

FRANKFURT-HAHN  
RWY 21STANDARD DEPARTURE  
ROUTES - INSTRUMENT (SID)  
RNAV (GPS, DME/DME, DME/DME/IRU)

General Remarks	
1.	WARNING! CLOSE-IN OBSTACLES. SEE OBSTACLE CHART.
2.	PDG 3.5% (215 ft/NM) until passing 1900 due to obstacles.
3.	1. RNAV-1 EQUIVALENT. 2. RADAR REQUIRED. 3. FOR NON GPS-EQUIPPED AIRCRAFTS DMEs FHH, NTM, LUX MUST BE OPERATIONAL. 4. FOR OPERATIONAL REGULATIONS REFER TO AIP ENR 1.5.
4.	PARTS OF IFR PROFILES WITHIN AIRSPACE CLASS E. WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.

Designator	Route			After Take-Off				Procedure Remarks/ Procedure Timesheet		
				Climb to		Contact				
NVO 3S	<b>NOERVENICH THREE SIERRA</b> Climb on track 211° to FH070; RT, direct to FH073; to FH 080; to NVO. Climb with 3.5% (215 ft/NM) until passing 1900. Cross FH070 at or above 5000. MAX IAS 230 KT until crossing FH073. MAX IAS 250 KT until crossing FH080.			5000 ft		Langen Radar 125.600 Contact Langen Radar immediately after take-off!		1. By ATC only. 2. Not to be used during activity of NLFS. 3. PDG 10.1% (615 ft/NM) until passing 5000, due to airspace structure. 4. Additional conventional first segment description: Climb on track 211° to 4000, direct to <u>FH070</u> .		
Recommended Path Terminator	Waypoint Identifier	Coordinates	Fly Over	(True Track°) Mag Track°	Distance (NM)	Turn Direction	Altitude (ft) / Flight Level	Speed Limit (kt IAS)	NAV-Specification	Remarks
CA	-	-	-	(T212.5) 211	-	-	A2100+	-	RNAV-1	-
DF	FH070	N 49 51 51.20 E 007 10 40.42	Y	-	-	-	A5000+	-	RNAV-1	-
DF	FH073	N 49 52 29.28 E 007 04 49.11	-	-	-	R	-	230-	RNAV-1	-
TF	FH080	N 49 59 00.10 E 007 02 15.78	-	(T345.8) 344	6.7	-	-	250-	RNAV-1	-
TF	NVO	N 50 49 21.64 E 006 38 11.54	-	(T343.2) 342	52.7	-	-	-	RNAV-1	-

Designator	Route			After Take-Off				Procedure Remarks/ Procedure Timesheet		
				Climb to		Contact				
OLIVI 3S	<b>OLIVI THREE SIERRA</b> Climb on track 211° to FH069; LT, direct to FH079; to OLIVI. Climb with 3.5% (215 ft/NM) until passing 1900. Cross FH069 at or above 4200. MAX IAS 210 KT until crossing FH079.			5000 ft		Langen Radar 125.600 Contact Langen Radar immediately after take-off!		1. By ATC only. 2. Non-Jet ACFT up to 5.7t MTOW only. 3. Climb with 10.0% (610 ft/NM) until passing 4200 due to airspace structure. 4. Additional conventional first segment description: Climb on track 211° to 4000, direct to <u>FH069</u> .		
Recommended Path Terminator	Waypoint Identifier	Coordinates	Fly Over	(True Track°) Mag Track°	Distance (NM)	Turn Direction	Altitude (ft) / Flight Level	Speed Limit (kt IAS)	NAV-Specification	Remarks
CA	-	-	-	(T212.5) 211	-	-	A2100+	-	RNAV-1	-
DF	FH069	N 49 52 41.27 E 007 11 31.52	Y	-	-	-	A4200+	-	RNAV-1	-
DF	FH079	N 49 50 13.86 E 007 13 02.13	-	-	-	L	-	210-	RNAV-1	-
TF	OLIVI	N 49 46 41.87 E 007 36 20.34	-	(T103.0) 102	15.5	-	-	-	RNAV-1	-