STANDARD DEPARTURE ROUTES – INSTRUMENT (SID)

DÜSSELDORF
RWY 23R

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
LMA 3L	**LIMA THREE LIMA** On runway track to 1.1 DME DUS or 600 ft, whichever is later; RT, on track 298° LMA to LMA (△). Cross 8.0 DME DUS at 4000 or above. **GPS/FMS RNAV:** DL 237[A600+; R] - DL 238 [A4000+] - LMA.	5000 ft	Langen Radar 133.775	1. PDG 6.7% (410 ft/NM) due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Only for flights to EDLN.
SONEB 1L	**SONEB ONE LIMA** On runway track to 1.0 DME DUS or 600 ft, whichever is later; RT, on R360 NOR to 49.0 DME NOR; RT, on track 007° to SONEB (△). Max. IAS 190 kt until established on R360 NOR. **GPS/FMS RNAV:** DL231[A600+; R] - DL233[K190-; L] - ERKUL[R] - SONEB.			1. After 49.0 DME NOR BRNAV equipment necessary. 2. Only for flights with RFL140 or above. Other flights proceed via MEVEL. Expect clearance to cross 10 NM prior SONEB at FL140 or above. If unable advise clearance Delivery upon start-up request.
MEVEL 6L	**MEVEL SIX LIMA** On runway track to 1.0 DME DUS or 600 ft, whichever is later; RT, on R360 NOR to 49.0 DME NOR; RT, on R242 OSN via LUSIS(△) to MEVEL(△). Max. IAS 190 kt until established on R360 NOR. **GPS/FMS RNAV:** DL231[A600+; R] - DL233[K190-; L] - ERKUL[R] - LUSIS - MEVEL.			Flights intending to proceed via Y850 to BASUM must be able to cross ARTER above FL 245. If unable or planning below FL 245, continue via L179 to OSN.
GMH 5L	**GERMINGHAUSEN FIVE LIMA** On track 231° DY to 4.5 DME DUS; LT, on R354 NOR to 20.6 DME NOR; LT, on R266 GMH to GMH (△). Climb with 7% (425 ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL240[L] - DL241[L] - GMH.			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Only for flights with RFL 140 or below. 3. Flights continuing on L603 commence RT when passing 4.0 DME GMH.
NOR 3U	**NÖRVENICH THREE UNIFORM** On track 231° DY to 4.5 DME DUS; LT, on R354 NOR to NOR (△). Climb with 7% (425 ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL240[L] - NOR.			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. For flights with RFL 90 and below. Flights with RFL 100 and above shall file via MODRU.
DODEN 3L	**DODEN THREE LIMA** On track 231° DY to 4.5 DME DUS; LT, on R354 NOR to 20.6 DME NOR; LT, on R266 GMH to 18.7 DME GMH; RT, on track 143° to BETZO(△); RT, on track 148° to DODEN(△). Climb with 7% (425ft/NM) or more until passing 3000. Cross 18.7 DME GMH at FL150 or above. Cross DODEN at FL250 or above. **GPS/FMS RNAV:** [A600+] - DL240[L] - DL241[L] - DL242 - ELBOV[F150+; R] - BETZO[R] - DODEN[F250+].			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. After 18.7 DME GMH BRNAV equipment necessary. 3. Only for jet flights with RFL 250 or above. Flights shall cross DODEN at FL 250 or above. Flights unable shall file SID KUMIK. Flights unable to cross ELBOV at FL 150 or above shall advise clearance Delivery upon start-up request.
NUDGO 1L	**NUDGO ONE LIMA** On track 231° DY to 4.5 DME DUS; LT, on R354 NOR to 20.6 DME NOR; LT, on R266 GMH to 10.0 DME GMH; LT, on track 062° via OTKAM(△) and KULIX(△) to NUDGO(△). Climb with 7% (425ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL240[L] - DL241[L] - DEGOM[L] - OTKAM - KULIX - NUDGO.			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Not available for flights into upper airspace. 3. After 10.0 DME GMH BRNAV equipment necessary.
NAPSI 3L	**NAPSI THREE LIMA** On runway track to 1.1 DME DUS or 600 ft, whichever is later; RT, on track 298° LMA to LMA (△); on track 335° LMA to NAPSI (△). Cross 8.0 DME DUS at 4000 or above. **GPS/FMS RNAV:** DL237[A600+; R] - DL238 [A4000+] - LMA[R] - NAPSI.			1. CDR 1 Fri 1600 (1500) – Mon 0800 (0700) Mon – Fri 2200 (2100) – 0700 (0600) 2. PDG 6.7% (410 ft/NM) due to airspace structure. If unable to comply, advise Delivery on start-up request.

Nur für Simulationszwecke zu verwenden !
Mit freundlicher Genehmigung der DFS
Deutsche Flugsicherung GmbH
für IVAO-DE.

(Sample: DL231 fly-over way point)

Remain on TWR-Frequency until passing altitude 2000 ft.

DÜSSELDORF
RWY 23R

STANDARD DEPARTURE ROUTES – INSTRUMENT (SID)

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
MODRU 6L	**MODRU SIX LIMA** On track 231° DY to 3.3 DME DUS; RT, on track 321° to UBORO(△); LT, on track 200° via NETEX (△) to MODRU(△). Max. IAS 250 kt until established on track 200°. Climb with 7% (425ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL247[R] - UBORO[L] - NETEX[K250-] - MODRU[F210+].	5000 ft	Langen Radar 133.775	1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Only for flights with RFL 210 and above. Flights have to be able to cross MODRU at FL 210 or above. If unable to comply, advise Delivery on start-up request. 3. After passing 3.3 DME DUS BRNAV equipment necessary.
NETEX 1L	**NETEX ONE LIMA** On runway track to 1.1 DME DUS or 600 ft, whichever is later; RT, on track 298° LMA to 13.4 DME DUS; LT, on track 241° LMA to NETEX(△). Cross 8.0 DME DUS at 4000 or above. **GPS/FMS RNAV:** DL237[A600+; R] - DL238[A4000+] - LMA[L] - NETEX.			1. PDG 6.7% (410ft/NM) due to airspace structure. If unable to comply advise Delivery on start-up request. 2. For flights with RFL from 100 to 200 or flights via Z282 DIBIR L179 (if available).
KUMIK 1L	**KUMIK ONE LIMA** On track 231° DY to 4.5 DME DUS; LT, on R354 NOR to 20.6 DME NOR; LT, on R266 GMH to 10.0 DME GMH; RT, on track 142° to KUMIK(△). Climb with 7% (425ft/NM) or more until passing 3000. Cross 10.0 DME GMH at FL150 or above. **GPS/FMS RNAV:** [A600+] - DL240[L] - DL241[L] - DEGOM[F150+; R] - KUMIK.			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. After 10.0 DME GMH BRNAV equipment necessary. 3. Only for flights with RFL 150 or above. 4. Normally not available for flights above FL250 via BOMBI, except Prop/Turbo Prop type aircraft. Flights unable to cross DEGOM at FL 150 or above shall advise clearance Delivery upon start-up request.
COL 1L	**COLA ONE LIMA** On track 231° DY to 4.5 DME DUS; LT, on R354 NOR to 20.6 DME NOR; LT, on R266 GMH to 32.0 DME GMH; RT, on R104 MHV to 20.3 DME DUS; RT, on R328 COL to COL (△). Climb with 7% (425ft/NM) or more until passing 3000. Cross 20.3 DME DUS at FL150 or above. **GPS/FMS RNAV:** [A600+] - DL240[L] - DL241[L] - DL244[R] - LIPMI[F150+; R] - COL.			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Flights unable to cross LIPMI at FL 150 or above shall advise clearance Delivery upon start-up request.

(Sample: UBORO fly-over way point)

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Mit freundlicher Genehmigung der DFS
Deutsche Flugsicherung GmbH
für IVAO-DE.

Remain on TWR-Frequency until passing altitude 2000 ft.

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STANDARD DEPARTURE CHART - INSTRUMENT (SID)

TRANSITION ALTITUDE 5000
VAR 0°

ATIS	123.775	TOWER	118.300
	115.150 (DUS)	LANGEN RADAR	133.775
DELIVERY	121.775		128.550
GROUND	121.900		

DÜSSELDORF RWY 23R

Correction: Departures via SONEB established, via RKN withdrawn.