

DÜSSELDORF
RWY 23R

STANDARD DEPARTURE
ROUTES – INSTRUMENT
(SID)

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
MODRU 8L	MODRU EIGHT LIMA On track 230° DY to 3.3 DME DUS; RT, on track 321° to UBORO(Δ); LT, on track 200° via NETEX (Δ) to MODRU(Δ). Climb with 7% (425ft/NM) or more until passing 3000. GPS/FMS RNAV: [A600+] - DL247[K210-; R] - <u>UBORO[L] - NETEX[K250-] - MODRU[F210+]</u> .	5000 ft	Langen Radar 128.500	<ol style="list-style-type: none"> 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. 4. MAX IAS 210 KT until established on track 321°. 5. MAX IAS 250 KT until established on track 200°.
NETEX 2L	NETEX TWO LIMA On runway track to 1.1 DME DUS or 600 ft, whichever is later; RT, on track 297° LMA to 13.4 DME DUS; LT, on track 240° LMA to NETEX(Δ). Cross 8.0 DME DUS at 4000 or above. GPS/FMS RNAV: DL237[A600+; R] - DL238[A4000+] - LMA[L] - NETEX.			<ol style="list-style-type: none"> 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 3L	KUMIK THREE LIMA On track 230° 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(Δ). 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] - ELBAL - DEGOM[F150+; R] - KUMIK.		Langen Radar 133.775	<ol style="list-style-type: none"> 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 BOMB1, 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 2L	COLA TWO LIMA On track 230° 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 (Δ). 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.			<ol style="list-style-type: none"> 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)

Remain on TWR-Frequency until passing altitude 2000 ft.