

GEILENKIRCHEN (ETNG)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
09	75 F/B/X/T	10002	10002	10002	9515	3.0°		264	50°57.66'N 006°01.33'E
27	75 F/B/X/T	10002	10002	10002	9516	3.0°		290	50°57.64'N 006°03.68'E
FRISBEE TOWER		120.050	140.075	257.800	378.575	122.100			
FRISBEE RADAR		378.050x	244.550	123.725	SSR 6170 - 6177				
	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	TERPS	09	3.0°	64		1300	AB CDE	TERPS	464-0.8 200 (200-0.8) 464-1.2 200 (200-1.2)
	TERPS	27	3.0°	56		1180	ABCDE	TERPS	490-0.8 200 (200-0.8/1.2)
SRA	TERPS	09					AB C DE	TERPS	700-1.2 436 (500-1.2/1.6) 700-1.6 436 (500-1.6/2.0) 700-2.0 436 (500-2.0/2.4)
	TERPS	27					AB C DE	TERPS	740-0.8 450 (500-0.8/1.6) 740-1.2 450 (500-1.2/2.0) 740-1.6 450 (500-1.6/2.4)

ZentrLuftOp 04 JAN 2018

GEILENKIRCHEN (ETNG)

**TERPS
INSTRUMENT DEPARTURE CHART**

AD ELEV 292

**NG 12 - 32
GEILENKIRCHEN (ETNG)**

FRISBEE TWR 378.575 140.075 120.050			FRISBEE RADAR 244.550 123.725			LANGEN RADAR 337.850 128.500					
BEEK RADAR 278.500 123.980			RWY	from - to	60	120	180	240	300	360	Reason
			27	DER - 2000 ft	548	1096	1644	2192	2740	3288	ATC
			09	DER - 2000 ft	499	998	1497	1996	2495	2994	ATC

CAUTION:

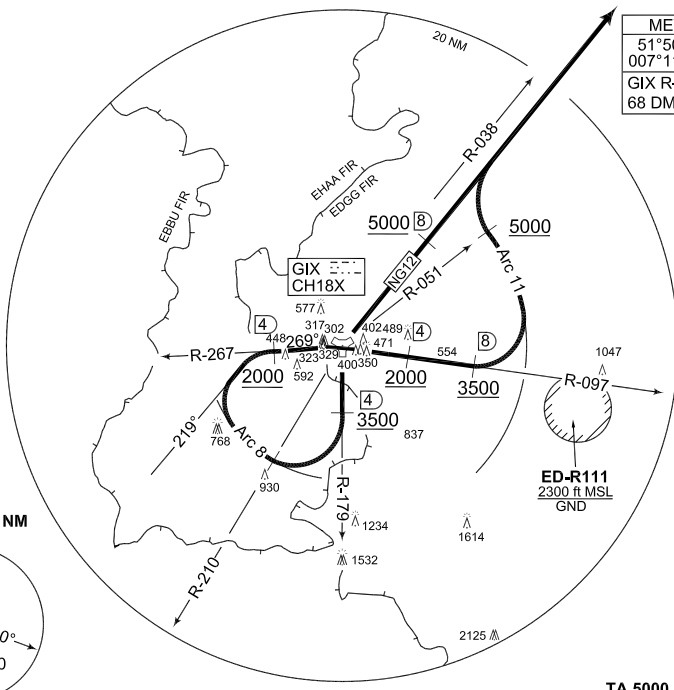
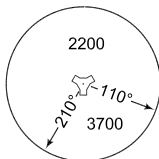
CLOSE IN OBSTACLES

TREES LOCATED 1000M BEHIND END OF RWY 09 480M NORTH OF CENTERLINE ALT. 402FT
TREES LOCATED 165M BEHIND END OF RWY 27 180M NORTH OF CENTERLINE ALT. 302FT
TREES LOCATED 420M BEHIND END OF RWY 27 261M NORTH OF CENTERLINE ALT. 317FT
TREES LOCATED 390M BEHIND END OF RWY 27 145M SOUTH OF CENTERLINE ALT. 323FT
TREES LOCATED 275M BEHIND END OF RWY 27 480M SOUTH OF CENTERLINE ALT. 329FT



MEVEL
51°50.92'N
007°11.45'E
GIX R-038/ 68 DME

MSA GIX 25 NM



ED-R111
2300 ft MSL
GND

EMERG SAFE ALT 100 NM 4200

**TA 5000 (FRG)
TA 3000 (NL)
TA 4500 (B)**

CHANGE: MSA (179/17)

NG 12 (RWY 27)	- Climb on track 269° (GIX R-267) to GIX/4 DME, pass GIX/4 DME at 2000 ft or above - Turn left on heading 219° to intercept GIX arc 8 - When crossing GIX R-210 turn left and proceed on GIX R-179 to GIX - Cross GIX R-179/4 DME at 3500 ft or above - Proceed on GIX R-038 to MEVEL - Cross GIX R-038/8 DME at 5000 ft or above
NG 32 (RWY 09)	- Climb on GIX R-097 outbound, pass GIX/4 DME at 2000 ft or above - Pass GIX/8 DME at 3500 ft or above and turn left to intercept GIX Arc 11 - Cross GIX R-051 at 5000 ft or above - Turn right and proceed on GIX R-038 to MEVEL

NG 12 - 32

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

ZentLufTop 20 JUL 2017

TERPS INSTRUMENT DEPARTURE CHART

AD ELEV 292

NG 13-33
GEILENKIRCHEN (ETNG)

FRISBEE TWR 378.575 140.075 120.050	FRISBEE RADAR 244.550 123.725	LANGEN RADAR 337.850 128.500							
BEEK RADAR 278.500 123.980	RWY	from - to	60	120	180	240	300	360	Reason
	27	DER - 2000 ft	548	1096	1644	2192	2740	3288	ATC
	09	DER - 2000 ft	499	998	1497	1996	2495	2994	ATC

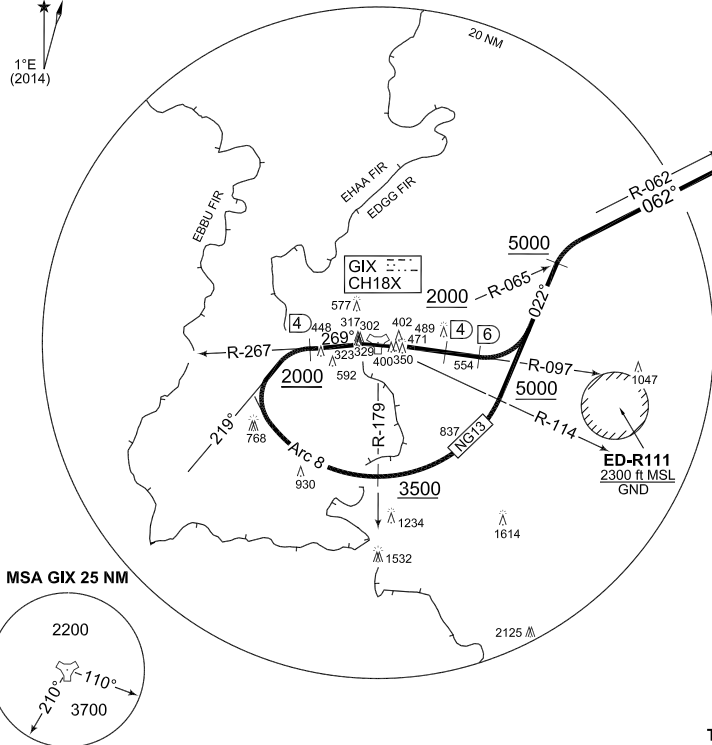
CAUTION:

CLOSE IN OBSTACLES

TREES LOCATED 1000M BEHIND END OF RWY 09 480M NORTH OF CENTERLINE ALT. 402FT
TREES LOCATED 165M BEHIND END OF RWY 27 180M NORTH OF CENTERLINE ALT. 302FT
TREES LOCATED 420M BEHIND END OF RWY 27 261M NORTH OF CENTERLINE ALT. 317FT
TREES LOCATED 390M BEHIND END OF RWY 27 145M SOUTH OF CENTERLINE ALT. 323FT
TREES LOCATED 275M BEHIND END OF RWY 27 480M SOUTH OF CENTERLINE ALT. 329FT



BAM	113.6
CH83X	
GIX R-062	48 DME



EMERG SAFE ALT 100 NM 4200

TA 5000 (FRG)
TA 3000 (NL)
TA 4500 (B)

NG 13 (RWY 27)	- Climb on track 269° (GIX R-267) to GIX/4 DME, pass GIX/4 DME at 2000 ft or above - Turn left on heading 219° to intercept GIX arc 8 - Cross GIX R-179 at 3500 ft or above - Cross GIX R-114 at 5000 ft or above and proceed on track 022° - When crossing GIX R-065 turn right and proceed on GIX R-062 to BAM
NG 33 (RWY 09)	- Climb on GIX R-097 outbound, pass GIX/4 DME at 2000 ft or above - At GIX/6 DME turn left and proceed on track 022° - Cross GIX R-065 at 5000 ft or above and turn right to proceed on GIX R-062 to BAM

NG 13 - 33

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

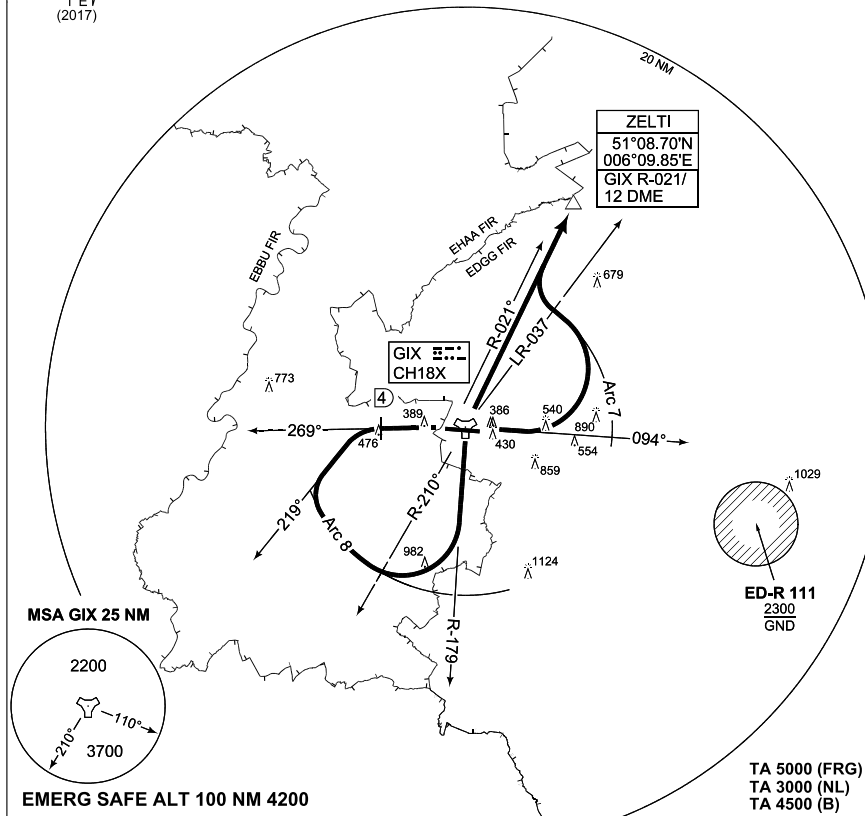
PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 292

NG 81 - 91
GEILENKIRCHEN (ETNG)

FRISBEE TOWER 378.575 140.075 120.050	FRISBEE RADAR 244.550 123.725	LANGEN RADAR 337.850 128.500
BEEK RADAR 278.500 123.980		

CAUTION:
CLOSE-IN OBSTACLE:
TREE LOCATED 418M BEHIND
END OF RWY 27
261M NORTH OF CENTERLINE
ALTITUDE 317FT.



NG 81 (RWY 27)	- Climb on track 269° to GIX/4 DME - Turn left on heading 219° to intercept GIX Arc 8 - When crossing GIX R-210 turn left and proceed on GIX R-179 to GIX - Proceed on GIX R-021 to ZELTI
NG 91 (RWY 09)	- Climb on track 094° to intercept GIX Arc 7 - When crossing GIX LR-037 turn right to intercept GIX R-021 and proceed to ZELTI

NG 81 - 91

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

TERPS INSTRUMENT DEPARTURE CHART

AD ELEV 292

NG 86 - 96
GEILENKIRCHEN (ETNG)

FRISBEE TWR			FRISBEE RADAR			LANGEN RADAR					
378.575	140.075	120.050	244.550 123.725			337.850 128.500					
BEEK RADAR			RWY	from - to	60	120	180	240	300	360	Reason
278.500 123.980			27	DER - 2000 ft	548	1096	1644	2192	2740	3288	ATC
CAUTION: CLOSE IN OBSTACLES			09	DER - 2000 ft	499	998	1497	1996	2495	2994	ATC
			09	2000 - 5000 ft	270	540	810	1080	1350	1620	ATC

CAUTION:

CLOSE IN OBSTACLES

TREES LOCATED 1000M BEHIND END OF RWY 09 480M NORTH OF CENTERLINE ALT. 402FT

TREES LOCATED 165M BEHIND END OF RWY 27 180M NORTH OF CENTERLINE ALT. 302FT

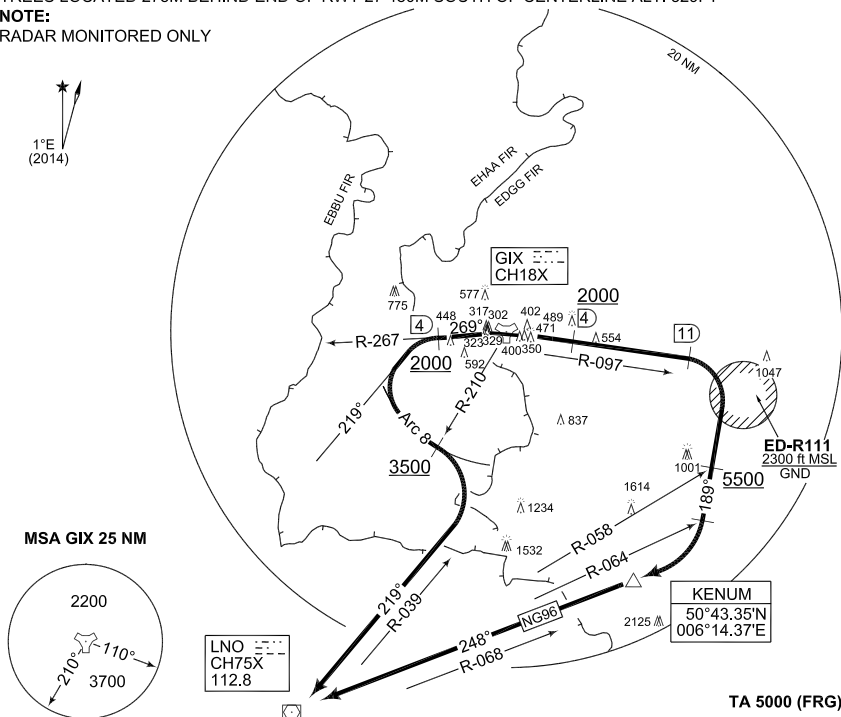
TREES LOCATED 420M BEHIND END OF RWY 27 261M NORTH OF CENTERLINE ALT. 317FT

TREES LOCATED 390M BEHIND END OF RWY 27 145M SOUTH OF CENTERLINE ALT. 323FT

TREES LOCATED 275M BEHIND END OF RWY 27 480M SOUTH OF CENTERLINE ALT. 329FT

NOTE:

RADAR MONITORED ONLY



TA 5000 (FRG)
TA 3000 (NL)
TA 4500 (B)

EMERG SAFE ALT 100 NM 4200

NG 86 (RWY 27)	DO NOT EXCEED GIX ARC 8
	- Climb on track 269° (GIX R-267) to GIX/4 DME, pass GIX/4 DME at 2000 ft or above
NG 96 (RWY 09)	- Turn left on heading 219° to intercept ARC 8 GIX
	- Pass GIX R-210 at 3500 ft or above and turn right to intercept LNO R-039
NG 86 (RWY 27)	- Proceed inbound LNO
	- Climb on GIX R-097 outbound, to GIX/11 DME, pass GIX/4 DME at 2000 ft or above
NG 96 (RWY 09)	- At GIX/11 DME turn right to heading 189°
	- Pass LNO R-058 at 5500 ft or above
NG 86 (RWY 27)	- When passing LNO R-064 turn right to intercept LNO R-068
	- Proceed inbound LNO

NG 86 - 96

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

FRISBEE TWR 378.575 140.075 120.050	FRISBEE RADAR 244.550 123.725		LANGEN RADAR 337.850 128.500	
BEEK RADAR 278.500 123.980	RWY	from - to	60	120
	09	DER - 2400 ft	395	790
	27	DER - 2000 ft	558	1116
			1674	2232
			2790	3345
				ATC

CAUTION:**CLOSE IN OBSTACLES**

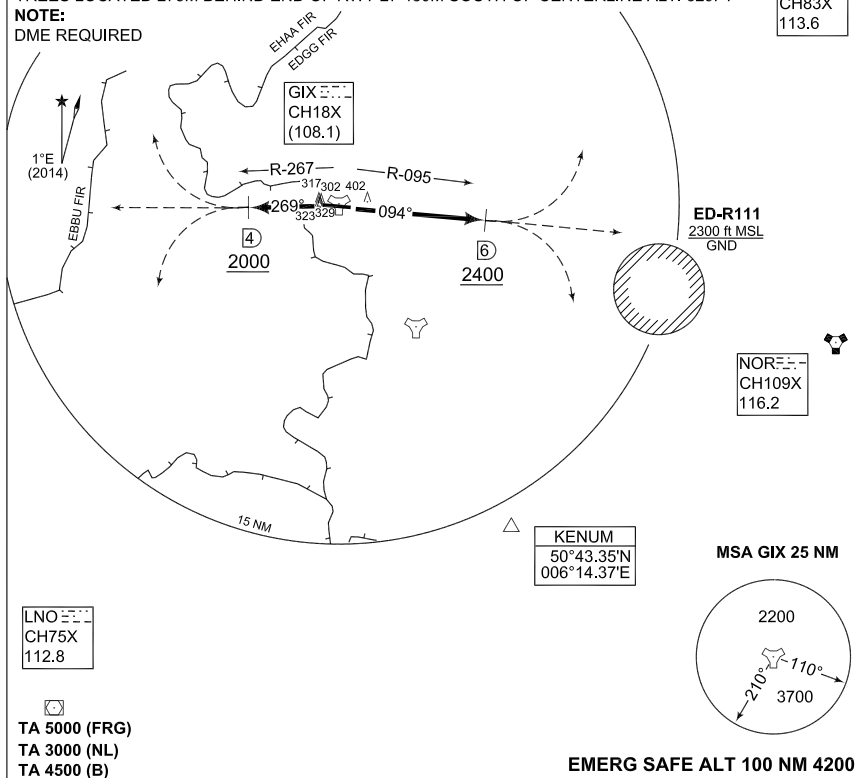
TREES LOCATED 1000M BEHIND END OF RWY 09 480M NORTH OF CENTERLINE ALT. 402FT
 TREES LOCATED 165M BEHIND END OF RWY 27 180M NORTH OF CENTERLINE ALT. 302FT
 TREES LOCATED 420M BEHIND END OF RWY 27 261M NORTH OF CENTERLINE ALT. 317FT
 TREES LOCATED 390M BEHIND END OF RWY 27 145M SOUTH OF CENTERLINE ALT. 323FT
 TREES LOCATED 275M BEHIND END OF RWY 27 480M SOUTH OF CENTERLINE ALT. 329FT

NOTE:

DME REQUIRED

MILGI
 51°11.82'N
 006°07.50'E

BAM
 CH83X
 113.6



TA 5000 (FRG)
 TA 3000 (NL)
 TA 4500 (B)

EMERG SAFE ALT 100 NM 4200

NG 109 (RWY 09)	- Climb on track 094° (GIX R-095°) to GIX/6 DME - Pass GIX/6 DME at 2400 ft or above - Continue as cleared by ATC
NG 127 (RWY 27)	- Climb on track 269° (GIX R-267°) to GIX/4 DME - Pass GIX/4 DME at 2000 ft or above - Continue as cleared by ATC

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 292

KENUM 1A - 1B
GEILENKIRCHEN (ETNG)

FRISBEE TWR 378.575 140.075 120.050			FRISBEE RADAR 244.550 123.725			BEEK RADAR 278.500 123.980					
LANGEN RADAR 337.850 128.500			RWY	from - to	60	120	180	240	300	360	Reason
			09	DER - 2100 ft	414	828	1242	1656	2070	2484	ATC
			27	DER - 2000 ft	559	1118	1677	2236	2795	3354	ATC

CAUTION:

CLOSE IN OBSTACLES

TREES LOCATED 1000M BEHIND END OF RWY 09 480M NORTH OF CENTERLINE ALT. 402FT
TREES LOCATED 165M BEHIND END OF RWY 27 180M NORTH OF CENTERLINE ALT. 302FT
TREES LOCATED 420M BEHIND END OF RWY 27 261M NORTH OF CENTERLINE ALT. 317FT
TREES LOCATED 390M BEHIND END OF RWY 27 145M SOUTH OF CENTERLINE ALT. 323FT
TREES LOCATED 275M BEHIND END OF RWY 27 480M SOUTH OF CENTERLINE ALT. 329FT

NOTE:

a) RNAV 1 NAVIGATION APPLICATION:

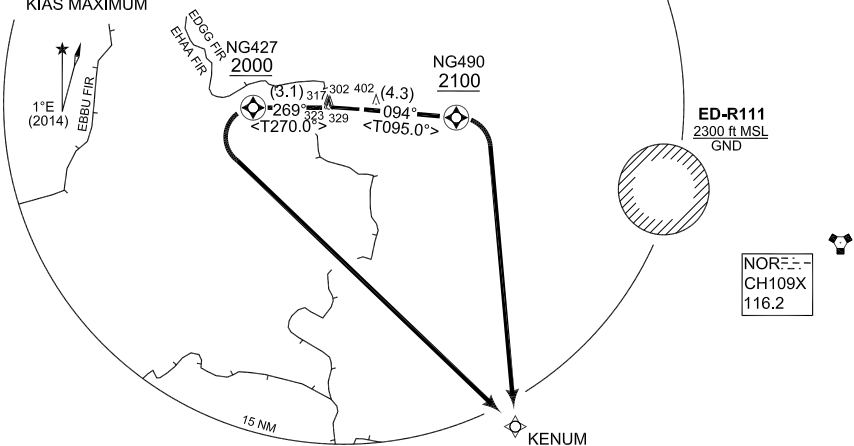
- GNSS REQUIRED
- DME/DME NOT AUTHORIZED

b) DEPARTURE TURN LIMITED TO 220

KIAS MAXIMUM

△ MILGI

BAM
CH83X
113.6



TA 5000 (FRG)

TA 3000 (NL)

TA 4500 (B)

EMERG SAFE ALT 100 NM 4200

KENUM 1A
(RWY 27)

- Climb on track 269° to NG427
- Pass NG427 at 2000 ft or above, turn left and proceed direct KENUM
- Continue as cleared by ATC

GPS/FMS RNAV: - NG427 [M269; K220-; A2000+; L] - KENUM.

KENUM 1B
(RWY 09)

- Climb on track 094° to NG490
- Pass NG490 at 2100 ft or above, turn right and proceed direct KENUM
- Continue as cleared by ATC

GPS/FMS RNAV: - NG490 [M094; K220-; A2100+; R] - KENUM.

KENUM 1A - 1B

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

MILGI 1A - 1B
GEILENKIRCHEN (ETNG)

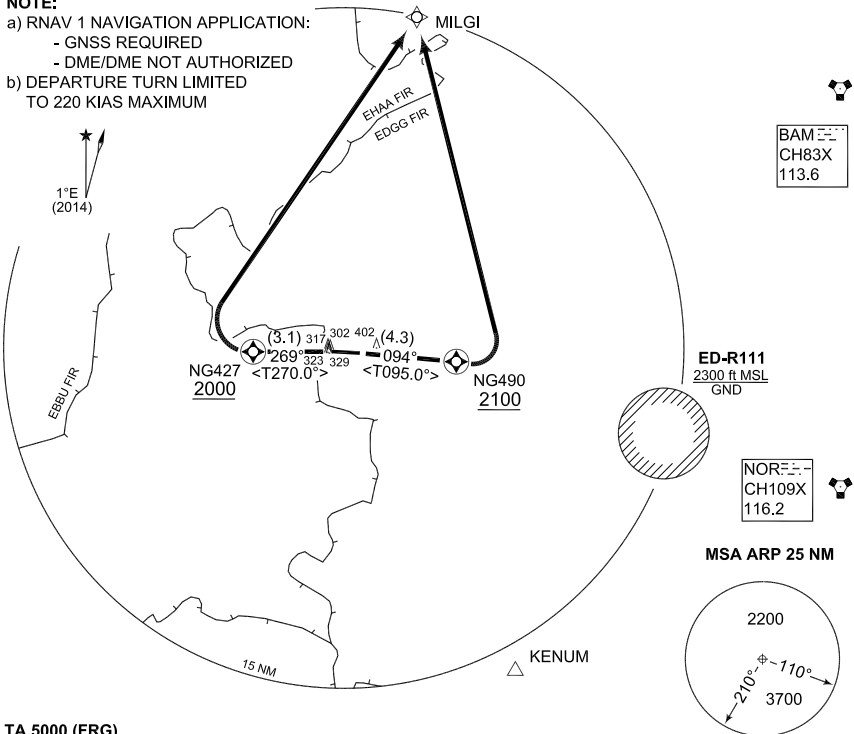
FRISBEE TWR			FRISBEE RADAR			BEEK RADAR					
378.575	140.075	120.050	244.550 123.725			278.500 123.980					
LANGEN RADAR			RWY	from - to	60	120	180	240	300	360	Reason
337.850	128.500		09	DER - 2100 ft	414	828	1242	1656	2070	2484	ATC
			27	DER - 2000 ft	559	1118	1677	2236	2795	3354	ATC

CLOSE IN OBSTACLES

TREES LOCATED 1000M BEHIND END OF RWY 09 480M NORTH OF CENTERLINE ALT. 402FT
TREES LOCATED 165M BEHIND END OF RWY 27 180M NORTH OF CENTERLINE ALT. 302FT
TREES LOCATED 420M BEHIND END OF RWY 27 261M NORTH OF CENTERLINE ALT. 317FT
TREES LOCATED 390M BEHIND END OF RWY 27 145M SOUTH OF CENTERLINE ALT. 323FT
TREES LOCATED 275M BEHIND END OF RWY 27 480M SOUTH OF CENTERLINE ALT. 329FT

NOTE:

- a) RNAV 1 NAVIGATION APPLICATION:
- GNSS REQUIRED
- DME/DME NOT AUTHORIZED
- b) DEPARTURE TURN LIMITED
TO 220 KIAS MAXIMUM



TA 5000 (FRG)
TA 3000 (NL)
TA 4500 (B)

EMERG SAFE ALT 100 NM 4200

MILGI 1A (RWY 27)	- Climb on track 269° to NG427 - Pass NG427 at 2000 ft or above, turn right and proceed direct MILGI - Continue as cleared by ATC GPS/FMS RNAV: - NG427 [M269; K220-; A2000+; R] - MILGI.
MILGI 1B (RWY 09)	- Climb on track 094° to NG490 - Pass NG490 at 2100 ft or above, turn left and proceed direct MILGI - Continue as cleared by ATC GPS/FMS RNAV: - NG490 [M094; K220-; A2100+; L] - MILGI.

MILGI 1A - 1B

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

CHANGE: MSA (179/17)

ZentrLuftOp 20 JUL 2017

KENUM 1A RNAV DEPARTURE

	CODING	DISPLAY
NG427	50 57 39.775N 005 56 18.096E	50 57.663N 005 56.301E
KENUM	50 43 21.000N 006 14 22.000E	50 43.350N 006 14.366E

KENUM 1B RNAV DEPARTURE

	CODING	DISPLAY
NG490	50 57 15.662N 006 10 34.951E	50 57.261N 006 10.582E
KENUM	50 43 21.000N 006 14 22.000E	50 43.350N 006 14.366E

MILGI 1A RNAV DEPARTURE

	CODING	DISPLAY
NG427	50 57 39.775N 005 56 18.096E	50 57.663N 005 56.301E
MILGI	51 11 49.200N 006 07 30.000E	51 11.820N 006 07.500E

MILGI 1B RNAV DEPARTURE

	CODING	DISPLAY
NG490	50 57 15.662N 006 10 34.951E	50 57.261N 006 10.582E
MILGI	51 11 49.200N 006 07 30.000E	51 11.820N 006 07.500E

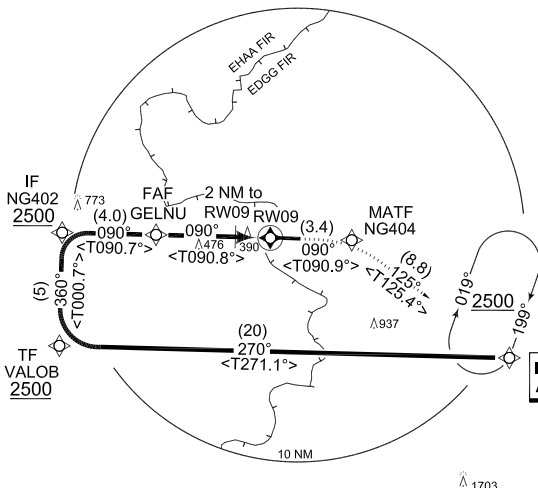
**RNAV (GNSS) RWY 09
GEILENKIRCHEN (ETNG)**

AD ELEV 292

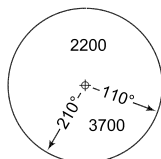
LANGEN RADAR		FRISBEE RADAR		FRISBEE TWR			ATIS	
337.850	128.500	244.550	123.725	378.575	140.075	120.050	278.200	
BEEK RADAR		APP COURSE	FAF ALT	Descent GR	DA/MDA	TDZE	ALS-Length	LDA
278.500	123.980	090°	2000	3.0°/5.2%	640	264	560 M	9514

- a) GNSS REQUIRED
- b) PROCEDURE LIMITED TO 220 KT IAS MAXIMUM
- c) BARO/VNAV NOT AUTHORIZED BELOW -15°C
- d) TIMING NOT AUTHORIZED FOR DEFINING MAPT

IAF ALESU
50°52.48'N
006°18.10'E



MSA ARP 25 NM

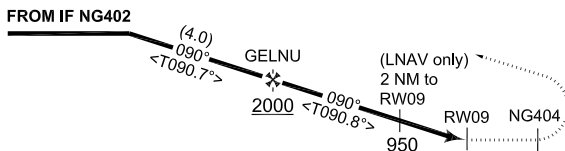


EMERG SAFE ALT 100 NM 4200

TA 5000 (FRG)
TA 3000 (NL)
TA 4500 (B)

MISSED APPROACH

Climb on course 090° inbound
NG404, turn right to ALESU.
Climb to 2500 ft.
NG404[M090]-ALESU[A2500]



					TCH 50	
DIST THR	5	4	3	2	1	
ALTITUDE	1900	1580	1260	950	630	

CATEGORY		A	B	C	D	E
MIPS	LNAV	640 - 1.2 376 (400-1.2/1.6)			640 - 1.2 376 (400-1.2/2.0)	
	LNAV / VNAV	640 - 1.2 376 (400-1.2/1.6)			640 - 1.2 376 (400-1.2/2.0)	

RNAV (GNSS) RWY 09

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

RWY 09 from ALESU APPROACH RNAV (GNSS)

	CODING	DISPLAY
ALESU (IAF)	50 52 28.577 N 006 18 06.194 E	50 52.476 N 006 18.103 E
VALOB (TF)	50 52 47.985 N 005 46 31.254 E	50 52.800 N 005 46.521 E
NG402 (IF)	50 57 47.620 N 005 46 37.206 E	50 57.794 N 005 46.620 E
GELNU (FAF)	50 57 44.438 N 005 52 56.779 E	50 57.741 N 005 52.946 E
RW09 (MAPt)	50 57 39.692 N 006 01 19.907 E	50 57.662 N 006 01.332 E
NG404 (MATF)	50 57 36.296 N 006 06 44.374 E	50 57.605 N 006 06.740 E
ALESU (MAHF)	50 52 28.577 N 006 18 06.194 E	50 52.476 N 006 18.103 E

Threshold Coordinates

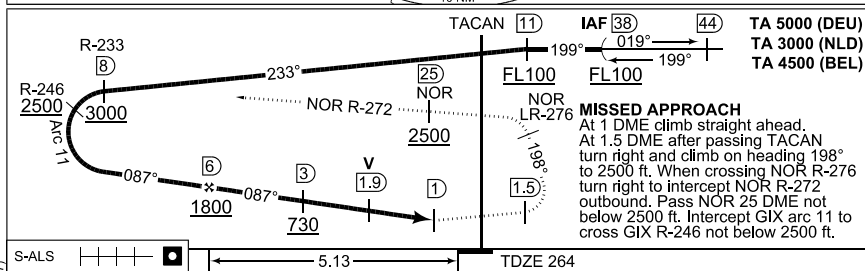
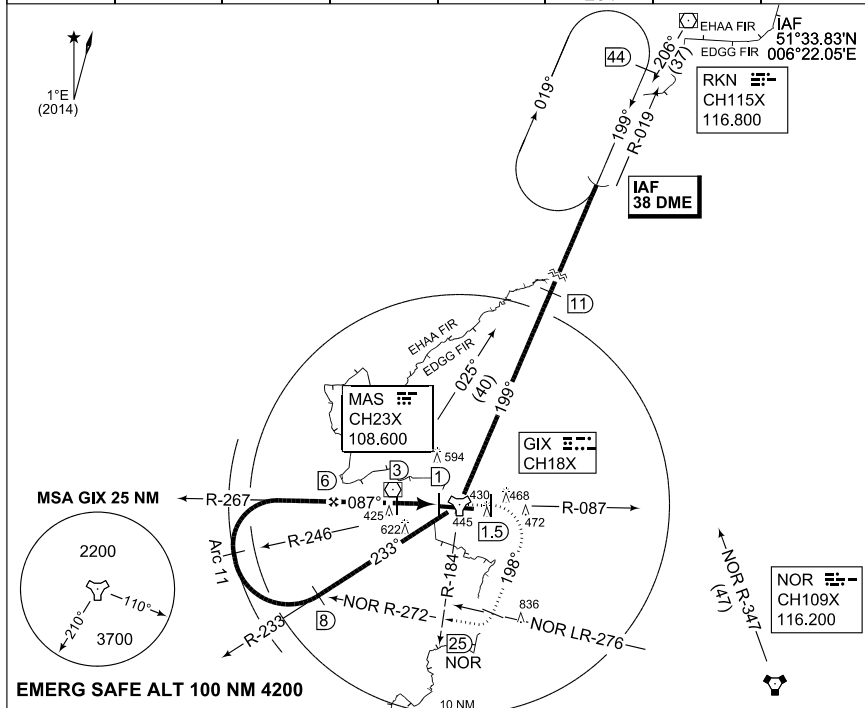
RWY 09	50 57 39.692 N 006 01 19.907 E	50 57.662 N 006 01.332 E
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TERPS INSTRUMENT APPROACH CHART

AD ELEV 292

TACAN RWY 09
GEILENKIRCHEN (ETNG)

LANGEN RADAR		FRISBEE RADAR		FRISBEE TWR			BEEK RADAR		ATIS
337.850	128.500	244.550	123.725	378.575	140.075	120.050	278.500	123.980	278.200
TACAN	APP COURSE	FAF ALT		MDA	TDZE		ALS-LENGTH	LDA	
GIX CH18X	087°	1800		640	264		560 M		9514



S-ALS		5.13	TDZE 264		
CATEGORY	A	B	C	D	E
S-TACAN 09	640 - 1.2 376 (400-1.2/1.6)	640 - 1.2 376 (400-1.2/1.6)	640 - 1.2 376 (400-1.2/1.6)	640 - 1.6 376 (400-1.6/2.0)	640 - 1.6 376 (400-1.6/2.0)
PAR 09	464 - 0.8 200 (200-0.8) GS 3.0°	464 - 0.8 200 (200-0.8) GS 3.0°	464 - 1.2 200 (200-1.2) GS 3.0°	464 - 1.2 200 (200-1.2) GS 3.0°	464 - 1.2 200 (200-1.2) GS 3.0°

TACAN RWY 09

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

PANS-OPS INSTRUMENT APPROACH CHART

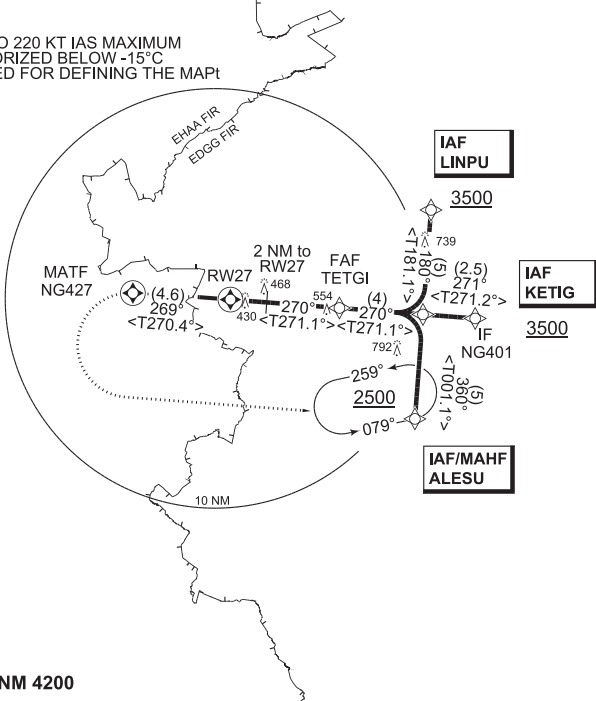
AD ELEV 292

RNAV (GNSS) RWY 27
GEILENKIRCHEN (ETNG)

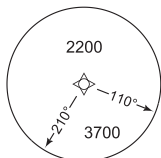
LANGEN RADAR		FRISBEE RADAR		FRISBEE TWR			BEEK RADAR		ATIS
337.850	128.500	244.550	123.725	378.575	140.075	120.050	278.500	123.980	278.200
APP COURSE 270°		FAF ALT 2000	Descent GR 3.0°/5.2%	MDA see CAT		TDZE 290	ALS-LENGTH 900 M	LDA 9518	

NOTE:

- GNSS REQUIRED
- PROCEDURE LIMITED TO 220 KT IAS MAXIMUM
- BARO/VNAV NOT AUTHORIZED BELOW -15°C
- TIMING NOT AUTHORIZED FOR DEFINING THE MAP



MSA ETNG 25 NM

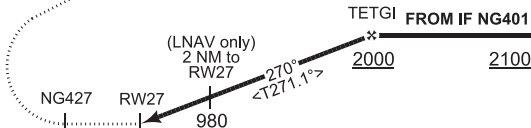


EMERG SAFE ALT 100 NM 4200

MISSED APPROACH

Climb on course 269° inbound
NG427, turn left direct to
ALESU. Climb to 2500 ft.
NG427[L]-ALESU[A2500]

TA 5000 (DEU)
TA 3000 (NLD)
TA 4500 (BEL)



DISP THR	1	2	3	4	5
ALTITUDE	660	980	1290	1610	1930

TDZE 290

5.2

CAT I

TCH 50

CATEGORY	A	B	C	D	E
LNAV	720 - 0.8 430 (500-0.8/1.6)	720 - 0.8 430 (500-0.8/1.6)	720 - 1.2 430 (500-1.2/2.0)	720 - 1.6 430 (500-1.6/2.4)	
LNAV / VNAV	680 - 0.8 390 (400-0.8/1.6)	680 - 0.8 390 (400-0.8/1.6)	680 - 1.2 390 (400-1.2/1.6)	680 - 1.2 390 (400-1.2/2.0)	

RNAV (GNSS) RWY 27

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

RWY 27 from LINPU APPROACH RNAV (GNSS)

	CODING	DISPLAY
LINPU (IAF)	51 02 27.771 N 006 18 25.073 E	51 02.463 N 006 18.418 E
NG401 (IF)	50 57 28.176 N 006 18 15.617 E	50 57.470 N 006 18.260 E
TETGI (FAF)	50 57 32.769 N 006 11 56.115 E	50 57.546 N 006 11.935 E
RW27 (MAPt)	50 57 38.247 N 006 03 40.884 E	50 57.637 N 006 03.681 E
NG427 (MATF)	50 57 39.775 N 005 56 18.096 E	50 57.663 N 005 56.302 E
ALESU (MAHF)	50 52 28.577 N 006 18 06.194 E	50 52.476 N 006 18.103 E

RWY 27 from KETIG APPROACH RNAV (GNSS)

	CODING	DISPLAY
KETIG (IAF)	50 57 25.131 N 006 22 12.795 E	50 57.419 N 006 22.213 E
NG401 (IF)	50 57 28.176 N 006 18 15.617 E	50 57.470 N 006 18.260 E
TETGI (FAF)	50 57 32.769 N 006 11 56.115 E	50 57.546 N 006 11.935 E
RW27 (MAPt)	50 57 38.247 N 006 03 40.884 E	50 57.637 N 006 03.681 E
NG427 (MATF)	50 57 39.775 N 005 56 18.096 E	50 57.663 N 005 56.302 E
ALESU (MAHF)	50 52 28.577 N 006 18 06.194 E	50 52.476 N 006 18.103 E

RWY 27 from ALESU APPROACH RNAV (GNSS)

	CODING	DISPLAY
ALESU (IAF)	50 52 28.577 N 006 18 06.194 E	50 52.476 N 006 18.103 E
NG401 (IF)	50 57 28.176 N 006 18 15.617 E	50 57.470 N 006 18.260 E
TETGI (FAF)	50 57 32.769 N 006 11 56.115 E	50 57.546 N 006 11.935 E
RW27 (MAPt)	50 57 38.247 N 006 03 40.884 E	50 57.637 N 006 03.681 E
NG427 (MATF)	50 57 39.775 N 005 56 18.096 E	50 57.663 N 005 56.302 E
ALESU (MAHF)	50 52 28.577 N 006 18 06.194 E	50 52.476 N 006 18.103 E

Threshold Coordinates

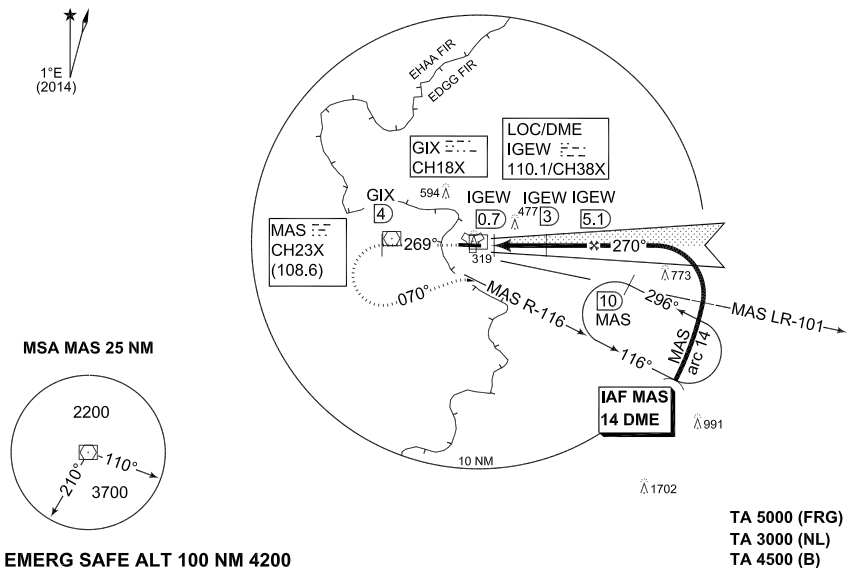
RW27	50 57 38.247 N 006 03 40.884 E	50 57.637 N 006 03.681 E
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**ILS Y or LOC RWY 27
GEILENKIRCHEN (ETNG)**

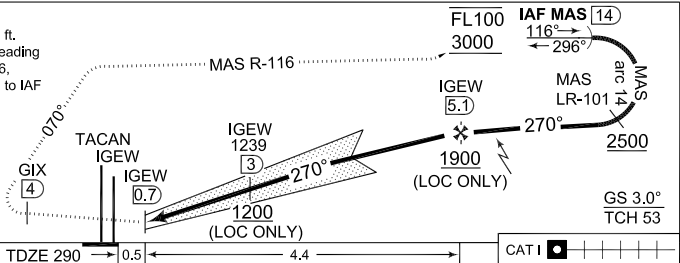
NOTE:

- a) DME REQUIRED
- b) PROCEDURE LIMITED TO 220KT IAS MAXIMUM
- c) CIRCLING NOT AUTHORIZED S OF RWY 09/27
- d) TIMING NOT AUTHORIZED FOR DEFINING MAPt

IAF
50°52.04'N
006°17.39'E



Climb on track 269° to 2500 ft.
At GIX 4 DME turn left on heading
070° to intercept MAS R-116,
climb to 3000ft and proceed to IAF
or inbound holding.



CATEGORY	A	B	C	D	E
ILS 27	490 - 0.8/550 200 (200-0.8/1.2)				505 - 0.8/550 215 (300-0.8/1.6)
LOC 27	710 - 0.8 420 (500-0.8/1.6)		710 - 1.2 420 (500-1.2/2.0)		710 - 1.6 420 (500-1.6/2.4)
CIRCLING	780 - 1.6/488 (500-1.6)	890 - 1.6/598 (600-1.6)	1270 - 4.8/978 (1000-4.8)		1390 - 4.8 1098 (1100-4.8)

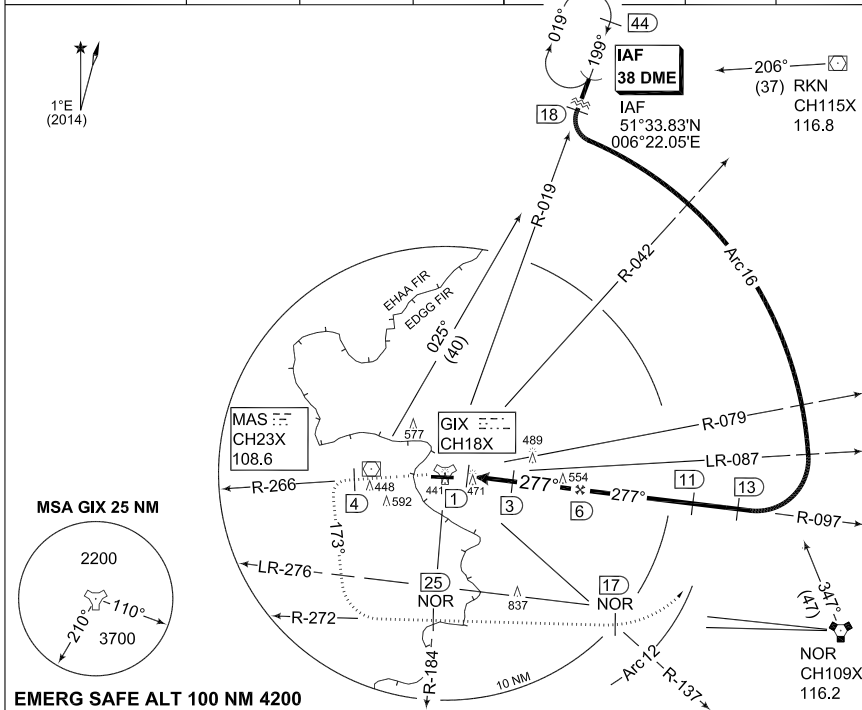
ILS Y or LOC RWY 27

50°57.65'N
006°02.51'E

GELENK|KIRCHEN (ETNG)

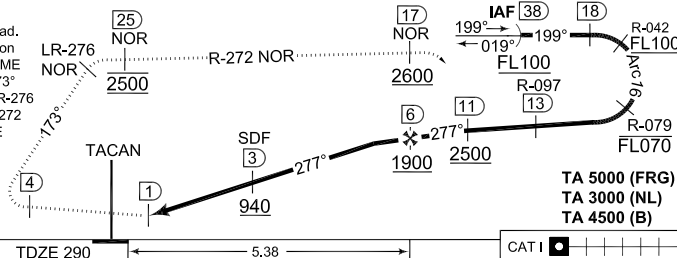
TACAN RWY 27
GEILENKIRCHEN (ETNG)

LANGEN RADAR		FRISBEE RADAR		FRISBEE TWR			BEEK RADAR		ATIS
337.850	128.500	244.550	123.725	378.575	140.075	120.050	278.500	123.980	278.200
TACAN		APP COURSE	FAF ALT	MDA			TDZE	ALS-Length	LDA
GIX CH18X		277°	1900	740			290	900 M	9518



MISSED APPROACH

At 1 DME climb straight ahead.
After passing TACAN climb on
R-266 GIX outbound. At 4 DME
turn left and climb on hdg 173°
to 2500 ft. When crossing LR-276
NOR turn left to Intercept R-272
NOR inbound. Pass 25 DME
NOR at 2500 ft and climb to
2600 ft or above.
At 17 DME NOR turn
left to Intercept arc
12 GIX not below 2600 ft.



CATEGORY	A	B	C	D	E
S-TACAN 27	740 - 0.8 450 (500-0.8/1.6)		740 - 1.2 450 (500-1.2/2.0)	740 - 1.6 450 (500-1.6/2.4)	
PAR 27	490 - 0.8 200 (200-0.8/1.2) GS 3.0°				

CHANGE: MSA (179/17)

Zentral: 20. Juli 2017

TACAN RWY 27

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)