STANDARD DEPARTURE ROUTES – INSTRUMENT (SID)

DÜSSELDORF
RWY 05R

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
LMA 8Z	**LIMA EIGHT ZULU** On R 055 DUS to 6.0 DME DUS; LT, on track 262° LMA to LMA (△). Climb with 7% (425 ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL050[R] - DL051[L] - DL052 - LMA.	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 to EDLN.
SONEB 1Z	**SONEB ONE ZULU** On R055 DUS to 6.0 DME DUS; LT, on track 009° to 13.5 DME DUS; LT, on R170 RKN to 25.8 DME RKN; LT, on track 346° to SONEB (△). Climb with 7% (425ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL050[R] - DL053[L] - NIKOG[L] - LUSIS[L] - SONEB.			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. After 25.8 DME RKN BRNAV equipment necessary. 3. 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 5Z	**MEVEL FIVE ZULU** On R055 DUS to 6.0 DME DUS; LT, on track 009° to 13.5 DME DUS; LT, on R170 RKN to 25.8 DME RKN; RT, on R242 OSN to MEVEL(△). Climb with 7% (425ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL050[R] - DL053[L] - NIKOG[L] - LUSIS[R] - MEVEL.			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Flights intending to proceed via Y850 to BASUM must be able to cross ARTER above FL245. If unable or planning below FL245, continue via L179 to OSN.
GMH 2Z	**GERMINGHAUSEN TWO ZULU** On R055 DUS to 6.4 DME DUS; RT, on R279 BAM to BAM(△); on R097 BAM to 6.6 DME BAM; RT, on R294 GMH to GMH(△). **GPS/FMS RNAV:** [A600+] - DL050[R] - DL058[R] - BAM[L] - ANAVI[R] - GMH.			Only for flights with RFL 140 or below.
NOR 1Z	**NÖRVENICH ONE ZULU** On R055 DUS to 6.4 DME DUS; RT, on R279 BAM inbound BAM; at 3.5 DME BAM RT, on R212 BAM to NOR (△). **GPS/FMS RNAV:** [A600+] - DL050[R] - DL058[R] - BAM[R] - NOR.			For flights with RFL 90 and below. Flights with RFL 100 and above shall file via MODRU.
DODEN 3Z	**DODEN THREE ZULU** On R055 DUS to 6.4 DME DUS; RT, on R279 BAM to BAM(△); RT, on R129 BAM to 14.6 DME BAM; RT, on track 143° to BETZO(△); RT, on track 148° to DODEN(△). Cross 14.6 DME BAM at FL150 or above. Cross DODEN at FL250 or above. **GPS/FMS RNAV:** [A600+] - DL050[R] - DL058[R] - BAM[R] - ELBOV[F150+; R] - BETZO[R] - DODEN[F250+].			1. After 14.6 DME BAM BRNAV equipment necessary. 2. 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 1Z	**NUDGO ONE ZULU** On R055 DUS to 6.4 DME DUS; RT, on R279 BAM to BAM(△); on R097 BAM to 6.6 DME BAM; RT, on R294 GMH to 6.1 DME GMH; LT, on track 062° via KULIX(△) to NUDGO(△). **GPS/FMS RNAV:** [A600+] - DL050[R] - DL058[R] - BAM[L] - ANAVI[R] - OTKAM[L] - KULIX - NUDGO.			1. Not available for flights into upper airspace. 2. After 6.1 DME GMH BRNAV equipment necessary.
NAPSI 4Z	**NAPSI FOUR ZULU** On R055 DUS to 6.0 DME DUS; LT, on track 009° to 12.7 DME DUS; LT, on track 302° via VALSU(△) to NAPSI(△). Climb with 7% (425ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL050[R] - DL053[L] - NIKOG[L] - VALSU - NAPSI.			1. CDR 1 Fri 1600 (1500) – Mon 0800 (0700) Mon – Fri 2200 (2100) – 0700 (0600) 2. PDG due to airspace structure. If unable to comply advise Delivery on start-up request. 3. After 12.7 DME DUS BRNAV equipment necessary.

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

(Sample: DL051 fly-over way point)

Remain on TWR-Frequency until passing altitude 2000 ft.

DÜSSELDORF
RWY 05R

STANDARD DEPARTURE ROUTES – INSTRUMENT (SID)

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
MODRU 4Z	**MODRU FOUR ZULU** On R055 DUS to 6.0 DME DUS; LT, on track 009° to 12.7 DME DUS; LT, on track 291° to ORSOV (△); LT, on track 243° to VEBAK (△); LT, on track 200° via NETEX (△) to MODRU(△). Climb with 7% (425ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL050[R] - DL053[L] - NIKOG[L] - ORSOV[L] - VEBAK[L] - NETEX - 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 12.7 DME DUS BRNAV equipment necessary.
NETEX 1Z	**NETEX ONE ZULU** On R055 DUS to 6.0 DME DUS; LT, on track 009° to 12.7 DME DUS; LT, on track 291° to ORSOV (△); LT, on track 243° to VEBAK (△); LT, on track 200° to NETEX (△). Climb with 7% (425ft/NM) or more until passing 3000. **GPS/FMS RNAV:** [A600+] - DL050[R] - DL053[L] - NIKOG[L] - ORSOV[L] - VEBAK[L] - NETEX.			1. PDG 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). 3. After 12.7 DME DUS BRNAV equipment necessary.
KUMIK 1Z	**KUMIK ONE ZULU** On R055 DUS to 6.4 DME DUS; RT, on R279 BAM to BAM(△); on R097 BAM to 6.6 DME BAM; RT, on track 129° to DEGOM(△) ; RT, on track 142° to KUMIK (△). Cross DEGOM at FL150 or above. **GPS/FMS RNAV:** [A600+] - DL050[R] - DL058[R] - BAM[L] - ANAVI[R] - DEGOM[F150+; R] - KUMIK.			1. Only for flights with RFL 150 or above. 2. After 6.6 DME BAM BRNAV equipment necessary. 3. 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 1Z	**COLA ONE ZULU** On R055 DUS to 6.4 DME DUS; RT, on R279 BAM inbound BAM; at 1.6 DME BAM RT, on R164 BAM to 11.4 DME BAM; LT, on R328 COL to COL(△). Cross 11.4 DME BAM at FL150 or above. **GPS/FMS RNAV:** [A600+] - DL050[R] - DL058[R] - BAM[R] - LIPMI[F150+; L] - COL.			Flights unable to cross LIPMI at FL 150 or above shall advise clearance Delivery upon start-up request.

Nur für Simulationszwecke zu verwenden !
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 05R

Correction: Departures via SONEB established, via RKN withdrawn.