

# NADP1

737800 95% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-3	0	0
2480	-3	88	0
5360	-3	90	-
5860	-	90	457
6360	-2,5	-	-
9470	-2,5	92	914
13330	-3,5	114	1148
14580	-3,5	121	1226
18520	-3	123	1653
19750	-3,5	129	1724
33140	-4,5	175	2448
$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 33140	0	0	0,077

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	T_05	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	T_05	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	T_05	MaxClimb	3000.	0.
4	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	209.	0.
5	Accelerate to 220 kt	ACC	0	T_01	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	T_01	MaxClimb	18520.	0.
7	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	229.	0.
8	Accelerate to 300 kt	ACC	0	T_00	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	22481 lbf	0 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
End	170. knots	170.8 knots	18224 lbf	2481 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
Gain	170. knots	170.8 knots	-4257 lbf	2481 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	18224 lbf	2481 m	328 ft	7.7°	2318 ft/min	-3. dB <sub>A</sub>
End	170. knots	174.6 knots	18409 lbf	5860 m	1828 ft	7.7°	2369 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	3.8 knots	185 lbf	3379 m	1500 ft	0.°	51 ft/min	0. dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	174.6 knots	18327 lbf	5860 m	1828 ft	7.22°	2223 ft/min	-3. dB <sub>A</sub>
End	170. knots	178.6 knots	18786 lbf	9471 m	3328 ft	7.22°	2273 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	4. knots	459 lbf	3611 m	1500 ft	0.°	50 ft/min	0.5 dB <sub>A</sub>

Segment 4 Accelerate to Flaps 1 Speed 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	178.6 knots	18786 lbf	9471 m	3328 ft	3.47°	1095 ft/min	-2.5 dB <sub>A</sub>
End	209. knots	222. knots	17957 lbf	13331 m	4095 ft	3.47°	1361 ft/min	-3.5 dB <sub>A</sub>
Gain	39. knots	43.4 knots	-829 lbf	3860 m	767 ft	0.°	266 ft/min	-1. dB <sub>A</sub>

Segment 5 Accelerate to 220 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	222. knots	17957 lbf	13331 m	4095 ft	3.55°	1392 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	234.7 knots	17735 lbf	14583 m	4350 ft	3.55°	1471 ft/min	-3.5 dB <sub>A</sub>
Gain	11. knots	12.7 knots	-222 lbf	1252 m	255 ft	0.°	79 ft/min	0. dB <sub>A</sub>

Segment 6 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.7 knots	17735 lbf	14583 m	4350 ft	6.19°	2562 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	239.8 knots	18163 lbf	18521 m	5751 ft	6.19°	2617 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	5.1 knots	428 lbf	3938 m	1401 ft	0.°	55 ft/min	0.5 dB <sub>A</sub>

Segment 7 Accelerate to Flaps UP Speed 50% Climb/50% Acceleration

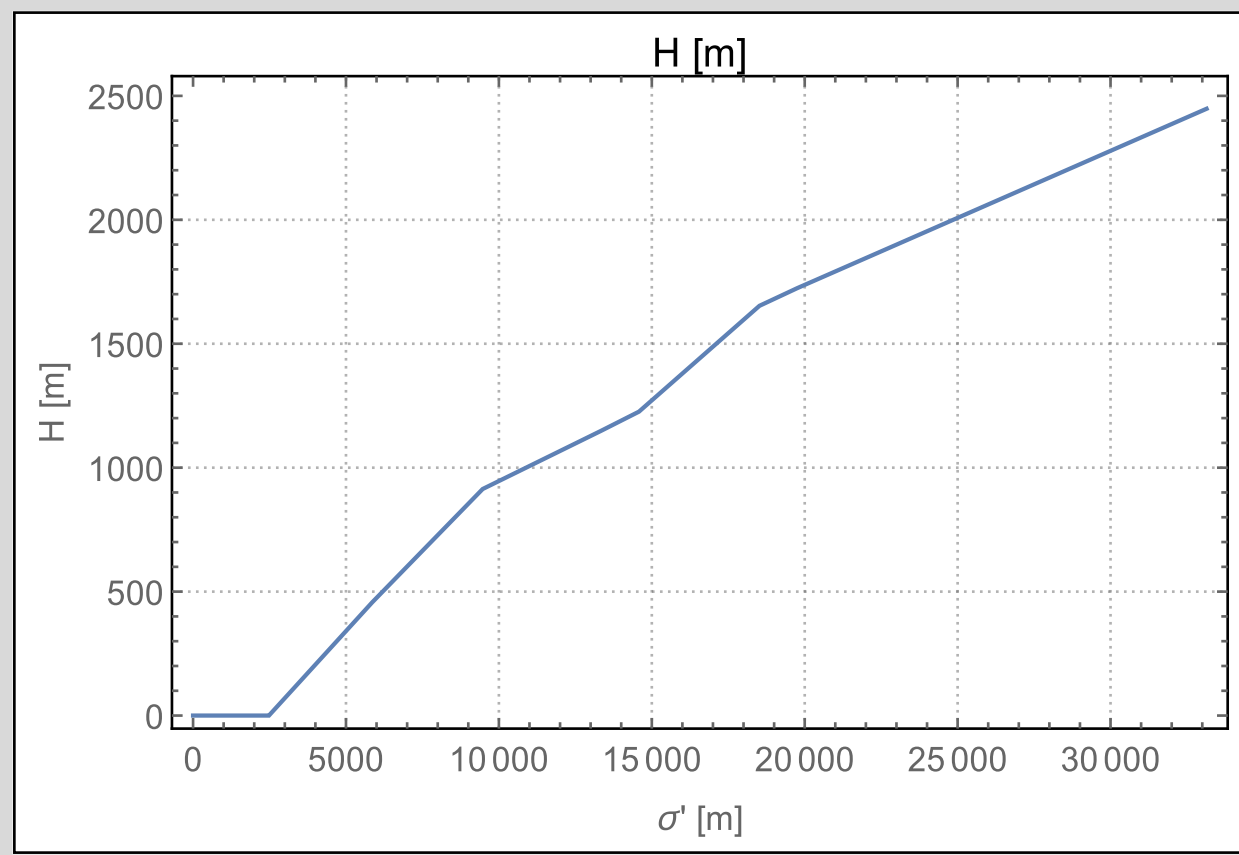
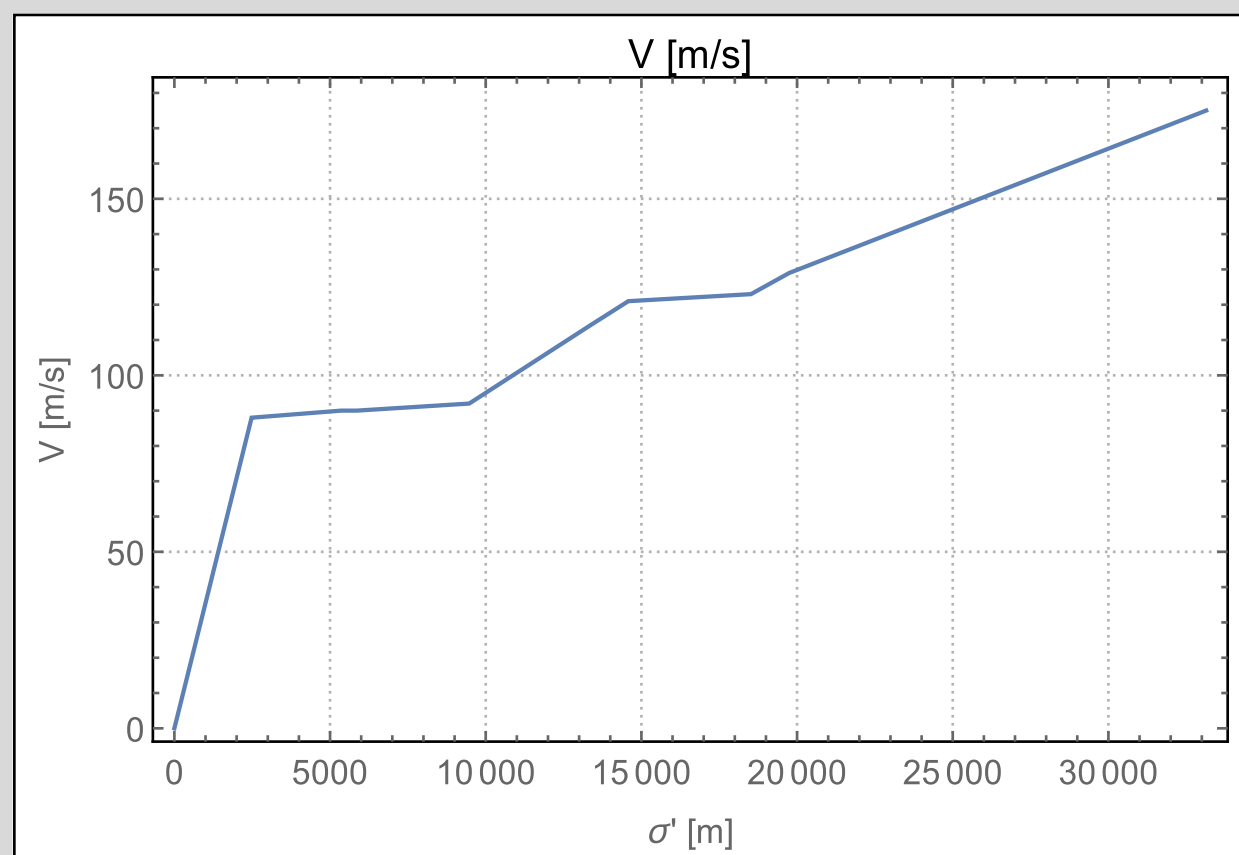
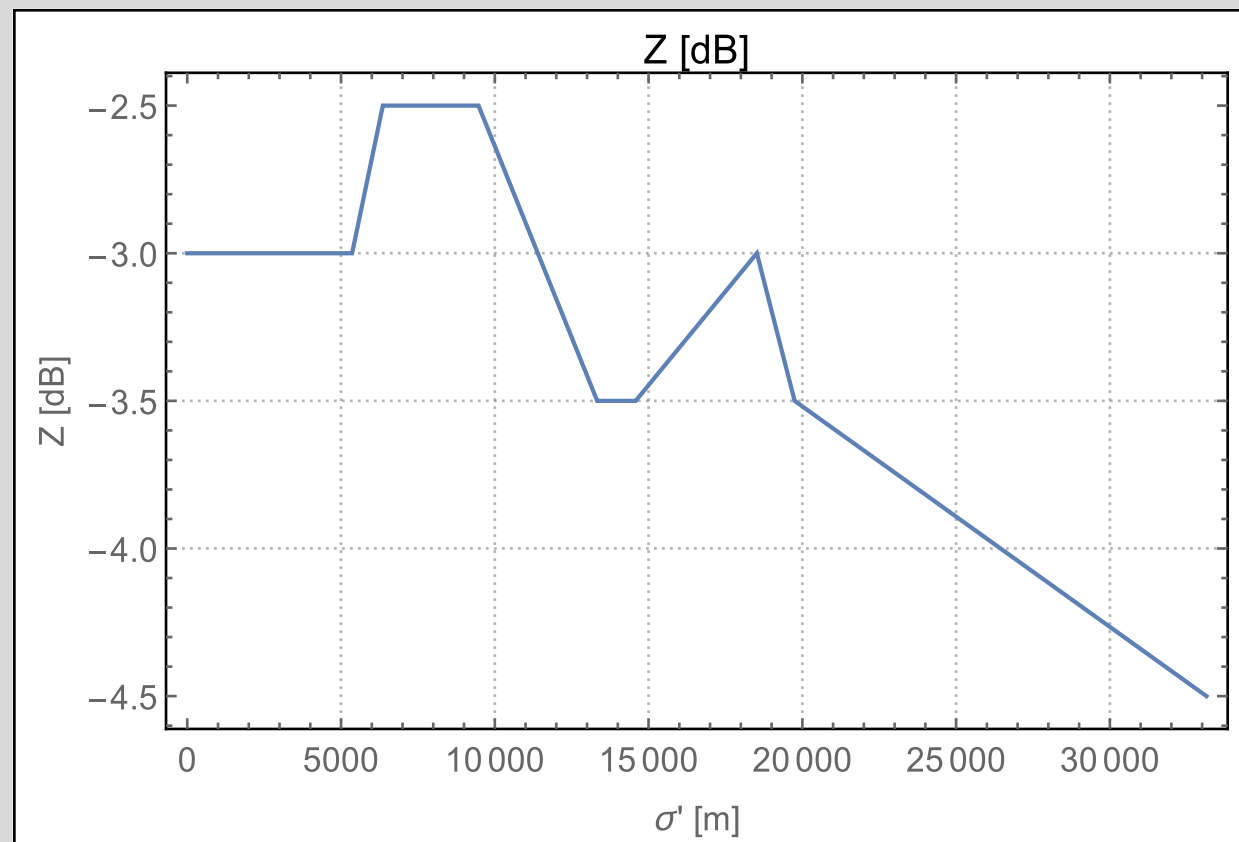
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	239.8 knots	18163 lbf	18521 m	5751 ft	3.31°	1401 ft/min	-3. dB <sub>A</sub>
End	229. knots	250.3 knots	17989 lbf	19748 m	5984 ft	3.31°	1464 ft/min	-3.5 dB <sub>A</sub>
Gain	9. knots	10.5 knots	-174 lbf	1227 m	233 ft	0.°	63 ft/min	-0.5 dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	250.3 knots	17989 lbf	19748 m	5984 ft	3.09°	1367 ft/min	-3.5 dB <sub>A</sub>
End	300. knots	340.3 knots	16779 lbf	33138 m	8358 ft	3.09°	1857 ft/min	-4.5 dB <sub>A</sub>
Gain	71. knots	90. knots	-1210 lbf	13390 m	2374 ft	0.°	490 ft/min	-1. dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	340.3 knots	16778 lbf	33138 m	8358 ft	4.39°	2637 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	380.1 knots	18908 lbf	60792 m	15328 ft	4.39°	2946 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	39.8 knots	2130 lbf	27654 m	6970 ft	0.°	309 ft/min	2. dB <sub>A</sub>



# NADP1

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Fixpunktprofil nach AzB

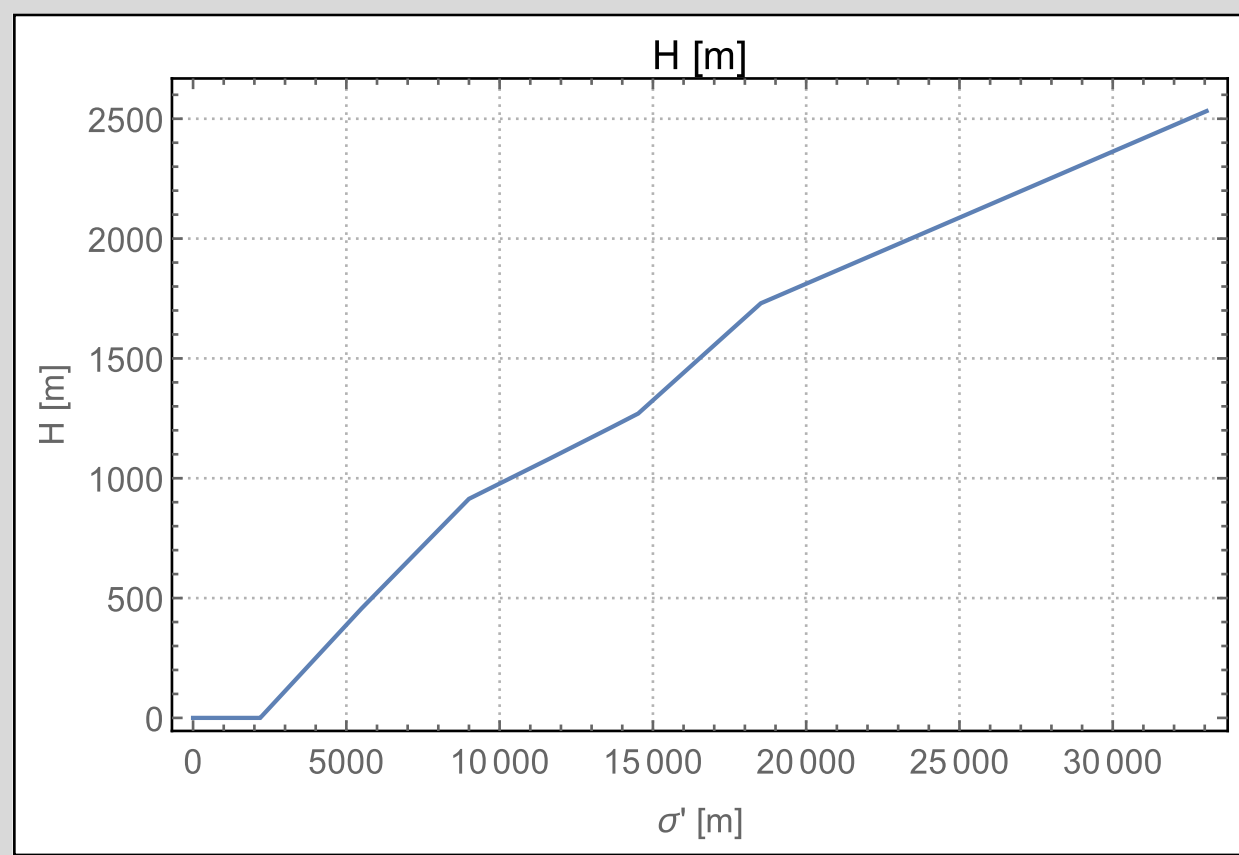
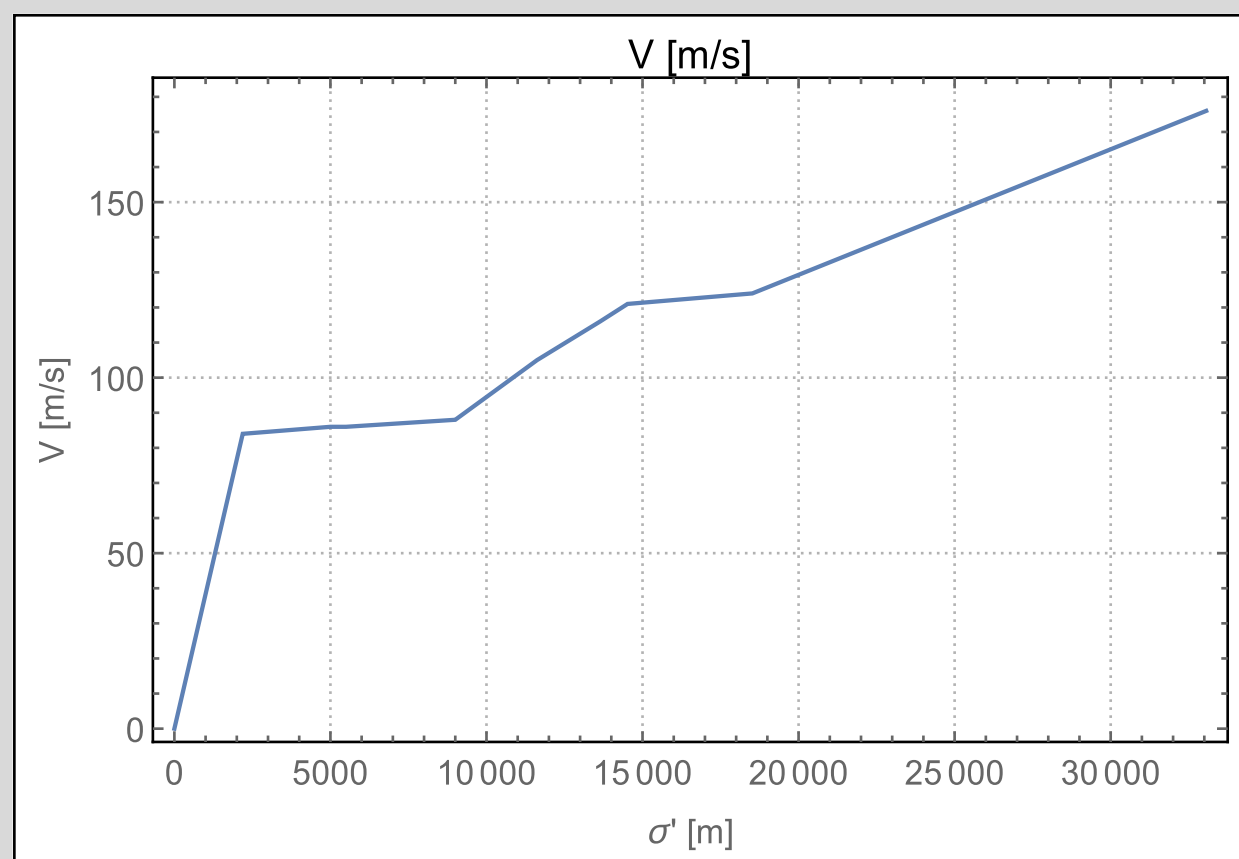
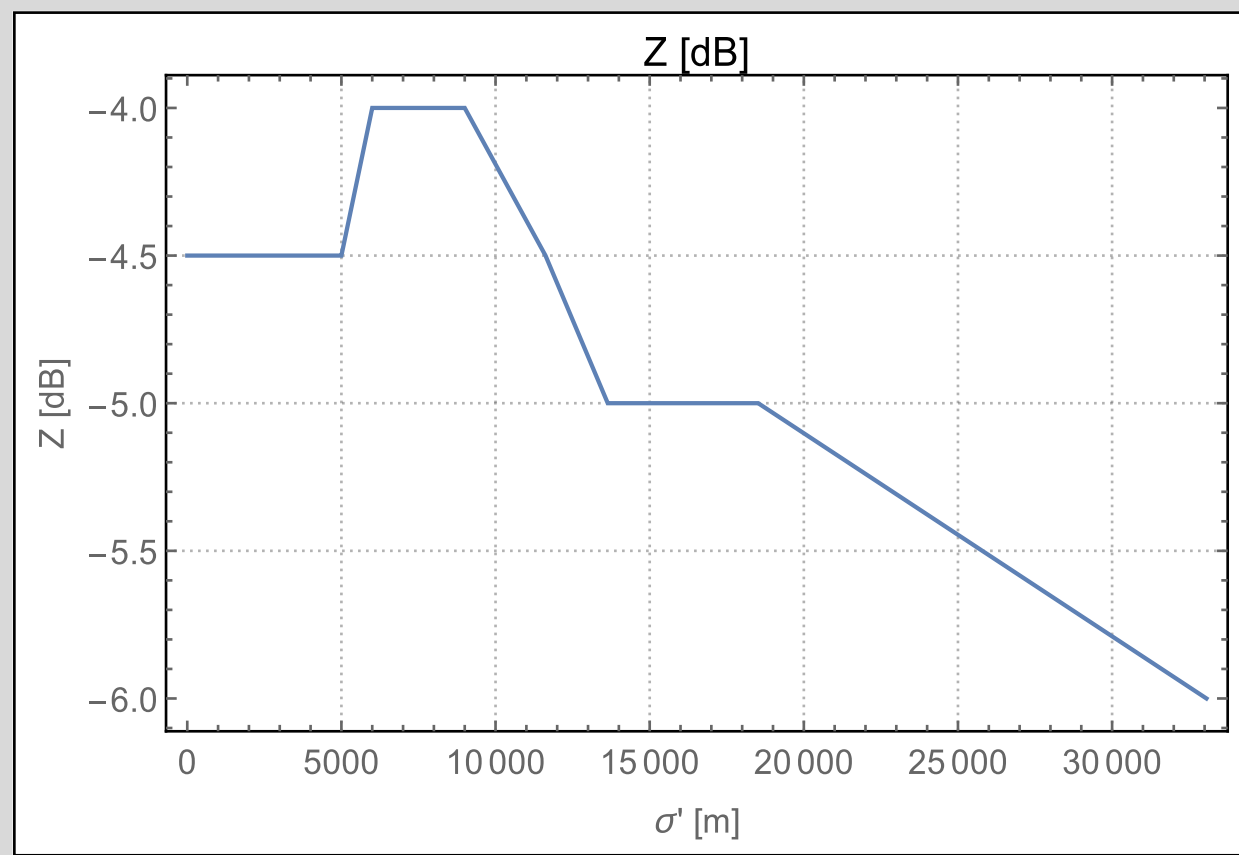
$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-4,5	0	0
2190	-4,5	84	0
5000	-4,5	86	-
5500	-	86	457
6000	-4	-	-
9000	-4	88	914
11620	-4,5	105	1081
13640	-5	116	1212
14520	-5	121	1270
18520	-5	124	1730
33060	-6	176	2532

$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 33060	0	0	0,078

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	T_05	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	T_05	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	T_05	MaxClimb	3000.	0.
4	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	192.	0.
5	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	212.	0.
6	Accelerate to 220 kt	ACC	0	T_00	MaxClimb	220.	0.
7	Climb to 10NM	CSD	0	T_00	MaxClimb	18520.	0.
8	Accelerate to 300 kt	ACC	0	T_00	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	20 233 lbf	0 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
End	162. knots	162.7 knots	16 582 lbf	2194 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
Gain	162. knots	162.7 knots	-3651 lbf	2194 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	16 582 lbf	2194 m	328 ft	7.89°	2263 ft/min	-4.5 dB <sub>A</sub>
End	162. knots	166.4 knots	16 749 lbf	5495 m	1828 ft	7.89°	2313 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	3.7 knots	167 lbf	3301 m	1500 ft	0.°	50 ft/min	0. dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	166.4 knots	16 749 lbf	5495 m	1828 ft	7.44°	2182 ft/min	-4.5 dB <sub>A</sub>
End	162. knots	170.2 knots	17 163 lbf	8996 m	3328 ft	7.44°	2231 ft/min	-4. dB <sub>A</sub>
Gain	0. knots	3.8 knots	414 lbf	3501 m	1500 ft	0.°	49 ft/min	0.5 dB <sub>A</sub>

Segment 4 Accelerate to Flaps 1 Speed 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	170.2 knots	17 163 lbf	8996 m	3328 ft	3.63°	1091 ft/min	-4. dB <sub>A</sub>
End	192. knots	203.3 knots	16 575 lbf	11 622 m	3874 ft	3.63°	1304 ft/min	-4.5 dB <sub>A</sub>
Gain	30. knots	33.1 knots	-588 lbf	2626 m	546 ft	0.°	213 ft/min	-0.5 dB <sub>A</sub>

Segment 5 Accelerate to Flaps UP Speed 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	192. knots	203.3 knots	16 575 lbf	11 622 m	3874 ft	3.72°	1336 ft/min	-4.5 dB <sub>A</sub>
End	212. knots	226. knots	16 201 lbf	13 645 m	4305 ft	3.72°	1485 ft/min	-5. dB <sub>A</sub>
Gain	20. knots	22.7 knots	-374 lbf	2023 m	431 ft	0.°	149 ft/min	-0.5 dB <sub>A</sub>

Segment 6 Accelerate to 220 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	226. knots	16 201 lbf	13 645 m	4305 ft	3.77°	1505 ft/min	-5. dB <sub>A</sub>
End	220. knots	235.2 knots	16 057 lbf	14 520 m	4494 ft	3.77°	1566 ft/min	-5. dB <sub>A</sub>
Gain	8. knots	9.2 knots	-144 lbf	875 m	189 ft	0.°	61 ft/min	0. dB <sub>A</sub>

Segment 7 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	235.2 knots	16 057 lbf	14 520 m	4494 ft	6.57°	2725 ft/min	-5. dB <sub>A</sub>
End	220. knots	240.6 knots	16 474 lbf	18 519 m	6005 ft	6.57°	2788 ft/min	-5. dB <sub>A</sub>
Gain	0. knots	5.4 knots	417 lbf	3999 m	1511 ft	0.°	63 ft/min	0. dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	240.6 knots	16 474 lbf	18 519 m	6005 ft	3.16°	1343 ft/min	-5. dB <sub>A</sub>
End	300. knots	341.7 knots	15 230 lbf	33 063 m	8636 ft	3.16°	1907 ft/min	-6. dB <sub>A</sub>
Gain	80. knots	101.1 knots	-1244 lbf	14 544 m	2631 ft	0.°	564 ft/min	-1. dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	341.7 knots	15 230 lbf	33 063 m	8636 ft	4.43°	2673 ft/min	-6. dB <sub>A</sub>
End	300. knots	380.1 knots	17 077 lbf	59 368 m	15 328 ft	4.43°	2973 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	38.4 knots	1847 lbf	26 305 m	6692 ft	0.°	300 ft/min	1.5 dB <sub>A</sub>

# NADP2-10

737800 95% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-3	0	0
2480	-3	88	0
4210	-3	89	-
4710	-	89	305
5210	-4	-	-
8110	-4	111	524
9210	-4	117	597
18500	-3	123	1639
19720	-3,5	129	1710
33070	-4,5	175	2432
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 33070	0	0	0,077

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	T_05	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	T_05	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	T_05	MaxClimb	209.	0.
4	Accelerate to 220 kt	ACC	0	T_01	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	T_01	MaxClimb	18520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	229.	0.
7	Accelerate to 300 kt	ACC	0	T_00	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	22481 lbf	0 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
End	170. knots	170.8 knots	18224 lbf	2481 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
Gain	170. knots	170.8 knots	-4257 lbf	2481 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	18224 lbf	2481 m	328 ft	7.79°	2345 ft/min	-3. dB <sub>A</sub>
End	170. knots	173.3 knots	18348 lbf	4709 m	1328 ft	7.79°	2379 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	2.5 knots	124 lbf	2228 m	1000 ft	0.°	34 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	173.3 knots	18174 lbf	4709 m	1328 ft	3.69°	1130 ft/min	-3. dB <sub>A</sub>
End	209. knots	215.3 knots	17331 lbf	8109 m	2047 ft	3.69°	1404 ft/min	-4. dB <sub>A</sub>
Gain	39. knots	42. knots	-843 lbf	3400 m	719 ft	0.°	274 ft/min	-1. dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	215.3 knots	17331 lbf	8109 m	2047 ft	3.78°	1438 ft/min	-4. dB <sub>A</sub>
End	220. knots	227.5 knots	17104 lbf	9213 m	2286 ft	3.78°	1519 ft/min	-4. dB <sub>A</sub>
Gain	11. knots	12.2 knots	-227 lbf	1104 m	239 ft	0.°	81 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.5 knots	17104 lbf	9213 m	2286 ft	6.4°	2568 ft/min	-4. dB <sub>A</sub>
End	220. knots	239.5 knots	18149 lbf	18498 m	5706 ft	6.4°	2704 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	12. knots	1045 lbf	9285 m	3420 ft	0.°	136 ft/min	1. dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

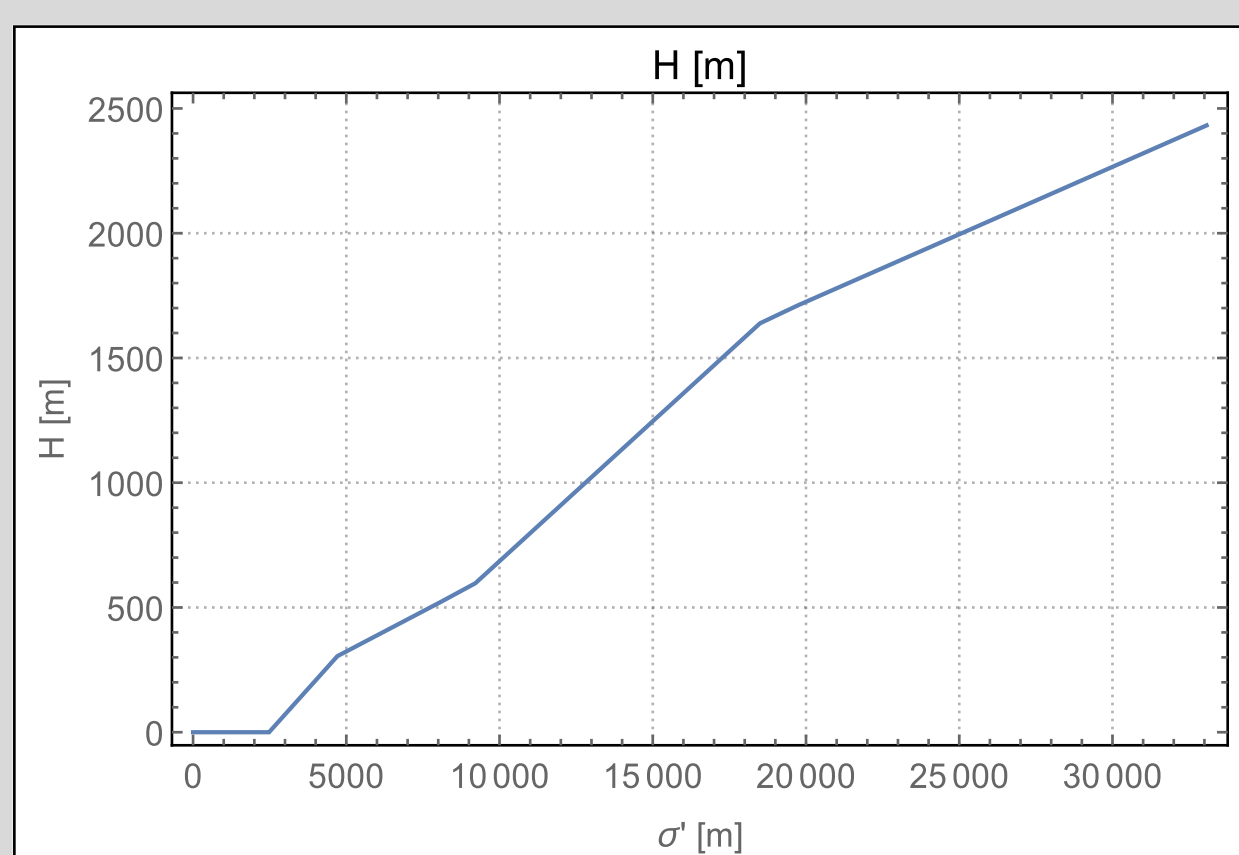
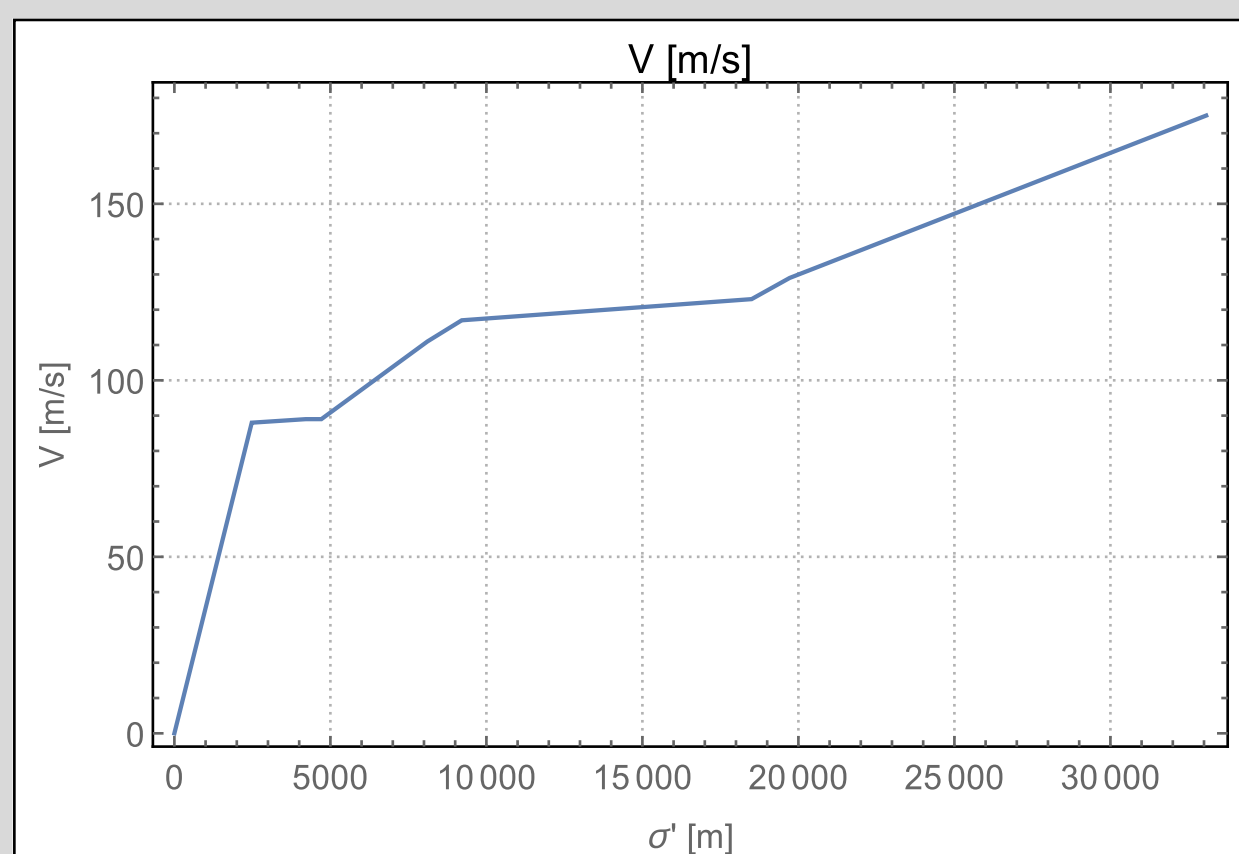
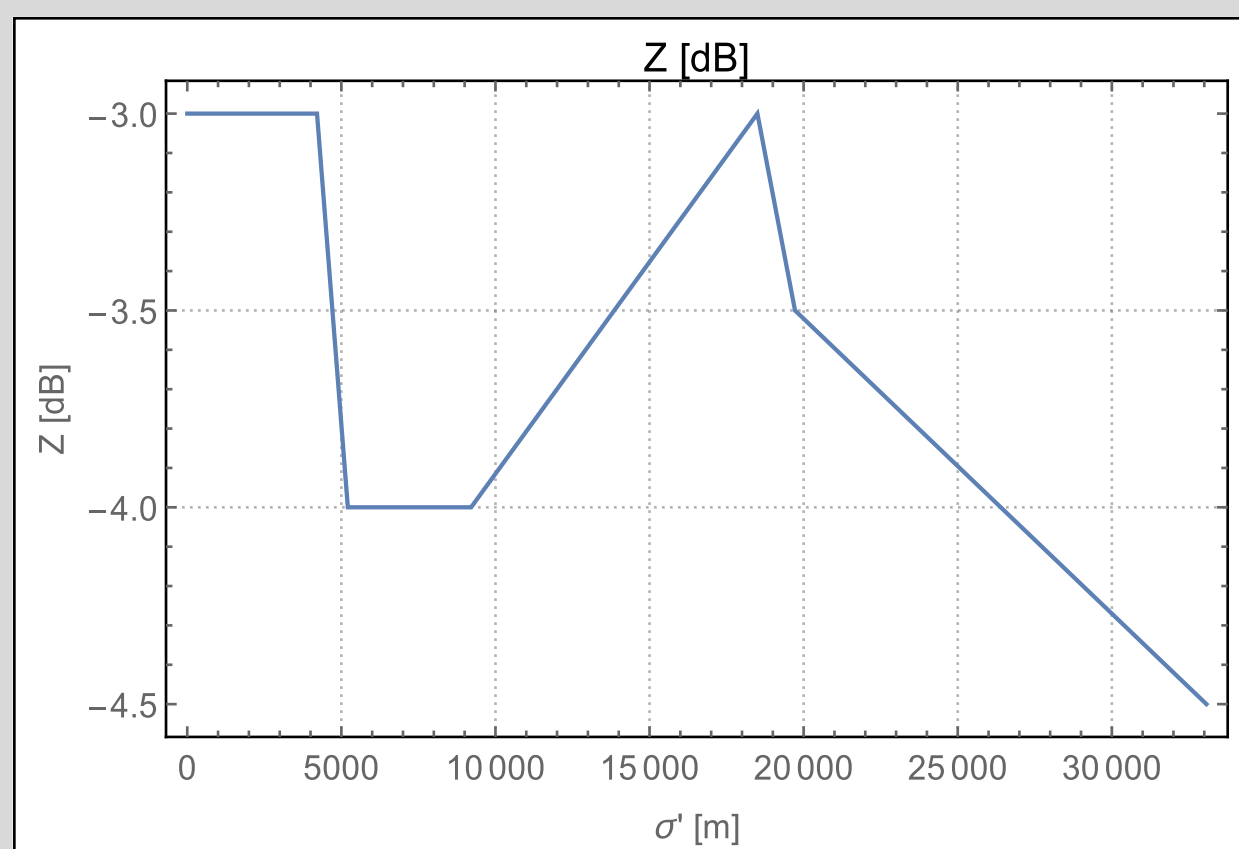
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	239.5 knots	18149 lbf	18498 m	5706 ft	3.31°	1400 ft/min	-3. dB <sub>A</sub>
End	229. knots	250.2 knots	17975 lbf	19721 m	5938 ft	3.31°	1463 ft/min	-3.5 dB <sub>A</sub>
Gain	9. knots	10.7 knots	-174 lbf	1223 m	232 ft	0.°	63 ft/min	-0.5 dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	250.2 knots	17975 lbf	19721 m	5938 ft	3.1°	1370 ft/min	-3.5 dB <sub>A</sub>
End	300. knots	339.9 knots	16763 lbf	33068 m	8308 ft	3.1°	1862 ft/min	-4.5 dB <sub>A</sub>
Gain	71. knots	89.7 knots	-1212 lbf	13347 m	2370 ft	0.°	492 ft/min	-1. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	339.9 knots	16763 lbf	33068 m	8308 ft	4.4°	2641 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	380.1 knots	18908 lbf	60902 m	15328 ft	4.4°	2953 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	40.2 knots	2145 lbf	27834 m	7020 ft	0.°	312 ft/min	2. dB <sub>A</sub>



# NADP2-10

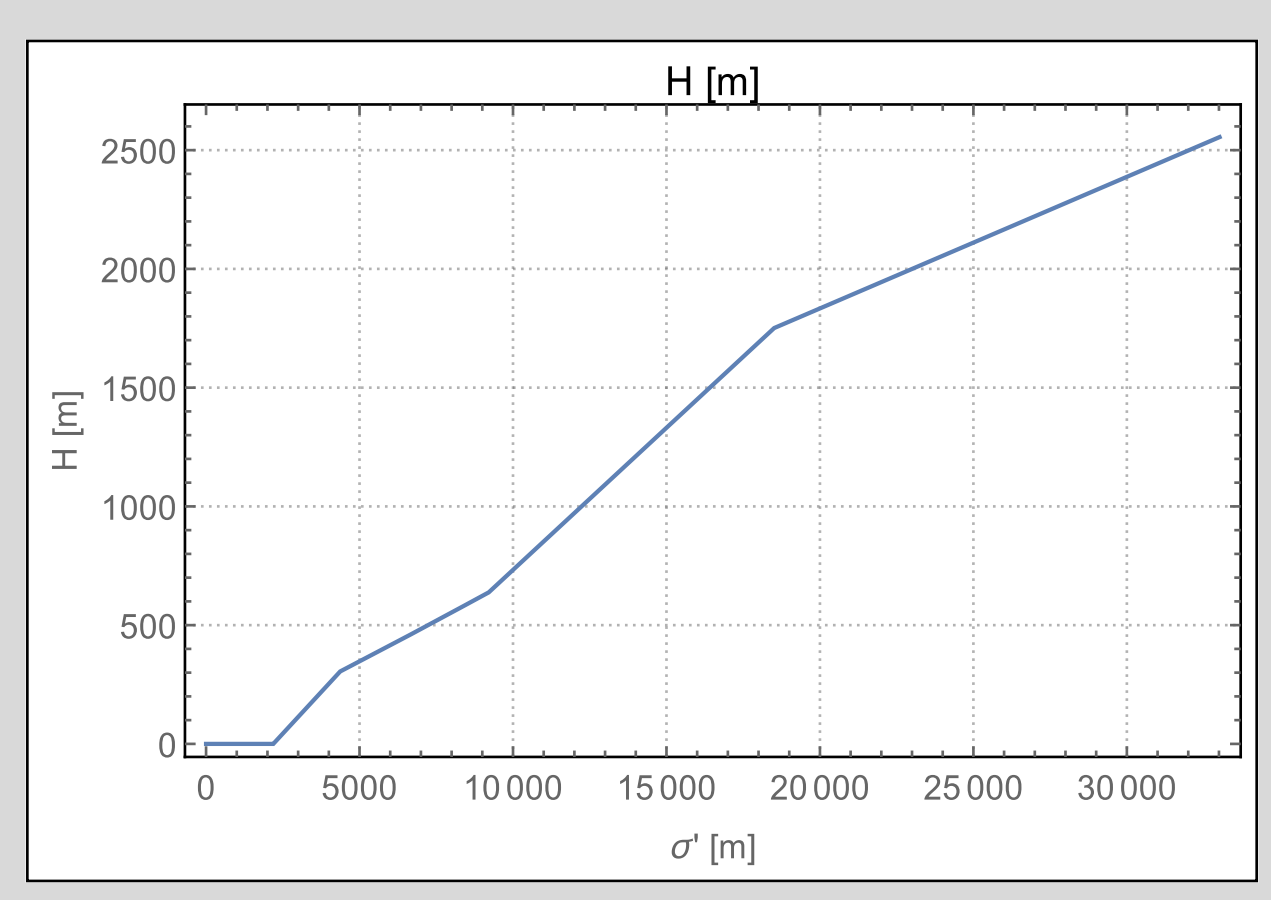
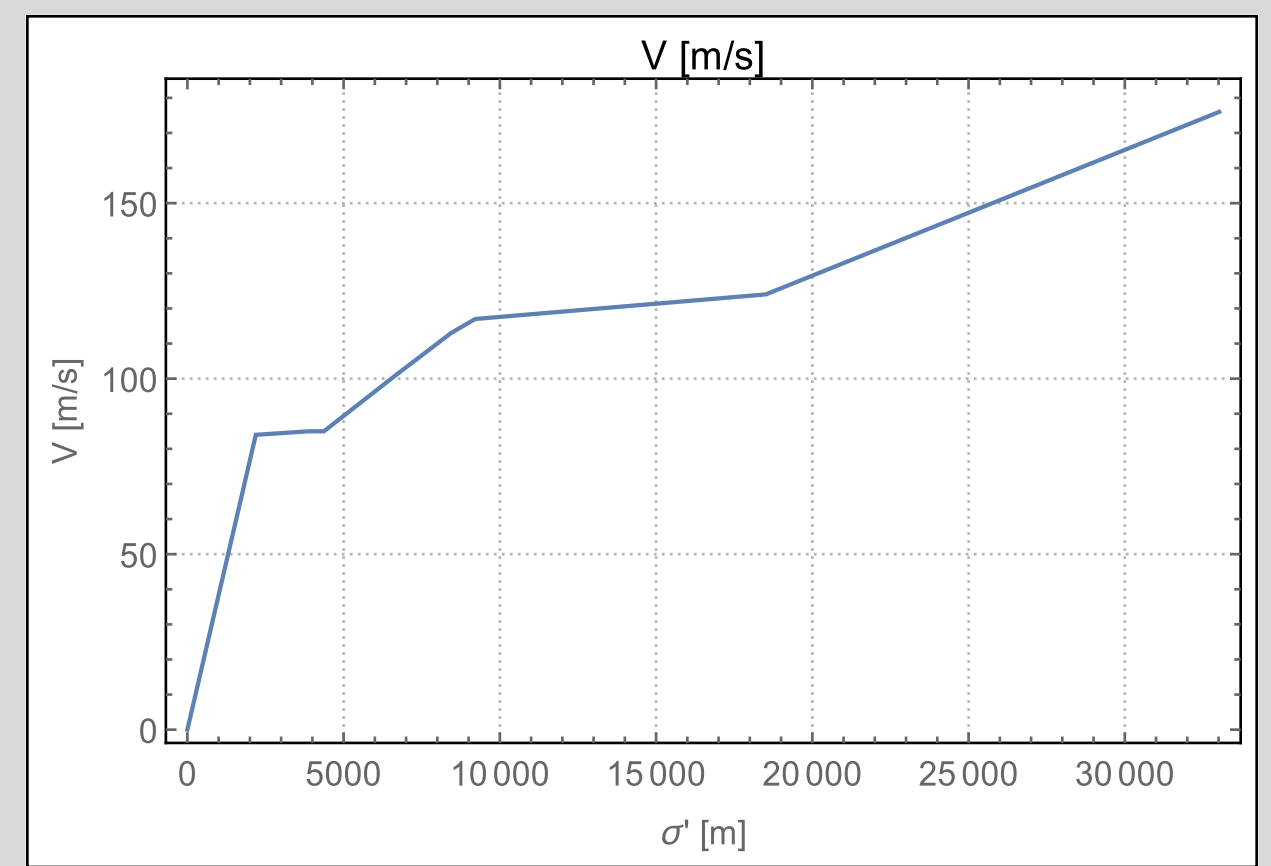
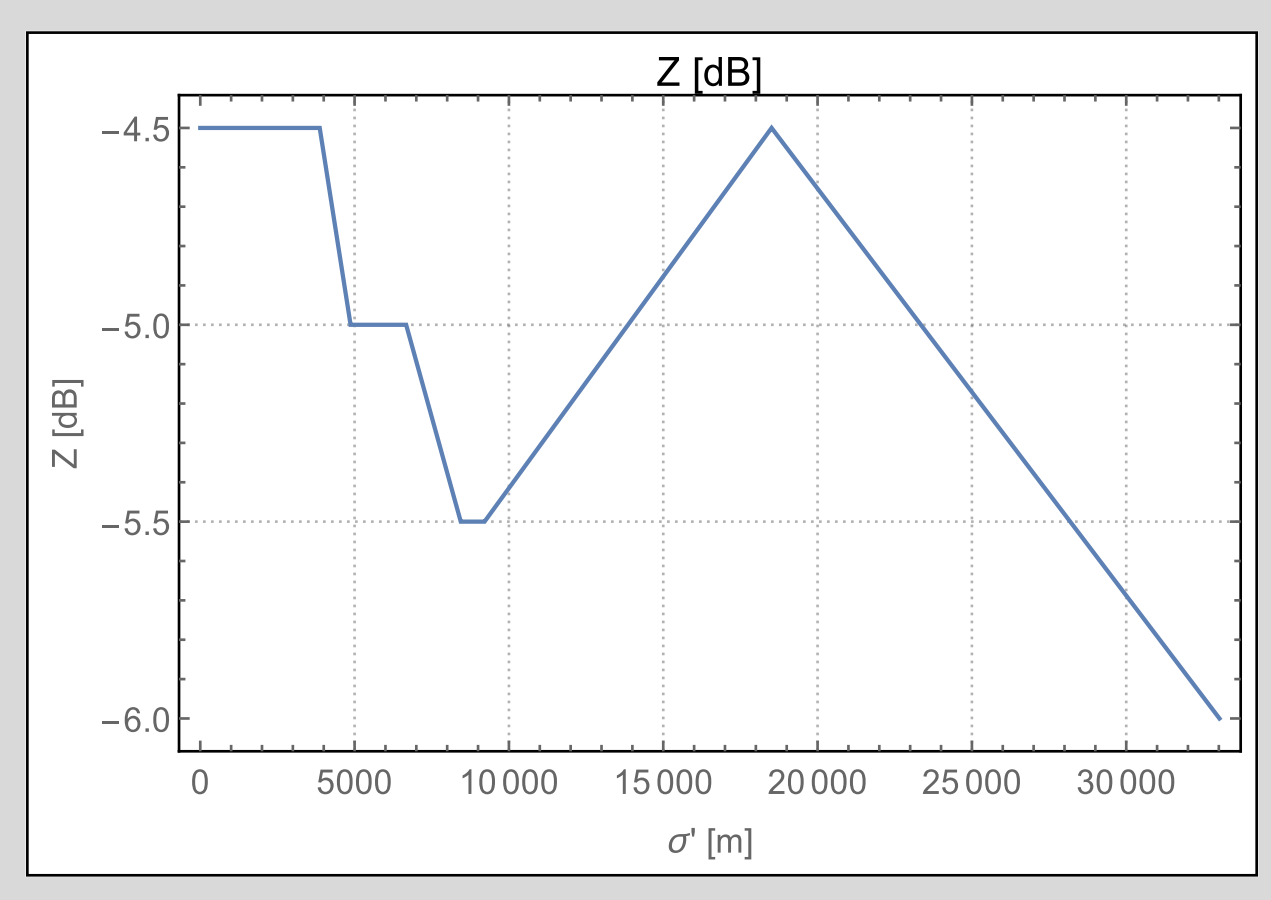
737800 85% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-4,5	0	0
2190	-4,5	84	0
3870	-4,5	85	-
4370	-	85	305
4870	-5	-	-
6670	-5	101	461
8440	-5,5	113	584
9210	-5,5	117	638
18510	-4,5	124	1751
33020	-6	176	2555
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 33020	0	0	0,078

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	T_05	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	T_05	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	T_05	MaxClimb	192.	0.
4	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	212.	0.
5	Accelerate to 220 kt	ACC	0	T_00	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	T_00	MaxClimb	18520.	0.
7	Accelerate to 300 kt	ACC	0	T_00	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	20 233 lbf	0 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
End	162. knots	162.7 knots	16 582 lbf	2194 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
Gain	162. knots	162.7 knots	-3651 lbf	2194 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	16 582 lbf	2194 m	328 ft	7.97°	2285 ft/min	-4.5 dB <sub>A</sub>
End	162. knots	165.2 knots	16 693 lbf	4371 m	1328 ft	7.97°	2319 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	2.5 knots	111 lbf	2177 m	1000 ft	0.°	34 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	165.2 knots	16 693 lbf	4371 m	1328 ft	3.89°	1135 ft/min	-4.5 dB <sub>A</sub>
End	192. knots	197.3 knots	16 093 lbf	6671 m	1841 ft	3.89°	1355 ft/min	-5. dB <sub>A</sub>
Gain	30. knots	32.1 knots	-600 lbf	2300 m	513 ft	0.°	220 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	192. knots	197.3 knots	16 093 lbf	6671 m	1841 ft	3.97°	1383 ft/min	-5. dB <sub>A</sub>
End	212. knots	219.1 knots	15 710 lbf	8445 m	2245 ft	3.97°	1536 ft/min	-5.5 dB <sub>A</sub>
Gain	20. knots	21.8 knots	-383 lbf	1774 m	404 ft	0.°	153 ft/min	-0.5 dB <sub>A</sub>

Segment 5 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	219.1 knots	15 710 lbf	8445 m	2245 ft	4.°	1548 ft/min	-5.5 dB <sub>A</sub>
End	220. knots	228. knots	15 561 lbf	9212 m	2421 ft	4.°	1610 ft/min	-5.5 dB <sub>A</sub>
Gain	8. knots	8.9 knots	-149 lbf	767 m	176 ft	0.°	62 ft/min	0. dB <sub>A</sub>

Segment 6 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	228. knots	15 561 lbf	9212 m	2421 ft	6.83°	2746 ft/min	-5.5 dB <sub>A</sub>
End	220. knots	240.9 knots	16 574 lbf	18 509 m	6073 ft	6.83°	2901 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	12.9 knots	1013 lbf	9297 m	3652 ft	0.°	155 ft/min	1. dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	240.9 knots	16 574 lbf	18 509 m	6073 ft	3.17°	1349 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	342.1 knots	15 326 lbf	33 015 m	8712 ft	3.17°	1916 ft/min	-6. dB <sub>A</sub>
Gain	80. knots	101.2 knots	-1248 lbf	14 506 m	2639 ft	0.°	567 ft/min	-1.5 dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	342.1 knots	15 326 lbf	33 015 m	8712 ft	4.46°	2694 ft/min	-6. dB <sub>A</sub>
End	300. knots	380.1 knots	17 161 lbf	58 846 m	15 328 ft	4.46°	2993 ft/min	-4. dB <sub>A</sub>
Gain	0. knots	38. knots	1835 lbf	25 831 m	6616 ft	0.°	299 ft/min	2. dB <sub>A</sub>

# NADP2-15

737800 95% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-3	0	0
2480	-3	88	0
5360	-3	90	-
5860	-	90	457
6360	-3,5	-	-
9370	-3,5	112	680
10510	-4	118	754
18510	-3	123	1644
19730	-3,5	129	1715
33100	-4,5	175	2438
$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 33100	0	0	0,077

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	T_05	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	T_05	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	T_05	MaxClimb	209.	0.
4	Accelerate to 220 kt	ACC	0	T_01	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	T_01	MaxClimb	18520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	229.	0.
7	Accelerate to 300 kt	ACC	0	T_00	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	22481 lbf	0 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
End	170. knots	170.8 knots	18224 lbf	2481 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
Gain	170. knots	170.8 knots	-4257 lbf	2481 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	18224 lbf	2481 m	328 ft	7.7°	2318 ft/min	-3. dB <sub>A</sub>
End	170. knots	174.6 knots	18409 lbf	5860 m	1828 ft	7.7°	2369 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	3.8 knots	185 lbf	3379 m	1500 ft	0.°	51 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	174.6 knots	18327 lbf	5860 m	1828 ft	3.64°	1123 ft/min	-3. dB <sub>A</sub>
End	209. knots	217.1 knots	17487 lbf	9367 m	2559 ft	3.64°	1395 ft/min	-3.5 dB <sub>A</sub>
Gain	39. knots	42.5 knots	-840 lbf	3507 m	731 ft	0.°	272 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	217.1 knots	17487 lbf	9367 m	2559 ft	3.72°	1426 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	229.2 knots	17262 lbf	10506 m	2802 ft	3.72°	1506 ft/min	-4. dB <sub>A</sub>
Gain	11. knots	12.1 knots	-225 lbf	1139 m	243 ft	0.°	80 ft/min	-0.5 dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	229.2 knots	17262 lbf	10506 m	2802 ft	6.35°	2568 ft/min	-4. dB <sub>A</sub>
End	220. knots	239.6 knots	18154 lbf	18509 m	5723 ft	6.35°	2683 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	10.4 knots	892 lbf	8003 m	2921 ft	0.°	115 ft/min	1. dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

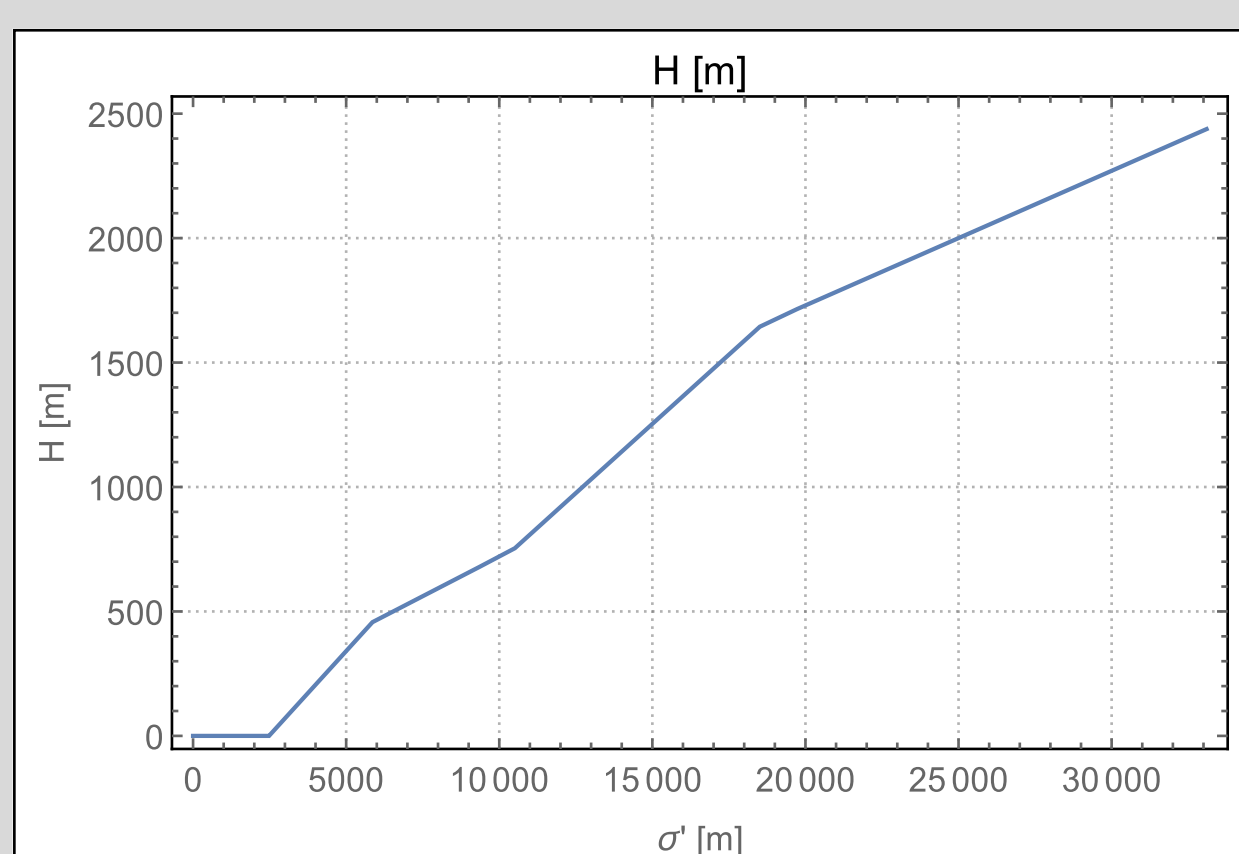
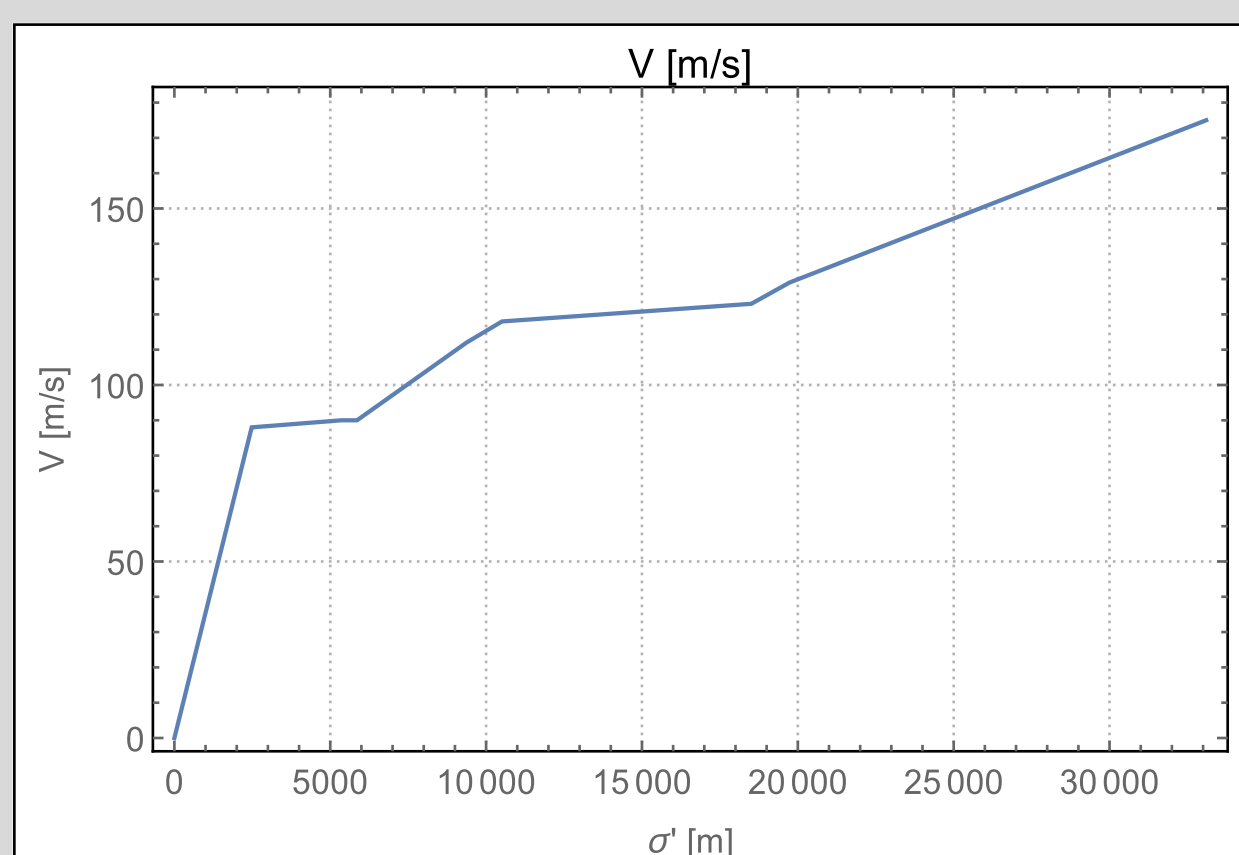
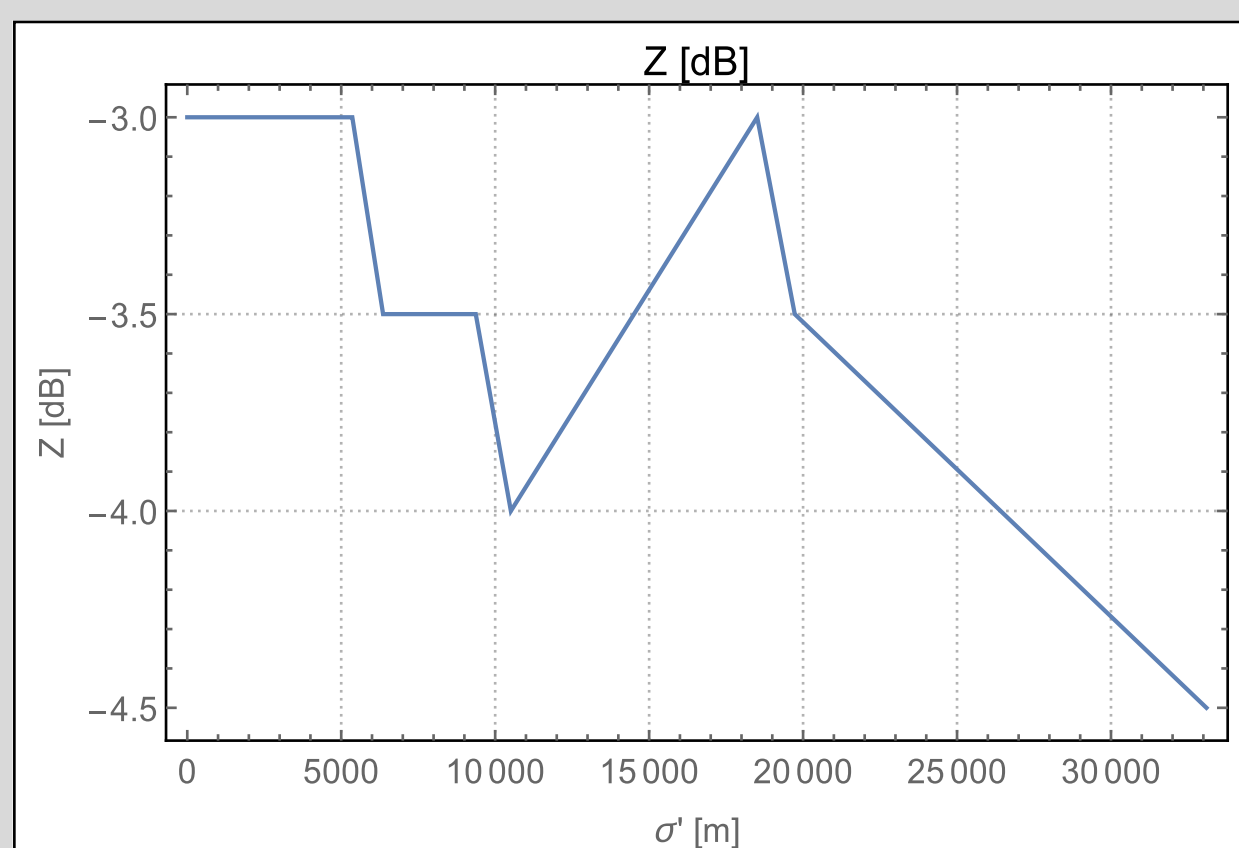
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	239.6 knots	18154 lbf	18509 m	5723 ft	3.32°	1405 ft/min	-3. dB <sub>A</sub>
End	229. knots	250.3 knots	17980 lbf	19733 m	5956 ft	3.32°	1468 ft/min	-3.5 dB <sub>A</sub>
Gain	9. knots	10.7 knots	-174 lbf	1224 m	233 ft	0.°	63 ft/min	-0.5 dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	250.3 knots	17980 lbf	19733 m	5956 ft	3.1°	1371 ft/min	-3.5 dB <sub>A</sub>
End	300. knots	340.1 knots	16769 lbf	33097 m	8328 ft	3.1°	1862 ft/min	-4.5 dB <sub>A</sub>
Gain	71. knots	89.8 knots	-1211 lbf	13364 m	2372 ft	0.°	491 ft/min	-1. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	340.1 knots	16769 lbf	33097 m	8328 ft	4.4°	2642 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	380.1 knots	18908 lbf	60845 m	15328 ft	4.4°	2953 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	40. knots	2139 lbf	27748 m	7000 ft	0.°	311 ft/min	2. dB <sub>A</sub>



# NADP2-15

737800 85% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-4,5	0	0
2190	-4,5	84	0
5000	-4,5	86	-
5500	-	86	457
6000	-5	-	-
7880	-5	102	616
9730	-5,5	114	741
10520	-5,5	118	796
18500	-5	124	1738
33070	-6	176	2540

$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 33070	0	0	0,077

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	T_05	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	T_05	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	T_05	MaxClimb	192.	0.
4	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	212.	0.
5	Accelerate to 220 kt	ACC	0	T_00	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	T_00	MaxClimb	18520.	0.
7	Accelerate to 300 kt	ACC	0	T_00	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	20 233 lbf	0 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
End	162. knots	162.7 knots	16 582 lbf	2194 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
Gain	162. knots	162.7 knots	-3651 lbf	2194 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	16 582 lbf	2194 m	328 ft	7.89°	2263 ft/min	-4.5 dB <sub>A</sub>
End	162. knots	166.4 knots	16 749 lbf	5495 m	1828 ft	7.89°	2313 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	3.7 knots	167 lbf	3301 m	1500 ft	0.°	50 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	166.4 knots	16 749 lbf	5495 m	1828 ft	3.8°	1117 ft/min	-4.5 dB <sub>A</sub>
End	192. knots	198.8 knots	16 154 lbf	7884 m	2349 ft	3.8°	1334 ft/min	-5. dB <sub>A</sub>
Gain	30. knots	32.4 knots	-595 lbf	2389 m	521 ft	0.°	217 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	192. knots	198.8 knots	16 154 lbf	7884 m	2349 ft	3.88°	1362 ft/min	-5. dB <sub>A</sub>
End	212. knots	220.8 knots	15 775 lbf	9726 m	2759 ft	3.88°	1513 ft/min	-5.5 dB <sub>A</sub>
Gain	20. knots	22. knots	-379 lbf	1842 m	410 ft	0.°	151 ft/min	-0.5 dB <sub>A</sub>

Segment 5 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	220.8 knots	15 775 lbf	9726 m	2759 ft	3.92°	1529 ft/min	-5.5 dB <sub>A</sub>
End	220. knots	229.7 knots	15 627 lbf	10 523 m	2938 ft	3.92°	1591 ft/min	-5.5 dB <sub>A</sub>
Gain	8. knots	8.9 knots	-148 lbf	797 m	179 ft	0.°	62 ft/min	0. dB <sub>A</sub>

Segment 6 Climb to 10NM

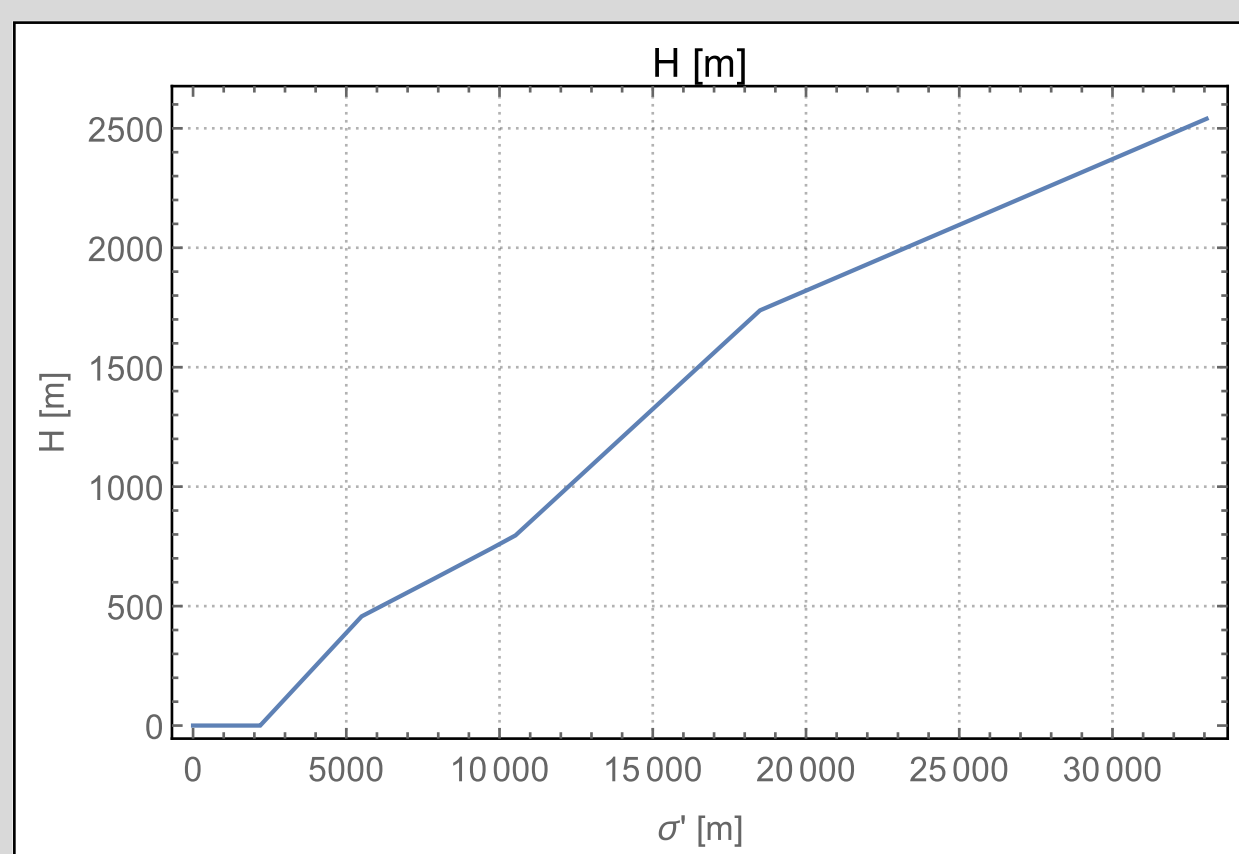
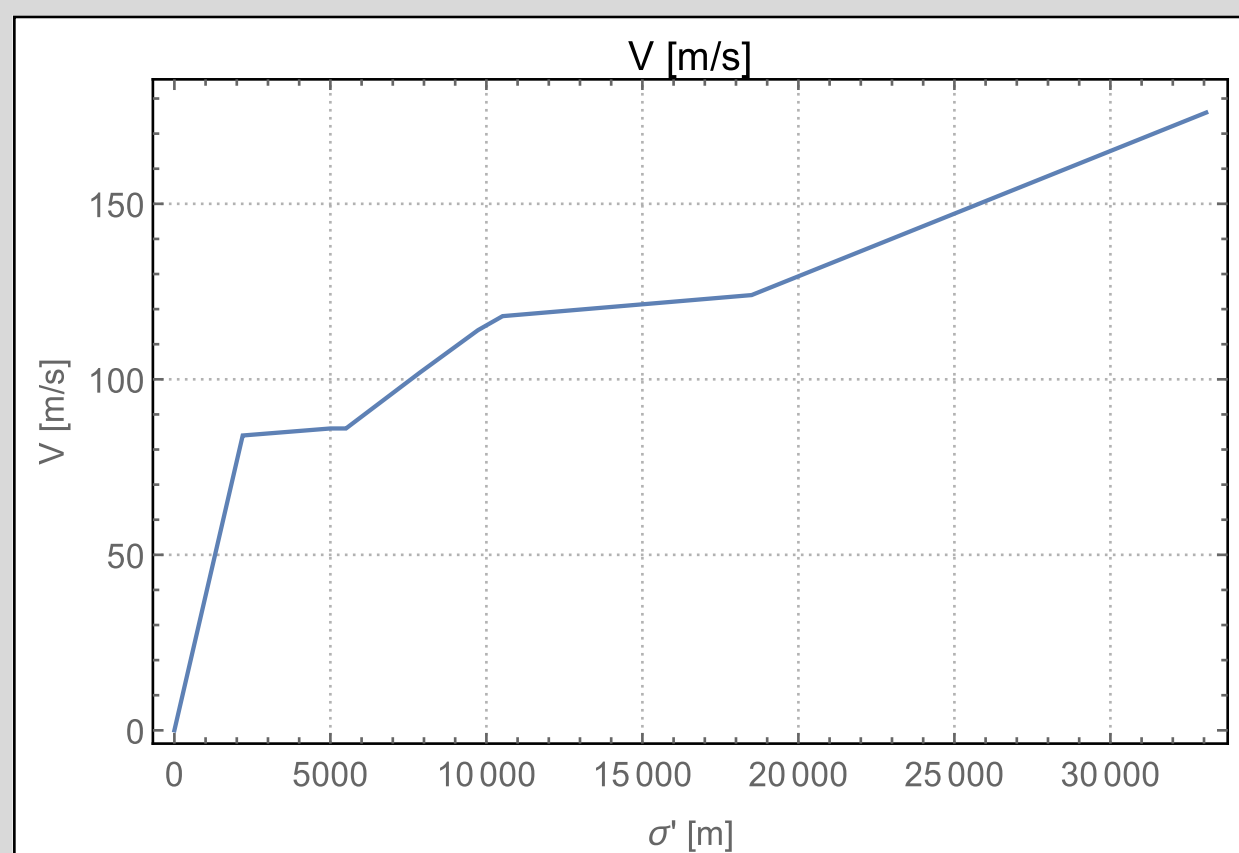
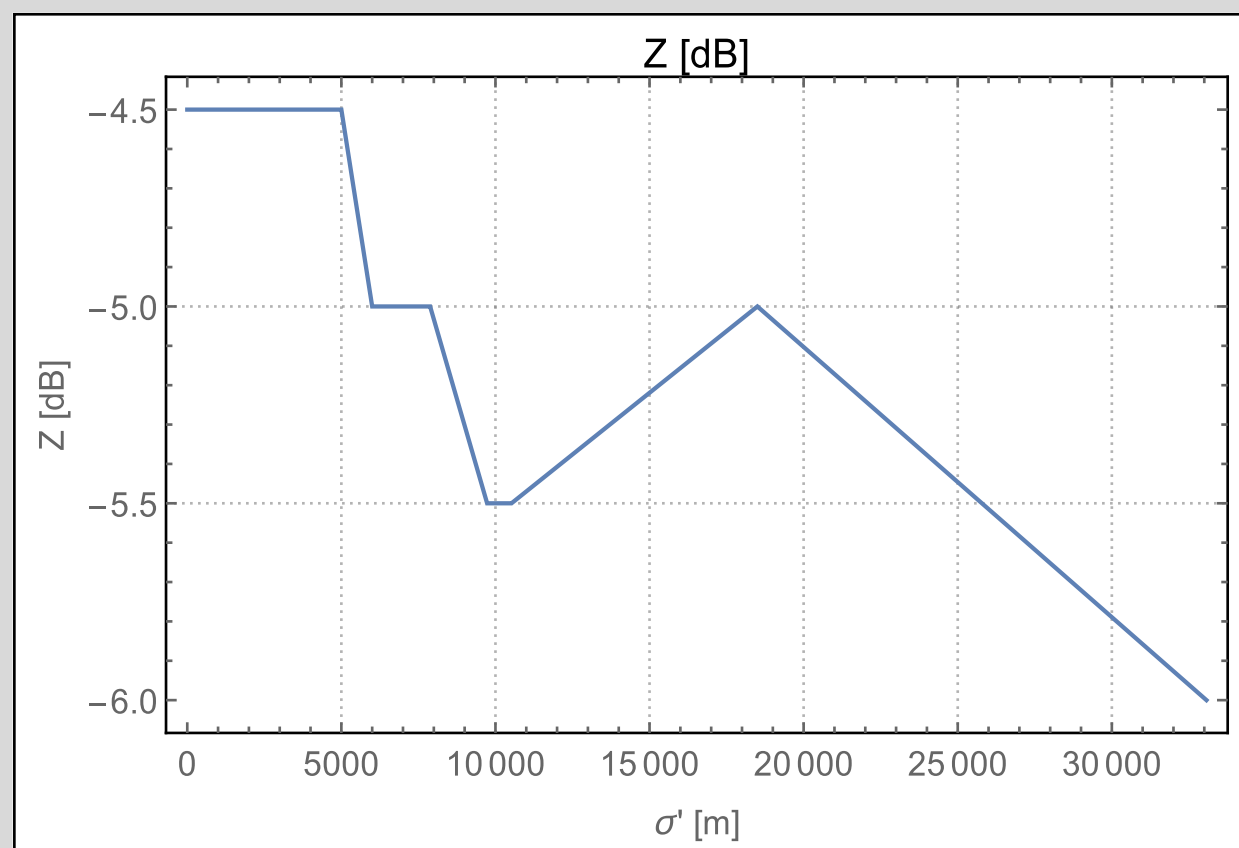
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	229.7 knots	15 627 lbf	10 523 m	2938 ft	6.73°	2727 ft/min	-5.5 dB <sub>A</sub>
End	220. knots	240.8 knots	16 480 lbf	18 503 m	6029 ft	6.73°	2857 ft/min	-5. dB <sub>A</sub>
Gain	0. knots	11.1 knots	853 lbf	7980 m	3091 ft	0.°	130 ft/min	0.5 dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	240.8 knots	16 480 lbf	18 503 m	6029 ft	3.15°	1339 ft/min	-5. dB <sub>A</sub>
End	300. knots	341.9 knots	15 237 lbf	33 072 m	8663 ft	3.15°	1902 ft/min	-6. dB <sub>A</sub>
Gain	80. knots	101.1 knots	-1243 lbf	14 569 m	2634 ft	0.°	563 ft/min	-1. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	341.9 knots	15 237 lbf	33 072 m	8663 ft	4.43°	2674 ft/min	-6. dB <sub>A</sub>
End	300. knots	380.1 knots	17 077 lbf	59 294 m	15 328 ft	4.43°	2973 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	38.2 knots	1840 lbf	26 222 m	6665 ft	0.°	299 ft/min	1.5 dB <sub>A</sub>



# NADP1

747400 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3120	-1	101	0
7480	-0,5	103	-
7980	-	103	457
8480	-2,5	-	-
14780	-2,5	105	914
15710	-2,5	108	945
19380	-2,5	120	1080
23170	-3	132	1232
31590	-3	156	1597
36630	-3,5	170	1815
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 36630	0	0	0,066

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	20.	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	20.	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	20.	MaxClimb	3000.	0.
4	Accelerate to Flaps 10 Speed	ACC	0	20.	MaxClimb	200.	0.
5	Accelerate to Flaps 5 Speed	ACC	0	10.	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	T_05	MaxClimb	18520.	0.
7	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	240.	0.
8	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	280.	0.
9	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
10	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	51 032 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	195. knots	195.9 knots	41 091 lbf	3116 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	195. knots	195.9 knots	-9941 lbf	3116 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	195.9 knots	41 091 lbf	3116 m	328 ft	5.37°	1857 ft/min	-1. dB <sub>A</sub>
End	195. knots	200.3 knots	41 959 lbf	7978 m	1828 ft	5.37°	1898 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	4.4 knots	868 lbf	4862 m	1500 ft	0.°	41 ft/min	0.5 dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	200.3 knots	37 010 lbf	7978 m	1828 ft	3.85°	1362 ft/min	-2.5 dB <sub>A</sub>
End	195. knots	204.9 knots	37 963 lbf	14779 m	3328 ft	3.85°	1393 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	4.6 knots	953 lbf	6801 m	1500 ft	0.°	31 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	204.9 knots	37 963 lbf	14779 m	3328 ft	1.91°	691 ft/min	-2.5 dB <sub>A</sub>
End	200. knots	210.4 knots	37 815 lbf	15711 m	3430 ft	1.91°	710 ft/min	-2.5 dB <sub>A</sub>
Gain	5. knots	5.5 knots	-148 lbf	932 m	102 ft	0.°	19 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	210.4 knots	37 815 lbf	15711 m	3430 ft	2.1°	781 ft/min	-2.5 dB <sub>A</sub>
End	220. knots	232.9 knots	37 243 lbf	19376 m	3871 ft	2.1°	865 ft/min	-2.5 dB <sub>A</sub>
Gain	20. knots	22.5 knots	-572 lbf	3665 m	441 ft	0.°	84 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	232.9 knots	37 243 lbf	19376 m	3871 ft	2.3°	947 ft/min	-2.5 dB <sub>A</sub>
End	240. knots	256.1 knots	36 709 lbf	23172 m	4371 ft	2.3°	1041 ft/min	-3. dB <sub>A</sub>
Gain	20. knots	23.2 knots	-534 lbf	3796 m	500 ft	0.°	94 ft/min	-0.5 dB <sub>A</sub>

Segment 8 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

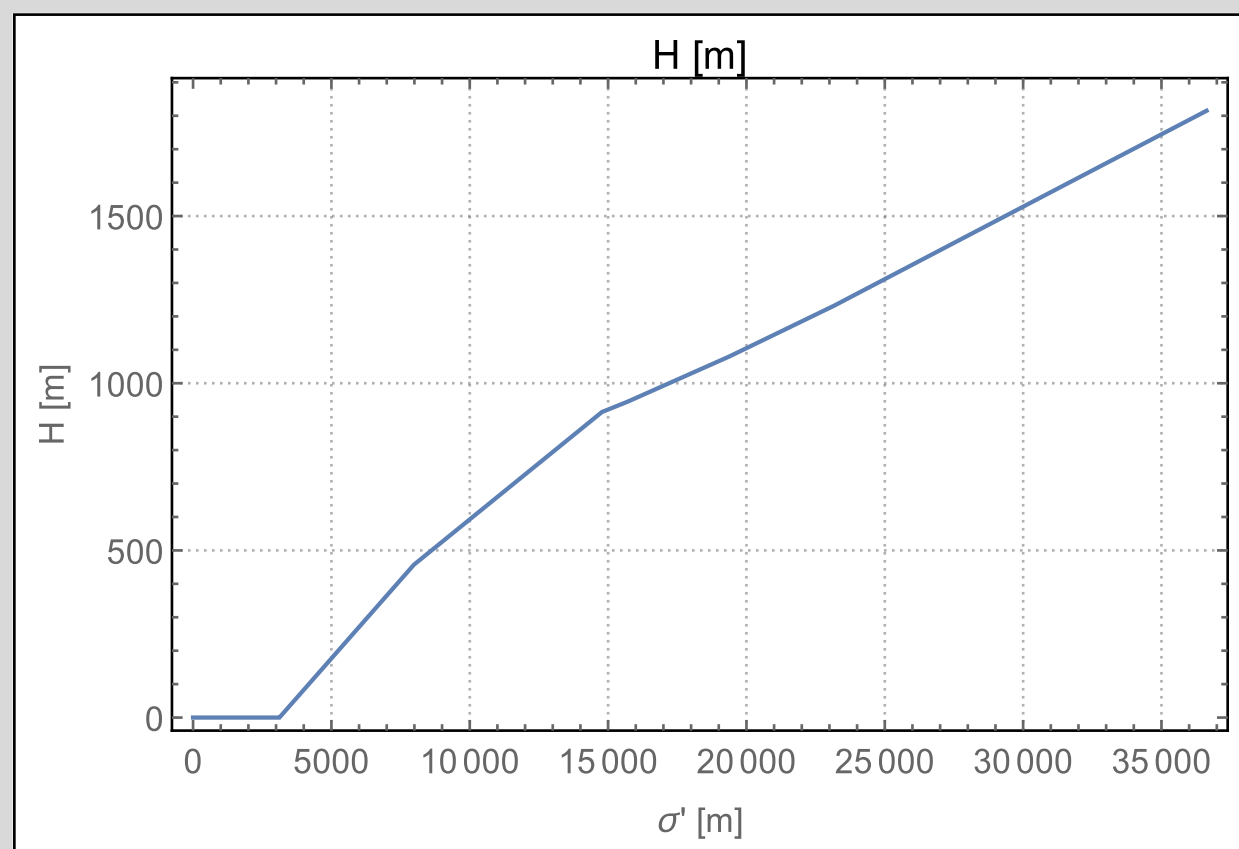
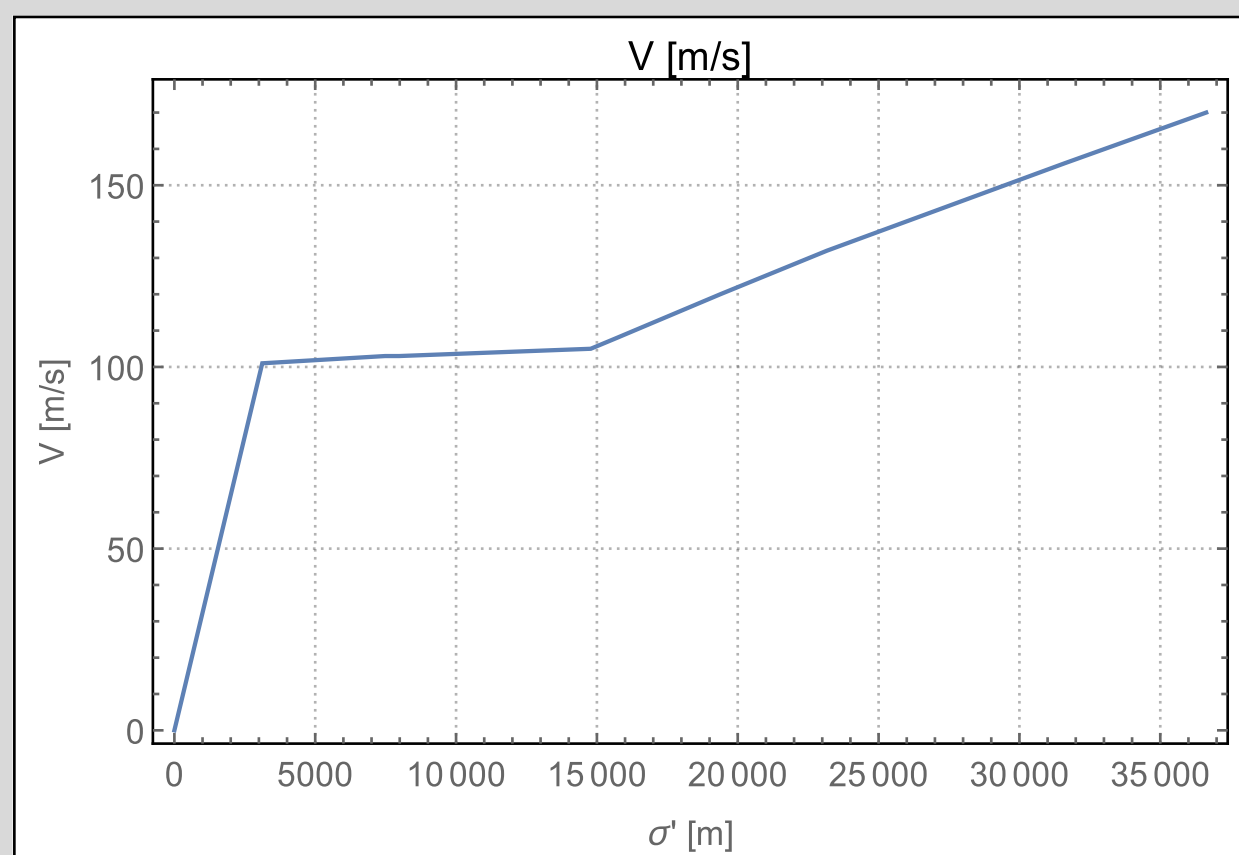
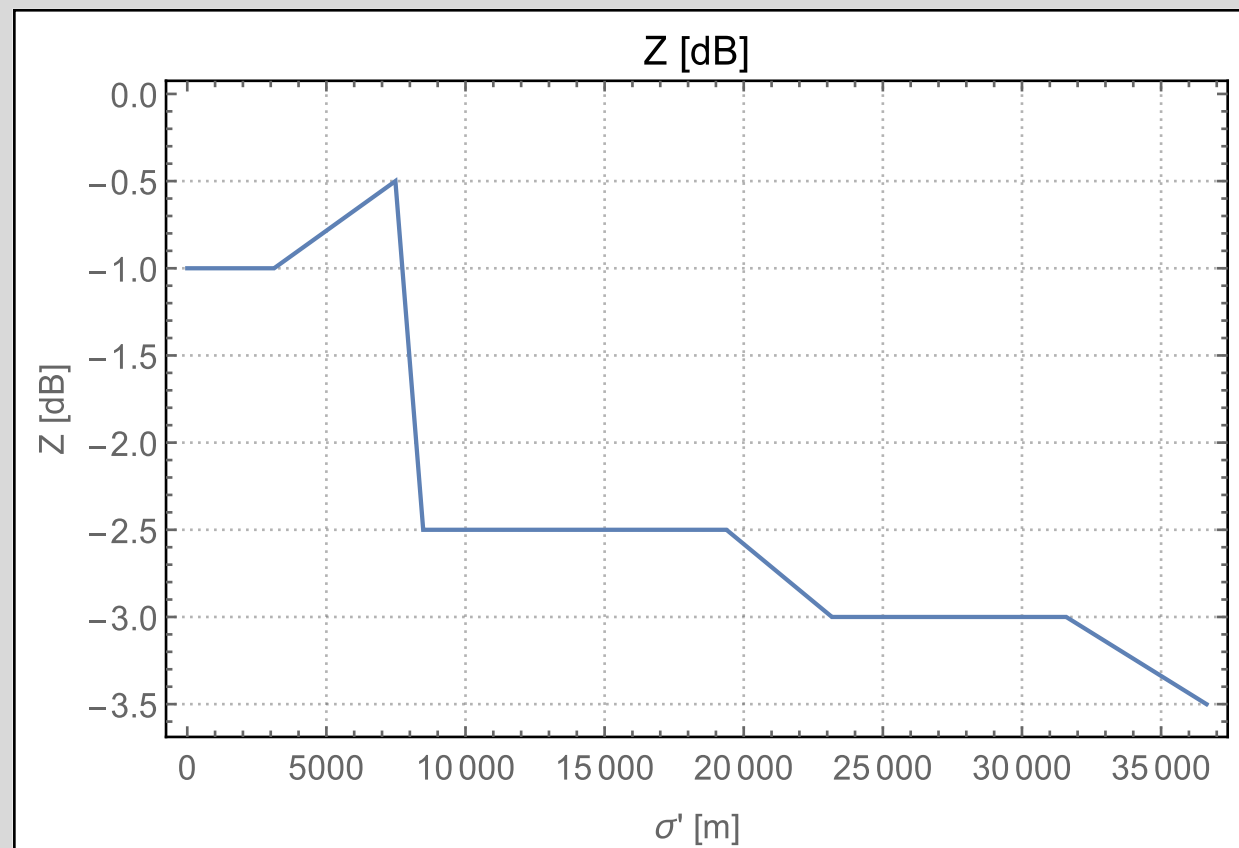
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	256.1 knots	36 709 lbf	23172 m	4371 ft	2.48°	1122 ft/min	-3. dB <sub>A</sub>
End	280. knots	304.2 knots	35 765 lbf	31587 m	5567 ft	2.48°	1333 ft/min	-3. dB <sub>A</sub>
Gain	40. knots	48.1 knots	-944 lbf	8415 m	1196 ft	0.°	211 ft/min	0. dB <sub>A</sub>

Segment 9 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	304.2 knots	35 765 lbf	31587 m	5567 ft	2.47°	1328 ft/min	-3. dB <sub>A</sub>
End	300. knots	329.5 knots	35 367 lbf	36629 m	6282 ft	2.47°	1438 ft/min	-3.5 dB <sub>A</sub>
Gain	20. knots	25.3 knots	-398 lbf	5042 m	715 ft	0.°	110 ft/min	-0.5 dB <sub>A</sub>

Segment 10 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	329.5 knots	35 367 lbf	36629 m	6282 ft	3.76°	2188 ft/min	-3.5 dB <sub>A</sub>
End	300. knots	380.1 knots	41 118 lbf	78629 m	15328 ft	3.76°	2524 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	50.6 knots	5751 lbf	42000 m	9046 ft	0.°	336 ft/min	2.5 dB <sub>A</sub>



# NADP1

747400 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-4,5	0	0
2150	-4,5	88	0
5720	-4,5	90	-
6220	-	90	457
6720	-4	-	-
10550	-4	92	914
11060	-4	95	941
13140	-4,5	106	1058
15390	-4,5	118	1191
15960	-4,5	121	1227
18520	-4,5	122	1519
20460	-4,5	132	1638
31710	-5	174	2299
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 31710	0	0	0,087

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	20.	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	20.	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	20.	MaxClimb	3000.	0.
4	Accelerate to Flaps 10 Speed	ACC	0	20.	MaxClimb	175.	0.
5	Accelerate to Flaps 5 Speed	ACC	0	10.	MaxClimb	195.	0.
6	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	215.	0.
7	Accelerate to 220 kt	ACC	0	T_01	MaxClimb	220.	0.
8	Climb to 10NM	CSD	0	T_01	MaxClimb	18520.	0.
9	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	235.	0.
10	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
11	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	40916 lbf	0 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
End	170. knots	170.8 knots	33967 lbf	2147 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
Gain	170. knots	170.8 knots	-6949 lbf	2147 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	33967 lbf	2147 m	328 ft	6.4°	1928 ft/min	-4.5 dB <sub>A</sub>
End	170. knots	174.6 knots	34663 lbf	6222 m	1828 ft	6.4°	1971 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	3.8 knots	696 lbf	4075 m	1500 ft	0.°	43 ft/min	0. dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	174.6 knots	34663 lbf	6222 m	1828 ft	6.03°	1858 ft/min	-4.5 dB <sub>A</sub>
End	170. knots	178.6 knots	35531 lbf	10548 m	3328 ft	6.03°	1900 ft/min	-4. dB <sub>A</sub>
Gain	0. knots	4. knots	868 lbf	4326 m	1500 ft	0.°	42 ft/min	0.5 dB <sub>A</sub>

Segment 4 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	178.6 knots	35531 lbf	10548 m	3328 ft	3.02°	953 ft/min	-4. dB <sub>A</sub>
End	175. knots	184.1 knots	35388 lbf	11056 m	3416 ft	3.02°	982 ft/min	-4. dB <sub>A</sub>
Gain	5. knots	5.5 knots	-143 lbf	508 m	88 ft	0.°	29 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	175. knots	184.1 knots	35388 lbf	11056 m	3416 ft	3.2°	1041 ft/min	-4. dB <sub>A</sub>
End	195. knots	206.2 knots	34834 lbf	13141 m	3799 ft	3.2°	1166 ft/min	-4.5 dB <sub>A</sub>
Gain	20. knots	22.1 knots	-554 lbf	2085 m	383 ft	0.°	125 ft/min	-0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	206.2 knots	34834 lbf	13141 m	3799 ft	3.38°	1232 ft/min	-4.5 dB <sub>A</sub>
End	215. knots	228.9 knots	34311 lbf	15394 m	4236 ft	3.38°	1367 ft/min	-4.5 dB <sub>A</sub>
Gain	20. knots	22.7 knots	-523 lbf	2253 m	437 ft	0.°	135 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	215. knots	228.9 knots	34311 lbf	15394 m	4236 ft	3.66°	1480 ft/min	-4.5 dB <sub>A</sub>
End	220. knots	234.7 knots	34185 lbf	15956 m	4354 ft	3.66°	1517 ft/min	-4.5 dB <sub>A</sub>
Gain	5. knots	5.8 knots	-126 lbf	562 m	118 ft	0.°	37 ft/min	0. dB <sub>A</sub>

Segment 8 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.7 knots	34185 lbf	15956 m	4354 ft	6.51°	2694 ft/min	-4.5 dB <sub>A</sub>
End	220. knots	238.1 knots	34740 lbf	18517 m	5312 ft	6.51°	2734 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	3.4 knots	555 lbf	2561 m	958 ft	0.°	40 ft/min	0. dB <sub>A</sub>

Segment 9 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

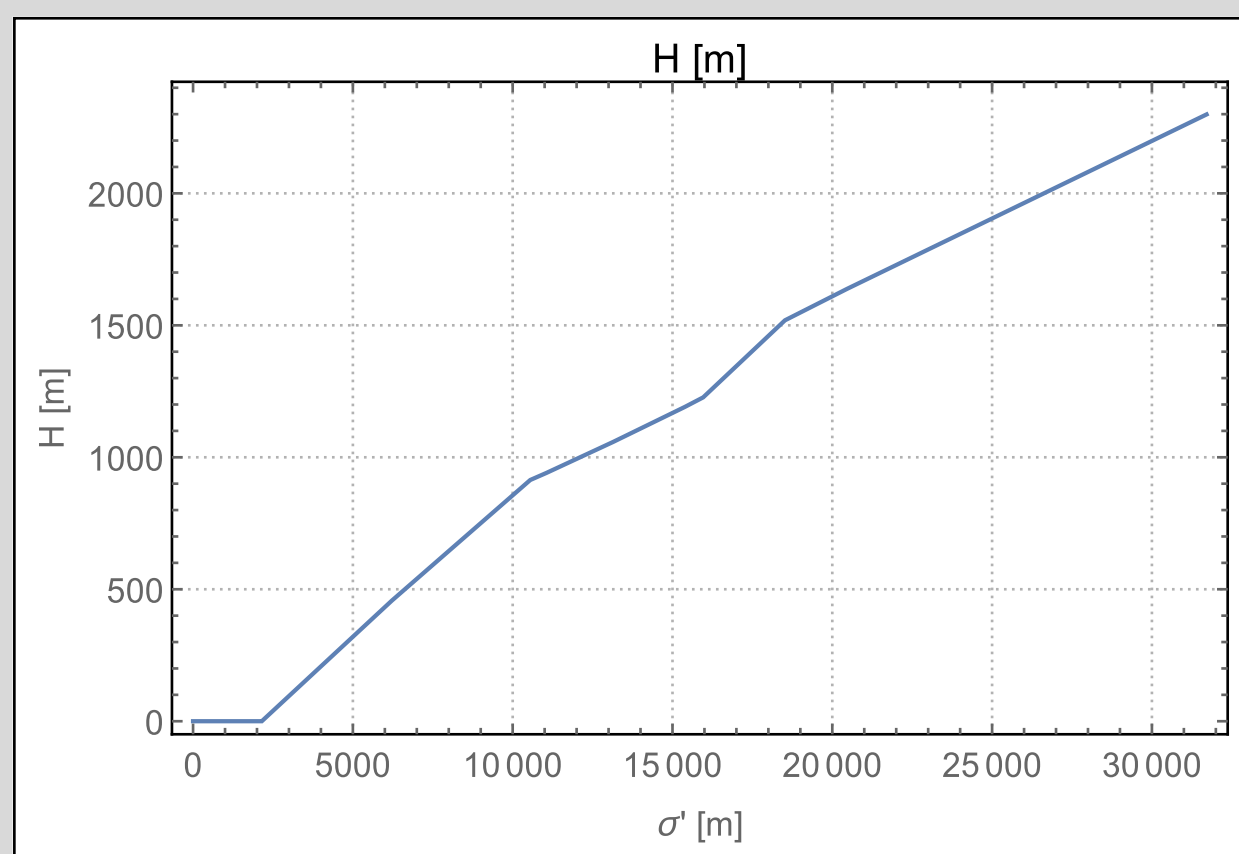
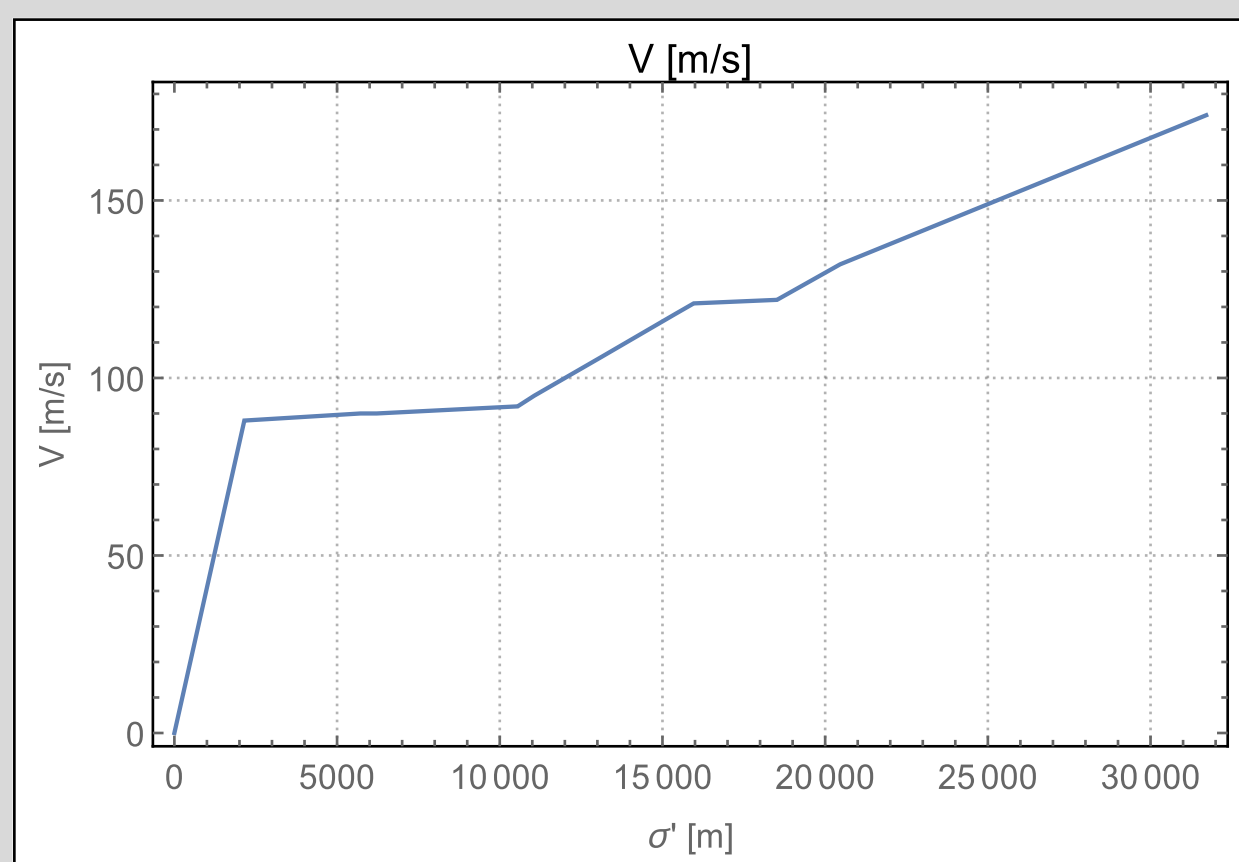
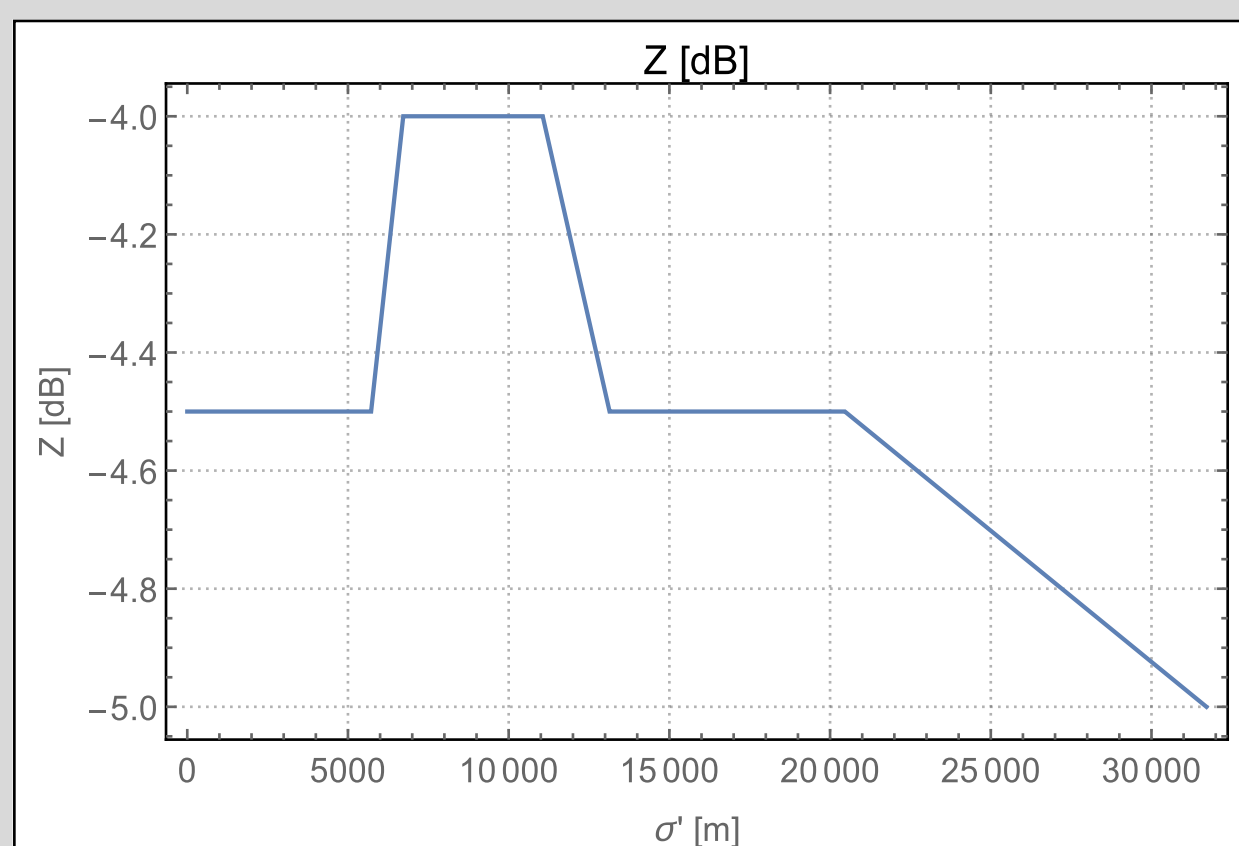
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	238.1 knots	34740 lbf	18517 m	5312 ft	3.49°	1468 ft/min	-4.5 dB <sub>A</sub>
End	235. knots	255.8 knots	34383 lbf	20461 m	5701 ft	3.49°	1577 ft/min	-4.5 dB <sub>A</sub>
Gain	15. knots	17.7 knots	-357 lbf	1944 m	389 ft	0.°	109 ft/min	0. dB <sub>A</sub>

Segment 10 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	235. knots	255.8 knots	34383 lbf	20461 m	5701 ft	3.37°	1523 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	337.7 knots	33118 lbf	31707 m	7872 ft	3.37°	2010 ft/min	-5. dB <sub>A</sub>
Gain	65. knots	81.9 knots	-1265 lbf	11246 m	2171 ft	0.°	487 ft/min	-0.5 dB <sub>A</sub>

Segment 11 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	337.7 knots	33118 lbf	31707 m	7872 ft	4.97°	2962 ft/min	-5. dB <sub>A</sub>
End	300. knots	380.1 knots	37433 lbf	57830 m	15328 ft	4.97°	3335 ft/min	-3.5 dB <sub>A</sub>
Gain	0. knots	42.4 knots	4315 lbf	26123 m	7456 ft	0.°	373 ft/min	1.5 dB <sub>A</sub>





# NADP2-10

747400 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3120	-1	101	0
5820	-0,5	102	-
6320	-	102	305
6820	-3	-	-
7120	-3	105	334
10290	-3	116	460
18510	-2,5	120	1098
22320	-3	132	1250
30770	-3	157	1616
35840	-3,5	170	1834

$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 35840	0	0	0,066

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	20.	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	20.	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 10 Speed	ACC	1.	20.	MaxClimb	200.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	10.	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	T_05	MaxClimb	18520.	0.
6	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	240.	0.
7	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	280.	0.
8	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	51 032 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	195. knots	195.9 knots	41 091 lbf	3116 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	195. knots	195.9 knots	-9941 lbf	3116 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	195.9 knots	41 091 lbf	3116 m	328 ft	5.43°	1878 ft/min	-1. dB <sub>A</sub>
End	195. knots	198.8 knots	41 670 lbf	6324 m	1328 ft	5.43°	1905 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	2.9 knots	579 lbf	3208 m	1000 ft	0.°	27 ft/min	0.5 dB <sub>A</sub>

Segment 3 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	198.8 knots	36 692 lbf	6324 m	1328 ft	2.09°	734 ft/min	-3. dB <sub>A</sub>
End	200. knots	204.2 knots	36 540 lbf	7124 m	1424 ft	2.09°	754 ft/min	-3. dB <sub>A</sub>
Gain	5. knots	5.4 knots	-152 lbf	800 m	96 ft	0.°	20 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	204.2 knots	36 540 lbf	7124 m	1424 ft	2.28°	823 ft/min	-3. dB <sub>A</sub>
End	220. knots	226.1 knots	35 950 lbf	10 291 m	1837 ft	2.28°	911 ft/min	-3. dB <sub>A</sub>
Gain	20. knots	21.9 knots	-590 lbf	3167 m	413 ft	0.°	88 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	226.1 knots	35 950 lbf	10 291 m	1837 ft	4.44°	1772 ft/min	-3. dB <sub>A</sub>
End	220. knots	233.2 knots	37 280 lbf	18 511 m	3929 ft	4.44°	1828 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	7.1 knots	1330 lbf	8220 m	2092 ft	0.°	56 ft/min	0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	233.2 knots	37 280 lbf	18 511 m	3929 ft	2.29°	944 ft/min	-2.5 dB <sub>A</sub>
End	240. knots	256.3 knots	36 746 lbf	22 323 m	4430 ft	2.29°	1037 ft/min	-3. dB <sub>A</sub>
Gain	20. knots	23.1 knots	-534 lbf	3812 m	501 ft	0.°	93 ft/min	-0.5 dB <sub>A</sub>

Segment 7 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

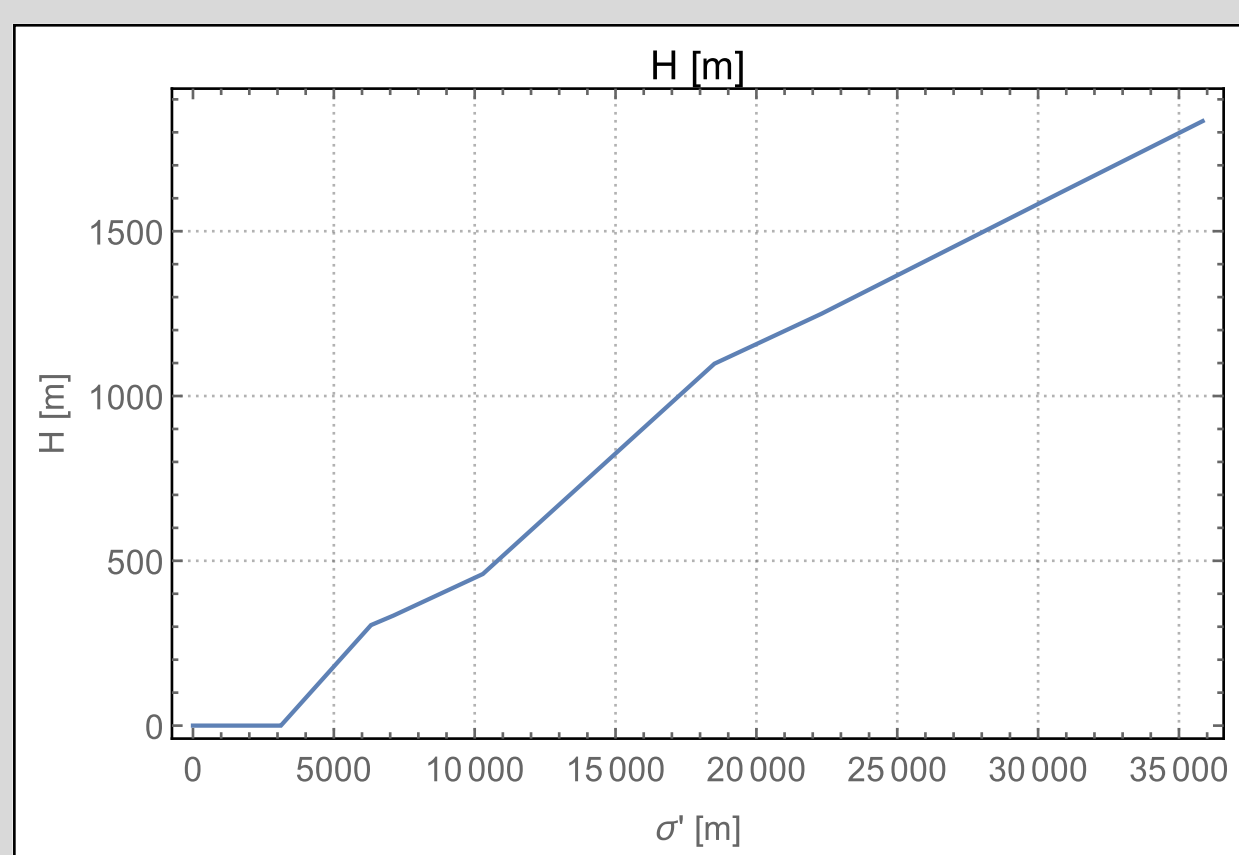
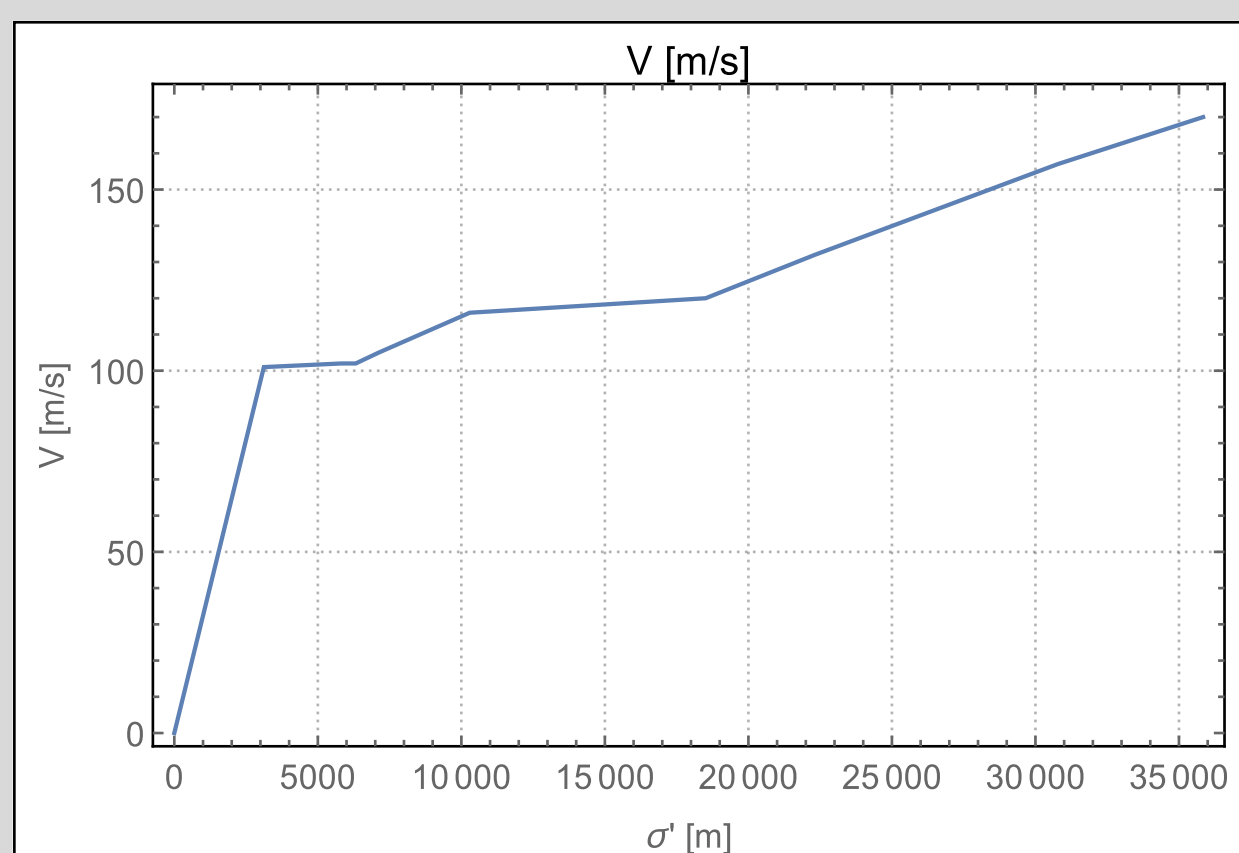
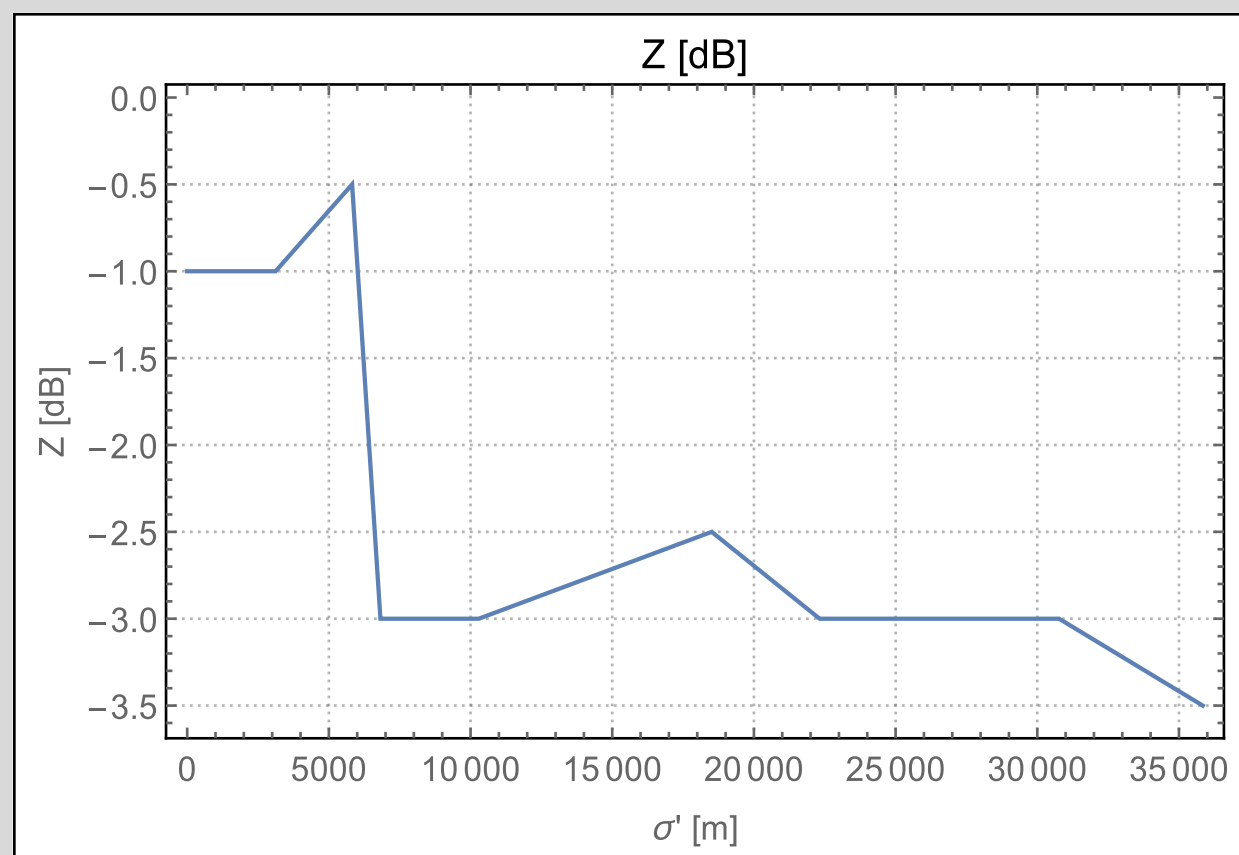
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	256.3 knots	36 746 lbf	22 323 m	4430 ft	2.48°	1123 ft/min	-3. dB <sub>A</sub>
End	280. knots	304.4 knots	35 804 lbf	30 773 m	5629 ft	2.48°	1334 ft/min	-3. dB <sub>A</sub>
Gain	40. knots	48.1 knots	-942 lbf	8450 m	1199 ft	0.°	211 ft/min	0. dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	304.4 knots	35 804 lbf	30 773 m	5629 ft	2.47°	1329 ft/min	-3. dB <sub>A</sub>
End	300. knots	329.9 knots	35 408 lbf	35 839 m	6346 ft	2.47°	1440 ft/min	-3.5 dB <sub>A</sub>
Gain	20. knots	25.5 knots	-396 lbf	5066 m	717 ft	0.°	111 ft/min	-0.5 dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	329.9 knots	35 408 lbf	35 839 m	6346 ft	3.75°	2185 ft/min	-3.5 dB <sub>A</sub>
End	300. knots	380.1 knots	41 118 lbf	77 609 m	15 328 ft	3.75°	2518 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	50.2 knots	5710 lbf	41 770 m	8982 ft	0.°	333 ft/min	2.5 dB <sub>A</sub>



# NADP2-10

747400 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-4,5	0	0
2150	-4,5	88	0
4340	-4,5	89	-
4840	-	89	305
5280	-4,5	92	330
7100	-4,5	103	440
9080	-5	114	564
9570	-5	117	598
18500	-4	123	1646
20490	-4,5	132	1767
32060	-5	175	2441
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 32060	0	0	0,086

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	20.	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	20.	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 10 Speed	ACC	1.	20.	MaxClimb	175.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	10.	MaxClimb	195.	0.
5	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	215.	0.
6	Accelerate to 220 kt	ACC	0	T_01	MaxClimb	220.	0.
7	Climb to 10NM	CSD	0	T_01	MaxClimb	18520.	0.
8	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	235.	0.
9	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
10	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	40916 lbf	0 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
End	170. knots	170.8 knots	33967 lbf	2147 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
Gain	170. knots	170.8 knots	-6949 lbf	2147 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	33967 lbf	2147 m	328 ft	6.46°	1946 ft/min	-4.5 dB <sub>A</sub>
End	170. knots	173.3 knots	34431 lbf	4837 m	1328 ft	6.46°	1975 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	2.5 knots	464 lbf	2690 m	1000 ft	0.°	29 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	173.3 knots	34431 lbf	4837 m	1328 ft	3.27°	1001 ft/min	-4.5 dB <sub>A</sub>
End	175. knots	178.7 knots	34285 lbf	5280 m	1411 ft	3.27°	1032 ft/min	-4.5 dB <sub>A</sub>
Gain	5. knots	5.4 knots	-146 lbf	443 m	83 ft	0.°	31 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	175. knots	178.7 knots	34285 lbf	5280 m	1411 ft	3.44°	1086 ft/min	-4.5 dB <sub>A</sub>
End	195. knots	200.2 knots	33716 lbf	7104 m	1771 ft	3.44°	1216 ft/min	-4.5 dB <sub>A</sub>
Gain	20. knots	21.5 knots	-569 lbf	1824 m	360 ft	0.°	130 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	200.2 knots	33716 lbf	7104 m	1771 ft	3.61°	1276 ft/min	-4.5 dB <sub>A</sub>
End	215. knots	222. knots	33176 lbf	9078 m	2180 ft	3.61°	1416 ft/min	-5. dB <sub>A</sub>
Gain	20. knots	21.8 knots	-540 lbf	1974 m	409 ft	0.°	140 ft/min	-0.5 dB <sub>A</sub>

Segment 6 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	215. knots	222. knots	33176 lbf	9078 m	2180 ft	3.91°	1533 ft/min	-5. dB <sub>A</sub>
End	220. knots	227.5 knots	33046 lbf	9573 m	2291 ft	3.91°	1571 ft/min	-5. dB <sub>A</sub>
Gain	5. knots	5.5 knots	-130 lbf	495 m	111 ft	0.°	38 ft/min	0. dB <sub>A</sub>

Segment 7 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.5 knots	33046 lbf	9573 m	2291 ft	6.7°	2688 ft/min	-5. dB <sub>A</sub>
End	220. knots	239.6 knots	35040 lbf	18498 m	5729 ft	6.7°	2831 ft/min	-4. dB <sub>A</sub>
Gain	0. knots	12.1 knots	1994 lbf	8925 m	3438 ft	0.°	143 ft/min	1. dB <sub>A</sub>

Segment 8 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

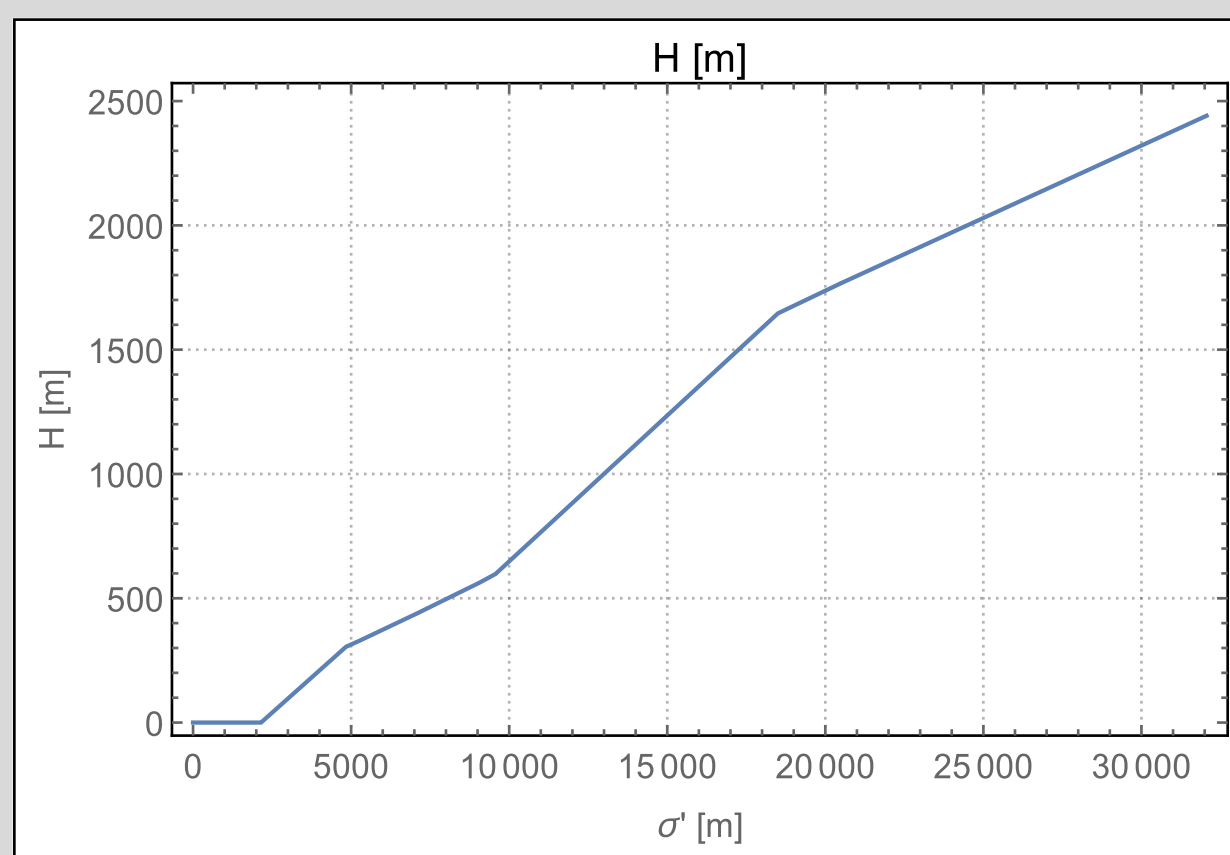
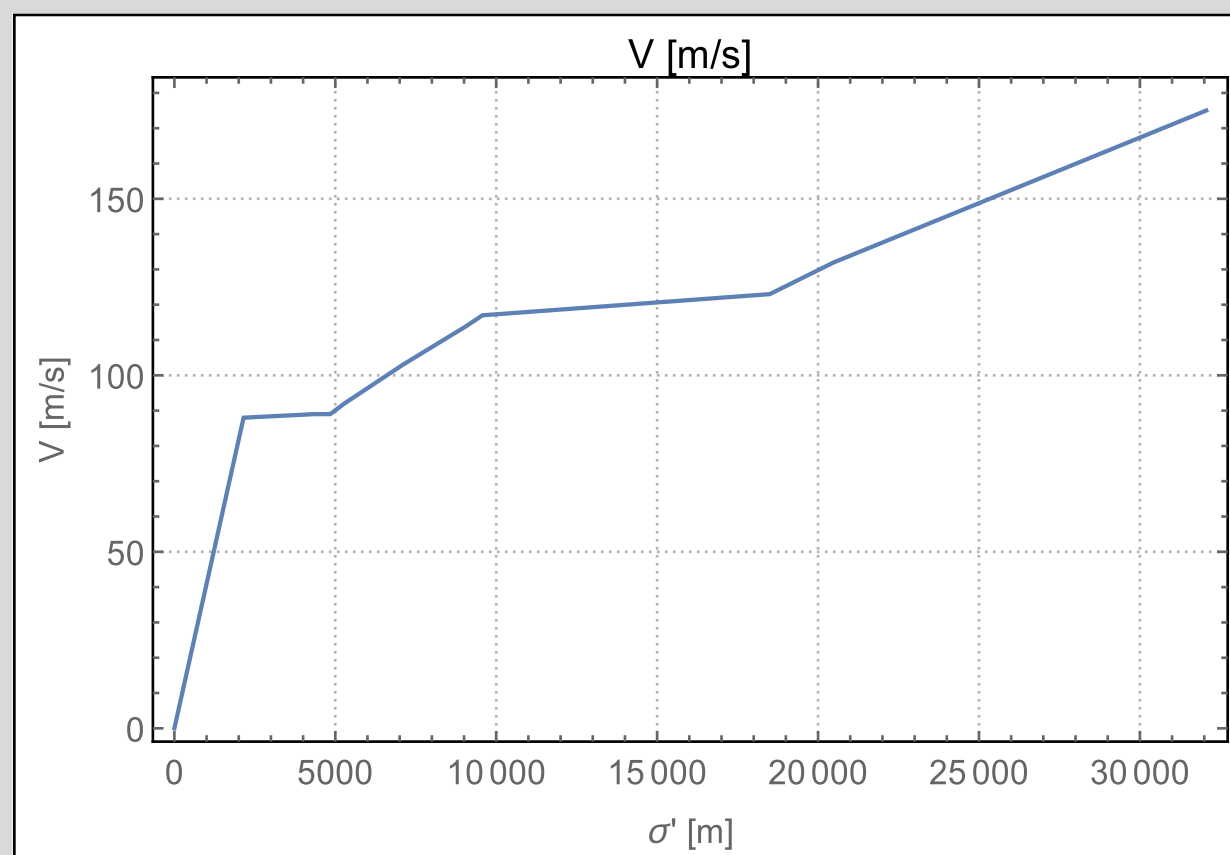
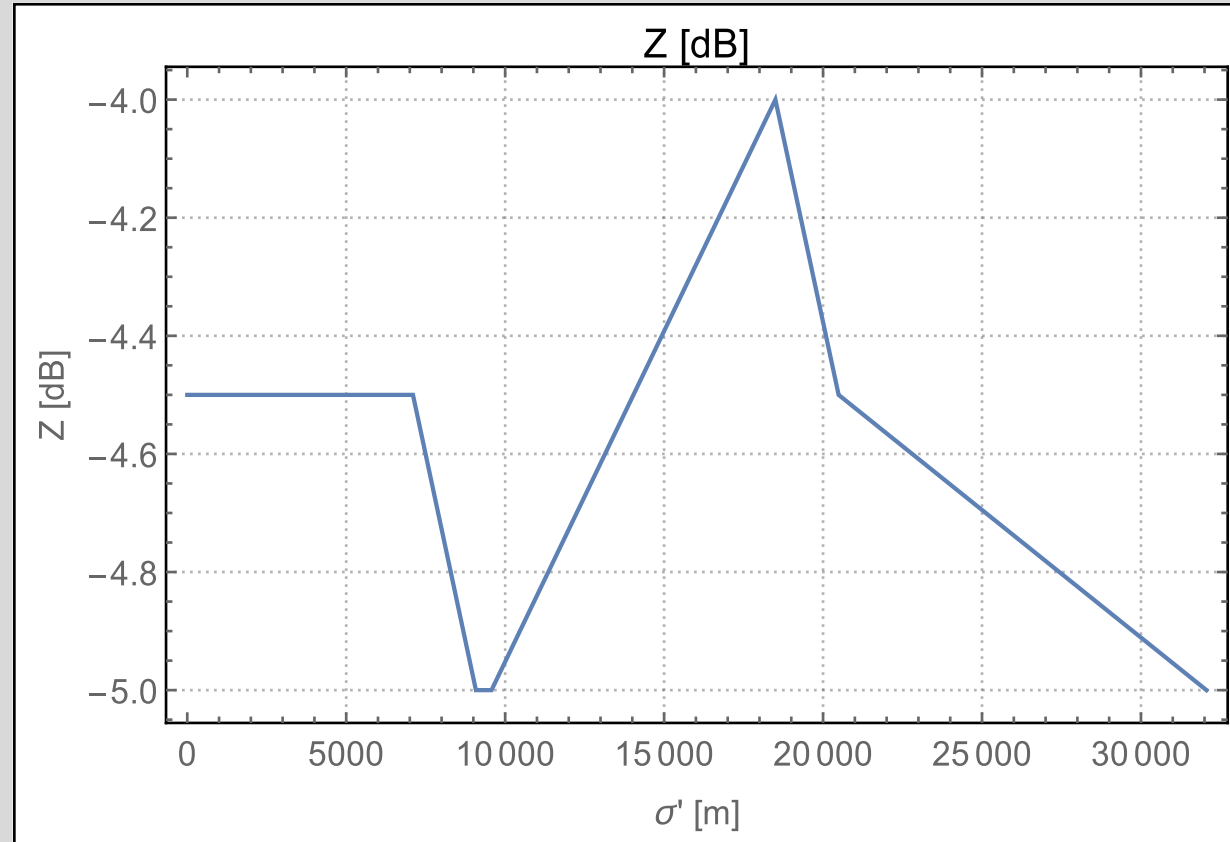
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	239.6 knots	35040 lbf	18498 m	5729 ft	3.46°	1464 ft/min	-4. dB <sub>A</sub>
End	235. knots	257.5 knots	34686 lbf	20492 m	6124 ft	3.46°	1574 ft/min	-4.5 dB <sub>A</sub>
Gain	15. knots	17.9 knots	-354 lbf	1994 m	395 ft	0.°	110 ft/min	-0.5 dB <sub>A</sub>

Segment 9 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	235. knots	257.5 knots	34686 lbf	20492 m	6124 ft	3.33°	1515 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	340.1 knots	33442 lbf	32063 m	8336 ft	3.33°	2001 ft/min	-5. dB <sub>A</sub>
Gain	65. knots	82.6 knots	-1244 lbf	11571 m	2212 ft	0.°	486 ft/min	-0.5 dB <sub>A</sub>

Segment 10 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	340.1 knots	33442 lbf	32063 m	8336 ft	4.93°	2960 ft/min	-5. dB <sub>A</sub>
End	300. knots	380.1 knots	37496 lbf	56765 m	15328 ft	4.93°	3308 ft/min	-3.5 dB <sub>A</sub>
Gain	0. knots	40. knots	4054 lbf	24702 m	6992 ft	0.°	348 ft/min	1.5 dB <sub>A</sub>



# NADP2-15

747400 100% MTOM

Fixpunktprofil nach AzB

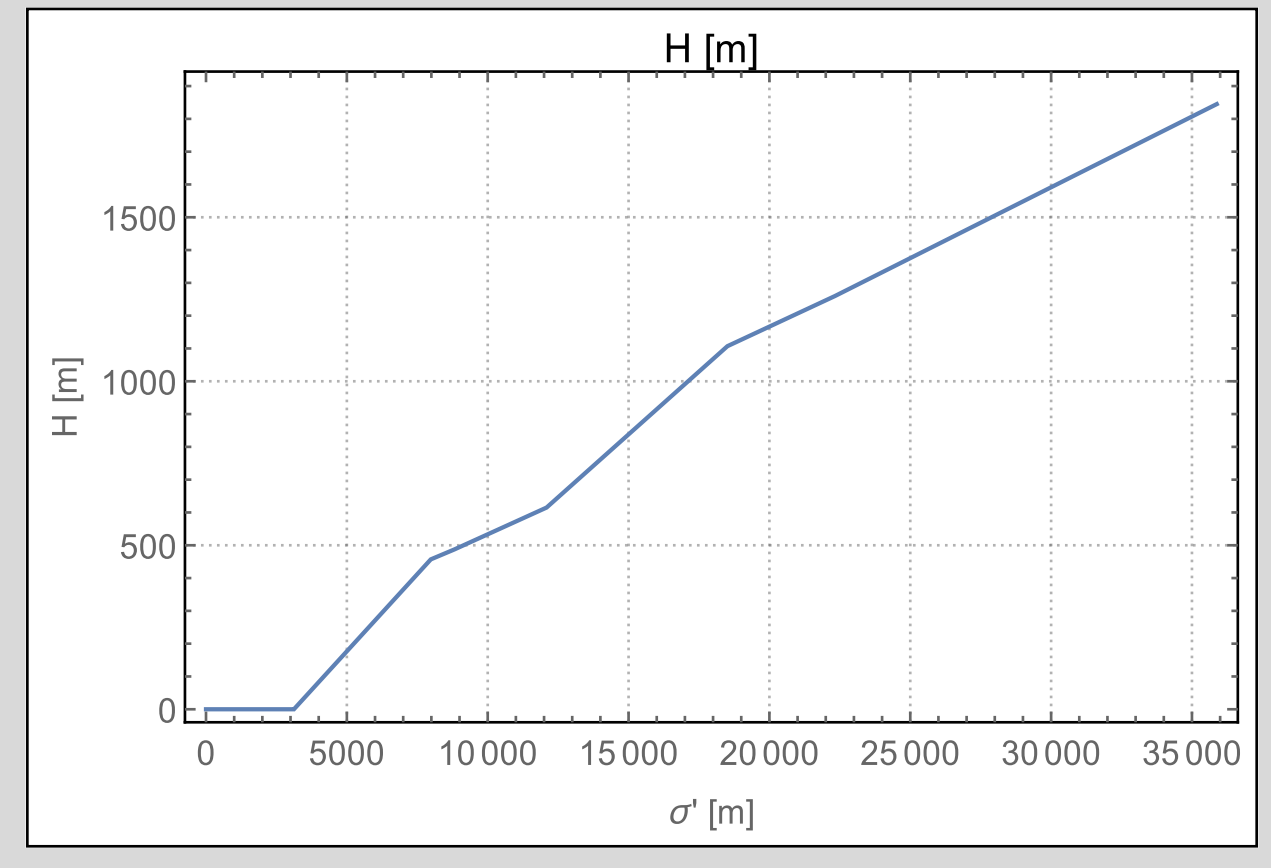
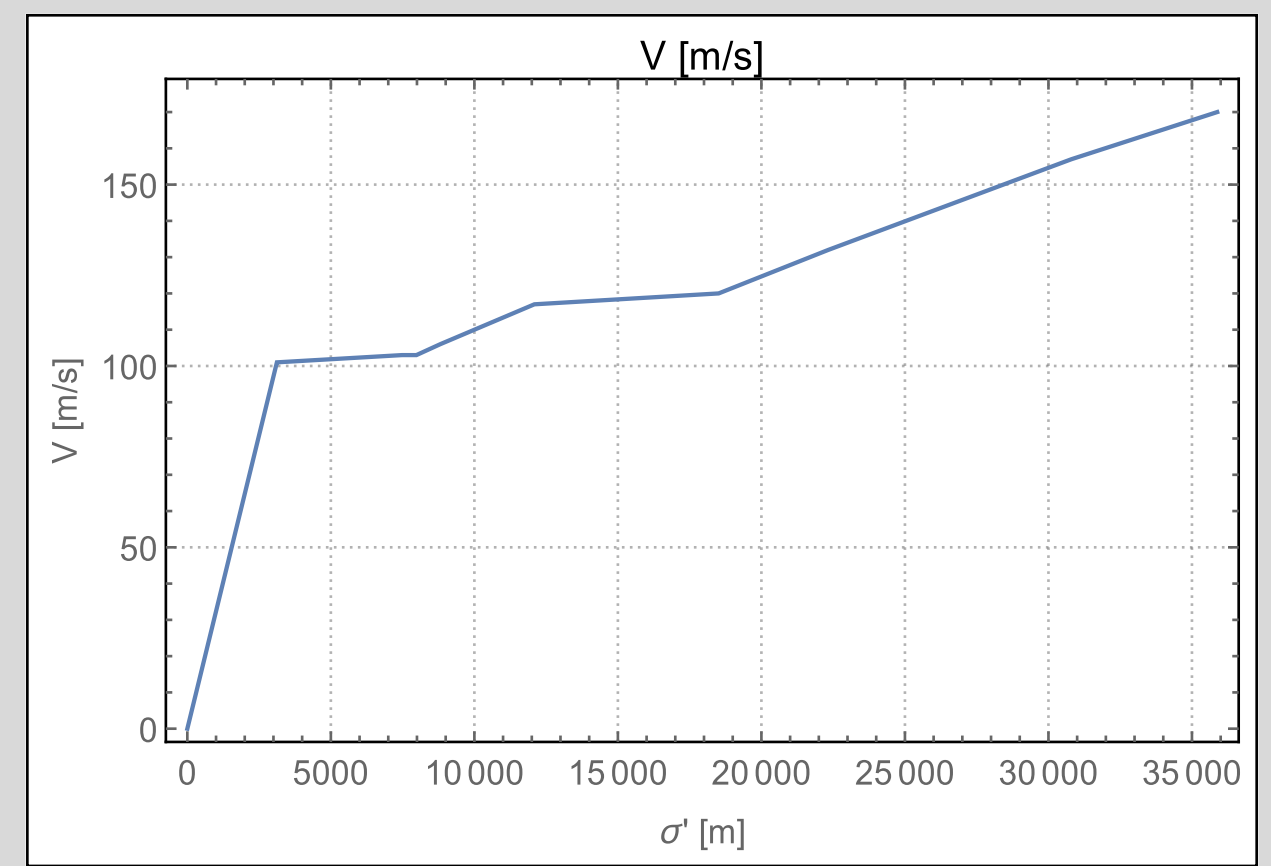
$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3120	-1	101	0
7480	-0,5	103	-
7980	-	103	457
8480	-3	-	-
8810	-3	106	487
12090	-3	117	615
18510	-2,5	120	1107
22330	-3	132	1260
30800	-3	157	1626
35880	-3,5	170	1845

$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 35880	0	0	0,065

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	20.	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	20.	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 10 Speed	ACC	1.	20.	MaxClimb	200.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	10.	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	T_05	MaxClimb	18520.	0.
6	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	240.	0.
7	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	280.	0.
8	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	51 032 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	195. knots	195.9 knots	41 091 lbf	3116 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	195. knots	195.9 knots	-9941 lbf	3116 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	195.9 knots	41 091 lbf	3116 m	328 ft	5.37°	1857 ft/min	-1. dB <sub>A</sub>
End	195. knots	200.3 knots	41 959 lbf	7978 m	1828 ft	5.37°	1898 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	4.4 knots	868 lbf	4862 m	1500 ft	0.°	41 ft/min	0.5 dB <sub>A</sub>

Segment 3 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	200.3 knots	37 010 lbf	7978 m	1828 ft	2.04°	722 ft/min	-2.5 dB <sub>A</sub>
End	200. knots	205.7 knots	36 859 lbf	8807 m	1925 ft	2.04°	742 ft/min	-3. dB <sub>A</sub>
Gain	5. knots	5.4 knots	-151 lbf	829 m	97 ft	0.°	20 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	205.7 knots	36 858 lbf	8807 m	1925 ft	2.23°	811 ft/min	-3. dB <sub>A</sub>
End	220. knots	227.8 knots	36 273 lbf	12 088 m	2345 ft	2.23°	897 ft/min	-3. dB <sub>A</sub>
Gain	20. knots	22.1 knots	-585 lbf	3281 m	420 ft	0.°	86 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.8 knots	36 273 lbf	12 088 m	2345 ft	4.39°	1765 ft/min	-3. dB <sub>A</sub>
End	220. knots	233.3 knots	37 301 lbf	18 510 m	3961 ft	4.39°	1808 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	5.5 knots	1028 lbf	6422 m	1616 ft	0.°	43 ft/min	0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	233.3 knots	37 301 lbf	18 510 m	3961 ft	2.29°	944 ft/min	-2.5 dB <sub>A</sub>
End	240. knots	256.4 knots	36 767 lbf	22 331 m	4462 ft	2.29°	1038 ft/min	-3. dB <sub>A</sub>
Gain	20. knots	23.1 knots	-534 lbf	3821 m	501 ft	0.°	94 ft/min	-0.5 dB <sub>A</sub>

Segment 7 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	256.4 knots	36 767 lbf	22 331 m	4462 ft	2.47°	1119 ft/min	-3. dB <sub>A</sub>
End	280. knots	304.6 knots	35 825 lbf	30 801 m	5662 ft	2.47°	1330 ft/min	-3. dB <sub>A</sub>
Gain	40. knots	48.2 knots	-942 lbf	8470 m	1200 ft	0.°	211 ft/min	0. dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	304.6 knots	35 825 lbf	30 801 m	5662 ft	2.47°	1330 ft/min	-3. dB <sub>A</sub>
End	300. knots	330.1 knots	35 429 lbf	35 879 m	6380 ft	2.47°	1440 ft/min	-3.5 dB <sub>A</sub>
Gain	20. knots	25.5 knots	-396 lbf	5078 m	718 ft	0.°	110 ft/min	-0.5 dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	330.1 knots	35 429 lbf	35 879 m	6380 ft	3.75°	2186 ft/min	-3.5 dB <sub>A</sub>
End	300. knots	380.1 knots	41 118 lbf	77 524 m	15 328 ft	3.75°	2518 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	50. knots	5689 lbf	41 645 m	8948 ft	0.°	332 ft/min	2.5 dB <sub>A</sub>

# NADP2-15

747400 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-4,5	0	0
2150	-4,5	88	0
5720	-4,5	90	-
6220	-	90	457
6680	-4,5	93	483
8570	-4,5	104	594
10610	-5	115	721
11120	-5	118	756
18520	-4	123	1615
20500	-4,5	132	1735
32020	-5	175	2407
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 32020	0	0	0,086

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	20.	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	20.	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 10 Speed	ACC	1.	20.	MaxClimb	175.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	10.	MaxClimb	195.	0.
5	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	215.	0.
6	Accelerate to 220 kt	ACC	0	T_01	MaxClimb	220.	0.
7	Climb to 10NM	CSD	0	T_01	MaxClimb	18520.	0.
8	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	235.	0.
9	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
10	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	40916 lbf	0 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
End	170. knots	170.8 knots	33967 lbf	2147 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
Gain	170. knots	170.8 knots	-6949 lbf	2147 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	33967 lbf	2147 m	328 ft	6.4°	1928 ft/min	-4.5 dB <sub>A</sub>
End	170. knots	174.6 knots	34663 lbf	6222 m	1828 ft	6.4°	1971 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	3.8 knots	696 lbf	4075 m	1500 ft	0.°	43 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	174.6 knots	34663 lbf	6222 m	1828 ft	3.19°	984 ft/min	-4.5 dB <sub>A</sub>
End	175. knots	180. knots	34518 lbf	6681 m	1912 ft	3.19°	1014 ft/min	-4.5 dB <sub>A</sub>
Gain	5. knots	5.4 knots	-145 lbf	459 m	84 ft	0.°	30 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	175. knots	180. knots	34518 lbf	6681 m	1912 ft	3.38°	1075 ft/min	-4.5 dB <sub>A</sub>
End	195. knots	201.7 knots	33953 lbf	8569 m	2278 ft	3.38°	1204 ft/min	-4.5 dB <sub>A</sub>
Gain	20. knots	21.7 knots	-565 lbf	1888 m	366 ft	0.°	129 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	201.7 knots	33954 lbf	8569 m	2278 ft	3.55°	1264 ft/min	-4.5 dB <sub>A</sub>
End	215. knots	223.7 knots	33418 lbf	10613 m	2694 ft	3.55°	1403 ft/min	-5. dB <sub>A</sub>
Gain	20. knots	22. knots	-536 lbf	2044 m	416 ft	0.°	139 ft/min	-0.5 dB <sub>A</sub>

Segment 6 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	215. knots	223.7 knots	33418 lbf	10613 m	2694 ft	3.85°	1521 ft/min	-5. dB <sub>A</sub>
End	220. knots	229.2 knots	33290 lbf	11125 m	2807 ft	3.85°	1559 ft/min	-5. dB <sub>A</sub>
Gain	5. knots	5.5 knots	-128 lbf	512 m	113 ft	0.°	38 ft/min	0. dB <sub>A</sub>

Segment 7 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	229.2 knots	33290 lbf	11125 m	2807 ft	6.63°	2681 ft/min	-5. dB <sub>A</sub>
End	220. knots	239.2 knots	34922 lbf	18516 m	5627 ft	6.63°	2797 ft/min	-4. dB <sub>A</sub>
Gain	0. knots	10. knots	1632 lbf	7391 m	2820 ft	0.°	116 ft/min	1. dB <sub>A</sub>

Segment 8 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

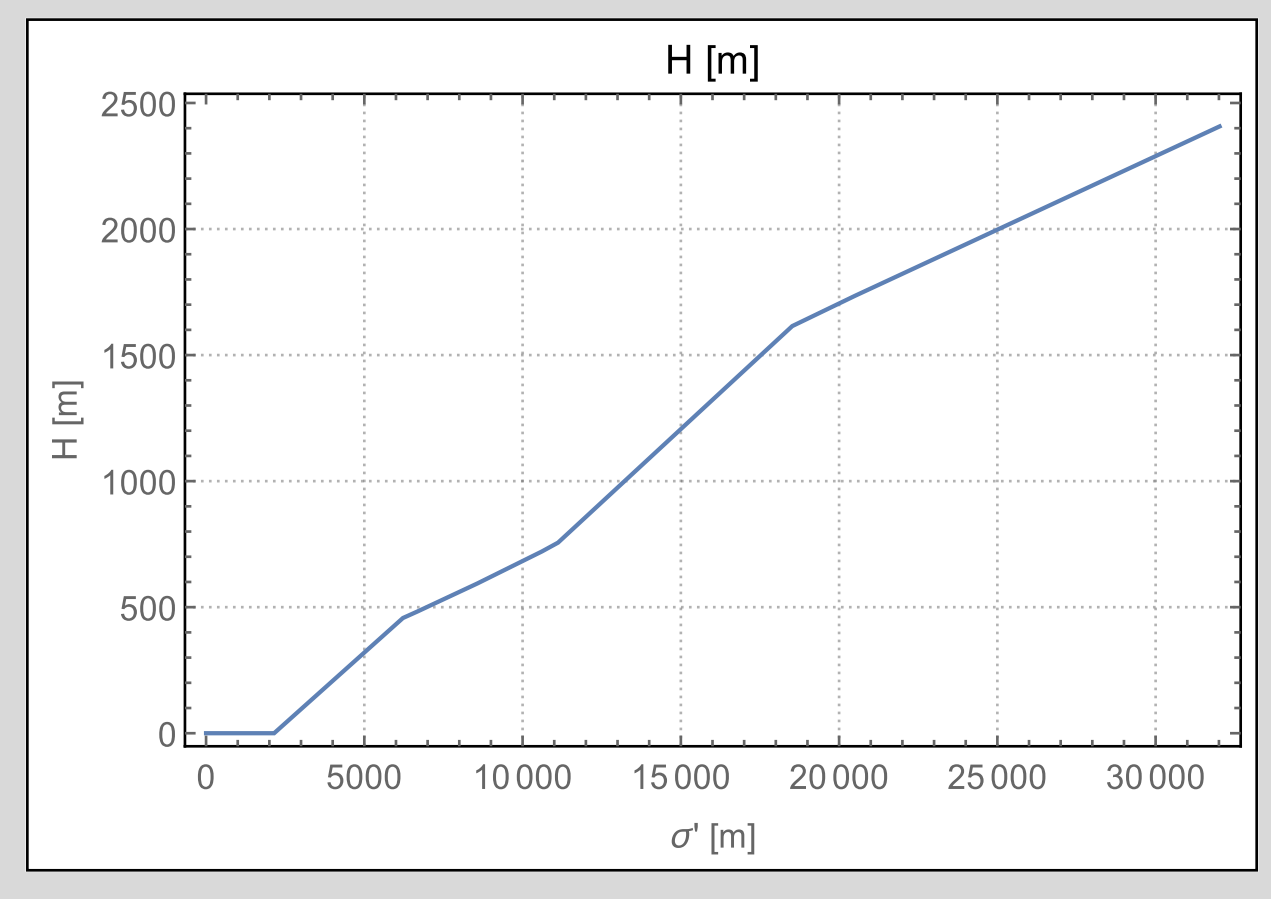
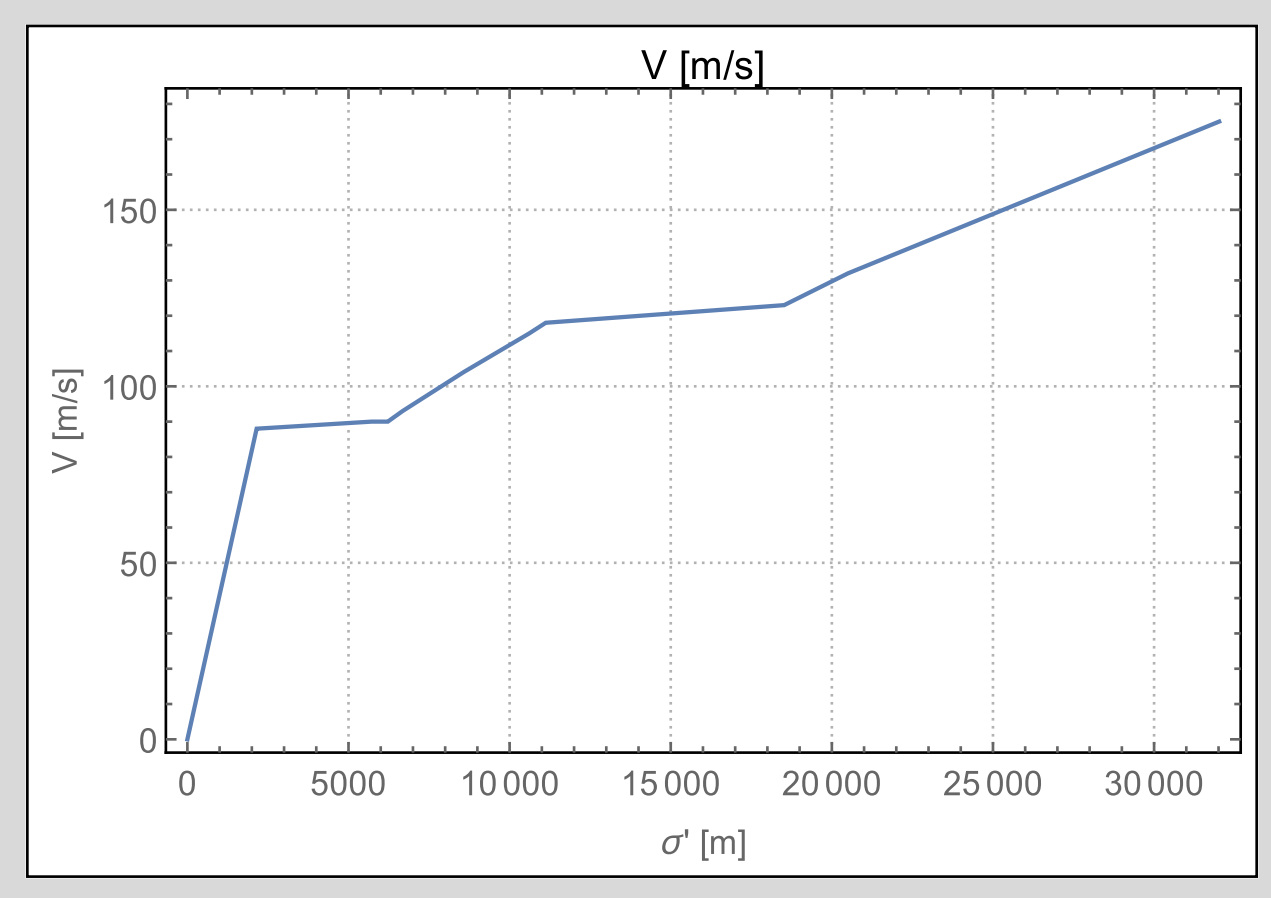
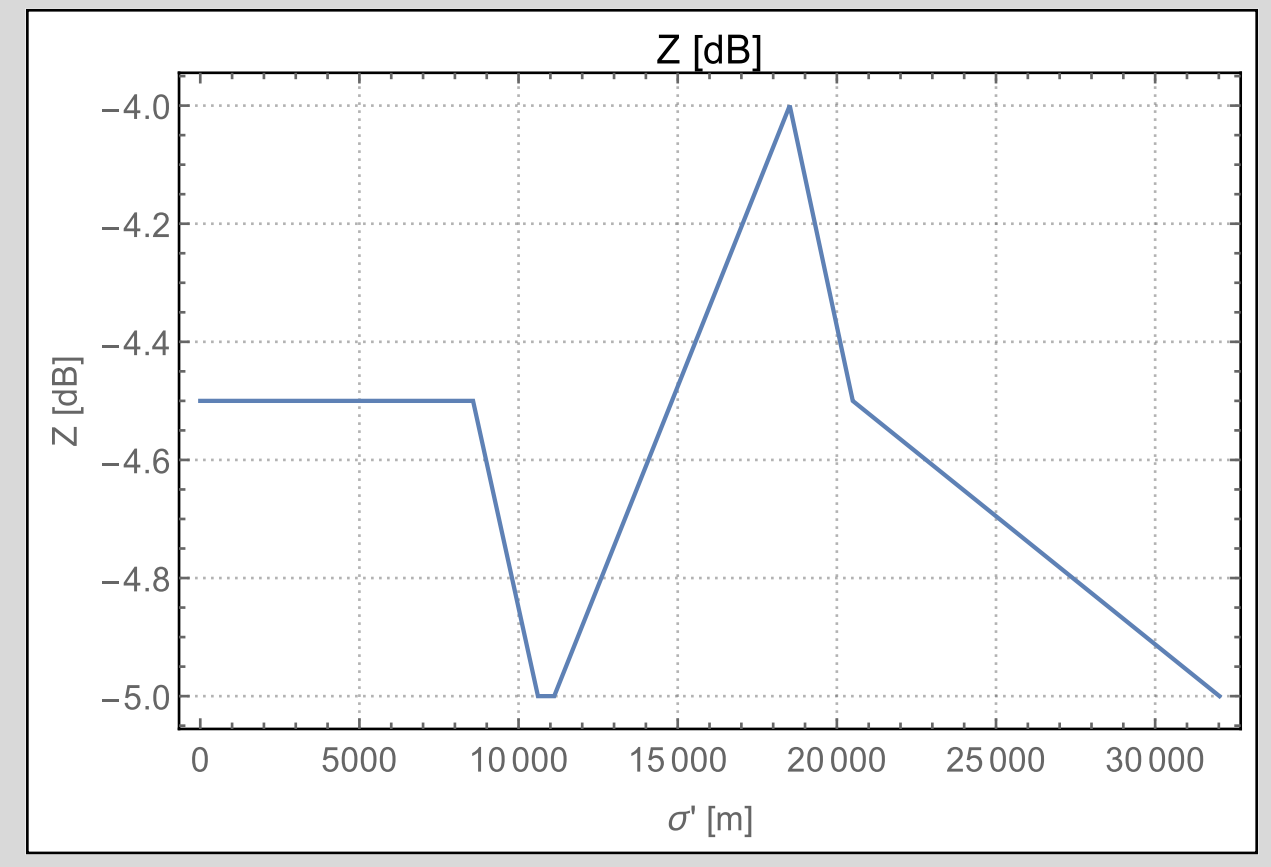
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	239.2 knots	34922 lbf	18516 m	5627 ft	3.46°	1462 ft/min	-4. dB <sub>A</sub>
End	235. knots	257. knots	34568 lbf	20501 m	6021 ft	3.46°	1571 ft/min	-4.5 dB <sub>A</sub>
Gain	15. knots	17.8 knots	-354 lbf	1985 m	394 ft	0.°	109 ft/min	-0.5 dB <sub>A</sub>

Segment 9 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	235. knots	257. knots	34568 lbf	20501 m	6021 ft	3.34°	1517 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	339.5 knots	33322 lbf	32018 m	8224 ft	3.34°	2003 ft/min	-5. dB <sub>A</sub>
Gain	65. knots	82.5 knots	-1246 lbf	11517 m	2203 ft	0.°	486 ft/min	-0.5 dB <sub>A</sub>

Segment 10 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	339.5 knots	33322 lbf	32018 m	8224 ft	4.94°	2961 ft/min	-5. dB <sub>A</sub>
End	300. knots	380.1 knots	37433 lbf	57095 m	15328 ft	4.94°	3315 ft/min	-3.5 dB <sub>A</sub>
Gain	0. knots	40.6 knots	4111 lbf	25077 m	7104 ft	0.°	354 ft/min	1.5 dB <sub>A</sub>



# NADP1

7478 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-0,5	0	0
3210	-0,5	100	0
7150	-0,5	102	-
7650	-	102	457
8150	-2	-	-
13990	-2	105	914
15030	-2	108	952
18420	-2	120	1086
18520	-2	120	1094
22100	-2	132	1247
30460	-2,5	157	1612
35150	-2,5	170	1831
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 35150	0	0	0,068

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	F_20	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	F_20	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	F_20	MaxClimb	3000.	0.
4	Accelerate to Flaps 10 Speed	ACC	0	F_20	MaxClimb	200.	0.
5	Accelerate to Flaps 5 Speed	ACC	0	F_10	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	F_5	MaxClimb	18520.	0.
7	Accelerate to Flaps 1 Speed	ACC	0	F_5	MaxClimb	240.	0.
8	Accelerate to Flaps UP Speed	ACC	0	F_1	MaxClimb	280.	0.
9	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
10	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	62 497 lbf	0 m	328 ft	0.°	0 ft/min	-0.5 dB <sub>A</sub>
End	194. knots	194.9 knots	50 060 lbf	3212 m	328 ft	0.°	0 ft/min	-0.5 dB <sub>A</sub>
Gain	194. knots	194.9 knots	-12 437 lbf	3212 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	194.9 knots	50 060 lbf	3212 m	328 ft	5.88°	2022 ft/min	-0.5 dB <sub>A</sub>
End	194. knots	199.2 knots	50 774 lbf	7652 m	1828 ft	5.88°	2067 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	4.3 knots	714 lbf	4440 m	1500 ft	0.°	45 ft/min	0. dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	199.2 knots	44 279 lbf	7652 m	1828 ft	4.13°	1453 ft/min	-2. dB <sub>A</sub>
End	194. knots	203.8 knots	45 426 lbf	13 989 m	3328 ft	4.13°	1486 ft/min	-2. dB <sub>A</sub>
Gain	0. knots	4.6 knots	1147 lbf	6337 m	1500 ft	0.°	33 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	203.8 knots	45 426 lbf	13 989 m	3328 ft	2.05°	738 ft/min	-2. dB <sub>A</sub>
End	200. knots	210.5 knots	45 278 lbf	15 027 m	3450 ft	2.05°	762 ft/min	-2. dB <sub>A</sub>
Gain	6. knots	6.7 knots	-148 lbf	1038 m	122 ft	0.°	24 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	210.5 knots	45 278 lbf	15 027 m	3450 ft	2.27°	844 ft/min	-2. dB <sub>A</sub>
End	220. knots	233.1 knots	44 804 lbf	18 420 m	3892 ft	2.27°	935 ft/min	-2. dB <sub>A</sub>
Gain	20. knots	22.6 knots	-474 lbf	3393 m	442 ft	0.°	91 ft/min	0. dB <sub>A</sub>

Segment 6 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	233.1 knots	44 804 lbf	18 420 m	3892 ft	4.52°	1860 ft/min	-2. dB <sub>A</sub>
End	220. knots	233.1 knots	44 823 lbf	18 520 m	3918 ft	4.52°	1861 ft/min	-2. dB <sub>A</sub>
Gain	0. knots	0. knots	19 lbf	100 m	26 ft	0.°	1 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	233.1 knots	44 823 lbf	18 520 m	3918 ft	2.44°	1005 ft/min	-2. dB <sub>A</sub>
End	240. knots	256.3 knots	44 385 lbf	22 101 m	4419 ft	2.44°	1105 ft/min	-2. dB <sub>A</sub>
Gain	20. knots	23.2 knots	-438 lbf	3581 m	501 ft	0.°	100 ft/min	0. dB <sub>A</sub>

Segment 8 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

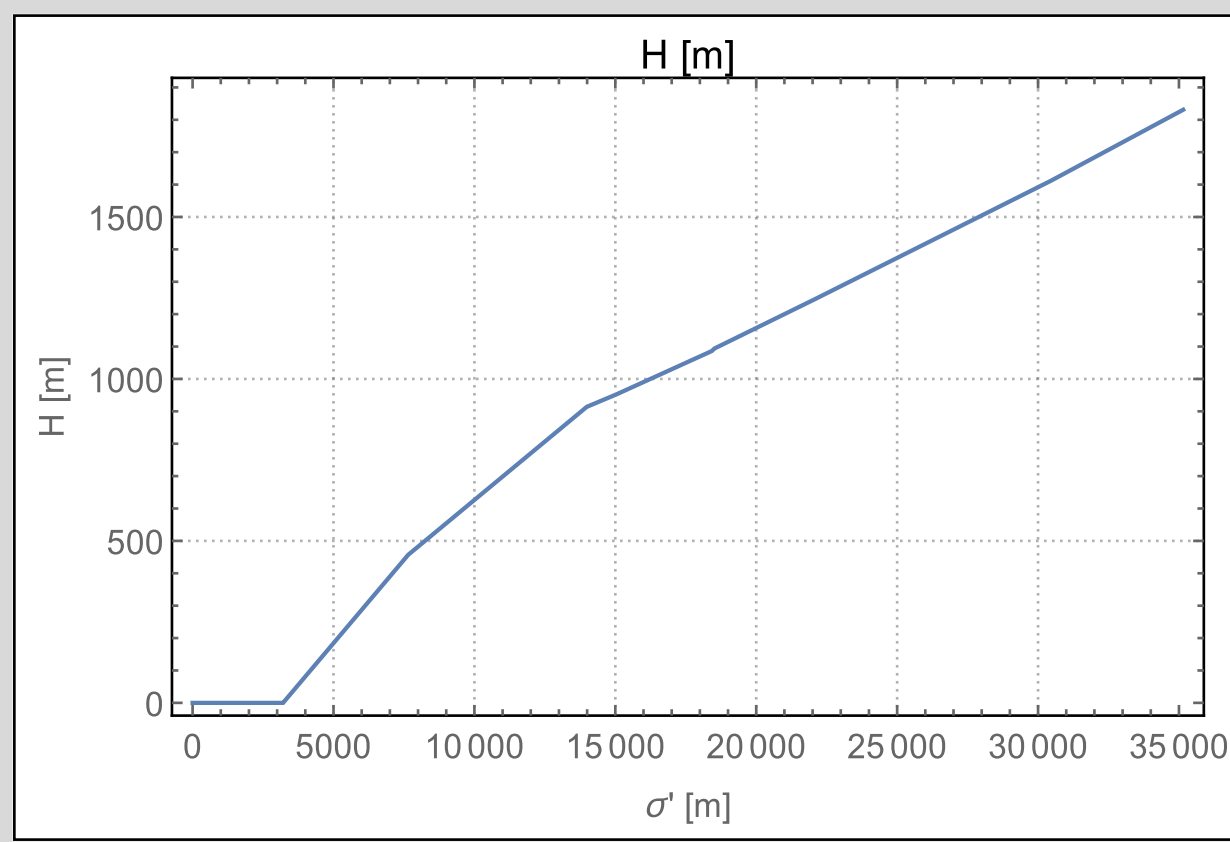
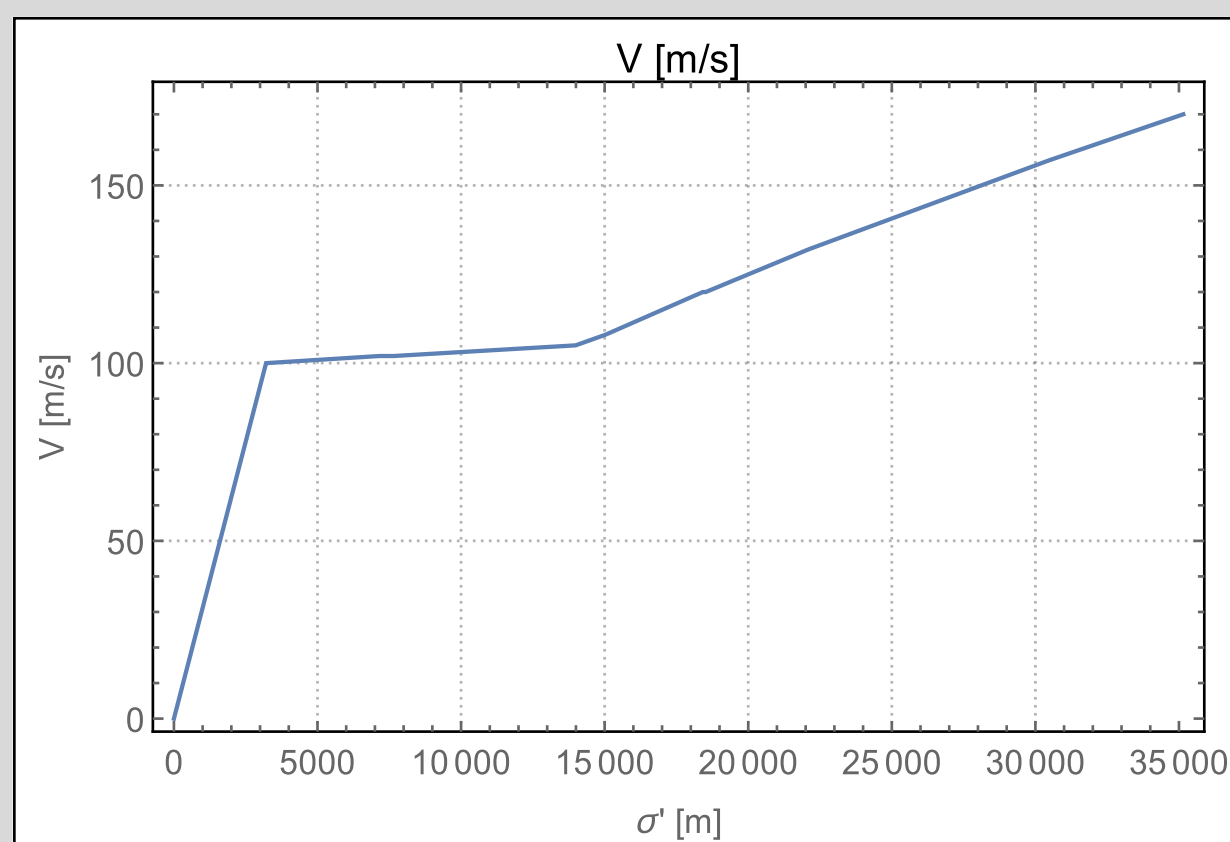
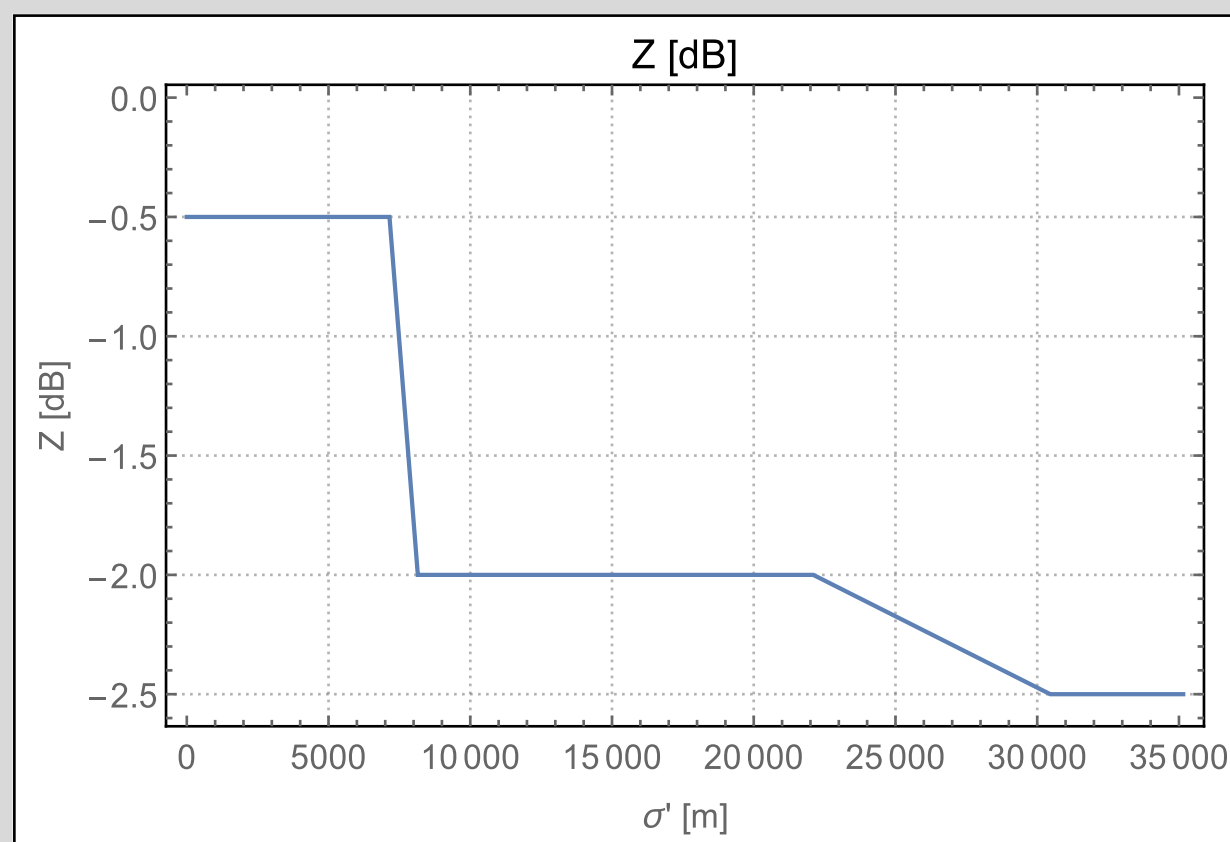
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	256.3 knots	44 385 lbf	22 101 m	4419 ft	2.5°	1132 ft/min	-2. dB <sub>A</sub>
End	280. knots	304.4 knots	43 620 lbf	30 458 m	5618 ft	2.5°	1345 ft/min	-2.5 dB <sub>A</sub>
Gain	40. knots	48.1 knots	-765 lbf	8357 m	1199 ft	0.°	213 ft/min	-0.5 dB <sub>A</sub>

Segment 9 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	304.4 knots	43 620 lbf	30 458 m	5618 ft	2.67°	1436 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	329.7 knots	43 298 lbf	35 153 m	6335 ft	2.67°	1556 ft/min	-2.5 dB <sub>A</sub>
Gain	20. knots	25.3 knots	-322 lbf	4695 m	717 ft	0.°	120 ft/min	0. dB <sub>A</sub>

Segment 10 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	329.7 knots	43 298 lbf	35 153 m	6335 ft	3.9°	2271 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	380.1 knots	47 952 lbf	75 330 m	15 328 ft	3.9°	2618 ft/min	-1.5 dB <sub>A</sub>
Gain	0. knots	50.4 knots	4654 lbf	40 177 m	8993 ft	0.°	347 ft/min	1. dB <sub>A</sub>



# NADP1

7478 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-3	0	0
2140	-3	89	0
5170	-3	91	-
5670	-	91	457
6170	-3	-	-
9420	-3	93	914
9780	-3	95	936
11590	-3	107	1054
13580	-3	118	1188
13990	-3	121	1217
18520	-3	124	1775
23450	-3	147	2088
31170	-3	176	2583
$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 31170	0	0	0,096

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	F_20	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	F_20	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	F_20	MaxClimb	3000.	0.
4	Accelerate to Flaps 10 Speed	ACC	0	F_20	MaxClimb	176.	0.
5	Accelerate to Flaps 5 Speed	ACC	0	F_10	MaxClimb	196.	0.
6	Accelerate to Flaps 1 Speed	ACC	0	F_5	MaxClimb	216.	0.
7	Accelerate to 220 kt	ACC	0	F_1	MaxClimb	220.	0.
8	Climb to 10NM	CSD	0	F_1	MaxClimb	18520.	0.
9	Accelerate to Flaps UP Speed	ACC	0	F_1	MaxClimb	256.	0.
10	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
11	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	51931 lbf	0 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
End	172. knots	172.8 knots	42769 lbf	2138 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
Gain	172. knots	172.8 knots	-9162 lbf	2138 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	172.8 knots	42769 lbf	2138 m	328 ft	7.38°	2248 ft/min	-3. dB <sub>A</sub>
End	172. knots	176.7 knots	43362 lbf	5666 m	1828 ft	7.38°	2298 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	3.9 knots	593 lbf	3528 m	1500 ft	0.°	50 ft/min	0. dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	176.7 knots	43362 lbf	5666 m	1828 ft	6.94°	2162 ft/min	-3. dB <sub>A</sub>
End	172. knots	180.7 knots	44464 lbf	9420 m	3328 ft	6.94°	2211 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	4. knots	1102 lbf	3754 m	1500 ft	0.°	49 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	180.7 knots	44464 lbf	9420 m	3328 ft	3.48°	1111 ft/min	-3. dB <sub>A</sub>
End	176. knots	185.1 knots	44362 lbf	9776 m	3399 ft	3.48°	1138 ft/min	-3. dB <sub>A</sub>
Gain	4. knots	4.4 knots	-102 lbf	356 m	71 ft	0.°	27 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	185.1 knots	44361 lbf	9776 m	3399 ft	3.71°	1213 ft/min	-3. dB <sub>A</sub>
End	196. knots	207.3 knots	43868 lbf	11591 m	3785 ft	3.71°	1358 ft/min	-3. dB <sub>A</sub>
Gain	20. knots	22.2 knots	-493 lbf	1815 m	386 ft	0.°	145 ft/min	0. dB <sub>A</sub>

Segment 6 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	196. knots	207.3 knots	43868 lbf	11591 m	3785 ft	3.86°	1413 ft/min	-3. dB <sub>A</sub>
End	216. knots	230. knots	43408 lbf	13579 m	4225 ft	3.86°	1568 ft/min	-3. dB <sub>A</sub>
Gain	20. knots	22.7 knots	-460 lbf	1988 m	440 ft	0.°	155 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	216. knots	230. knots	43408 lbf	13579 m	4225 ft	4.02°	1633 ft/min	-3. dB <sub>A</sub>
End	220. knots	234.5 knots	43320 lbf	13991 m	4320 ft	4.02°	1665 ft/min	-3. dB <sub>A</sub>
Gain	4. knots	4.5 knots	-88 lbf	412 m	95 ft	0.°	32 ft/min	0. dB <sub>A</sub>

Segment 8 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.5 knots	43320 lbf	13991 m	4320 ft	7.03°	2907 ft/min	-3. dB <sub>A</sub>
End	220. knots	241.2 knots	44524 lbf	18515 m	6150 ft	7.03°	2989 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	6.7 knots	1204 lbf	4524 m	1830 ft	0.°	82 ft/min	0. dB <sub>A</sub>

Segment 9 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

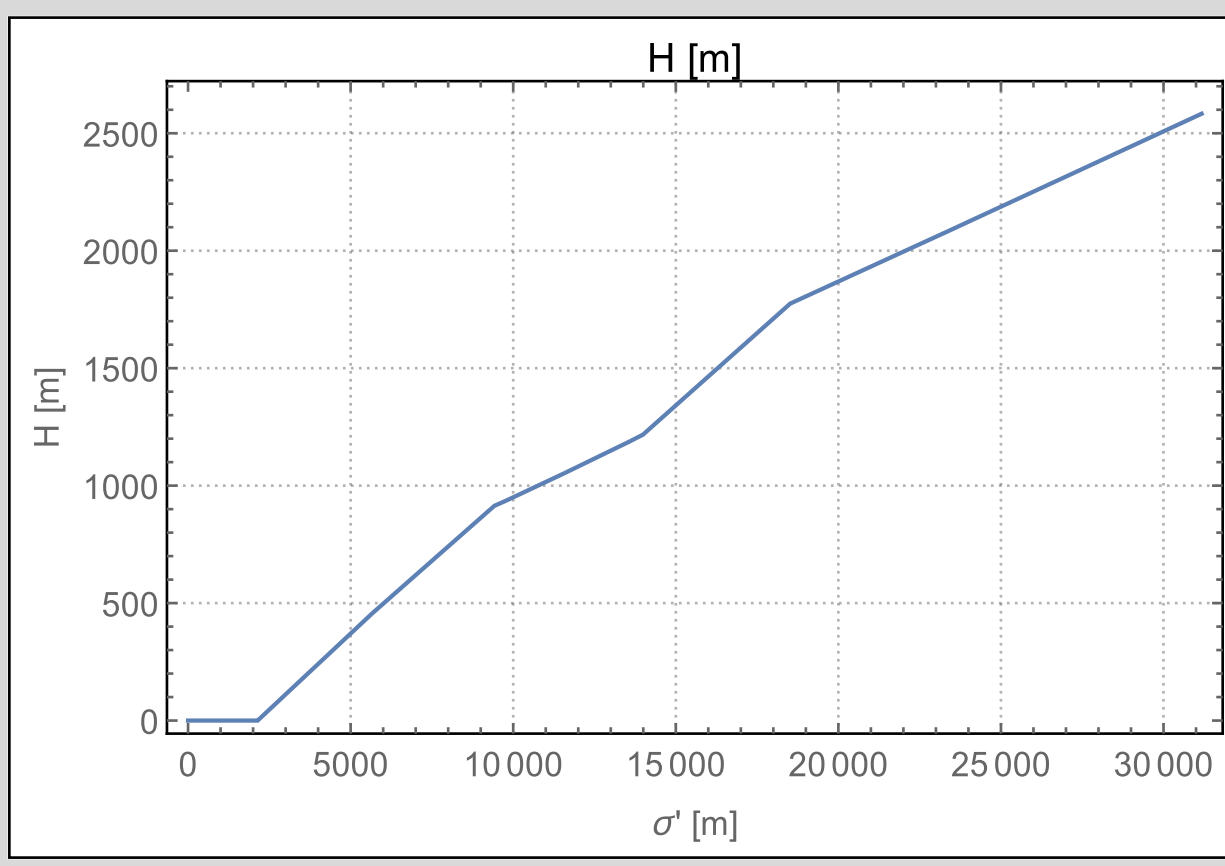
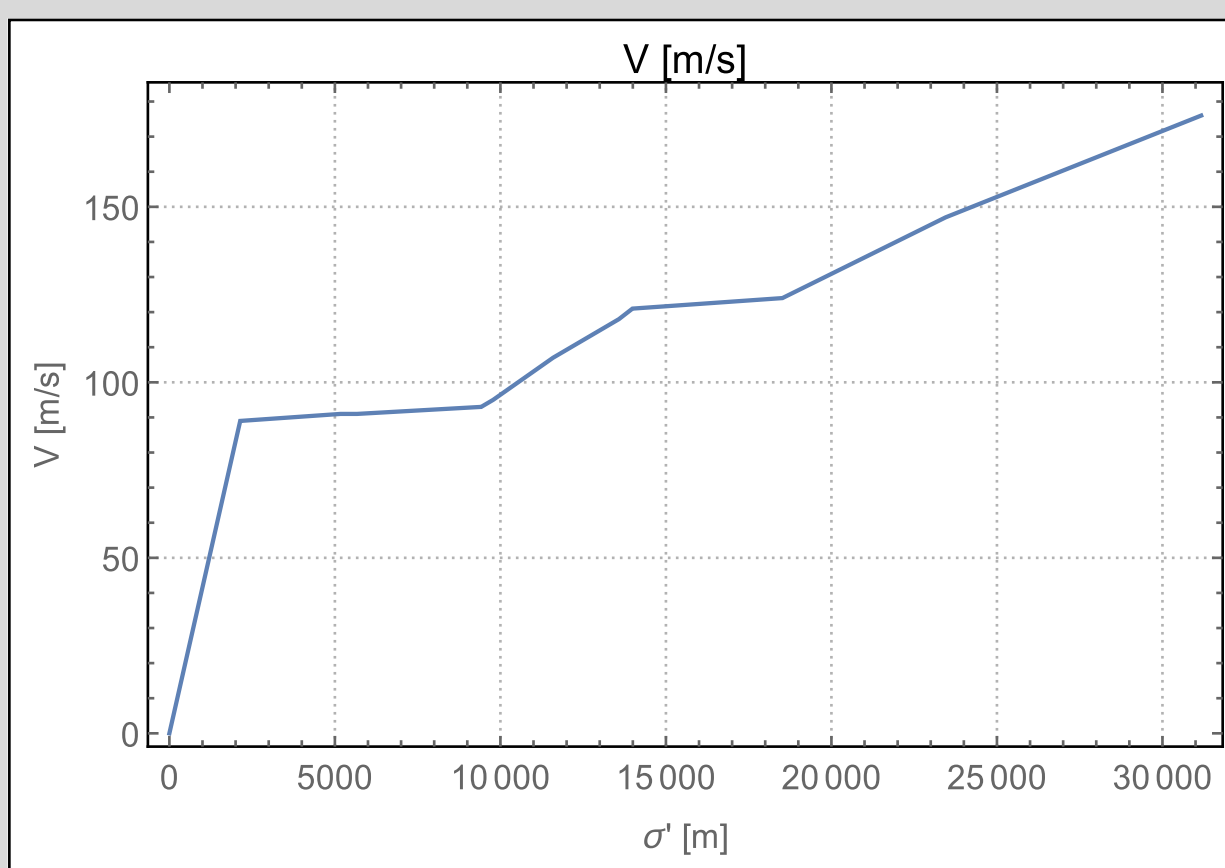
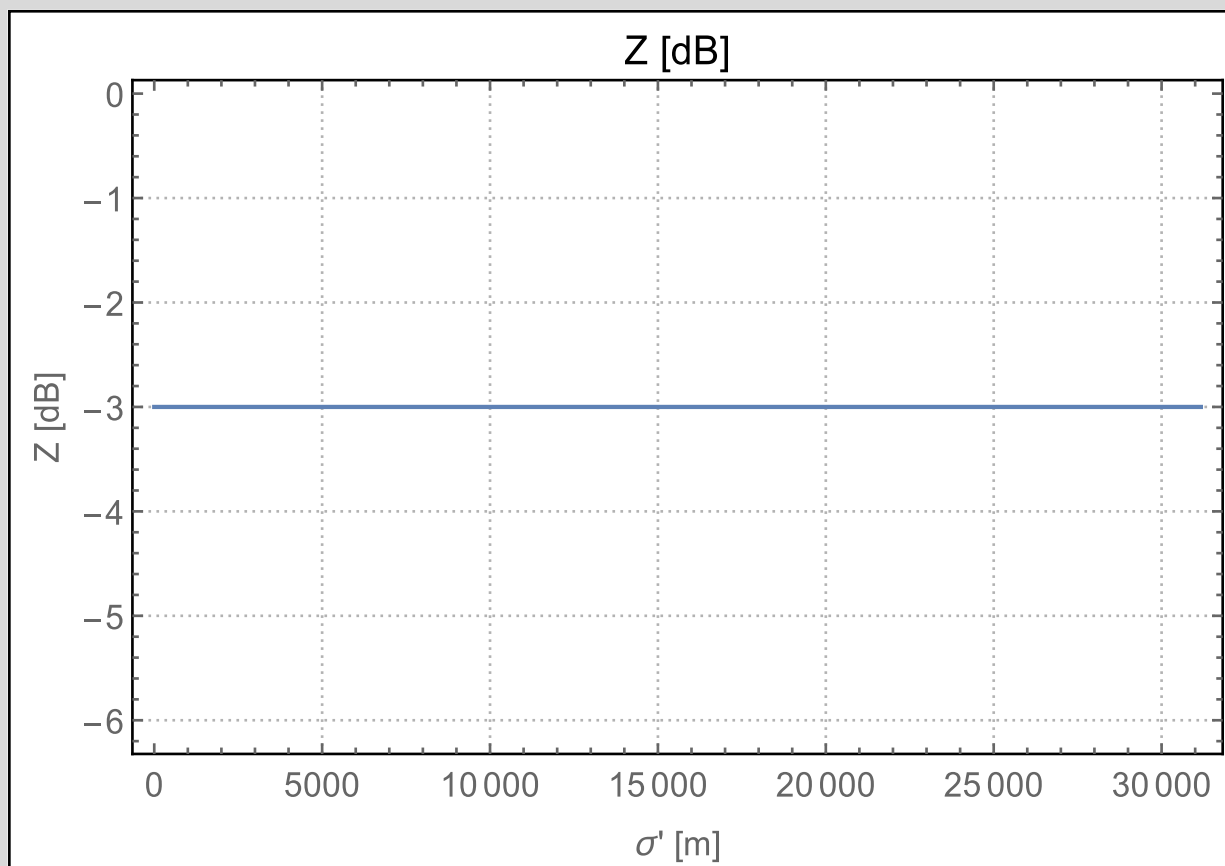
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	241.2 knots	44524 lbf	18515 m	6150 ft	3.63°	1546 ft/min	-3. dB <sub>A</sub>
End	256. knots	285. knots	43780 lbf	23448 m	7177 ft	3.63°	1828 ft/min	-3. dB <sub>A</sub>
Gain	36. knots	43.8 knots	-744 lbf	4933 m	1027 ft	0.°	282 ft/min	0. dB <sub>A</sub>

Segment 10 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	256. knots	285. knots	43780 lbf	23448 m	7177 ft	3.67°	1848 ft/min	-3. dB <sub>A</sub>
End	300. knots	342.5 knots	43035 lbf	31170 m	8801 ft	3.67°	2221 ft/min	-3. dB <sub>A</sub>
Gain	44. knots	57.5 knots	-745 lbf	7722 m	1624 ft	0.°	373 ft/min	0. dB <sub>A</sub>

Segment 11 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	342.5 knots	43035 lbf	31170 m	8801 ft	5.47°	3307 ft/min	-3. dB <sub>A</sub>
End	300. knots	380.1 knots	46047 lbf	51949 m	15328 ft	5.47°	3669 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	37.6 knots	3012 lbf	20779 m	6527 ft	0.°	362 ft/min	0.5 dB <sub>A</sub>



# NADP2-10

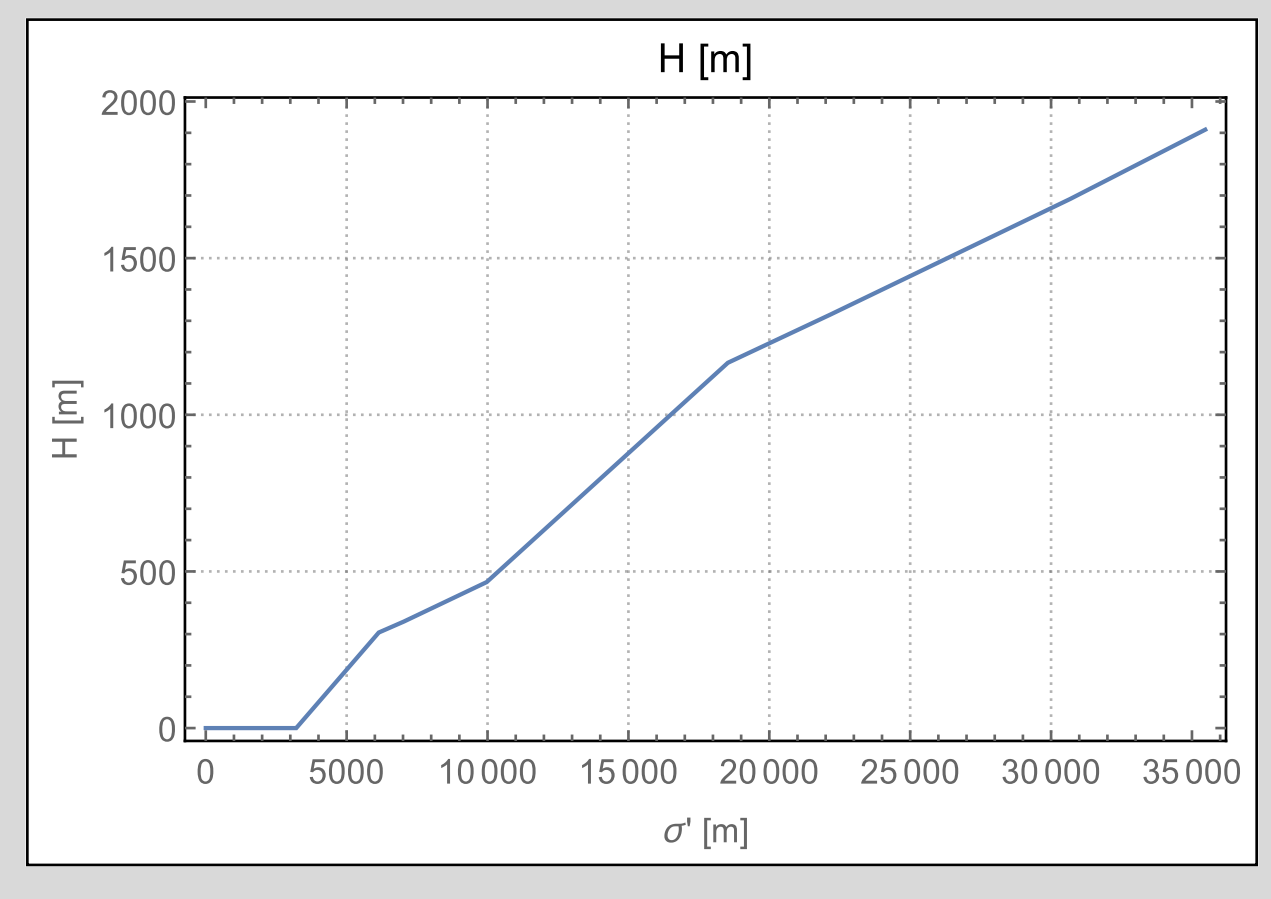
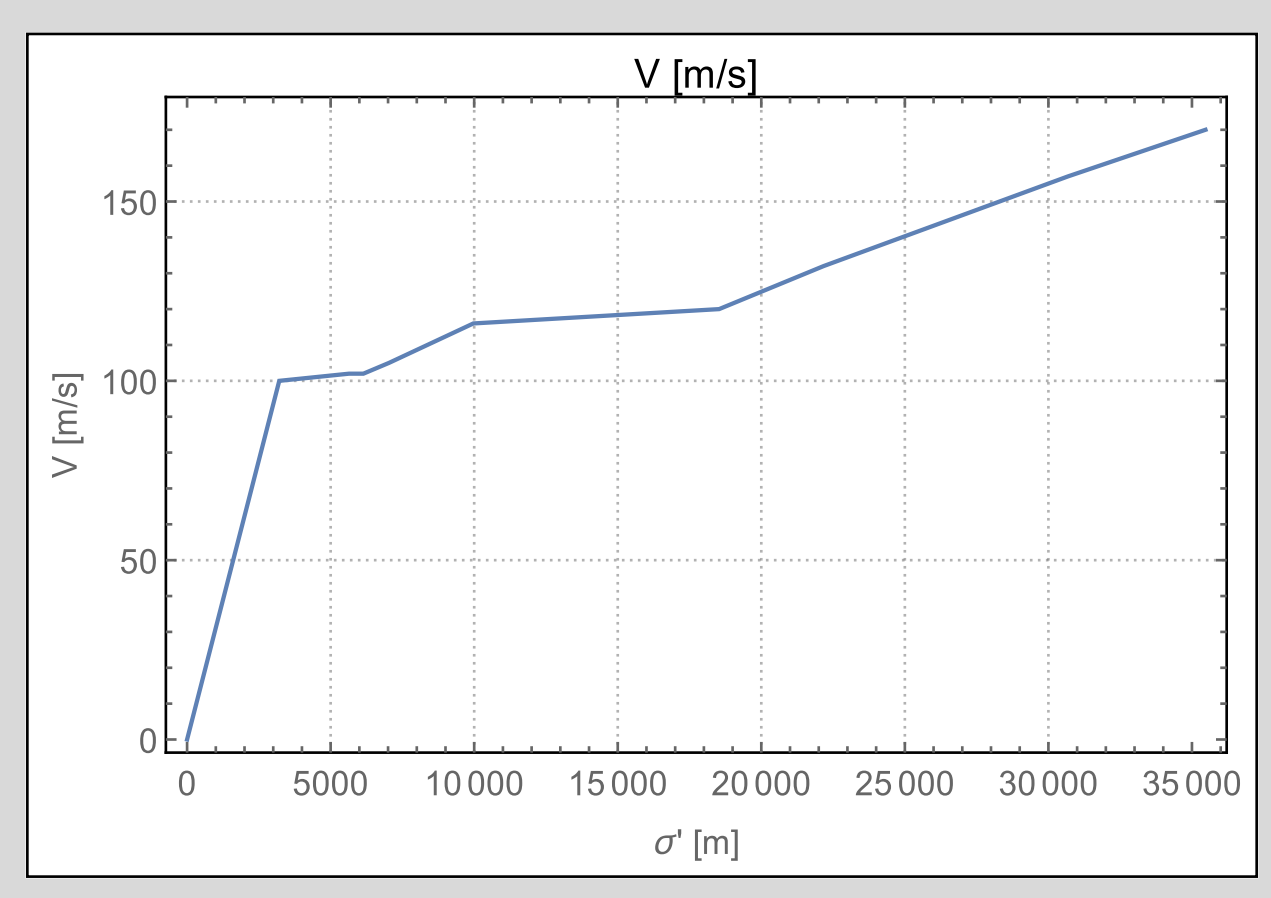
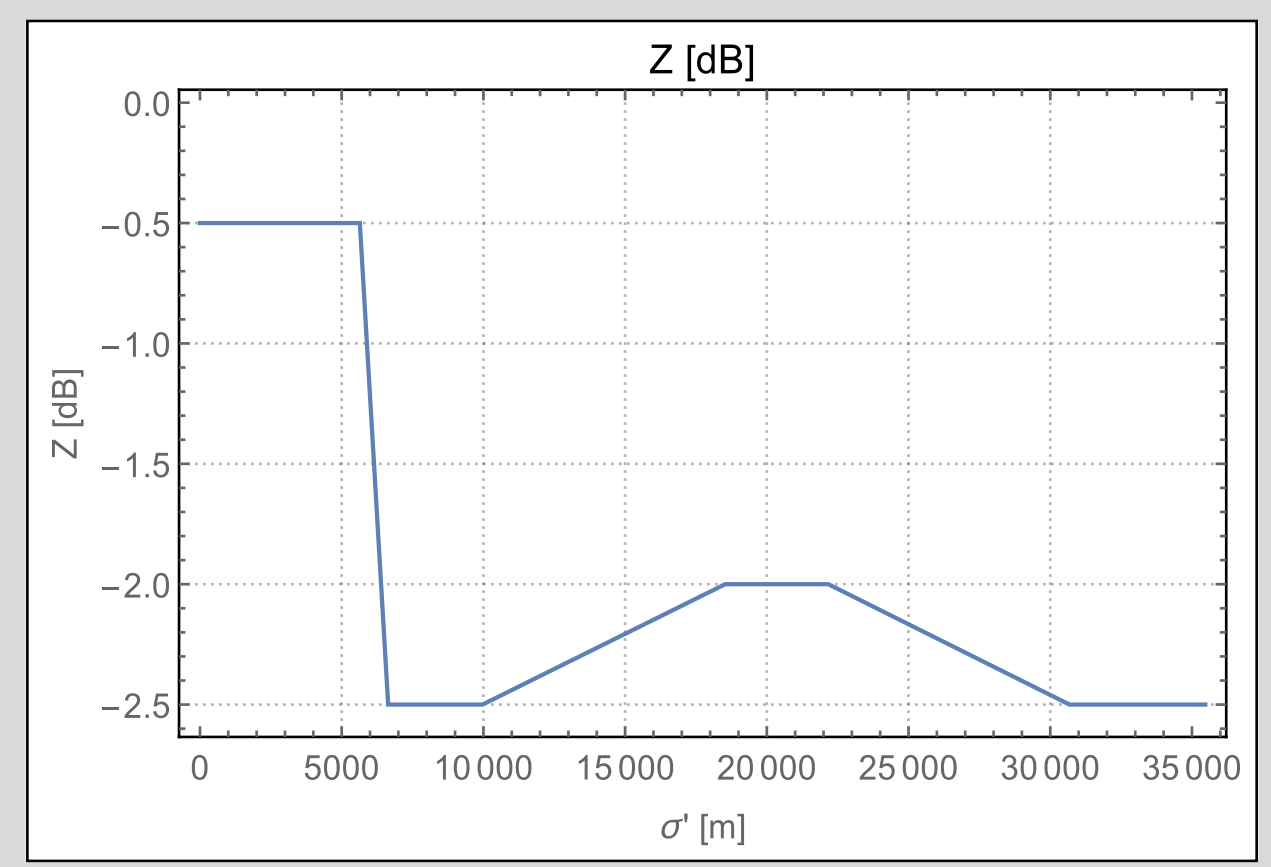
7478 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-0,5	0	0
3210	-0,5	100	0
5640	-0,5	102	-
6140	-	102	305
6640	-2,5	-	-
7030	-2,5	105	340
9970	-2,5	116	466
18530	-2	120	1166
22170	-2	132	1320
30680	-2,5	157	1689
35470	-2,5	170	1910
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 35470	0	0	0,068

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	F_20	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	F_20	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 10 Speed	ACC	1.	F_20	MaxClimb	200.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	F_10	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	F_5	MaxClimb	18520.	0.
6	Accelerate to Flaps 1 Speed	ACC	0	F_5	MaxClimb	240.	0.
7	Accelerate to Flaps UP Speed	ACC	0	F_1	MaxClimb	280.	0.
8	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	62 497 lbf	0 m	328 ft	0.°	0 ft/min	-0.5 dB <sub>A</sub>
End	194. knots	194.9 knots	50 060 lbf	3212 m	328 ft	0.°	0 ft/min	-0.5 dB <sub>A</sub>
Gain	194. knots	194.9 knots	-12 437 lbf	3212 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	194.9 knots	50 060 lbf	3212 m	328 ft	5.95°	2046 ft/min	-0.5 dB <sub>A</sub>
End	194. knots	197.8 knots	50 534 lbf	6136 m	1328 ft	5.95°	2077 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	2.9 knots	474 lbf	2924 m	1000 ft	0.°	31 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	197.8 knots	43 881 lbf	6136 m	1328 ft	2.25°	786 ft/min	-2.5 dB <sub>A</sub>
End	200. knots	204.2 knots	43 734 lbf	7030 m	1443 ft	2.25°	812 ft/min	-2.5 dB <sub>A</sub>
Gain	6. knots	6.4 knots	-147 lbf	894 m	115 ft	0.°	26 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	204.2 knots	43 734 lbf	7030 m	1443 ft	2.46°	888 ft/min	-2.5 dB <sub>A</sub>
End	220. knots	226.1 knots	43 265 lbf	9971 m	1857 ft	2.46°	983 ft/min	-2.5 dB <sub>A</sub>
Gain	20. knots	21.9 knots	-469 lbf	2941 m	414 ft	0.°	95 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	226.1 knots	43 265 lbf	9971 m	1857 ft	4.68°	1868 ft/min	-2.5 dB <sub>A</sub>
End	220. knots	234. knots	44 992 lbf	18 527 m	4153 ft	4.68°	1933 ft/min	-2. dB <sub>A</sub>
Gain	0. knots	7.9 knots	1727 lbf	8556 m	2296 ft	0.°	65 ft/min	0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234. knots	44 992 lbf	18 527 m	4153 ft	2.42°	1000 ft/min	-2. dB <sub>A</sub>
End	240. knots	257.2 knots	44 554 lbf	22 173 m	4658 ft	2.42°	1100 ft/min	-2. dB <sub>A</sub>
Gain	20. knots	23.2 knots	-438 lbf	3646 m	505 ft	0.°	100 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	257.2 knots	44 554 lbf	22 173 m	4658 ft	2.48°	1127 ft/min	-2. dB <sub>A</sub>
End	280. knots	305.7 knots	43 788 lbf	30 685 m	5869 ft	2.48°	1339 ft/min	-2.5 dB <sub>A</sub>
Gain	40. knots	48.5 knots	-766 lbf	8512 m	1211 ft	0.°	212 ft/min	-0.5 dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	305.7 knots	43 788 lbf	30 685 m	5869 ft	2.64°	1425 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	331.1 knots	43 466 lbf	35 472 m	6594 ft	2.64°	1544 ft/min	-2.5 dB <sub>A</sub>
Gain	20. knots	25.4 knots	-322 lbf	4787 m	725 ft	0.°	119 ft/min	0. dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	331.1 knots	43 466 lbf	35 472 m	6594 ft	3.88°	2269 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	380.1 knots	47 952 lbf	74 775 m	15 328 ft	3.88°	2605 ft/min	-1.5 dB <sub>A</sub>
Gain	0. knots	49. knots	4486 lbf	39 303 m	8734 ft	0.°	336 ft/min	1. dB <sub>A</sub>

# NADP2-10

7478 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-3	0	0
2140	-3	89	0
3960	-3	90	-
4460	-	90	305
4770	-3	92	325
6360	-3,5	103	436
8100	-3,5	115	561
8460	-3,5	117	589
18490	-2,5	125	1870
23500	-3	147	2187
31370	-3	177	2688
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 31370	0	0	0,096

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	F_20	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	F_20	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 10 Speed	ACC	1.	F_20	MaxClimb	176.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	F_10	MaxClimb	196.	0.
5	Accelerate to Flaps 1 Speed	ACC	0	F_5	MaxClimb	216.	0.
6	Accelerate to 220 kt	ACC	0	F_1	MaxClimb	220.	0.
7	Climb to 10NM	CSD	0	F_1	MaxClimb	18520.	0.
8	Accelerate to Flaps UP Speed	ACC	0	F_1	MaxClimb	256.	0.
9	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
10	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	51931 lbf	0 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
End	172. knots	172.8 knots	42769 lbf	2138 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
Gain	172. knots	172.8 knots	-9162 lbf	2138 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	172.8 knots	42769 lbf	2138 m	328 ft	7.47°	2275 ft/min	-3. dB <sub>A</sub>
End	172. knots	175.4 knots	43163 lbf	4464 m	1328 ft	7.47°	2309 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	2.6 knots	394 lbf	2326 m	1000 ft	0.°	34 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	175.4 knots	43163 lbf	4464 m	1328 ft	3.77°	1168 ft/min	-3. dB <sub>A</sub>
End	176. knots	179.6 knots	43061 lbf	4774 m	1395 ft	3.77°	1196 ft/min	-3. dB <sub>A</sub>
Gain	4. knots	4.2 knots	-102 lbf	310 m	67 ft	0.°	28 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	179.6 knots	43061 lbf	4774 m	1395 ft	3.98°	1263 ft/min	-3. dB <sub>A</sub>
End	196. knots	201.1 knots	42570 lbf	6363 m	1758 ft	3.98°	1414 ft/min	-3.5 dB <sub>A</sub>
Gain	20. knots	21.5 knots	-491 lbf	1589 m	363 ft	0.°	151 ft/min	-0.5 dB <sub>A</sub>

Segment 5 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	196. knots	201.1 knots	42570 lbf	6363 m	1758 ft	4.13°	1467 ft/min	-3.5 dB <sub>A</sub>
End	216. knots	223. knots	42113 lbf	8102 m	2170 ft	4.13°	1626 ft/min	-3.5 dB <sub>A</sub>
Gain	20. knots	21.9 knots	-457 lbf	1739 m	412 ft	0.°	159 ft/min	0. dB <sub>A</sub>

Segment 6 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	216. knots	223. knots	42113 lbf	8102 m	2170 ft	4.3°	1693 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	227.4 knots	42025 lbf	8463 m	2259 ft	4.3°	1727 ft/min	-3.5 dB <sub>A</sub>
Gain	4. knots	4.4 knots	-88 lbf	361 m	89 ft	0.°	34 ft/min	0. dB <sub>A</sub>

Segment 7 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.4 knots	42026 lbf	8463 m	2259 ft	7.28°	2918 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	242.4 knots	44910 lbf	18488 m	6462 ft	7.28°	3110 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	15. knots	2884 lbf	10025 m	4203 ft	0.°	192 ft/min	1. dB <sub>A</sub>

Segment 8 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

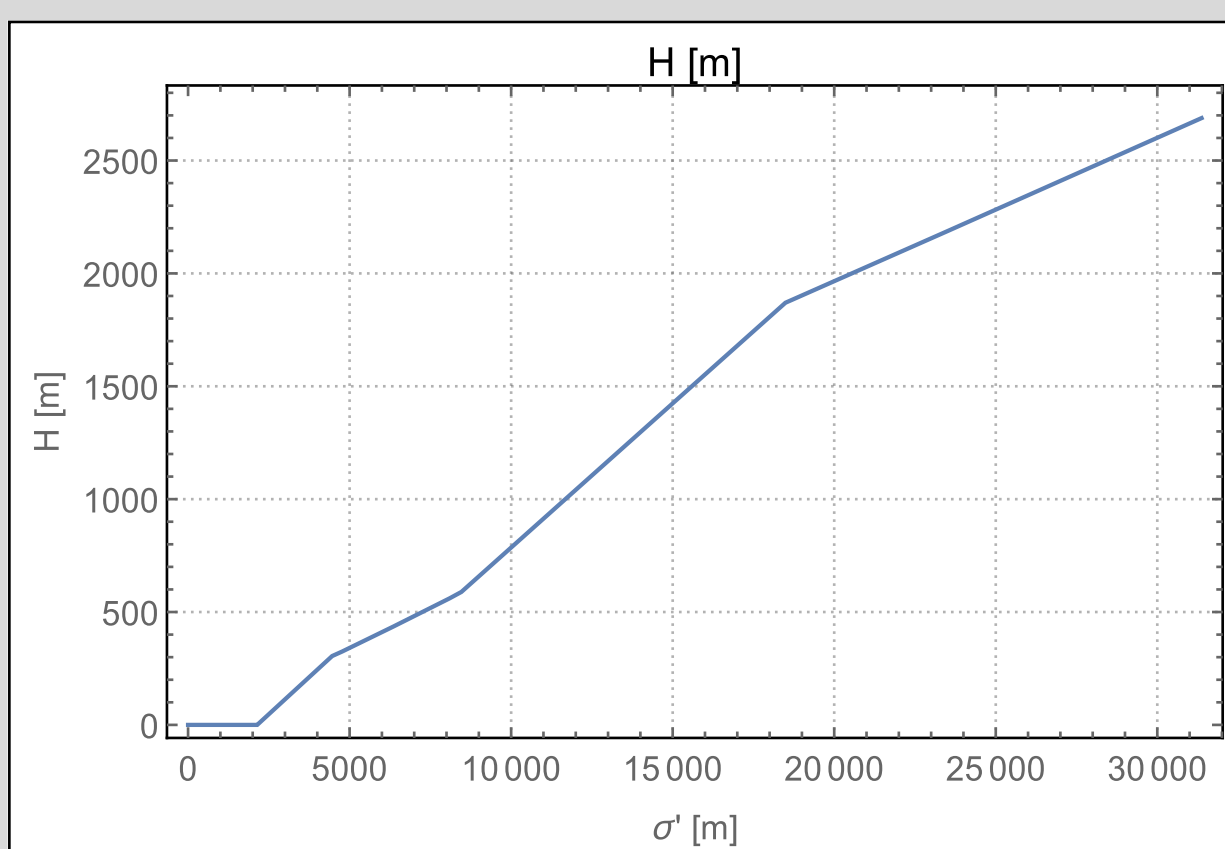
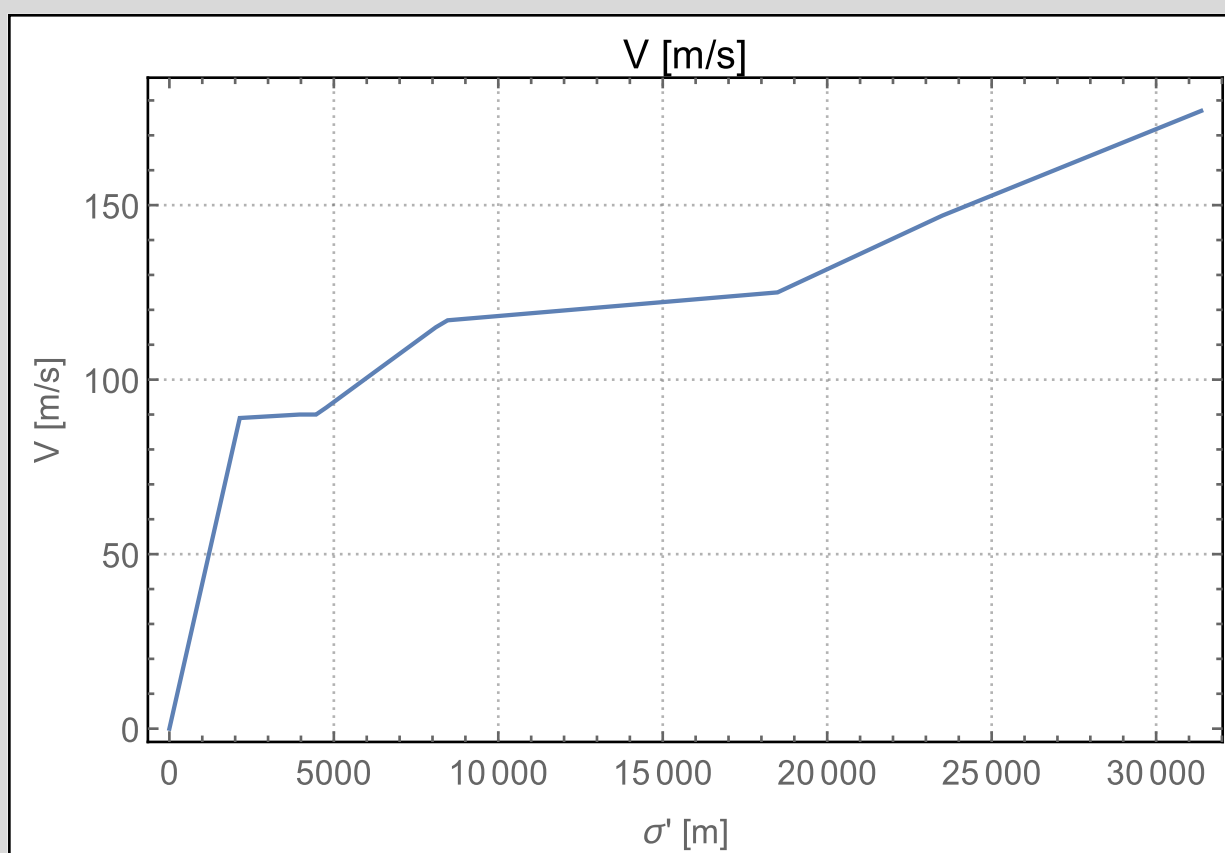
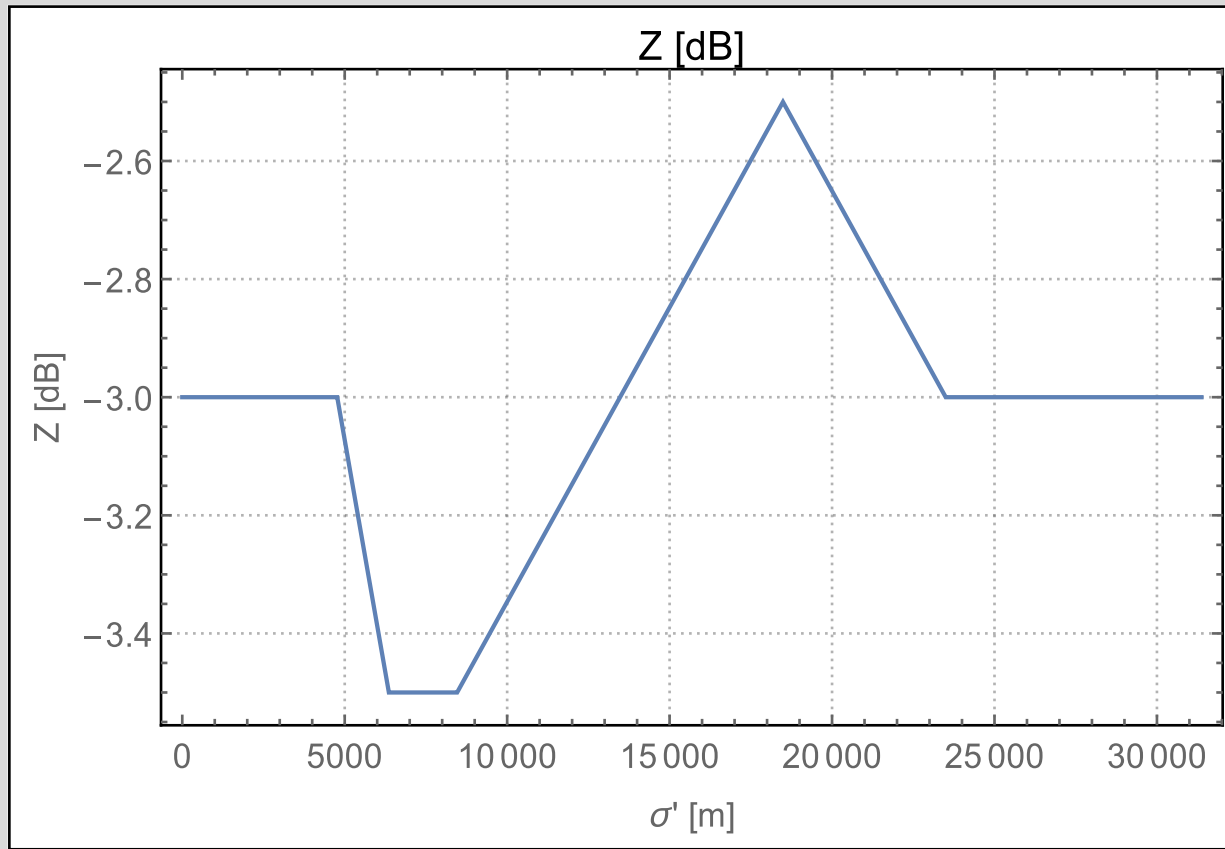
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	242.4 knots	44910 lbf	18488 m	6462 ft	3.62°	1549 ft/min	-2.5 dB <sub>A</sub>
End	256. knots	286.6 knots	44161 lbf	23504 m	7502 ft	3.62°	1832 ft/min	-3. dB <sub>A</sub>
Gain	36. knots	44.2 knots	-749 lbf	5016 m	1040 ft	0.°	283 ft/min	-0.5 dB <sub>A</sub>

Segment 9 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	256. knots	286.6 knots	44161 lbf	23504 m	7502 ft	3.65°	1847 ft/min	-3. dB <sub>A</sub>
End	300. knots	344.4 knots	43409 lbf	31368 m	9147 ft	3.65°	2220 ft/min	-3. dB <sub>A</sub>
Gain	44. knots	57.8 knots	-752 lbf	7864 m	1645 ft	0.°	373 ft/min	0. dB <sub>A</sub>

Segment 10 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	344.4 knots	43409 lbf	31368 m	9147 ft	5.46°	3319 ft/min	-3. dB <sub>A</sub>
End	300. knots	380.1 knots	46243 lbf	51089 m	15328 ft	5.46°	3663 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	35.7 knots	2834 lbf	19721 m	6181 ft	0.°	344 ft/min	0.5 dB <sub>A</sub>





# NADP2-15

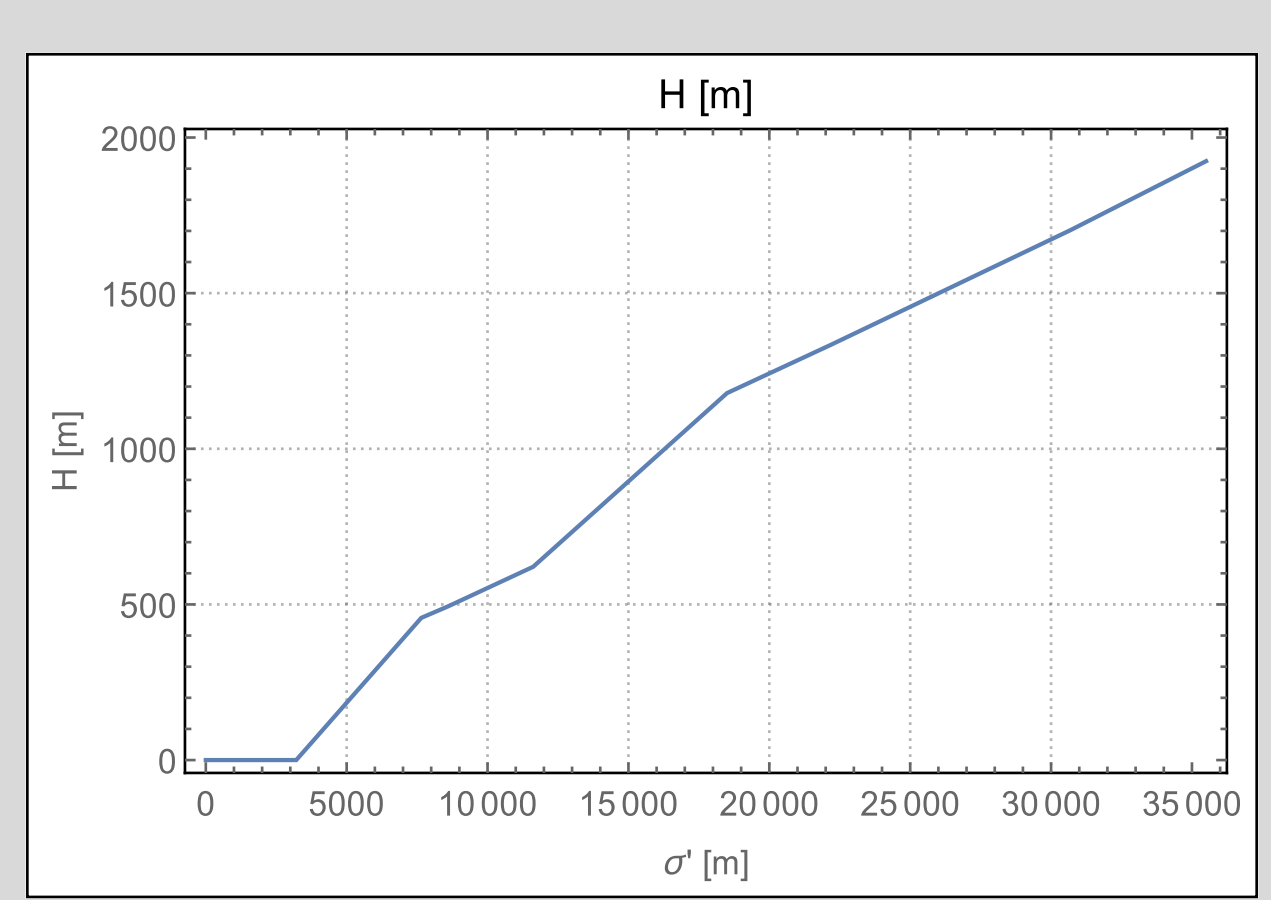
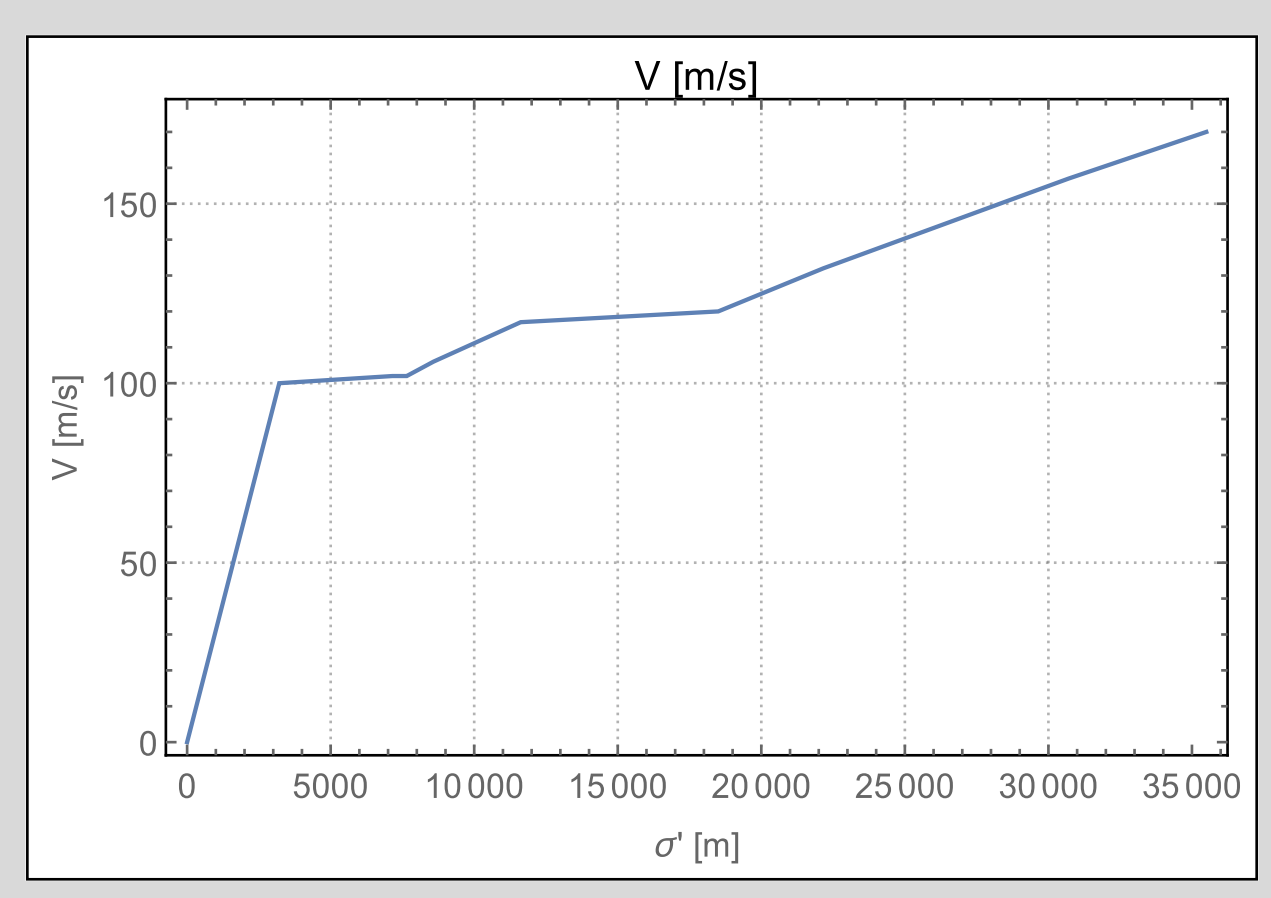
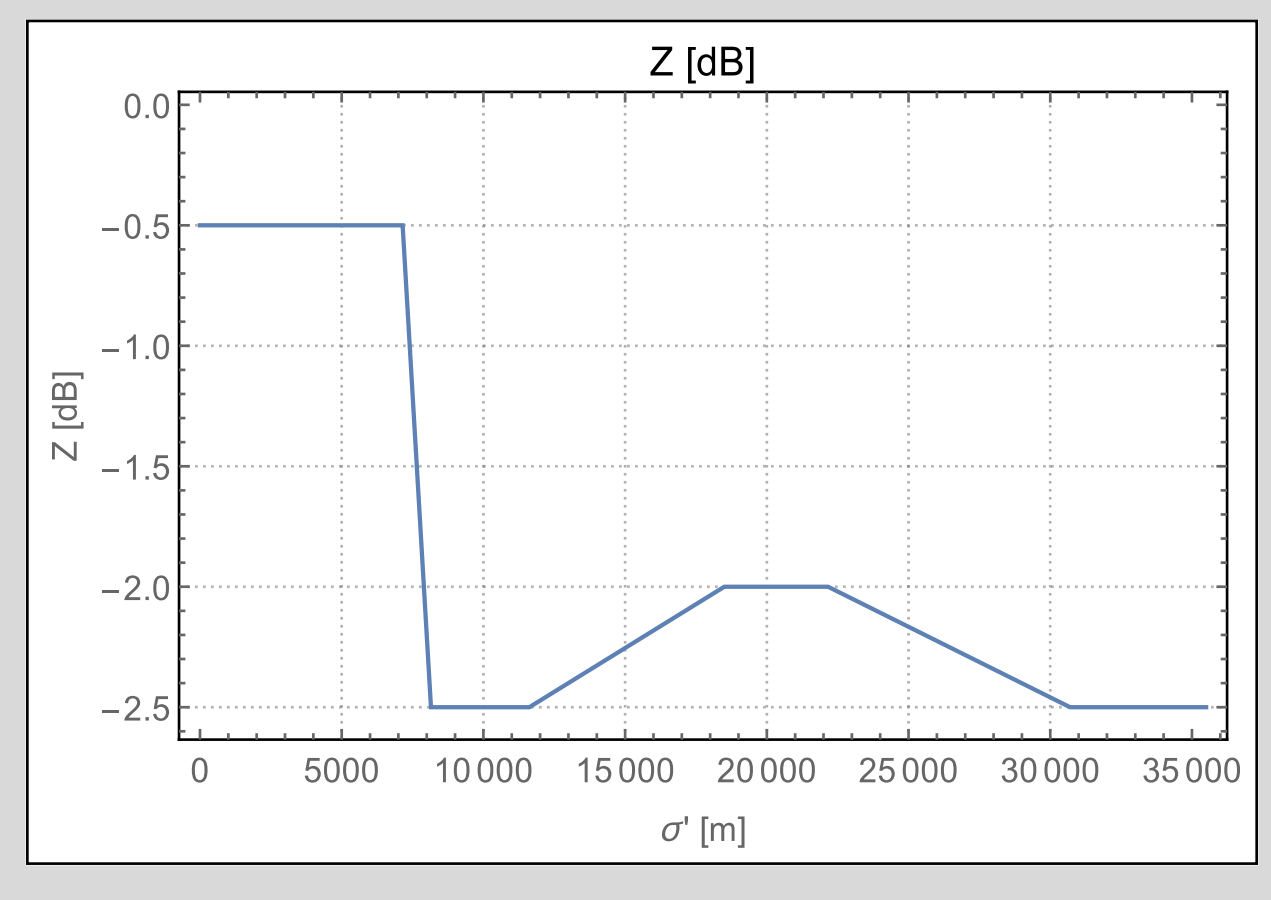
7478 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-0,5	0	0
3210	-0,5	100	0
7150	-0,5	102	-
7650	-	102	457
8150	-2,5	-	-
8580	-2,5	106	493
11620	-2,5	117	621
18500	-2	120	1179
22160	-2	132	1333
30700	-2,5	157	1703
35500	-2,5	170	1924
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 35500	0	0	0,068

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	F_20	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	F_20	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 10 Speed	ACC	1.	F_20	MaxClimb	200.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	F_10	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	F_5	MaxClimb	18520.	0.
6	Accelerate to Flaps 1 Speed	ACC	0	F_5	MaxClimb	240.	0.
7	Accelerate to Flaps UP Speed	ACC	0	F_1	MaxClimb	280.	0.
8	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	62 497 lbf	0 m	328 ft	0.°	0 ft/min	-0.5 dB <sub>A</sub>
End	194. knots	194.9 knots	50 060 lbf	3212 m	328 ft	0.°	0 ft/min	-0.5 dB <sub>A</sub>
Gain	194. knots	194.9 knots	-12 437 lbf	3212 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	194.9 knots	50 060 lbf	3212 m	328 ft	5.88°	2022 ft/min	-0.5 dB <sub>A</sub>
End	194. knots	199.2 knots	50 774 lbf	7652 m	1828 ft	5.88°	2067 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	4.3 knots	714 lbf	4440 m	1500 ft	0.°	45 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	199.2 knots	44 279 lbf	7652 m	1828 ft	2.21°	778 ft/min	-2. dB <sub>A</sub>
End	200. knots	205.8 knots	44 131 lbf	8578 m	1945 ft	2.21°	804 ft/min	-2.5 dB <sub>A</sub>
Gain	6. knots	6.6 knots	-148 lbf	926 m	117 ft	0.°	26 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	205.8 knots	44 132 lbf	8578 m	1945 ft	2.41°	876 ft/min	-2.5 dB <sub>A</sub>
End	220. knots	227.8 knots	43 662 lbf	11 621 m	2366 ft	2.41°	970 ft/min	-2.5 dB <sub>A</sub>
Gain	20. knots	22. knots	-470 lbf	3043 m	421 ft	0.°	94 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.8 knots	43 662 lbf	11 621 m	2366 ft	4.63°	1862 ft/min	-2.5 dB <sub>A</sub>
End	220. knots	234.1 knots	45 022 lbf	18 504 m	4195 ft	4.63°	1914 ft/min	-2. dB <sub>A</sub>
Gain	0. knots	6.3 knots	1360 lbf	6883 m	1829 ft	0.°	52 ft/min	0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.1 knots	45 022 lbf	18 504 m	4195 ft	2.41°	997 ft/min	-2. dB <sub>A</sub>
End	240. knots	257.3 knots	44 584 lbf	22 162 m	4701 ft	2.41°	1096 ft/min	-2. dB <sub>A</sub>
Gain	20. knots	23.2 knots	-438 lbf	3658 m	506 ft	0.°	99 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	257.3 knots	44 584 lbf	22 162 m	4701 ft	2.48°	1128 ft/min	-2. dB <sub>A</sub>
End	280. knots	305.9 knots	43 818 lbf	30 703 m	5914 ft	2.48°	1340 ft/min	-2.5 dB <sub>A</sub>
Gain	40. knots	48.6 knots	-766 lbf	8541 m	1213 ft	0.°	212 ft/min	-0.5 dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	305.9 knots	43 818 lbf	30 703 m	5914 ft	2.64°	1426 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	331.3 knots	43 496 lbf	35 504 m	6640 ft	2.64°	1546 ft/min	-2.5 dB <sub>A</sub>
Gain	20. knots	25.4 knots	-322 lbf	4801 m	726 ft	0.°	120 ft/min	0. dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	331.3 knots	43 496 lbf	35 504 m	6640 ft	3.87°	2265 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	380.1 knots	47 952 lbf	74 670 m	15 328 ft	3.87°	2598 ft/min	-1.5 dB <sub>A</sub>
Gain	0. knots	48.8 knots	4456 lbf	39 166 m	8688 ft	0.°	333 ft/min	1. dB <sub>A</sub>

# NADP2-15

7478 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-3	0	0
2140	-3	89	0
5170	-3	91	-
5670	-	91	457
5990	-3	93	478
7640	-3	104	590
9440	-3,5	116	718
9820	-3,5	118	746
18500	-2,5	124	1840
23510	-3	147	2156
31360	-3	177	2655
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 31360	0	0	0,095

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	F_20	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	F_20	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 10 Speed	ACC	1.	F_20	MaxClimb	176.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	F_10	MaxClimb	196.	0.
5	Accelerate to Flaps 1 Speed	ACC	0	F_5	MaxClimb	216.	0.
6	Accelerate to 220 kt	ACC	0	F_1	MaxClimb	220.	0.
7	Climb to 10NM	CSD	0	F_1	MaxClimb	18520.	0.
8	Accelerate to Flaps UP Speed	ACC	0	F_1	MaxClimb	256.	0.
9	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
10	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	51931 lbf	0 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
End	172. knots	172.8 knots	42769 lbf	2138 m	328 ft	0.°	0 ft/min	-3. dB <sub>A</sub>
Gain	172. knots	172.8 knots	-9162 lbf	2138 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	172.8 knots	42769 lbf	2138 m	328 ft	7.38°	2248 ft/min	-3. dB <sub>A</sub>
End	172. knots	176.7 knots	43362 lbf	5666 m	1828 ft	7.38°	2298 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	3.9 knots	593 lbf	3528 m	1500 ft	0.°	50 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 10 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	176.7 knots	43362 lbf	5666 m	1828 ft	3.68°	1148 ft/min	-3. dB <sub>A</sub>
End	176. knots	181. knots	43260 lbf	5988 m	1896 ft	3.68°	1176 ft/min	-3. dB <sub>A</sub>
Gain	4. knots	4.3 knots	-102 lbf	322 m	68 ft	0.°	28 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 5 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	181. knots	43260 lbf	5988 m	1896 ft	3.9°	1246 ft/min	-3. dB <sub>A</sub>
End	196. knots	202.6 knots	42771 lbf	7637 m	2265 ft	3.9°	1396 ft/min	-3. dB <sub>A</sub>
Gain	20. knots	21.6 knots	-489 lbf	1649 m	369 ft	0.°	150 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	196. knots	202.6 knots	42771 lbf	7637 m	2265 ft	4.04°	1446 ft/min	-3. dB <sub>A</sub>
End	216. knots	224.7 knots	42314 lbf	9443 m	2684 ft	4.04°	1603 ft/min	-3.5 dB <sub>A</sub>
Gain	20. knots	22.1 knots	-457 lbf	1806 m	419 ft	0.°	157 ft/min	-0.5 dB <sub>A</sub>

Segment 6 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	216. knots	224.7 knots	42314 lbf	9443 m	2684 ft	4.19°	1663 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	229.1 knots	42227 lbf	9817 m	2774 ft	4.19°	1696 ft/min	-3.5 dB <sub>A</sub>
Gain	4. knots	4.4 knots	-87 lbf	374 m	90 ft	0.°	33 ft/min	0. dB <sub>A</sub>

Segment 7 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	229.1 knots	42227 lbf	9817 m	2774 ft	7.19°	2905 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	241.9 knots	44660 lbf	18497 m	6366 ft	7.19°	3067 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	12.8 knots	2433 lbf	8680 m	3592 ft	0.°	162 ft/min	1. dB <sub>A</sub>

Segment 8 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

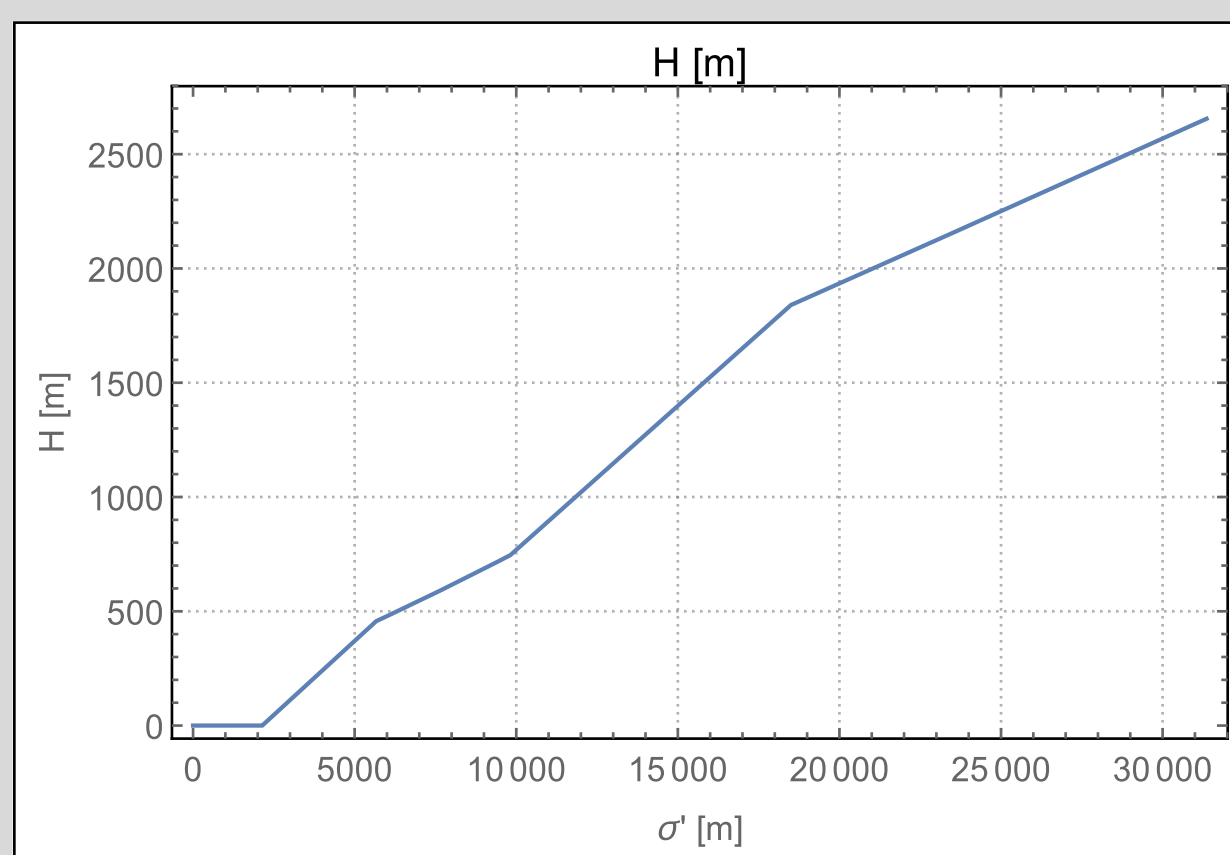
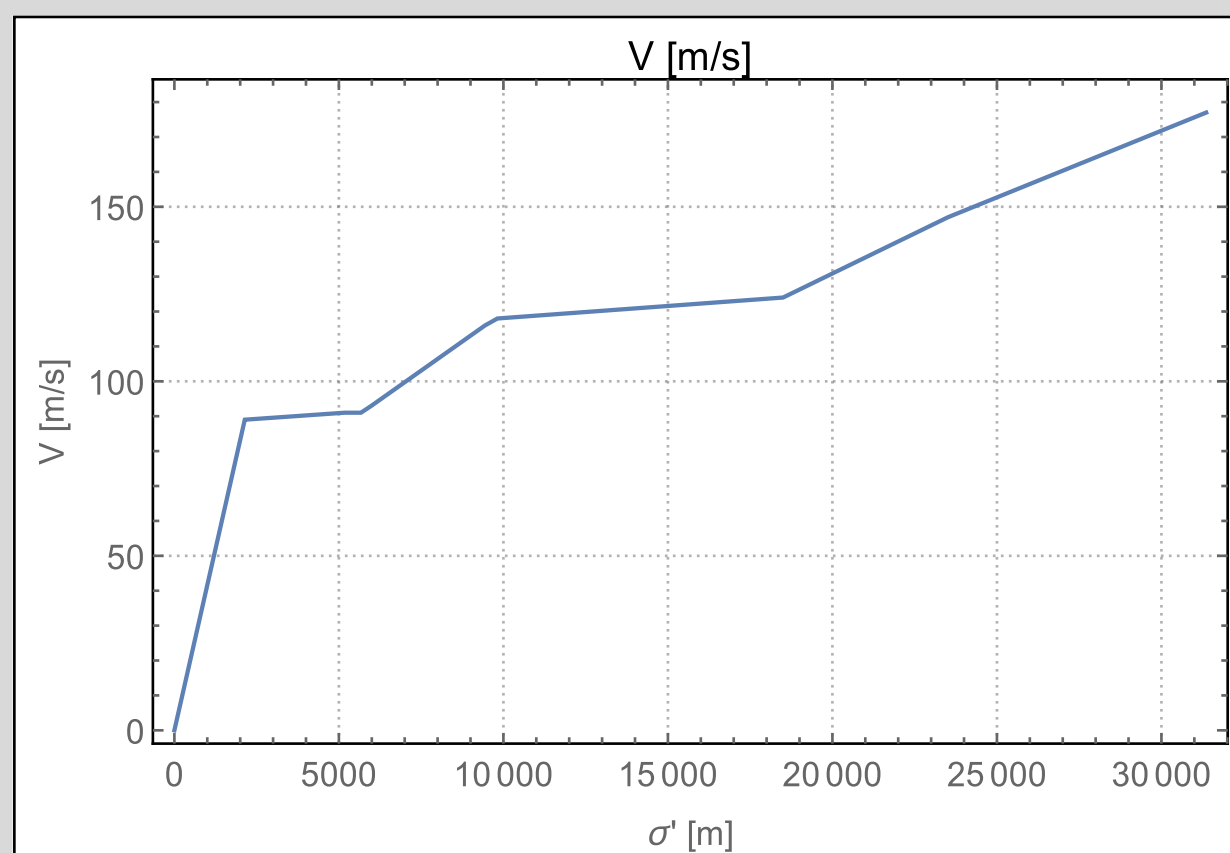
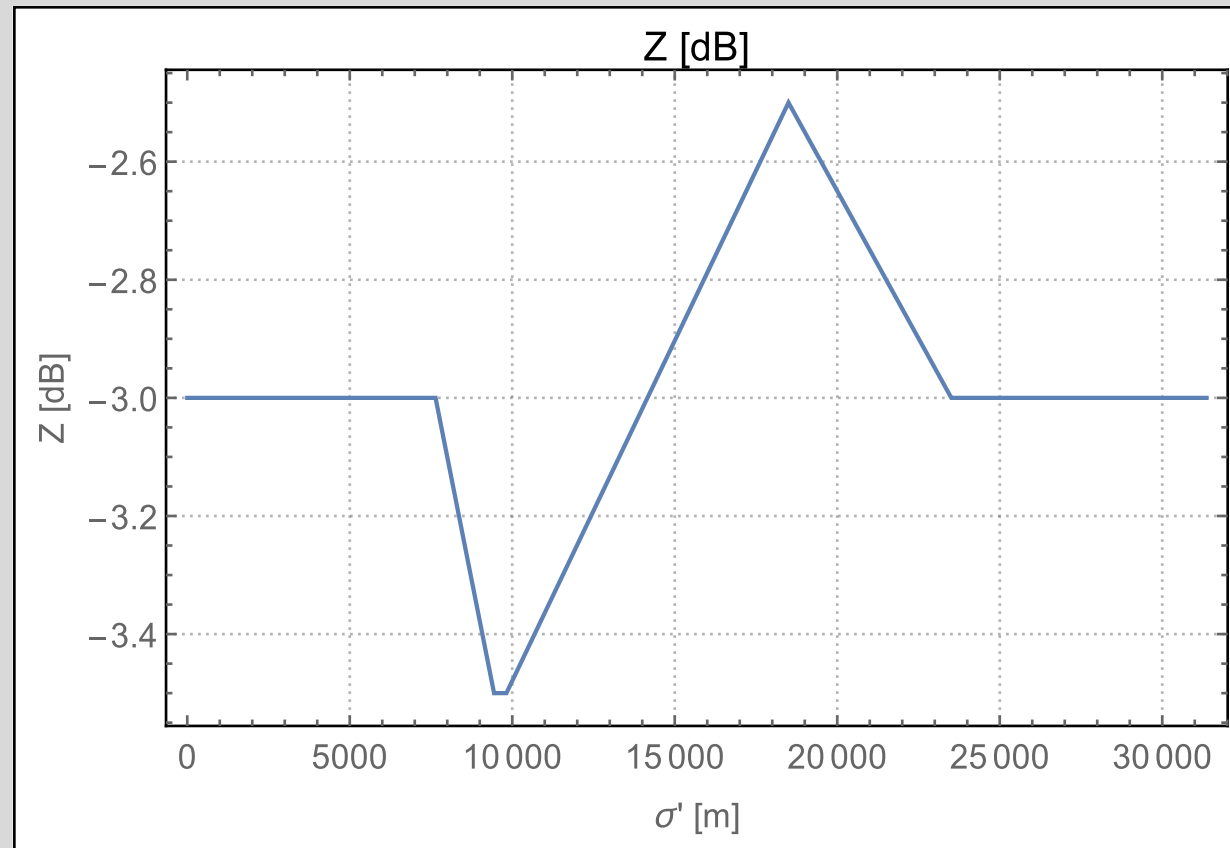
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	241.9 knots	44660 lbf	18497 m	6366 ft	3.61°	1543 ft/min	-2.5 dB <sub>A</sub>
End	256. knots	286. knots	43914 lbf	23509 m	7402 ft	3.61°	1824 ft/min	-3. dB <sub>A</sub>
Gain	36. knots	44.1 knots	-746 lbf	5012 m	1036 ft	0.°	281 ft/min	-0.5 dB <sub>A</sub>

Segment 9 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	256. knots	286. knots	43914 lbf	23509 m	7402 ft	3.64°	1839 ft/min	-3. dB <sub>A</sub>
End	300. knots	343.9 knots	43167 lbf	31361 m	9040 ft	3.64°	2211 ft/min	-3. dB <sub>A</sub>
Gain	44. knots	57.9 knots	-747 lbf	7852 m	1638 ft	0.°	372 ft/min	0. dB <sub>A</sub>

Segment 10 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	343.9 knots	43167 lbf	31361 m	9040 ft	5.44°	3301 ft/min	-3. dB <sub>A</sub>
End	300. knots	380.1 knots	46047 lbf	51502 m	15328 ft	5.44°	3649 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	36.2 knots	2880 lbf	20141 m	6288 ft	0.°	348 ft/min	0.5 dB <sub>A</sub>



# NADP1

7773ER 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3110	-1	103	0
5680	-0,5	106	-
6180	-	106	457
6680	-5,5	-	-
10740	-5,5	108	914
13480	-5,5	120	1049
18510	-5,5	122	1469
22590	-6	136	1646
26610	-6	148	1828
36270	-6,5	173	2243
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 36270	0	0	0,062

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	FLAP_5	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	FLAP_5	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	FLAP_5	MaxClimb	3000.	0.
4	Accelerate to 220 kt	ACC	0	FLAP_5	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	FLAP_5	MaxClimb	18520.	0.
6	Accelerate to Flaps 1 Speed	ACC	0	FLAP_5	MaxClimb	242.	0.
7	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	262.	0.
8	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	109932 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	200. knots	200.9 knots	86474 lbf	3112 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	200. knots	200.9 knots	-23458 lbf	3112 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	200.9 knots	86474 lbf	3112 m	328 ft	8.46°	2994 ft/min	-1. dB <sub>A</sub>
End	200. knots	205.4 knots	87171 lbf	6185 m	1828 ft	8.46°	3061 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	4.5 knots	697 lbf	3073 m	1500 ft	0.°	67 ft/min	0.5 dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	205.4 knots	70371 lbf	6185 m	1828 ft	5.73°	2077 ft/min	-5.5 dB <sub>A</sub>
End	200. knots	210.1 knots	72026 lbf	10740 m	3328 ft	5.73°	2124 ft/min	-5.5 dB <sub>A</sub>
Gain	0. knots	4.7 knots	1655 lbf	4555 m	1500 ft	0.°	47 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	210.1 knots	72026 lbf	10740 m	3328 ft	2.81°	1043 ft/min	-5.5 dB <sub>A</sub>
End	220. knots	232.7 knots	70127 lbf	13480 m	3769 ft	2.81°	1155 ft/min	-5.5 dB <sub>A</sub>
Gain	20. knots	22.6 knots	-1899 lbf	2740 m	441 ft	0.°	112 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	232.7 knots	70127 lbf	13480 m	3769 ft	4.78°	1963 ft/min	-5.5 dB <sub>A</sub>
End	220. knots	237.5 knots	71614 lbf	18514 m	5149 ft	4.78°	2004 ft/min	-5.5 dB <sub>A</sub>
Gain	0. knots	4.8 knots	1487 lbf	5034 m	1380 ft	0.°	41 ft/min	0. dB <sub>A</sub>

Segment 6 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	237.5 knots	71614 lbf	18514 m	5149 ft	2.47°	1037 ft/min	-5.5 dB <sub>A</sub>
End	242. knots	263.6 knots	69611 lbf	22594 m	5727 ft	2.47°	1150 ft/min	-6. dB <sub>A</sub>
Gain	22. knots	26.1 knots	-2003 lbf	4080 m	578 ft	0.°	113 ft/min	-0.5 dB <sub>A</sub>

Segment 7 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

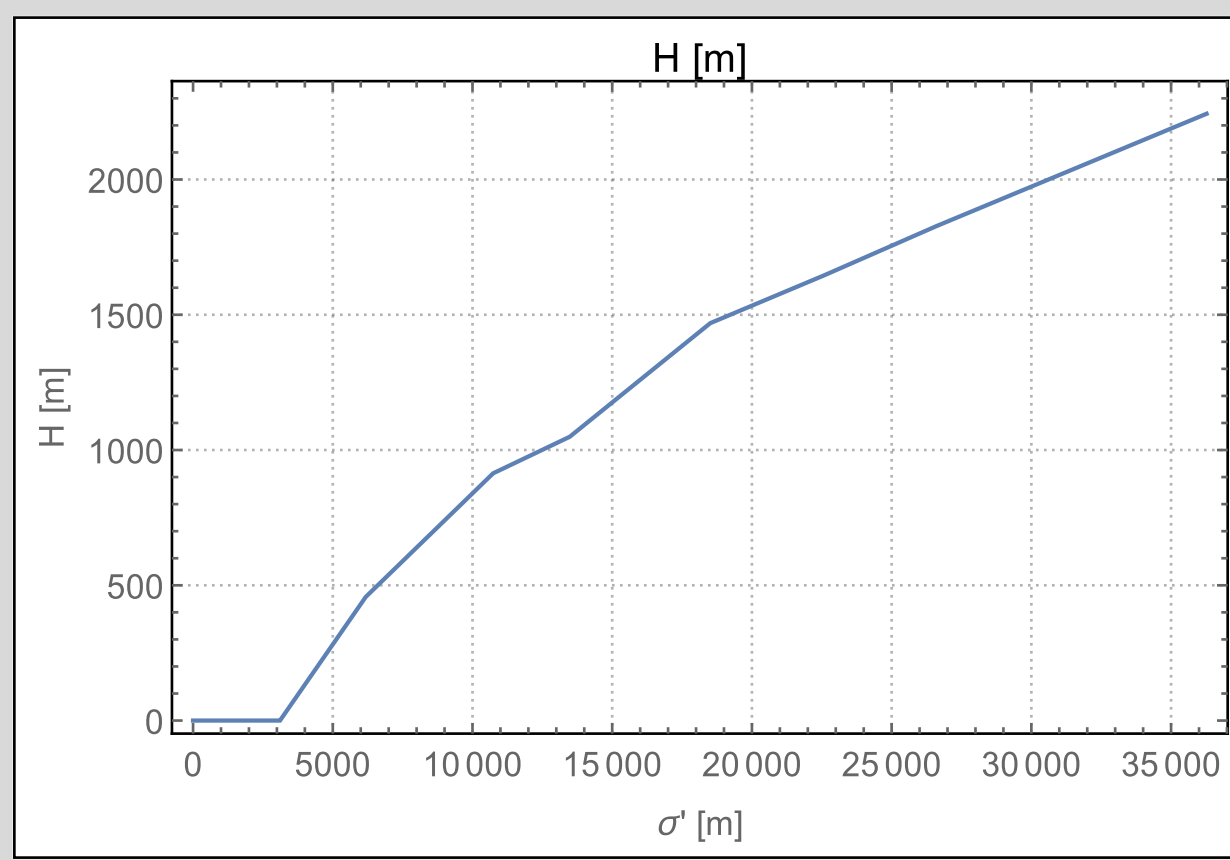
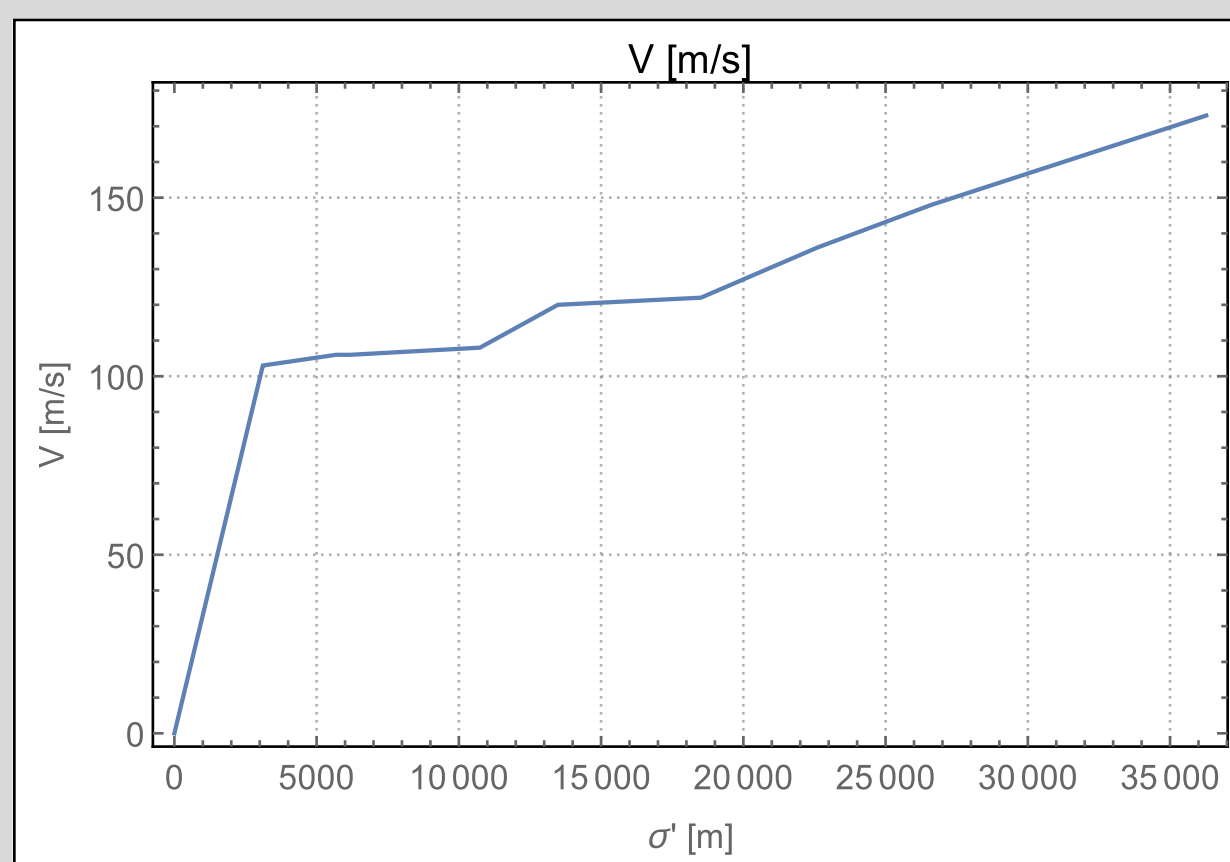
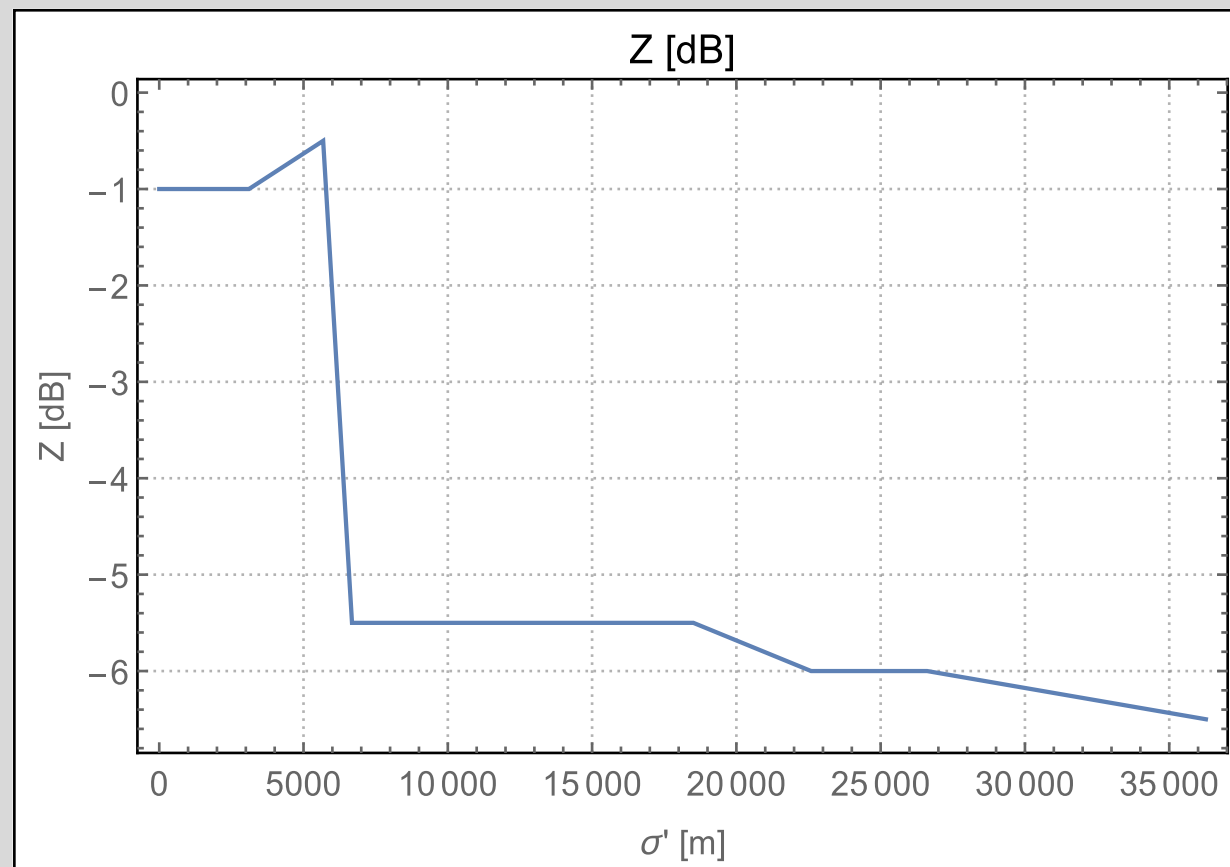
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	263.6 knots	69611 lbf	22594 m	5727 ft	2.6°	1211 ft/min	-6. dB <sub>A</sub>
End	262. knots	287.9 knots	67863 lbf	26611 m	6325 ft	2.6°	1323 ft/min	-6. dB <sub>A</sub>
Gain	20. knots	24.3 knots	-1748 lbf	4017 m	598 ft	0.°	112 ft/min	0. dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	262. knots	287.9 knots	67862 lbf	26611 m	6325 ft	2.46°	1252 ft/min	-6. dB <sub>A</sub>
End	300. knots	336.7 knots	64759 lbf	36270 m	7687 ft	2.46°	1463 ft/min	-6.5 dB <sub>A</sub>
Gain	38. knots	48.8 knots	-3103 lbf	9659 m	1362 ft	0.°	211 ft/min	-0.5 dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	336.7 knots	64760 lbf	36270 m	7687 ft	3.54°	2105 ft/min	-6.5 dB <sub>A</sub>
End	300. knots	380.1 knots	72239 lbf	73918 m	15328 ft	3.54°	2377 ft/min	-5.5 dB <sub>A</sub>
Gain	0. knots	43.4 knots	7479 lbf	37648 m	7641 ft	0.°	272 ft/min	1. dB <sub>A</sub>



# NADP1

7773ER 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-8	0	0
2320	-8	91	0
4840	-8	93	-
5340	-	93	457
5840	-8	-	-
8540	-8	95	914
11470	-8,5	114	1116
12580	-8,5	121	1194
18510	-8	125	1910
19660	-8	131	1983
32630	-9	178	2734
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 32630	0	0	0,082

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	FLAP_5	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	FLAP_5	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	FLAP_5	MaxClimb	3000.	0.
4	Accelerate to Flaps 1 Speed	ACC	0	FLAP_5	MaxClimb	209.	0.
5	Accelerate to 220 kt	ACC	0	FLAP_1	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	FLAP_1	MaxClimb	18520.	0.
7	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	229.	0.
8	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	81156 lbf	0 m	328 ft	0.°	0 ft/min	-8. dB <sub>A</sub>
End	176. knots	176.8 knots	65917 lbf	2322 m	328 ft	0.°	0 ft/min	-8. dB <sub>A</sub>
Gain	176. knots	176.8 knots	-15239 lbf	2322 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	176.8 knots	65917 lbf	2322 m	328 ft	8.61°	2681 ft/min	-8. dB <sub>A</sub>
End	176. knots	180.8 knots	66432 lbf	5340 m	1828 ft	8.61°	2741 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	4. knots	515 lbf	3018 m	1500 ft	0.°	60 ft/min	0. dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	180.8 knots	66432 lbf	5340 m	1828 ft	8.13°	2589 ft/min	-8. dB <sub>A</sub>
End	176. knots	184.9 knots	67934 lbf	8541 m	3328 ft	8.13°	2648 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	4.1 knots	1502 lbf	3201 m	1500 ft	0.°	59 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 1 Speed 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	184.9 knots	67934 lbf	8541 m	3328 ft	3.93°	1283 ft/min	-8. dB <sub>A</sub>
End	209. knots	221.7 knots	65025 lbf	11473 m	3989 ft	3.93°	1539 ft/min	-8.5 dB <sub>A</sub>
Gain	33. knots	36.8 knots	-2909 lbf	2932 m	661 ft	0.°	256 ft/min	-0.5 dB <sub>A</sub>

Segment 5 Accelerate to 220 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	221.7 knots	65025 lbf	11473 m	3989 ft	4.02°	1574 ft/min	-8.5 dB <sub>A</sub>
End	220. knots	234.3 knots	64087 lbf	12578 m	4244 ft	4.02°	1663 ft/min	-8.5 dB <sub>A</sub>
Gain	11. knots	12.6 knots	-938 lbf	1105 m	255 ft	0.°	89 ft/min	0. dB <sub>A</sub>

Segment 6 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.3 knots	64087 lbf	12578 m	4244 ft	6.89°	2846 ft/min	-8.5 dB <sub>A</sub>
End	220. knots	242.8 knots	66358 lbf	18509 m	6596 ft	6.89°	2950 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	8.5 knots	2271 lbf	5931 m	2352 ft	0.°	104 ft/min	0.5 dB <sub>A</sub>

Segment 7 Accelerate to Flaps UP Speed 50% Climb/50% Acceleration

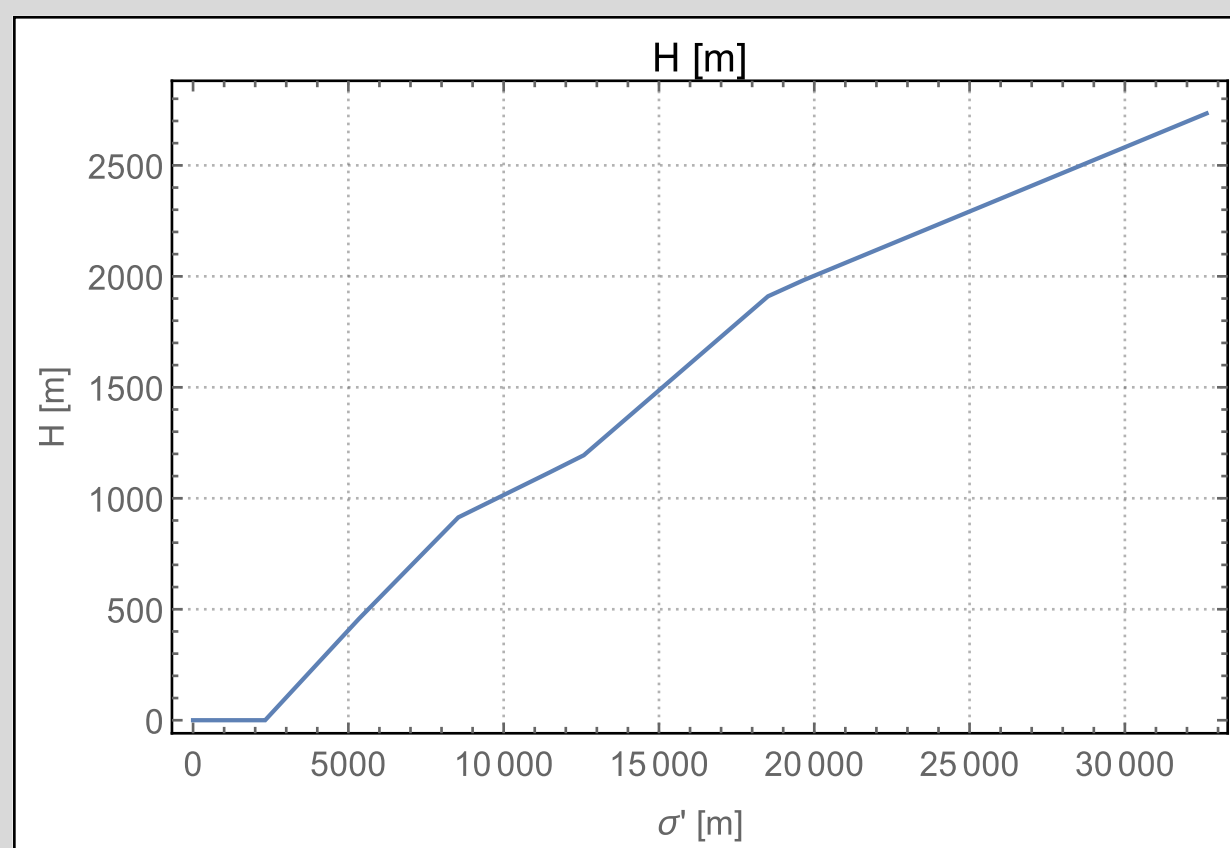
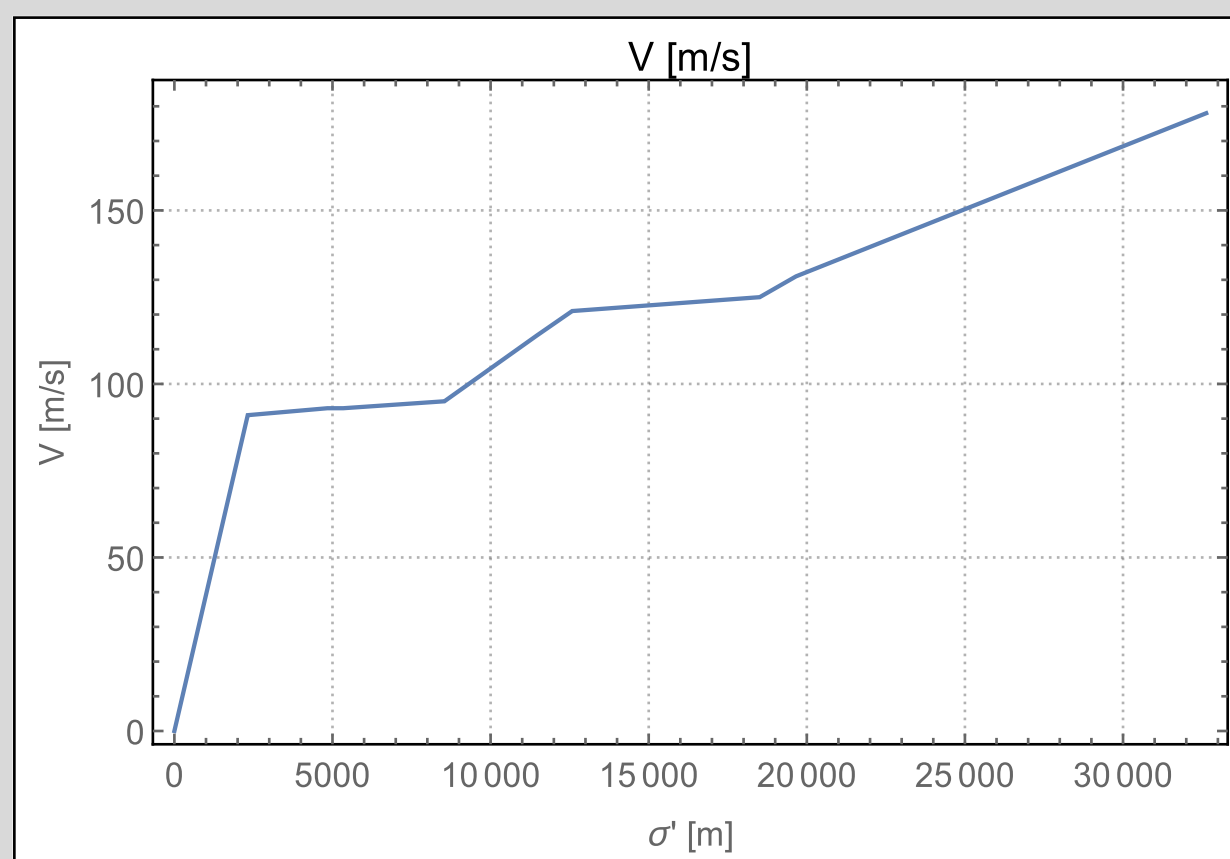
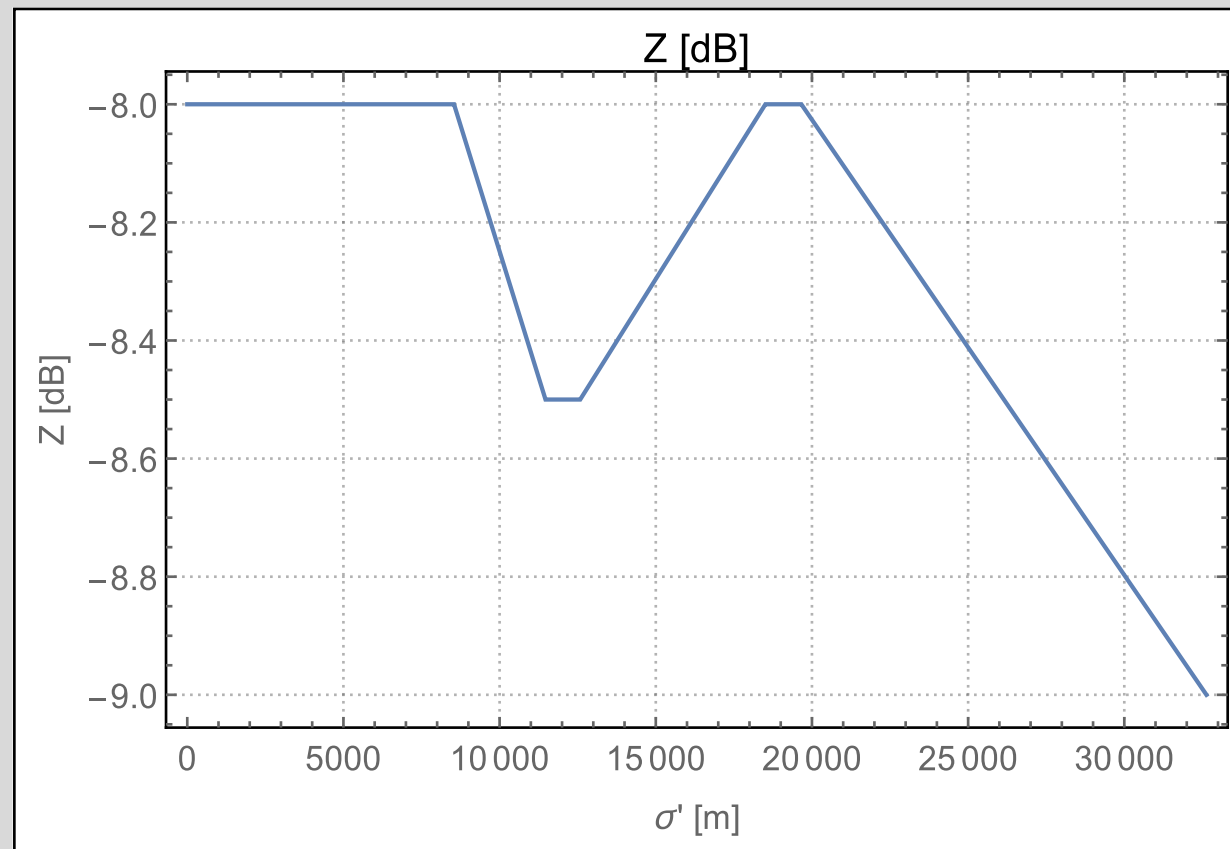
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	242.8 knots	66358 lbf	18509 m	6596 ft	3.62°	1553 ft/min	-8. dB <sub>A</sub>
End	229. knots	253.7 knots	65613 lbf	19662 m	6835 ft	3.62°	1622 ft/min	-8. dB <sub>A</sub>
Gain	9. knots	10.9 knots	-745 lbf	1153 m	239 ft	0.°	69 ft/min	0. dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	253.7 knots	65613 lbf	19662 m	6835 ft	3.31°	1483 ft/min	-8. dB <sub>A</sub>
End	300. knots	345.3 knots	60243 lbf	32630 m	9298 ft	3.31°	2019 ft/min	-9. dB <sub>A</sub>
Gain	71. knots	91.6 knots	-5370 lbf	12968 m	2463 ft	0.°	536 ft/min	-1. dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	345.3 knots	60243 lbf	32630 m	9298 ft	4.67°	2846 ft/min	-9. dB <sub>A</sub>
End	300. knots	380.1 knots	65536 lbf	55125 m	15328 ft	4.67°	3134 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	34.8 knots	5293 lbf	22495 m	6030 ft	0.°	288 ft/min	1. dB <sub>A</sub>



# NADP2-10

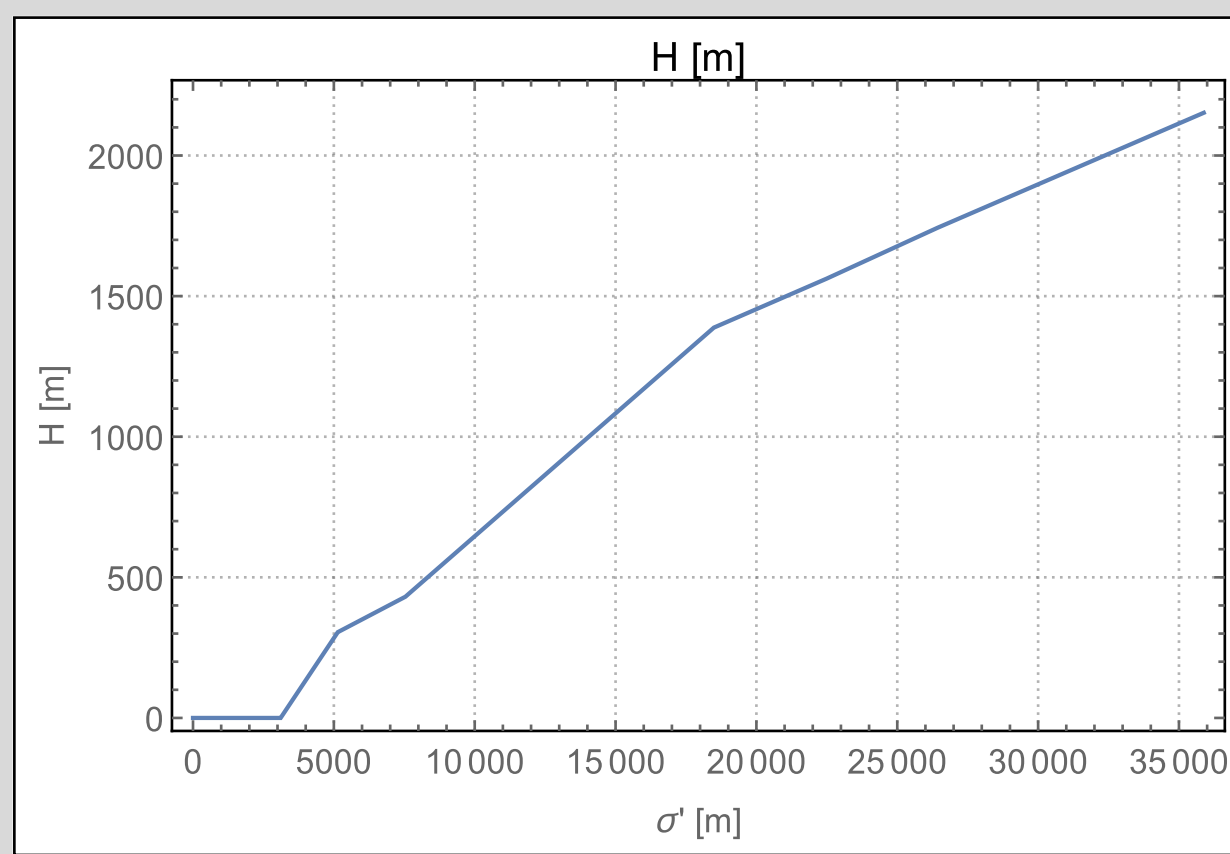
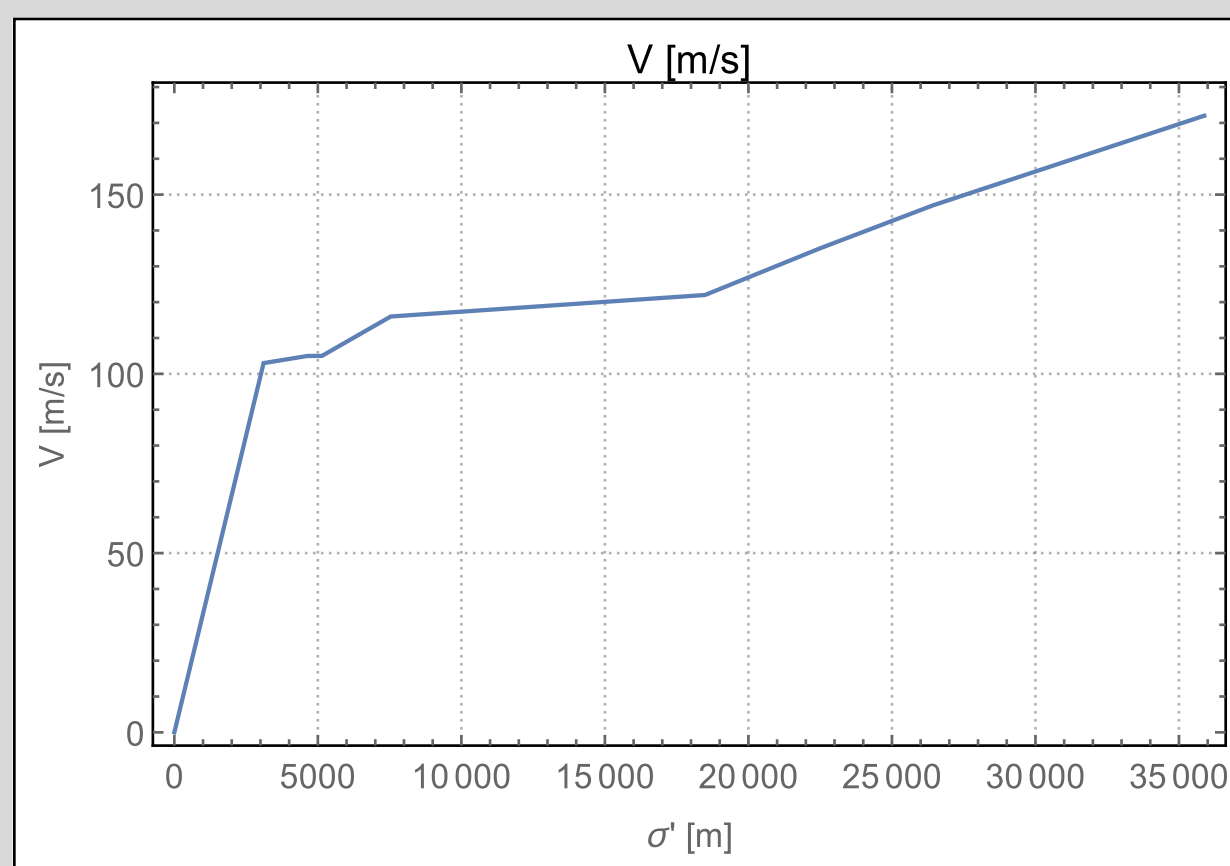
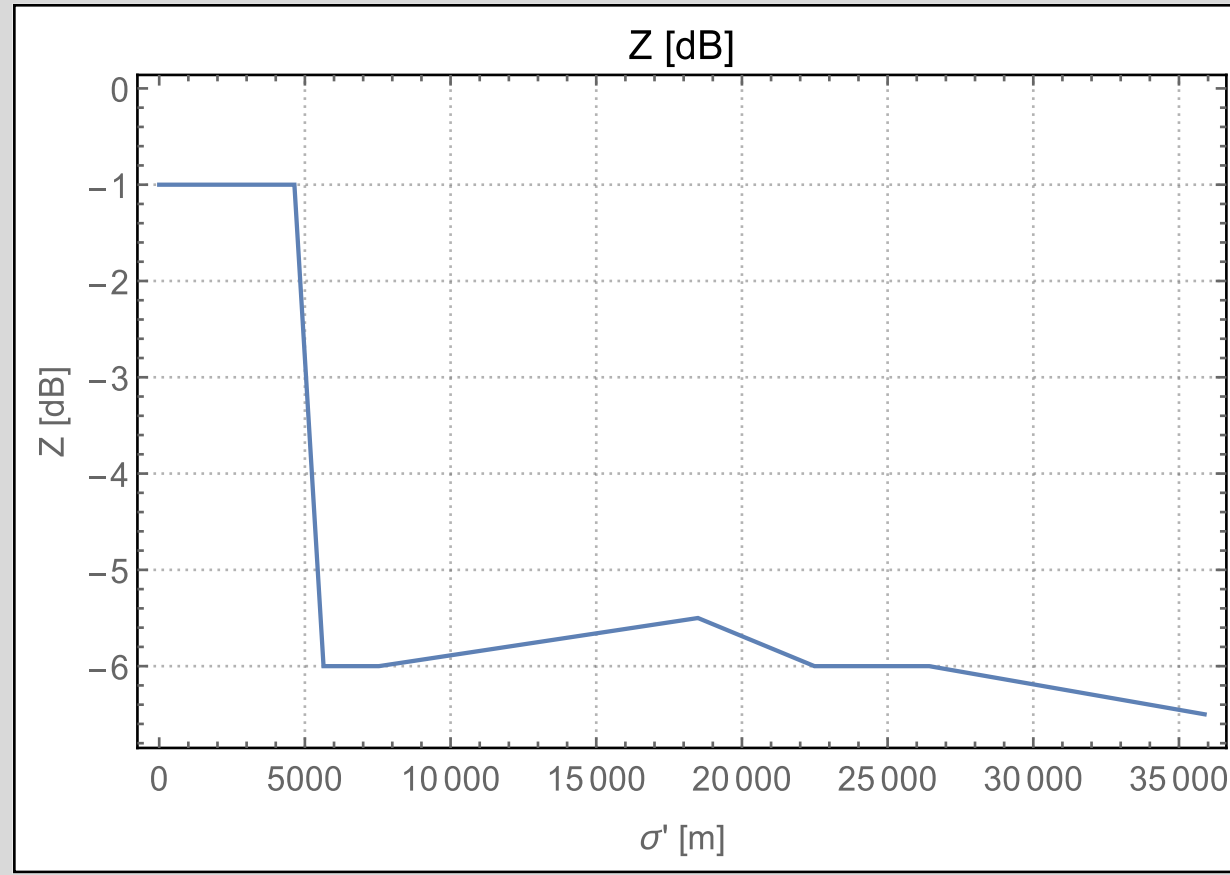
7773ER 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3110	-1	103	0
4640	-1	105	-
5140	-	105	305
5640	-6	-	-
7540	-6	116	431
18490	-5.5	122	1388
22490	-6	135	1562
26430	-6	147	1743
35880	-6.5	172	2152
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 35880	0	0	0,062

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	FLAP_5	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	FLAP_5	MaxTakeoff	1000.	0.
3	Accelerate to 220 kt	ACC	1.	FLAP_5	MaxClimb	220.	0.
4	Climb to 10NM	CSD	0	FLAP_5	MaxClimb	18520.	0.
5	Accelerate to Flaps 1 Speed	ACC	0	FLAP_5	MaxClimb	242.	0.
6	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	262.	0.
7	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	109 932 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	200. knots	200.9 knots	86 474 lbf	3112 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	200. knots	200.9 knots	-23 458 lbf	3112 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	200.9 knots	86 474 lbf	3112 m	328 ft	8.56°	3029 ft/min	-1. dB <sub>A</sub>
End	200. knots	203.9 knots	86 993 lbf	5137 m	1328 ft	8.56°	3074 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	3. knots	519 lbf	2025 m	1000 ft	0.°	45 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	203.9 knots	69 812 lbf	5137 m	1328 ft	3.°	1081 ft/min	-6. dB <sub>A</sub>
End	220. knots	225.7 knots	67 894 lbf	7536 m	1741 ft	3.°	1196 ft/min	-6. dB <sub>A</sub>
Gain	20. knots	21.8 knots	-1918 lbf	2399 m	413 ft	0.°	115 ft/min	0. dB <sub>A</sub>

Segment 4 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	225.7 knots	67 894 lbf	7536 m	1741 ft	4.99°	1988 ft/min	-6. dB <sub>A</sub>
End	220. knots	236.5 knots	71 328 lbf	18 493 m	4881 ft	4.99°	2084 ft/min	-5.5 dB <sub>A</sub>
Gain	0. knots	10.8 knots	3434 lbf	10957 m	3140 ft	0.°	96 ft/min	0.5 dB <sub>A</sub>

Segment 5 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	236.5 knots	71 328 lbf	18 493 m	4881 ft	2.5°	1045 ft/min	-5.5 dB <sub>A</sub>
End	242. knots	262.5 knots	69 320 lbf	22 493 m	5453 ft	2.5°	1159 ft/min	-6. dB <sub>A</sub>
Gain	22. knots	26. knots	-2008 lbf	4000 m	572 ft	0.°	114 ft/min	-0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	262.5 knots	69 320 lbf	22 493 m	5453 ft	2.62°	1215 ft/min	-6. dB <sub>A</sub>
End	262. knots	286.7 knots	67 567 lbf	26 429 m	6045 ft	2.62°	1327 ft/min	-6. dB <sub>A</sub>
Gain	20. knots	24.2 knots	-1753 lbf	3936 m	592 ft	0.°	112 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	262. knots	286.7 knots	67 568 lbf	26 429 m	6045 ft	2.48°	1256 ft/min	-6. dB <sub>A</sub>
End	300. knots	335.2 knots	64 452 lbf	35 880 m	7390 ft	2.48°	1469 ft/min	-6.5 dB <sub>A</sub>
Gain	38. knots	48.5 knots	-3116 lbf	9451 m	1345 ft	0.°	213 ft/min	-0.5 dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	335.2 knots	64 452 lbf	35 880 m	7390 ft	3.57°	2113 ft/min	-6.5 dB <sub>A</sub>
End	300. knots	380.1 knots	72 239 lbf	74 683 m	15 328 ft	3.57°	2397 ft/min	-5.5 dB <sub>A</sub>
Gain	0. knots	44.9 knots	7787 lbf	38 803 m	7938 ft	0.°	284 ft/min	1. dB <sub>A</sub>

# NADP2-10

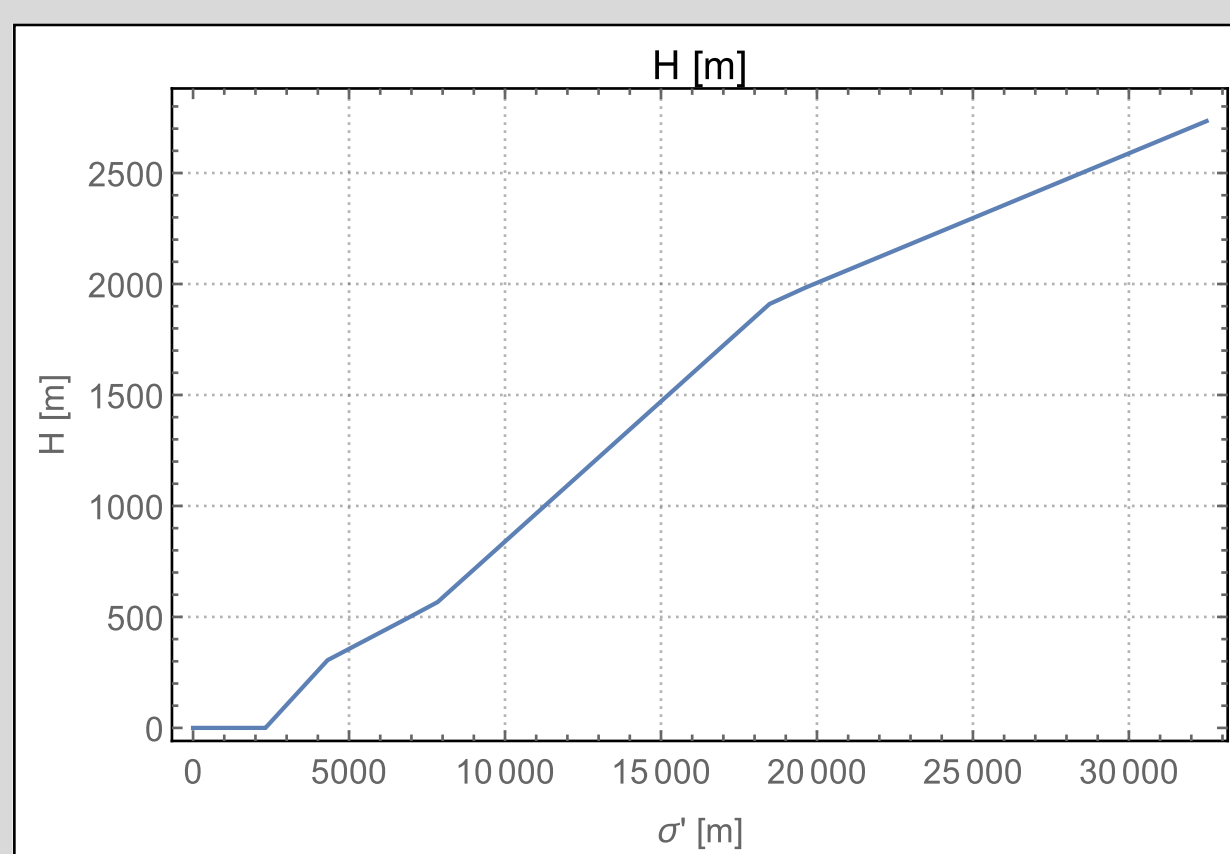
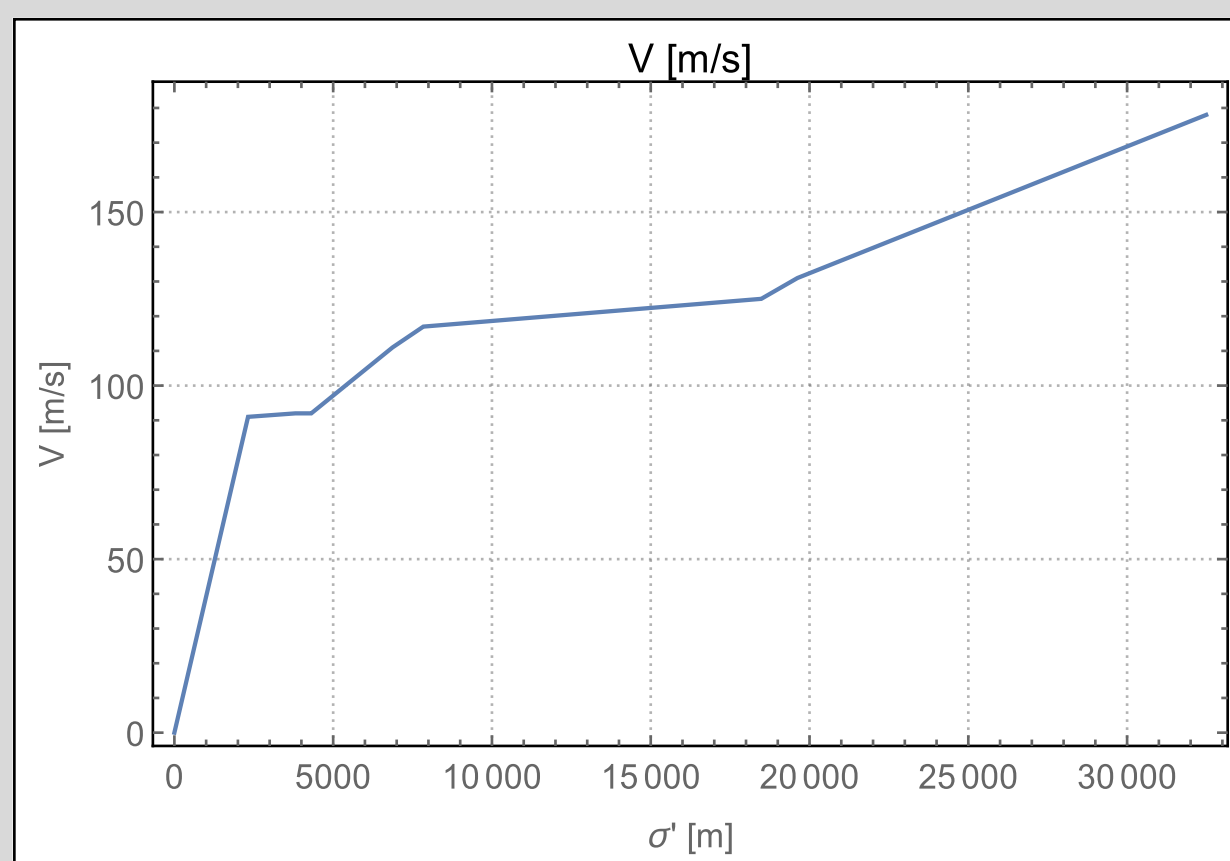
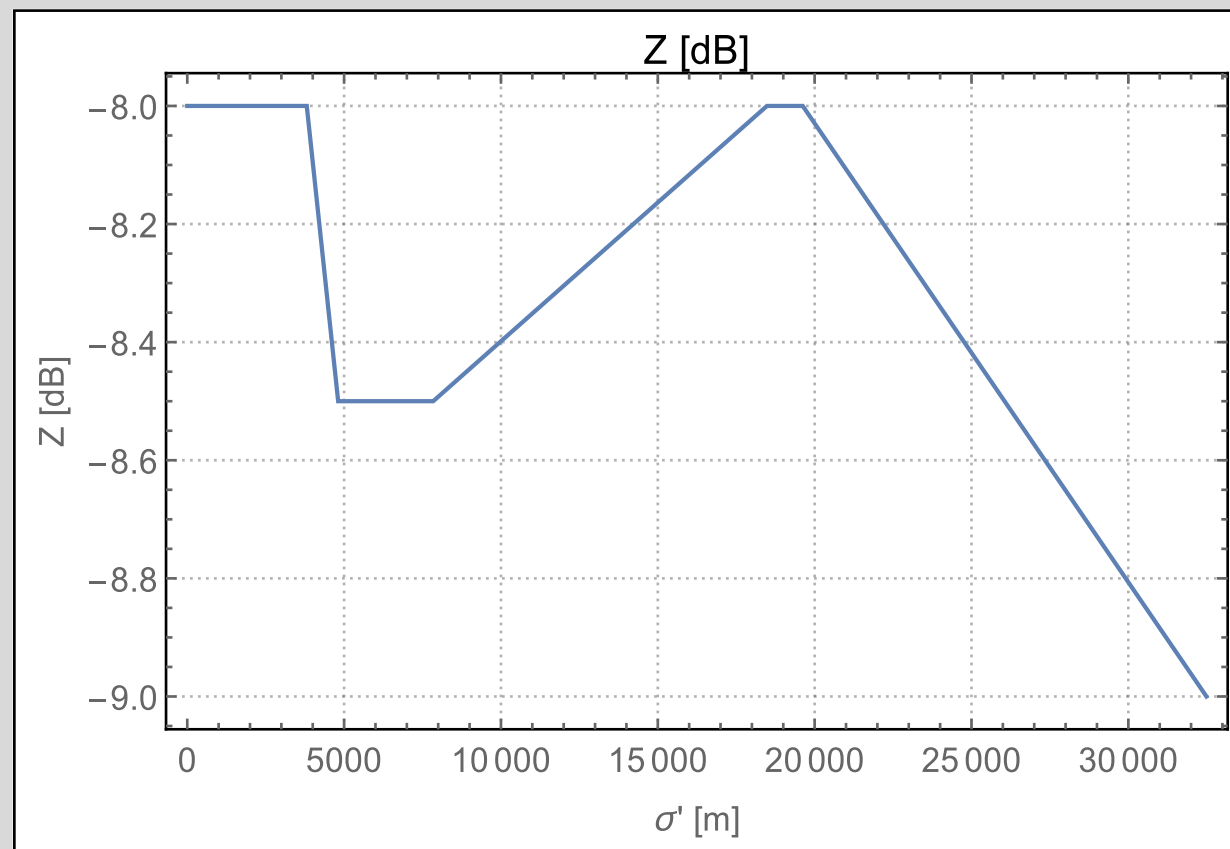
7773ER 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-8	0	0
2320	-8	91	0
3810	-8	92	-
4310	-	92	305
4810	-8,5	-	-
6870	-8,5	111	494
7840	-8,5	117	567
18480	-8	125	1910
19620	-8	131	1983
32490	-9	178	2734
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 32490	0	0	0,082

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	FLAP_5	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	FLAP_5	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	FLAP_5	MaxClimb	209.	0.
4	Accelerate to 220 kt	ACC	0	FLAP_1	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	FLAP_1	MaxClimb	18520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	229.	0.
7	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	81 156 lbf	0 m	328 ft	0.°	0 ft/min	-8. dB <sub>A</sub>
End	176. knots	176.8 knots	65 917 lbf	2322 m	328 ft	0.°	0 ft/min	-8. dB <sub>A</sub>
Gain	176. knots	176.8 knots	-15 239 lbf	2322 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	176.8 knots	65 917 lbf	2322 m	328 ft	8.71°	2712 ft/min	-8. dB <sub>A</sub>
End	176. knots	179.4 knots	66 300 lbf	4311 m	1328 ft	8.71°	2752 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	2.6 knots	383 lbf	1989 m	1000 ft	0.°	40 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	179.4 knots	66 300 lbf	4311 m	1328 ft	4.23°	1340 ft/min	-8. dB <sub>A</sub>
End	209. knots	215.1 knots	63 350 lbf	6873 m	1949 ft	4.23°	1606 ft/min	-8.5 dB <sub>A</sub>
Gain	33. knots	35.7 knots	-2950 lbf	2562 m	621 ft	0.°	266 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	215.1 knots	63 350 lbf	6873 m	1949 ft	4.29°	1629 ft/min	-8.5 dB <sub>A</sub>
End	220. knots	227.2 knots	62 397 lbf	7839 m	2187 ft	4.29°	1721 ft/min	-8.5 dB <sub>A</sub>
Gain	11. knots	12.1 knots	-953 lbf	966 m	238 ft	0.°	92 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.2 knots	62 397 lbf	7839 m	2187 ft	7.2°	2883 ft/min	-8.5 dB <sub>A</sub>
End	220. knots	242.8 knots	66 735 lbf	18480 m	6595 ft	7.2°	3082 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	15.6 knots	4338 lbf	10641 m	4408 ft	0.°	199 ft/min	0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	242.8 knots	66 735 lbf	18480 m	6595 ft	3.64°	1561 ft/min	-8. dB <sub>A</sub>
End	229. knots	253.7 knots	65 986 lbf	19624 m	6834 ft	3.64°	1631 ft/min	-8. dB <sub>A</sub>
Gain	9. knots	10.9 knots	-749 lbf	1144 m	239 ft	0.°	70 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	253.7 knots	65 986 lbf	19624 m	6834 ft	3.34°	1497 ft/min	-8. dB <sub>A</sub>
End	300. knots	345.3 knots	60 585 lbf	32486 m	9297 ft	3.34°	2037 ft/min	-9. dB <sub>A</sub>
Gain	71. knots	91.6 knots	-5400 lbf	12862 m	2463 ft	0.°	540 ft/min	-1. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	345.3 knots	60 585 lbf	32486 m	9297 ft	4.71°	2871 ft/min	-9. dB <sub>A</sub>
End	300. knots	380.1 knots	65 909 lbf	54783 m	15328 ft	4.71°	3161 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	34.8 knots	5324 lbf	22297 m	6031 ft	0.°	290 ft/min	1. dB <sub>A</sub>

# NADP2-15

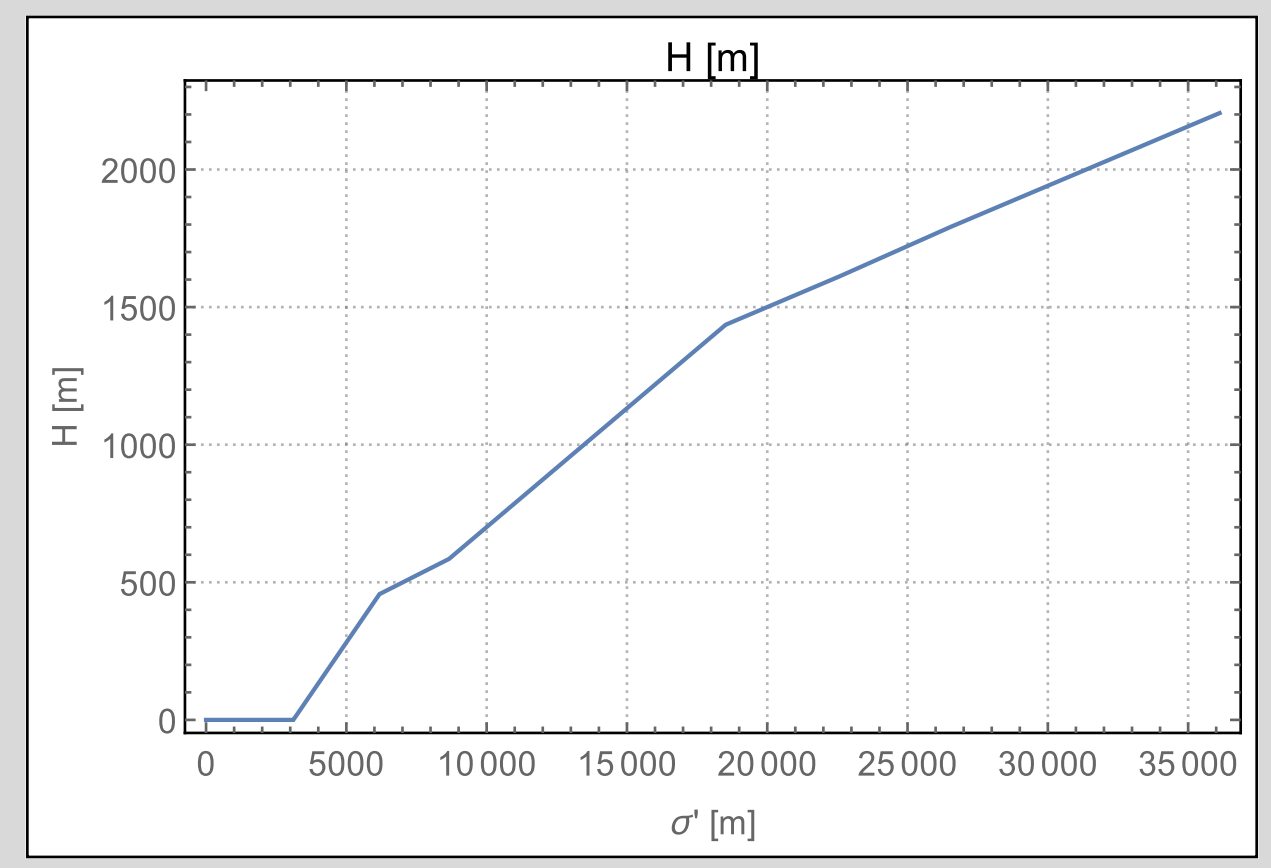
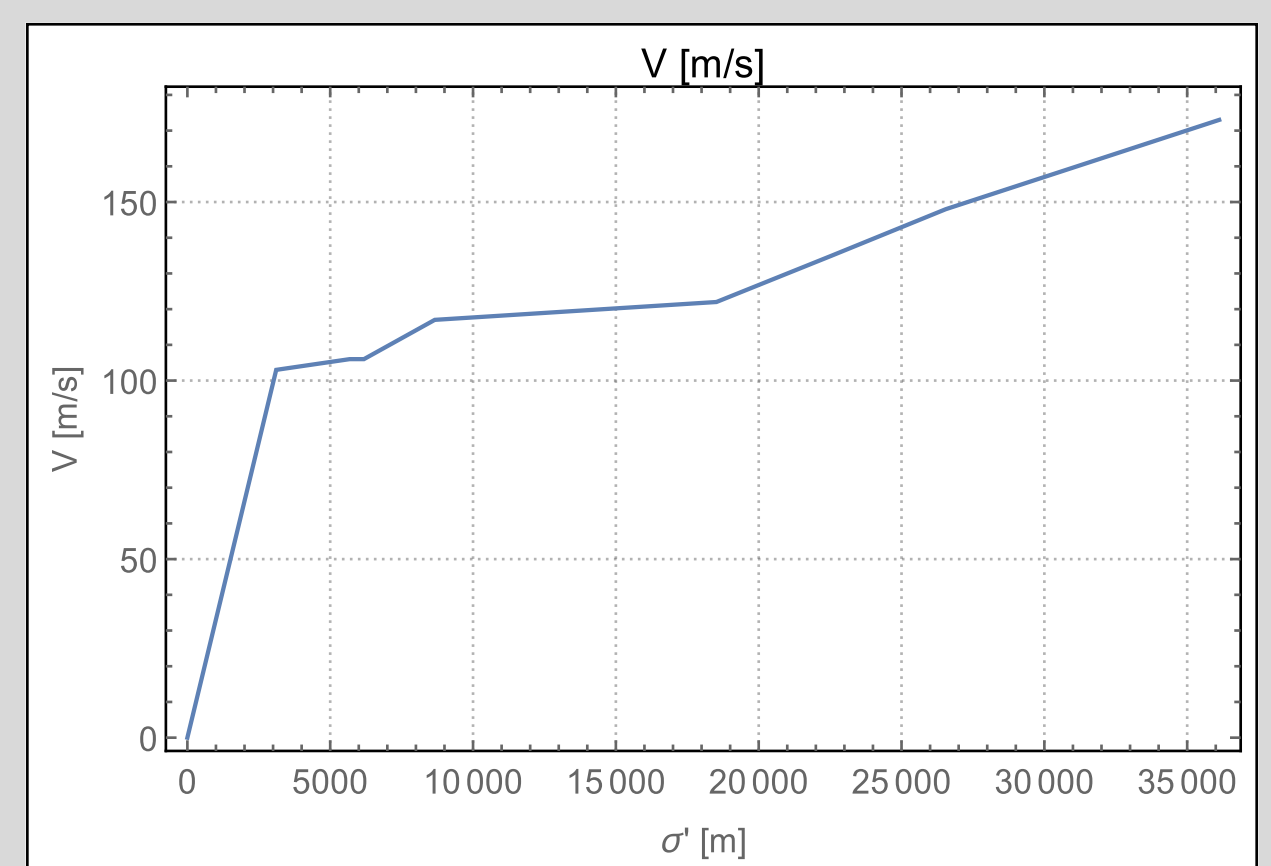
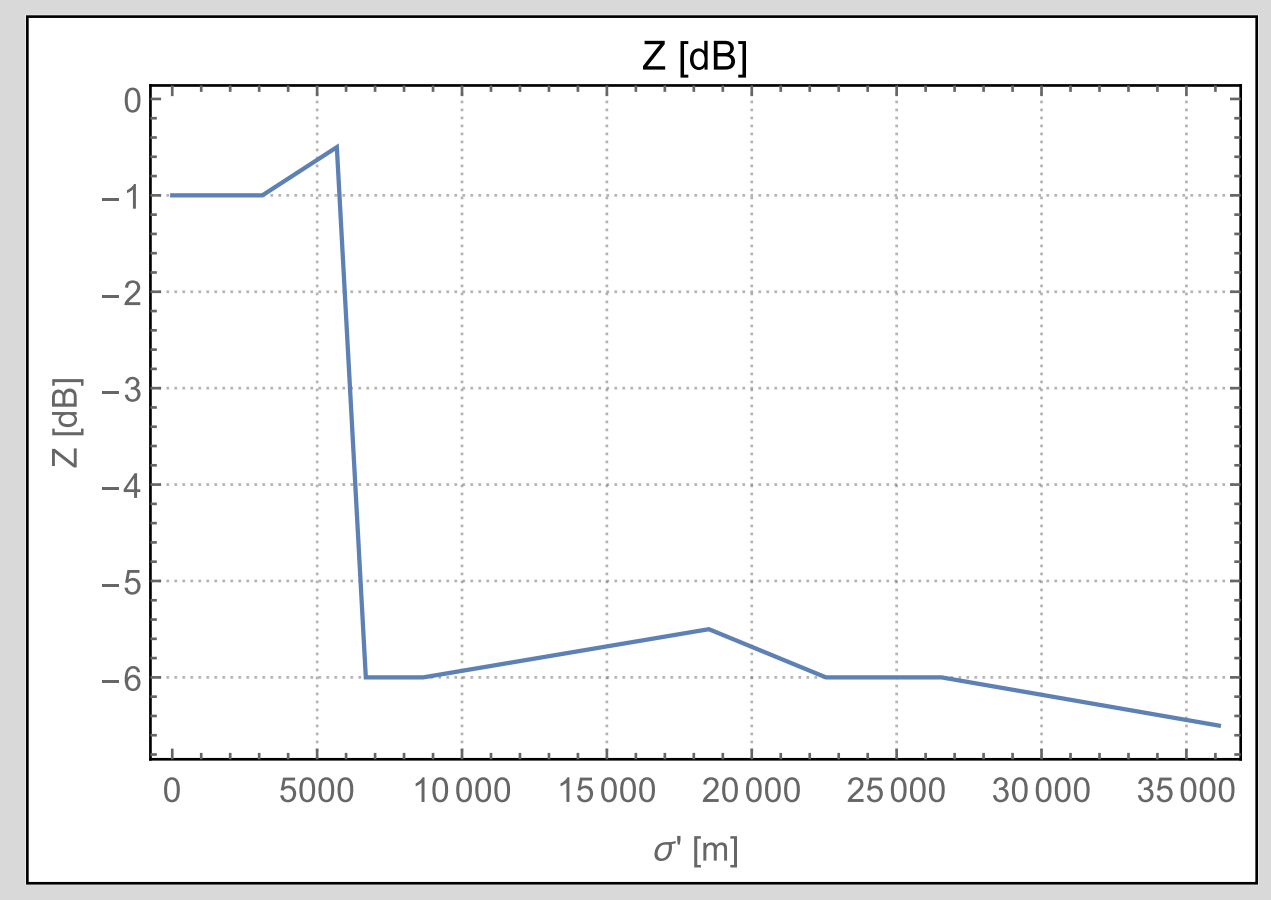
7773ER 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3110	-1	103	0
5680	-0,5	106	-
6180	-	106	457
6680	-6	-	-
8660	-6	117	585
18520	-5,5	122	1436
22560	-6	135	1611
26550	-6	148	1792
36120	-6,5	173	2205
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 36120	0	0	0,062

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	FLAP_5	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	FLAP_5	MaxTakeoff	1500.	0.
3	Accelerate to 220 kt	ACC	1.	FLAP_5	MaxClimb	220.	0.
4	Climb to 10NM	CSD	0	FLAP_5	MaxClimb	18520.	0.
5	Accelerate to Flaps 1 Speed	ACC	0	FLAP_5	MaxClimb	242.	0.
6	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	262.	0.
7	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	109 932 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	200. knots	200.9 knots	86 474 lbf	3112 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	200. knots	200.9 knots	-23 458 lbf	3112 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	200.9 knots	86 474 lbf	3112 m	328 ft	8.46°	2994 ft/min	-1. dB <sub>A</sub>
End	200. knots	205.4 knots	87 171 lbf	6185 m	1828 ft	8.46°	3061 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	4.5 knots	697 lbf	3073 m	1500 ft	0.°	67 ft/min	0.5 dB <sub>A</sub>

Segment 3 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	205.4 knots	70 371 lbf	6185 m	1828 ft	2.96°	1074 ft/min	-5.5 dB <sub>A</sub>
End	220. knots	227.4 knots	68 457 lbf	8661 m	2248 ft	2.96°	1189 ft/min	-6. dB <sub>A</sub>
Gain	20. knots	22. knots	-1914 lbf	2476 m	420 ft	0.°	115 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.4 knots	68 457 lbf	8661 m	2248 ft	4.93°	1979 ft/min	-6. dB <sub>A</sub>
End	220. knots	237.1 knots	71 496 lbf	18518 m	5038 ft	4.93°	2064 ft/min	-5.5 dB <sub>A</sub>
Gain	0. knots	9.7 knots	3039 lbf	9857 m	2790 ft	0.°	85 ft/min	0.5 dB <sub>A</sub>

Segment 5 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	237.1 knots	71 496 lbf	18518 m	5038 ft	2.48°	1039 ft/min	-5.5 dB <sub>A</sub>
End	242. knots	263.1 knots	69 491 lbf	22564 m	5613 ft	2.48°	1153 ft/min	-6. dB <sub>A</sub>
Gain	22. knots	26. knots	-2005 lbf	4046 m	575 ft	0.°	114 ft/min	-0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	263.1 knots	69 490 lbf	22564 m	5613 ft	2.61°	1213 ft/min	-6. dB <sub>A</sub>
End	262. knots	287.4 knots	67 740 lbf	26547 m	6208 ft	2.61°	1326 ft/min	-6. dB <sub>A</sub>
Gain	20. knots	24.3 knots	-1750 lbf	3983 m	595 ft	0.°	113 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	262. knots	287.4 knots	67 739 lbf	26547 m	6208 ft	2.47°	1255 ft/min	-6. dB <sub>A</sub>
End	300. knots	336. knots	64 631 lbf	36118 m	7563 ft	2.47°	1467 ft/min	-6.5 dB <sub>A</sub>
Gain	38. knots	48.6 knots	-3108 lbf	9571 m	1355 ft	0.°	212 ft/min	-0.5 dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	336. knots	64 631 lbf	36118 m	7563 ft	3.55°	2107 ft/min	-6.5 dB <sub>A</sub>
End	300. knots	380.1 knots	72 239 lbf	74236 m	15328 ft	3.55°	2383 ft/min	-5.5 dB <sub>A</sub>
Gain	0. knots	44.1 knots	7608 lbf	38118 m	7765 ft	0.°	276 ft/min	1. dB <sub>A</sub>

# NADP2-15

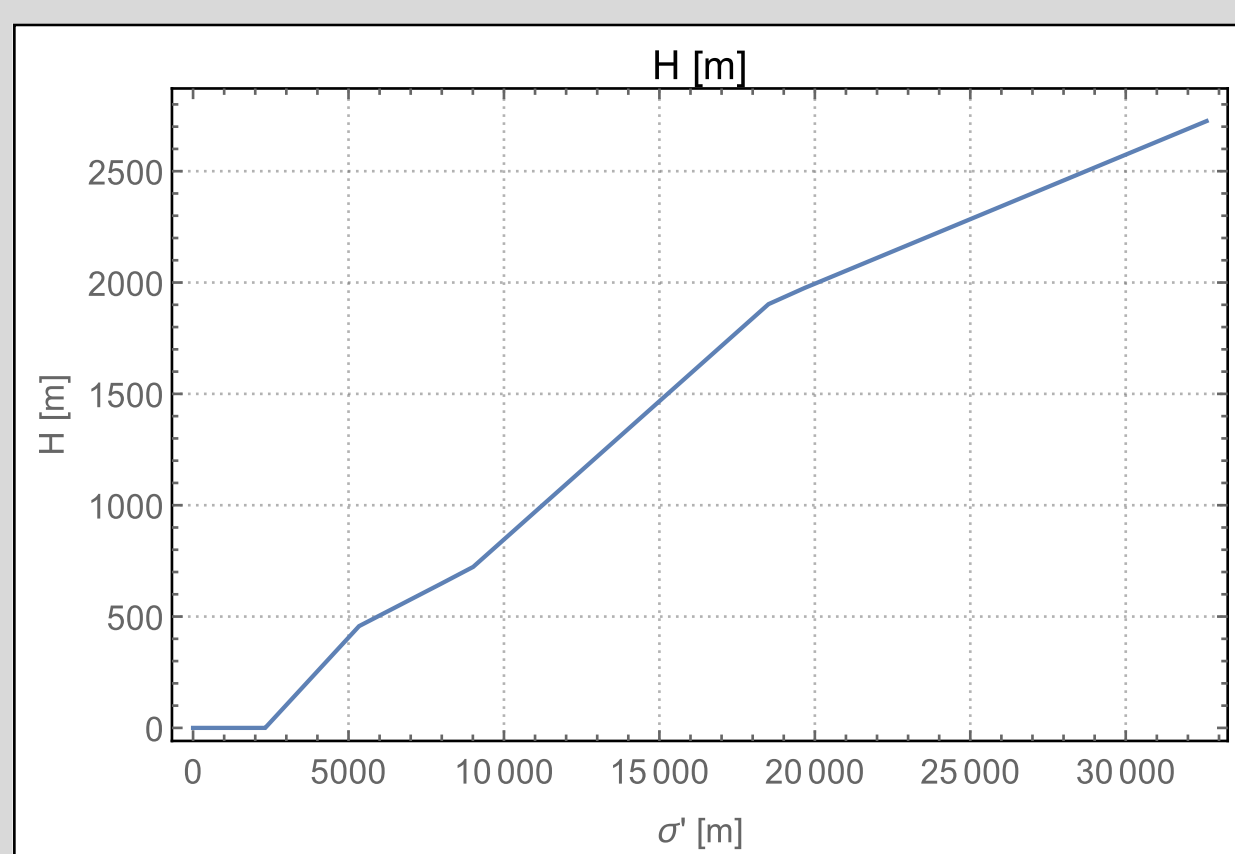
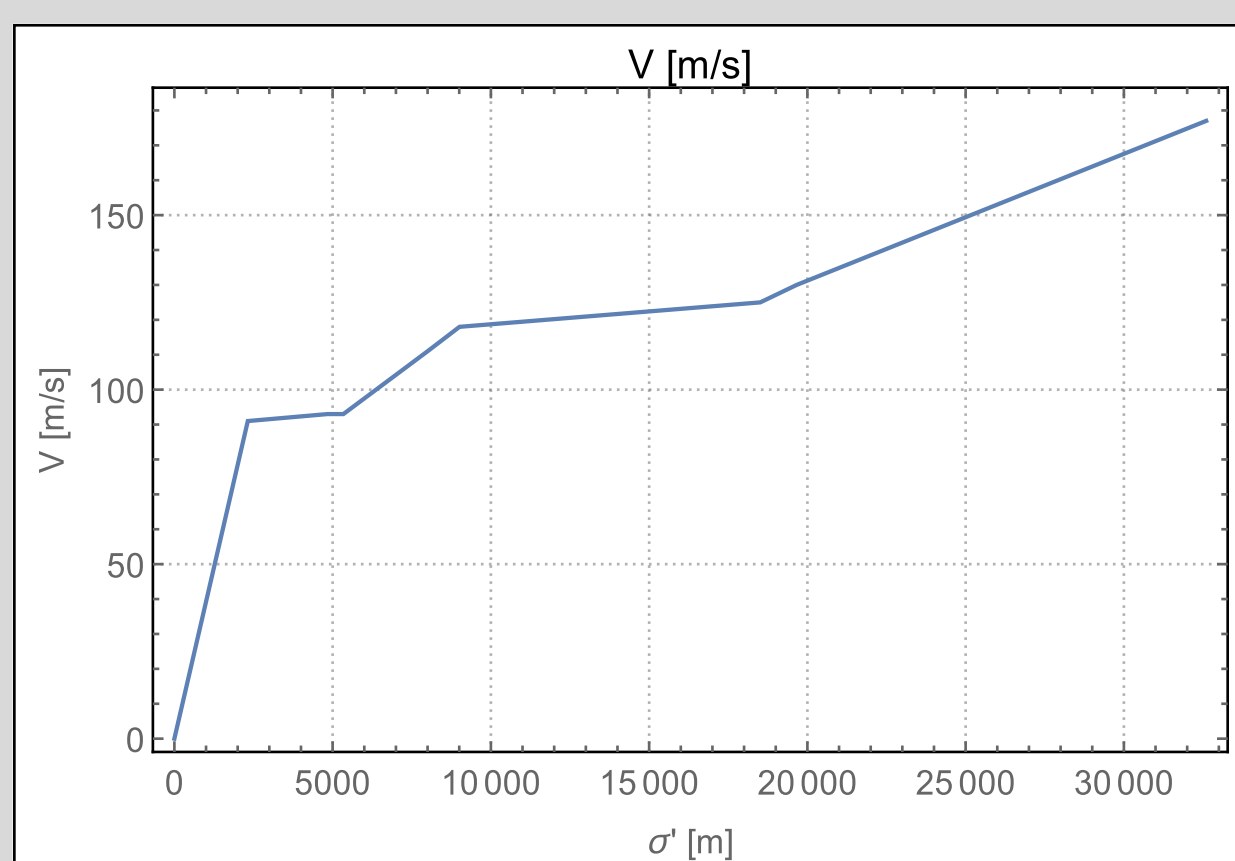
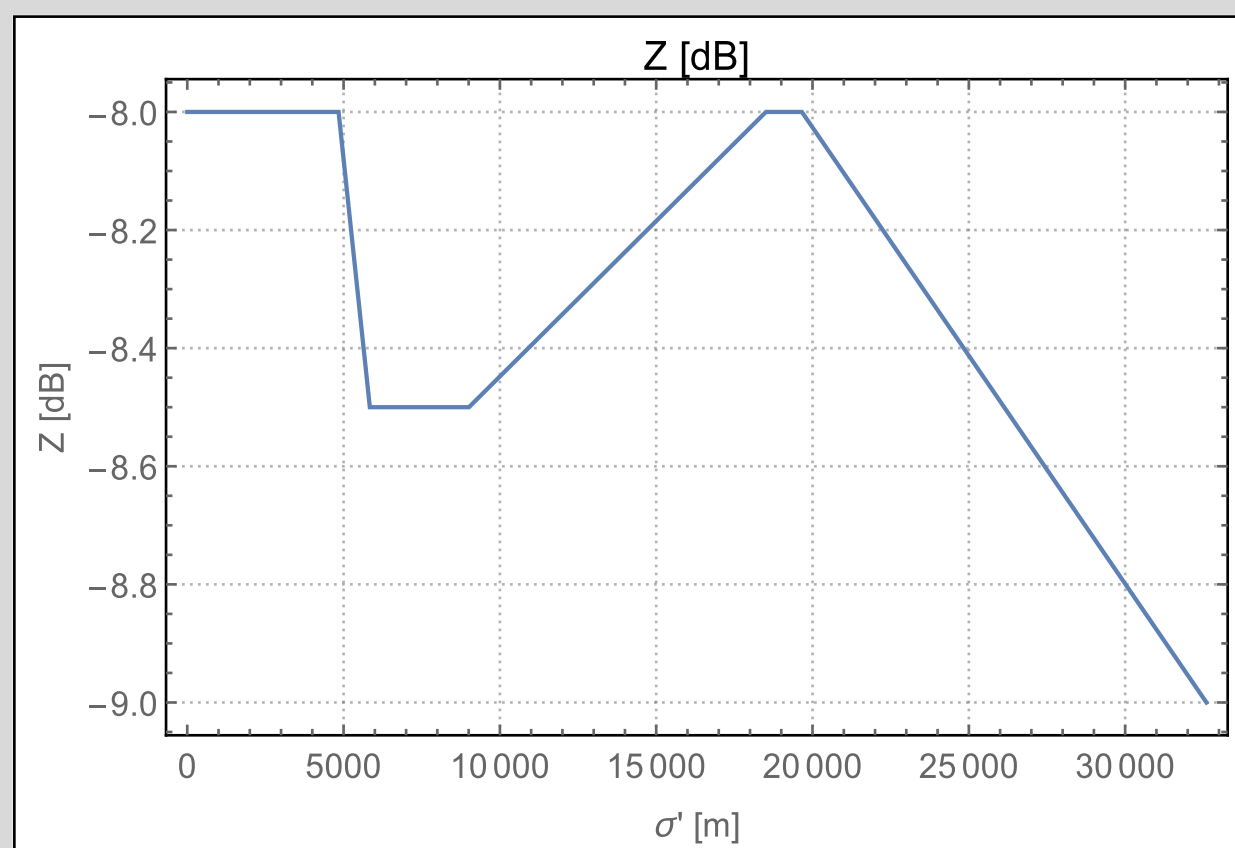
7773ER 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-8	0	0
2320	-8	91	0
4840	-8	93	-
5340	-	93	457
5840	-8,5	-	-
8000	-8,5	111	649
9010	-8,5	118	723
18510	-8	125	1903
19660	-8	130	1975
32600	-9	177	2725
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 32600	0	0	0,082

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	FLAP_5	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	FLAP_5	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	FLAP_5	MaxClimb	209.	0.
4	Accelerate to 220 kt	ACC	0	FLAP_1	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	FLAP_1	MaxClimb	18520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	229.	0.
7	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	81 156 lbf	0 m	328 ft	0.°	0 ft/min	-8. dB <sub>A</sub>
End	176. knots	176.8 knots	65 917 lbf	2322 m	328 ft	0.°	0 ft/min	-8. dB <sub>A</sub>
Gain	176. knots	176.8 knots	-15 239 lbf	2322 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	176.8 knots	65 917 lbf	2322 m	328 ft	8.61°	2681 ft/min	-8. dB <sub>A</sub>
End	176. knots	180.8 knots	66 432 lbf	5340 m	1828 ft	8.61°	2741 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	4. knots	515 lbf	3018 m	1500 ft	0.°	60 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	180.8 knots	66 432 lbf	5340 m	1828 ft	4.12°	1315 ft/min	-8. dB <sub>A</sub>
End	209. knots	216.7 knots	63 504 lbf	8004 m	2458 ft	4.12°	1577 ft/min	-8.5 dB <sub>A</sub>
Gain	33. knots	35.9 knots	-2928 lbf	2664 m	630 ft	0.°	262 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	216.7 knots	63 504 lbf	8004 m	2458 ft	4.2°	1607 ft/min	-8.5 dB <sub>A</sub>
End	220. knots	228.9 knots	62 559 lbf	9009 m	2700 ft	4.2°	1698 ft/min	-8.5 dB <sub>A</sub>
Gain	11. knots	12.2 knots	-945 lbf	1005 m	242 ft	0.°	91 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	228.9 knots	62 559 lbf	9009 m	2700 ft	7.08°	2857 ft/min	-8.5 dB <sub>A</sub>
End	220. knots	242.7 knots	66 333 lbf	18 509 m	6570 ft	7.08°	3030 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	13.8 knots	3774 lbf	9500 m	3870 ft	0.°	173 ft/min	0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	242.7 knots	66 333 lbf	18 509 m	6570 ft	3.62°	1552 ft/min	-8. dB <sub>A</sub>
End	229. knots	253.5 knots	65 589 lbf	19 660 m	6809 ft	3.62°	1621 ft/min	-8. dB <sub>A</sub>
Gain	9. knots	10.8 knots	-744 lbf	1151 m	239 ft	0.°	69 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	253.5 knots	65 588 lbf	19 660 m	6809 ft	3.32°	1487 ft/min	-8. dB <sub>A</sub>
End	300. knots	345. knots	60 217 lbf	32 603 m	9269 ft	3.32°	2024 ft/min	-9. dB <sub>A</sub>
Gain	71. knots	91.5 knots	-5371 lbf	12 943 m	2460 ft	0.°	537 ft/min	-1. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	345. knots	60 216 lbf	32 603 m	9269 ft	4.68°	2851 ft/min	-9. dB <sub>A</sub>
End	300. knots	380.1 knots	65 536 lbf	55 187 m	15 328 ft	4.68°	3141 ft/min	-8. dB <sub>A</sub>
Gain	0. knots	35.1 knots	5320 lbf	22 584 m	6059 ft	0.°	290 ft/min	1. dB <sub>A</sub>



# NADP1

A320-211 95% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
1660	-1	86	0
3950	-0,5	88	-
4450	-	88	457
4950	-3	-	-
8220	-3	90	914
12510	-3	115	1169
13680	-3	121	1241
18520	-2,5	124	1752
19220	-2,5	127	1791
32290	-2,5	176	2558

$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 32290	0	0	0,088

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	1+F	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	1+F	MaxClimb	3000.	0.
4	Accelerate to Flaps 1 Speed	ACC	0	1+F	MaxClimb	210.	0.
5	Accelerate to 220 kt	ACC	0	1.	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	1.	MaxClimb	18520.	0.
7	Accelerate to Flaps UP Speed	ACC	0	1.	MaxClimb	225.	0.
8	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	22562 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	167. knots	167.8 knots	18923 lbf	1656 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	167. knots	167.8 knots	-3639 lbf	1656 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	167.8 knots	18923 lbf	1656 m	328 ft	9.28°	2740 ft/min	-1. dB <sub>A</sub>
End	167. knots	171.5 knots	19328 lbf	4454 m	1828 ft	9.28°	2801 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	3.7 knots	405 lbf	2798 m	1500 ft	0.°	61 ft/min	0.5 dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	171.5 knots	16473 lbf	4454 m	1828 ft	6.92°	2093 ft/min	-3. dB <sub>A</sub>
End	167. knots	175.4 knots	16772 lbf	8222 m	3328 ft	6.92°	2140 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	3.9 knots	299 lbf	3768 m	1500 ft	0.°	47 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 1 Speed 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	175.4 knots	16772 lbf	8222 m	3328 ft	3.41°	1057 ft/min	-3. dB <sub>A</sub>
End	210. knots	223.4 knots	16756 lbf	12506 m	4165 ft	3.41°	1345 ft/min	-3. dB <sub>A</sub>
Gain	43. knots	48. knots	-16 lbf	4284 m	837 ft	0.°	288 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to 220 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	210. knots	223.4 knots	16756 lbf	12506 m	4165 ft	3.47°	1369 ft/min	-3. dB <sub>A</sub>
End	220. knots	234.8 knots	16761 lbf	13678 m	4398 ft	3.47°	1439 ft/min	-3. dB <sub>A</sub>
Gain	10. knots	11.4 knots	5 lbf	1172 m	233 ft	0.°	70 ft/min	0. dB <sub>A</sub>

Segment 6 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.8 knots	16761 lbf	13678 m	4398 ft	6.03°	2498 ft/min	-3. dB <sub>A</sub>
End	220. knots	240.9 knots	17122 lbf	18519 m	6076 ft	6.03°	2563 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	6.1 knots	361 lbf	4841 m	1678 ft	0.°	65 ft/min	0.5 dB <sub>A</sub>

Segment 7 Accelerate to Flaps UP Speed 50% Climb/50% Acceleration

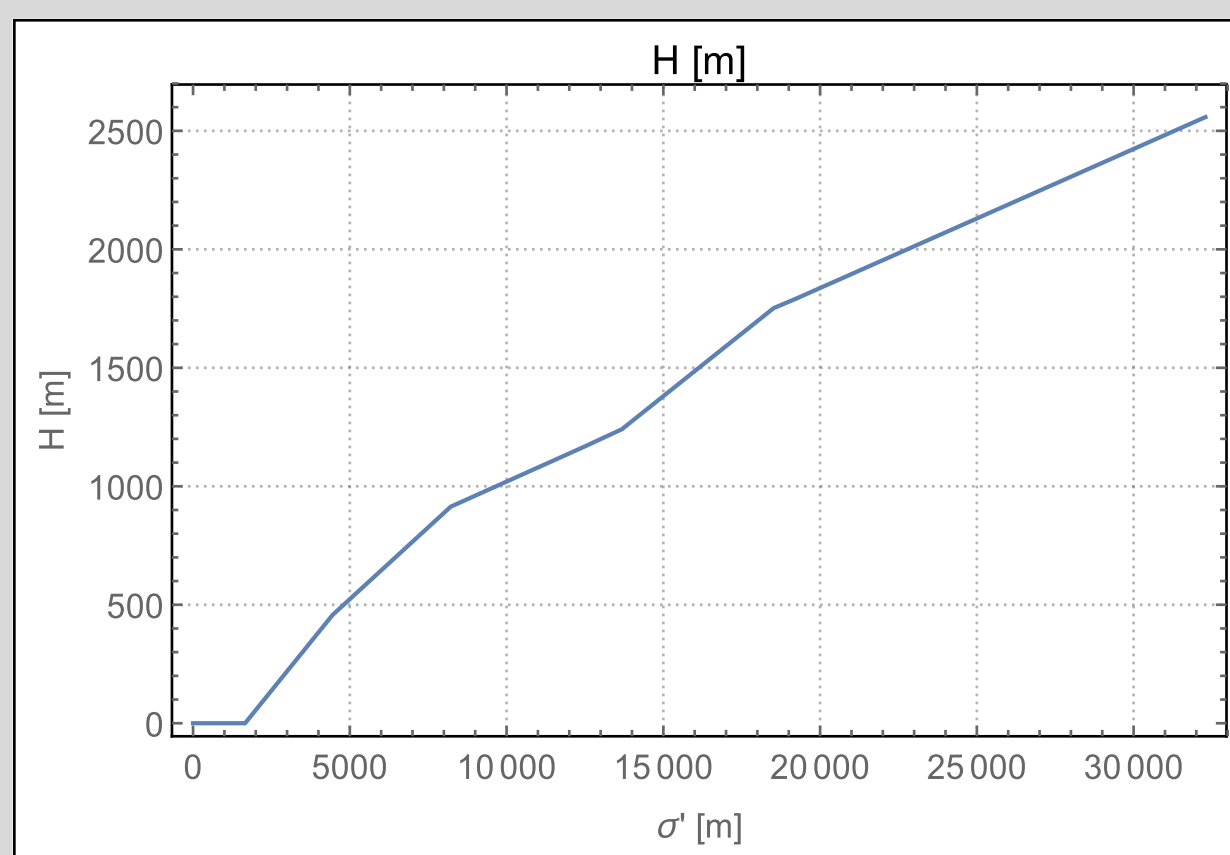
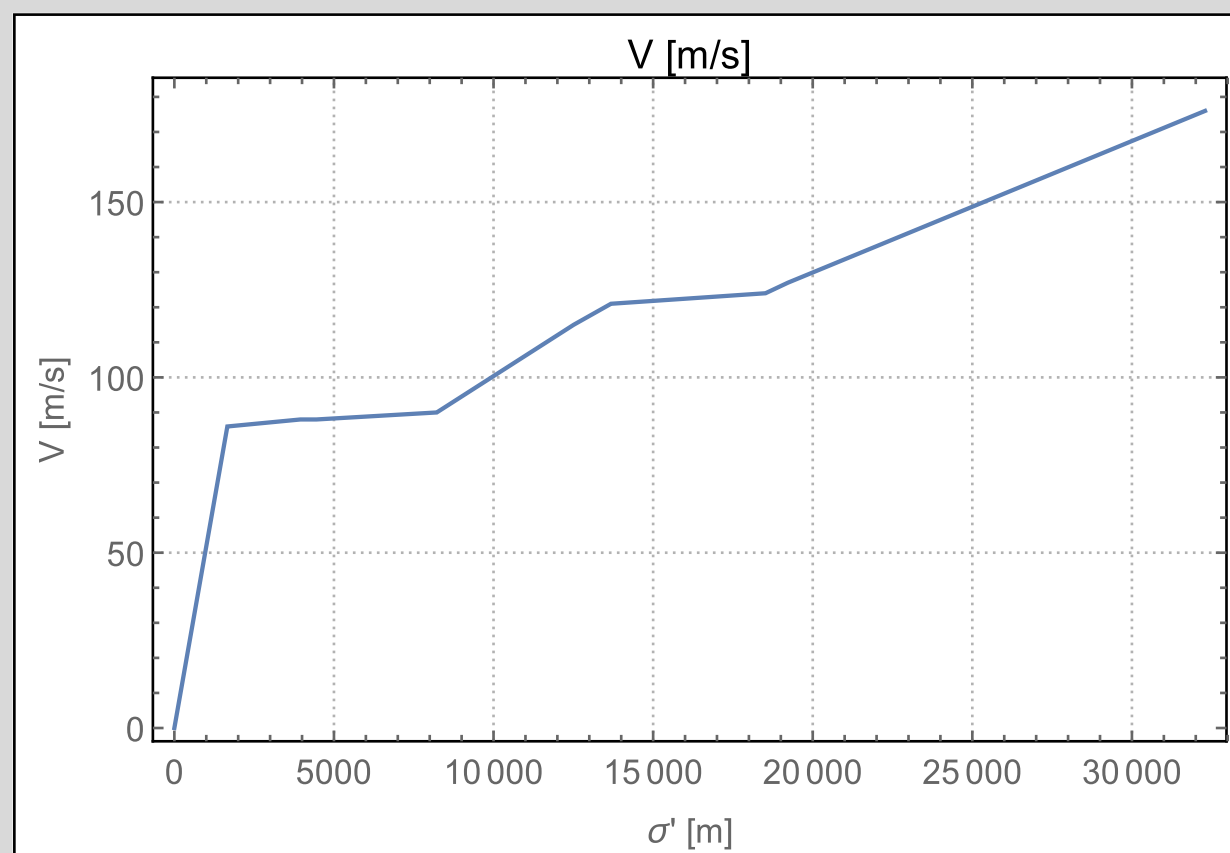
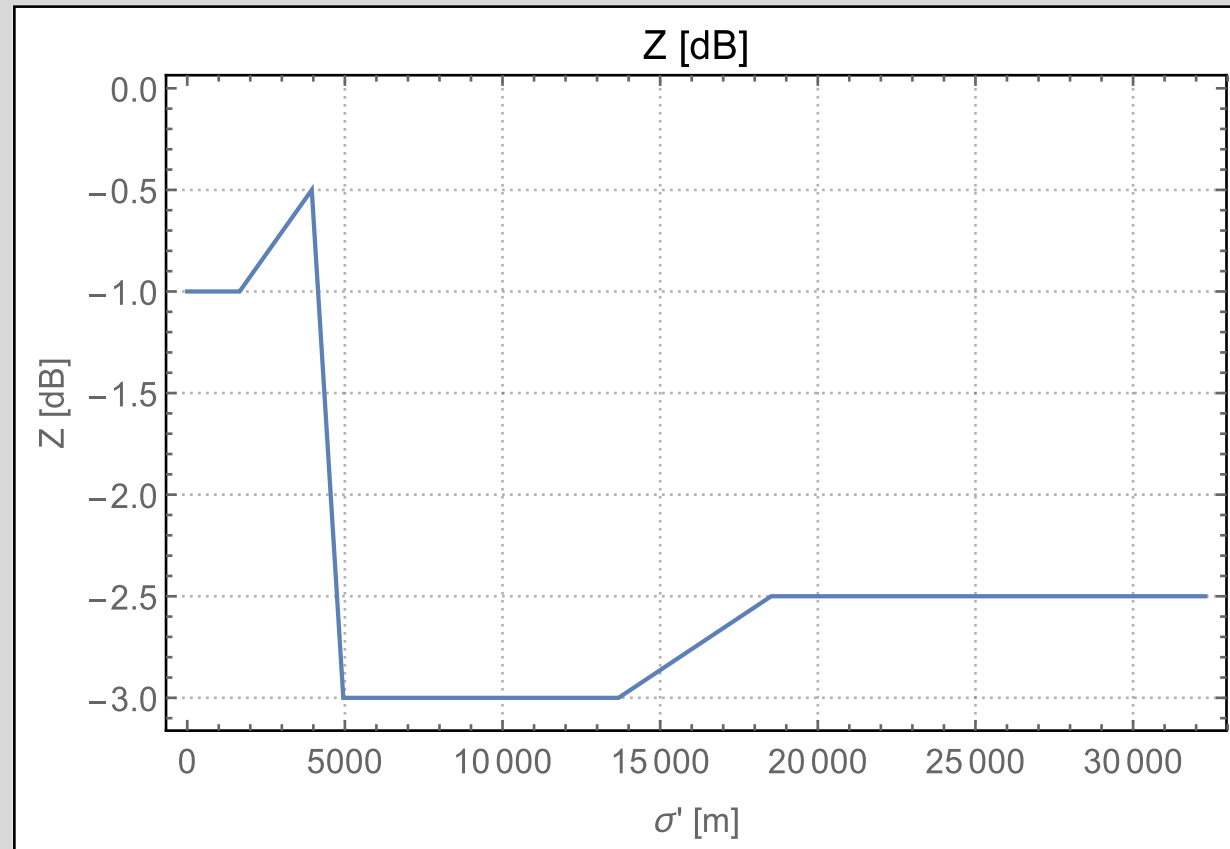
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	240.9 knots	17122 lbf	18519 m	6076 ft	3.22°	1370 ft/min	-2.5 dB <sub>A</sub>
End	225. knots	246.8 knots	17128 lbf	19218 m	6205 ft	3.22°	1404 ft/min	-2.5 dB <sub>A</sub>
Gain	5. knots	5.9 knots	6 lbf	699 m	129 ft	0.°	34 ft/min	0. dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	225. knots	246.8 knots	17128 lbf	19218 m	6205 ft	3.36°	1465 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	342.1 knots	17374 lbf	32289 m	8721 ft	3.36°	2031 ft/min	-2.5 dB <sub>A</sub>
Gain	75. knots	95.3 knots	246 lbf	13071 m	2516 ft	0.°	566 ft/min	0. dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	342.1 knots	17374 lbf	32289 m	8721 ft	5.05°	3050 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	380.1 knots	19062 lbf	55074 m	15328 ft	5.05°	3388 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	38. knots	1688 lbf	22785 m	6607 ft	0.°	338 ft/min	1.5 dB <sub>A</sub>



# NADP1

A320-211 85% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-2,5	0	0
1490	-2,5	84	0
3770	-2,5	86	-
4270	-	86	457
4770	-3	-	-
7480	-3	88	914
11600	-3	116	1202
12450	-3	121	1267
18510	-2,5	126	2063
31290	-2,5	179	2906
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 31290	0	0	0,101

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	1+F	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	1+F	MaxClimb	3000.	0.
4	Accelerate to Flaps UP Speed	ACC	0	1+F	MaxClimb	211.	0.
5	Accelerate to 220 kt	ACC	0	ZERO	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	ZERO	MaxClimb	18520.	0.
7	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	20 357 lbf	0 m	328 ft	0.°	0 ft/min	-2.5 dB <sub>A</sub>
End	162. knots	162.7 knots	17 172 lbf	1490 m	328 ft	0.°	0 ft/min	-2.5 dB <sub>A</sub>
Gain	162. knots	162.7 knots	-3185 lbf	1490 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	17 172 lbf	1490 m	328 ft	9.34°	2675 ft/min	-2.5 dB <sub>A</sub>
End	162. knots	166.4 knots	17 537 lbf	4269 m	1828 ft	9.34°	2735 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	3.7 knots	365 lbf	2779 m	1500 ft	0.°	60 ft/min	0. dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	166.4 knots	16 495 lbf	4269 m	1828 ft	8.11°	2377 ft/min	-3. dB <sub>A</sub>
End	162. knots	170.2 knots	16 794 lbf	7479 m	3328 ft	8.11°	2431 ft/min	-3. dB <sub>A</sub>
Gain	0. knots	3.8 knots	299 lbf	3210 m	1500 ft	0.°	54 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	170.2 knots	16 794 lbf	7479 m	3328 ft	3.99°	1199 ft/min	-3. dB <sub>A</sub>
End	211. knots	224.8 knots	16 774 lbf	11 605 m	4273 ft	3.99°	1584 ft/min	-3. dB <sub>A</sub>
Gain	49. knots	54.6 knots	-20 lbf	4126 m	945 ft	0.°	385 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	211. knots	224.8 knots	16 774 lbf	11 605 m	4273 ft	4.36°	1731 ft/min	-3. dB <sub>A</sub>
End	220. knots	235.2 knots	16 779 lbf	12 453 m	4485 ft	4.36°	1810 ft/min	-3. dB <sub>A</sub>
Gain	9. knots	10.4 knots	5 lbf	848 m	212 ft	0.°	79 ft/min	0. dB <sub>A</sub>

Segment 6 Climb to 10NM

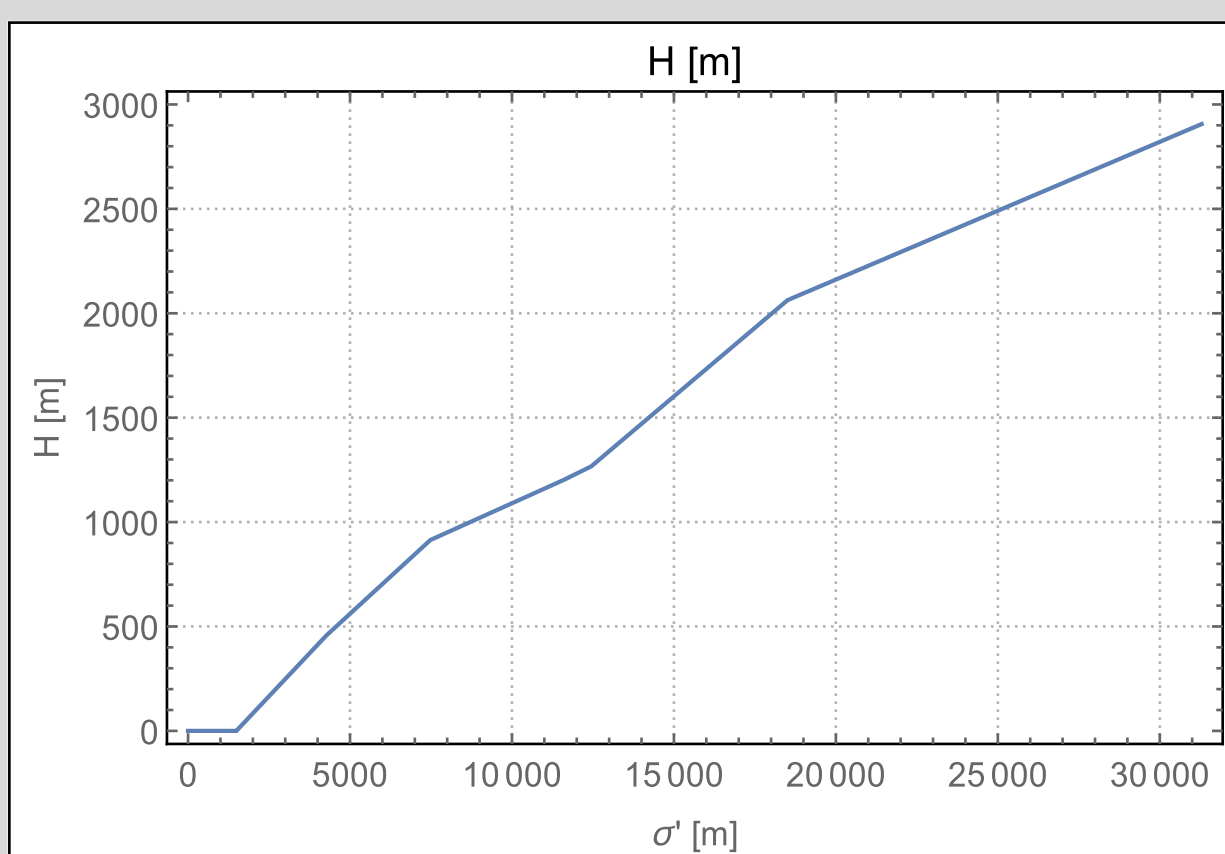
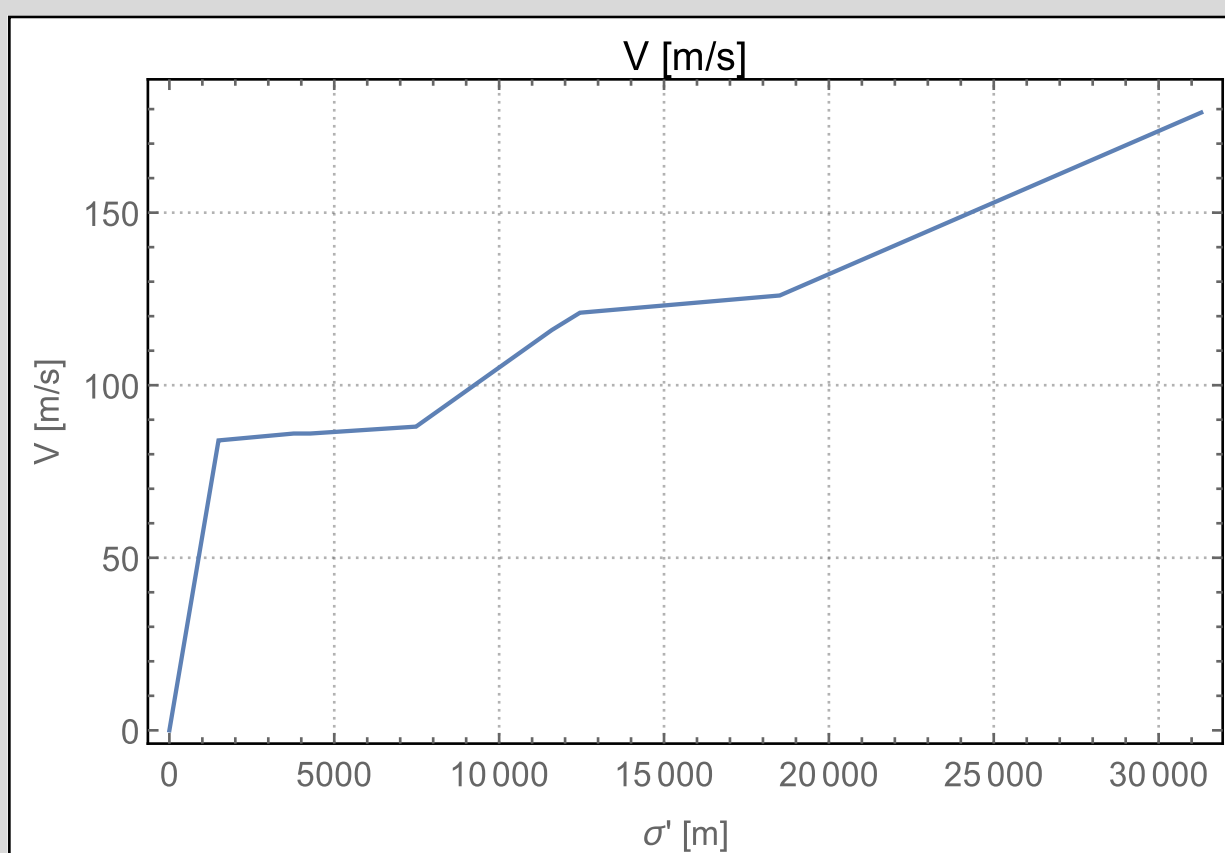
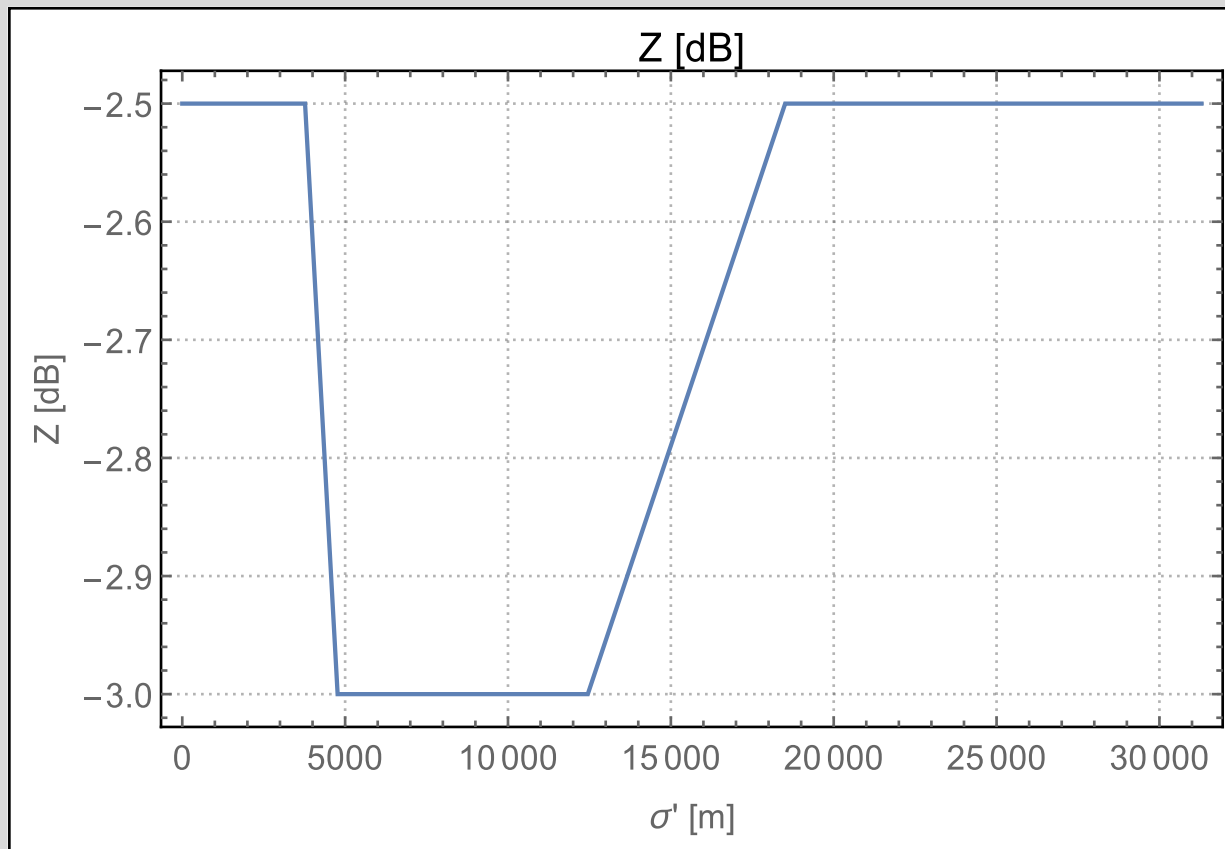
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	235.2 knots	16 779 lbf	12 453 m	4485 ft	7.49°	3104 ft/min	-3. dB <sub>A</sub>
End	220. knots	244.7 knots	17 349 lbf	18 511 m	7098 ft	7.49°	3230 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	9.5 knots	570 lbf	6058 m	2613 ft	0.°	126 ft/min	0.5 dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	244.7 knots	17 349 lbf	18 511 m	7098 ft	3.77°	1629 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	348.3 knots	17 647 lbf	31 291 m	9862 ft	3.77°	2319 ft/min	-2.5 dB <sub>A</sub>
Gain	80. knots	103.6 knots	298 lbf	12 780 m	2764 ft	0.°	690 ft/min	0. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	348.3 knots	17 647 lbf	31 291 m	9862 ft	5.77°	3546 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	380.1 knots	19 062 lbf	47 770 m	15 328 ft	5.77°	3870 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	31.8 knots	1415 lbf	16 479 m	5466 ft	0.°	324 ft/min	1.5 dB <sub>A</sub>



# NADP2-10

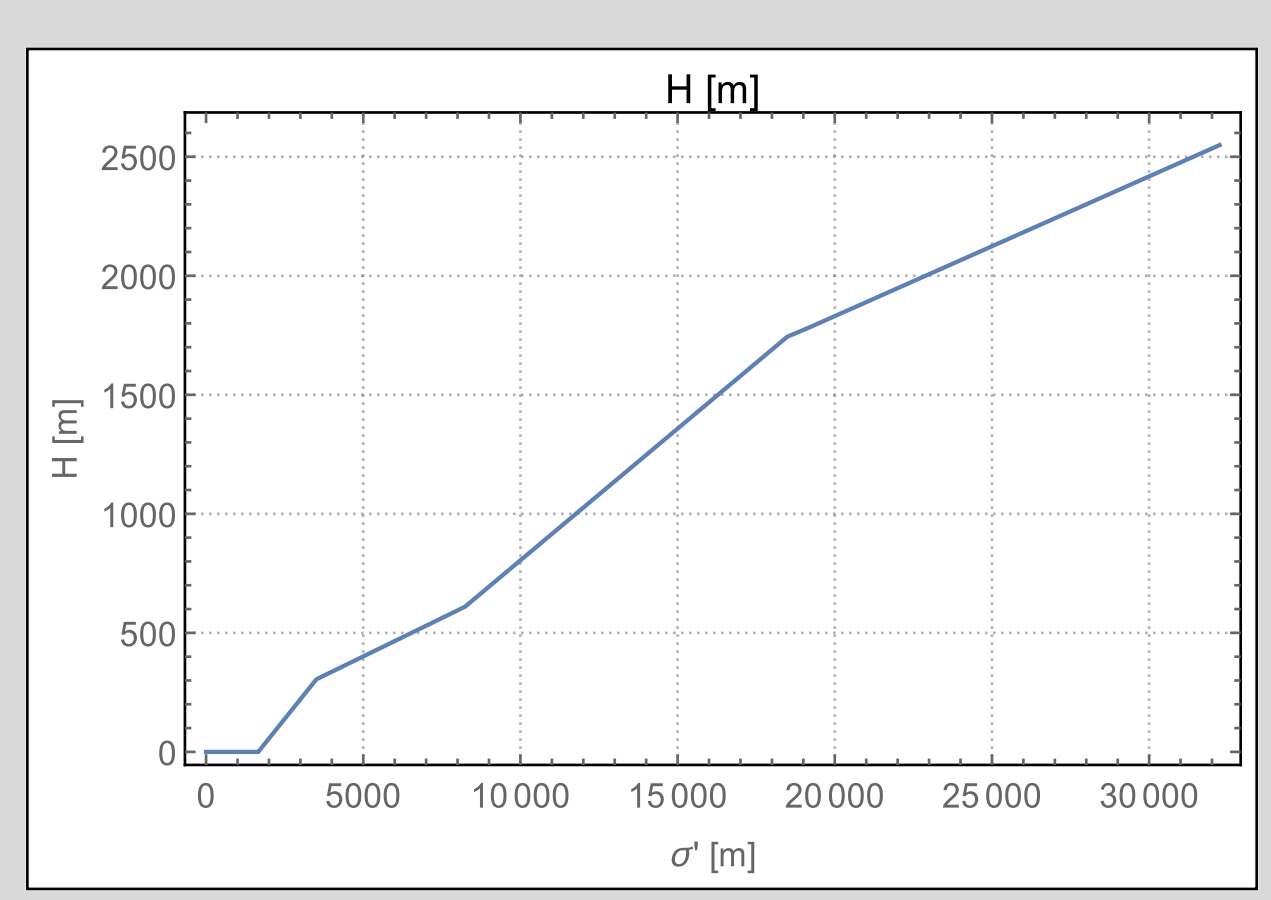
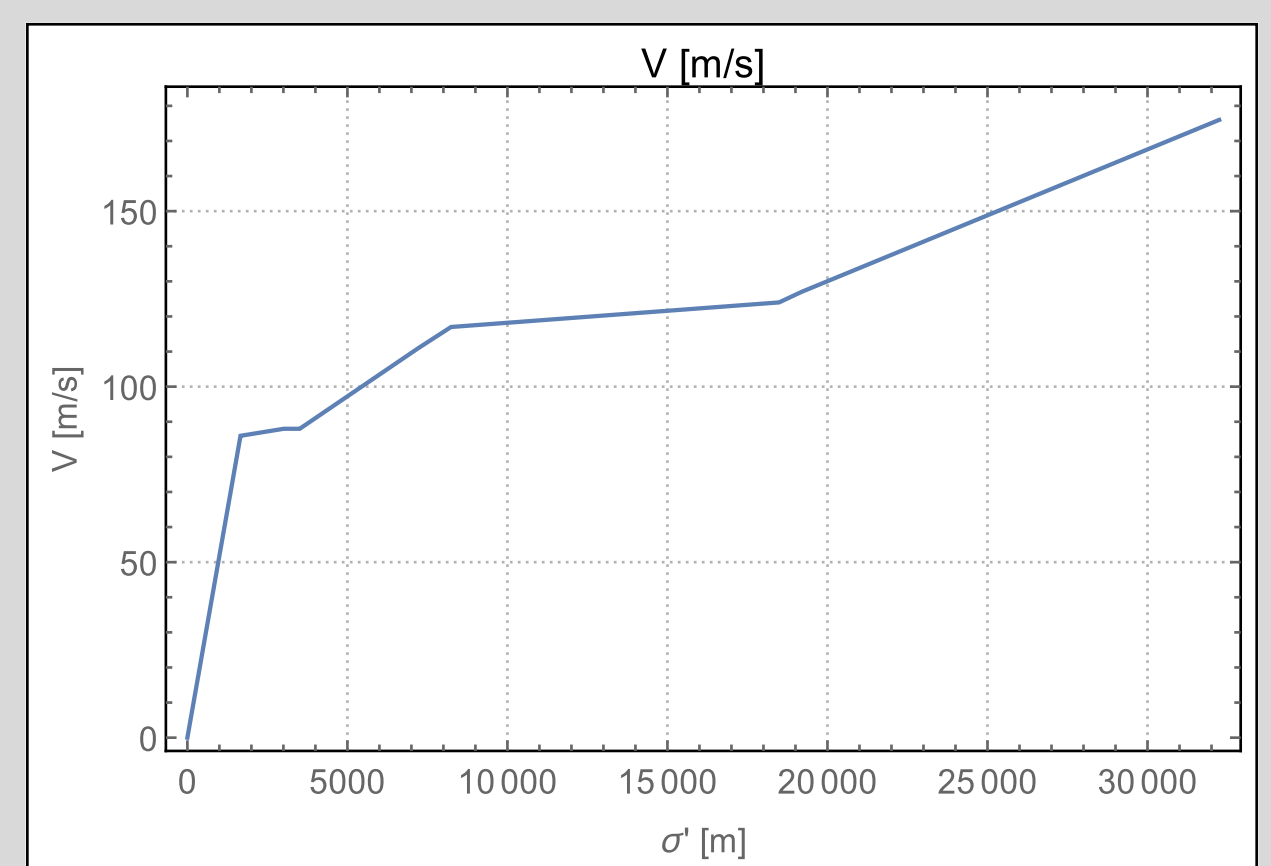
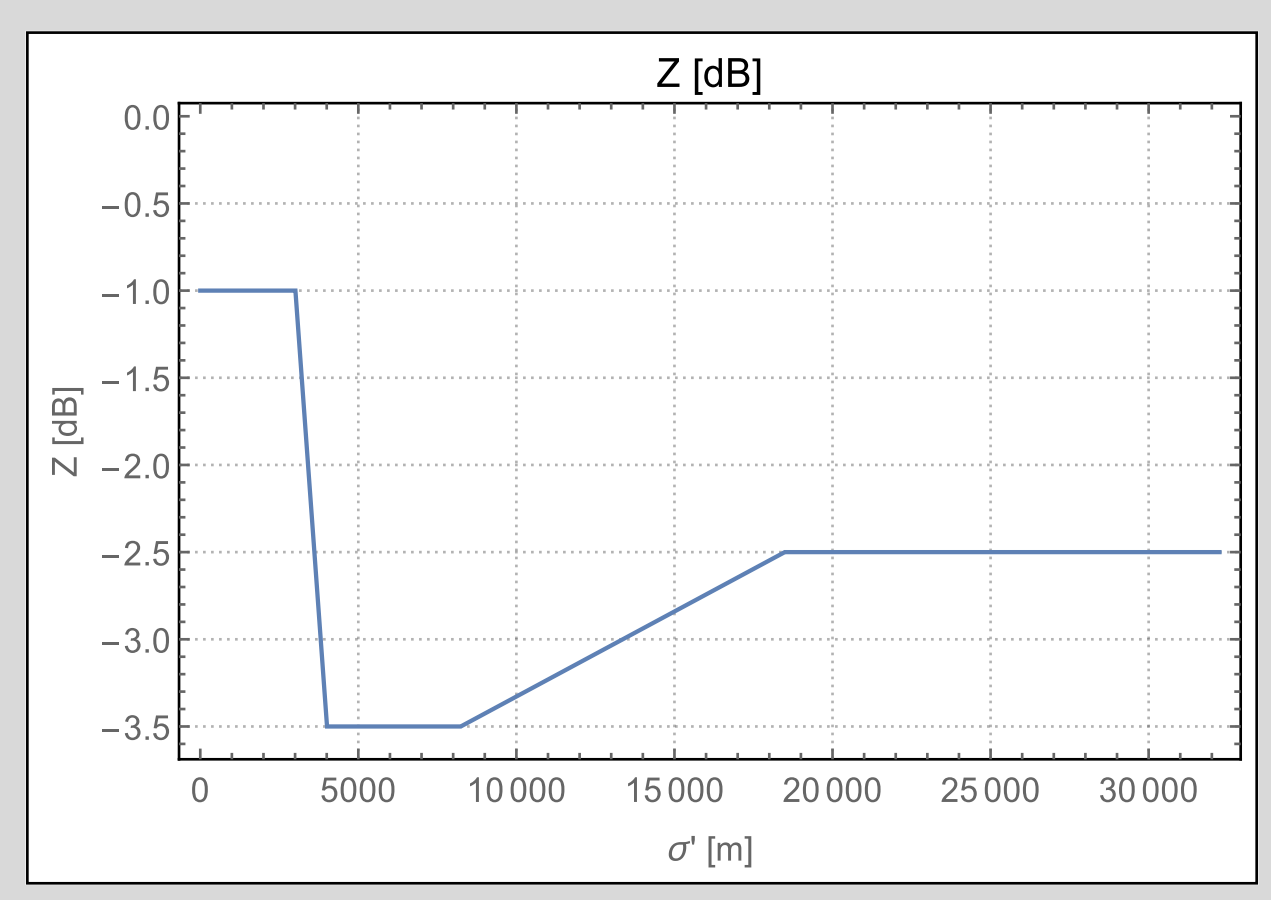
A320-211 95% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
1660	-1	86	0
3010	-1	88	-
3510	-	88	305
4010	-3,5	-	-
7220	-3,5	111	544
8240	-3,5	117	610
18490	-2,5	124	1744
19190	-2,5	127	1783
32240	-2,5	176	2549
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 32240	0	0	0,088

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	1+F	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	1+F	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	1+F	MaxClimb	210.	0.
4	Accelerate to 220 kt	ACC	0	1.	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	1.	MaxClimb	18520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	1.	MaxClimb	225.	0.
7	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	22562 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	167. knots	167.8 knots	18923 lbf	1656 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	167. knots	167.8 knots	-3639 lbf	1656 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	167.8 knots	18923 lbf	1656 m	328 ft	9.35°	2761 ft/min	-1. dB <sub>A</sub>
End	167. knots	170.3 knots	19196 lbf	3507 m	1328 ft	9.35°	2802 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	2.5 knots	273 lbf	1851 m	1000 ft	0.°	41 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	170.3 knots	16377 lbf	3507 m	1328 ft	3.68°	1107 ft/min	-3. dB <sub>A</sub>
End	210. knots	216.6 knots	16341 lbf	7221 m	2112 ft	3.68°	1408 ft/min	-3.5 dB <sub>A</sub>
Gain	43. knots	46.3 knots	-36 lbf	3714 m	784 ft	0.°	301 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	210. knots	216.6 knots	16341 lbf	7221 m	2112 ft	3.75°	1435 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	227.6 knots	16340 lbf	8235 m	2330 ft	3.75°	1508 ft/min	-3.5 dB <sub>A</sub>
Gain	10. knots	11. knots	-1 lbf	1014 m	218 ft	0.°	73 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.6 knots	16340 lbf	8235 m	2330 ft	6.31°	2534 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	240.8 knots	17116 lbf	18494 m	6049 ft	6.31°	2680 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	13.2 knots	776 lbf	10259 m	3719 ft	0.°	146 ft/min	1. dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	240.8 knots	17116 lbf	18494 m	6049 ft	3.22°	1370 ft/min	-2.5 dB <sub>A</sub>
End	225. knots	246.7 knots	17122 lbf	19192 m	6178 ft	3.22°	1404 ft/min	-2.5 dB <sub>A</sub>
Gain	5. knots	5.9 knots	6 lbf	698 m	129 ft	0.°	34 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	225. knots	246.7 knots	17122 lbf	19192 m	6178 ft	3.36°	1464 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	341.9 knots	17367 lbf	32236 m	8691 ft	3.36°	2030 ft/min	-2.5 dB <sub>A</sub>
Gain	75. knots	95.2 knots	245 lbf	13044 m	2513 ft	0.°	566 ft/min	0. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	341.9 knots	17367 lbf	32236 m	8691 ft	5.05°	3048 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	380.1 knots	19062 lbf	55106 m	15328 ft	5.05°	3388 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	38.2 knots	1695 lbf	22870 m	6637 ft	0.°	340 ft/min	1.5 dB <sub>A</sub>

# NADP2-10

A320-211 85% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-2,5	0	0
1490	-2,5	84	0
2830	-2,5	85	-
3330	-	85	305
3830	-3,5	-	-
6920	-3,5	112	575
7660	-3,5	117	635
18480	-2,5	126	2113
31420	-2	180	2961

$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 31420	0	0	0,101

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	1+F	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	1+F	MaxTakeoff	1000.	0.
3	Accelerate to Flaps UP Speed	ACC	1.	1+F	MaxClimb	211.	0.
4	Accelerate to 220 kt	ACC	0	ZERO	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	ZERO	MaxClimb	18520.	0.
6	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
7	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	20357 lbf	0 m	328 ft	0.°	0 ft/min	-2.5 dB <sub>A</sub>
End	162. knots	162.7 knots	17172 lbf	1490 m	328 ft	0.°	0 ft/min	-2.5 dB <sub>A</sub>
Gain	162. knots	162.7 knots	-3185 lbf	1490 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	17172 lbf	1490 m	328 ft	9.42°	2698 ft/min	-2.5 dB <sub>A</sub>
End	162. knots	165.2 knots	17418 lbf	3328 m	1328 ft	9.42°	2738 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	2.5 knots	246 lbf	1838 m	1000 ft	0.°	40 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps UP Speed 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	165.2 knots	16399 lbf	3328 m	1328 ft	4.29°	1251 ft/min	-3.5 dB <sub>A</sub>
End	211. knots	218. knots	16356 lbf	6920 m	2213 ft	4.29°	1651 ft/min	-3.5 dB <sub>A</sub>
Gain	49. knots	52.8 knots	-43 lbf	3592 m	885 ft	0.°	400 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	211. knots	218. knots	16356 lbf	6920 m	2213 ft	4.66°	1793 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	227.9 knots	16356 lbf	7660 m	2411 ft	4.66°	1875 ft/min	-3.5 dB <sub>A</sub>
Gain	9. knots	9.9 knots	0 lbf	740 m	198 ft	0.°	82 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

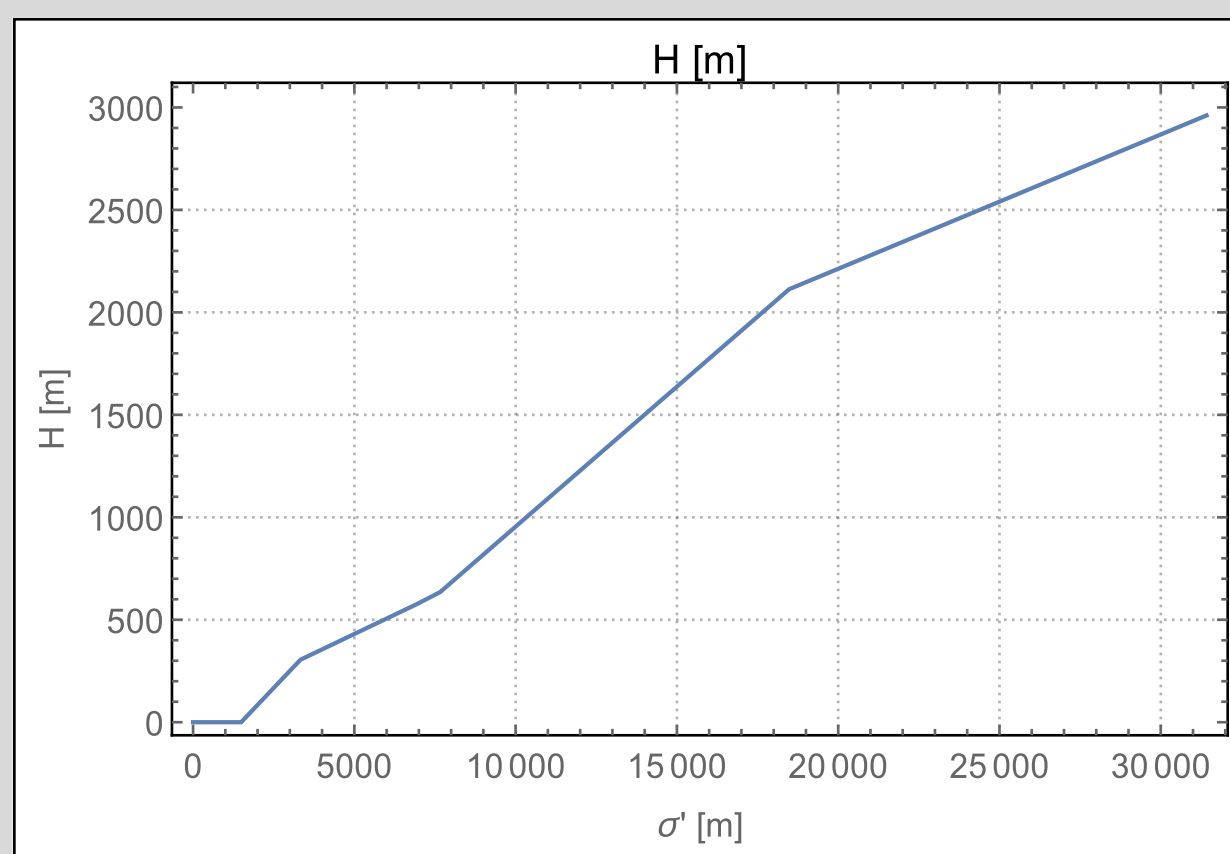
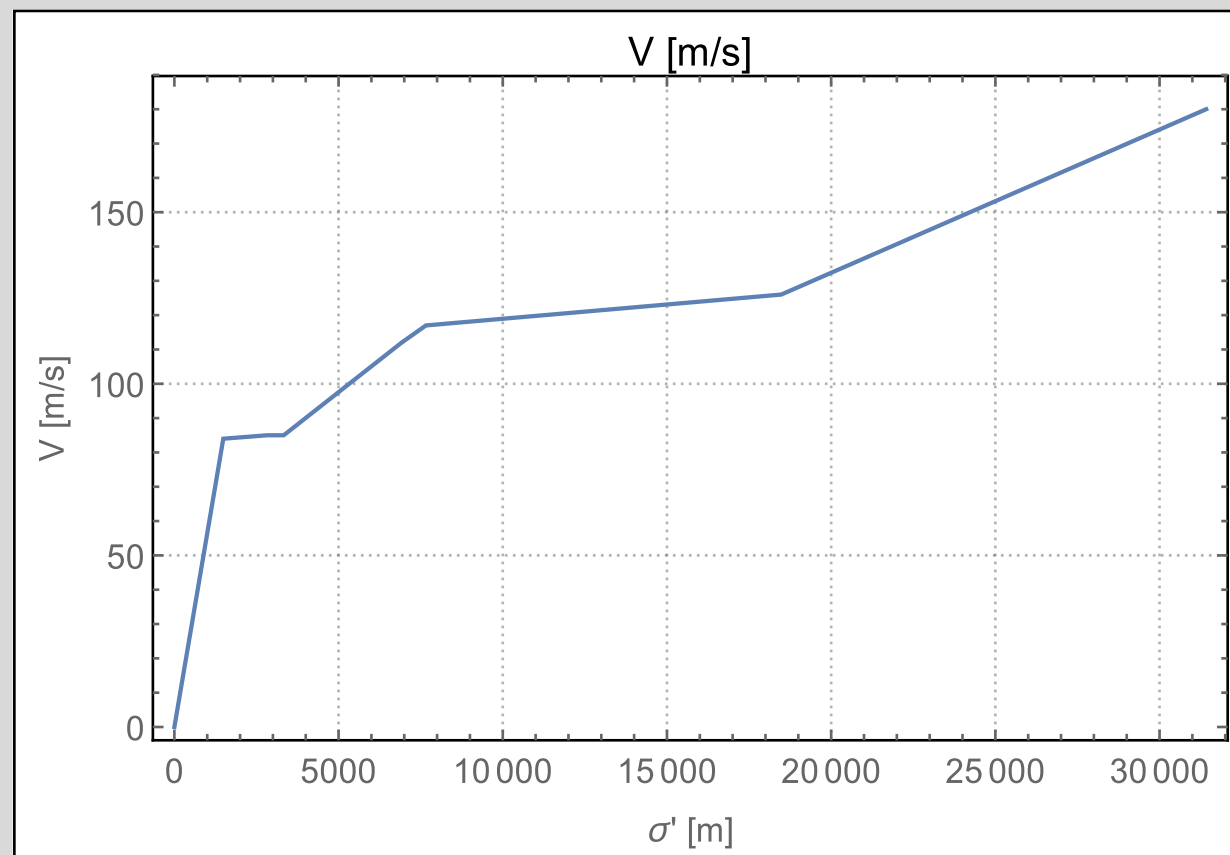
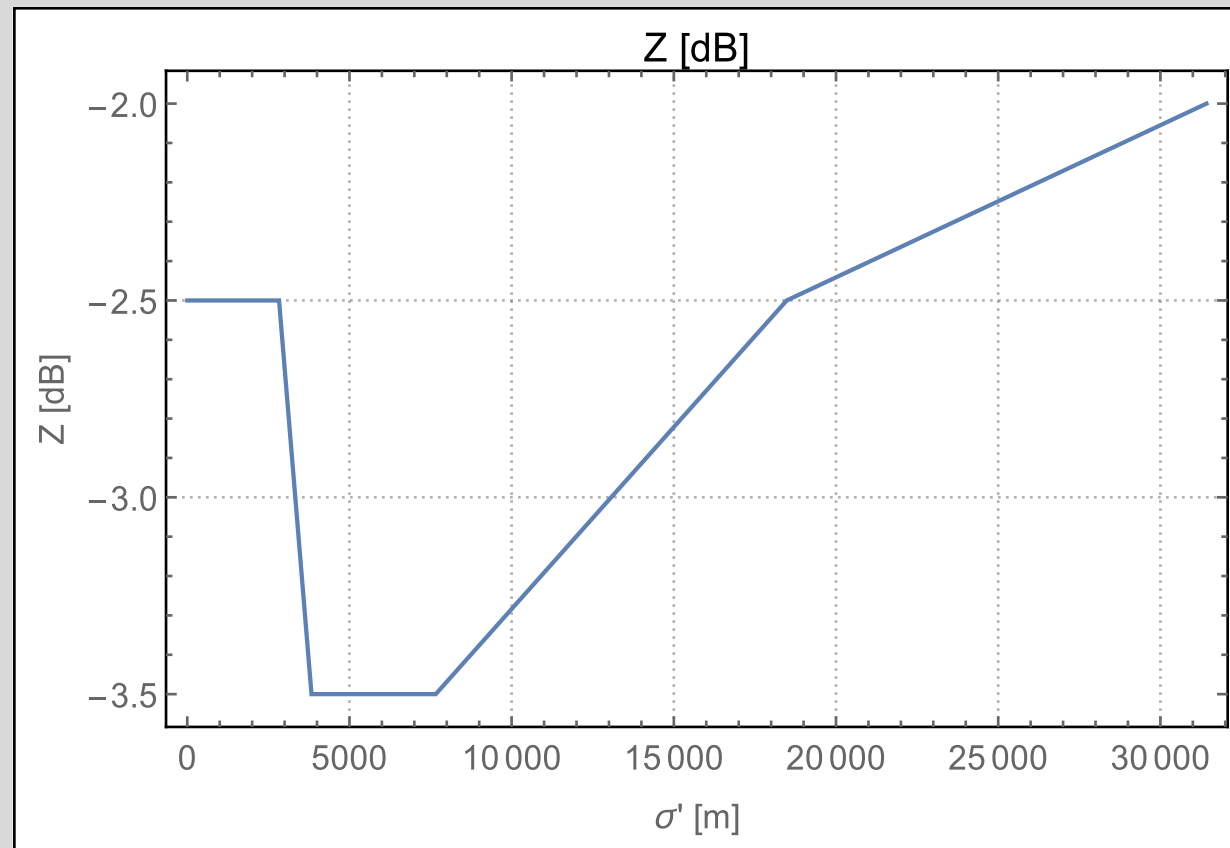
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.9 knots	16356 lbf	7660 m	2411 ft	7.78°	3125 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	245.4 knots	17386 lbf	18482 m	7260 ft	7.78°	3363 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	17.5 knots	1030 lbf	10822 m	4849 ft	0.°	238 ft/min	1. dB <sub>A</sub>

Segment 6 Accelerate to 300 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	245.4 knots	17386 lbf	18482 m	7260 ft	3.75°	1625 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	349.2 knots	17691 lbf	31422 m	10043 ft	3.75°	2313 ft/min	-2. dB <sub>A</sub>
Gain	80. knots	103.8 knots	305 lbf	12940 m	2783 ft	0.°	688 ft/min	0.5 dB <sub>A</sub>

Segment 7 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	349.2 knots	17691 lbf	31422 m	10043 ft	5.75°	3544 ft/min	-2. dB <sub>A</sub>
End	300. knots	380.1 knots	19062 lbf	47425 m	15328 ft	5.75°	3857 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	30.9 knots	1371 lbf	16003 m	5285 ft	0.°	313 ft/min	1. dB <sub>A</sub>



# NADP2-15

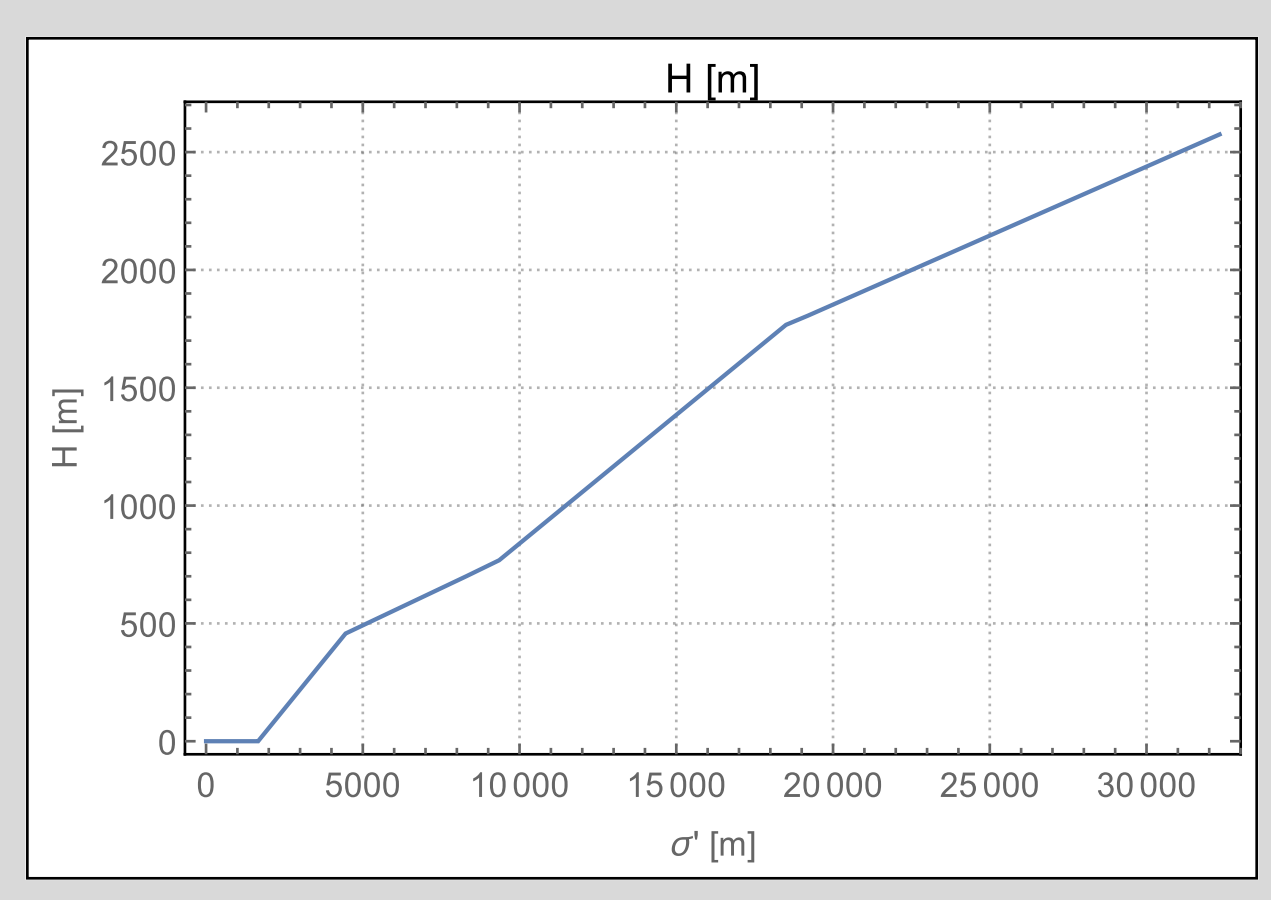
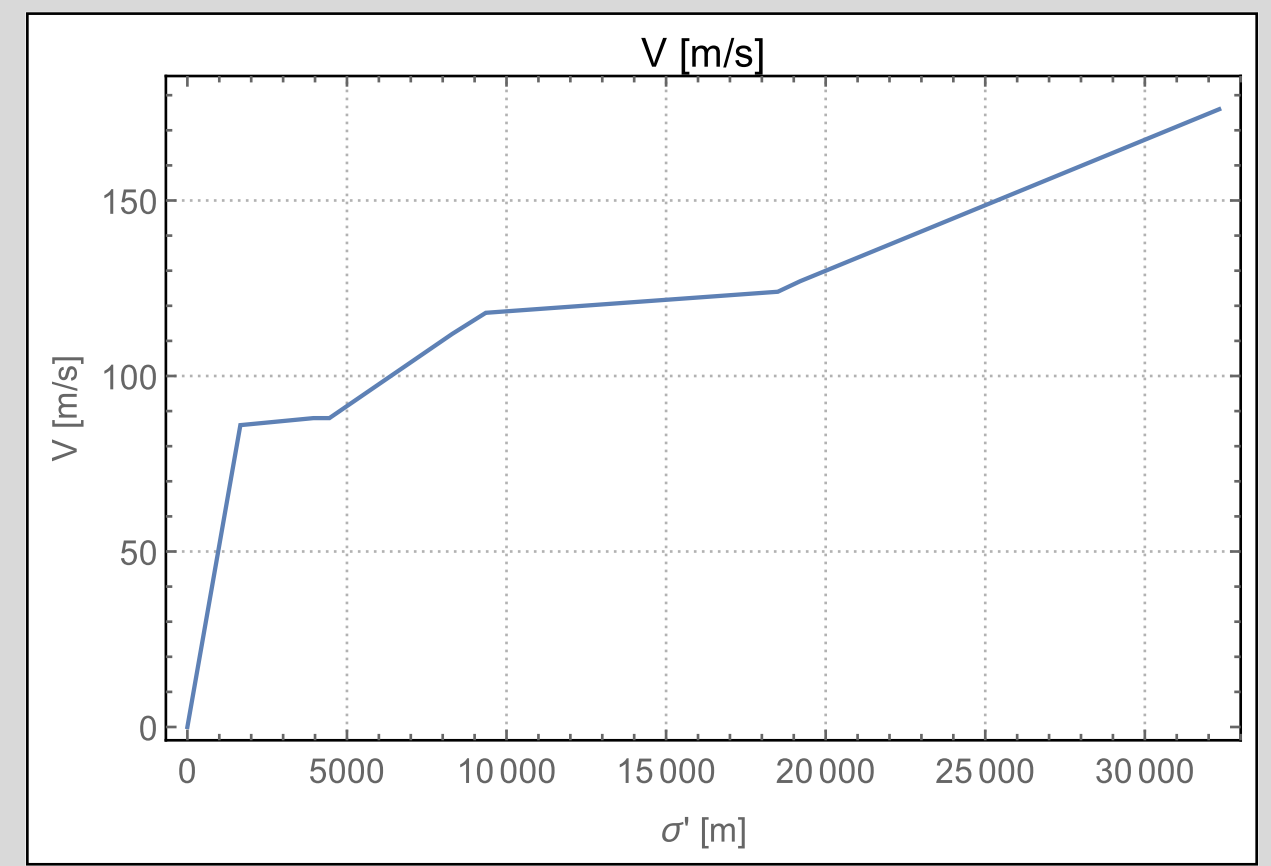
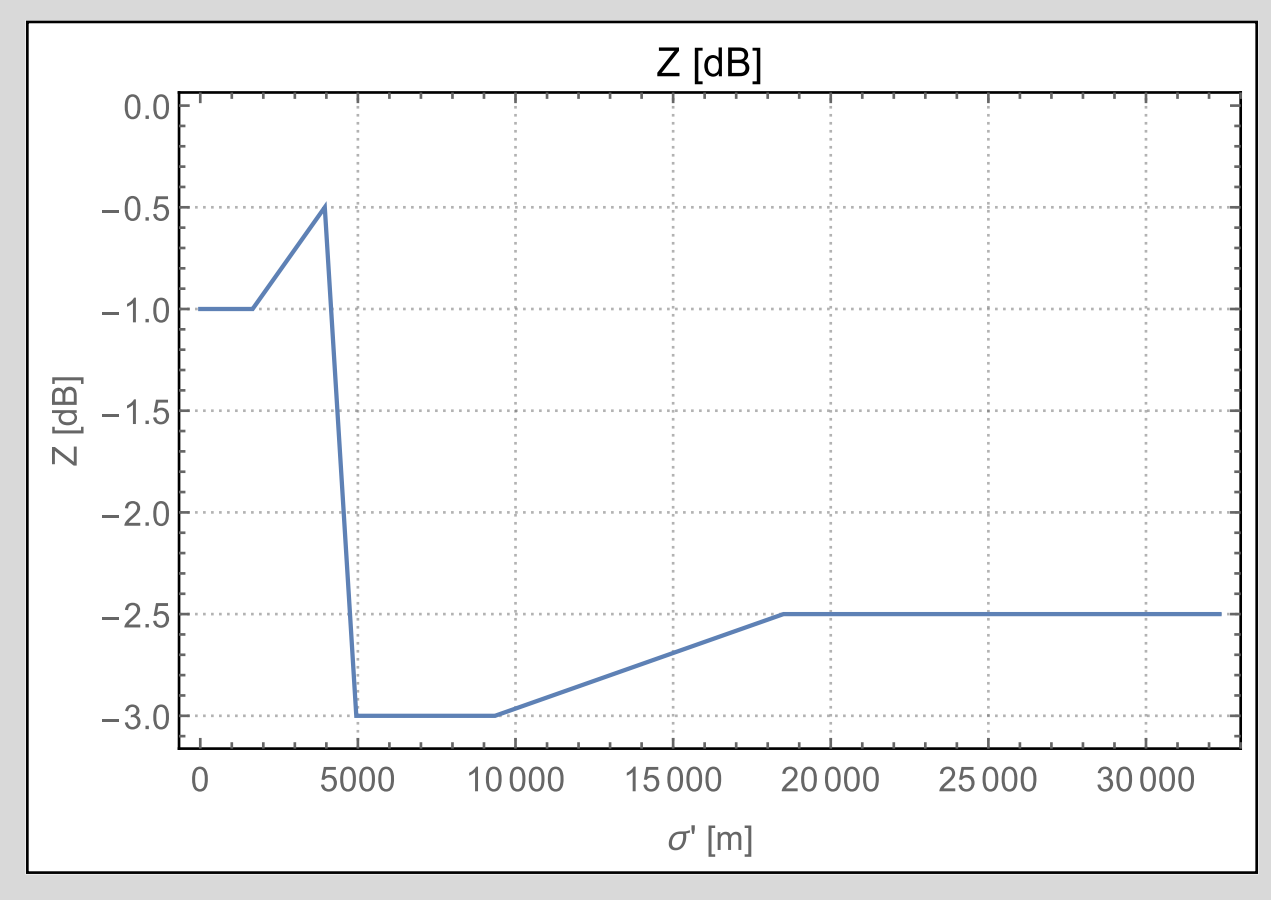
A320-211 95% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
1660	-1	86	0
3950	-0,5	88	-
4450	-	88	457
4950	-3	-	-
8300	-3	112	700
9350	-3	118	768
18500	-2,5	124	1767
19200	-2,5	127	1806
32330	-2,5	176	2575
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 32330	0	0	0,088

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	1+F	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	1+F	MaxClimb	210.	0.
4	Accelerate to 220 kt	ACC	0	1.	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	1.	MaxClimb	18520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	1.	MaxClimb	225.	0.
7	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	22562 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	167. knots	167.8 knots	18923 lbf	1656 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	167. knots	167.8 knots	-3639 lbf	1656 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	167.8 knots	18923 lbf	1656 m	328 ft	9.28°	2740 ft/min	-1. dB <sub>A</sub>
End	167. knots	171.5 knots	19328 lbf	4454 m	1828 ft	9.28°	2801 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	3.7 knots	405 lbf	2798 m	1500 ft	0.°	61 ft/min	0.5 dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	171.5 knots	16473 lbf	4454 m	1828 ft	3.61°	1094 ft/min	-3. dB <sub>A</sub>
End	210. knots	218.2 knots	16442 lbf	8302 m	2625 ft	3.61°	1392 ft/min	-3. dB <sub>A</sub>
Gain	43. knots	46.7 knots	-31 lbf	3848 m	797 ft	0.°	298 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	210. knots	218.2 knots	16442 lbf	8302 m	2625 ft	3.68°	1419 ft/min	-3. dB <sub>A</sub>
End	220. knots	229.4 knots	16443 lbf	9354 m	2847 ft	3.68°	1491 ft/min	-3. dB <sub>A</sub>
Gain	10. knots	11.2 knots	1 lbf	1052 m	222 ft	0.°	72 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	229.4 knots	16443 lbf	9354 m	2847 ft	6.23°	2521 ft/min	-3. dB <sub>A</sub>
End	220. knots	241. knots	17132 lbf	18502 m	6125 ft	6.23°	2649 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	11.6 knots	689 lbf	9148 m	3278 ft	0.°	128 ft/min	0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	241. knots	17132 lbf	18502 m	6125 ft	3.21°	1367 ft/min	-2.5 dB <sub>A</sub>
End	225. knots	247. knots	17139 lbf	19204 m	6254 ft	3.21°	1401 ft/min	-2.5 dB <sub>A</sub>
Gain	5. knots	6. knots	7 lbf	702 m	129 ft	0.°	34 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	225. knots	247. knots	17139 lbf	19204 m	6254 ft	3.35°	1462 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	342.3 knots	17387 lbf	32326 m	8775 ft	3.35°	2026 ft/min	-2.5 dB <sub>A</sub>
Gain	75. knots	95.3 knots	248 lbf	13122 m	2521 ft	0.°	564 ft/min	0. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	342.3 knots	17387 lbf	32326 m	8775 ft	5.04°	3046 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	380.1 knots	19062 lbf	54970 m	15328 ft	5.04°	3382 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	37.8 knots	1675 lbf	22644 m	6553 ft	0.°	336 ft/min	1.5 dB <sub>A</sub>

# NADP2-15

A320-211 85% MTOM

Fixpunktprofil nach AzB

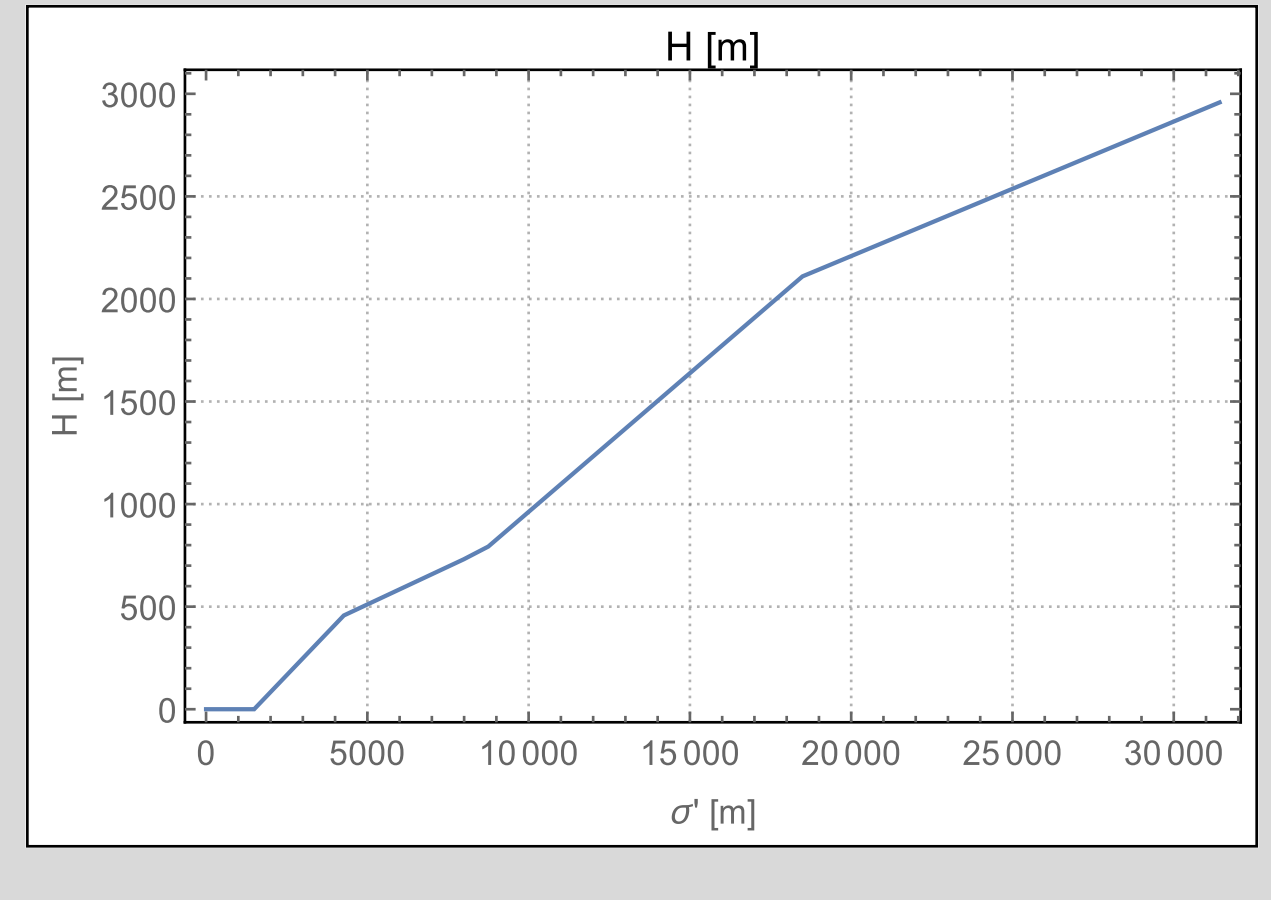
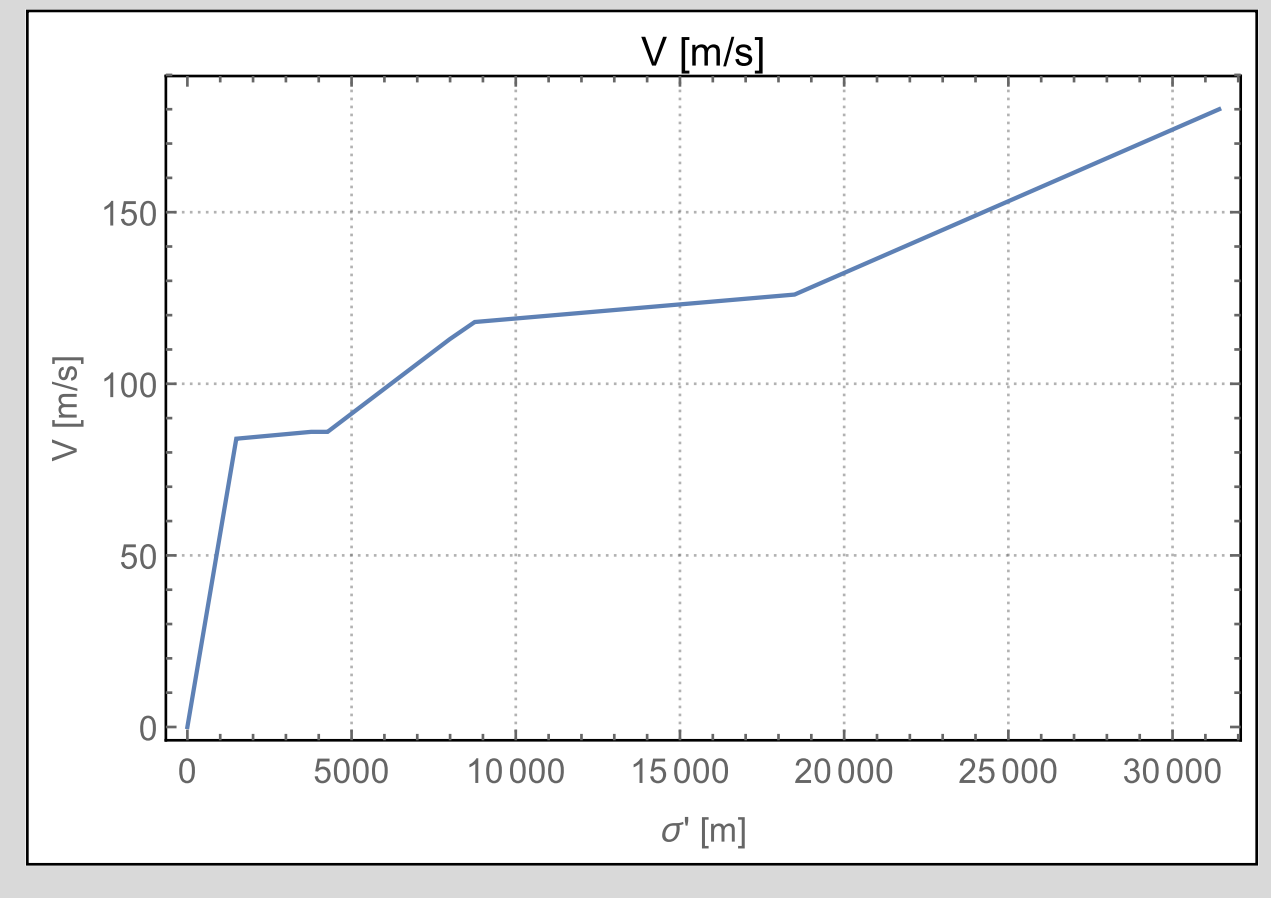
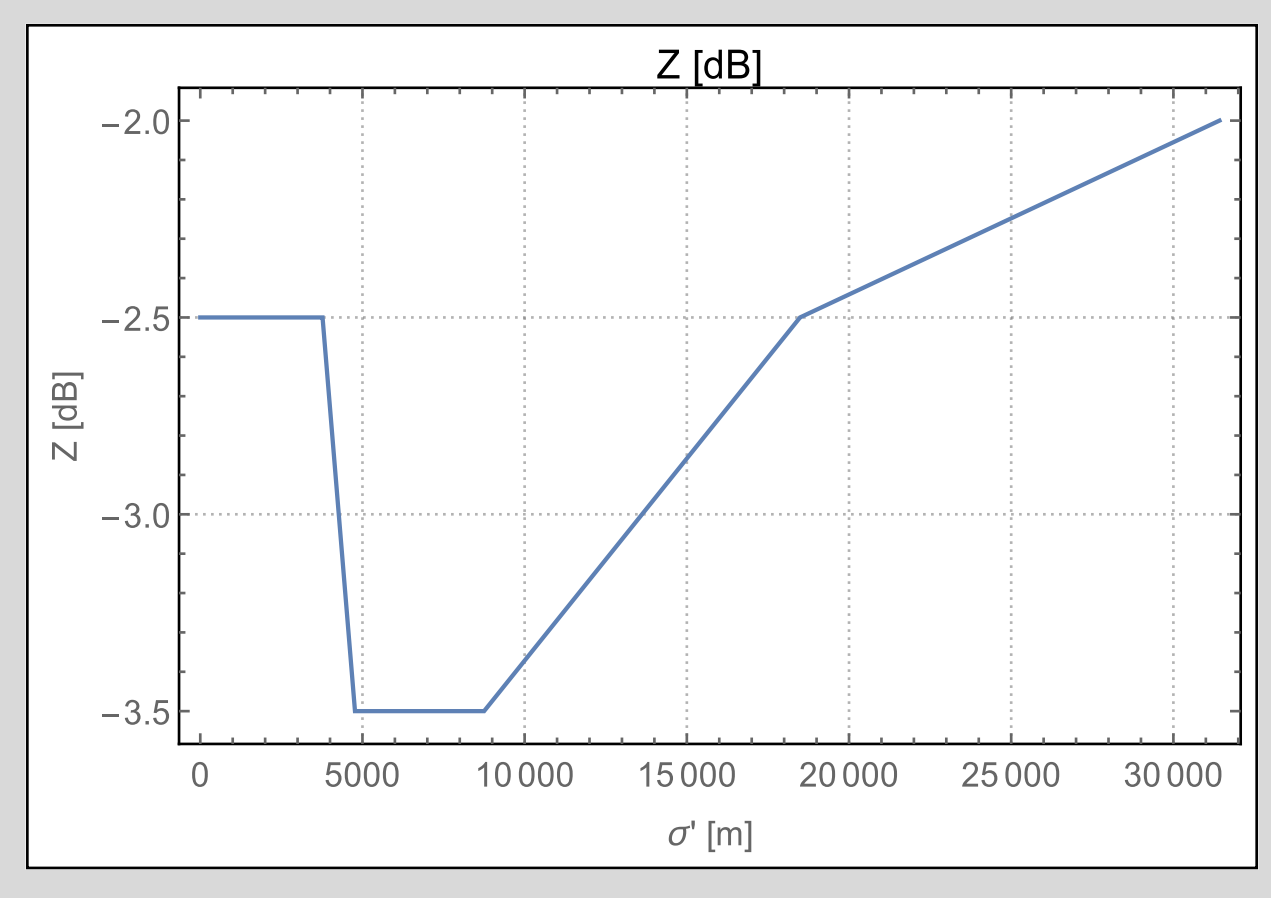
$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-2,5	0	0
1490	-2,5	84	0
3770	-2,5	86	-
4270	-	86	457
4770	-3,5	-	-
7990	-3,5	113	731
8750	-3,5	118	793
18490	-2,5	126	2110
31420	-2	180	2958

$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 31420	0	0	0,101

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	1+F	MaxTakeoff	1500.	0.
3	Accelerate to Flaps UP Speed	ACC	1.	1+F	MaxClimb	211.	0.
4	Accelerate to 220 kt	ACC	0	ZERO	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	ZERO	MaxClimb	18520.	0.
6	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
7	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	20357 lbf	0 m	328 ft	0.°	0 ft/min	-2.5 dB <sub>A</sub>
End	162. knots	162.7 knots	17172 lbf	1490 m	328 ft	0.°	0 ft/min	-2.5 dB <sub>A</sub>
Gain	162. knots	162.7 knots	-3185 lbf	1490 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	17172 lbf	1490 m	328 ft	9.34°	2675 ft/min	-2.5 dB <sub>A</sub>
End	162. knots	166.4 knots	17537 lbf	4269 m	1828 ft	9.34°	2735 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	3.7 knots	365 lbf	2779 m	1500 ft	0.°	60 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps UP Speed 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	166.4 knots	16495 lbf	4269 m	1828 ft	4.22°	1240 ft/min	-3. dB <sub>A</sub>
End	211. knots	219.6 knots	16458 lbf	7987 m	2728 ft	4.22°	1637 ft/min	-3.5 dB <sub>A</sub>
Gain	49. knots	53.2 knots	-37 lbf	3718 m	900 ft	0.°	397 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	211. knots	219.6 knots	16458 lbf	7987 m	2728 ft	4.57°	1772 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	229.7 knots	16459 lbf	8753 m	2929 ft	4.57°	1853 ft/min	-3.5 dB <sub>A</sub>
Gain	9. knots	10.1 knots	1 lbf	766 m	201 ft	0.°	81 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	229.7 knots	16459 lbf	8753 m	2929 ft	7.71°	3121 ft/min	-3.5 dB <sub>A</sub>
End	220. knots	245.2 knots	17384 lbf	18487 m	7250 ft	7.71°	3332 ft/min	-2.5 dB <sub>A</sub>
Gain	0. knots	15.5 knots	925 lbf	9734 m	4321 ft	0.°	211 ft/min	1. dB <sub>A</sub>

Segment 6 Accelerate to 300 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	245.2 knots	17384 lbf	18487 m	7250 ft	3.75°	1624 ft/min	-2.5 dB <sub>A</sub>
End	300. knots	349.2 knots	17688 lbf	31417 m	10032 ft	3.75°	2313 ft/min	-2. dB <sub>A</sub>
Gain	80. knots	104. knots	304 lbf	12930 m	2782 ft	0.°	689 ft/min	0.5 dB <sub>A</sub>

Segment 7 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	349.2 knots	17688 lbf	31417 m	10032 ft	5.75°	3543 ft/min	-2. dB <sub>A</sub>
End	300. knots	380.1 knots	19062 lbf	47454 m	15328 ft	5.75°	3857 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	30.9 knots	1374 lbf	16037 m	5296 ft	0.°	314 ft/min	1. dB <sub>A</sub>

# NADP1

A380-841 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3140	-1	96	0
7570	-0,5	98	-
8070	-	98	457
8570	-0,5	-	-
13230	-0,5	100	914
17130	-0,5	116	1084
18270	-0,5	120	1141
18520	-0,5	120	1163
22080	-1	133	1333
34880	-1	170	1910
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 34880	0	0	0,061

prozedurales Profil nach ECAC Doc 29

Nr	Name	Type	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	D_1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	D_1+F	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	D_1+F	MaxClimb	3000.	0.
4	Accelerate to Flaps 1 Speed	ACC	0	D_1+F	MaxClimb	212.	0.
5	Accelerate to 220 kt	ACC	0	D_1	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	D_1	MaxClimb	18520.	0.
7	Accelerate to Flaps UP Speed	ACC	0	D_1	MaxClimb	242.	0.
8	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	66 161 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	185. knots	185.8 knots	51 671 lbf	3135 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	185. knots	185.8 knots	-14 490 lbf	3135 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	185.8 knots	51 671 lbf	3135 m	328 ft	5.29°	1735 ft/min	-1. dB <sub>A</sub>
End	185. knots	190. knots	53 263 lbf	8069 m	1828 ft	5.29°	1774 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	4.2 knots	1592 lbf	4934 m	1500 ft	0.°	39 ft/min	0.5 dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	190. knots	53 263 lbf	8069 m	1828 ft	5.06°	1697 ft/min	-0.5 dB <sub>A</sub>
End	185. knots	194.4 knots	54 780 lbf	13 230 m	3328 ft	5.06°	1736 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	4.4 knots	1517 lbf	5161 m	1500 ft	0.°	39 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps 1 Speed 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	194.4 knots	54 780 lbf	13 230 m	3328 ft	2.5°	858 ft/min	-0.5 dB <sub>A</sub>
End	212. knots	224.6 knots	53 916 lbf	17 130 m	3886 ft	2.5°	992 ft/min	-0.5 dB <sub>A</sub>
Gain	27. knots	30.2 knots	-864 lbf	3900 m	558 ft	0.°	134 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to 220 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	224.6 knots	53 917 lbf	17 130 m	3886 ft	2.83°	1123 ft/min	-0.5 dB <sub>A</sub>
End	220. knots	233.7 knots	53 675 lbf	18 270 m	4071 ft	2.83°	1168 ft/min	-0.5 dB <sub>A</sub>
Gain	8. knots	9.1 knots	-242 lbf	1140 m	185 ft	0.°	45 ft/min	0. dB <sub>A</sub>

Segment 6 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	233.7 knots	53 675 lbf	18 270 m	4071 ft	5.07°	2091 ft/min	-0.5 dB <sub>A</sub>
End	220. knots	234. knots	53 742 lbf	18 520 m	4144 ft	5.07°	2093 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	0.3 knots	67 lbf	250 m	73 ft	0.°	2 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to Flaps UP Speed 50% Climb/50% Acceleration

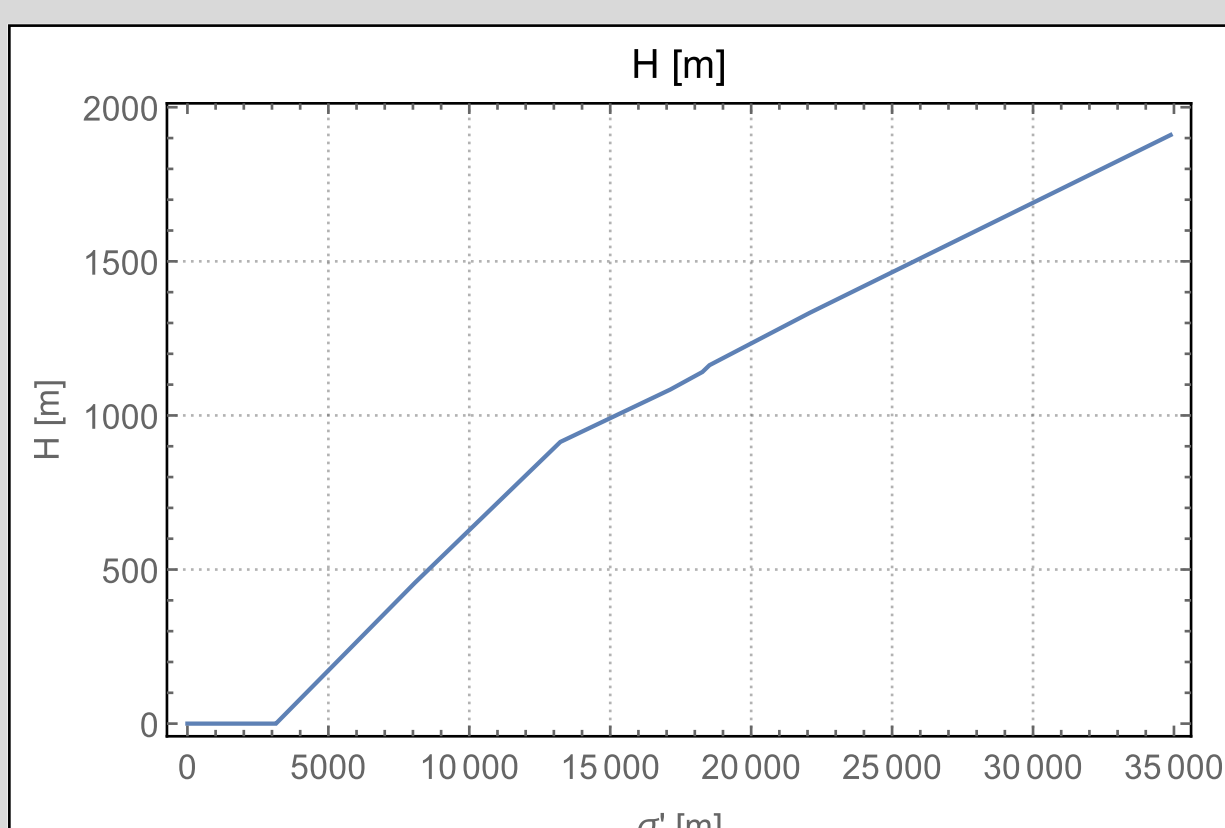
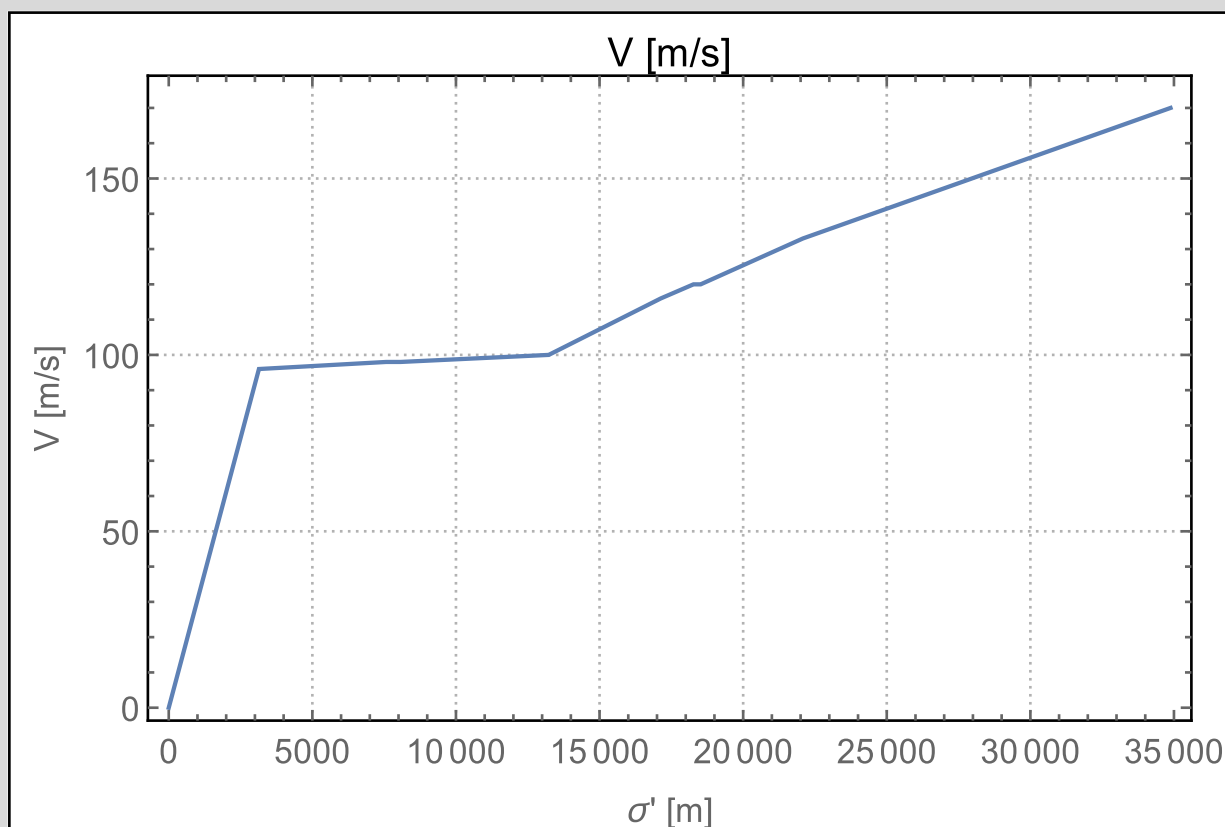
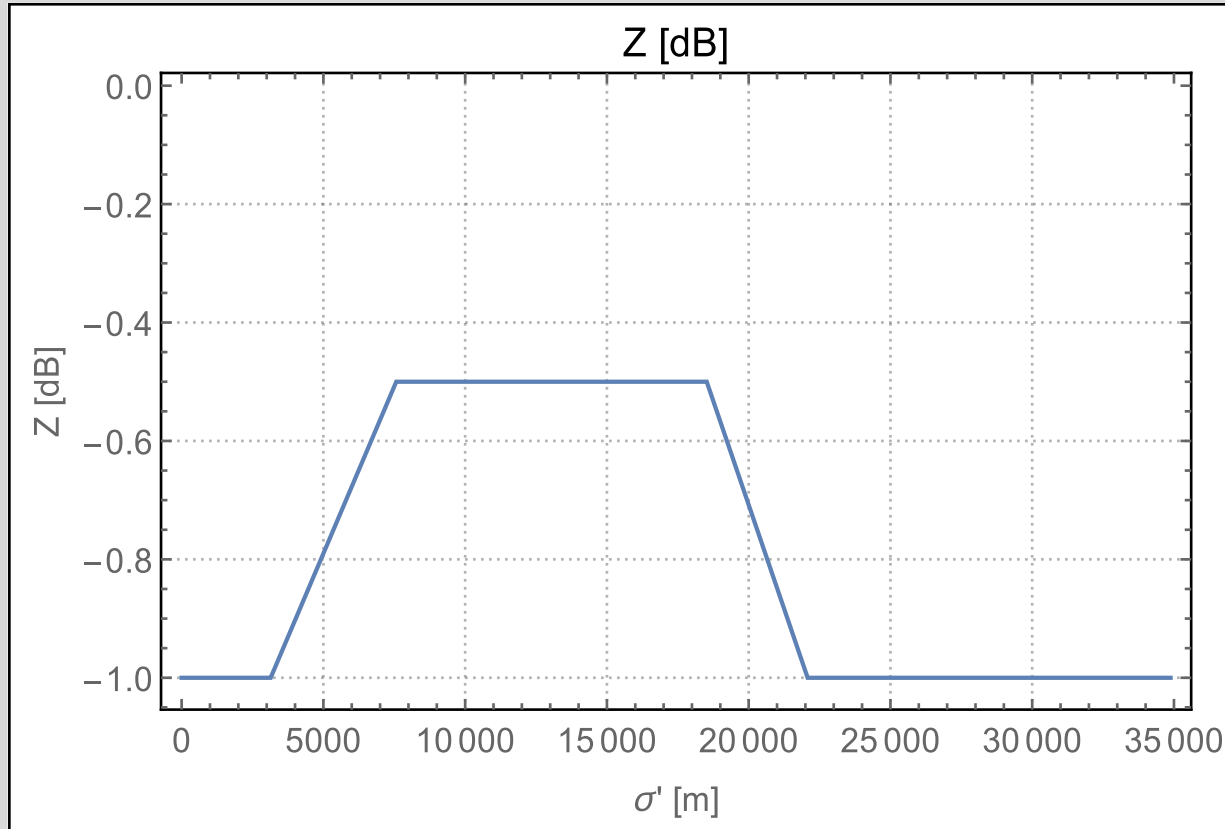
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234. knots	53 742 lbf	18 520 m	4144 ft	2.74°	1132 ft/min	-0.5 dB <sub>A</sub>
End	242. knots	259.5 knots	53 108 lbf	22 080 m	4703 ft	2.74°	1256 ft/min	-1. dB <sub>A</sub>
Gain	22. knots	25.5 knots	-634 lbf	3560 m	559 ft	0.°	124 ft/min	-0.5 dB <sub>A</sub>

Segment 8 Accelerate to 300 kt 50% Climb/50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	259.5 knots	53 108 lbf	22 080 m	4703 ft	2.58°	1183 ft/min	-1. dB <sub>A</sub>
End	300. knots	331.1 knots	51 661 lbf	34 884 m	6593 ft	2.58°	1509 ft/min	-1. dB <sub>A</sub>
Gain	58. knots	71.6 knots	-1447 lbf	12 804 m	1890 ft	0.°	326 ft/min	0. dB <sub>A</sub>

Segment 9 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	331.1 knots	51 661 lbf	34 884 m	6593 ft	3.51°	2053 ft/min	-1. dB <sub>A</sub>
End	300. knots	380.1 knots	55 822 lbf	78 241 m	15 328 ft	3.51°	2357 ft/min	0. dB <sub>A</sub>
Gain	0. knots	49. knots	4161 lbf	43 357 m	8735 ft	0.°	304 ft/min	1. dB <sub>A</sub>



# NADP1

A380-841 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-4,5	0	0
2370	-4,5	87	0
6810	-4,5	89	-
7310	-	89	457
7810	-4,5	-	-
12480	-4,5	91	914
18170	-4,5	114	1157
19740	-4,5	121	1235
36580	-4,5	171	1987
$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 36580	0	0	0,059

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	D_1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	D_1+F	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	D_1+F	MaxClimb	3000.	0.
4	Accelerate to Flaps UP Speed	ACC	0	D_1+F	MaxClimb	209.	0.
5	Accelerate to 220 kt	ACC	0	ZERO	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	ZERO	MaxClimb	18520.	0.
7	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	48480 lbf	0 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
End	168. knots	168.8 knots	38838 lbf	2367 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
Gain	168. knots	168.8 knots	-9642 lbf	2367 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	168.8 knots	38838 lbf	2367 m	328 ft	5.29°	1576 ft/min	-4.5 dB <sub>A</sub>
End	168. knots	172.5 knots	40005 lbf	7308 m	1828 ft	5.29°	1611 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	3.7 knots	1167 lbf	4941 m	1500 ft	0.°	35 ft/min	0. dB <sub>A</sub>

Segment 3 Climb to 3000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	172.5 knots	40005 lbf	7308 m	1828 ft	5.05°	1538 ft/min	-4.5 dB <sub>A</sub>
End	168. knots	176.5 knots	41126 lbf	12482 m	3328 ft	5.05°	1573 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	4. knots	1121 lbf	5174 m	1500 ft	0.°	35 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	176.5 knots	41126 lbf	12482 m	3328 ft	2.45°	764 ft/min	-4.5 dB <sub>A</sub>
End	209. knots	222.2 knots	40118 lbf	18167 m	4125 ft	2.45°	962 ft/min	-4.5 dB <sub>A</sub>
Gain	41. knots	45.7 knots	-1008 lbf	5685 m	797 ft	0.°	198 ft/min	0. dB <sub>A</sub>

Segment 5 Accelerate to 220 kt 50% Climb/ 50% Acceleration

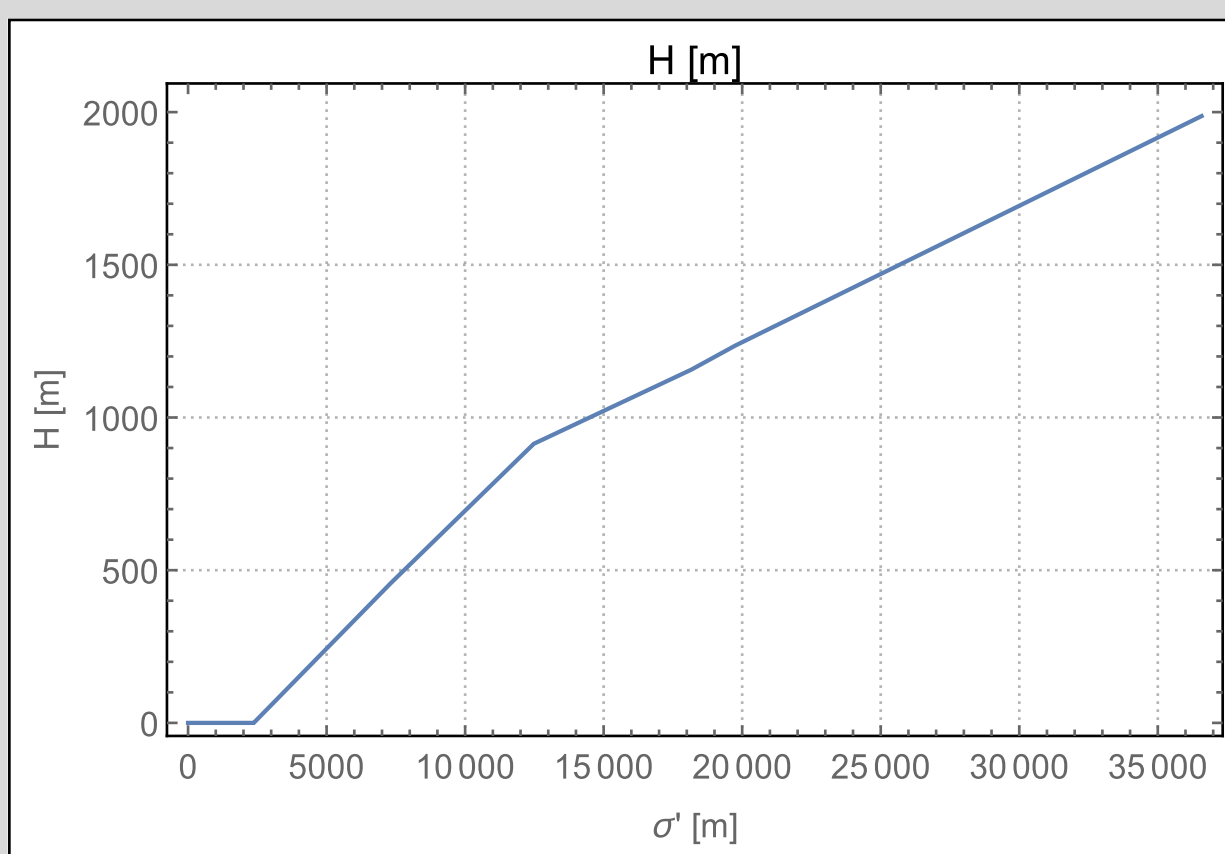
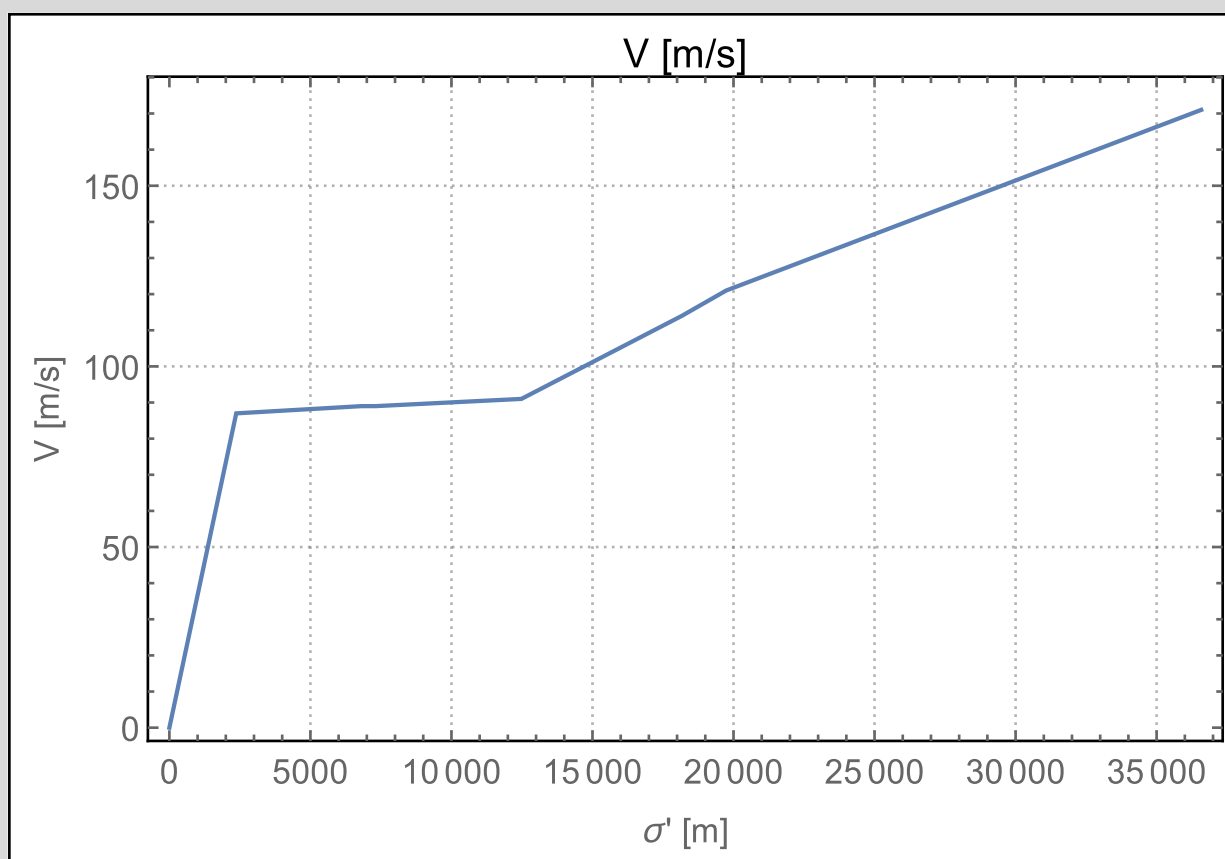
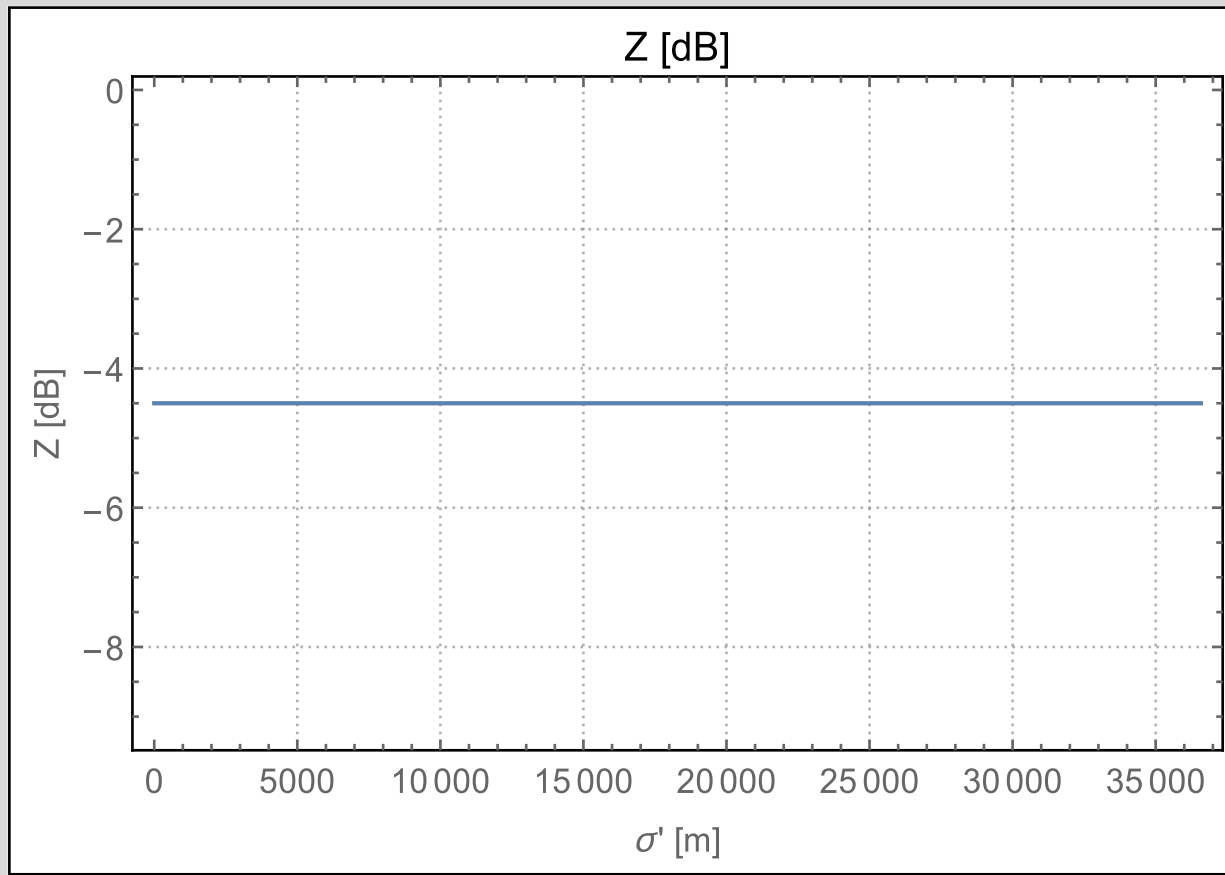
	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	222.2 knots	40118 lbf	18167 m	4125 ft	2.83°	1111 ft/min	-4.5 dB <sub>A</sub>
End	220. knots	234.8 knots	39869 lbf	19738 m	4380 ft	2.83°	1174 ft/min	-4.5 dB <sub>A</sub>
Gain	11. knots	12.6 knots	-249 lbf	1571 m	255 ft	0.°	63 ft/min	0. dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.8 knots	39869 lbf	19738 m	4380 ft	2.56°	1062 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	332.3 knots	38313 lbf	36577 m	6846 ft	2.56°	1503 ft/min	-4.5 dB <sub>A</sub>
Gain	80. knots	97.5 knots	-1556 lbf	16839 m	2466 ft	0.°	441 ft/min	0. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	332.3 knots	38313 lbf	36577 m	6846 ft	3.4°	1996 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	380.1 knots	41249 lbf	80145 m	15328 ft	3.4°	2283 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	47.8 knots	2936 lbf	43568 m	8482 ft	0.°	287 ft/min	0. dB <sub>A</sub>





# NADP2-10

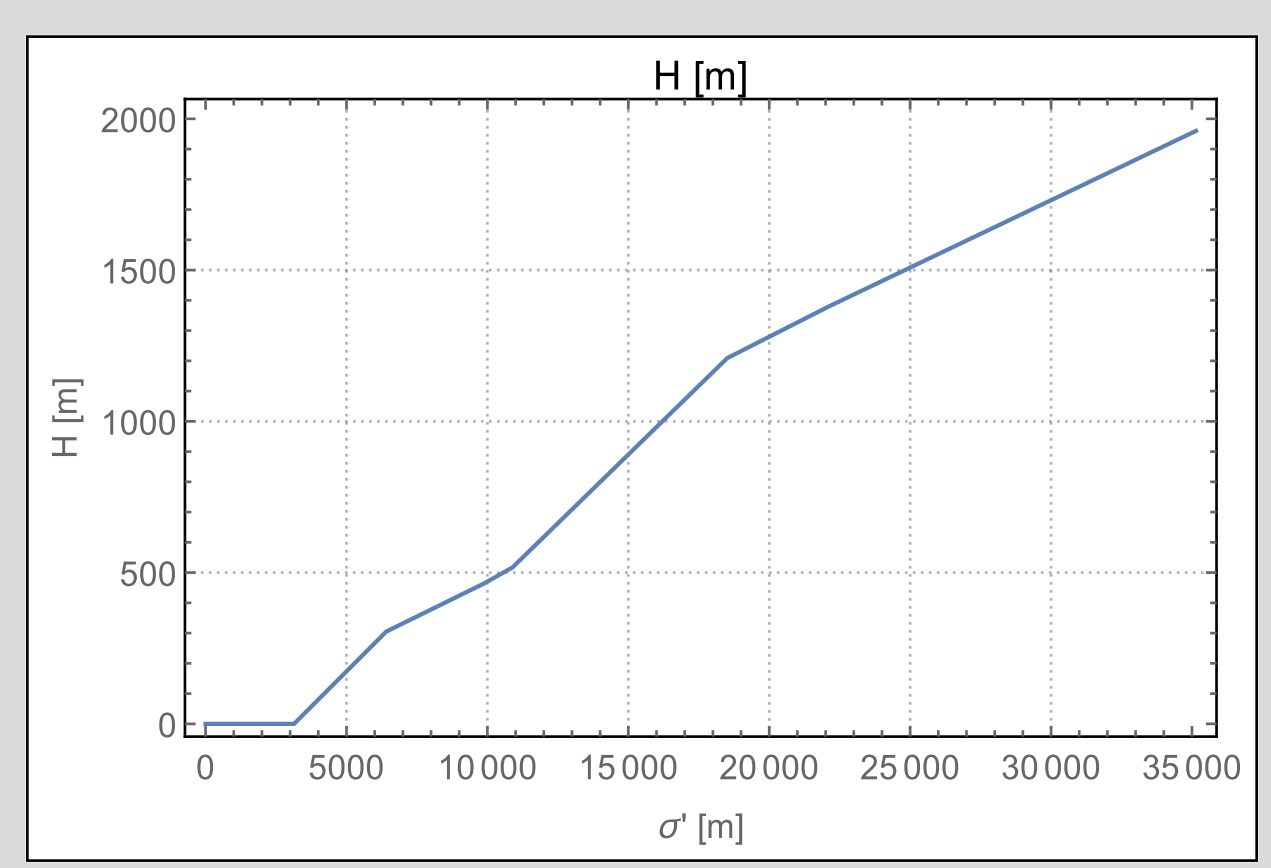
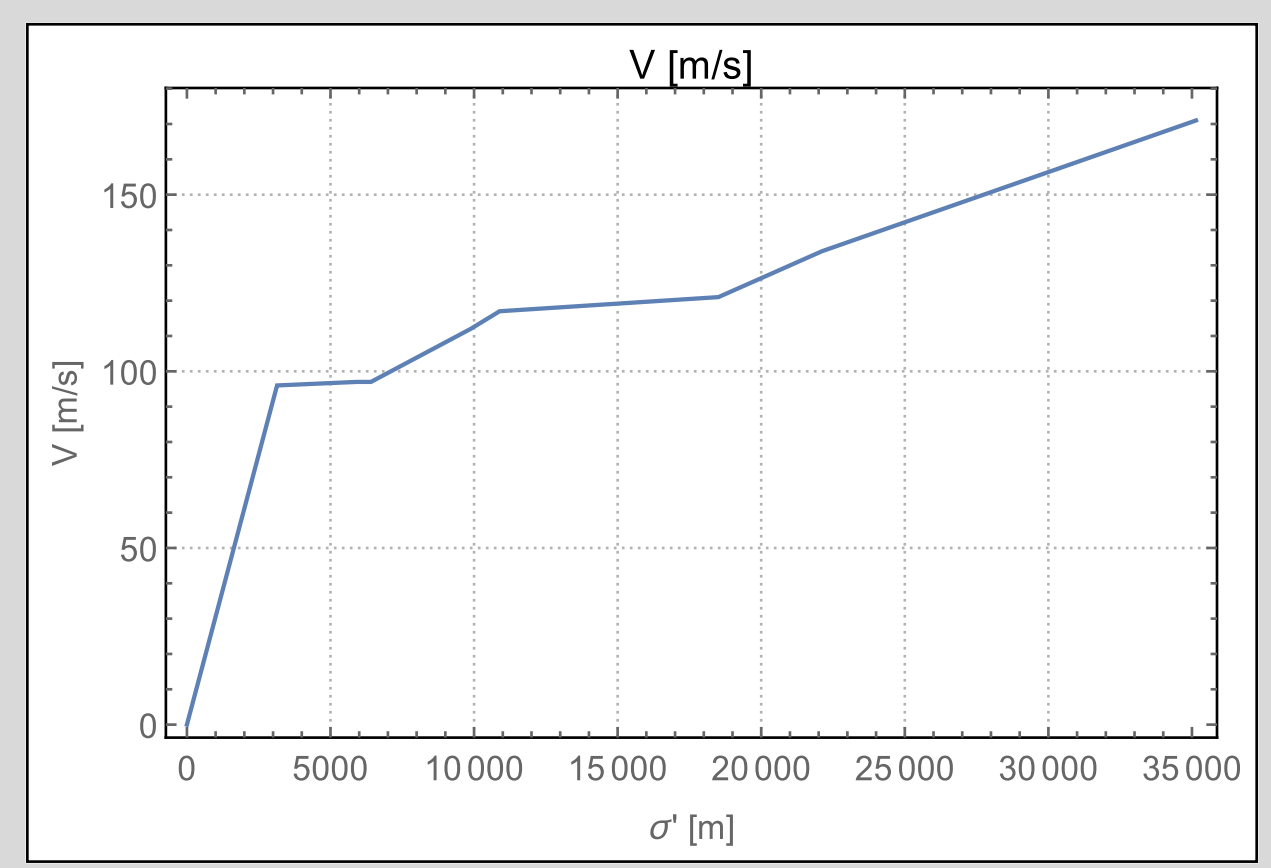
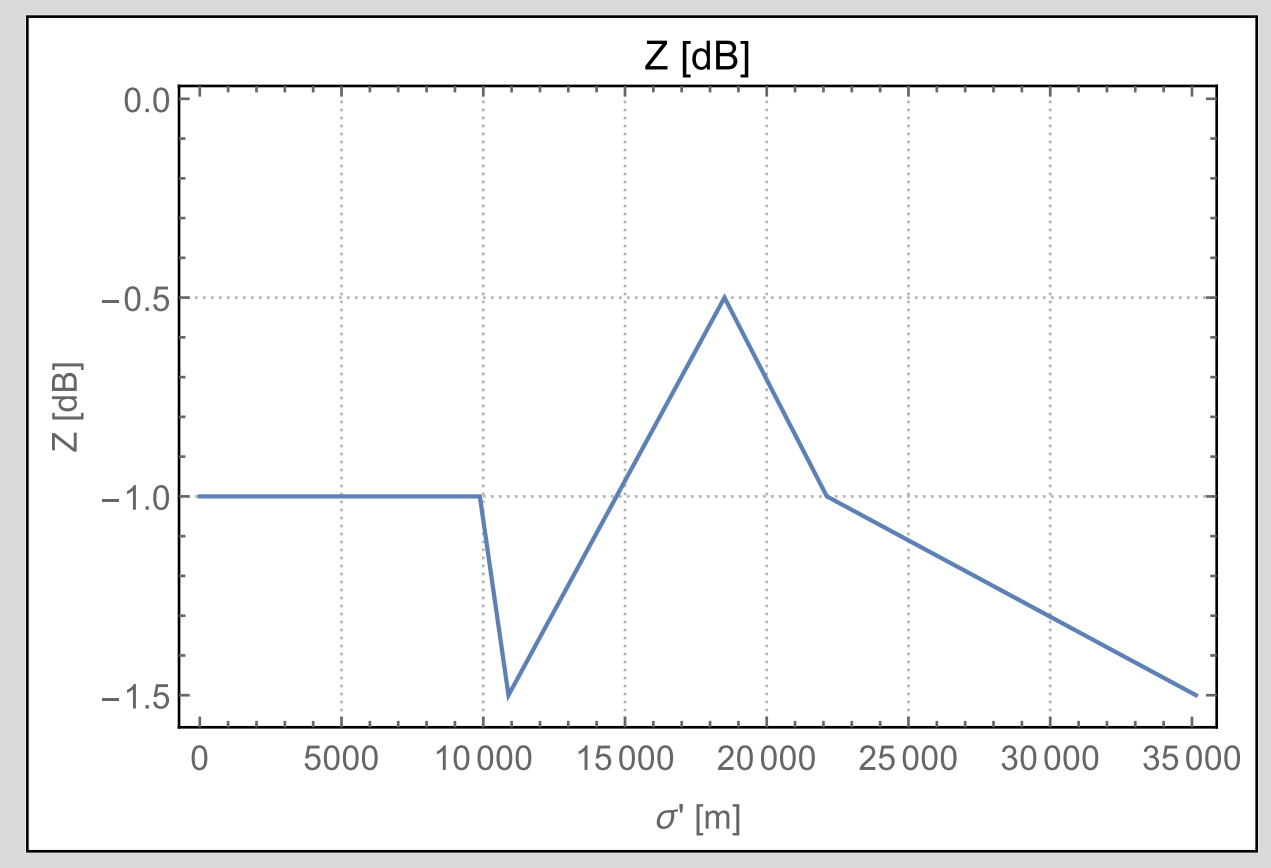
A380-841 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3140	-1	96	0
5910	-1	97	-
6410	-	97	305
6910	-1	-	-
9880	-1	112	464
10890	-1.5	117	517
18510	-0.5	121	1209
22120	-1	134	1380
35140	-1.5	171	1960
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 35140	0	0	0,061

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	D_1+F	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	D_1+F	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	D_1+F	MaxClimb	212.	0.
4	Accelerate to 220 kt	ACC	0	D_1	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	D_1	MaxClimb	18520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	D_1	MaxClimb	242.	0.
7	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	66 161 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	185. knots	185.8 knots	51 671 lbf	3135 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	185. knots	185.8 knots	-14 490 lbf	3135 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	185.8 knots	51 671 lbf	3135 m	328 ft	5.31°	1742 ft/min	-1. dB <sub>A</sub>
End	185. knots	188.6 knots	52 534 lbf	6414 m	1328 ft	5.31°	1768 ft/min	-1. dB <sub>A</sub>
Gain	0. knots	2.8 knots	863 lbf	3279 m	1000 ft	0.°	26 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	188.6 knots	52 534 lbf	6414 m	1328 ft	2.64°	880 ft/min	-1. dB <sub>A</sub>
End	212. knots	217.9 knots	51 708 lbf	9876 m	1852 ft	2.64°	1016 ft/min	-1. dB <sub>A</sub>
Gain	27. knots	29.3 knots	-826 lbf	3462 m	524 ft	0.°	136 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	217.9 knots	51 709 lbf	9876 m	1852 ft	2.97°	1143 ft/min	-1. dB <sub>A</sub>
End	220. knots	226.7 knots	51 480 lbf	10891 m	2025 ft	2.97°	1189 ft/min	-1.5 dB <sub>A</sub>
Gain	8. knots	8.8 knots	-229 lbf	1015 m	173 ft	0.°	46 ft/min	-0.5 dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	226.7 knots	51 480 lbf	10891 m	2025 ft	5.19°	2076 ft/min	-1.5 dB <sub>A</sub>
End	220. knots	234.5 knots	53 682 lbf	18507 m	4294 ft	5.19°	2148 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	7.8 knots	2202 lbf	7616 m	2269 ft	0.°	72 ft/min	1. dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.5 knots	53 682 lbf	18507 m	4294 ft	2.71°	1123 ft/min	-0.5 dB <sub>A</sub>
End	242. knots	260.2 knots	53 048 lbf	22 124 m	4856 ft	2.71°	1245 ft/min	-1. dB <sub>A</sub>
Gain	22. knots	25.7 knots	-634 lbf	3617 m	562 ft	0.°	122 ft/min	-0.5 dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	260.2 knots	53 048 lbf	22 124 m	4856 ft	2.55°	1172 ft/min	-1. dB <sub>A</sub>
End	300. knots	331.9 knots	51 596 lbf	35 145 m	6757 ft	2.55°	1496 ft/min	-1.5 dB <sub>A</sub>
Gain	58. knots	71.7 knots	-1452 lbf	13 021 m	1901 ft	0.°	324 ft/min	-0.5 dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	331.9 knots	51 596 lbf	35 145 m	6757 ft	3.48°	2040 ft/min	-1.5 dB <sub>A</sub>
End	300. knots	380.1 knots	55 620 lbf	78 167 m	15 328 ft	3.48°	2337 ft/min	0. dB <sub>A</sub>
Gain	0. knots	48.2 knots	4024 lbf	43 022 m	8571 ft	0.°	297 ft/min	1.5 dB <sub>A</sub>

# NADP2-10

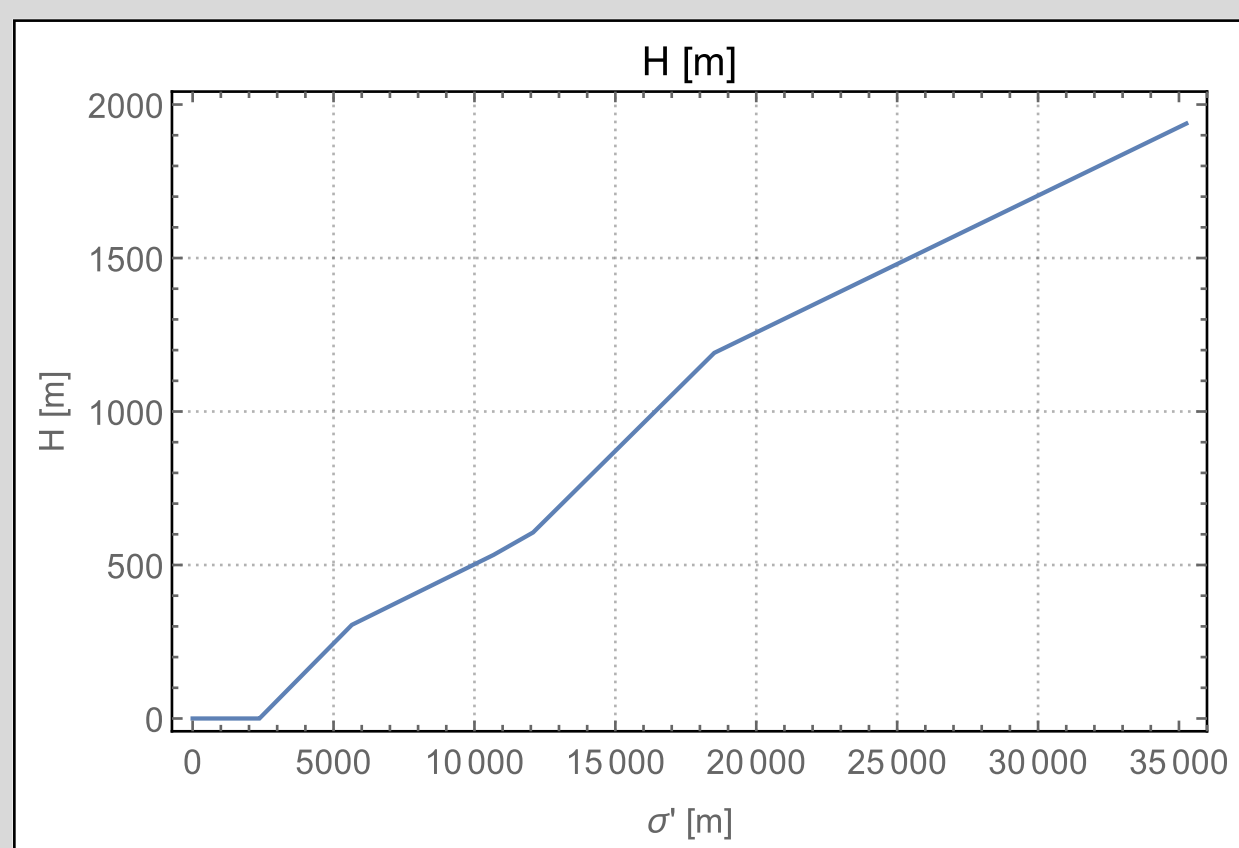
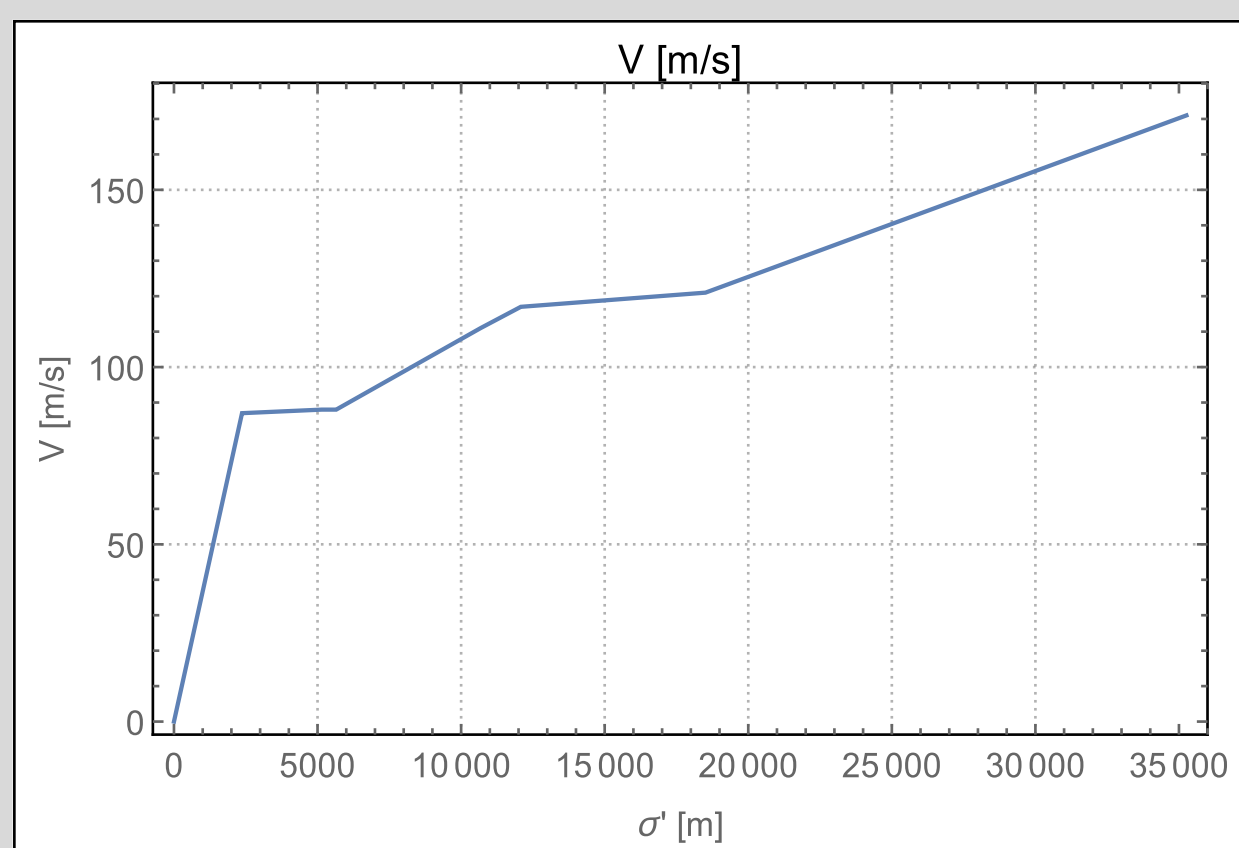
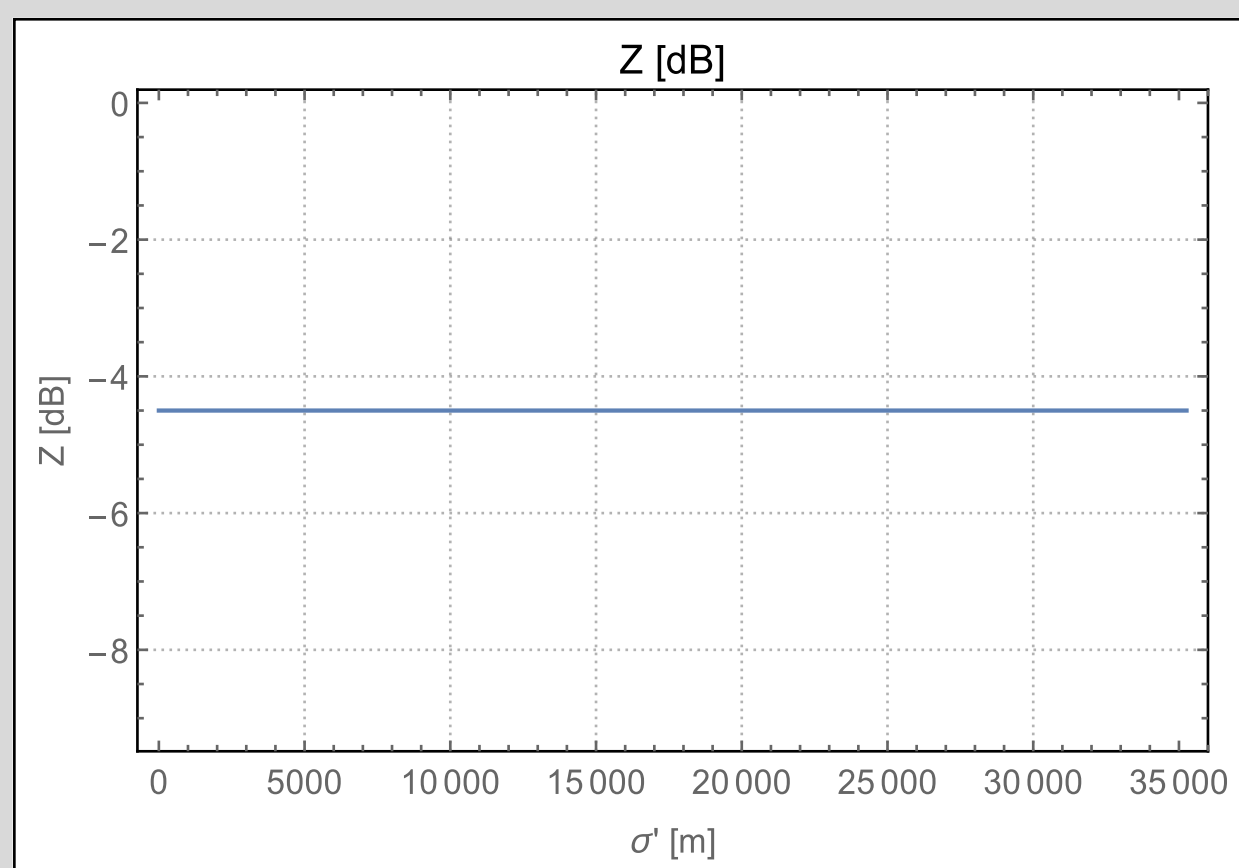
A380-841 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-4,5	0	0
2370	-4,5	87	0
5150	-4,5	88	-
5650	-	88	305
6150	-4,5	-	-
10680	-4,5	111	533
12080	-4,5	117	606
18510	-4,5	121	1191
35260	-4,5	171	1938
$\sigma'$ [m]	dZ/d $\sigma'$ [dB/m]	dV/d $\sigma'$ [1/s]	dH/d $\sigma'$
> 35260	0	0	0,059

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	D_1+F	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	D_1+F	MaxTakeoff	1000.	0.
3	Accelerate to Flaps UP Speed	ACC	1.	D_1+F	MaxClimb	209.	0.
4	Accelerate to 220 kt	ACC	0	ZERO	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	ZERO	MaxClimb	18520.	0.
6	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
7	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	48480 lbf	0 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
End	168. knots	168.8 knots	38838 lbf	2367 m	328 ft	0.°	0 ft/min	-4.5 dB <sub>A</sub>
Gain	168. knots	168.8 knots	-9642 lbf	2367 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	168.8 knots	38838 lbf	2367 m	328 ft	5.3°	1579 ft/min	-4.5 dB <sub>A</sub>
End	168. knots	171.3 knots	39470 lbf	5650 m	1328 ft	5.3°	1602 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	2.5 knots	632 lbf	3283 m	1000 ft	0.°	23 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	171.3 knots	39470 lbf	5650 m	1328 ft	2.6°	787 ft/min	-4.5 dB <sub>A</sub>
End	209. knots	215.5 knots	38503 lbf	10685 m	2077 ft	2.6°	990 ft/min	-4.5 dB <sub>A</sub>
Gain	41. knots	44.2 knots	-967 lbf	5035 m	749 ft	0.°	203 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	215.5 knots	38503 lbf	10685 m	2077 ft	2.98°	1134 ft/min	-4.5 dB <sub>A</sub>
End	220. knots	227.6 knots	38267 lbf	12080 m	2315 ft	2.98°	1198 ft/min	-4.5 dB <sub>A</sub>
Gain	11. knots	12.1 knots	-236 lbf	1395 m	238 ft	0.°	64 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.6 knots	38267 lbf	12080 m	2315 ft	5.2°	2089 ft/min	-4.5 dB <sub>A</sub>
End	220. knots	234.3 knots	39634 lbf	18510 m	4234 ft	5.2°	2150 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	6.7 knots	1367 lbf	6430 m	1919 ft	0.°	61 ft/min	0. dB <sub>A</sub>

Segment 6 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.3 knots	39634 lbf	18510 m	4234 ft	2.55°	1055 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	331.5 knots	38092 lbf	35262 m	6686 ft	2.55°	1494 ft/min	-4.5 dB <sub>A</sub>
Gain	80. knots	97.2 knots	-1542 lbf	16752 m	2452 ft	0.°	439 ft/min	0. dB <sub>A</sub>

Segment 7 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	331.5 knots	38092 lbf	35262 m	6686 ft	3.39°	1986 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	380.1 knots	41105 lbf	79717 m	15328 ft	3.39°	2276 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	48.6 knots	3013 lbf	44455 m	8642 ft	0.°	290 ft/min	0. dB <sub>A</sub>

# NADP2-15

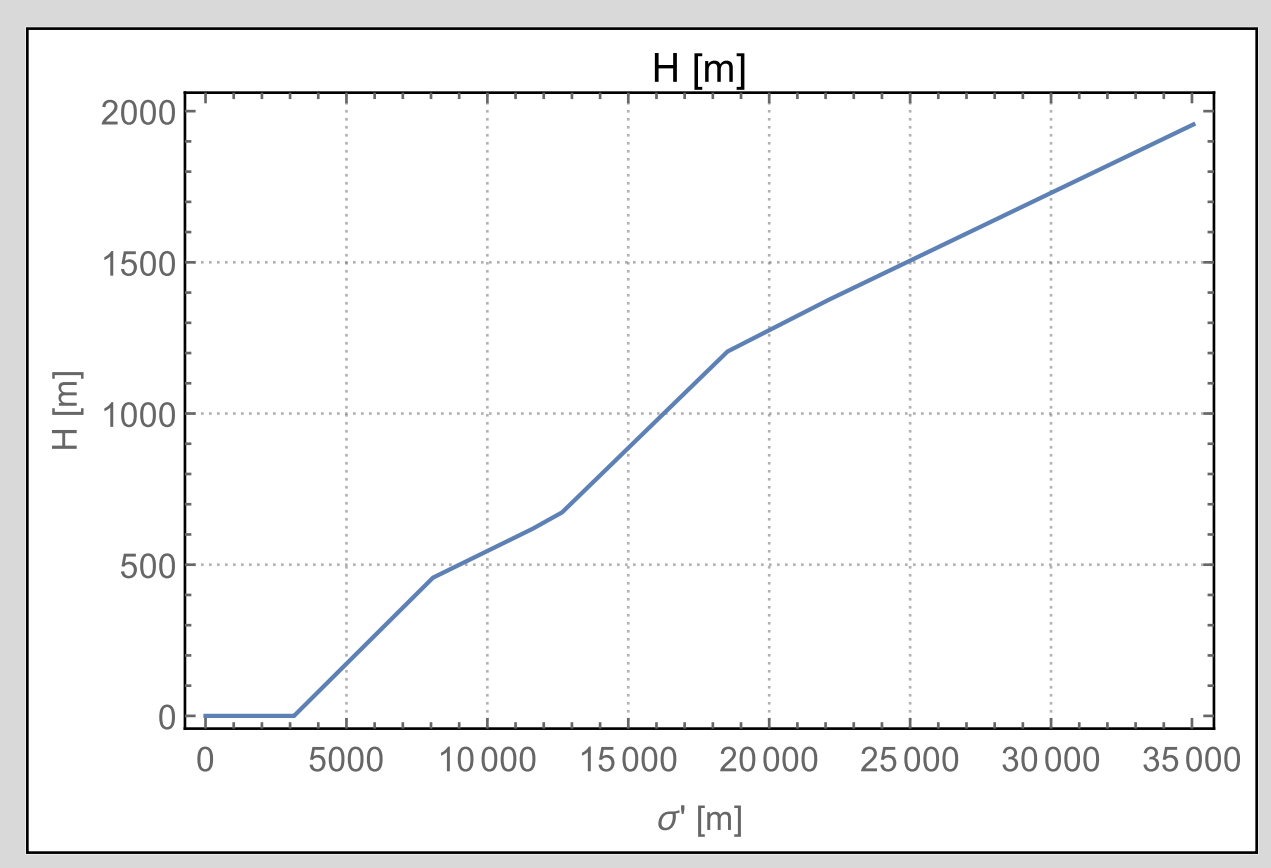
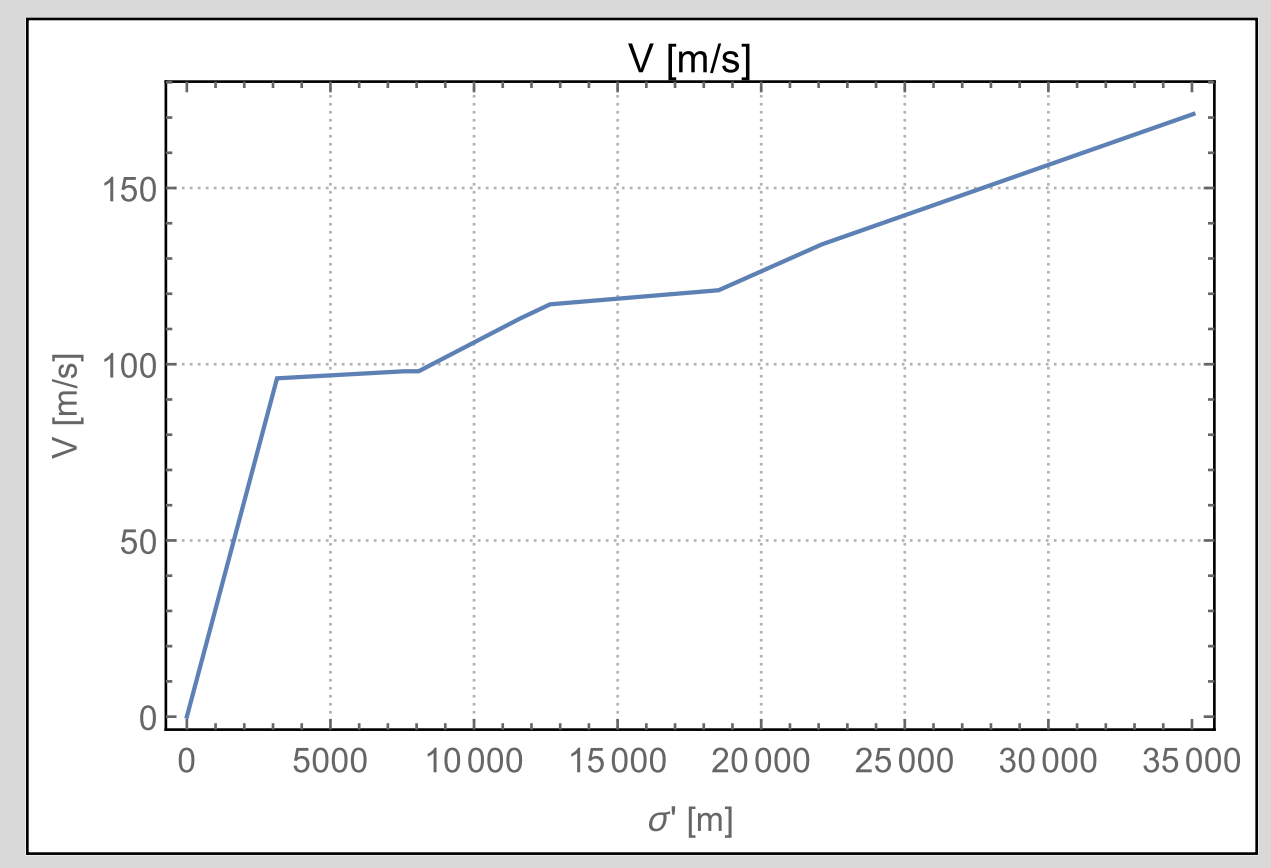
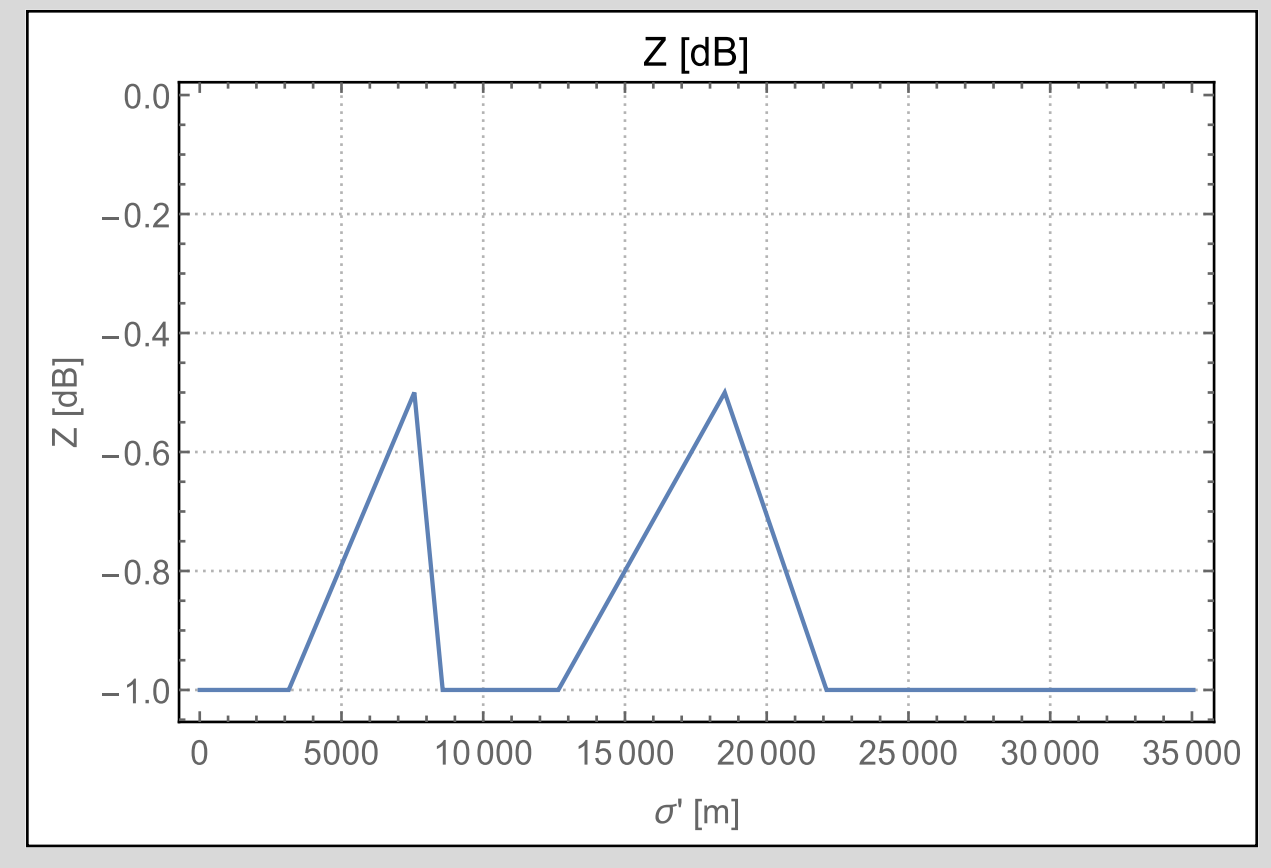
A380-841 100% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3140	-1	96	0
7570	-0.5	98	-
8070	-	98	457
8570	-1	-	-
11610	-1	113	619
12650	-1	117	673
18520	-0.5	121	1205
22110	-1	134	1376
35050	-1	171	1956
$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 35050	0	0	0,061

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	D_1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	D_1+F	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	D_1+F	MaxClimb	212.	0.
4	Accelerate to 220 kt	ACC	0	D_1	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	D_1	MaxClimb	18520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	D_1	MaxClimb	242.	0.
7	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	66 161 lbf	0 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
End	185. knots	185.8 knots	51 671 lbf	3135 m	328 ft	0.°	0 ft/min	-1. dB <sub>A</sub>
Gain	185. knots	185.8 knots	-14 490 lbf	3135 m	0 ft	0.°	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	185.8 knots	51 671 lbf	3135 m	328 ft	5.29°	1735 ft/min	-1. dB <sub>A</sub>
End	185. knots	190. knots	53 263 lbf	8069 m	1828 ft	5.29°	1774 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	4.2 knots	1592 lbf	4934 m	1500 ft	0.°	39 ft/min	0.5 dB <sub>A</sub>

Segment 3 Accelerate to Flaps 1 Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	190. knots	53 263 lbf	8069 m	1828 ft	2.62°	880 ft/min	-0.5 dB <sub>A</sub>
End	212. knots	219.5 knots	52 426 lbf	11 612 m	2360 ft	2.62°	1016 ft/min	-1. dB <sub>A</sub>
Gain	27. knots	29.5 knots	-837 lbf	3543 m	532 ft	0.°	136 ft/min	-0.5 dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	219.5 knots	52 426 lbf	11 612 m	2360 ft	2.96°	1148 ft/min	-1. dB <sub>A</sub>
End	220. knots	228.4 knots	52 194 lbf	12 651 m	2536 ft	2.96°	1194 ft/min	-1. dB <sub>A</sub>
Gain	8. knots	8.9 knots	-232 lbf	1039 m	176 ft	0.°	46 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	228.4 knots	52 194 lbf	12 651 m	2536 ft	5.18°	2088 ft/min	-1. dB <sub>A</sub>
End	220. knots	234.4 knots	53 867 lbf	18 519 m	4282 ft	5.18°	2143 ft/min	-0.5 dB <sub>A</sub>
Gain	0. knots	6. knots	1673 lbf	5868 m	1746 ft	0.°	55 ft/min	0.5 dB <sub>A</sub>

Segment 6 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.4 knots	53 867 lbf	18 519 m	4282 ft	2.73°	1131 ft/min	-0.5 dB <sub>A</sub>
End	242. knots	260. knots	53 231 lbf	22 113 m	4844 ft	2.73°	1254 ft/min	-1. dB <sub>A</sub>
Gain	22. knots	25.6 knots	-636 lbf	3594 m	562 ft	0.°	123 ft/min	-0.5 dB <sub>A</sub>

Segment 7 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	260. knots	53 231 lbf	22 113 m	4844 ft	2.56°	1176 ft/min	-1. dB <sub>A</sub>
End	300. knots	331.9 knots	51 774 lbf	35 048 m	6744 ft	2.56°	1501 ft/min	-1. dB <sub>A</sub>
Gain	58. knots	71.9 knots	-1457 lbf	12 935 m	1900 ft	0.°	325 ft/min	0. dB <sub>A</sub>

Segment 8 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	331.9 knots	51 774 lbf	35 048 m	6744 ft	3.5°	2052 ft/min	-1. dB <sub>A</sub>
End	300. knots	380.1 knots	55 822 lbf	77 863 m	15 328 ft	3.5°	2350 ft/min	0. dB <sub>A</sub>
Gain	0. knots	48.2 knots	4048 lbf	42 815 m	8584 ft	0.°	298 ft/min	1. dB <sub>A</sub>

# NADP2-15

A380-841 75% MTOM

Fixpunktprofil nach AzB

$\sigma'$ [m]	Z [dB]	V [m/s]	H [m]
0	-4,5	0	0
2370	-4,5	87	0
6810	-4,5	89	-
7310	-	89	457
7810	-4,5	-	-
12470	-4,5	112	689
13900	-4,5	118	763
18520	-4,5	120	1183
35150	-4,5	171	1929

$\sigma'$ [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 35150	0	0	0,06

prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	D_1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	D_1+F	MaxTakeoff	1500.	0.
3	Accelerate to Flaps UP Speed	ACC	1.	D_1+F	MaxClimb	209.	0.
4	Accelerate to 220 kt	ACC	0	ZERO	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	ZERO	MaxClimb	18520.	0.
6	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
7	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	48 480 lbf	0 m	328 ft	0. °	0 ft/min	-4.5 dB <sub>A</sub>
End	168. knots	168.8 knots	38 838 lbf	2367 m	328 ft	0. °	0 ft/min	-4.5 dB <sub>A</sub>
Gain	168. knots	168.8 knots	-9642 lbf	2367 m	0 ft	0. °	0 ft/min	0. dB <sub>A</sub>

Segment 2 Climb to 1500 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	168.8 knots	38 838 lbf	2367 m	328 ft	5.29 °	1576 ft/min	-4.5 dB <sub>A</sub>
End	168. knots	172.5 knots	40 005 lbf	7308 m	1828 ft	5.29 °	1611 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	3.7 knots	1167 lbf	4941 m	1500 ft	0. °	35 ft/min	0. dB <sub>A</sub>

Segment 3 Accelerate to Flaps UP Speed 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	172.5 knots	40 005 lbf	7308 m	1828 ft	2.57 °	784 ft/min	-4.5 dB <sub>A</sub>
End	209. knots	217.1 knots	39 026 lbf	12 467 m	2589 ft	2.57 °	986 ft/min	-4.5 dB <sub>A</sub>
Gain	41. knots	44.6 knots	-979 lbf	5159 m	761 ft	0. °	202 ft/min	0. dB <sub>A</sub>

Segment 4 Accelerate to 220 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	217.1 knots	39 026 lbf	12 467 m	2589 ft	2.95 °	1132 ft/min	-4.5 dB <sub>A</sub>
End	220. knots	229.4 knots	38 787 lbf	13 898 m	2831 ft	2.95 °	1195 ft/min	-4.5 dB <sub>A</sub>
Gain	11. knots	12.3 knots	-239 lbf	1431 m	242 ft	0. °	63 ft/min	0. dB <sub>A</sub>

Segment 5 Climb to 10NM

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	229.4 knots	38 787 lbf	13 898 m	2831 ft	5.19 °	2101 ft/min	-4.5 dB <sub>A</sub>
End	220. knots	234.1 knots	39 755 lbf	18 524 m	4208 ft	5.19 °	2145 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	4.7 knots	968 lbf	4626 m	1377 ft	0. °	44 ft/min	0. dB <sub>A</sub>

Segment 6 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	234.1 knots	39 755 lbf	18 524 m	4208 ft	2.57 °	1063 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	331.5 knots	38 210 lbf	35 153 m	6658 ft	2.57 °	1505 ft/min	-4.5 dB <sub>A</sub>
Gain	80. knots	97.4 knots	-1545 lbf	16 629 m	2450 ft	0. °	442 ft/min	0. dB <sub>A</sub>

Segment 7 Climb to 15000 ft

	CAS	TAS	$f_N/\delta$ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	331.5 knots	38 210 lbf	35 153 m	6658 ft	3.42 °	2002 ft/min	-4.5 dB <sub>A</sub>
End	300. knots	380.1 knots	41 249 lbf	79 425 m	15 328 ft	3.42 °	2296 ft/min	-4.5 dB <sub>A</sub>
Gain	0. knots	48.6 knots	3039 lbf	44 272 m	8670 ft	0. °	294 ft/min	0. dB <sub>A</sub>

