, decreasing 2° per 1000 feet above sea level. When actual temperature is lower than ISA, the aircraft will be lower than indicated in its pressure altimeter. Under such circumstances a compensation should be added to altitudes flown during the approach procedure. The altimeter error is approximately 0.4% of aircraft height above reference datum (AD) per degree C below ISA.

When AD temperature is 0 degrees or colder, values in the Altitude Correction Chart should be added to:

- All procedure altitudes below Transition Level (TL) and ATC assigned IFR altitudes, if not already compensated.
- Minimum Sector Altitudes (MSA) and Emergency Safe Altitudes.

Pilots must advise ATC when temperature correction is applied, and state amount of correction or new altitude to be flown.

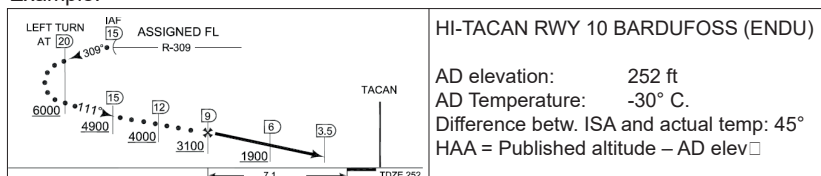
A/D Temp °C	HEIGHT ABOVE THE ALTIMETER SOURCE																
	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000	6000	7000	8000
0	20	20	30	30	40	40	50	50	60	90	120	170	230	280	340	400	460
-10	20	30	40	50	60	70	80	90	100	150	200	290	390	490	590	690	790
-20	30	50	60	70	90	100	120	130	140	210	280	420	570	710	850	1000	1150
-30	40	60	80	100	120	140	150	170	190	280	380	570	760	950	1140	1340	1540
-40	50	80	100	120	150	170	190	220	240	360	480	720	970	1210	1460	1710	1960
-50	60	90	120	150	180	210	240	270	300	450	590	890	1190	1500	1800	2110	2420
VALUES TO BE ADDED TO PUBLISHED ALTITUDES																	

VALUES TO BE ADDED TO PUBLISHED ALTITUDES

Note: The table is calculated for sea level AD. Values are conservative when applied at higher AD. (Reference: ICAO Doc 8168-OPS/611 Volume I, Table III-1-4-1 b).

For odd temperatures or altitudes the following 'rule of thumb' is easy to remember: Add 4 feet for each -1°C temperature deviation from ISA (+15 at SL), per 1000' altitude above the airport. (This method is slightly less conservative than the table above).

Example:



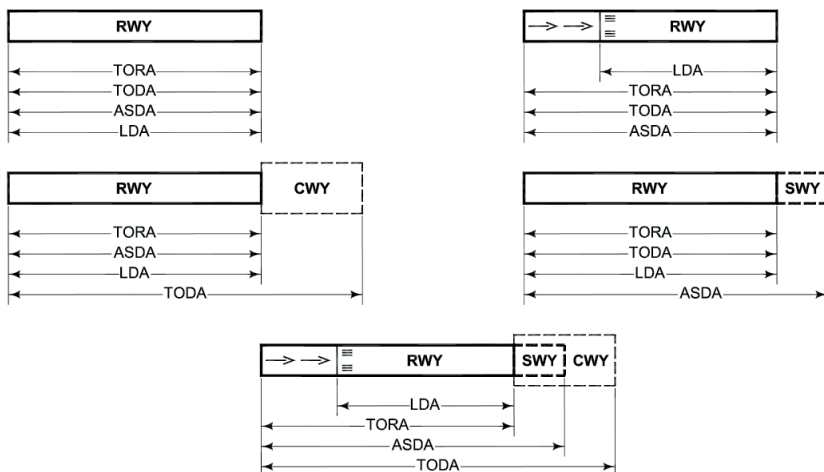
	Pub. alt.	HAA	Correction *)	Indicated alt **)
20 DME	6000	5748	+ 1100	7100
15 DME	4900	4648	+ 890	5800
12 DME	4000	3748	+ 720	4800
FAF	3100	2848	+ 550	3700
6 DME	1900	1648	+ 320	2300
MDA	1420	1168	+ 230	1650

*) Rounded up to the nearest 10 ft

**) Rounded up to the nearest 100 ft, except MDA



DETERMINATION OF DECLARED DISTANCES FOR RUNWAYS



SWY Stopway

A defined rectangular area on the ground at the end of take-off run available, prepared as a suitable area in which an aircraft can be stopped in case of an aborted take-off.

CWY Clearway

A defined rectangular area on the ground or water at the end of the runway in the direction of take-off and under control of an appropriate authority, selected or prepared as a suitable area over which an aircraft may make a portion of its initial climb to a specified height, (extension laterally to a distance of at least 75 metres either side of the extended runway centerline and not longer than half the length of the runway).

TORA Take-Off Run Available

The length of runway declared available and suitable for the ground run of an aircraft taking off.

TODA Take-Off Distance Available

The length of the take-off run available plus the length of the clearway, if provided.

ASDA Accelerate Stop Distance Available

The length of the take-off run available plus the length of the stopway, if provided.

LDA Landing Distance Available

The length of runway, which is declared available and suitable for the ground run of an aircraft landing. The LDA commences at the threshold/displaced threshold.



THE AIRCRAFT CLASSIFICATION/PAVEMENT CLASSIFICATION NUMBER (ACN/PCN) SYSTEM

1. ACN/PCN System

The ACN/PCN system provides a method of classifying pavement bearing strength for aircraft above 5700 KG Maximum Total Weight Authorized (MTWA).

The ACN is a number expressing the relative effect of an aircraft load on a pavement for a specified sub-grade strength.

The PCN is a number expressing the bearing strength of a pavement for unrestricted operations. Using the ACN/PCN system means to compare the ACN with the PCN.

2. Aircraft Classification Number (ACN)

The ACN is calculated, taking into account the weight of the aircraft, the pavement type and the sub-grade category. ACN values are normally given in the Flight Manuals for rigid and flexible pavements.

3. Pavement Classification Number (PCN)

PCN are reported as a five part code. Apart from the numerical value of the PCN, the report includes the pavement type (rigid or flexible) and the sub-grade support strength category.

Provision is made in the report for the aerodrome authority to place a limit on maximum allowable tyre pressure, if this is a constraint, and an indication is required of whether the pavement has been evaluated by technical means or by past experience of aircraft use of the pavement.

Details of the coded format and an example are:

- 3.1 The PCN number.
- 3.2 The type of pavement:
R = Rigid
F = Flexible
- 3.3 The pavement sub-grade category:
A = High
B = Medium
C = Low
D = Ultra-low
- 3.4 The maximum tyre pressure authorized for the pavement:
W = High, no limit
X = Medium, limited to 217 psi
Y = Low, limited to 145 psi
Z = Very low, limited to 73 psi



- 3.5 Pavement evaluation method:
 T = Technical evaluation
 U = By experience of aircraft using the pavement

- 3.6 Example:
 If the bearing strength of a rigid pavement resting on a medium strength sub-grade has been assessed by a technical evaluation to be a PCN of 80 and there is no tyre pressure limit, then the reported information would be:

PCN: 80/R/B/W/T

4. Operating procedure.

- Provided a pavement PCN is equal to or greater than the ACN of the aircraft unlimited use of the pavement is permitted.
- Provided the PCN is smaller than the ACN, the use of the pavement by an aircraft can only be undertaken when prior permission of the individual aerodrome authority is granted or by reduction of the aircraft load.



THE AIRCRAFT CLASSIFICATION/PAVEMENT CLASSIFICATION RATING (ACR/PCR) METHOD

2. Difference between PCN and PCR

PCR is based on a critical aircraft taken from the traffic list and uniquely determined by algorithm. This is in contrast to the PCN method, which does not designate a specific critical aircraft, but treats each aircraft in the list in turn as the critical aircraft, leaving the final selection of the PCN to the engineer.

2. ACR/PCR Method

The ACR/PCR system preserves the structure and reporting format of ACN/PCN but changes the underlying calculation procedure. The ACR/PCR method provides a method of classifying pavement bearing strength for aircraft above 5700 KG Maximum Total Weight Authorized (MTWA).

The ACR is a number expressing the relative effect of an aircraft load on a pavement for a specified standard sub-grade strength.

PCR is a number that expresses the load-carrying capacity of a pavement based on all aircraft traffic that regularly operates on the pavement. The PCR is defined as the ACR of a "critical" or reference aircraft at its maximum allowable gross weight (MAGW).

2. Aircraft Classification Rating (ACR)

The ACR is calculated, taking into account the load of the aircraft on the pavement and the subgrade category. ACR values are normally given in the Flight Manuals for rigid and flexible pavements.

3. Pavement Classification Rating (PCR)

PCR are reported as a five part code. Apart from the numerical value of the PCR, the report includes the pavement type (rigid or flexible) and the subgrade strength category. Provision is made in the report for the aerodrome authority to place a limit on maximum allowable tyre pressure, if this is a constraint, and an indication is required of whether the pavement has been evaluated by technical means or by past experience of aircraft use of the pavement.

Details of the coded format and an example are:

- 3.1 The PCR number.
- 3.2 The type of pavement:
R = Rigid
F = Flexible
- 3.3 Subgrade strength category:
A = High
B = Medium
C = Low
D = Ultra-low



- 4.4 The maximum allowed tyre pressure:
 W = Unlimited: no pressure limit
 X = High: pressure limited to 1.75 MPa.
 Y = Medium: pressure limited to 1.25 MPa
 Z = Low: pressure limited to 0,50 MPa
- 4.5 Pavement evaluation method:
 T = Technical evaluation: representing a specific study of the pavement characteristics and the types of aircraft which the pavement is intended to serve
 U = Using aircraft experience: representing a knowledge of the specific type and mass of aircraft satisfactorily being supported under regular use.
- 4.6 Example:
 If the bearing strength of a rigid pavement resting on a medium strength subgrade, has been assessed by a technical evaluation to be a PCR of 760 and there is no tyre pressure limit, then the reported information would be:

PCR: 760/R/B/W/T

4. Operating procedure.

- The PCR indicates that aircraft with an aircraft classification rating (ACR) equal to or less than the reported PCR may operate on the pavement subject to any limitation on the tire pressure or aircraft all-up mass for specified aircraft type(s).



NON-PRECISION APPROACHES – FLYING TECHNIQUES

In accordance with COMMISSION REGULATION (EC) No 859/2008 of 20 August 2008, the following is stated for civil aircraft:

... All non-precision approaches shall be flown using the continuous descent final approaches (CDFA) technique unless otherwise approved by the Authority for a particular approach to a particular runway. When calculating the minima in accordance with Appendix 1 (New), the operator shall ensure that the applicable minimum RVR is increased by 200 metres (m) for Cat A/B aeroplanes and by 400 m for Cat C/D aeroplanes for approaches not flown using the CDFA technique, providing that the resulting RVR/CMV value does not exceed 5 000 m.

There are three techniques for flying non-precision approaches:

- CDFA (Continuous descent final approach)
- Constant descent angle
- Step down descent ("dive and drive")

CDFA

Continuous descent final approach (CDFA). A technique, consistent with stabilized approach procedures, for flying the final approach segment of a non-precision instrument approach procedure as a continuous descent, without level-off, from an altitude/height at or above the final approach fix altitude/height to a point approximately 15 m (50 ft) above the landing runway threshold or the point where the flare manoeuvre should begin for the type of aircraft flown.

ICAO Doc 8168-OPS/611 Vol I § 1.7.2.2 "This technique (CDFA) requires a continuous descent, flown either with VNAV guidance calculated by on-board equipment or based on manual calculation of the required rate of descent, without level-offs".

Constant descent angle

ICAO Doc 8168-OPS/611 Vol I § 1.7.3.1 The second technique involves achieving a constant, unbroken angle from the final approach fix (FAF), or optimum point on procedures without an FAF, to a reference datum above the runway threshold, e.g. 15 m (50 ft).

When the aircraft approaches the MDA/H, a decision shall be made to either continue on the constant angle or level off at or above the MDA/H, depending on visual conditions.

ICAO Doc 8168-OPS/611 Vol I § 1.7.3.2 If the visual conditions are adequate, the aircraft continues the descent to the runway without any intermediate level-off.

ICAO Doc 8168-OPS/611 Vol I § 1.7.3.3 If visual conditions are not adequate to continue, the aircraft shall level off at or above the MDA/H and continue inbound until either encountering visual conditions sufficient to descend below the MDA/H to the runway or, reaching the published missed approach point and thereafter executing the missed approach procedure.



Step down descent (“dive and drive”)

ICAO Doc 8168-OPS/611 Vol I §1.7.4 The third technique involves an expeditious descent and is described as “descend immediately to not below the minimum step down fix altitude/height or MDA/H, as appropriate”. This technique is acceptable as long as the achieved descent gradient remains less than 15 per cent and the missed approach is initiated at or before the MAPt. Careful attention to altitude control is required with this technique due to the high rates of descent before reaching the MDA/H and, thereafter, because of the increased time of exposure to obstacles at the minimum descent altitude.

The NATO preferred flying technique

NATO is currently not recommending a preferred flying technique. Nor is visibility minima increased for flights not using the CDFA technique.

Procedure design

There are no differences in the design criteria for non-precision approaches, irrespective of the flying technique used during the final segment. However, in accordance with ICAO Doc 8168 Vol II Part I §9 4 3 5:

... Where distance information is available, to facilitate a continuous descent final approach (CDFA), descent profile advisory information for the final approach should be provided to assist the pilot in maintaining the calculated descent gradient. This information should consist of a table showing altitudes/heights through which the aircraft should be passing at each 2 km or 1 NM as appropriate.

Where DME is available all revised (MIPS) non-precision procedures in this FLIP will therefore contain a distance/altitude table in the profile view to define the distance/height relationship for the descent path angle required to facilitate the CDFA technique.

For pilots preferring the constant descent angle approach information of the descent angle/ gradient is provided in the distance/altitude table.

Pilots preferring the ‘dive and drive’ technique may ignore the distance/altitude table.



APPROACH LIGHTING SYSTEMS

For planning purposes the following approach lighting systems are to be considered as ALS:

Description	FLIP Code	System (Example)	IAC Depiction
ALFS-2 Standard length: 730/900 M *)	(A)		CAT II
ALFS-1 Standard length: 730/900 M *)	(A ¹)		CAT I
SSALR Standard length: 730/900 M *)	(A ³)		CAT I
MALS/MALSF Standard length: 420 M *)	(A ⁴) (A ⁴)		CAT I CAT I
NATO standard Standard length: 900 M *)	(BP)		CAT I
Former NATO standard Standard length: 900 M	(BN)		CAT I
CALVERT Standard length: 900 M *)	(J)		CAT I
Centerline (high intensity) Standard length: 900 M *)	(O)		CAT I

*) The actual length of the ALS is indicated in the IAC briefing strip.

In accordance with FKOBST F.152-1 chapter 36 all other systems than those mentioned above are to be considered as SRC (Single Row Centerline).



SIDESTEP PROCEDURE

A sidestep manoeuvre is the visual alignment manoeuvre, required by a pilot executing an approach to one runway and cleared to land on a parallel runway.

Pans Ops considers landing on any other runway than the approach runway as being a circling manoeuvre that requires circling minima. In some cases, this results in undesirable high minima.

In order to gain a much needed operational advantage, the sidestep procedure is introduced **as a national measure, applicable only to RDAF aircraft and only on the three airbases, Aalborg, Karup and Skrydstrup**. Landing minima to the parallel runway will be equal to or higher than the minima to the primary runway, but will normally be lower than the published circling minima.

The sidestep procedure is developed in accordance with the principles described in AFMAN 11-202 Vol 3 Flight Operations - FLIGHT OPERATIONS (10 JANUARY 2022) but using criteria from ICAO Doc. 8168 Vol II. Visibility minima are derived from STANAG 3759 (AATCP-1(E)), FAA Order 8260.3F Flight Procedures and Airspace (09/07/2023) and FKOBSST F.152.1, chapter 36 whichever is the highest.

The procedure ensures adequate obstacle clearance within the entire final approach area covering both the approach runway and the sidestep runway. Area width depends on the navaid used as well as the location of the navaid, i.e. the area for an ILS or a Localizer only approach is narrower than that of a VORTAC. The obstacle clearance altitude (OCA) for the sidestep procedure has been calculated in parallel with that of the approach runway and the highest of the two determines the sidestep minima. However, the published minimum is never below the MDH as determined by FKOBSST F.152.1, chapter 36 per aircraft type for landing on parallel runways.

How to fly a sidestep procedure:

- Do NOT initiate the sidestep manoeuvre prior to passing the FAP/FAF.
- After the FAP/FAF commence the sidestep manoeuvre as soon as possible after the runway or runway environment is in sight.
- Comply with any minimum altitude associated with step down fixes.
- Maintain the sidestep MDA until reaching a point where a normal descent to land on the sidestep runway can be started.
- If you lose visual reference during the manoeuvre, follow the missed approach specified for the approach procedure just flown, unless otherwise directed. An initial climbing turn towards the approach runway will ensure that the aircraft remains within the obstruction clearance area.

Sidestep minima are published only for Aalborg, Karup and Skrydstrup.

Sidestep minima are not promulgated for helicopters – use straight-in minima (see p. 20-10).



RADIO NAVIGATIONAL AIDS

VOR / TACAN / DME					
Station	ID	Facility	Var.	Freq / Ch	Position
Aalborg	AAL	VOR	4°E (2022)	116.70	N57°06.22' E009°59.74'
Aalborg	AAL	TACAN	4°E (2023)	CH 114X	N57°06.24' E009°59.57'
Alsie	ALS	VOR	4°E (2022)	114.70	N54°54.33' E009°59.60'
Bella	BEL	DME		114.65/CH 93Y	N55°47.47' E012°05.75'
Codan	CDA	DME		114.90/CH 96X	N55°00.09' E012°22.75'
Esebo	ESE	DME		116.60/CH 113X	N55°31.35' E008°33.52'
Karup	KAR	TACAN	4°E (2023)	CH 37X	N56°17.80' E009°00.52'
Kastrup	KAS	DME		112.50/CH 72X	N55°35.43' E012°36.82'
Korsa	KOR	VOR/DME	4°E (2022)	112.80/CH 75X	N55°26.36' E011°37.89'
Lemme	LME	DME		115.35/CH 100Y	N55°59.56' E008°21.26'
Odin	ODN	DME		115.50/CH 102X	N55°34.86' E010°39.18'
Ramme	RAM	DME		111.85/CH 55Y	N56°28.70' E008°11.24'
Rønne	ROE	VOR	4°E (2016)	112.00	N55°03.94' E014°45.52'
Rønne	ROE	TACAN	5.5°E (2023)	CH 57X	N55°03.71' E014°45.35'
Skrydstrup	SKR	TACAN	4°E (2023)	CH 41X	N55°13.74' E009°12.84'
Trano	TNO	VOR/DME	4°E (2022)	117.40/CH 121X	N55°46.45' E011°26.35'
Vamdrup	VAM	DME		110.05/CH 37Y	N55°26.28' E009°20.10'

NDB			
Station	ID	Freq (KHz)	Position
Stauning	AU	346	N55°59.46' E008°19.10'
Vamdrup	KD	357	N55°26.60' E009°20.09'
Roskilde	RK	368	N55°37.39' E011°59.83'
Aarhus	TL	384	N56°18.02' E010°37.12'
Stauning	VJ	328	N55°59.32' E008°25.47'
Skrydstrup	VO	321	N55°13.48' E009°16.42'



NDB BEARING/DISTANCE FROM VOR/TACAN

Bearings from the VOR/TACAN facility are magnetic (and equal to the radial), corrected for the variation published in MIL AIP page ENR 4.1 (See also page 20-20). Distances are in nautical miles.

	AAL	ALS*)	KAR	KOR	SKR	TNO
AU	216.4° 87.0	315.4° 86.8	227.9° 29.6	283.8° 117.2	322.7° 55.0	274.3° 106.2
KD	188.7° 102.2	321.3° 39.5	163.7° 52.5	267.1° 78.5	013.8° 13.5	251.3° 74.3
RK	138.2° 111.3	053.1° 81.2	106.6° 108.6	044.2° 16.6	070.8° 98.0	111.4° 21.0
TL	152.5° 52.5	010.0° 86.5	085.1° 53.8	323.0° 62.1	031.8° 80.1	315.3° 42.0
VJ	214.5° 84.9	317.2° 84.3	222.9° 27.0	284.2° 113.7	325.9° 53.0	274.5° 102.7
VO	188.4° 115.5	304.0° 31.4	168.0° 65.1	257.9° 81.8	093.1° 2.1	242.8° 80.9

*) No DME



VOR/TACAN BEARING/DISTANCE FROM VOR/TACAN

Bearings from the VOR/TACAN facility are magnetic (and equal to the radial), corrected for the variation published in MIL AIP page ENR 4.1 (See also page 20-20). Distances are in nautical miles.

	AAL	ALS*)	KAR	KOR	SKR	TNO
AAL		356.0° 132.2	029.4° 58.5	328.0° 114.0	010.7° 115.7	325.5° 93.3
ALS	176.0° 132.2		153.8° 90.1	237.0° 64.9	123.6° 33.2	220.1° 72.0
KAR	210.3° 58.5	334.6° 90.1		297.3° 102.5	351.9° 64.6	288.0° 87.6
KOR	146.6° 114.0	055.7° 64.9	115.1° 102.5		078.3° 83.8	157.9° 21.2
SKR	189.4° 115.7	302.2° 33.2	169.7° 64.6	258.3° 83.8		243.5° 82.7
TNO	144.3° 93.3	038.9° 72.0	106.0° 87.6	338.1° 21.2	063.7° 82.7	

*) No DME



LIST OF AERODROMES

Aerodrome	Lat/Long	RWY	RWY length		Freq.	Phone	PPR
EKAE (Ærø)	N54 51,2 E010 27,4	15/33	2591 x 98 ft	○	123.175	6352 6367	Y
EKAH (Århus)	See page 2-1						
EKAT (Anholt)	N56 42,0 E011 33,3	03/21	2132 x 65 ft	○	131.500	4619 1114	N
EKBI (Billund)	See page 3-1						
EKCH (Kastrup)	See page 6-1						
EKEB (Esbjerg)	See page 4-1						
EKEL (Endelave)	N55 45,3 E010 15,2	11/29	2132 x 82 ft	○	129.800	7568 9062	N
EKGH (Grønholt)	N55 56,4 E012 22,9	11/29	2393 x 59 ft	●	122.500	3332 6560	Y
EKHG (Herning)	N56 11,1 E009 02,8	09/27	3933 x 98 ft	●	121.000	9714 1244	N
EKKH (Holbæk)	N55 44,0 E011 36,2	10/28	1853 x 59 ft	○	123.500	2694 4174	Y
EKHV (Haderslev)	N55 18,2 E009 31,4	10/28	3674 x 75 ft	●	122.225	4087 8640	N
EKKA (Karup)	See page 5-1						
EKKL (Kalundborg)	N55 42,1 E011 15,1	09/27	2293 x 59 ft	●	122.500	5929 1123	N
EKLS (Læsø)	N57 16,7 E011 00,3	07/25	3044 x 75 ft	●	123.175	2498 3595	N
EKL V (Lemvig)	N56 30,2 E008 18,3	08/26	2434 x 98 ft	○	123.500	9782 1368	N
Lindtorp	N56 23,7 E008 26,5	08/26	3937 x 98 ft	●	122.500	9748 7573	N
EKMB (Maribo)	See page 7-1						
EKNM (Morsø)	N56 49,5 E008 47,2	11/29	2296 x 98 ft	○	122.075	9772 0004	N
Næstved	N55 12,6 E011 43,1	07/25	1387 x 49 ft	○	N/A	6173 1950	N
EKOD (Odense)	See page 8-1						
EKPB (Kruså/Padborg)	N54 52,3 E009 16,8	06/24	3523 x 98 ft	●	122.075	7467 6517	N
EKRA (Rårup)	N55 46,6 E009 56,5	10/28	2296 x 65 ft	○	122.500	4010 7707	Y
EKRD (Randers)	N56 30,4 E010 02,3	07/25	2952 x 75 ft	●	122.075	8640 4011	N
EKRK (Roskilde)	See page 9-1						
EKRN (Rønne)	See page 10-1						
EKRS (Ringsted)	N55 25,6 E011 48,4	05/23	2404 x 131	○	123.500	2029 3428	N
EKSB (Sønderborg)	See page 15-1						
EKSD (Spjald)	N56 06,2 E008 30,9	14/32	2132 x 98 ft	○	N/A	9738 1194	Y
EKSN (Sindal)	See page 11-1						
EKSP (Skrydstrup)	See page 13-1						
EKSS (Samso)	N55 53,4 E010 36,9	10/28	2293 x 98 ft	○	123.500	4016 4044	N
EKST (Sydfyn/Tåsinge)	N55 01,1 E010 33,8	11/29	2952 x 75 ft	○	123.400		N
EKSV (Skive)	See page 12-1						
EKTD (Tønder)	N54 55,8 E008 50,5	12/30	2788 x 98 ft	○	122.500	7472 2655	N
EKTS (Thisted)	See page 16-1						
EKVB (Viborg)	N56 24,6 E009 24,6	11/29 17/35	1896 x 98 ft 2214 x 98 ft	○ ○	123.500	8660 1860	N
EKVD (Vamdrup)	See page 17-1						
EKVH (Vesthimmerland)	N56 50,9 E009 27,6	11/29	3976 x 75 ft	●	122.225	9966 7385	N
EKVJ (Stauning)	See page 14-1						
EKYT (Aalborg)	See page 1-1						

● Asphalt ○ Grass



AERODROME BEARING/DISTANCE FROM VOR/TACAN

Bearings from the VOR/TACAN facility are magnetic (and equal to the radial) corrected for the variation published in MIL AIP page ENR 4.1 (See also page 20-20). Distances are in nautical miles.

	AAL	ALS*)	KAR	KOR	SKR	TNO
EKAE	169.2° 136.3	097.0° 16.4	145.8° 98.4	225.4° 53.7	113.3° 46.8	207.7° 65.0
EKAH	152.5° 52.4	010.0° 86.5	085.1° 53.8	322.9° 62.2	031.7° 80.2	315.2° 42.1
EKAT	110.7° 56.9	021.5° 120.1	069.0° 88.1	354.1° 75.7	036.8° 118.5	360.0° 55.7
EKBI	195.2° 86.6	326.5° 57.9	167.7° 33.8	279.1° 86.2	352.4° 30.8	265.4° 77.4
EKCH	130.0° 126.0	059.8° 100.9	102.8° 129.6	068.5° 36.5	073.3° 119.9	098.3° 42.3
EKEB	203.5° 106.3	303.6° 62.0	194.5° 48.8	270.1° 105.2	304.7° 28.8	258.5° 99.2°
EKEL	169.9° 81.4	005.6° 51.9	123.4° 52.9	288.6° 50.7	043.6° 47.5	265.0° 40.3
EKGH	126.4° 105.8	047.7° 102.6	095.3° 115.2	036.0° 39.5	063.0° 116.0	068.0° 33.4
EKHG	206.0° 63.6	333.6° 83.5	165.9° 6.8	294.2° 98.5	350.2° 57.8	284.0° 84.5
EKHK	142.3° 98.3	043.3° 74.3	106.1° 93.7	352.8° 17.7	064.6° 87.1	109.3° 6.1
EKHV	184.5° 109.5	322.0° 28.8	159.6° 62.3	260.4° 72.6	063.5° 11.5	243.2° 71.2
EKKA	207.0° 56.8	336.9° 89.0	085.3° 3.9	298.4° 99.9	352.6° 64.3	288.8° 84.7
EKKL	149.1° 94.2	037.5° 64.3	110.5° 83.6	316.5° 20.3	063.0° 75.1	233.3° 7.8
EKLS	068.0° 34.5	008.9° 146.6	043.3° 88.3	345.5° 112.5	021.1° 136.9	347.0° 91.5
EKLV	233.6° 66.2	326.0° 111.7	294.4° 26.4	297.1° 128.9	334.7° 82.4	290.0° 113.8
Lindtorp	227.0° 66.5	326.0° 104.0	283.9° 19.9	295.4° 122.0	336.0° 74.9	287.7° 107.4
EKMB	156.7° 152.6	099.3° 51.7	134.2° 126.9	184.5° 45.0	107.6° 83.2	176.0° 64.6
EKNM	243.5° 43.1	337.0° 122.4	343.0° 32.6	308.3° 126.7	347.7° 97.0	302.6° 108.9
Næstved	148.3° 127.7	068.2° 62.2	120.3° 112.6	164.1° 14.0	085.7° 86.0	160.3° 35.1
EKOD	169.2° 98.5	014.5° 36.2	133.3° 66.5	269.4° 44.6	064.3° 40.9	241.0° 41.8

*)No DME

Continued next page



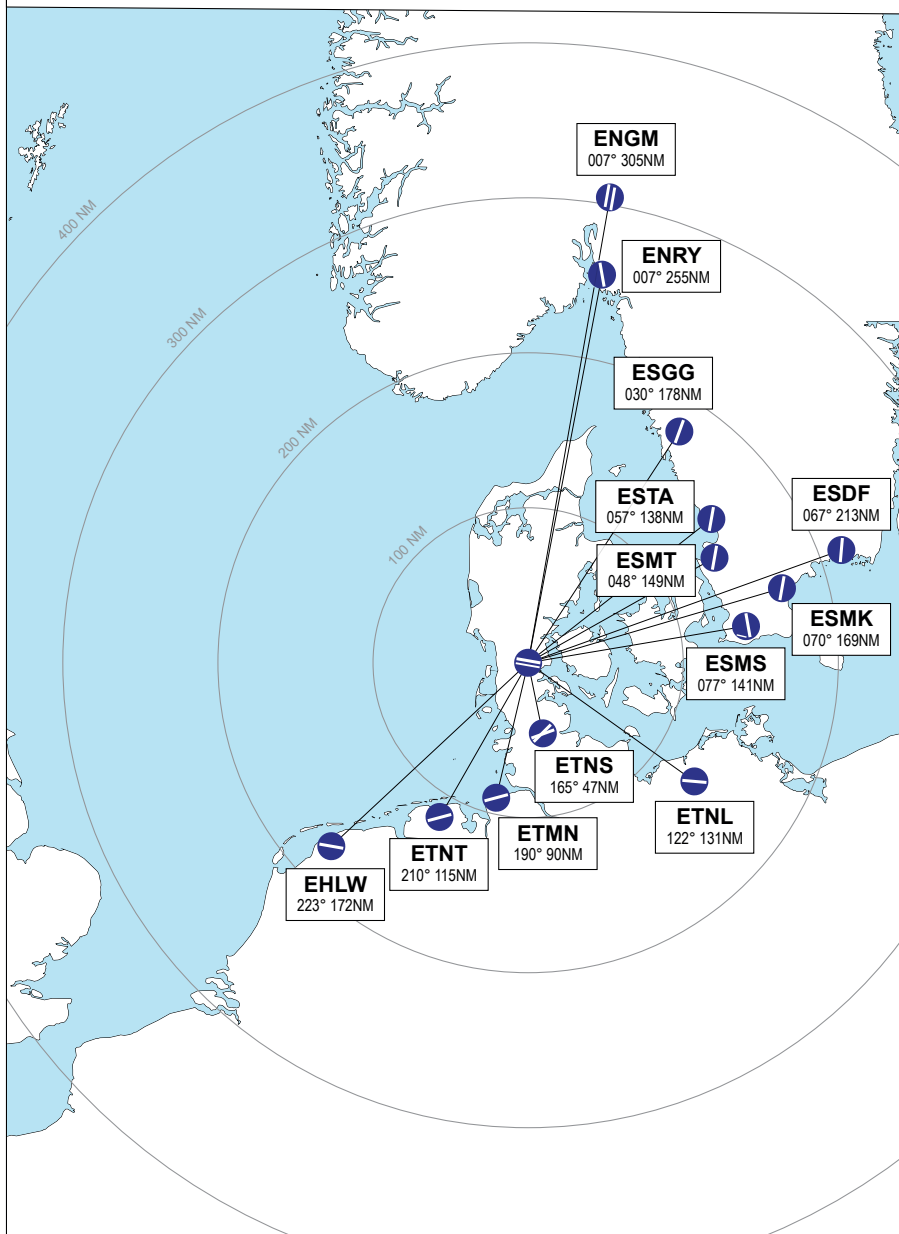
AERODROME BEARING/DISTANCE FROM VOR/TACAN (continued)

	AAL	ALS*)	KAR	KOR	SKR	TNO
EKPB	186.5° 136.4	261.4° 24.8	169.8° 86.2	244.0° 87.9	170.0° 21.7	230.6° 91.8
EKRA	177.3° 79.8	354.1° 52.5	130.5° 44.3	286.2° 61.0	033.6° 41.3	266.8° 50.7
EKRD	173.37° 35.9	356.8° 96.3	065.3° 36.5	316.7° 83.7	015.5° 81.7	309.7° 64.5
EKRK	137.1° 115.9	056.0° 84.0	106.8° 113.7	058.5° 19.2	072.6° 102.0	111.5° 26.1
EKRN	121.5° 201.7	080.7° 165.0	104.4° 208.9	096.6° 109.7	086.7° 191.1	105.3° 121.3
EKRS	144.3° 117.7	058.6° 69.8	113.8° 108.1	094.6° 6.1	077.3° 89.6	145.0° 24.9
EKSB	178.0° 128.9	292.7° 7.7	157.3° 84.5	242.3° 69.4	124.5° 25.6	225.7° 74.5
EKSD	215.7° 77.6	321.6° 87.9	231.0° 20.2	288.0° 112.9	332.0° 57.6	278.5° 100.6
EKSN	013.6° 25.2	358.8° 156.4	024.4° 82.9	336.0° 132.6	009.4° 140.9	335.4° 111.5
EKSP	188.4° 115.8	303.5° 31.4	168.2° 65.2	257.7° 82.0	100.7° 1.9	242.7° 81.2
EKSS	160.0° 75.9	015.4° 62.8	109.8° 59.2	304.5° 43.9	045.6° 62.0	280.3° 28.7
EKST	167.1° 126.9	067.0° 20.8	140.9° 93.4	231.6° 44.6	100.8° 48.2	209.6° 54.5
EKSV	215.4° 42.9	340.6° 102.7	015.7° 16.2	305.9° 106.4	355.0° 79.5	298.5° 89.2
EKTD	193.0° 136.3	268.6° 40.0	180.0° 82.4	249.4° 100.8	211.7° 22.1	237.3° 102.4
EKTS	263.7° 42.2	338.1° 137.1	343.9° 47.5	312.3° 138.5	347.4° 111.9	307.7° 119.8
EKVB	201.0° 45.9	343.9° 92.6	058.8° 15.0	304.9° 95.0	001.2° 71.3	296.2° 78.2
EKVD	188.7° 102.7	320.8° 39.2	164.0° 52.8	266.8° 78.6	013.7° 13.1	251.0° 74.6
EKVH	224.8° 23.4	347.4° 118.1	020.1° 36.3	316.2° 111.7	000.7° 97.6	311.2° 92.4
EKVJ	215.7° 86.3	316.1° 86.0	226.2° 28.7	284.0° 116.0	323.8° 54.3	274.4° 105.0
EKYT	259.4° 4.5	354.0° 131.7	025.9° 55.6	325.9° 115.9	006.6° 114.2	323.1° 95.3

*)No DME



FW FOREIGN ALTERNATE AERODROMES



LEUWARDEN (EHLW)

AERODROME CHART

ILS or LOC RWY 05

ILS or LOC RWY 23

HI-TACAN RWY 05

HI-TACAN RWY 23

TACAN RWY 05

TACAN RWY 23

ILS or LOC RWY 09

ILS or LOC RWY 27

HI-TACAN RWY 09

HI-TACAN RWY 27

TACAN RWY 09

TACAN RWY 27

SID LW1

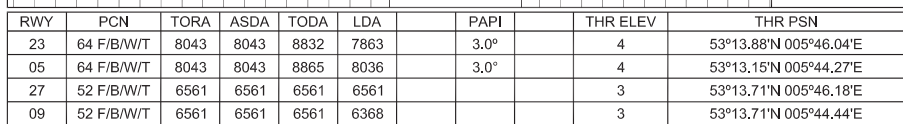
SID LW3

SID LW5

SID LW7



LEEWARDEN (EHLW)



LEEWARDEN TWR	344.850	120.705	(Ground Control)	362.525
LEEWARDEN ARRIVAL	339.700			
RAPCON NORTH	284.475	132.030		

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
SRA	MIPS	23					AB	MIPS	450-1100 446 (500-1.1/1.9)
							C		450-1200 446 (500-1.2/2.0)
							D		450-1600 446 (500-1.6/2.4)
							E		450-2000 446 (500-2.0/2.8)
	MIPS	05					AB	MIPS	470-1100 446 (500-1.1/1.9)
							C		470-1200 446 (500-1.2/2.0)
							D		470-1600 446 (500-1.6/2.4)
							E		470-2000 446 (500-2.0/2.8)
	MIPS	27					AB	MIPS	420-1900 417 (500-1.9/1.9)
							CD		420-2000 417 (500-2.0/2.0)
							E		420-2400 417 (500-2.4/2.4)
MIPS	09	AB	MIPS	460-1900 458 (500-1.9/1.9)					
		C		460-2000 458 (500-2.0/2.0)					
		DE		460-2400 458 (500-2.4/2.4)					

CHANGES: EDITORIAL

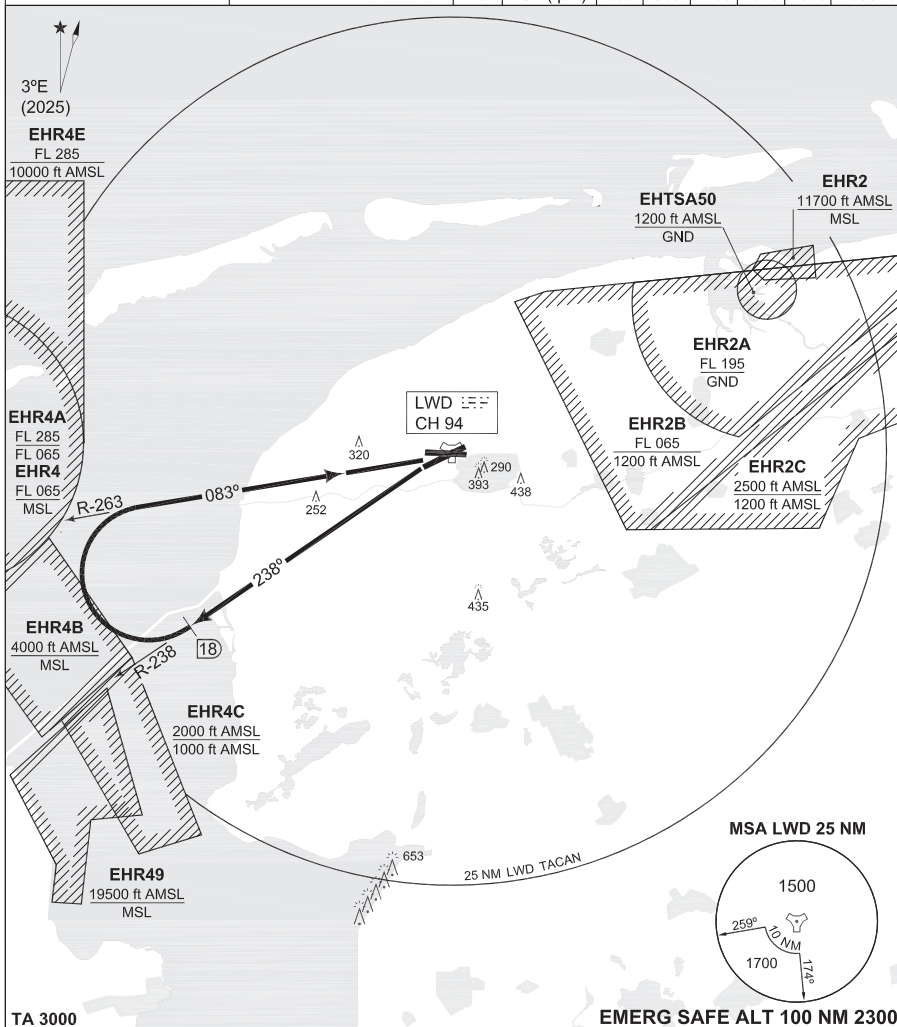
UNCLASSIFIED 16 APR 2026



TERPS INSTRUMENT DEPARTURE CHART

LW1
LEEUWARDEN (EHLW)

GND CTL 362.525	LEEWARDEN TWR 344.850 120.705	RAPCON NORTH 284.475 132.030				DUTCH MIL 259.250 128.355			
		RWY	Knots	120	180	240	300	360	to
		23	V/V (fpm)	600	900	1200	1500	1800	1000 ft



LEEUWARDEN 1
(RWY 23)

- Climb on R-238 outbound Leeuwarden TACAN.
- At 18 DME turn right to intercept R-263 inbound and proceed to Leeuwarden TACAN.

NOTE: Procedure may be changed by ATC when BREEZANDDIJK firing range is active.

LW1

53°13.52'N
005°45.15'E

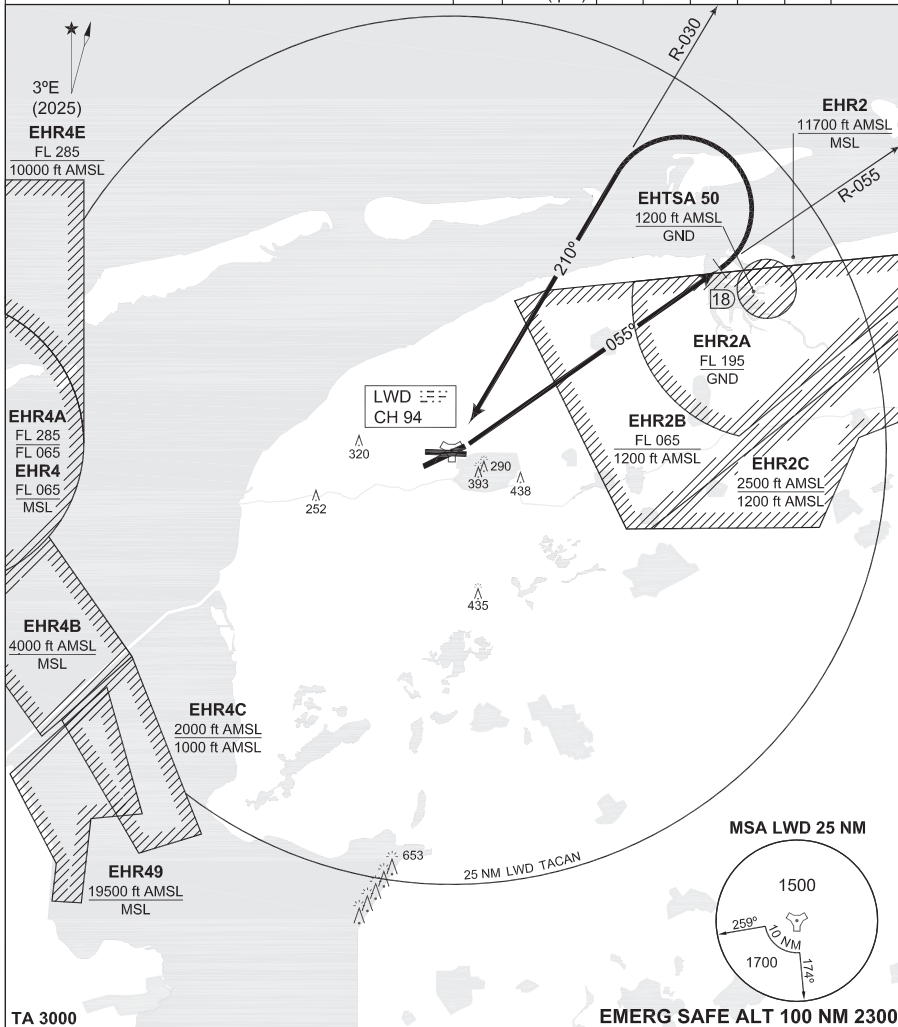
LEEWARDEN (EHLW)



TERPS
INSTRUMENT DEPARTURE CHART

LW3
LEEWARDEN (EHLW)

GND CTL 362.525		LEEUWARDEN TWR 344.850 120.705		RAPCON NORTH 284.475 132.030				DUTCH MIL 259.250 128.355			
				RWY	Knots	120	180	240	300	360	to
				05	V/V (fpm)	540	810	1080	1350	1620	1000 ft



LEEUWARDEN 3
(RWY 05)

- Climb on R-055 outbound Leeuwarden TACAN.
- At 18 DME turn left to intercept R-030 inbound and proceed to Leeuwarden TACAN.

LW3

53°13.52'N
005°45.15'E

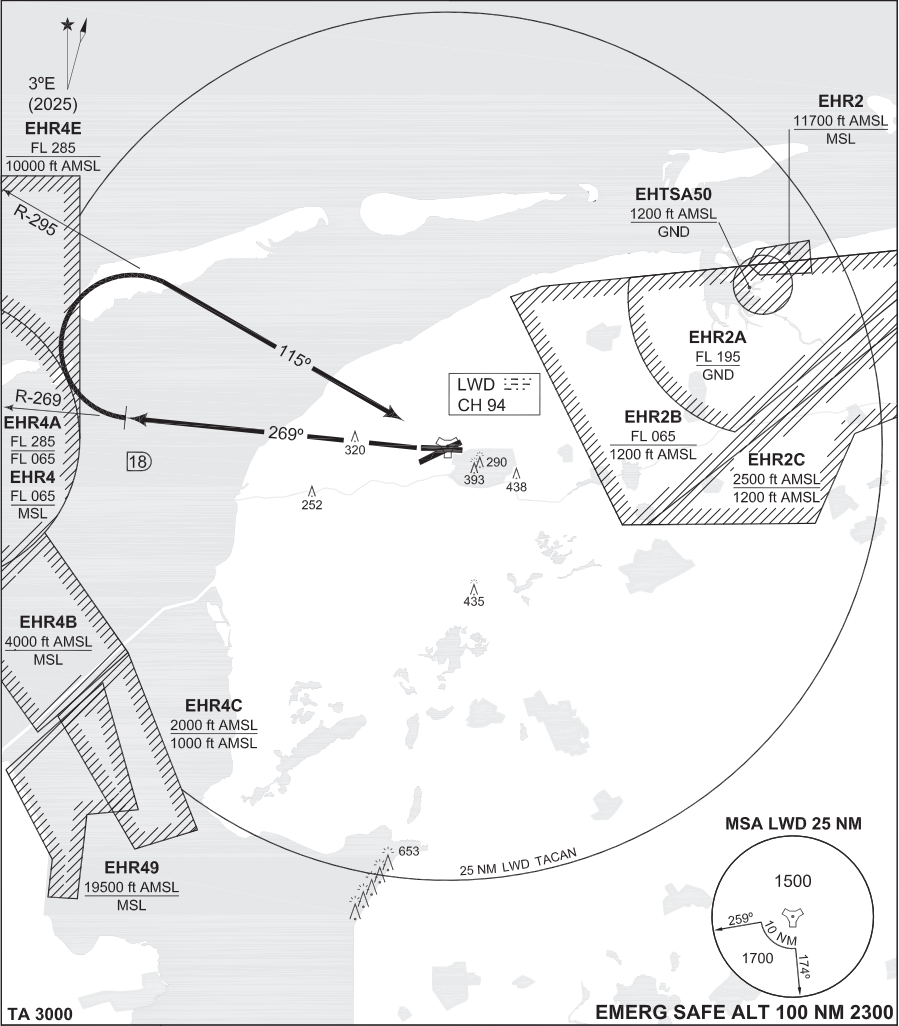
LEEWARDEN (EHLW)



TERPS
INSTRUMENT DEPARTURE CHART

LW5
LEEUWARDEN (EHLW)

GND CTL 362.525	LEEUWARDEN TWR 344.850 120.705	RAPCON NORTH				DUTCH MIL			
		284.475 132.030				259.250 128.355			
		RWY	Knots	120	180	240	300	360	to
		27	V/V (fpm)	550	825	1100	1375	1700	1000 ft



LEEUWARDEN 5 (RWY 27)	- After take-off RWY 27 intercept R-269 outbound Leeuwarden TACAN. - At 18 DME turn right to intercept R-295 inbound Leeuwarden TACAN.

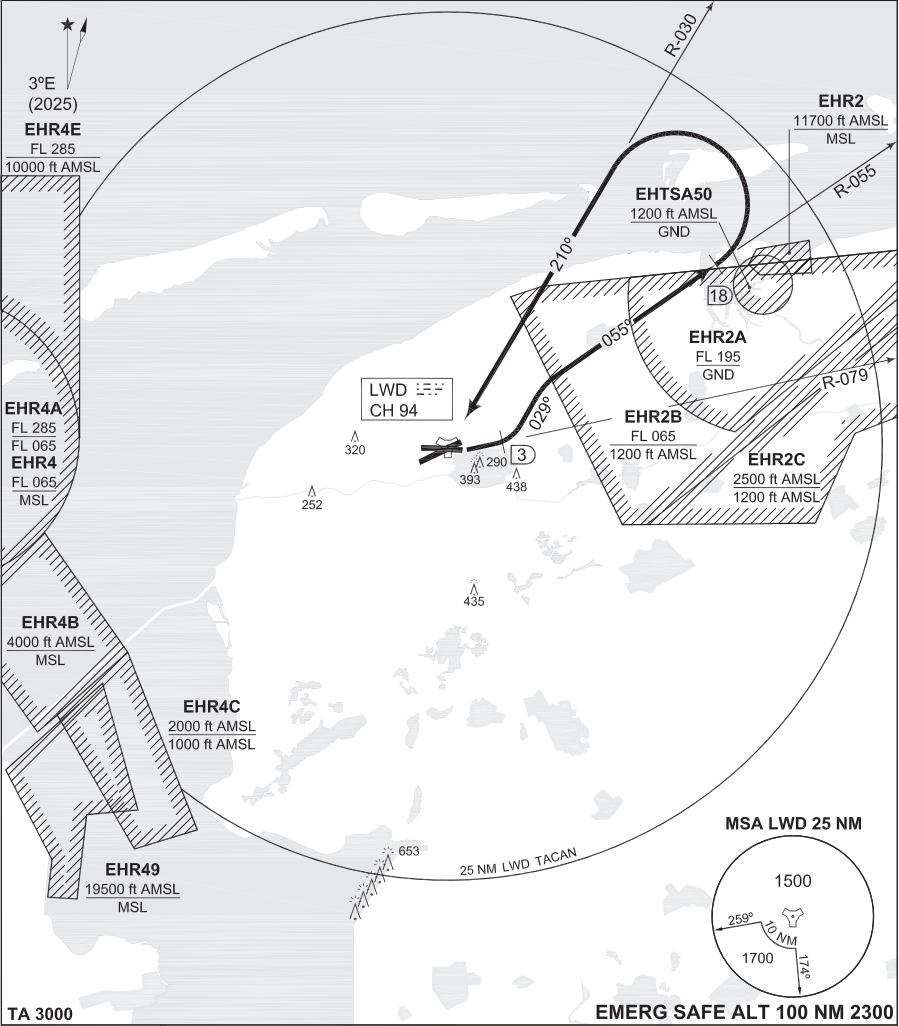
LW5 53°13.52'N 005°45.15'E LEEUWARDEN (EHLW)



TERPS
INSTRUMENT DEPARTURE CHART

LW7
LEEWARDEN (EHLW)

GND CTL 362.525	LEEWARDEN TWR 344.850 120.705	RAPCON NORTH				DUTCH MIL			
		284.475 132.030				259.250 128.355			
		RWY	Knots	120	180	240	300	360	to
		09	V/V (fpm)	750	1125	1500	1875	2250	1000 ft



LEEWARDEN 7
(RWY 09)

- After take-off intercept R-079 outbound Leeuwarden TACAN.
- At 3 DME turn left heading 029° to intercept R-055 Leeuwarden TACAN.
- At 18 DME turn left to intercept R-030 inbound Leeuwarden TACAN.

LW7

53°13.52'N
005°45.15'W

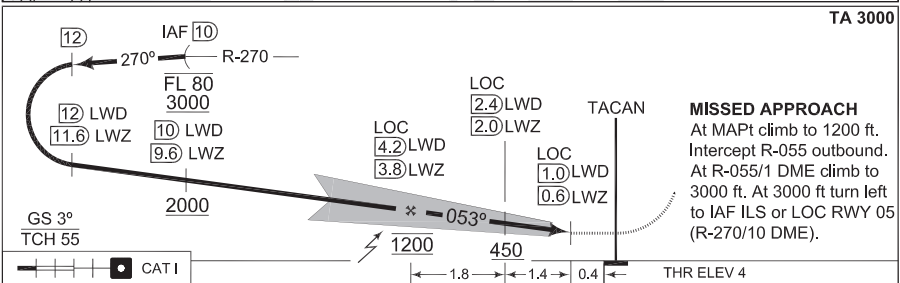
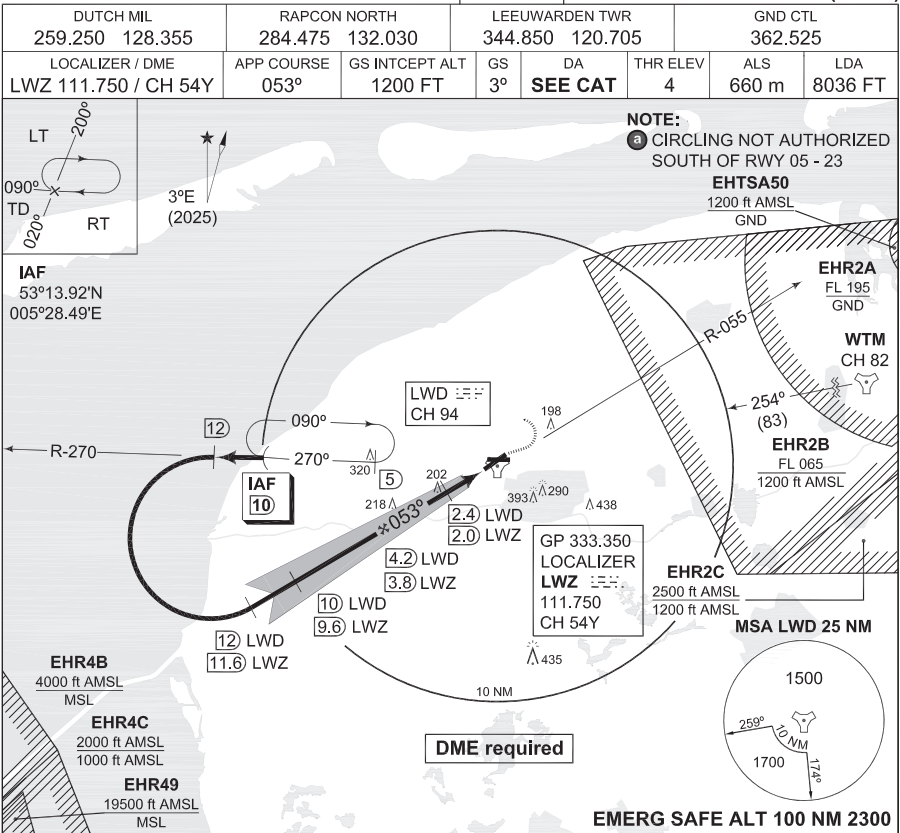
LEEWARDEN (EHLW)



MIPS
INSTRUMENT APPROACH CHART

AD ELEV 4

ILS or LOC RWY 05
LEEWARDEN (EHLW)



CATEGORY	A	B	C	D	E
S-ILS 05	204-800 200 (200-0.8/1.6)	208-800 204 (300-0.8/1.6)	218-800 214 (300-0.8/1.6)	227-800 223 (300-0.8/1.6)	246-800 242 (300-0.8/1.6)
S-LOC 05	350-800 346 (400-0.8/1.6)		350-1200 346 (400-1.2/1.6)	350-1200 346 (400-1.2/2.0)	
CIRCLING a	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

ILS or LOC RWY 05

53°13.52'N
005°45.15'E

LEEWARDEN (EHLW)

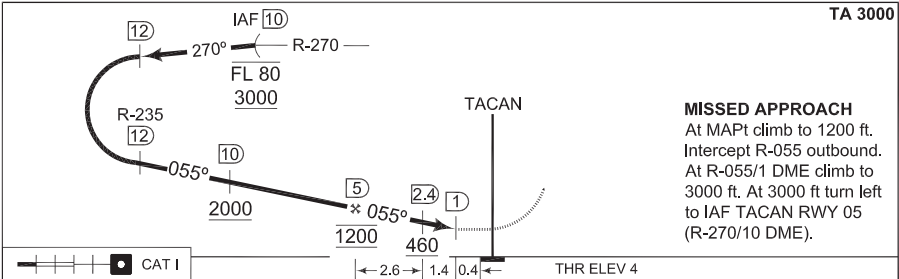
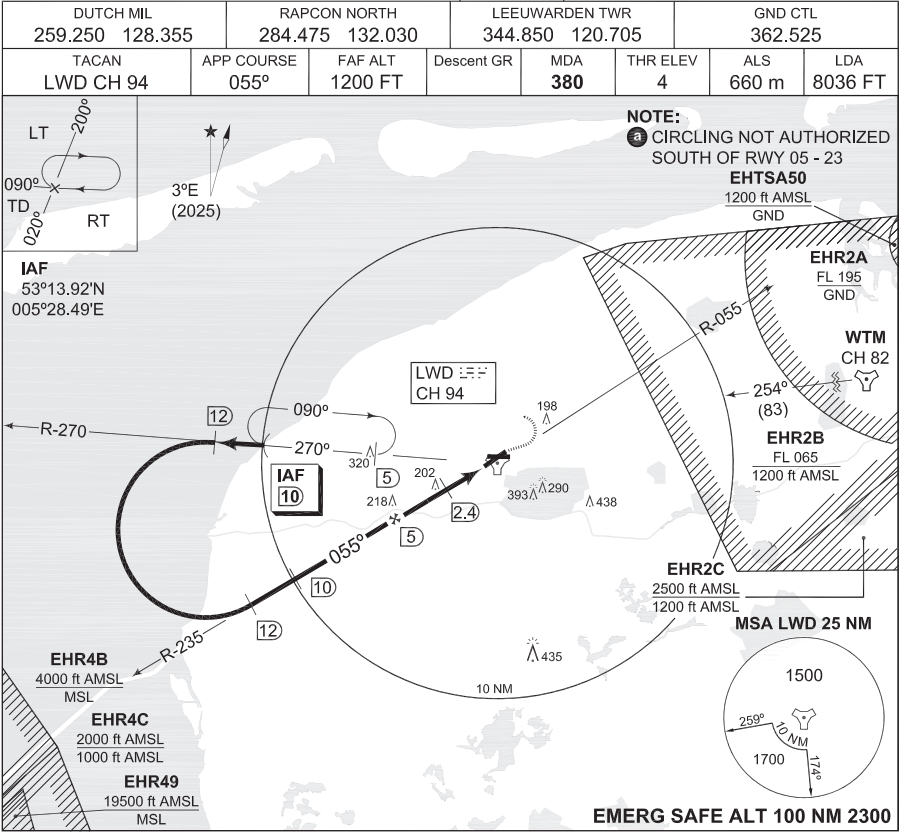


MIPS

INSTRUMENT APPROACH CHART

AD ELEV 4

TACAN RWY 05
LEEWARDEN (EHLW)



CATEGORY	A	B	C	D	E
MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1					
S-TACAN 05	380-800 376 (400-0.8/1.6)		380-1200 376 (400-1.2/1.6)	380-1200 376 (400-1.2/2.0)	
CIRCLING ^a	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

TACAN RWY 05

53°13.52'N
005°45.15'E

LEEWARDEN (EHLW)



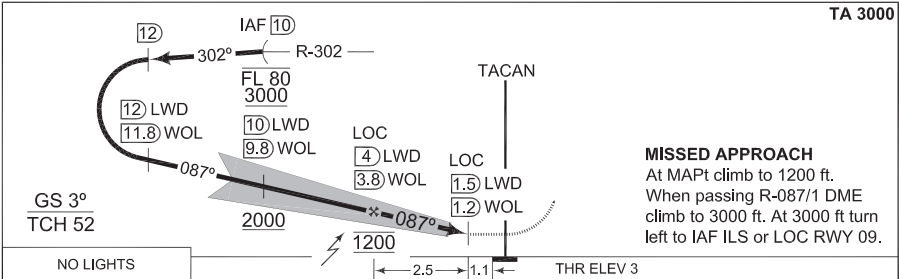
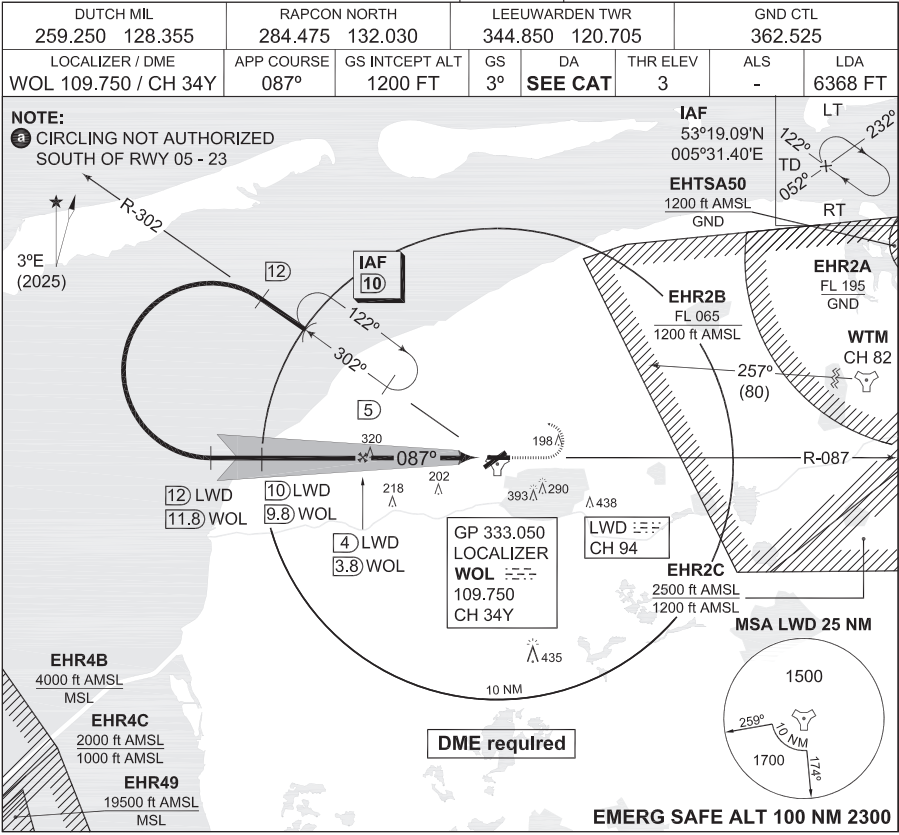
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 4

ILS or LOC RWY 09

LEEWARDEN (EHLW)



CATEGORY	A	B	C	D	E	H
S-ILS 09	221-1600 218 (300-1.6/1.6)	231-1600 228 (300-1.6/1.6)	240-1600 237 (300-1.6/1.6)	250-1600 247 (300-1.6/1.6)	268-1600 265 (300-1.6/1.6)	205-800 202 (300-0.8/0.8)
S-LOC 09	430-1600 427 (500-1.6/1.6)	430-1600 427 (500-1.6/1.6)	430-2000 427 (500-2.0/2.0)	430-2400 427 (500-2.4/2.4)	430-800 427 (500-0.8/0.8)	430-800 427 (500-0.8/0.8)
CIRCLING	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)	N.A.

ILS or LOC RWY 09

53°13.52'N
005°45.15'E

LEEWARDEN (EHLW)

CHANGES: EDITORIAL

RNLASF 16 APR 2026



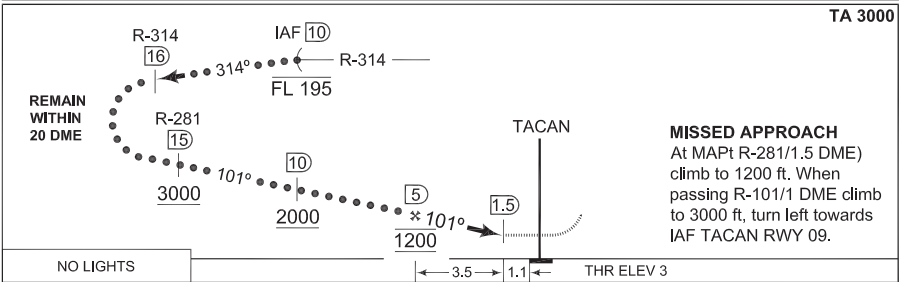
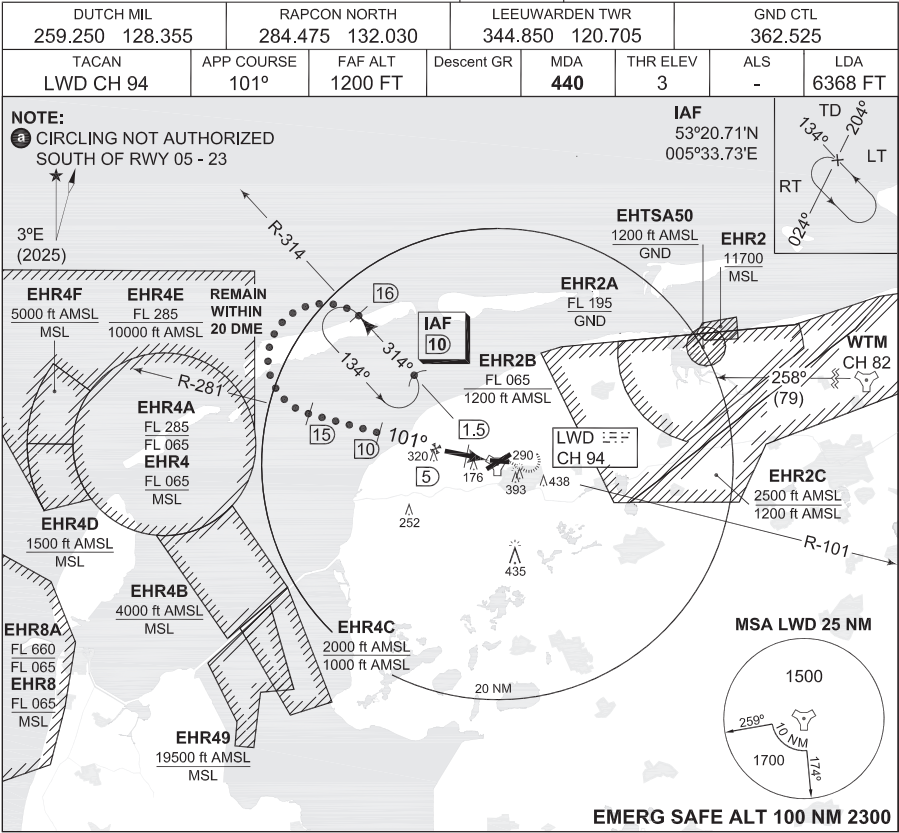
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 4

HI-TACAN RWY 09

LEEWARDEN (EHLW)



CATEGORY	C	D	E
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1		
S-TACAN 09	440-2000 437 (500-2.0/2.0)	440-2400 437 (500-2.4/2.4)	
CIRCLING a	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

HI-TACAN RWY 09

53°13.52'N
005°45.15'E

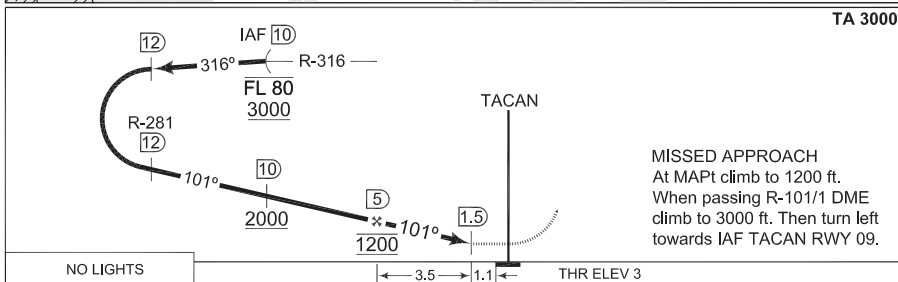
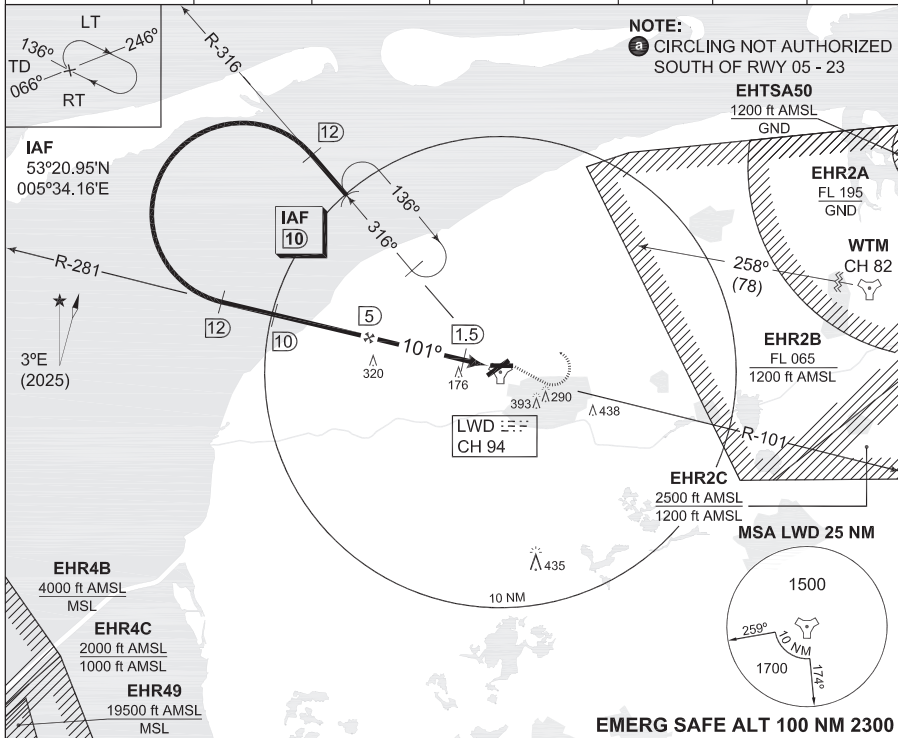
LEEWARDEN (EHLW)



MIPS INSTRUMENT APPROACH CHART

TACAN RWY 09
LEEWARDEN (EHLW)

DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEWARDEN TWR 344.850 120.705		GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 101°	FAF ALT 1200 FT	Descent GR	MDA 440	THR ELEV 3	ALS -	LDA 6368 FT



CATEGORY	A	B	C	D	E
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
S-TACAN 09	440 -1600 437 (500-1.6/1.6)		440 -2000 437 (500-2.0/2.0)	440 -2400 437 (500-2.4/2.4)	
CIRCLING 	500 -1900 496 (500-1.9)	510 -2800 506 (600-2.8)	610 -3700 606 (700-3.7)	720 -4600 716 (800-4.6)	820 -6500 816 (900-6.5)

TACAN RWY 09

53°13.52'N
005°45.15'E

LEEWARDEN (EHLW)

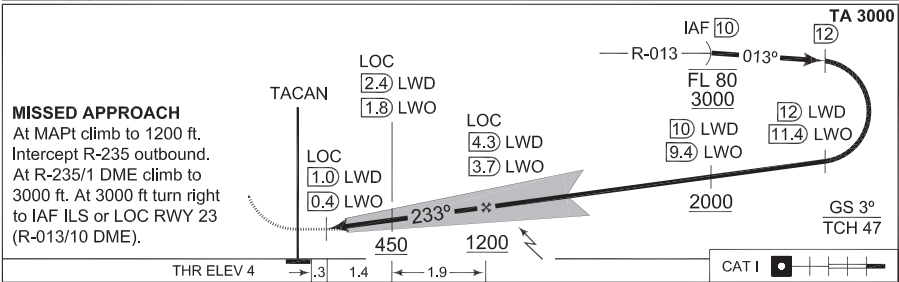
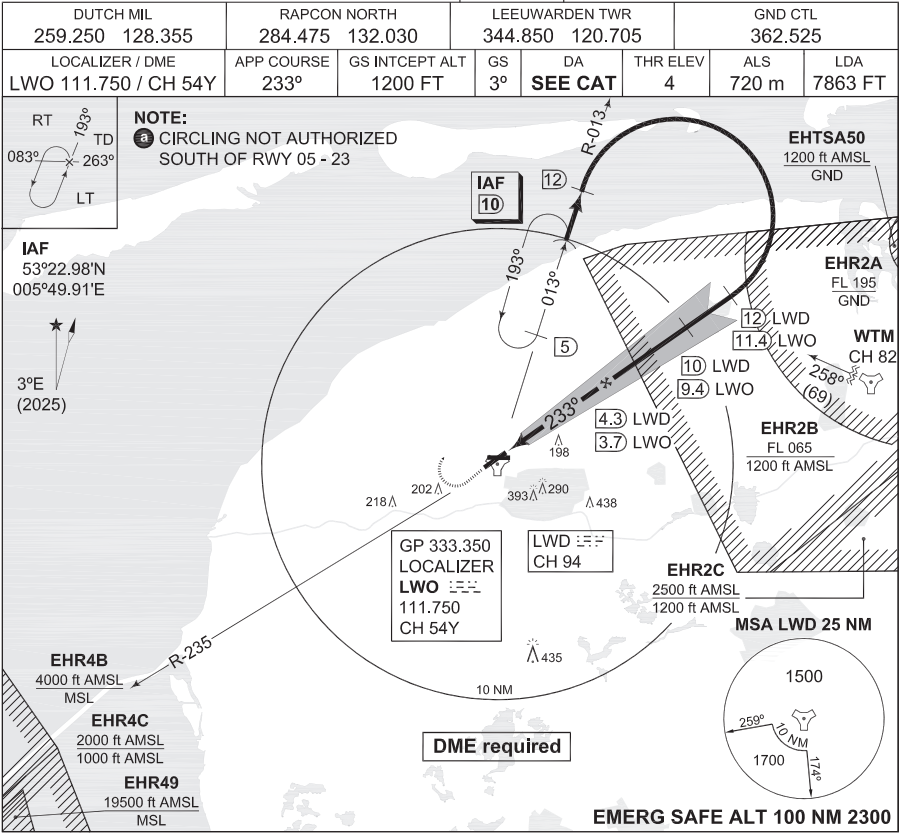
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 4

ILS or LOC RWY 23

LEEWARDEN (EHLW)



CATEGORY	A	B	C	D	E
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
S-ILS 23	217-800 213 (300-0.8/1.6)	227-800 223 (300-0.8/1.6)	237-800 233 (300-0.8/1.6)	247-800 243 (300-0.8/1.6)	265-800 262 (300-0.8/1.6)
S-LOC 23	340-800 336 (400-0.8/1.6)		340-1200 336 (400-1.2/1.6)	340-1200 336 (400-1.2/2.0)	
CIRCLING	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

ILS or LOC RWY 23

53°13.52'N
005°45.15'E

LEEWARDEN (EHLW)

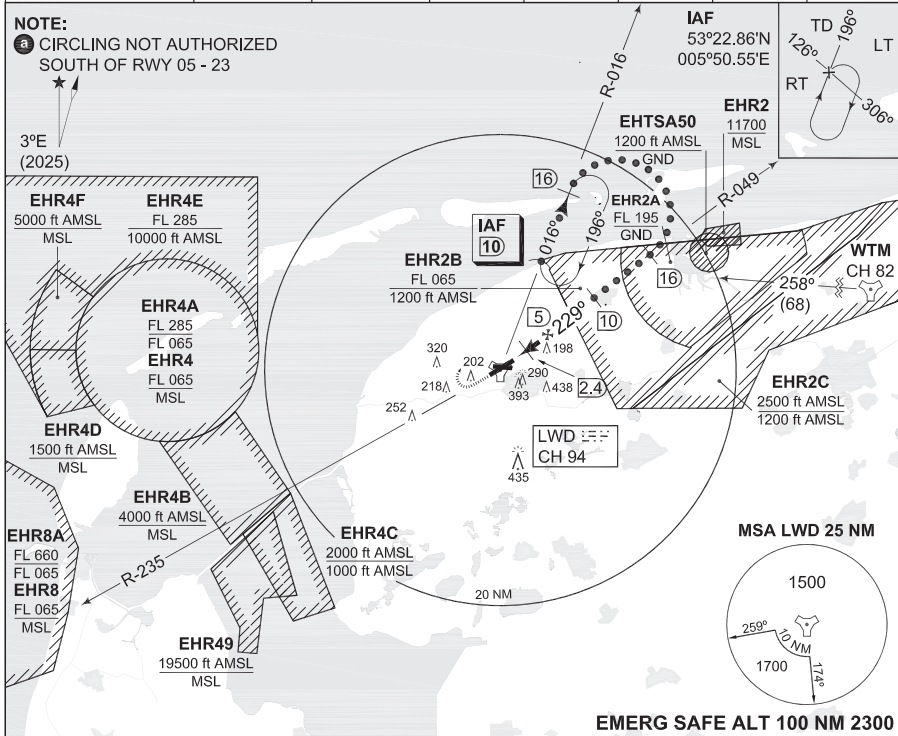


MIPS INSTRUMENT APPROACH CHART

HI-TACAN RWY 23
LEEWARDEN (EHLW)

DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEUWARDEN TWR 344.850 120.705		GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 229°	FAF ALT 1200 FT	Descent GR	MDA 380	THR ELEV 4	ALS 720 m	LDA 7863 FT

NOTE:
 CIRCLING NOT AUTHORIZED
 SOUTH OF RWY 05 - 23

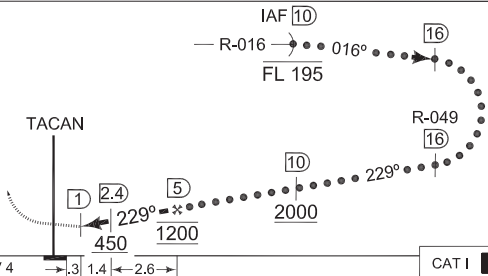


EMERG SAFE ALT 100 NM 2300

TA 3000

MISSED APPROACH

At MAPt climb to 1200 ft.
Intercept R-235 outbound.
At R-235/1 DME climb to
3000 ft. At 3000 ft turn right
to IAF TACAN RWY 23.



CAT I

CATEGORY	C	D	E
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1		
S-TACAN 23	380-1200 376 (400-1.2/1.6)	380-1200 376 (400-1.2/2.0)	
CIRCLING 	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

HI-TACAN RWY 23

53°13.52'N
005°45.15'E

LEEWARDEN (EHLW)

21-13



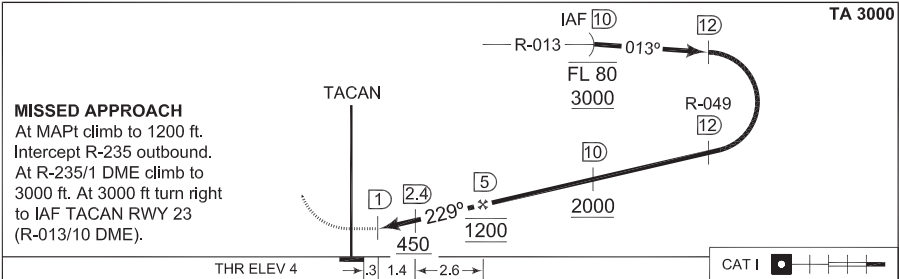
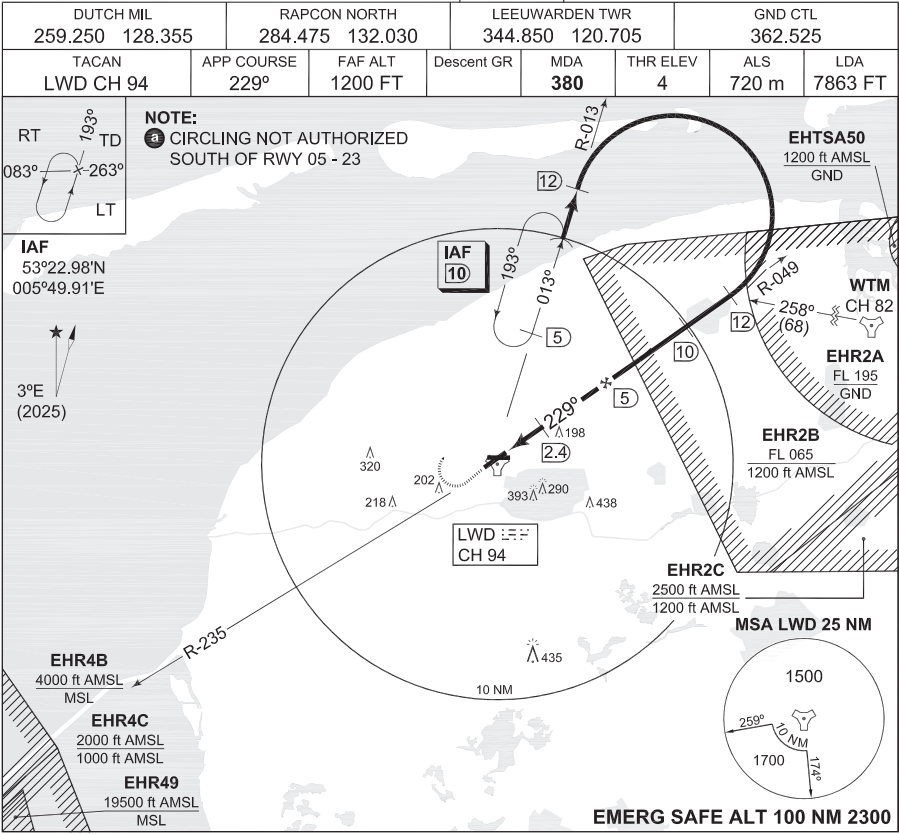
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 4

TACAN RWY 23

LEEWARDEN (EHLW)



CATEGORY	A	B	C	D	E
MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1					
S-TACAN 23	380-800 376 (400-0.8/1.6)		380-1200 376 (400-1.2/1.6)	380-1200 376 (400-1.2/2.0)	
CIRCLING a	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

TACAN RWY 23

53°13.52'N
005°45.15'E

LEEWARDEN (EHLW)



MIPS

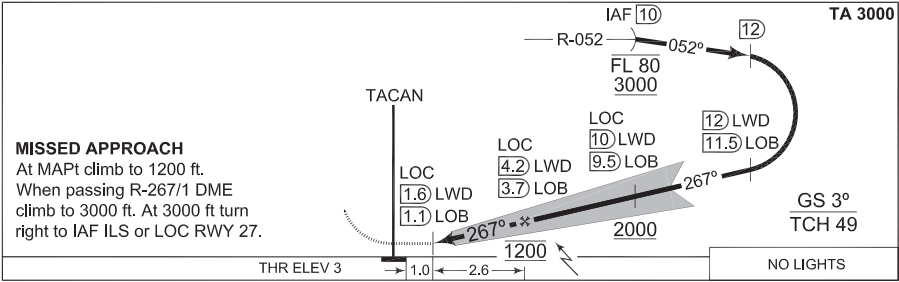
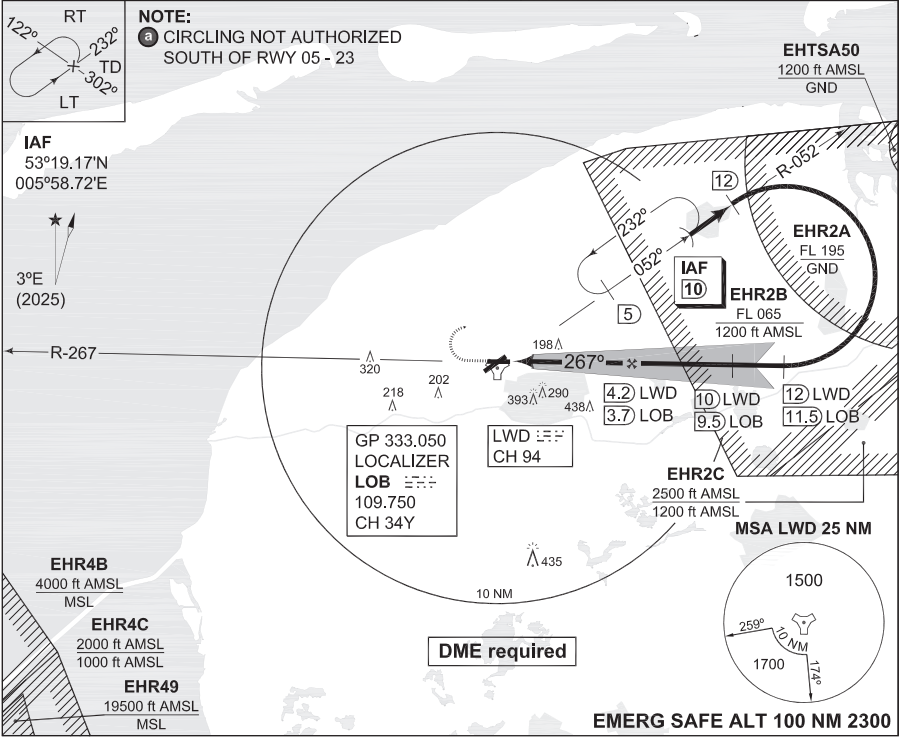
INSTRUMENT APPROACH CHART

AD ELEV 4

ILS or LOC RWY 27

LEEWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEWARDEN TWR	GND CTL
259.250 128.355	284.475 132.030	344.850 120.705	362.525
LOCALIZER / DME	APP COURSE	GS INTCEPT ALT	DA
LOB 109.750 / CH 34Y	267°	1200 FT	3°
		SEE CAT	THR ELEV 3
			ALS -
			LDA 6561 FT



CATEGORY	A	B	C	D	E	H
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1					
S-ILS 27	203-1600 200 (200-1.6/1.6)	211-1600 208 (300-1.6/1.6)	220-1600 217 (300-1.6/1.6)	230-1600 227 (300-1.6/1.6)	240-1600 237 (300-1.6/1.6)	203-800 200 (200-0.8/0.8)
S-LOC 27	360-1600 357 (400-1.6/1.6)			360-2000 357 (400-2.0/2.0)		360-800 357 (400-0.8/0.8)
CIRCLING ⓐ	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)	N.A.

ILS or LOC RWY 27

53°13.52'N

005°45.15'E

LEEWARDEN (EHLW)



MIPS INSTRUMENT APPROACH CHART

AD ELEV 4

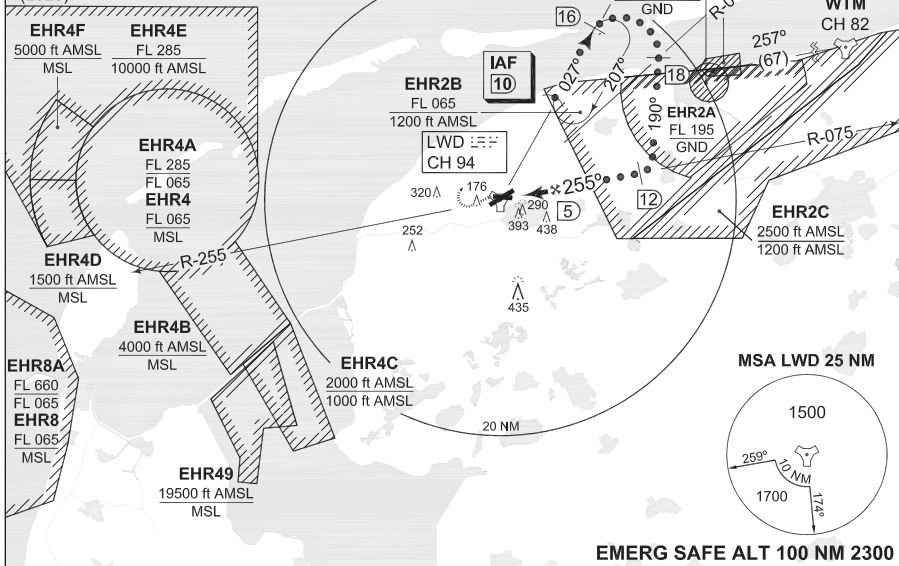
HI-TACAN RWY 27
LEEUWARDEN (EHLW)

DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEWARDEN TWR 344.850 120.705		GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 255°	FAF ALT 1200 FT	Descent GR	MDA 390	THR ELEV 3	ALS -	LDA 6561 FT

NOTE:

- a** CIRCLING NOT AUTHORIZED
SOUTH OF RWY 05 - 23

3°E
(2025)

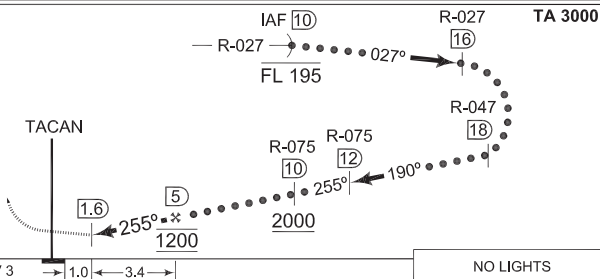


EMERG SAFE ALT 100 NM 2300

MISSED APPROACH

At MAPt climb to 1200 ft.
When passing R-255/1 DME
climb to 3000 ft, then turn
right to IAF TACAN RWY 27.

TACAN



NO LIGHTS

CATEGORY	C	D	E
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1		
S-TACAN 27	390-1600 387 (400-1.6/1.6)	390-2000 387 (400-2.0/2.0)	
CIRCLING 	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

HI-TACAN RWY 27

53°13.52'N
005°45.15'E

LEEWARDEN (EHLW)

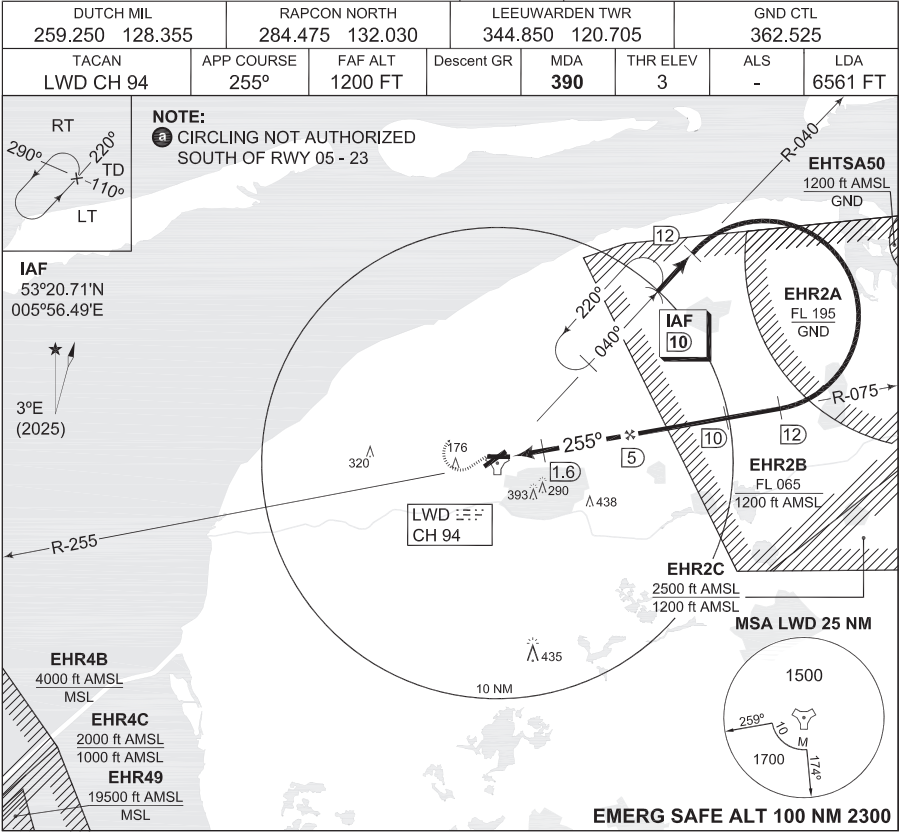
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 4

TACAN RWY 27

LEEUWARDEN (EHLW)



GARDERMOEN (ENGM)

AERODROME CHART

HPMA ILS or LOC RWY 01L

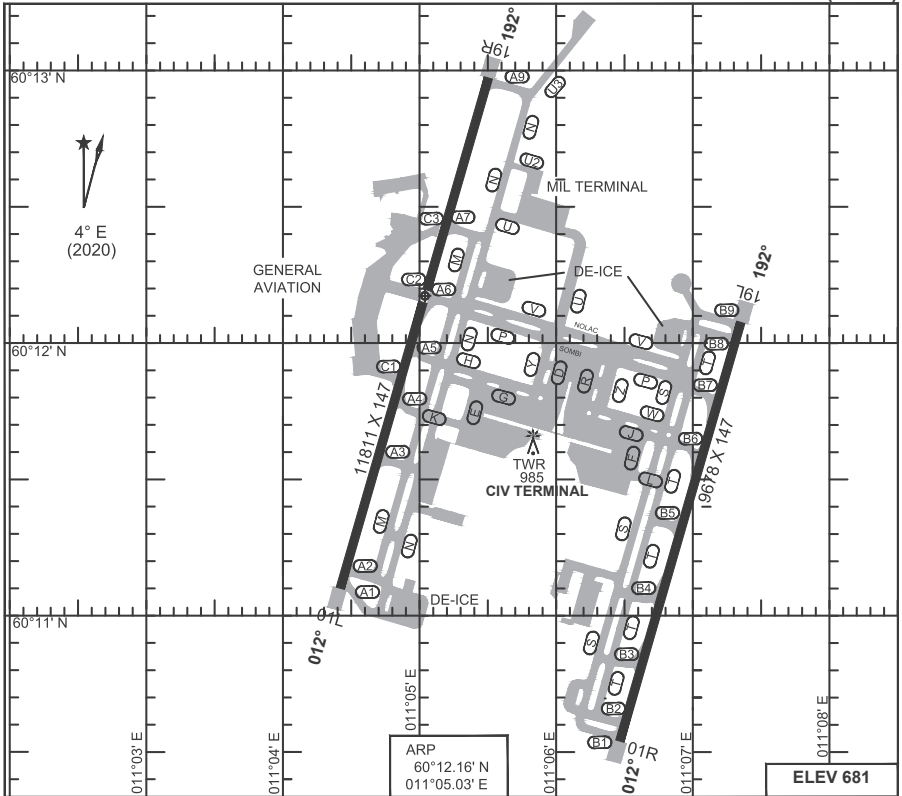
HPMA ILS or LOC RWY 19L

HPMA ILS or LOC RWY 01R

HPMA ILS or LOC RWY 19R



GARDERMOEN (ENGM)



RWY	PCN	TORA	ASDA	TODA	LDA		PAPI	ALS	TDZE	THR PSN
01L	75 F/A/W/T	11811	11811	11811	11811		3.0°	BP	656	60°11.10' N - 011°04.42' E
19R	75 F/A/W/T	11811	11811	11811	11811		3.0°	BN	675	60°12.60' N - 011°05.50' E
01R	75 F/A/W/T	9678	9678	9678	9678		3.0°	BN	670	60°10.55' N - 011°06.47' E
19L	75 F/A/W/T	9678	9678	10990	9678		3.0°	BP	681	60°12.07' N - 011°07.35' E

ATIS - DEP	127.155			
ATIS - ARR	126.130			
GARDERMOEN DELIVERY	DLV WEST 121.680			
	DLV EAST 121.930			
GARDERMOEN GROUND	GND WEST 121.605			
	GND EAST 121.905			
DE-ICE COORDINATOR	121.855			
GARDERMOEN TOWER	SECTOR WEST INCL ILS 01L/19R	118.305	257.800	
	SECTOR EAST INCL ILS 01R/19L	120.105	257.800	
GARDERMOEN OPS (MIL)	123.275	362.800		

CHANGES: DVOR/DME REMOVED.

ERNOAF 11 JUN 2026

GARDERMOEN (ENGM)



MIPS AD ELEV 681 **HPMA ILS or LOC RWY 01L**
INSTRUMENT APPROACH CHART **GARDERMÖEN (ENGM)**

ATIS		OSLO APP		DIRECTOR	FINAL	GARDERMOEN TWR		GROUND	
126.130	W 120.455	E 118.480	136.405	128.905	W 118.305	E 120.105	W 121.605	E 121.905	
LOCALIZER/DME		APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS	LDA	
QBW 110.300 / CH40X		012°	3500	3.0°	856	656	670 m	11811	

● CIRCLING NOT AUTHORIZED
EAST OF RWY 01L / 19R.

OGRAS
59°59.62' N
010°57.85' E

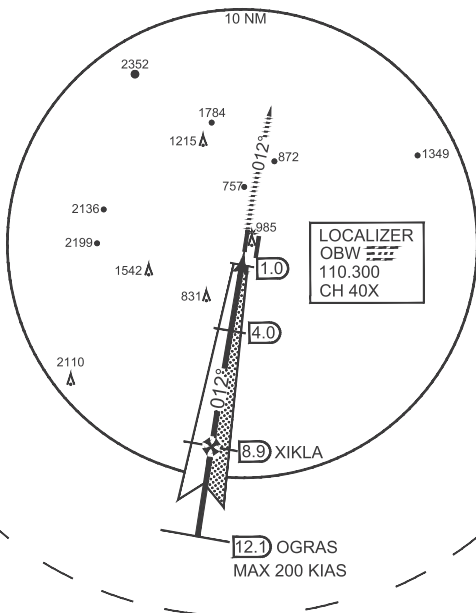
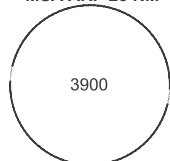
b) DME REQUIRED.

c) RADAR VECTORS TO FINAL
REQUIRED.

d) MIN 160 KIAS UNTIL
OBW 4.0 DME.



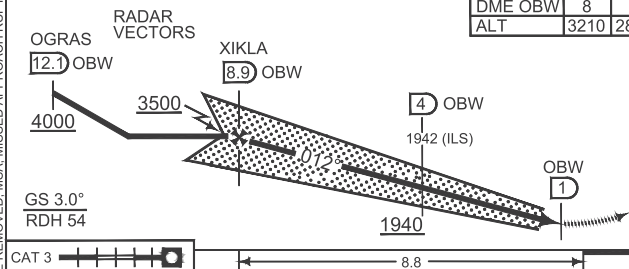
MSA ARP 25 NM



SAFE ALT 100 NM 9700

DME OBW	8	7	6	5	4	3	2
ALT	3210	2890	2570	2250	1940	1620	1300

TA 7000



Climb on track 012° to 5000 ft.
Expect vectors by Oslo App.

CATEGORY		HPMA
MIPS	S-ILS 01L	856 -800 200 (200-0.8/1.2)
	S-LOC 01L	960 -1200 304 (400-1.2/1.6)
	 CIRCLING	2040 - 3.2 1359 (1400-3.2)

HPMA ILS or LOC RWY 01L

60°12.16' N
011°05.03' E

GARDERMOEN (ENGM)



22-2



11 JUN 2026

MIPS
INSTRUMENT APPROACH CHART

AD ELEV 681

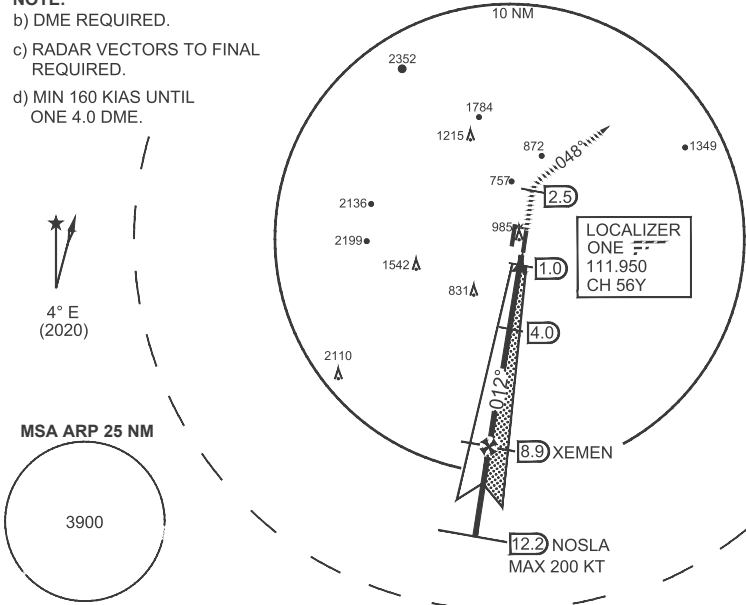
HPMA ILS or LOC RWY 01R
GARDERMOEN (ENGM)

ATIS		OSLO APP		DIRECTOR	FINAL	GARDERMOEN TWR		GROUND	
126.130	W 120.455	E 118.480		136.405	128.905	W 118.305	E 120.105	W 121.605	E 121.905
LOCALIZER/DME			APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS	LDA
ONE 111.950 / CH56Y			012°	3500	3.0°	880	670	880 m	9678

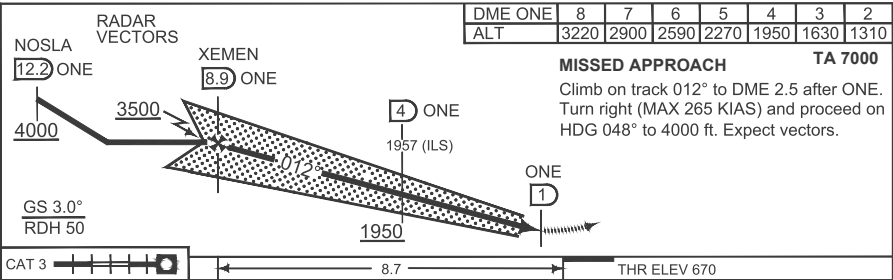
CAUTION:
● CIRCLING NOT AUTHORIZED
WEST OF RWY 01R / 19L.

- NOTE:**
- b) DME REQUIRED.
 - c) RADAR VECTORS TO FINAL REQUIRED.
 - d) MIN 160 KIAS UNTIL ONE 4.0 DME.

NOSLA
59°59.02' N
010°59.85' E



SAFE ALT 100 NM 9700



CATEGORY	HPMA
S-ILS 01R	880 - 800 210 (300-0.8/1.2)
S-LOC 01R	970 -1200 300 (300-1.2/1.6)
● CIRCLING	1570 - 3.2 889 (900-3.2)

HPMA ILS or LOC RWY 01R

60°12.16' N
011°05.03' E

GARDERMOEN (ENGM)



MIPS AD ELEV 681 HPMa ILS or LOC RWY 19L INSTRUMENT APPROACH CHART GARDERMOEN (ENGM)

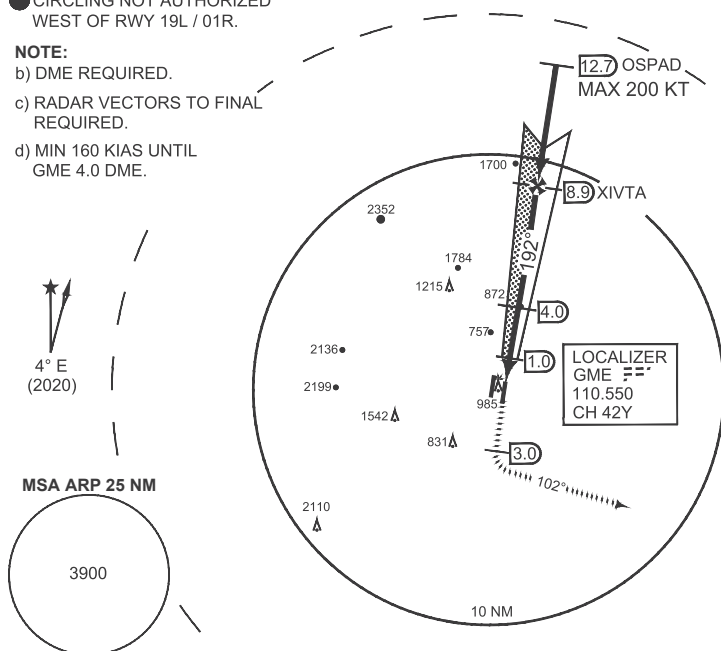
ATIS	OSLO APP	DIRECTOR	FINAL	GARDERMOEN TWR	GROUND
126.130	W 120.455 E 118.480	136.405	128.905	W 118.305 E 120.105	W 121.605 E 121.905
LOCALIZER/DME	APP COURSE	GS INTCP ALT	GS	THR ELEV	ALS LDA
GME 110.550 / CH 42Y	192°	3500	3.0°	881	900 m 9678

● CIRCLING NOT AUTHORIZED
WEST OF RWY 19L / 01R.

b) DME REQUIRED.

d) MIN 160 KIAS UNTIL
GME 4.0 DME.

OSPAD
60°24.06' N
011°14.32' E

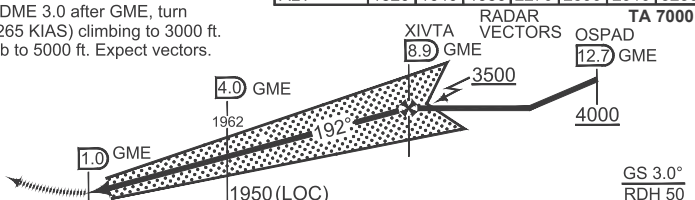


SAFE ALT 100 NM 9700

MISSED APPROACH

Climb on track 192°. At DME 3.0 after GME, turn left to track 102° (MAX 265 KIAS) climbing to 3000 ft. At DME 13.0 GME, climb to 5000 ft. Expect vectors.

DME GME	2	3	4	5	6	7	8
ALT	1320	1640	1950	2270	2590	2910	3230



- 8.7 -

 CAT 3

CATEGORY		HPMA
MIPS	S-ILS 19L	881 - 800 200 (200-0.8/1.2)
	S-LOC 19L	1030 - 1200 349 (400-1.2/1.6)
	CIRCLING	1570 - 3.2 889 (900-3.2)

HPMA ILS or LOC RWY 19L

60°12.16' N
011°05.03' E

GARDERMOEN (ENGM)



22-4



HPMA ILS or LOC RWY 19R
GARDERMOEN (ENGM)

ATIS			OSLO APP		DIRECTOR	FINAL		GARDERMOEN TWR		GROUND	
126.130	W	120.455	E	118.480	136.405	128.905	W	118.305	E	120.105	W 121.605 E 121.905
LOCALIZER/DME			APP COURSE		GS INTCP ALT		3°	DA	THR ELEV	ALS	LDA
GSW 111.300 / CH 50X			192°		3500		3°	875	675	900 m	11811

ODUDI
60°24.37' N
011°12.11' E

● CIRCLING NOT AUTHORIZED
EAST OF RWY 19R / 01L.

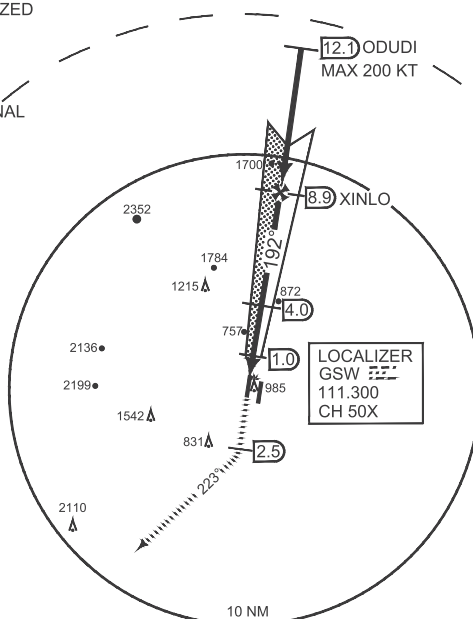
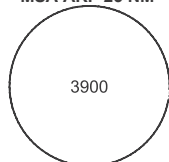
b) DME REQUIRED.

c) RADAR VECTORS TO FINAL REQUIRED.

d) MIN 160 KIAS UNTIL
GSW 4.0 DME. /



MSA ARP 25 NM

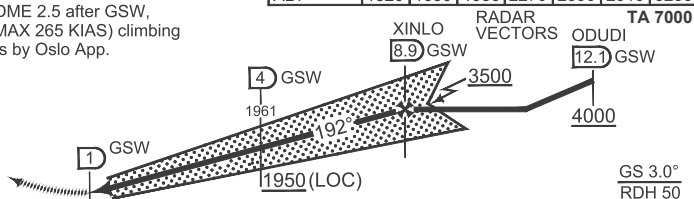


SAFE ALT 100 NM 9700

Climb on track 192°. At DME 2.5 after GSW, turn right to track 223° (MAX 265 KIAS) climbing to 5000 ft. Expect vectors by Oslo App.

DME GSW	2	3	4	5	6	7	8
ALT	1320	1630	1950	2270	2590	2910	3230

PAR TA 7000



THR ELEV 675

 CAT 3

CATEGORY		HPMA
MIPS	S-ILS 19R	875 - 800 200 (200-0.8/1.2)
	S-LOC 19R	1020 - 1200 345 (400-1.2/2.0)
	● CIRCLING	1980 - 3.2 1299 (1300-3.2)

HPMA ILS or LOC RWY 19R

60°12.16' N
011°05.03' E

GARDERMOEN (ENGM)



RYGGE (ENRY)

AERODROME CHART

TACAN RWY 12

HPMA ILS RWY 30

ILS or LOC M RWY 30

TACAN RWY 30

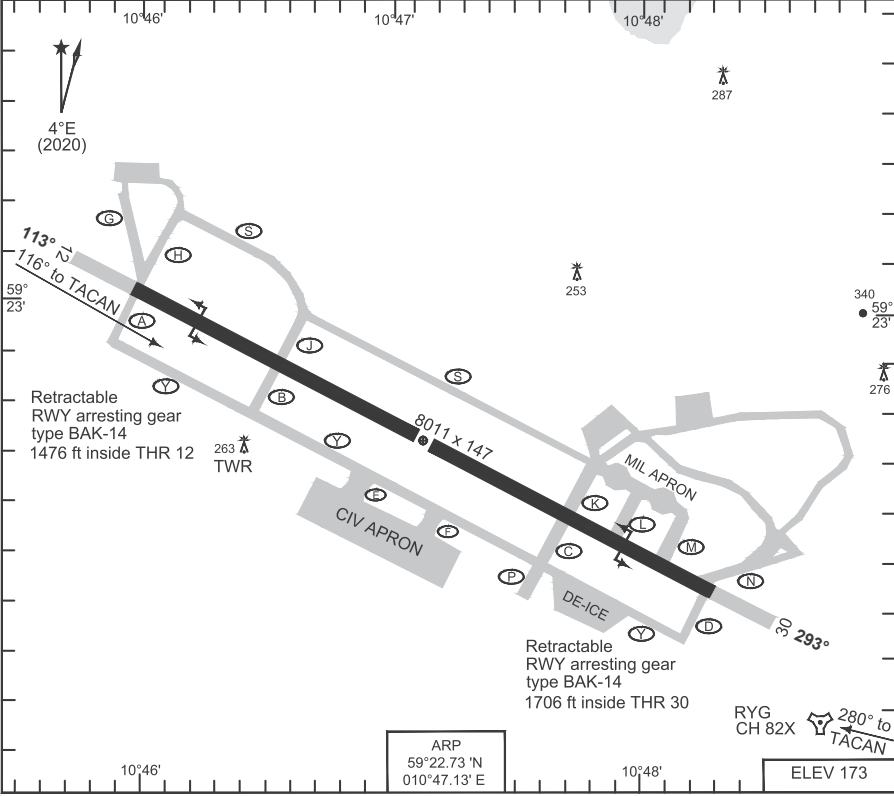
SID EAST

SID WEST



AERODROME CHART

RYGGE (ENRY)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	THR ELEV	THR PSN
12	85 F/C/X/T	8011	8011	8822	8011	3.0°	168	59°23.02' N - 010°45.97' E
30	85 F/C/X/T	8011	8011	8208	8011	3.0°	169	59°22.43' N - 010°48.28' E

ATIS 136.180
RYGGE GND 121.705
RYGGE TWR 119.505 122.100 308.850 257.800

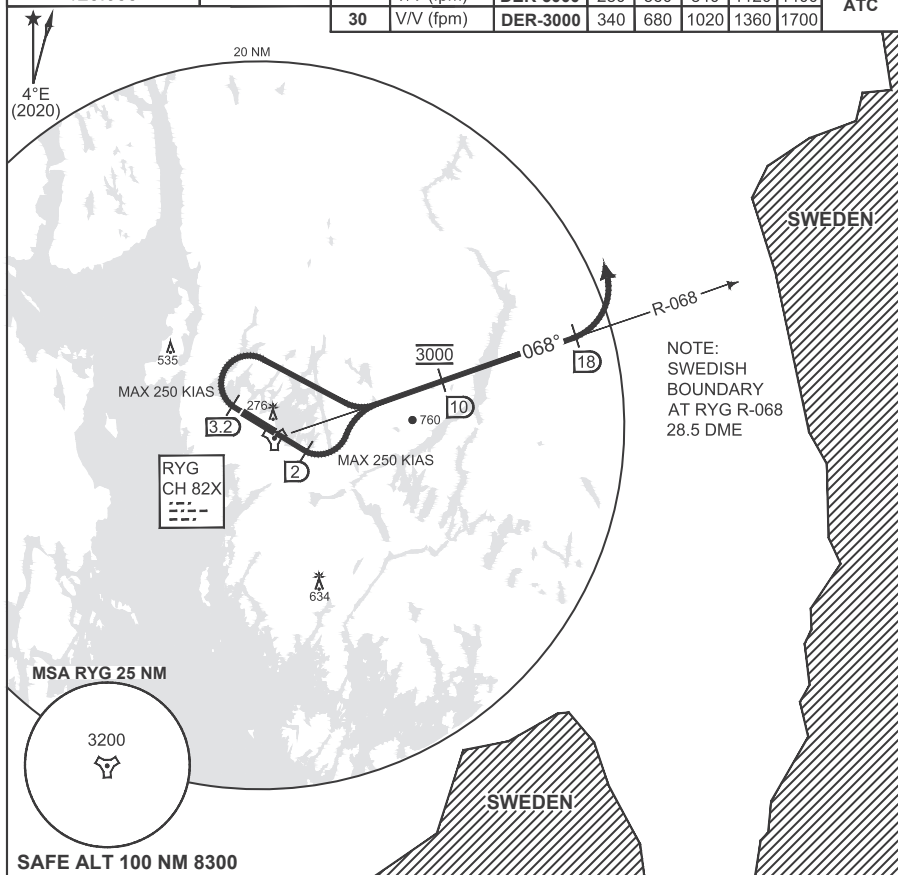
AERODROME CHART

RYGGE (ENRY)



**SID EAST
RYGGE (ENRY)**

ATIS 136.180		RYGGE TWR 119.505 122.100 308.850				FARRIS APP E 124.355 W 134.055					
POLARIS CONTROL 125.055		AD ELEV 173	RWY 12	GS (kt) V/V (fpm)	FROM-TO DER-3000	60 280	120 560	180 840	240 1120	300 1400	REASON
★			30	V/V (fpm)	DER-3000	340	680	1020	1360	1700	ATC



NOTE:
SWEDISH
BOUNDARY
AT RYG R-068
28.5 DME

TA 7000

SID EAST RWY 12	- Climb RWY track to 1000 ft or RYG 2 DME, whichever occurs first, then turn left to intercept R-068 outbound to 18 DME. Maximum 250 KIAS. Cross 10 DME at 3000 ft. Follow ATC instruction. - Minimum climb gradient 4.6% (2.7°) to 3000 ft.
SID EAST RWY 30	- Climb RWY track to 1000 ft or RYG 3.2 DME, whichever occurs first, then turn right to intercept R-068 outbound to 18 DME. Maximum 250 KIAS. Cross 10 DME at 3000 ft. Follow ATC instruction. - Minimum climb gradient 5.5% (3.2°) to 3000 ft.

RYGGE SID EAST

59°22.73' N
010°47.13' E

RYGGE (ENRY)



23-2



CHANGES: GRM DVOR/DME REMOVED.

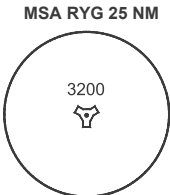
ERNOAF 11 JUN 2026

MIPS
INSTRUMENT DEPARTURE CHART

SID WEST
RYGGE (ENRY)

ATIS 136.180	RYGGE TWR 122.100 308.850				FARRIS APP 124.355 134.055					
POLARIS CONTROL 125.055	AD ELEV 173	RWY 12	GS (kt) V/V (fpm)	FROM-TO DER-4000	60 330	120 660	180 990	240 1320	300 1650	REASON
WARNING:		30	V/V (fpm)	DER-4000	220	440	660	880	1100	ATC

WARNING:
● CLOSE-IN OBSTACLES
RISING TERRAIN/VEGETATION
FROM DER RWY 30 TO 0.4 NM NW
MUST BE AVOIDED VISUALLY.



SAFE ALT 100 NM 8300



TA 7000

SID WEST RWY 12	- Climb RWY track to 1000 ft or 2 DME RYG, whichever occurs first, then turn right to intercept R-203 outbound to 20 DME. Maximum 250 KIAS. Cross 10 DME at 4000 ft. Follow ATC instruction. - Minimum climb gradient 5.4% (3.1°) to 4000 ft.
● SID WEST RWY 30	- Climb RWY track to 1000 ft or RYG 3.8 DME, whichever occurs first, then turn left to intercept R-203 outbound to 20 DME. Maximum 250 KIAS. Cross 10 DME at 4000 ft. Follow ATC instruction. - Minimum climb gradient 3.6% (2.1°) to 4000 ft.

RYGGE SID WEST

59°22.73' N
010°47.13' E

RYGGE (ENRY)



HPMA ILS or LOC RWY 30
RYGGE (ENRY)

ATIS		RYGGE GND		RYGGE TWR		FARRIS APP (WEST)		FARRIS APP (EAST)	
136.180		121.705		119.505 122.100 308.850		134.055		124.355	
ILS/DME		APP COURSE		GS INTCP ALT		GS		DA	
THR ELEV		ALS		LDA					
RY 109.100 / CH 28X		293°		3000		3.0°		388	
						169		720 m	
								8011	

a) MAX HOLDING SPEED
250 KIAS.

b) DME REQUIRED.

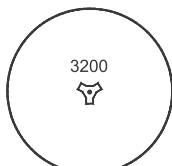
c) DME FROM RYG TAC
UNLESS INDICATED
OTHERWISE.

FILE

4°E
(2020)

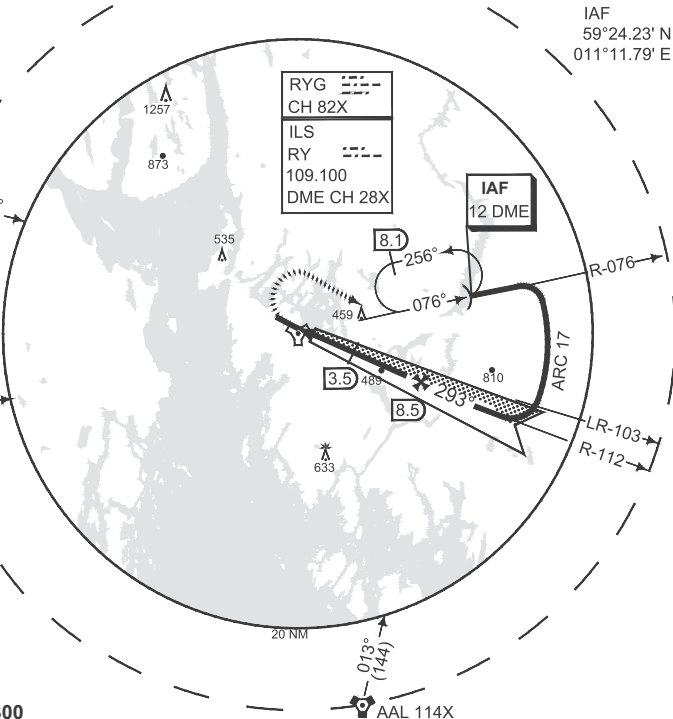
SOA 075
59Y (17)

MSA RYG 25 NM



SAFE ALT 100 NM 8300

IAF
59°24.23' N
011°11.79' E

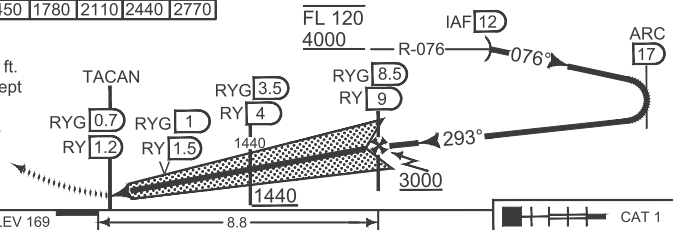


DME	2	3	4	5	6	7	8
ALT RYG	960	1290	1610	1940	2270	2600	2930
ALT BY	800	1130	1450	1780	2110	2440	2770

MISSED APPROACH

Climb RWY track to 1000 ft.
Then turn right and intercept
R-076 outbound to IAF.
Climb to 4000 ft and hold.

GS 3.0°
RDH 51



CATEGORY		HPMA
MIPS	S-ILS 30	388 - 550 219 (300-0.8/1.2)
	S-LOC 30	610 - 1400 441 (500-1.4/2.1)
	CIRCLING	730 - 3.2 557 (600-3.2)

HPMA ILS or LOC RWY 30

59°22.73' N
010°47.13' E

RYGGE (ENRY)

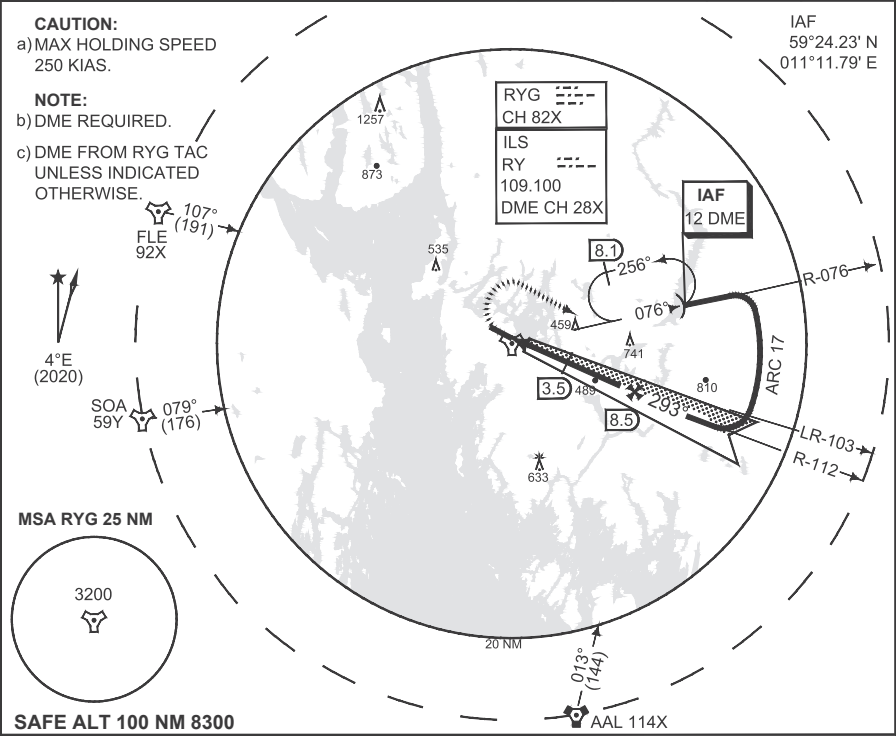


MIPS
INSTRUMENT APPROACH CHART

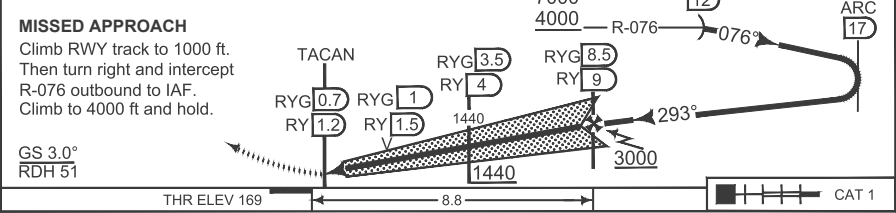
AD ELEV 173

ILS M or LOC M RWY 30
RYGGE (ENRY)

ATIS 136.180	RYGGE GND 121.705	RYGGE TWR 119.505 122.100 308.850			FARRIS APP (WEST) 134.055		FARRIS APP (EAST) 124.355	
ILS/DME RY 109.100 / CH 28X		APP COURSE 293°	GS INTCP ALT 3000	GS 3.0°	DA SEE CAT	THR ELEV 169	ALS 720 m	LDA 8011



DME	2	3	4	5	6	7	8
ALT RYG	960	1290	1610	1940	2270	2600	2930
ALT RY	800	1130	1450	1780	2110	2440	2770



CATEGORY	A	B	C	D	E
S-ILS 30	377 - 550 208 (300-0.8/1.2)	385 - 550 216 (300-0.8/1.2)	391 - 550 222 (300-0.8/1.2)	401 - 550 232 (300-0.8/1.2)	419 - 550 250 (300-0.8/1.3)
S-LOC 30	610 - 1400 441 (500-1.4/2.1)				
CIRCLING	670 - 2.3 497 (500-2.3)	670 - 2.3 497 (500-2.3)	860 - 3.2 687 (700-3.2)	880 - 3.6 707 (800-3.6)	1120 - 4.3 947 (1000-4.3)

ILS M or LOC M RWY 30

59°22.73' N
010°47.13' E

RYGGE (ENRY)



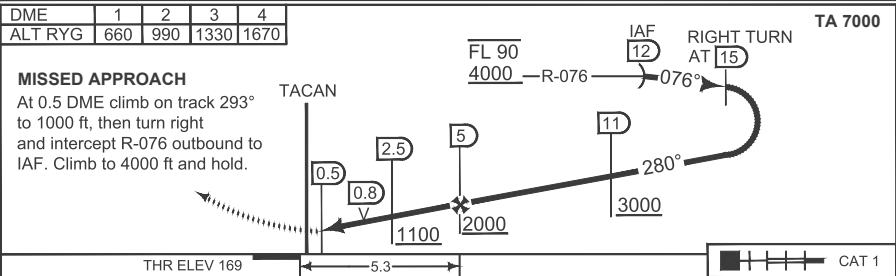
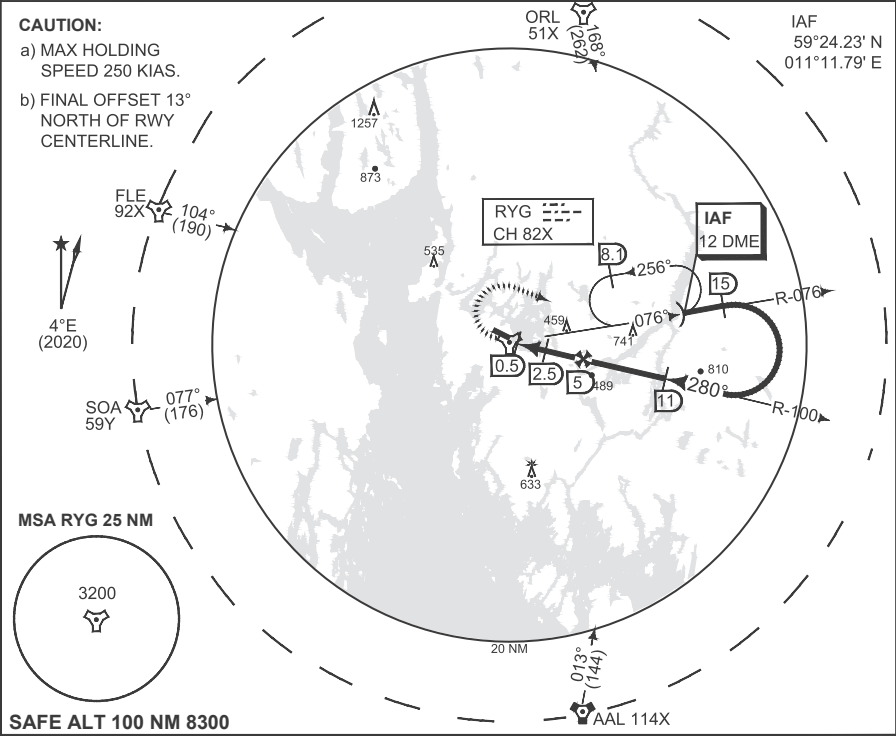
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 173

TACAN RWY 30
RYGGE (ENRY)

ATIS 136.180	RYGGE GND 121.705	RYGGE TWR 119.505 122.100	308.850	FARRIS APP (WEST) 134.055	FARRIS APP (EAST) 124.355
TACAN RYG CH 82X	APP COURSE 280°	FAF ALT 2000	Descent GR 5.6% (3.2°)	MDA 570	THR ELEV 169
					ALS 720 m
					LDA 8011



CATEGORY	A	B	C	D	E
S-TAC 30	570 - 1200 401 (500-1.2/1.9)				
CIRCLING	670 - 2.3 497 (500-2.3)	680 - 2.4 507 (600-2.4)	860 - 3.2 687 (700-3.2)	910 - 3.6 737 (800-3.6)	1150 - 4.5 977 (1000-4.5)

TACAN RWY 30

59°22.73' N
010°47.13' E

RYGGE (ENRY)



NORDHOLZ (ETMN)

AERODROME CHART

ILS or LOC RWY 08

ILS or LOC RWY 26

TACAN RWY 08

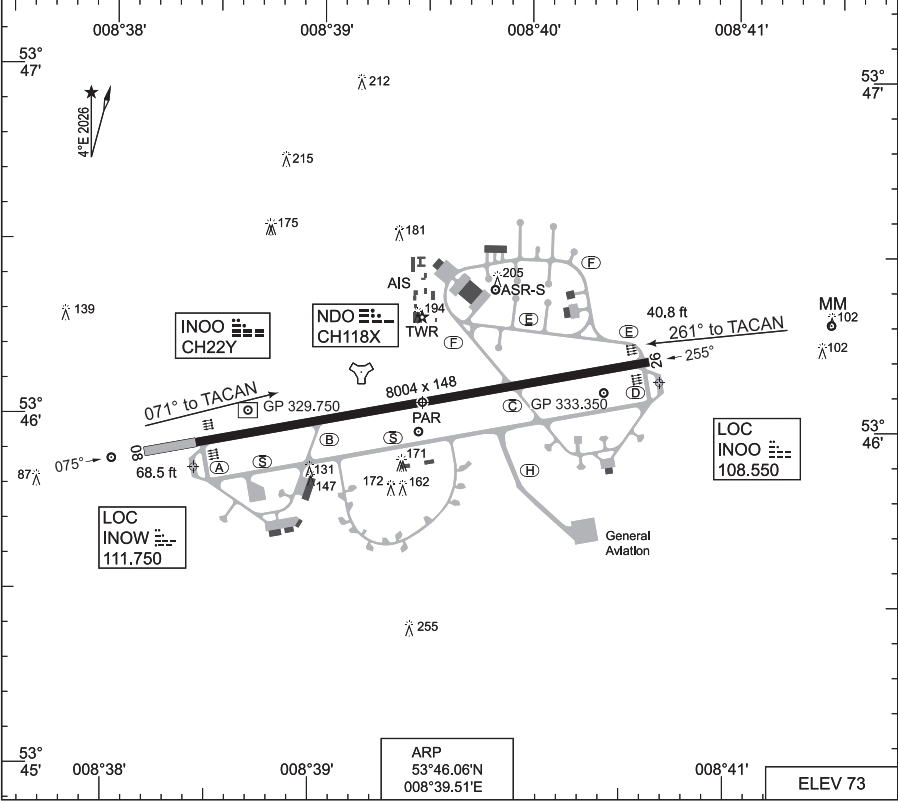
TACAN RWY 26

SID MN 108-126



AERODROME CHART

NORDHOLZ (ETMN)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
08	86 F/A/W/T	8004	8004	8004	8004	3.0°	73	53°45.93'N 008°38.42'E
26	86 F/A/W/T	8004	8906	8906	8004	3.0°	64	53°46.19'N 008°40.60'E

NORDHOLZ TOWER	315.700	142.900	131.255					
NORDHOLZ RADAR	267.000	129.855	342.625	341.475	SSR 4240 - 4247			

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	TERPS	08	3.0°	43		751	ABCDE	TERPS	274 - 0.8 200 (200-0.8/1.2)
	TERPS	26	3.0°	68		1085	ABCDE	TERPS	267 - 0.8 200 (200-0.8/1.2)
	TERPS	079	3.0°				COPTER	TERPS	174 - 0.4 100 (100-0.4/0.8)

AERODROME CHART

NORDHOLZ (ETMN)



PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 73

MN 108 - 126
NORDHOLZ (ETMN)

NORDHOLZ TOWER
315.700 131.255

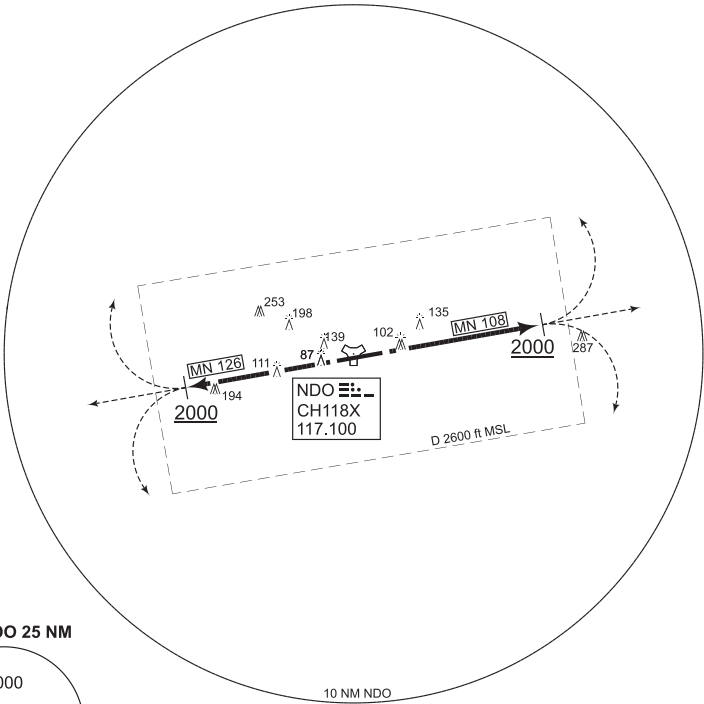
NORDHOLZ RADAR
342.625 129.855

BREMEN RADAR
299.100 124.075

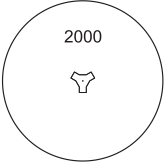
NOTE:
a) NO TURN BEFORE DER.



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA NDO 25 NM



EMERG SAFE ALT 100 NM 2700

TA 5000

MN 108 (RWY 08)	- Climb on track 075° to 2000 ft - Continue as cleared by ATC
MN 126 (RWY 26)	- Climb on track 255° to 2000 ft - Continue as cleared by ATC

MN 108 - 126

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)



PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 73

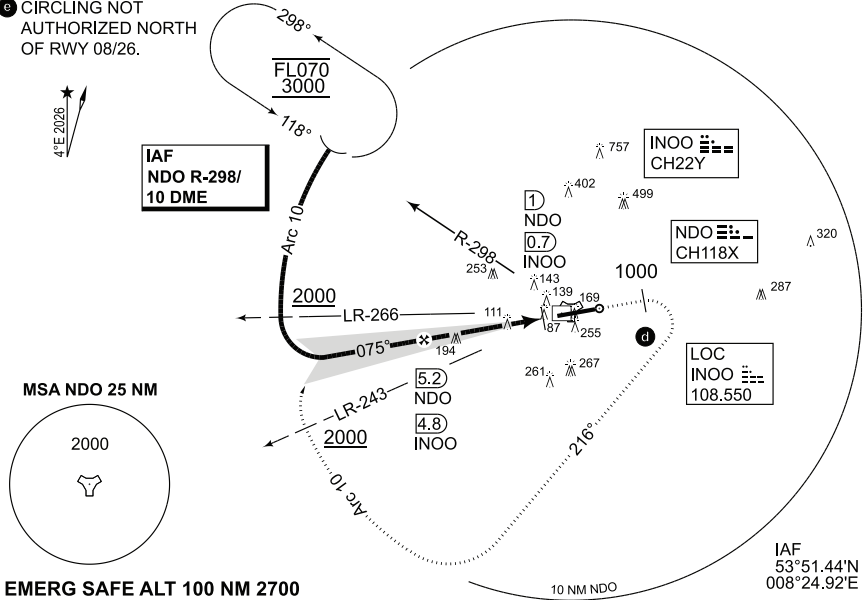
ILS or LOC RWY 08
NORDHOLZ (ETMN)

BREMEN RADAR 299.100 124.075		NORDHOLZ RADAR 342.625 129.855		NORDHOLZ TOWER 315.700 131.255 122.100	
TACAN / LOCALIZER CH 118X / INOO 108.55	APP COURSE 075°	GS INTCP ALT 1600	DESCENT GR 3.0° / 5.2%	DA See CAT	THR ELEV 69
				ALS-LENGTH 900 M	LDA 8004

NOTE:

- a) NO TURN BEFORE MAPT.
- b) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- c) TACAN REQUIRED.
- d) MISSED APPROACH LIMITED TO 230 KIAS MAX.
- e) CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

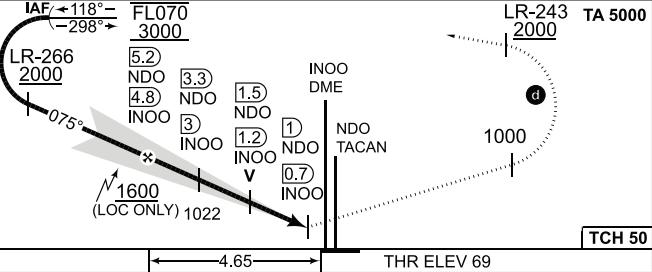


MISSED APPROACH

Climb on RWY track to 2000 ft MSL. When passing 1000 ft MSL turn right heading 216° and intercept Arc 10 DME NDO TACAN and return to final.

DIST INOO	4	3	2	1
DIST NDO	4.3	3.3	2.3	1.3
Altitude	1340	1020	700	380

CAT I		■
-------	--	---



CATEGORY	A	B	C	D
ILS 08	269 - 0.8 550 200 (200-0.8/1.2)			
LOC 08	440 - 1.0 371 (400-1.0/1.5)		440 - 1.0 371 (400-1.0/1.7)	
CIRCLING	560 - 2.3 487 (500-2.3)	570 - 2.3 497 (500-2.3)	780 - 3.3 707 (800-3.3)	930 - 4.0 857 (900-4.0)

ILS or LOC RWY 08

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

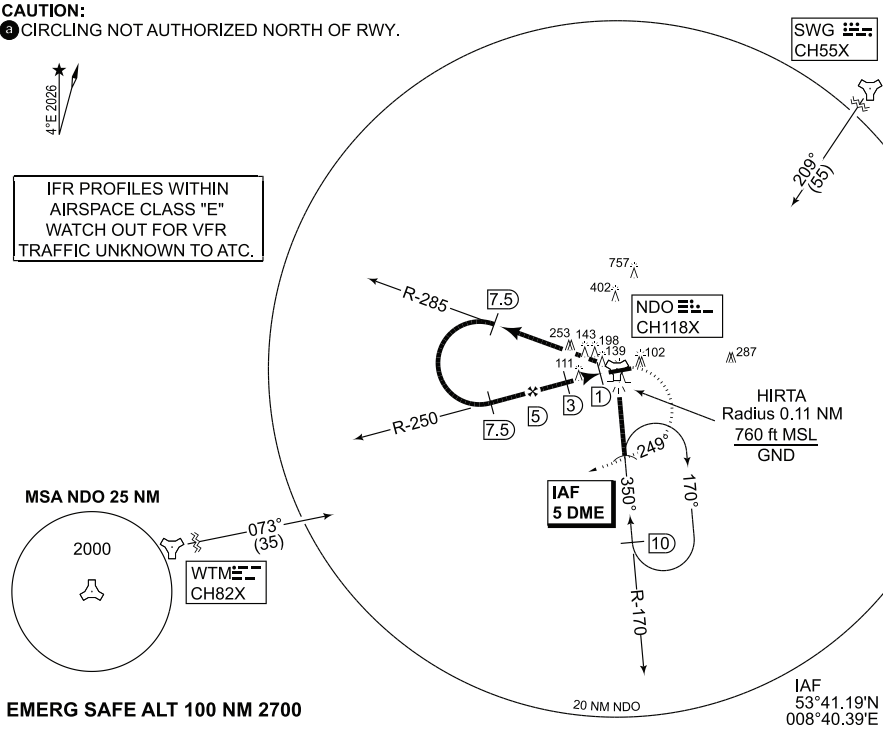


TERPS
INSTRUMENT APPROACH CHART

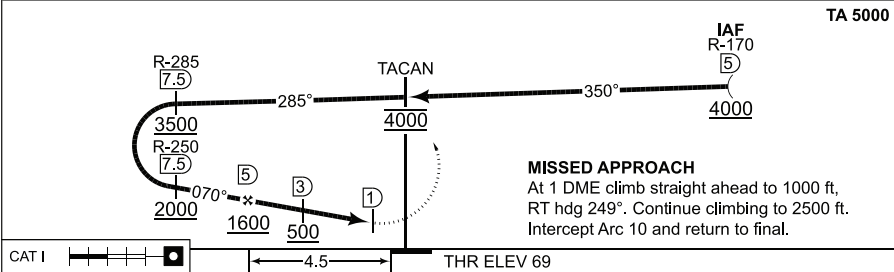
AD ELEV 73

TACAN RWY 08
NORDHOLZ (ETMN)

BREMEN RADAR 299.100 124.075		NORDHOLZ RADAR 342.625 129.855		NORDHOLZ TOWER 315.700 131.255		
TACAN NDO CH118X	APP COURSE 070°	FAF ALT 1600	MDA 450	THR ELEV 69	ALS-LENGTH 900 M	LDA 8004



EMERG SAFE ALT 100 NM 2700



CATEGORY	A	B	C	D	E
S-TACAN 08	450 - 1.1 381 (400-1.1/1.5)		450 - 1.1 381 (400-1.1/1.8)		
CIRCLING	560 - 2.3 487 (500-2.3)	570 - 2.3 497 (500-2.3)	780 - 3.3 707 (800-3.3)	930 - 4.0 857 (900-4.0)	1030 - 4.5 957 (1000-4.5)
PAR 08	274 - 0.8 200 (200-0.8/1.2) GS 3.0°				

TACAN RWY 08

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)



PANS-OPS
INSTRUMENT APPROACH CHART

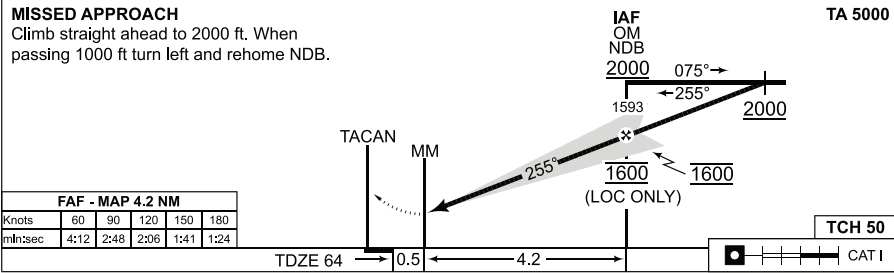
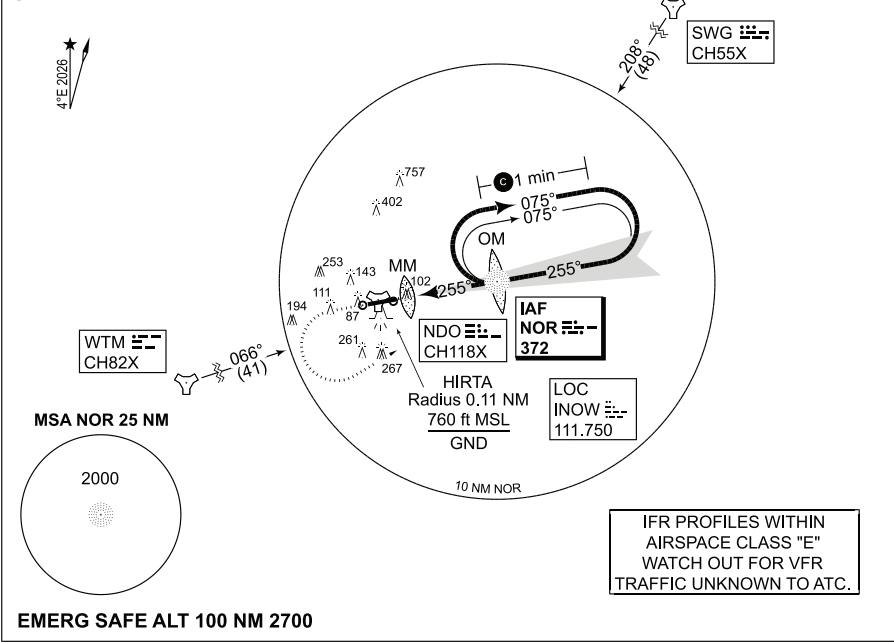
AD ELEV 73

ILS or LOC RWY 26
NORDHOLZ (ETMN)

BREMEN RADAR 299.100 124.075		NORDHOLZ RADAR 342.625 129.855		NORDHOLZ TOWER 315.700 131.255			
TACAN / LOCALIZER CH 118X / INOW 111.750	APP COURSE 255°	GS INTCP ALT 1600	GS 3.0° (5.2%)	DA See CAT	TDZE 64	ALS-LENGTH 900 M	LDA 8004

NOTE:
a) PROCEDURE LIMITED TO 230 KIAS.
b) CIRCLING NOT AUTHORIZED NORTH OF RWY.
c) RACETRACK PROCEDURE TURN 1 MIN.

IAF
53°47.11'N
008°48.37'E



CATEGORY	A	B	C	D
S-ILS 26	264 - 0.8/550 200 (200-0.8/1.2)			
S-LOC 26	480 - 1.2 416 (500-1.2/1.5)		480 - 1.2 416 (500-1.2/1.9)	
b CIRCLING	560 - 2.3 487 (500-2.3)	570 - 2.3 497 (500-2.3)	780 - 3.3 707 (800-3.3)	930 - 4.0 857 (900-4.0)

ILS or LOC RWY 26

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

CHANGE: WTM (103/26)

AOC 11 JUN 2026



TERPS
INSTRUMENT APPROACH CHART

AD ELEV 73

TACAN RWY 26
NORDHOLZ (ETMN)

BREMEN RADAR 299.100 124.075		NORDHOLZ RADAR 342.625 129.855		NORDHOLZ TOWER 315.700 131.255		
TACAN NDO CH118X	APP COURSE 260°	FAF ALT 1600	MDA 450	THR ELEV 41	ALS-LENGTH 900 M	LDA 8004

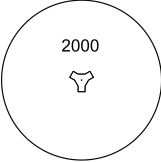
CAUTION:
CIRCLING NOT AUTHORIZED NORTH OF RWY.

SWG
CH55X



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA NDO 25 NM



WTM
CH82X

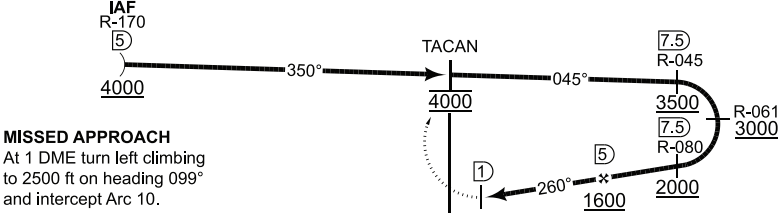
HIRTA
Radius 0.11 NM
760 ft MSL
GND

IAF
5 DME

EMERG SAFE ALT 100 NM 2700

IAF
53°41.19'N
008°40.39'E

TA 5000



THR ELEV 41

4.2

CAT I

CATEGORY	A	B	C	D	E
S-TACAN 26	450 - 1.2 409 (500-1.2/1.5)		450 - 1.2 409 (500-1.2/1.9)		
CIRCLING	560 - 2.3 487 (500-2.3)	570 - 2.3 497 (500-2.3)	780 - 3.3 707 (800-3.3)	930 - 4.0 857 (900-4.0)	1030 - 4.5 957 (1000-4.5)
PAR 26	267 - 0.8 200 (200-0.8/1.2) GS 3.0°				

TACAN RWY 26

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)



CHANGE: WTM (103/26)

AOC 11 JUN 2026

LAAGE (ETNL)

AERODROME CHART

ILS or LOC Y RWY 09

ILS or LOC Y RWY 27

ILS or LOC Z RWY 09

ILS or LOC Z RWY 27

TACAN RWY 09

TACAN RWY 27

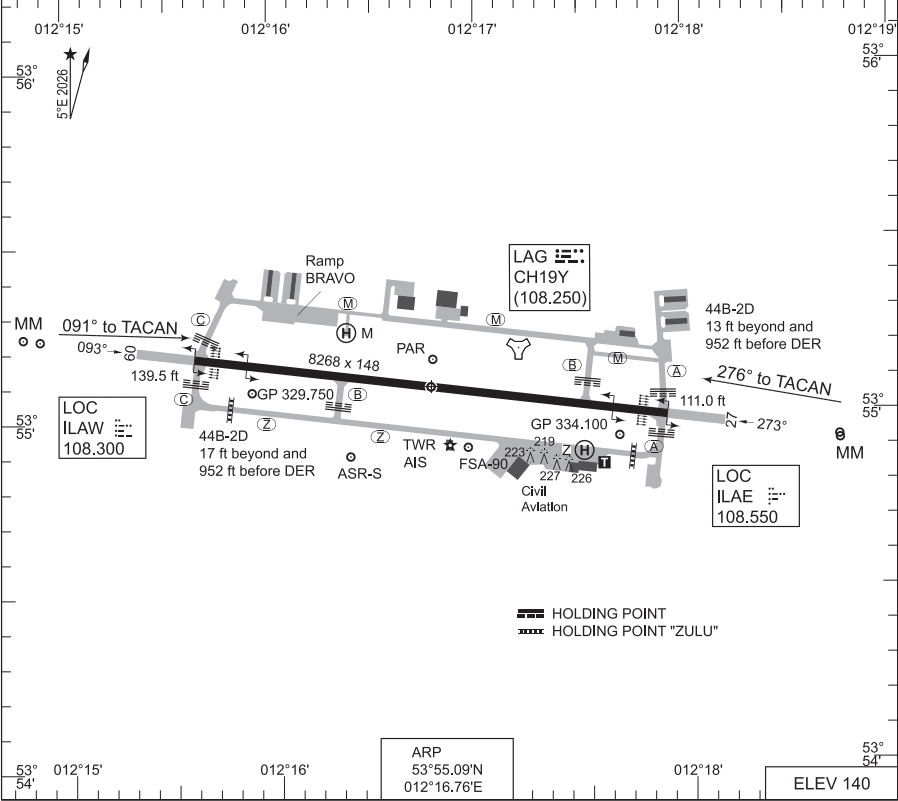
ETNL 1E - 1S

ETNL 1N



AERODROME CHART

LAAGE (ETNL)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
09	88 R/B/W/T	8268 (8924*)	9266	10283 (10938*)	8268	3.0°	140	53°55.18'N 012°15.62'E
27	88 R/B/W/T	8268 (8924*)	9269	9909 (10564*)	8268	3.0°	134	53°54.99'N 012°17.90'E

*SWY available for TKOF on request via backtrack (PCN 66)

LAAGE TOWER	336.400	118.430
LAAGE RADAR	376.400	133.105 SSR 4210 - 4217
LAAGE ATIS	134.605	

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	09	3.0°	23		459	ABCDE	TERPS	340 - 0.8/550 200 (200-0.8/1.2)
	PANS-OPS	27	3.0°	27		460	ABCDE	TERPS	319 - 0.8/550 208 (300-0.8/1.2)

AERODROME CHART

LAAGE (ETNL)



PANS-OPS
INSTRUMENT DEPARTURE CHART

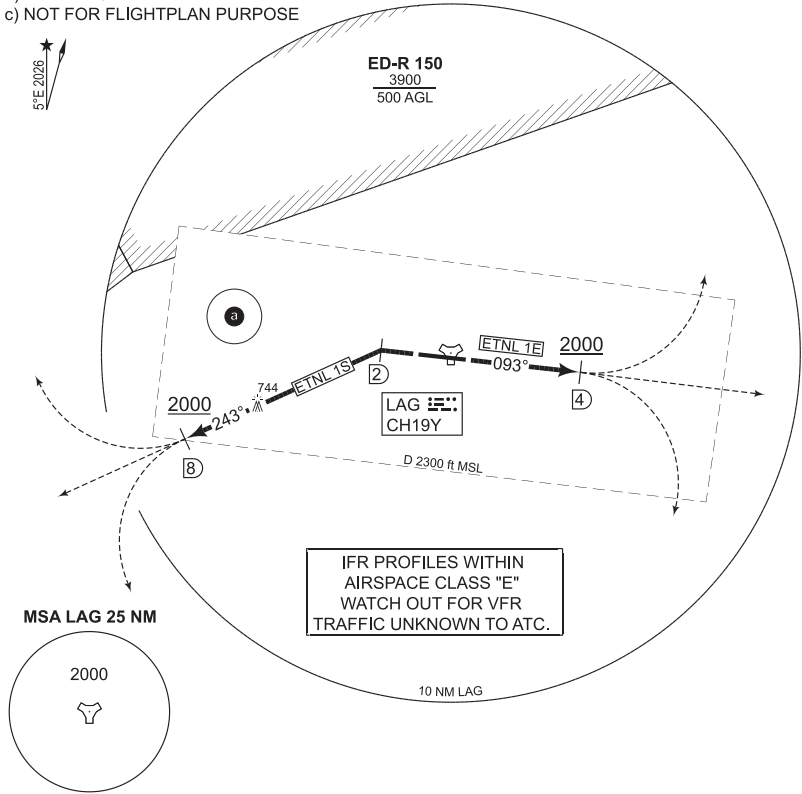
AD ELEV 140

ETNL 1E - 1S
LAAGE (ETNL)

LAAGE TOWER 336.400 118.430		LAAGE RADAR 376.400 133.105		BREMEN RADAR 259.825 124.175				LAAGE ATIS 134.605		
		RWY	from - to	60	120	180	240	300	360	Reason
		09	DER - 2000	582	1164	1746	2328	2910	3492	ATC
		27	DER - 2000	469	938	1407	1876	2345	2814	ATC

CAUTION:
CLOSE IN OBSTACLES:
RWY 27: TREES 450M WEST OF DER 211 FT.

- NOTE:
- a) NOISE ABATEMENT AREA AROUND CITY OF SCHWAAN.
 - b) DME REQUIRED.
 - c) NOT FOR FLIGHTPLAN PURPOSE



EMERG SAFE ALT 100 NM 2500

TA 5000

ETNL 1E (RWY 09)	- Climb straight ahead - Pass LAG/4 DME at 2000 ft or above - Continue as cleared by ATC - INITIAL CLIMB: 4000 ft
ETNL 1S (RWY 27)	- Climb straight ahead - When passing LAG/2 DME turn left and proceed on track 243° - At LAG/8 DME continue as cleared by ATC - INITIAL CLIMB: 4000 ft

ETNL 1E - 1S

53°55.09'N
012°16.76'E
26-2

LAAGE (ETNL)



PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 140

ETNL 1N
LAAGE (ETNL)

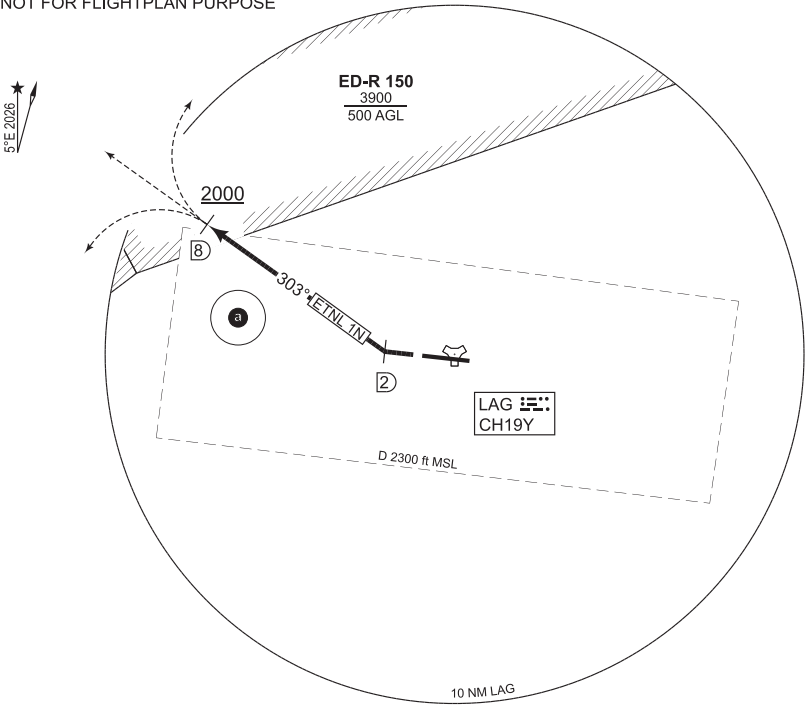
LAAGE TOWER		LAAGE RADAR		BREMEN RADAR				LAAGE ATIS		
336.400	118.430	376.400	133.105	259.825	124.175	240	300	360	134.605	
RWY	from-to	60	120	180	240	300	360	Reason		
27	DER - 2000	469	938	1407	1876	2345	2814	ATC		

CAUTION:
CLOSE IN OBSTACLES

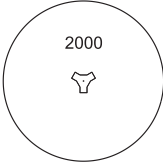
RWY 27: TREES 450M WEST OF DER 211 FT.

NOTE:

- a) NOISE ABATEMENT AREA AROUND CITY OF SCHWAAN.
- b) DME REQUIRED.
- c) NOT FOR FLIGHTPLAN PURPOSE



MSA LAG 25 NM



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 2500

TA 5000

ETNL 1N
(RWY 27)

- Climb straight ahead
- When passing LAG/2 DME turn right and proceed on track 303°
- At LAG/8 DME, continue as cleared by ATC
- INITIAL CLIMB: 4000 ft

ETNL 1N

53°55.09'N
012°16.76'E
26-3

LAAGE (ETNL)



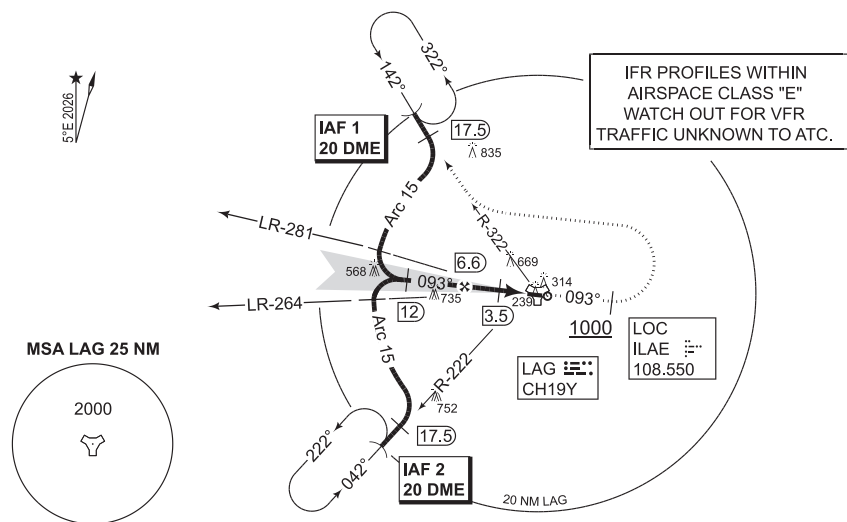
ILS or LOC Y RWY 09
LAAGE (ETNL)

BREMEN RADAR		LAAGE RADAR		LAAGE TOWER		LAAGE ATIS	
259.825 124.175		376.400 133.105		336.400 118.430		134.605	
TACAN/LOCALIZER LAG CH19Y/LAEG 108.550		APP COURSE 093°	GS INTCP ALT 2000	GS 3.0°	DA 340	THR ELEV 140	ALS-LENGTH 900 m
							LDA 8268

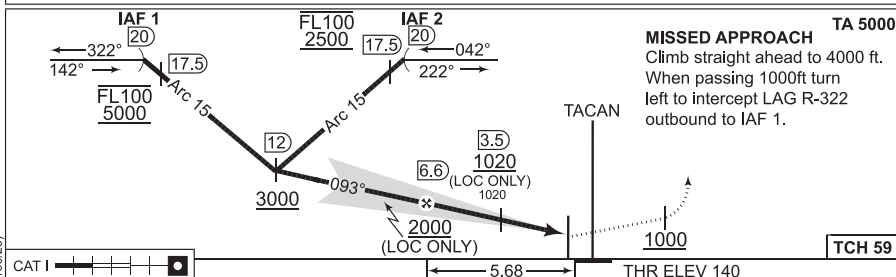
- a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- b) FOR MILITARY USE ONLY.
- c) TACAN REQUIRED.
- e) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
- f) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- g) HPM

IAF 1
54°11.91'N
011°58.64'E

IAF 2
53°41.53'N
011°52.58'E



EMERG SAFE ALT 100 NM 2500



CATEGORY		A	B	C	D	E
MPSP	ILS Y 09	340 - 0.8/550 200 (200-0.8/1.2)				NOT AUTHORIZED
	LOC Y 09	490 - 0.9 350 (400-0.9/1.5)		490 - 0.9 350 (400-0.9/1.6)		NOT AUTHORIZED
	 CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 (1000-4.3)

ILS or LOC Y RWY 09

53°55.09'N
012°16.76'E

LAAGE (ETNL)



PANS-OPS

AD ELEV 140

ILS or LOC Z RWY 09

BREMEN RADAR		LAAGE RADAR		LAAGE TOWER		LAAGE ATIS	
259.825	124.175	376.400	133.105	336.400	118.430		134.605
TACAN/LOCALIZER		APP COURSE	GS INTCP ALT	GS	DA	TDZE	ALS-LENGTH
LAG CH19Y/ILAE 108.550		093°	2000	3.0°	See CAT	140	900 M
							8268

a) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.

c) RNAV REQUIRED

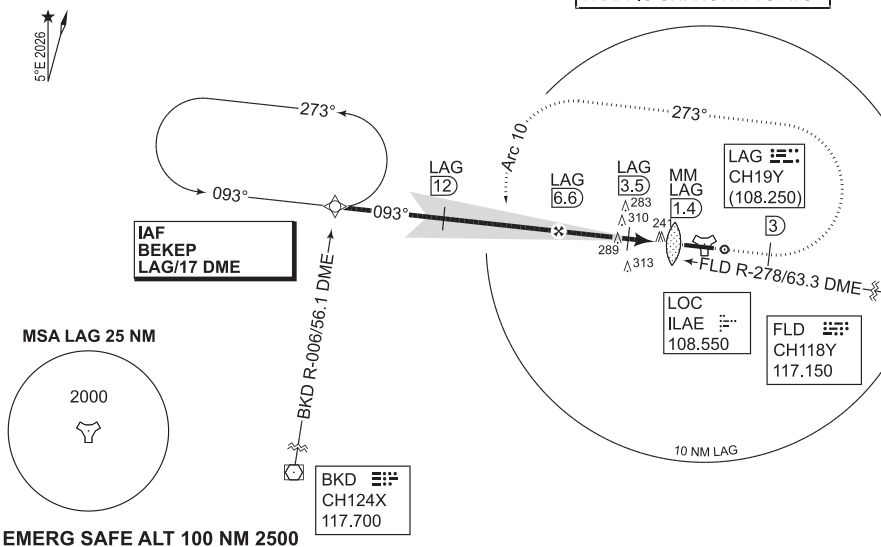
(d) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.

100

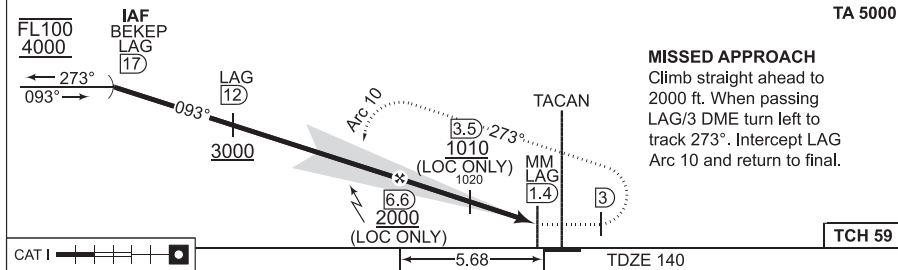
53°57.16'N

011°48.38'E

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



TA 5000



CATEGORY		A	B	C	D	E
MIPS	ILS Z 09	340 - 0.8 200 (200-0.8/1.6)				NOT AUTHORIZED
	LOC Z 09	490 - 0.8 350 (400-0.8/1.6)		490 - 1.2 350 (400-1.2/1.6)	490 - 1.2 350 (400-1.2/2.0)	NOT AUTHORIZED
	d CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 e (1000-4.3)

ILS or LOC Z RWY 09

53°55.09'N
012°16.76'E

LAAGE (ETNL)



26-5



CHANGE: VAR (042/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 140

TACAN RWY 09
LAAGE (ETNL)

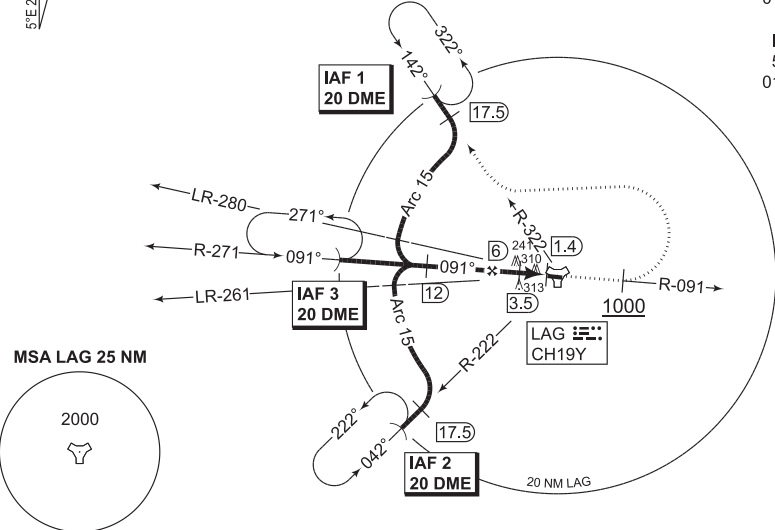
BREMEN RADAR 259.825 124.175		LAAGE RADAR 376.400 133.105		LAAGE TOWER 336.400 118.430		LAAGE ATIS 134.605	
TACAN LAG CH19Y	APP COURSE 091°	FAF ALT 1800	DESCENT GR 5.2%	MDA 490	THR ELEV 140	ALS-LENGTH 900 m	LDA 8268

NOTE:

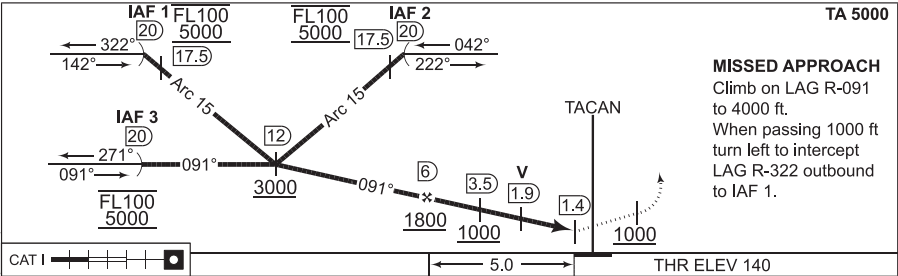
- a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- c) HPMA

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

- IAF 1
54°11.91'N
011°58.64'E
- IAF 2
53°41.53'N
011°52.58'E
- IAF 3
53°57.03'N
011°43.49'E



EMERG SAFE ALT 100 NM 2500



CATEGORY	A	B	C	D	E
TACAN 09	490 - 0.9 350 (400-0.9/1.5)		490 - 0.9 350 (400 - 0.9/1.6)		NOT AUTHORIZED
b CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 (1000-4.3)
PAR 09	340 - 0.8/550 200 (200-0.8/1.2)				

TACAN RWY 09

53°55.09'N
012°16.76'E
26-6

LAAGE (ETNL)



CHANGE: REVISED CHART (150/26)

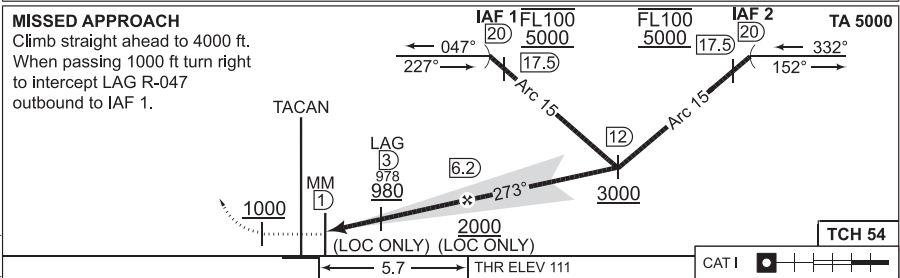
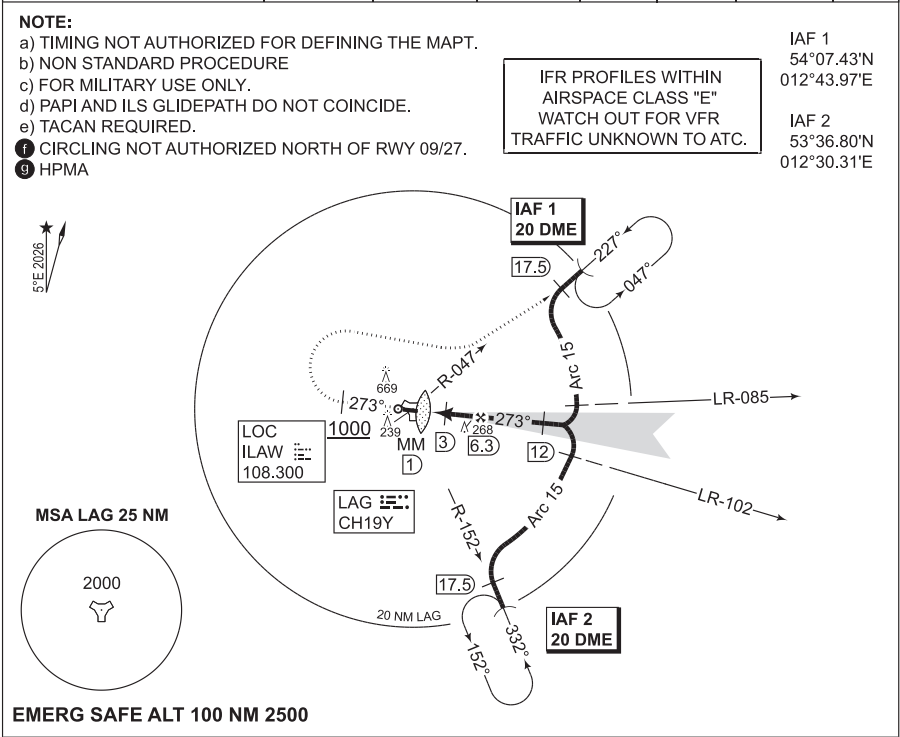
ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 140

ILS or LOC Y RWY 27
LAAGE (ETNL)

BREMEN RADAR 259.825 124.175		LAAGE RADAR 376.400 133.105		LAAGE TOWER 336.400 118.430		LAAGE ATIS 134.605		
TACAN/LOCALIZER LAG CH19Y/ILAW 108.300		APP COURSE 273°	GS INTCP ALT 2000	GS 3.0° / 5.2%	DA 335	THR ELEV 111	ALS-LENGTH 900 m	LDA 8268



CATEGORY	A	B	C	D	E
ILS Y 27	311 - 0.8 200 (200-0.8/1.6)				NOT AUTHORIZED
LOC Y 27	480 - 1.0 369 (400-1.0/1.5)		480 - 1.0 369 (400-1.0/1.7)		NOT AUTHORIZED
f CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 g (1000-4.3)

ILS or LOC Y RWY 27

53°55.09'N
012°16.76'E
26-7

LAAGE (ETNL)



PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 140

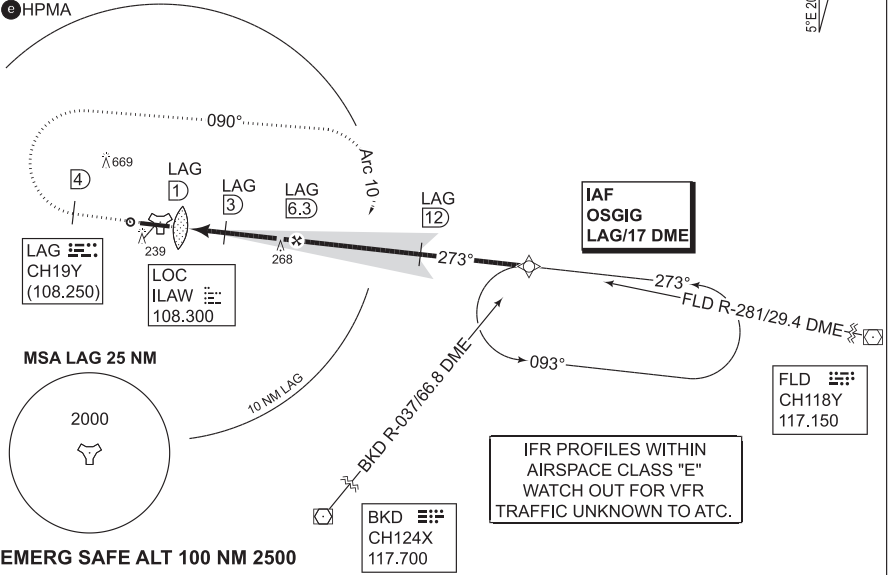
ILS or LOC Z RWY 27
LAAGE (ETNL)

BREMEN RADAR 259.825 124.175	LAAGE RADAR 376.400 133.105	LAAGE TOWER 336.400 118.430	LAAGE ATIS 134.605
TACAN/LOCALIZER LAG CH19Y/ILAW 108.300	APP COURSE 273°	GS INTCP ALT 2000	GS 3.0° / 5.2%
		DA See CAT	TDZE 135
			ALS-LENGTH 900 M
			LDA 8268

NOTE:

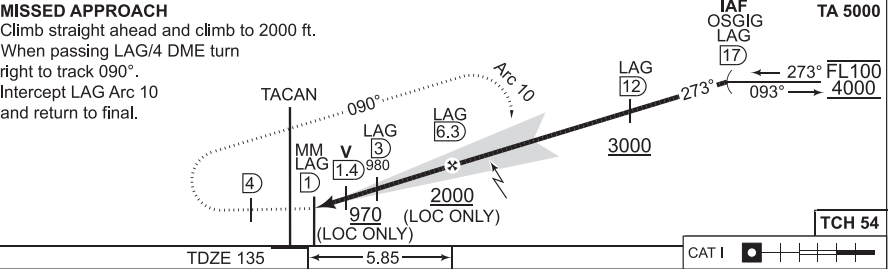
- a) PAPI AND ILS GLIDEPATH DO NOT COINCIDE
- b) DME REQUIRED.
- c) RNAV REQUIRED FOR HOLDING, IN CASE OF LOST COM FOR NON-RNAV EQUIPPED ACFT DISREGARD ETA AND START APPROACH WITHOUT DELAY.
- d) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- e) HPMA

IAF OSGIG
53°52.71'N
012°45.61'E



MISSED APPROACH

Climb straight ahead and climb to 2000 ft.
When passing LAG/4 DME turn
right to track 090°.
Intercept LAG Arc 10
and return to final.



CATEGORY	A	B	C	D	E
ILS Z 27	335 - 0.8 200 (200-0.8/1.6)				NOT AUTHORIZED
LOC Z 27	480 - 0.8 345 (400-0.8/1.6)		480 - 1.2 345 (400-1.2/1.6)	480 - 1.2 345 (400-1.2/2.0)	NOT AUTHORIZED
d CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 (1000-4.3)

ILS or LOC Z RWY 27

53°55.09'N
012°16.76'E

LAAGE (ETNL)



PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 140

TACAN RWY 27
LAAGE (ETNL)

BREMEN RADAR 259.825 124.175		LAAGE RADAR 376.400 133.105		LAAGE TOWER 336.400 118.430		LAAGE ATIS 134.605	
TACAN LAG CH19Y	APP COURSE 276°	FAF ALT 1900	DESCENT GR 5.2%	MDA 470	THR ELEV 111	ALS-LENGTH 900 m	LDA 8268

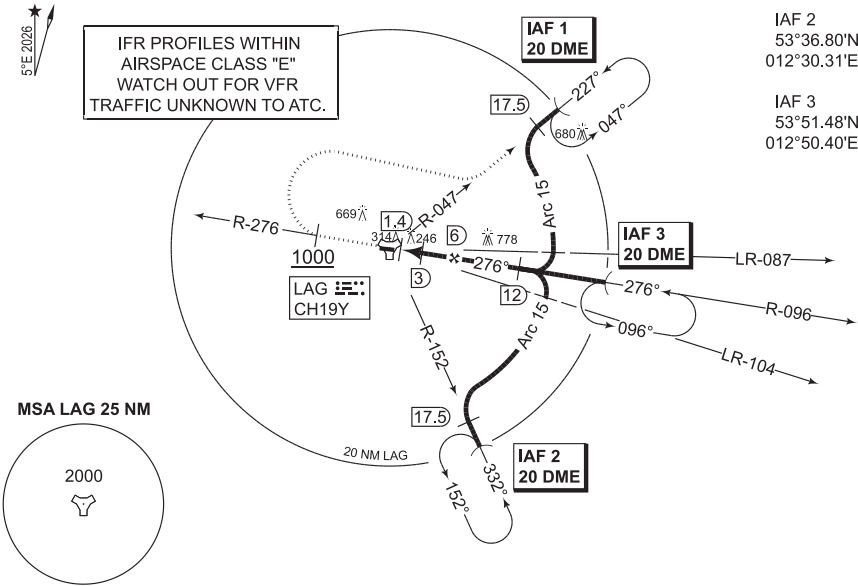
NOTE:

- a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- c) HPMA

IAF 1
54°07.43'N
012°43.97'E

IAF 2
53°36.80'N
012°30.31'E

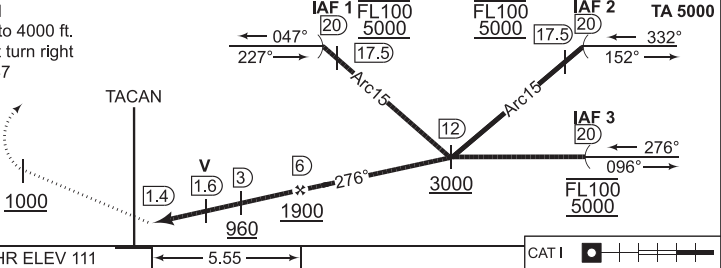
IAF 3
53°51.48'N
012°50.40'E



EMERG SAFE ALT 100 NM 2500

MISSED APPROACH

Climb on LAG R-276 to 4000 ft.
When passing 1000 ft turn right
to intercept LAG R-047
outbound to IAF 1.



THR ELEV 111		5.55		CAT I	
CATEGORY	A	B	C	D	E
TACAN 27	470 - 0.9 359 (400 - 0.9/1.5)		470 - 0.9 359 (400 - 0.9/1.6)		NOT AUTHORIZED
b) CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 (1000-4.3)
PAR 27	319 - 0.8/550 208 (300-0.8/1.2)				

TACAN RWY 27

53°55.09'N
012°16.76'E
26-9

LAAGE (ETNL)



SCHLESWIG (ETNS)

AERODROME CHART

TACAN RWY 04

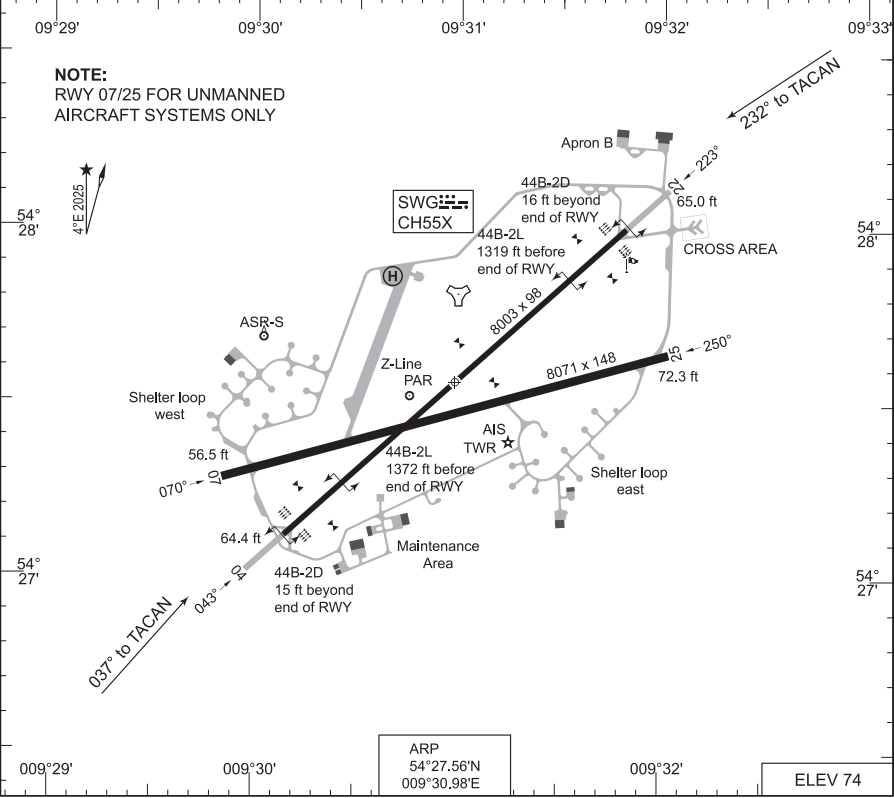
TACAN RWY 22

SID ETNS 1A - 2B



AERODROME CHART

SCHLESWIG (ETNS)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
04	54 F/B/W/T	8003	8003	8003	8003	3.0°		70	54°27.12'N 009°30.15'E
22	54 F/B/W/T	8003	8003	8003	8003	3.0°		69	54°28.00'N 009°31.82'E

SCHLESWIG TOWER	246,500	135,155							
SCHLESWIG RADAR	376,825	399,525	388,525	142,050	SSR 4230 - 4237				

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	04	3.0°	40		750	ABCDE	MIPS	264 - 0.8/550 200 (200-0.8/1.2)
	PANS-OPS	22	3.0°	38		750	ABCDE	MIPS	265 - 0.8/550 200 (200-0.8/1.2)

AERODROME CHART

SCHLESWIG (ETNS)



CHANGE: REVISED CHART (16/1/25)

ACC 25 DEC 2025

PANS-OPS
INSTRUMENT DEPARTURE CHART

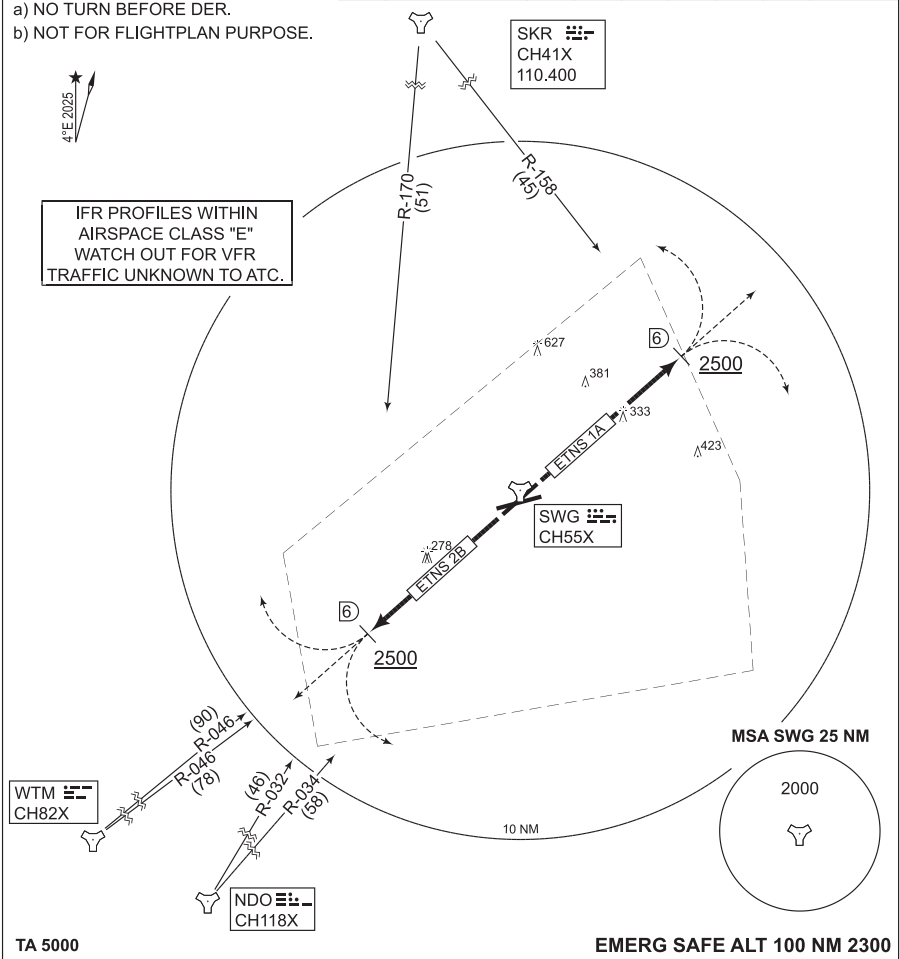
AD ELEV 74

ETNS 1A - 2B
SCHLESWIG (ETNS)

BREMEN RADAR 299.100 124.075		SCHLESWIG RADAR 376.825 142.050		SCHLESWIG TOWER 246.500 135.155			SCHLESWIG RFIS 118.555					
				RWY	from - to	60	120	180	240	300	360	Reason
				04	DER - 3500 ft	437	874	1311	1748	2185	2622	ATC
NOTE:				22	DER - 3500 ft	468	936	1404	1872	2340	2808	ATC

NOTE:

- a) NO TURN BEFORE DER.
b) NOT FOR FLIGHTPLAN PURPOSE.



ETNS 1A (RWY 04)	- Climb straight ahead to 2500 ft - Continue as cleared by ATC - CLIMBOUT RESTRICTION: Reach 2500 ft within 6 DME - INITIAL CLIMB: 4000 ft
ETNS 2B (RWY 22)	- Climb straight ahead to 2500 ft - Continue as cleared by ATC - CLIMBOUT RESTRICTION: Reach 2500 ft within 6 DME - INITIAL CLIMB: 4000 ft

ETNS 1A - 2B

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)



PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 74

TACAN RWY 04
SCHLESWIG (ETNS)

BREMEN RADAR 299.100 124.075	SCHLESWIG RADAR 376.825 142.050	SCHLESWIG TOWER 246.500 135.155	SCHLESWIG RFIS 118.555
TACAN SWG CH55X 111.800	APP COURSE 037°	FAF ALT 2100	DESCENT GR 5.2%
		MDA/DA See CAT	THR ELEV 64
		ALS-LENGTH 900 M	LDA 8003

NOTE:

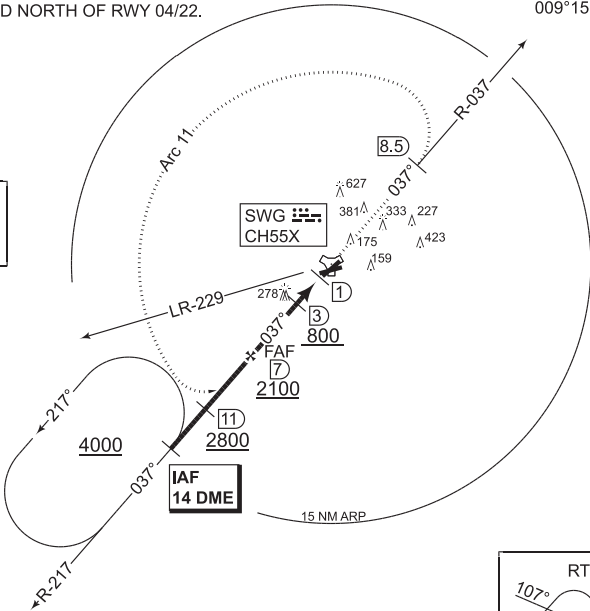
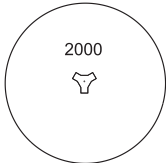
- a) DME REQUIRED.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 04/22.
- c) HPMA

IAF
54°17.28'N
009°15.27'E



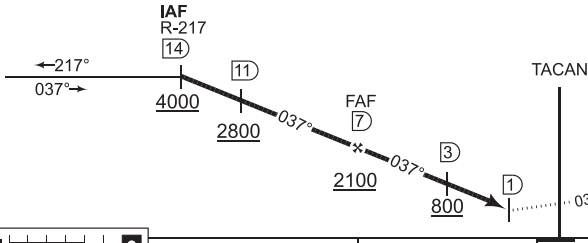
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA SWG 25 NM



EMERG SAFE ALT 100 NM 2300

TA 5000



MISSED APPROACH

Climb on SWG R-037
to 2800 ft.
At SWG DME 8.5 turn
left and join SWG ARC 11.
Return to Final.

CAT I	6.15	THR ELEV 64
-------	------	-------------

CATEGORY	A	B	C	D	E
TACAN 04	420 - 0.9 355 (400-0.9/1.5)		420 - 0.9 355 (400-0.9/1.6)		
PAR 04		264 - 0.8/550 200 (200-0.8/1.2)			
b) CIRCLING	520 - 2.1 446 (500-2.1)	580 - 2.4 506 (600-2.4)	790 - 3.3 716 (800-3.3)	c) 690 - 3.2 616 (700-3.2)	

TACAN RWY 04

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)



PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 74

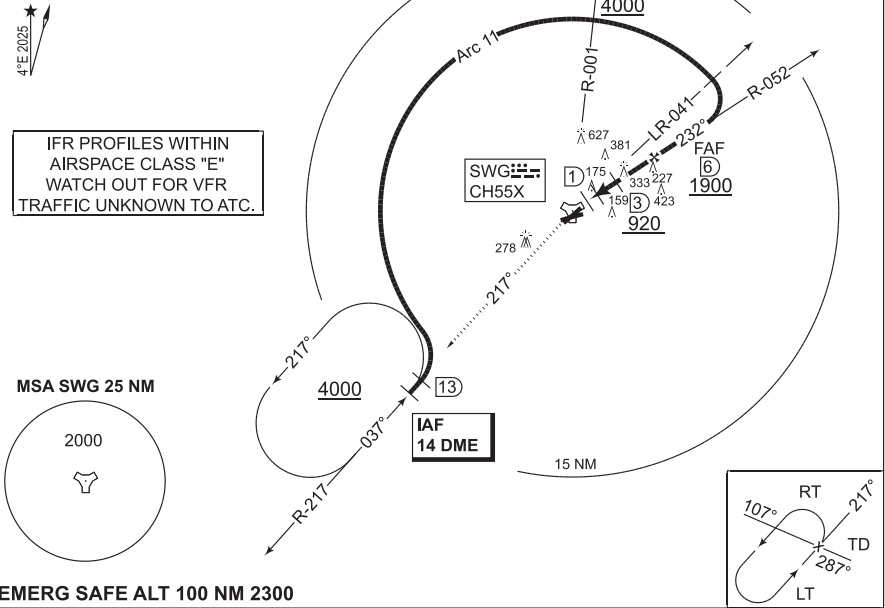
TACAN RWY 22
SCHLESWIG (ETNS)

BREMEN RADAR 299.100 124.075	SCHLESWIG RADAR 376.825 142.050	SCHLESWIG TOWER 246.500 135.155	SCHLESWIG RFIS 118.555
TACAN SWG CH55X 111.800	APP COURSE 232°	FAF ALT 1900	DESCENT GR 5.2%
		MDA/DA See CAT	THR ELEV 65
		ALS-LENGTH 900 M	LDA 8003

NOTE:

- a) DME REQUIRED.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 04/22.
- c) HPMA

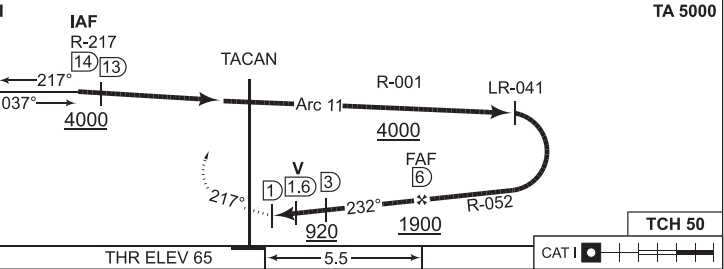
IAF
54°17.28'N
009°15.27'E



EMERG SAFE ALT 100 NM 2300

MISSED APPROACH

Climb to 4000 ft,
intercept SWG R-217
outbound and
enter holding.



TA 5000

TCH 50

THR ELEV 65

5.5

CAT I

CATEGORY	A	B	C	D	E
TACAN 22	470 - 1.2 405 (500-1.2/1.5)		470 - 1.2 405 (500-1.2/1.9)		
PAR 22		265 - 0.8/550 200 (200-0.8/1.2)			
b CIRCLING	520 - 2.1 446 (500-2.1)	580 - 2.4 506 (600-2.4)	790 - 3.3 716 (800-3.3)	c 690 - 3.2 616 (700-3.2)	

TACAN RWY 22

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)



WITTMUNDHAFEN (ETNT)

AERODROME CHART

TACAN RWY 07

ILS or LOC RWY 25

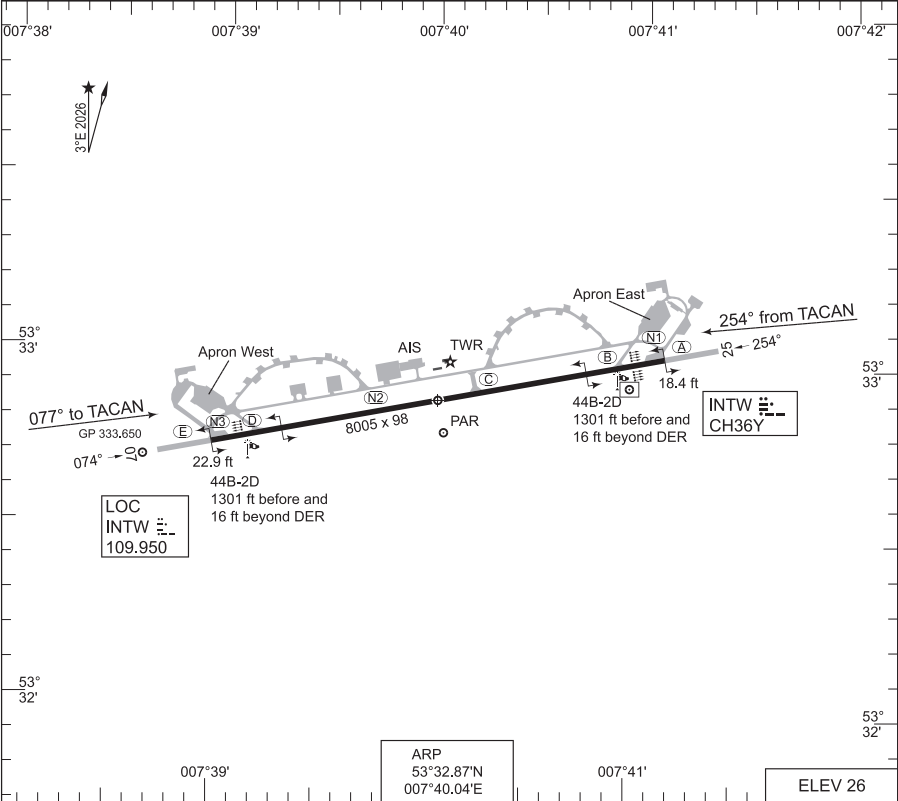
TACAN RWY 25

SID ETNT 1E - 2W



AERODROME CHART

WITTMUNDHAFEN (ETNT)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
07	110 R/A/W/T	8005	8005	8005	8005	3.0°	25	53°32.74'N 007°38.96'E
25	110 R/A/W/T	8005	8005	8005	8005	3.0°	22	53°33.01'N 007°41.12'E

WITTMUND TOWER247.950118.730122.100

WITTMUND RADAR298.250131.015SSR 4210 - 4217

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS PANS-OPS	07 25	3.0° 3.0°	32 32		584 590	ABCD ABCD	MIPS MIPS	223 - 0.8/550 200 (200-0.8/1.2) 219 - 0.8/550 200 (200-0.8/1.2)

AERODROME CHART

WITTMUNDHAFEN (ETNT)



PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 26

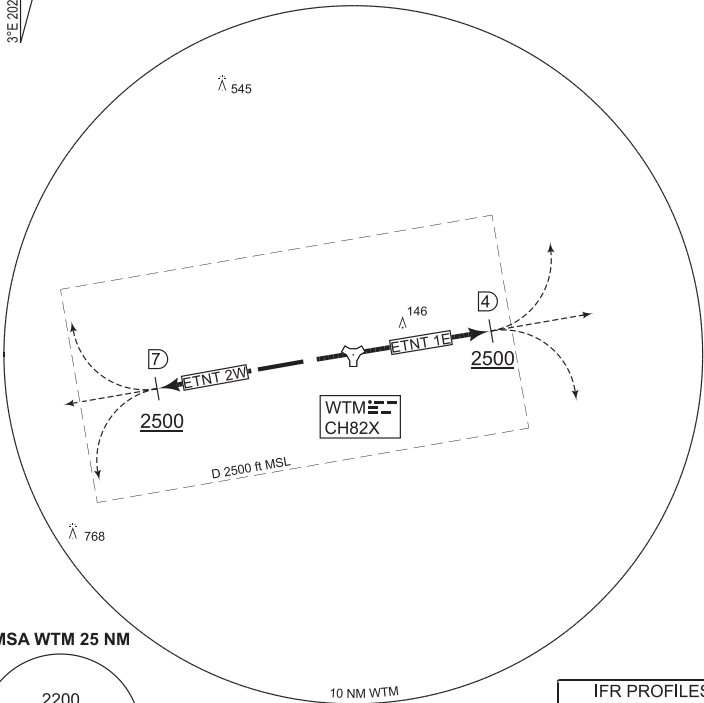
ETNT 1E - 2W
WITTMUNDHAFEN (ETNT)

WITTMUND TOWER 247.950 118.730		WITTMUND RADAR 298.250 131.015				BREMEN RADAR 240.600 124.800			
RWY	from - to	60	120	180	240	300	360	Reason	
07	DER - 2500 ft	454	908	1362	1816	2270	2724	ATC	
25	DER - 2500 ft	580	1160	1740	2320	2900	3480	ATC	

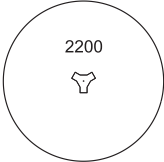
NOTE:

- a) NO TURN BEFORE DER
b) NOT FOR FLIGHTPLAN PURPOSE

NDO CH118X



MSA WTM 25 NM



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 2700

TA 5000

ETNT 1E (RWY 07)	- Climb straight ahead to WTM/4 DME - Continue as cleared by ATC CLIMBOUT RESTRICTION: Reach 2500 ft within 4 DME
ETNT 2W (RWY 25)	- Climb straight ahead to altitude 2500 ft MSL - Continue as cleared by ATC CLIMBOUT RESTRICTION: Reach 2500 ft within 7 DME

ETNT 1E - 2W

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

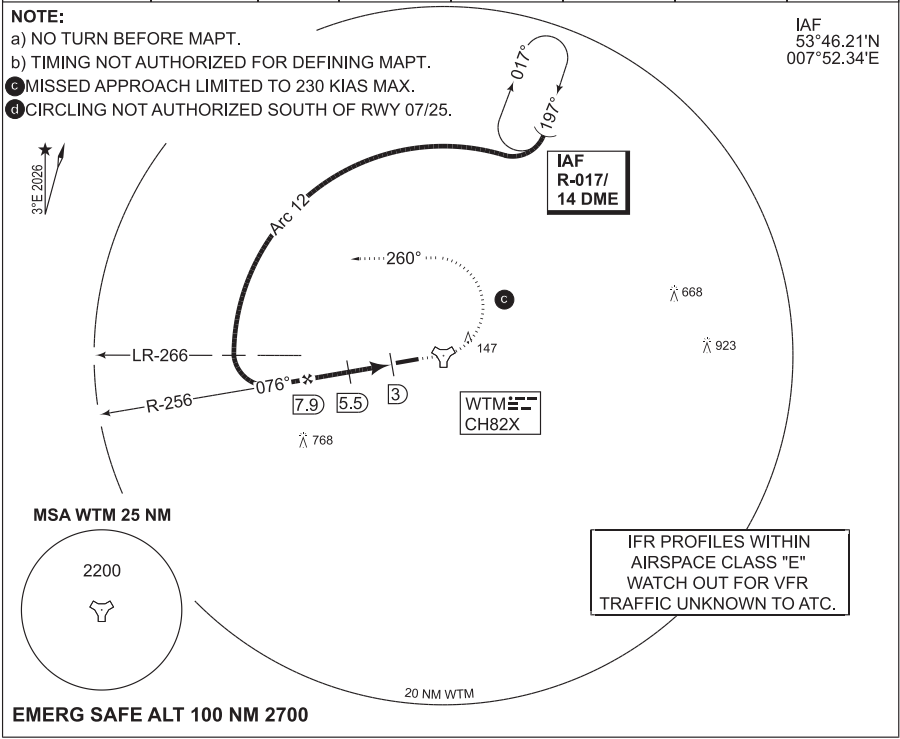


PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 26

TACAN RWY 07
WITTMUNDHAFEN (ETNT)

BREMEN RADAR		WITTMUND RADAR		WITTMUND TOWER		
240.600 124.800		298.250 131.015		247.950	118.730	122.100
TACAN WTM CH82X	APP COURSE 076°	FAF ALT 1700	DESCENT GR 5.2%	MDA 410	THR ELEV 23	ALS-LENGTH 900 m
						LDA 8005



PANS-OPS
INSTRUMENT APPROACH CHART

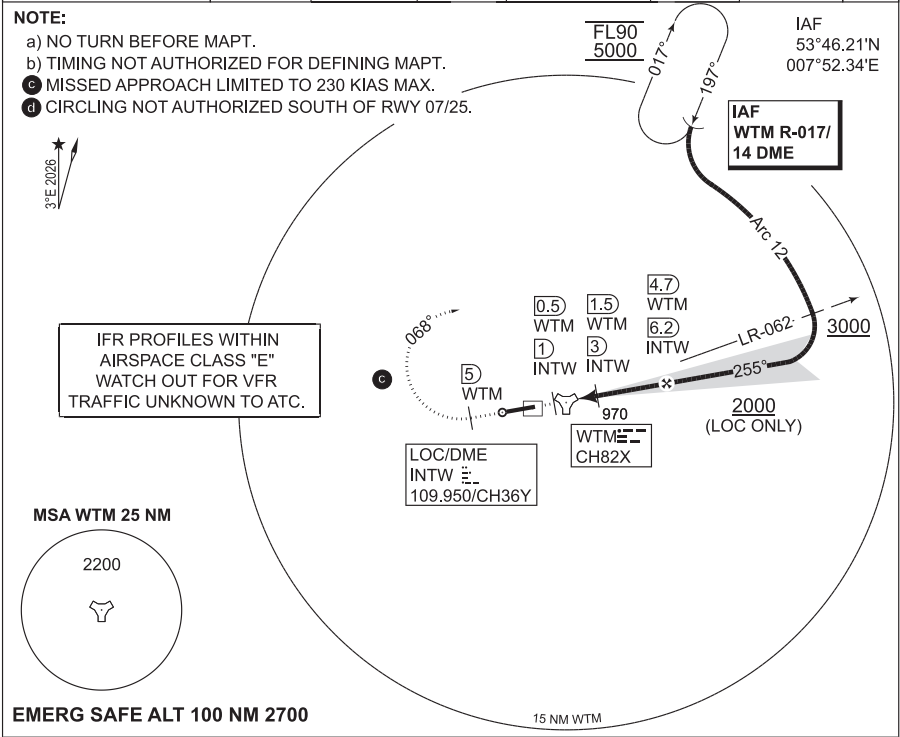
AD ELEV 26

ILS or LOC RWY 25
WITTMUNDHAFEN (ETNT)

BREMEN RADAR 240.600 124.800		WITTMUND RADAR 298.250 131.015		WITTMUND TOWER 247.950 118.730 122.100		
TACAN / LOCALIZER CH 82X / INTW 109.95	APP COURSE 255°	GS INTCP ALT 2000	DA 219	DESCENT GR 3.0° / 5.2%	THR ELEV 18	ALS-LENGTH 900 m
				LDA 8005		

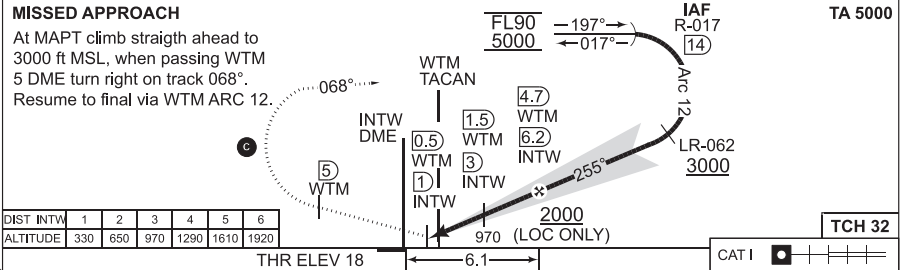
NOTE:

- a) NO TURN BEFORE MAPT.
- b) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- c) MISSED APPROACH LIMITED TO 230 KIAS MAX.
- d) CIRCLING NOT AUTHORIZED SOUTH OF RWY 07/25.



MISSED APPROACH

At MAPT climb straight ahead to 3000 ft MSL, when passing WTM 5 DME turn right on track 068°. Resume to final via WTM ARC 12.



MPS	CATEGORY	A	B	C	D	HPMA
	ILS 25	219 - 0.8 550 200 (200-0.8/1.2)				NOT AUTHORIZED
	LOC 25	490 - 1.5 471 (500-1.5)		490 - 1.5 471 (500-1.5/2.2)		NOT AUTHORIZED
	CIRCLING	490 - 2.2 464 (500-2.2)	560 - 2.4 534 (600-2.4)	1020 - 4.5 994 (1000-4.5)	1060 - 4.9 1034 (1100-4.9)	580 - 3.2 554 (600-3.2)

ILS or LOC RWY 25

53°32.87'N
007°40.04'E
28-4

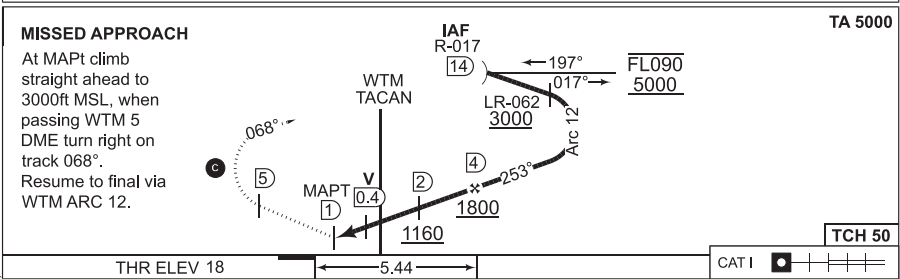
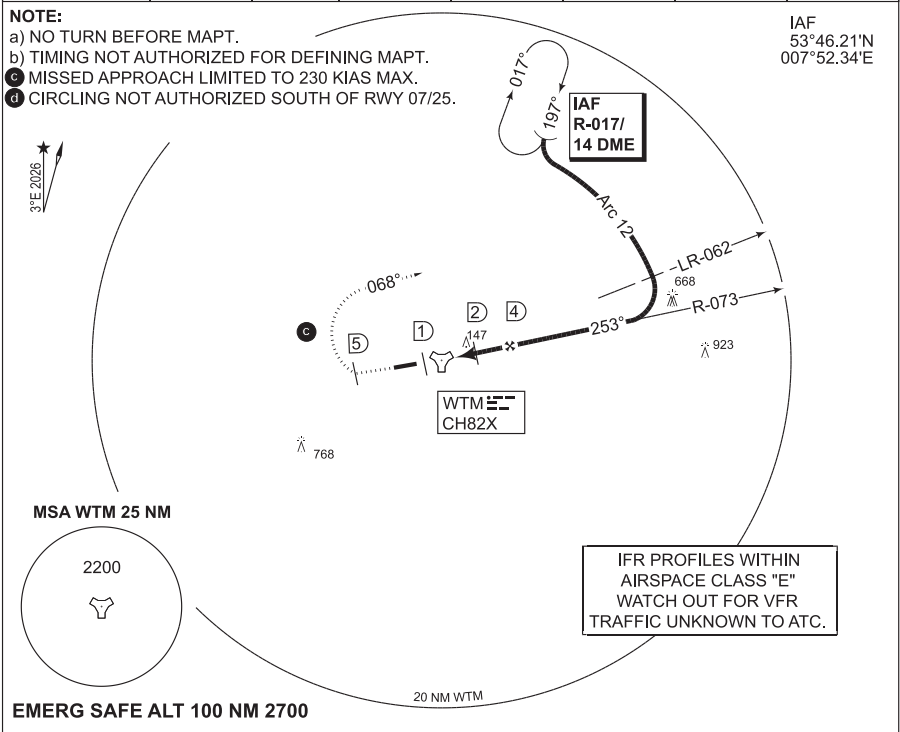
WITTMUNDHAFEN (ETNT)



PANS-OPS
INSTRUMENT APPROACH CHART

TACAN RWY 25
WITTMUNDHAFEN (ETNT)

BREMEN RADAR			WITTMUND RADAR		WITTMUND TOWER		
240.600 124.800			298.250	131.015	247.950	118.730	122.100
TACAN WTM CH82X	APP COURSE 253°	FAF ALT 1800	DESCENT GR 5.2%	MDA 400	THR ELEV 18	ALS-LENGTH 900 m	LDA 8005



CATEGORY	A	B	C	D	HPMA
TACAN 25	400 - 1.1 381 (400-1.1/1.5)		400 - 1.1 381 (400-1.1/1.8)		NOT AUTHORIZED
d CIRCLING	490 - 2.2 464 (500-2.2)	560 - 2.4 534 (600-2.4)	1020 - 4.5 994 (1000-4.5)	1060 - 4.9 1034 (1100-4.9)	580 - 3.2 554 (600-3.2)
PAR 25	219 - 0.8 200 (200-0.8/1.2)				NOT AUTHORIZED

TACAN RWY 25

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)



RONNEBY AB (ESDF)

AERODROME CHART

ILS or LOC RWY 01

ILS or LOC RWY 19

PAR RWY 01

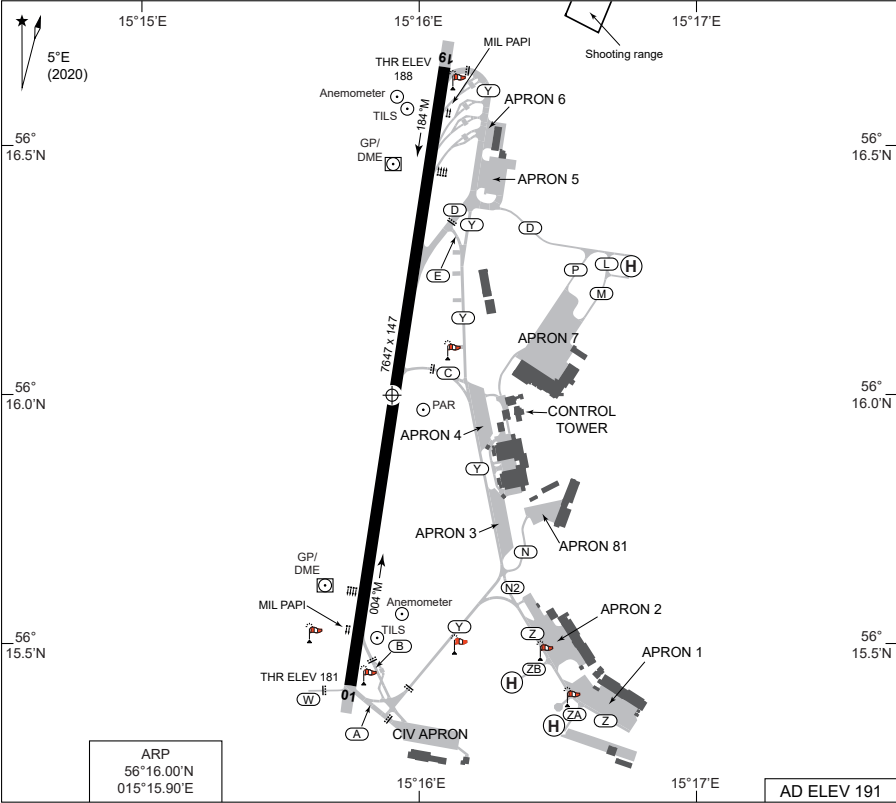
PAR RWY 19

WP LIST



AERODROME CHART

RONNEBY AB (ESDF)



RWY	PCN	TORA	TODA	ASDA	LDA	PAPI	ALS	THR ELEV	THR PSN
01	50	7647	7647	7647	7647	3.00°	CAT I	181	56°15.42'N 015°15.75'E
19	50	7647	7647	7647	7647	3.00°	CAT I	188	56°16.66'N 015°16.09'E

RONNEBY TOWER: 119.205
RONNEBY GROUND: 121.855
ATIS: N/A

MILITARY EQUIPMENT
MIL PAPI RWY 01/19 GP 2.86° (5%).
Arresting nets beyond ends of RWY 01, 19 raised outside ATS ordinary hours.
Marker boards: On both sides of ends and 600m before ends of RWY 01, 19.

OMNIDIRECTIONAL DEPARTURES
RWY 01:
CLIMB STRAIGHT AHEAD TO MNM TURNING ALT 700 FT.
RWY 19:
CLIMB STRAIGHT AHEAD TO MNM TURNING ALT 600 FT.

STANDARD DEPARTURE MIL JET IFR AND VFR
Applicable to take-off / touch and go landing /go.
Note: Follow ATS clearance after standard departure.
Standard departure will not be read out in ATC clearance.

Standard departure RWY 01:
Climb straight ahead with a climb angle of 3° - 5° to Turning Point (TP01). At TP01 turn right to HDG 030° and continue climb with a minimum climb angle of 5°. Continue on HDG 030° to distance 5.4 NM from ARP thereafter follow ATC clearance.
Definition of TP 01: Runway end 0.7 NM from ARP.

Standard departure RWY 19:
Climb straight ahead with a climb angle of 3° - 5° to Turning Point (TP19). At TP19 turn right to HDG 220° and continue climb with a minimum climb angle of 5°. Continue on HDG 220° to distance 5.4 NM from ARP thereafter follow ATC clearance.
Definition of TP 19: Railroad distance 1.0 NM from ARP.

AERODROME CHART

RONNEBY AB (ESDF)



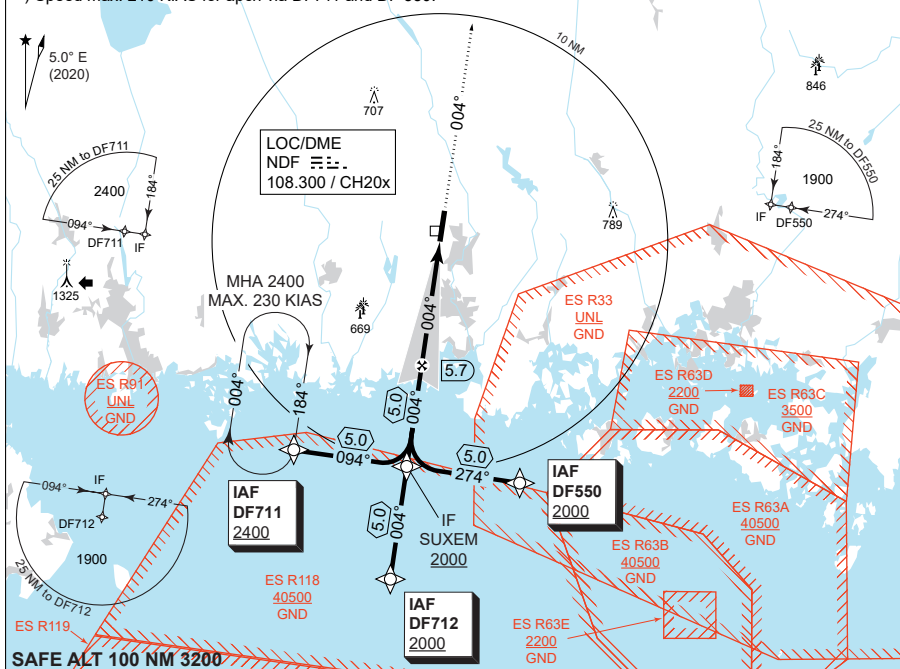
ILS or LOC RWY 01
RONNEBY AB (ESDF)

RONNEBY APPROACH 128.455 129.905		RONNEBY TOWER 119.205				GROUND 121.855	
LOC / DME NDF 108.300 / CH 20x	APP COURSE 004°	GS INTCP T ALT 2000	GS 3.00°	DA 381	THR ELEV 181	ALS 900 M	LDA 7647 FT

NOTE:

- a) RNP 1 required for initial approach and holding.
b) Speed max. 210 KIAS for apch via DF711 and DF 550.

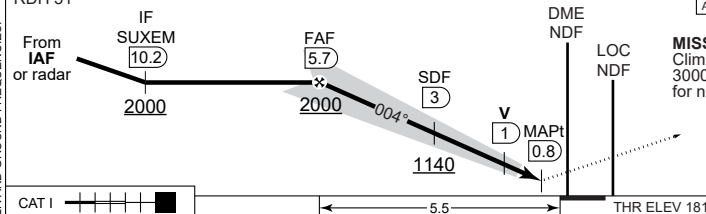
DME REQUIRED



TA 5000
GS 3.00°
RDH 51

CDFA: 3.00° / 5.24%				
DME NDF	5	4	3	2
DIST THR	4.8	3.8	2.8	1.8
ALT	1780	1460	1140	820

MISSED APPROACH:
Climb straight ahead to
3000 FT. Radar vectoring
for new approach.



CATEGORY		D
MIPS	S-ILS 01	381 - 550 200 (200-0.8/1.2)
	S-LOC 01	540 - 900 359 (400-0.9/1.6)
	CIRCLING	1070 - 3.6 879 (900-3.6)

ILS or LOC RWY 01

56°16.00'N
015°15.90'E
29-2

RONNEBY AB (ESDF)

MIPS

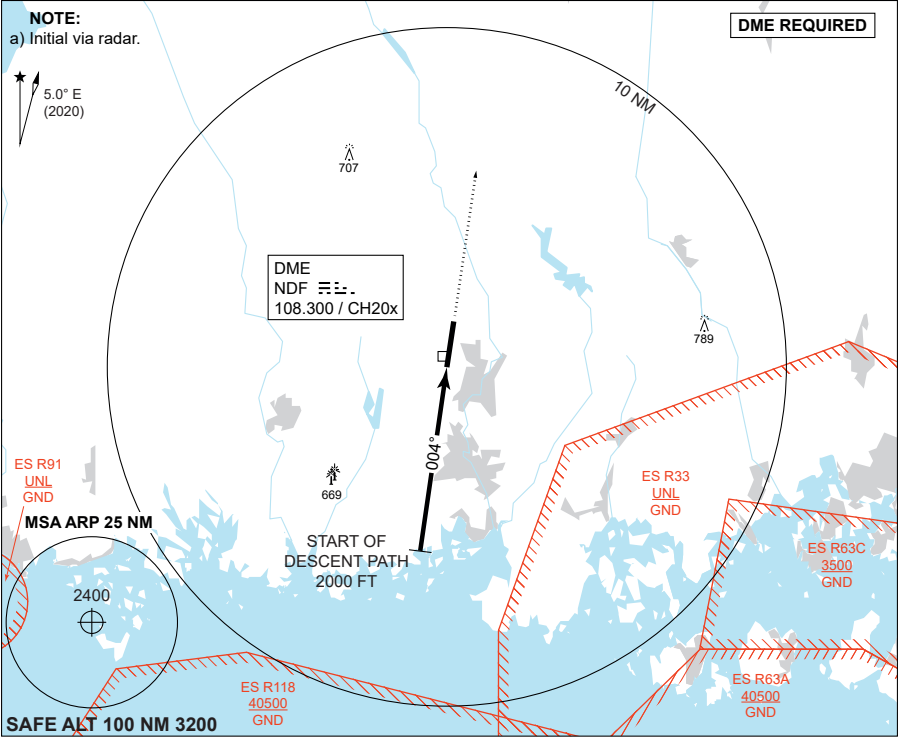
INSTRUMENT APPROACH CHART

AD ELEV 191

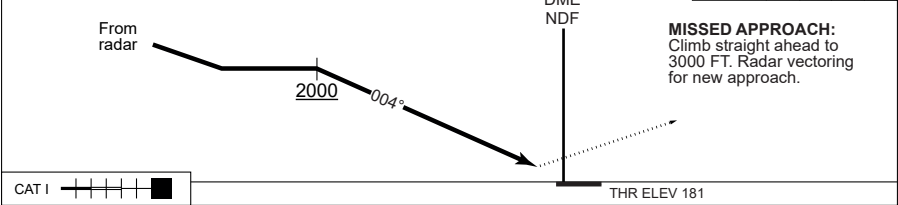
PAR RWY 01

RONNEBY AB (ESDF)

RONNEBY APPROACH 128.455 129.905		RONNEBY PRECISION (PAR) 134.105 118.005		RONNEBY TOWER 119.205		GROUND 121.855	
DME NDF 108.300 / CH 20x	APP COURSE 004°	GS INTCP ALT 2000	PAR GS 3.00°	DA 411	THR ELEV 181	ALS 900 M	LDA 7647 FT



TA 5000 GS 3.00° RDH 53	CDFA: 3.00° / 5.24%				
	DME NDF	5	4	3	2
	DIST THR	4.8	3.8	2.8	1.8
	ALT	1780	1460	1140	820



CATEGORY	D
S-PAR 01	411 - 550 230 (300-0.8/1.2)
CIRCLING	1070 - 3.6 879 (900-3.6)

PAR RWY 01

56°16.00'N
015°15.90'E
29-3

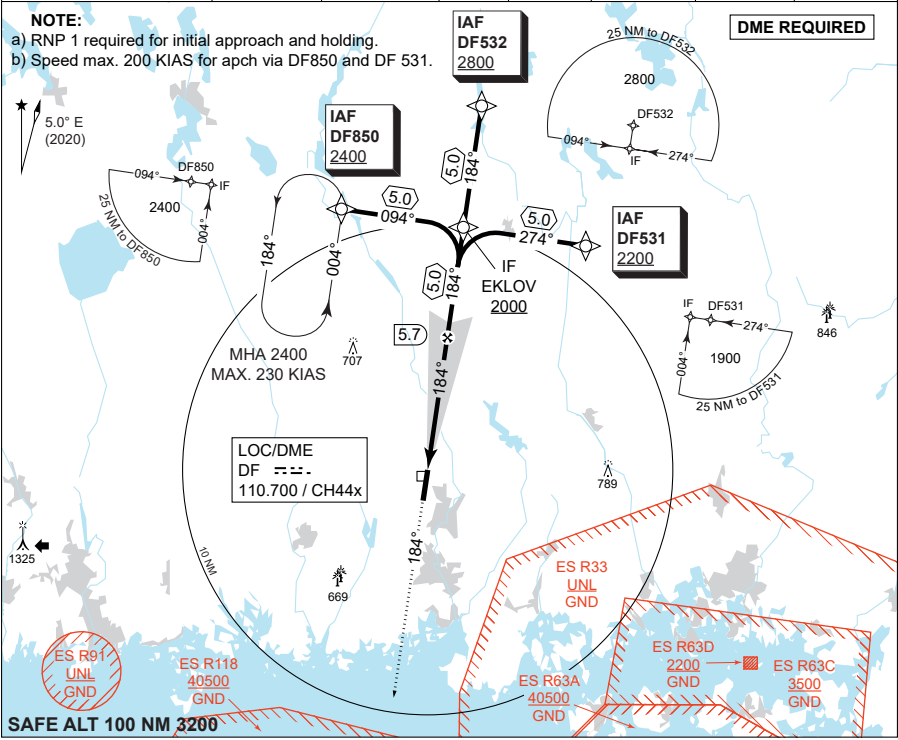
RONNEBY AB (ESDF)



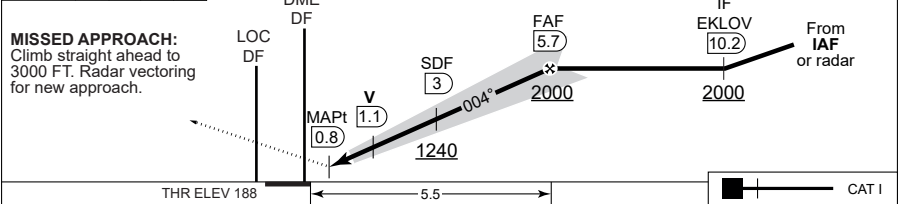
MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 19
RONNEBY AB (ESDF)

RONNEBY APPROACH 128.455 129.905		RONNEBY TOWER 119.205		GROUND 121.855		
LOC / DME DF 110.700 / CH 44x	APP COURSE 184°	GS INTCP ALT 2000	GS 3.00°	DA 388	THR ELEV 188	ALS 900 M
						LDA 7647 FT



CDFA: 3.00° / 5.24%					
DME DF	2	3	4	5	
DIST THR	1.8	2.8	3.8	4.8	
ALT	830	1150	1470	1780	



CATEGORY		D
S-ILS 19	388	- 550 200 (200-0.8/1.2)
S-LOC 19	610	- 1200 419 (500-1.2/1.9)
CIRCLING	1070	- 3.6 879 (900-3.6)

ILS or LOC RWY 19

RONNEBY AB (ESDF)

56°16.00'N
015°15.90'E
29-4



CHANGES: APPROACH, TOWER AND GROUND FREQUENCIES.

AIR COMMAND DENMARK - MIL AIRM 11 JUN 2028

MIPS

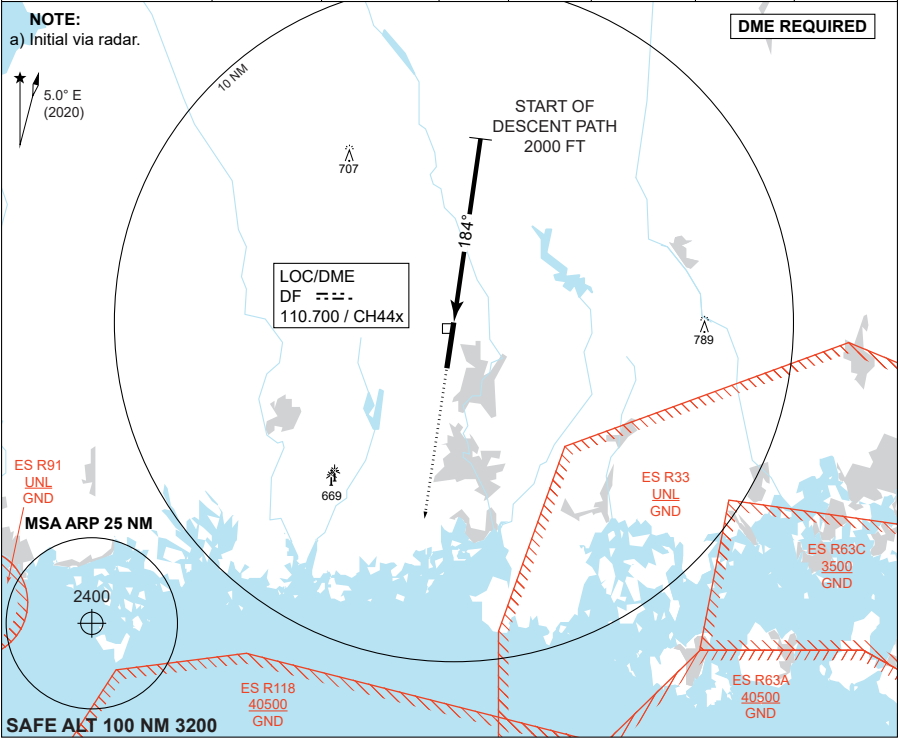
INSTRUMENT APPROACH CHART

AD ELEV 191

PAR RWY 19

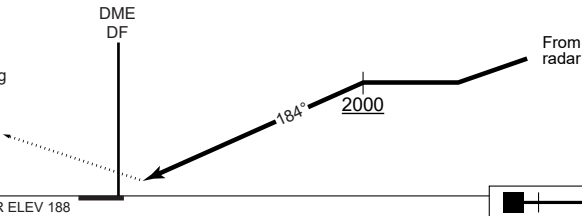
RONNEBY AB (ESDF)

RONNEBY APPROACH 128.455 129.905		RONNEBY PRECISION (PAR) 134.105 118.005		RONNEBY TOWER 119.205		GROUND 121.855	
DME DF 110.700 / CH 44x	APP COURSE 184°	GS INTCP ALT 2000	PAR GS 3.00°	DA 463	THR ELEV 188	ALS 900 M	LDA 7647 FT



CDFA: 3.00° / 5.24%						TA 5000 GS 3.00° RDH 69
DME DF	2	3	4	5		
DIST THR	1.8	2.8	3.8	4.8		
ALT	820	1140	1460	1780		

MISSED APPROACH:
Climb straight ahead to
3000 FT. Radar vectoring
for new approach.



CATEGORY	D
S-PAR 19	463 - 600 275 (300-0.8/1.3)
CIRCLING	1070 - 3.6 879 (900-3.6)

PAR RWY 19

56°16.00'N
015°15.90'E
29-5

RONNEBY AB (ESDF)



CHANGES: APPROACH, PAR, TOWER AND GROUND FREQUENCIES

AIR COMMAND DENMARK - MIL AIM 11 JUN 2028

WAYPOINT LIST
RONNEBY AB (ESDF)

Ronneby AB (ESDF) waypoint coordinates:

		CODING		DISPLAY
DF531	IAF	56 25 46.0N	015 27 43.1E	56 25.767N 015 27.718E
DF532	IAF	56 31 27.5N	015 20 11.0E	56 31.458N 015 20.183E
DF550	IAF	56 04 47.6N	015 21 52.6E	56 04.793N 015 21.877E
DF711	IAF	56 06 17.4N	015 04 13.6E	56 06.290N 015 04.227E
DF712	IAF	56 00 36.8N	015 11 43.2E	56 00.613N 015 11.720E
DF850	IAF	56 27 16.6N	015 09 54.6E	56 27.277N 015 09.910E
RWY01	THR	56 15 24.95N	015 15 45.17E	56 15.416N 015 15.753E
RWY19	THR	56 16 39.45N	015 16 05.63E	56 16.658N 015 16.094E

CHANGES: NEW CHART.

AIR COMMAND DENMARK - MIL AIM 28 NOV 2024

WAYPOINT LIST

RONNEBY(ESDF)



GÖTEBORG, LANDVETTER (ESGG)

AERODROME CHART

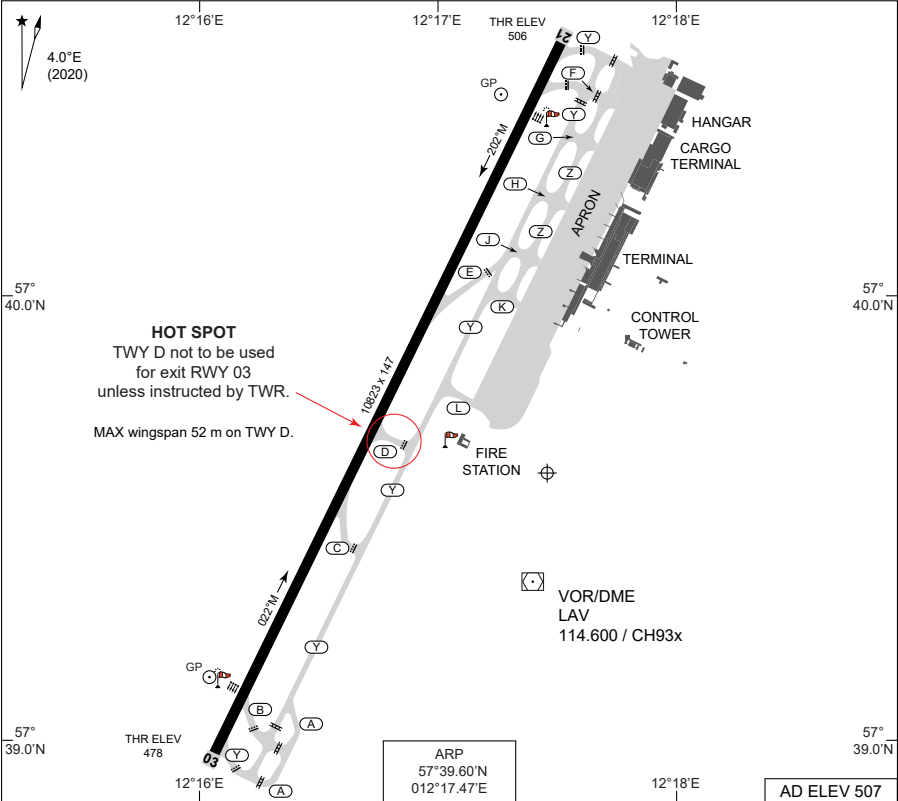
ILS Z or LOC Z RWY 03

ILS Z or LOC Z RWY 21



AERODROME CHART

GÖTEBORG, LANDVETTER (ESGG)



RWY	PCN	TORA	TODA	ASDA	LDA	PAPI	ALS	THR ELEV	THR PSN
03	81	10823	10823	10823	10823	3.0°	CAT III	478	57°38.97'N 012°16.06'E
21	81	10823	10823	10823	10823	3.0°	CAT III	506	57°40.57'N 012°17.52'E

CLEARANCE DELIVERY
LANDVETTER TOWER: 121.680
118.605 (Primary)
123.100 (SAR)

LANDVETTER GROUND: 121.905

ATIS: 118.380
114.600 (LAV VOR)

Call GROUND for Start-up, push-back and taxi instructions.

OMNIDIRECTIONAL DEPARTURES

RWY 03:
CLIMB STRAIGHT AHEAD TO MNM TURNING ALT 1000 FT.

RWY 21:
CLIMB STRAIGHT AHEAD TO MNM TURNING ALT 900 FT.

RNAV STARS and SIDs are not published in RDAF FLIP.

RNAV STARS at GÖTEBORG/Landvetter
RNAV 1 is required for these RNAV STARS. Operators receiving clearance via RNAV STAR and are unable flying RNAV 1, shall inform ATC by using phraseology "UNABLE RNAV STAR". ATC will then provide radar vectors.

RNAV SIDs at GÖTEBORG/Landvetter
All RNAV SIDs are based on RNAV 1. Operators receiving clearance via RNAV SID and are unable flying RNAV 1, shall inform ATC by using phraseology "UNABLE RNAV SID".

NOISE ABATEMENT PROCEDURES

Over the central parts of Göteborg aircraft should not be operated below 2000 ft AMSL except when necessary for take-off or landing.

Other noise sensitive areas to be avoided are shown in AIP Sweden (AD 2 ESGG).

AERODROME CHART

GÖTEBORG, LANDVETTER (ESGG)

CHANGES: NEW CHART.

AIR COMMAND DENMARK - MIL AIM 28 NOV 2024



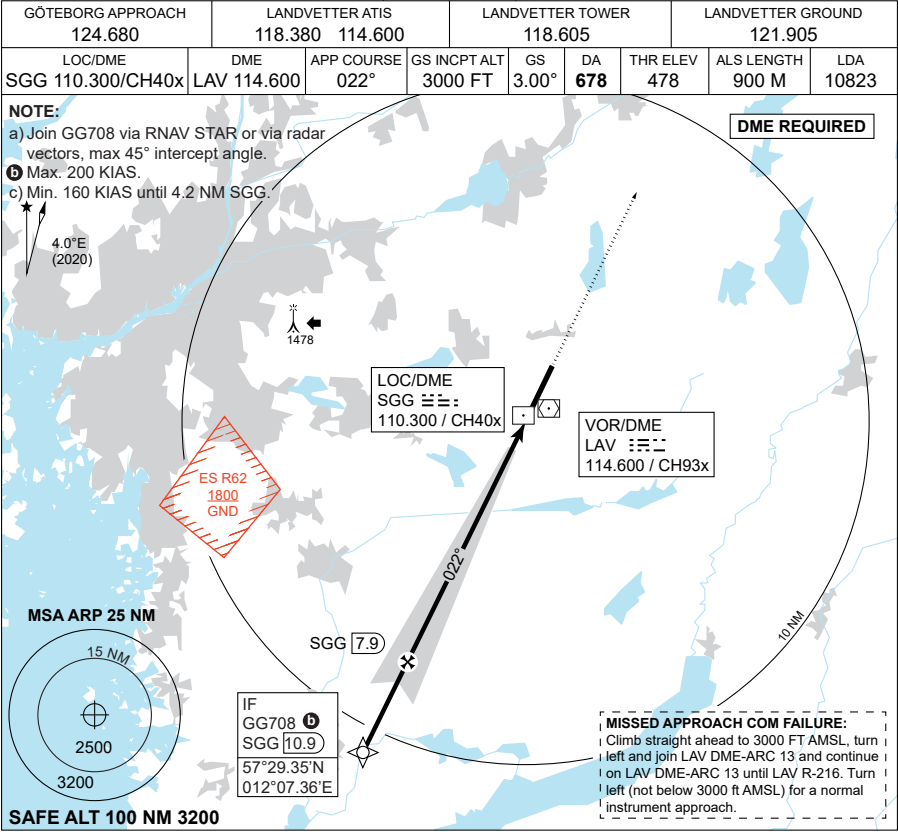
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 507

ILS Z or LOC Z RWY 03

GÖTEBORG, LANDVETTER (ESGG)



NOTE:

a) Join GG708 via RNAV STAR or via radar vectors, max 45° intercept angle.

b) Max. 200 KIAS.

c) Min. 160 KIAS until 4.2 NM SGG.

4.0°E (2020)

1478

LOC/DME SGG 110.300 / CH40x

VOR/DME LAV 114.600 / CH93x

ES R62 1800 GND

MSA ARP 25 NM

15 NM

2500

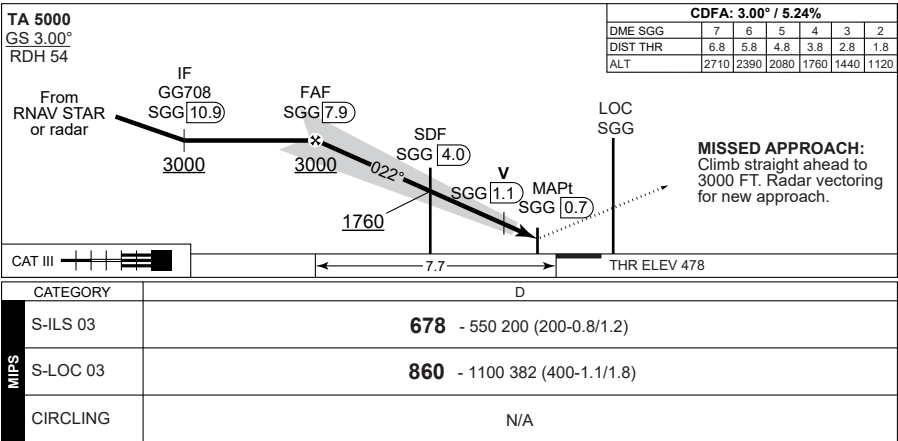
3200

SGG 7.9

IF GG708 SGG 10.9 57°29.35'N 012°07.36'E

MISSED APPROACH COM FAILURE: Climb straight ahead to 3000 FT AMSL, turn left and join LAV DME-ARC 13 and continue on LAV DME-ARC 13 until LAV R-216. Turn left (not below 3000 ft AMSL) for a normal instrument approach.

SAFE ALT 100 NM 3200



ILS Z or LOC Z RWY 03

57°39.60'N 012°17.47'E

GÖTEBORG, LANDVETTER (ESGG)

30-2



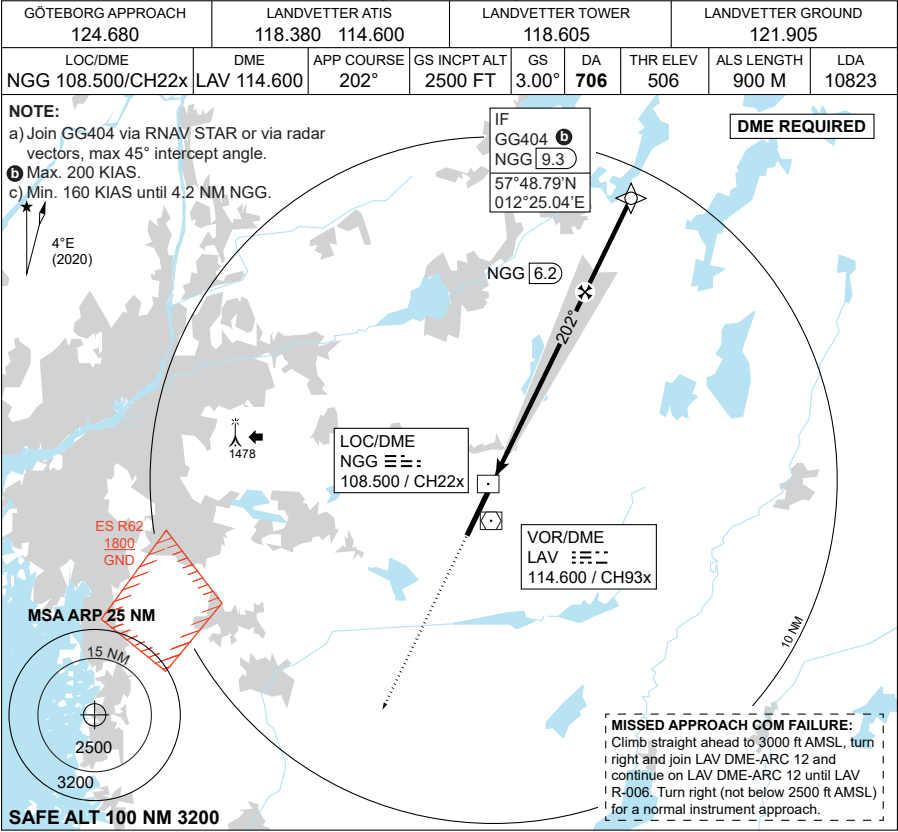
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 507

ILS Z or LOC Z RWY 21

GÖTEBORG, LANDVETTER (ESGG)



NOTE:

a) Join GG404 via RNAV STAR or via radar vectors, max 45° intercept angle.

b) Max. 200 KIAS.

c) Min. 160 KIAS until 4.2 NM NGG.

4°E

(2020)

IF

GG404

NGG 9.3

57°48.79'N

012°25.04'E

DME REQUIRED

LOC/DME

NGG ≡≡≡

108.500 / CH22x

VOR/DME

LAV ≡≡≡

114.600 / CH93x

ES R62

1800

GND

MSA ARP 25 NM

15 NM

2500

3200

SAFE ALT 100 NM 3200

MISSED APPROACH COM FAILURE:

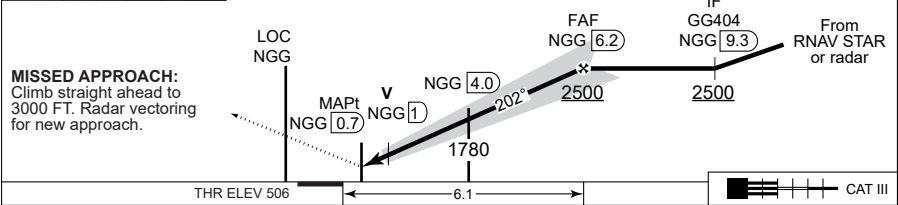
Climb straight ahead to 3000 ft AMSL, turn right and join LAV DME-ARC 12 and continue on LAV DME-ARC 12 until LAV R-006. Turn right (not below 2500 ft AMSL) for a normal instrument approach.

CDFA: 3.00° / 5.24%						
DME NGG	2	3	4	5	6	
DIST THR	1.8	2.8	3.8	4.8	5.8	
ALT	1140	1460	1780	2090	2410	

TA 5000

GS 3.00°

RDH 50



CATEGORY	D
S-ILS 21	706 - 550 200 (200-0.8/1.2)
S-LOC 21	830 - 800 323 (400-0.8/1.5)
CIRCLING	N/A

ILS Z or LOC Z RWY 21

57°39.60'N
012°17.47'E
30-3

GÖTEBORG, LANDVETTER (ESGG)



CHANGES: DME NGG SHOWN IN PLAN VIEW. ES R125 WITHDRAWN

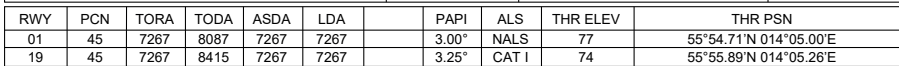
AIR COMMAND DENMARK - MIL AIM 11 JUN 2028

KRISTIANSTAD (ESMK)

AERODROME CHART

ILS or LOC RWY 19



KRISTIANSTAD (ESMK)

KRISTIANSTAD TOWER: 129.355

REMARK: Electronic Flashing System lights to RWY 19 (870-330 m before THR) and crossbar.

OMNIDIRECTIONAL DEPARTURES:

RWY 01
CLIMB STRAIGHT AHEAD TO MNM TURNING ALT 500 FT AMSL.

RWY 19
CLIMB STRAIGHT AHEAD WITH MNM 230 FT/NM (3.8%) TO MNM TURNING ALT 1000 FT AMSL.

NOISE ABATEMENT PROCEDURES:

Overflying the community of Everöd should be avoided.

ILS or LOC RWY 19
KRISTIANSTAD (ESMK)

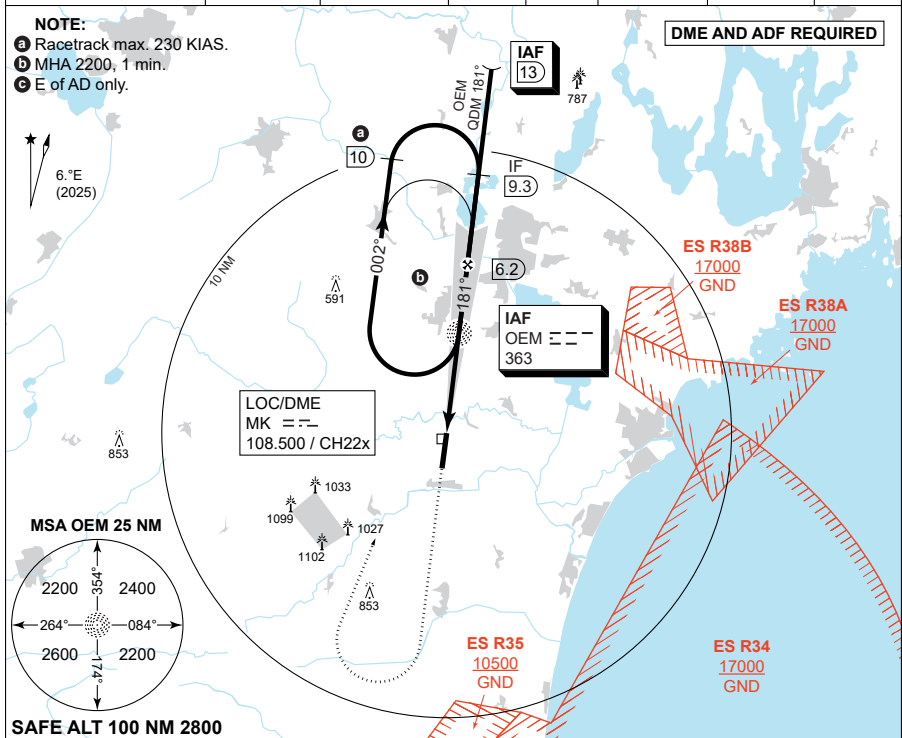
AD ELEV 77
KRISTIANSTAD TOWER
129.355

LOC / DME MK 108.500 / CH22x	APP COURSE 182°	GS INCP T ALT 2200 FT	GS 3.25°	DA 274	THR ELEV 74	ALS 900 M	LDA 7267
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NOTE:

- a** Racetrack max. 230 KIAS.
- b** MHA 2200, 1 min.
- c** E of AD only.

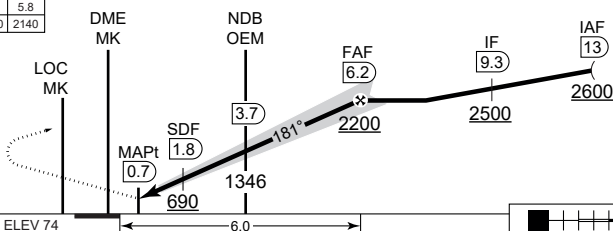
DME AND ADF REQUIRED



CDFA: 3.3° / 5.68%					
DME MK	2	3	4	5	6
DIST THR	1.8	2.8	3.8	4.8	5.8
ALT	750	1100	1450	1790	2140

TA 5000
GS 3.25°
RDH 52

MISSED APPROACH:
Climb straight ahead to
2500 FT. Turn right to
OEM (Max. 205 KIAS)
and join holding.



CATEGORY		D
MPS	S-ILS 19	274 - 550 200 (200-0.8/1.2)
	S-LOC 19	430 - 900 353 (400-0.9/1.6)
	CIRCLING	1500 - 3.6 1423 (1500-3.6)
	CIRCLING C	940 - 3.6 863 (900-3.6)

ILS or LOC RWY 19

55°55.23'N
014°05.12'E
31-2

KRISTIANSTAD (ESMK)

CHANGES: EDITORIAL.

AIR COMMAND DENMARK - MIL AIM 06 AUG 2026

MALMO (ESMS)

AERODROME CHART

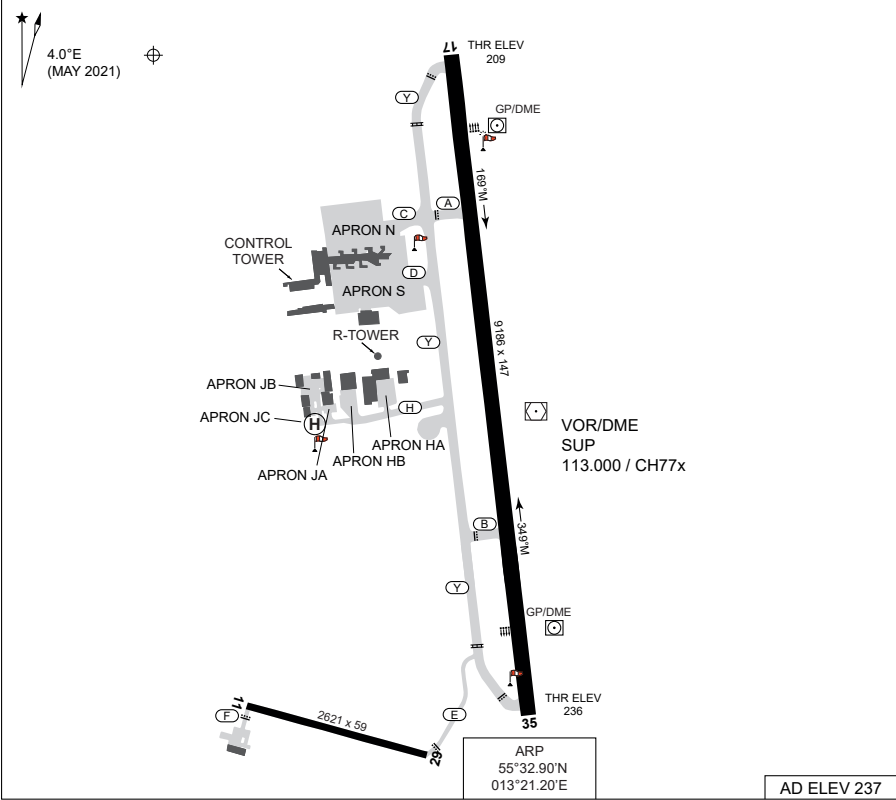
ILS or LOC RWY 17

ILS or LOC RWY 35



AERODROME CHART

MALMO (ESMS)



RWY	PCN	TORA	TODA	ASDA	LDA	PAPI	ALS	THR ELEV	THR PSN
17	80	9186	10170	9186	9186	3.0°	CAT II	209	55°32.88'N 013°22.43'E
35	80	9186	10170	9186	9186	3.0°	CAT I	236	55°31.39'N 013°22.74'E

STURUP TOWER: 118.805 (PRIMARY)
ATIS: 121.705 (HO)
129.280

RNAV STARS and SIDs are not published in RDAF FLIP. Aircraft unable to conform to these procedures shall inform ATS accordingly.

OMNIDIRECTIONAL DEPARTURES

RWY 17:
CLIMB STRAIGHT AHEAD WITH MNM 250 FT/NM (4%) TO MNM TURNING ALT 700 FT.

RWY 35:
CLIMB STRAIGHT AHEAD TO MNM TURNING ALT 700 FT.

NOISE ABATEMENT PROCEDURES

Over the central parts of Malmö and Lund and over built up areas around Malmö aerodrome aircraft should not be operated below 2000 ft AMSL except when necessary for take-off or landing.

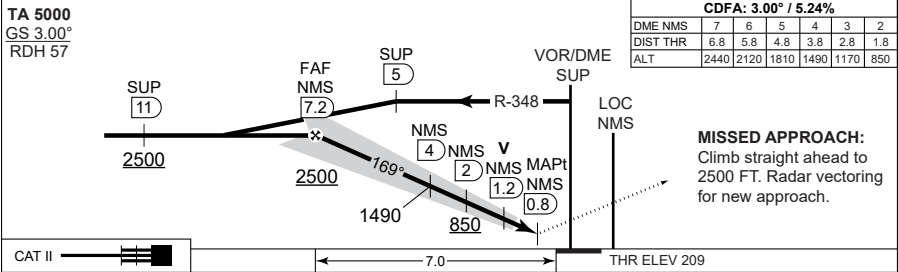
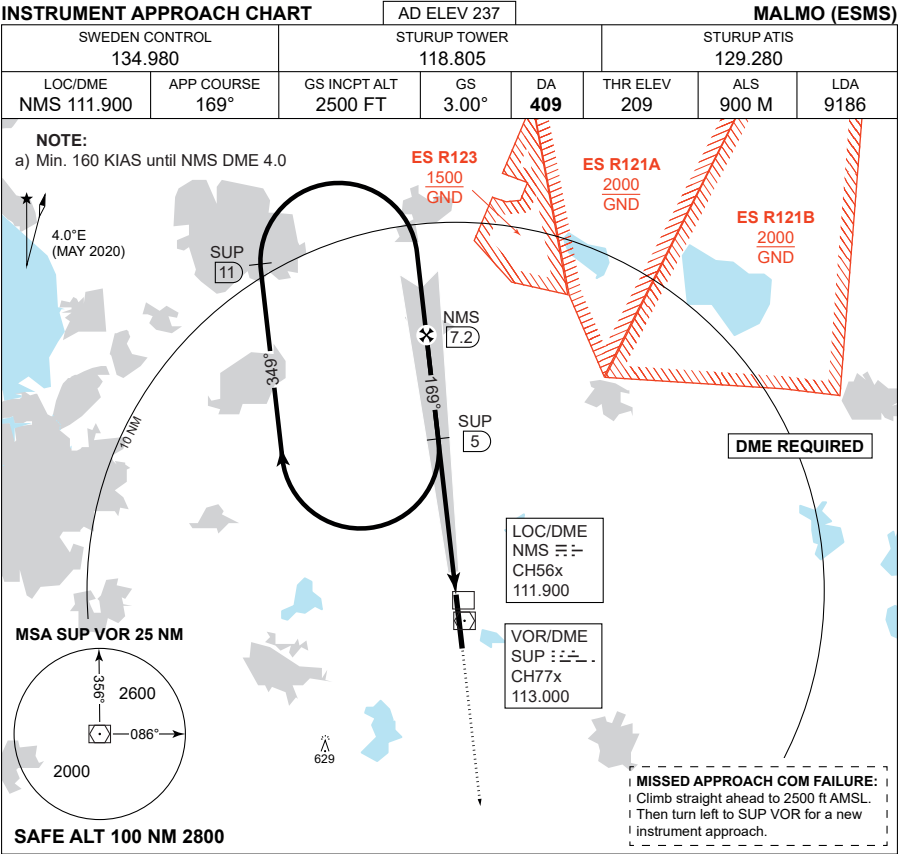
AERODROME CHART

MALMO (ESMS)



MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 17
MALMO (ESMS)



CATEGORY	D
S-ILS 17	409 - 550 200 (200-0.8/1.2)
S-LOC 17	570 - 1000 361 (400-1.0/1.7)
CIRCLING	1100 - 3.6 863 (900-3.6)

ILS or LOC RWY 17

MALMO (ESMS)

55°32.90'N
013°21.20'E
32-2



CHANGES: NEW PROCEDURE.

AIR COMMAND DENMARK - MIL AIM 28 NOV 2024

MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 35
MALMO (ESMS)

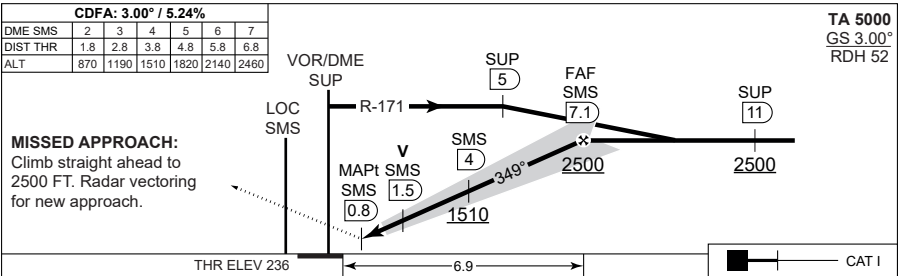
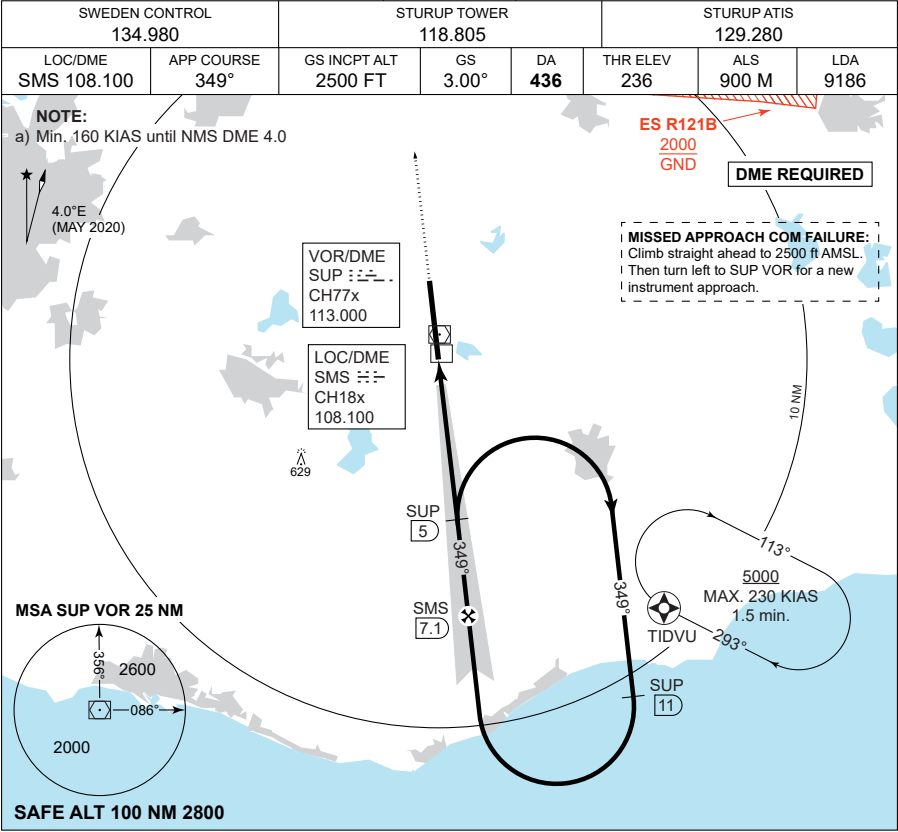


Table with 2 columns: CATEGORY, D. Rows include S-ILS 35, S-LOC 35, and CIRCLING with corresponding distance and speed data.

ILS or LOC RWY 35 MALMO (ESMS)

CHANGES: NEW PROCEDURE.

AIR COMMAND DENMARK - MIL AIM 28 NOV 2024



HALMSTAD (ESMT)

AERODROME CHART

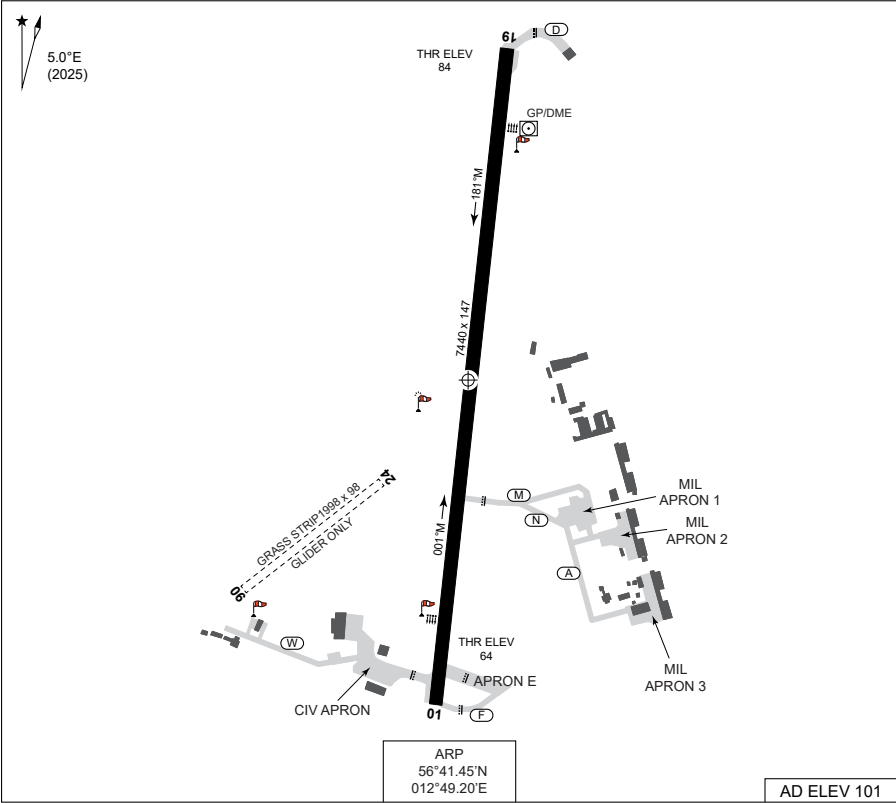
ILS or LOC Z RWY 19

ILS or LOC Y RWY 19



AERODROME CHART

HALMSTAD (ESMT)



RWY	PCN	TORA	TODA	ASDA	LDA	PAPI	ALS	THR ELEV	THR PSN
01	45	7440	7440	7440	7440	3.25°	SRC	64	56°40.86'N 012°49.09'E
19	45	7440	7440	7440	7440	3.00°	CAT I	84	56°42.07'N 012°49.33'E

HALMSTAD TOWER: 130.105 (PRIMARY)
135.055

RNAV STARS and SIDs are not published in RDAF FLIP. Aircraft unable to conform to these procedures shall inform ATS accordingly.

OMNIDIRECTIONAL DEPARTURES

RWY 01:
CLIMB STRAIGHT AHEAD WITH MNM 360 FT/NM (5.8%) TO MNM TURNING ALT 1300 FT.

RWY 19:
CLIMB STRAIGHT AHEAD TO MNM TURNING ALT 500 FT.

NOISE ABATEMENT PROCEDURES

For departing IFR-traffic with a MTOM exceeding 5700 kg and not cleared via SID the following applies: After take-off RWY 19 turn must not be initiated until passing NDB MF.

Start RWY 19 and landing RWY 01 accepted only when wind conditions or other flight safety reasons so require.

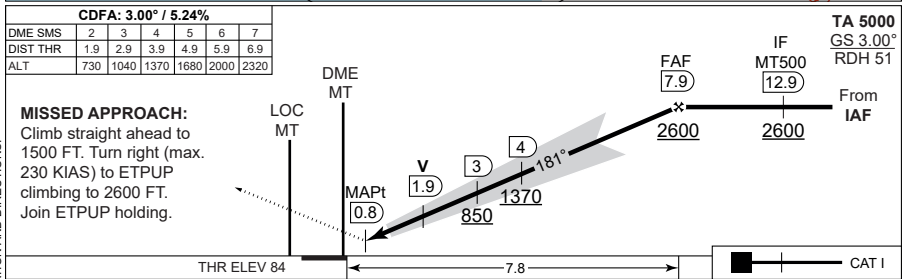
Visual Approach: Aeroplane with MTOM exceeding 5700 kg shall maintain 2000 ft until final.

AERODROME CHART

HALMSTAD (ESMT)



**ILS Z or LOC Z RWY 19
HALMSTAD (ESMT)**



CATEGORY		D
MIPS	S-ILS 19	284 - 550 200 (200-0.8/1.2)
	S-LOC 19	720 - 2200 636 (700-2.2/2.9)
	CIRCLING b	1280 - 3.6 1179 (1200-3.6)

ILS Z or LOC Z RWY 19	56°41.45'N 012°49'20'E	HALMSTAD (ESMT)
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HALMSTAD (ESMT)



CHANGES: MAGNETIC VARIATION AND DIRECTIONS.

AIR COMMAND DENMARK - MIL AIM 19 FEB 2026

MIPS
INSTRUMENT APPROACH CHART

ILS Y or LOC Y RWY 19
HALMSTAD (ESMT)

Table with 8 columns: LOC/DME, APP COURSE, GS INCLPT ALT, GS, DA, THR ELEV, ALS, LDA. Values include MT 110.100 / CH 38x, 181°, 2600, 3.00°, 284, 84, 885 M, 7440 FT.

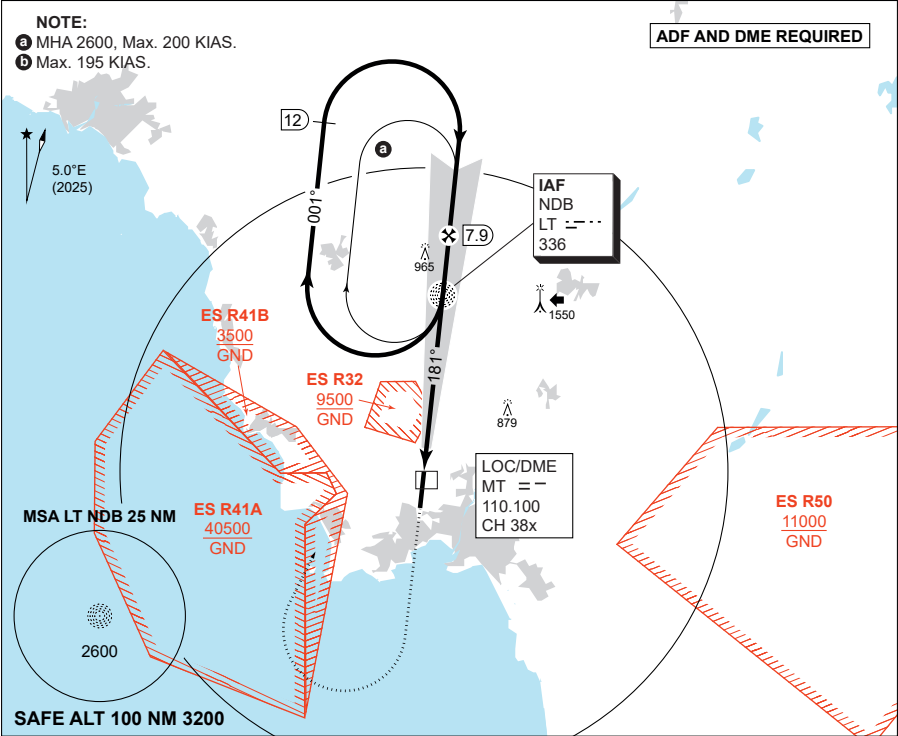


Table with 2 rows: CDFA: 3.00° / 5.24%, and TA 5000 GS 3.00° RDH 51. The first row contains DME SMS and DIST THR values. The second row contains ALT values.

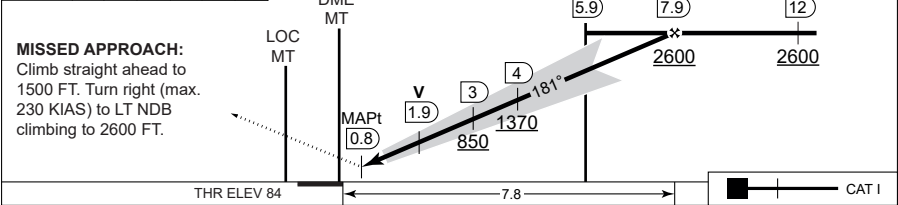


Table with 2 columns: CATEGORY, D. Values include S-ILS 19, S-LOC 19, and CIRCLING b.

ILS Y or LOC Y RWY 19 HALMSTAD (ESMT)

56°41.45'N
012°49.20'E
33-3



CHANGES: MAGNETIC VARIATION AND DIRECTIONS.

AIR COMMAND DENMARK - MIL AIM 19 FEB 2028

ÄNGELHOLM (ESTA)

AERODROME CHART

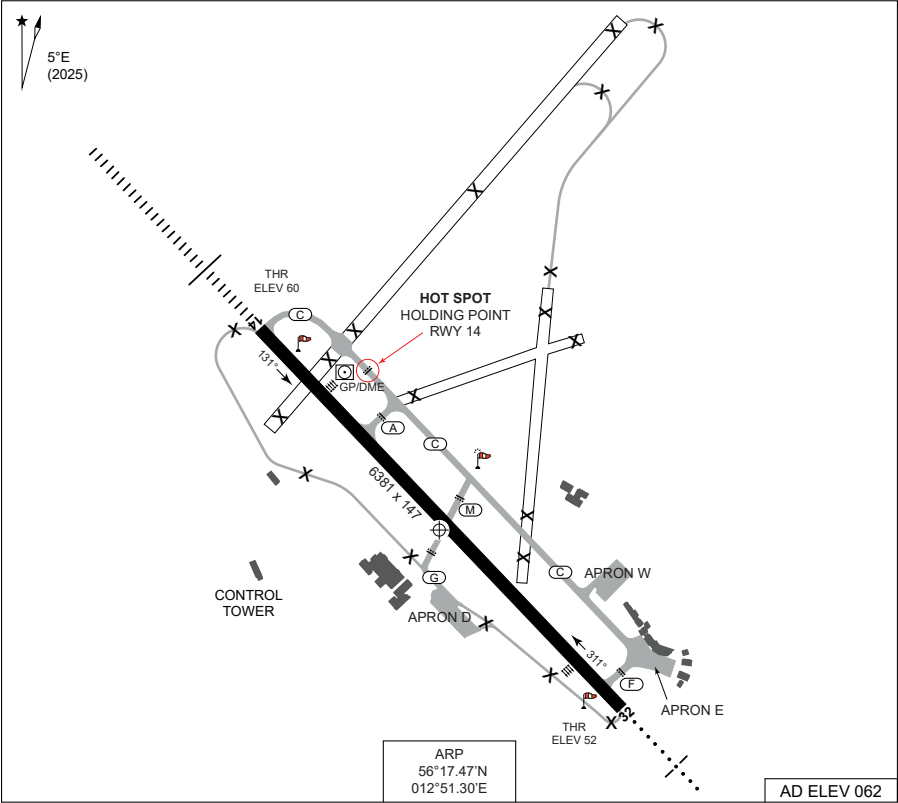
ILS Z or LOC Z RWY 14

ILS Y or LOC Y RWY 14



AERODROME CHART

ÄNGELHOLM (ESTA)



RWY	PCN	TORA	TODA	ASDA	LDA		PAPI	ALS	THR ELEV	THR PSN
14	51	6381	6381	6381	6381		3.0°	CAT I	60	56°17.87'N 012°50.65'E
32	51	6381	7053	6381	6381		3.0°	SRC	52	56°17.11'N 012°51.95'E

ÄNGELHOLM TOWER: 127.105
ATIS: N/A

RNAV STARS are not published in RDAF FLIP. Aircraft unable to conform to these procedures shall inform ATS accordingly.

OMNIDIRECTIONAL DEPARTURES

RWY 14:
CLIMB STRAIGHT AHEAD TO MNM TURNING ALT 600 FT.
CONTINUE CLIMB TO APPROPRIATE MSA.

RWY 32:
CLIMB STRAIGHT AHEAD TO MNM TURNING ALT 700 FT.
CONTINUE CLIMB TO APPROPRIATE MSA.

NOISE ABATEMENT PROCEDURES

Over the central parts of Ängelholm aircraft should not be operated below 2000 ft AMSL except when necessary for take-off or landing.

AERODROME CHART

ÄNGELHOLM (ESTA)



MIPS
INSTRUMENT APPROACH CHART

ILS Z or LOC Z RWY 14
ÄNGELHOLM (ESTA)

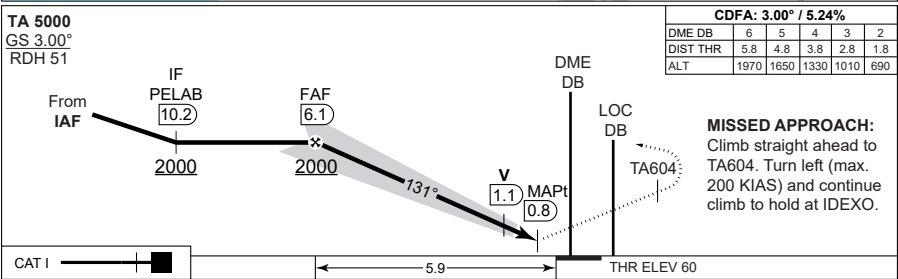
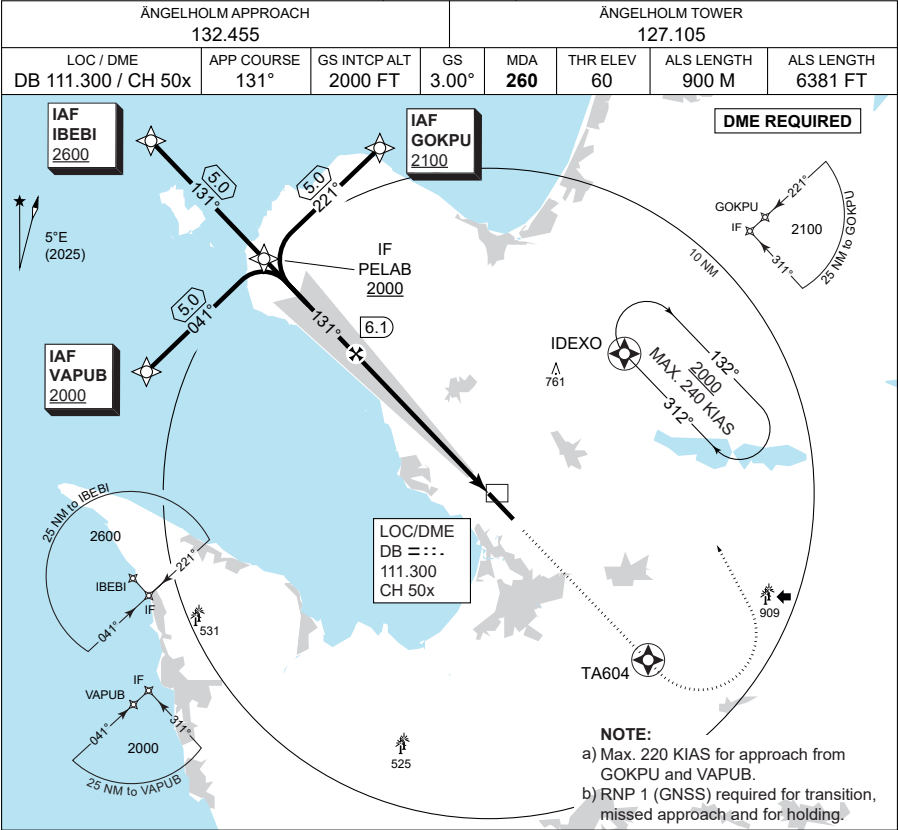


Table with 2 columns: CATEGORY and D. Rows include S-ILS 14, S-LOC 14, and CIRCLING with their respective D values.

ILS Z or LOC Z RWY 14 56°17.47'N 012°51.30'E 34-2 ÄNGELHOLM (ESTA)



CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL AIM 11 JUN 2028

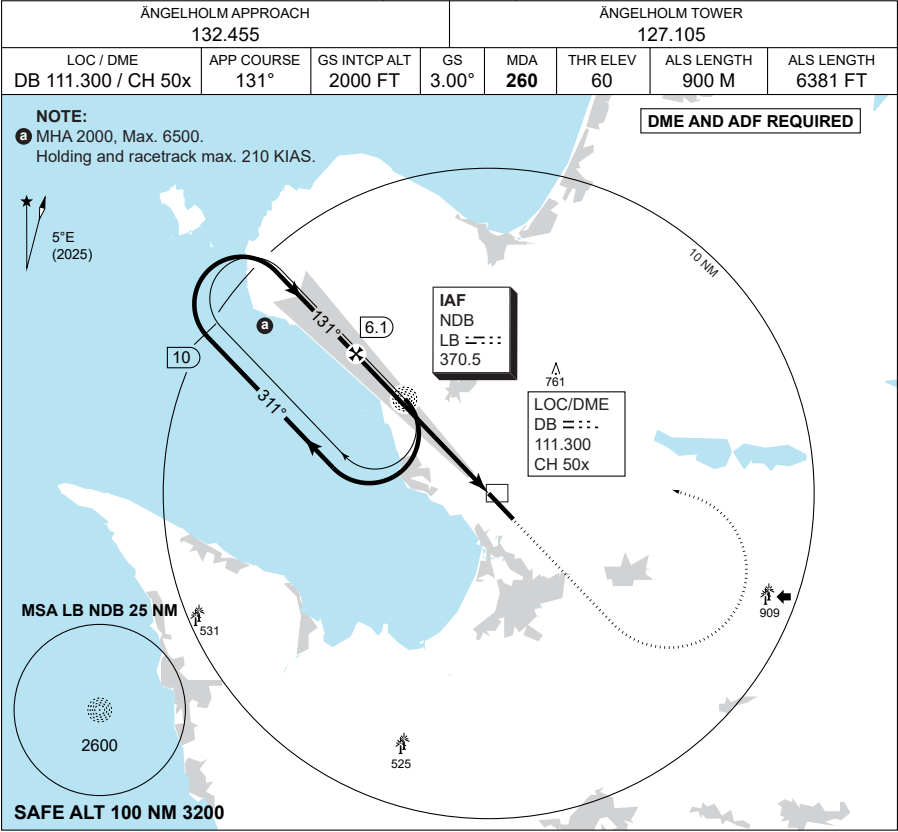
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 62

ILS Y or LOC Y RWY 14

ÄNGELHOLM (ESTA)



NOTE:

a MHA 2000, Max. 6500.

Holding and racetrack max. 210 KIAS.

DME AND ADF REQUIRED

5°E

(2025)

10

131°

6.1

311°

10 NM

761

LOC/DME

DB ::::

111.300

CH 50x

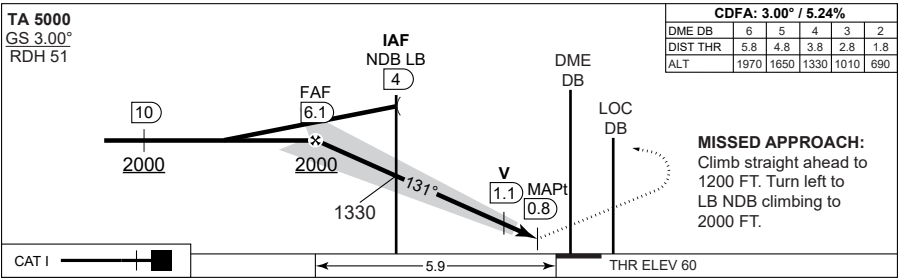
531

2600

525

909

SAFE ALT 100 NM 3200



CATEGORY	D
S-ILS 14	260 - 550 200 (200-0.8/1.2)
S-LOC 14	420 - 900 358 (400-0.9/1.6)
CIRCLING	1160 - 3.6 1098 (1100-3.6)

ILS Y or LOC Y RWY 14

56°17.47'N

012°51.30'E

34-3

ÄNGELHOLM (ESTA)



CHANGES: EDITORIAL

MIPS

AIR COMMAND DENMARK - MIL AIM 11 JUN 2026

RDAF FLIP

Publication dates and editorial deadlines 2026

Publication date: **12**

Editorial deadline: **25**

JAN	FEB	MAR	APR	MAJ	JUN	JUL	AUG	SEP	OKT	NOV	DEC
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31		31		31		31	31		31		31



INSTRUMENT DEPARTURE OR APPROACH PROCEDURE CHARTS

RATE OF CLIMB OR DESCENT TABLE

(FEET PR MINUTE)

A rate of climb or descent table is provided for use in planning and execution of climbs or descent under known or approximate ground speed conditions. All figures are rounded up to the nearest 10 feet increment.

CLIMB / DESCENT GRADIENT			GROUND SPEED (KNOTS)										
Deg.	%	FT/ NM	60	90	120	150	180	210	240	270	300	330	360
1.43°	2.50	160	160	230	310	380	460	540	610	690	760	840	920
2.0°	3.49	220	220	320	430	540	640	750	850	960	1070	1170	1280
2.5°	4.37	270	270	400	540	670	800	930	1070	1200	1330	1460	1600
2.75°	4.80	300	300	440	590	730	880	1030	1170	1320	1460	1610	1760
3.0°	5.24	320	320	480	640	800	960	1120	1280	1440	1600	1760	1920
3.5°	6.12	380	380	560	750	930	1120	1310	1490	1680	1860	2050	2230
4.0°	6.99	430	430	640	850	1070	1280	1490	1700	1920	2130	2340	2550
4.5°	7.87	480	480	720	960	1200	1440	1680	1920	2160	2400	2640	2870
5.0°	8.75	540	540	800	1070	1330	1600	1870	2130	2400	2660	2930	3190
5.5°	9.63	590	590	880	1180	1470	1760	2050	2350	2640	2930	3220	3520
6.0°	10.5	640	640	960	1280	1600	1920	2240	2560	2880	3200	3520	3840
6.5°	11.4	700	700	1040	1390	1740	2080	2430	2770	3120	3470	3810	4160
7.0°	12.3	750	750	1120	1500	1870	2240	2620	2990	3360	3740	4110	4480
7.5°	13.2	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
8.0°	14.1	860	860	1290	1710	2140	2570	2990	3420	3850	4270	4700	5130
8.5°	14.9	910	910	1370	1820	2280	2730	3180	3640	4090	4550	5000	5450
9.0°	15.8	970	970	1450	1930	2410	2890	3370	3850	4340	4820	5300	5780
9.5°	16.7	1020	1020	1530	2040	2550	3060	3560	4070	4580	5090	5600	6110
10.0°	17.6	1080	1080	1610	2150	2680	3220	3750	4290	4830	5360	5900	6430

