

NADP1-UNL

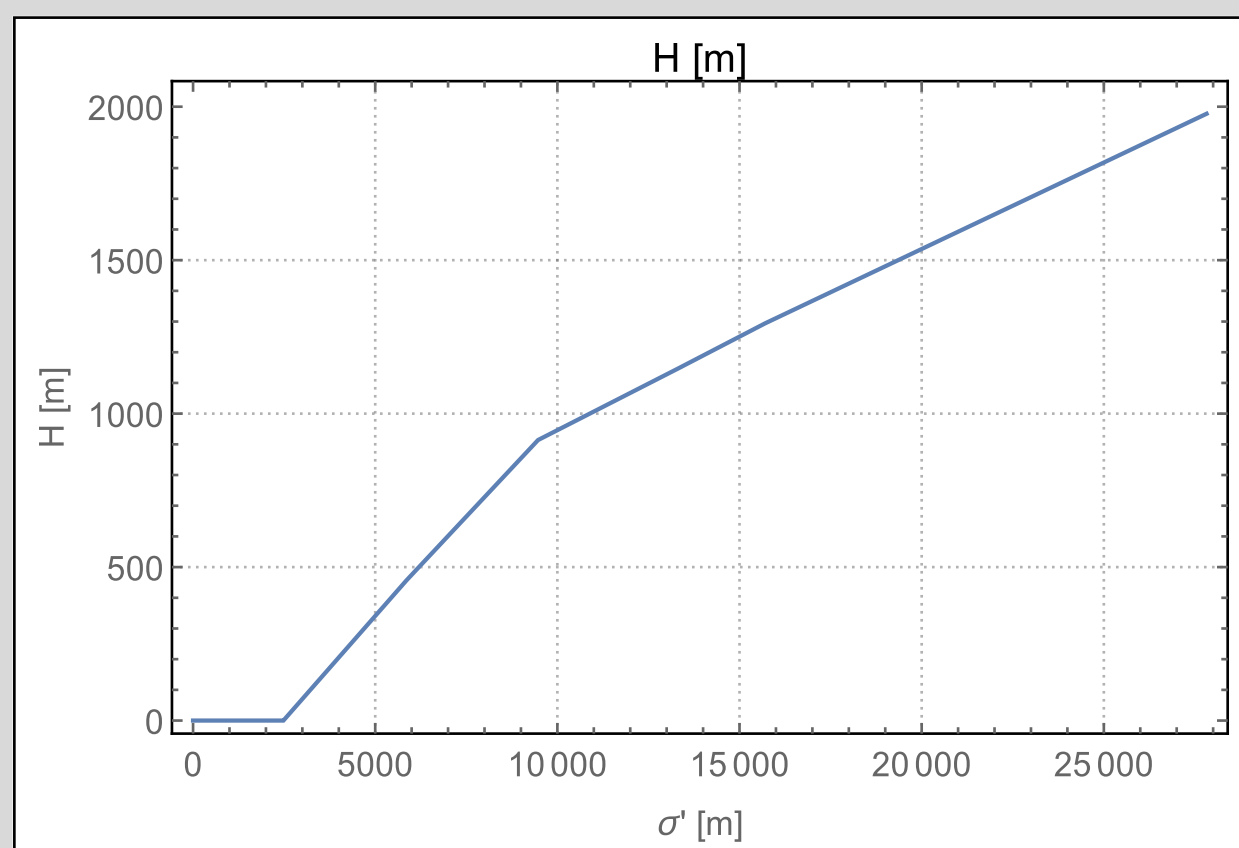
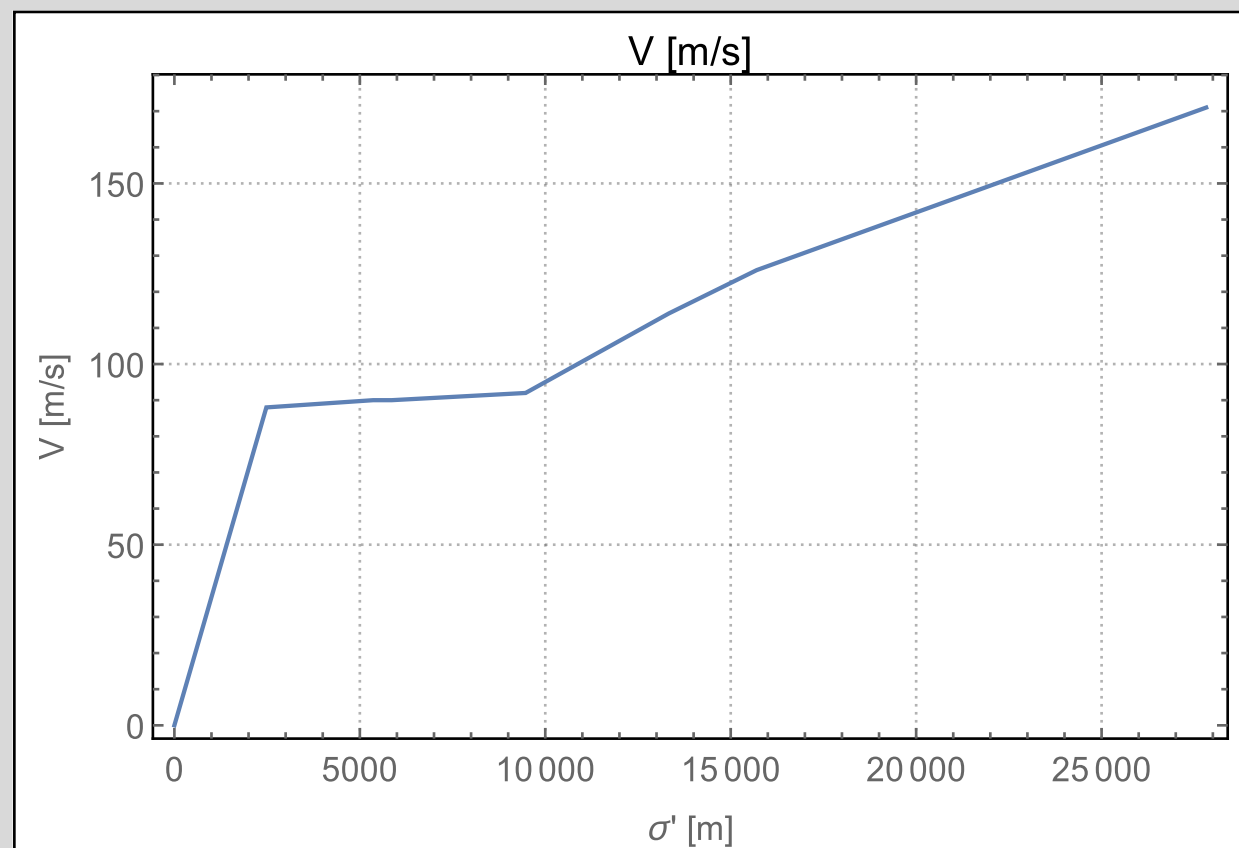
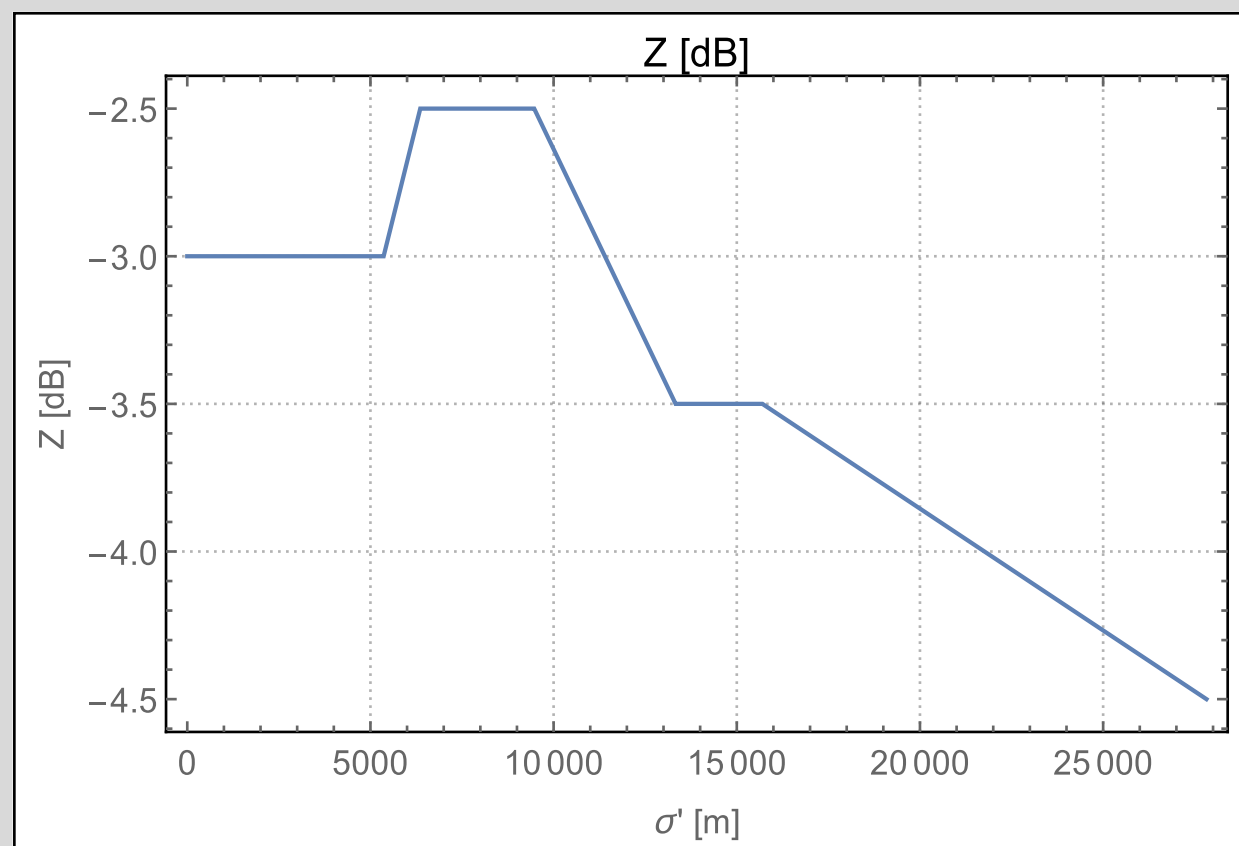
737800 95% MTOM

Fixpunktprofil nach AzB

σ' [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
15700	-3,5	126	1294
27820	-4,5	171	1977
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 27820	0	0	0,079

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	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 Flaps UP Speed	ACC	0	T_01	MaxClimb	229.	0.
6	Accelerate to 300 kt	ACC	0	T_00	MaxClimb	300.	0.
7	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	100. kN	0 m	328 ft	0. °	0 ft/min	-3. dB _A
End	170. knots	170.8 knots	81.07 kN	2481 m	328 ft	0. °	0 ft/min	-3. dB _A
Gain	170. knots	170.8 knots	-18.93 kN	2481 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	81.07 kN	2481 m	328 ft	7.7 °	2318 ft/min	-3. dB _A
End	170. knots	174.6 knots	81.89 kN	5860 m	1828 ft	7.7 °	2369 ft/min	-3. dB _A
Gain	0. knots	3.8 knots	0.82 kN	3379 m	1500 ft	0. °	51 ft/min	0. dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	174.6 knots	81.52 kN	5860 m	1828 ft	7.22 °	2223 ft/min	-3. dB _A
End	170. knots	178.6 knots	83.56 kN	9471 m	3328 ft	7.22 °	2273 ft/min	-2.5 dB _A
Gain	0. knots	4. knots	2.04 kN	3611 m	1500 ft	0. °	50 ft/min	0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	178.6 knots	83.56 kN	9471 m	3328 ft	3.47 °	1095 ft/min	-2.5 dB _A
End	209. knots	222. knots	79.87 kN	13331 m	4095 ft	3.47 °	1361 ft/min	-3.5 dB _A
Gain	39. knots	43.4 knots	-3.69 kN	3860 m	767 ft	0. °	266 ft/min	-1. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	222. knots	79.88 kN	13331 m	4095 ft	3.51 °	1377 ft/min	-3.5 dB _A
End	229. knots	245.1 knots	78.1 kN	15702 m	4572 ft	3.51 °	1519 ft/min	-3.5 dB _A
Gain	20. knots	23.1 knots	-1.78 kN	2371 m	477 ft	0. °	142 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	245.1 knots	78.1 kN	15702 m	4572 ft	3.23 °	1398 ft/min	-3.5 dB _A
End	300. knots	332.3 knots	72.54 kN	27825 m	6815 ft	3.23 °	1896 ft/min	-4.5 dB _A
Gain	71. knots	87.2 knots	-5.56 kN	12123 m	2243 ft	0. °	498 ft/min	-1. dB _A

Segment 7 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	332.3 knots	72.54 kN	27825 m	6815 ft	4.54 °	2663 ft/min	-4.5 dB _A
End	300. knots	380.1 knots	84.11 kN	60467 m	15328 ft	4.54 °	3047 ft/min	-2.5 dB _A
Gain	0. knots	47.8 knots	11.57 kN	32642 m	8513 ft	0. °	384 ft/min	2. dB _A

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737800 85% MTOM

Fixpunktprofil nach AzB

σ' [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
13650	-5	116	1212
27530	-6,5	171	2022

σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 27530	0	0	0,081

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	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 300 kt	ACC	0	T_00	MaxClimb	300.	0.
7	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	90. kN	0 m	328 ft	0. °	0 ft/min	-4.5 dB _A
End	162. knots	162.7 knots	73.76 kN	2194 m	328 ft	0. °	0 ft/min	-4.5 dB _A
Gain	162. knots	162.7 knots	-16.24 kN	2194 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	73.76 kN	2194 m	328 ft	7.89 °	2263 ft/min	-4.5 dB _A
End	162. knots	166.4 knots	74.5 kN	5495 m	1828 ft	7.89 °	2313 ft/min	-4.5 dB _A
Gain	0. knots	3.7 knots	0.74 kN	3301 m	1500 ft	0. °	50 ft/min	0. dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	166.4 knots	74.5 kN	5495 m	1828 ft	7.44 °	2182 ft/min	-4.5 dB _A
End	162. knots	170.2 knots	76.34 kN	8996 m	3328 ft	7.44 °	2231 ft/min	-4. dB _A
Gain	0. knots	3.8 knots	1.84 kN	3501 m	1500 ft	0. °	49 ft/min	0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	170.2 knots	76.34 kN	8996 m	3328 ft	3.62 °	1088 ft/min	-4. dB _A
End	192. knots	203.3 knots	73.73 kN	11623 m	3874 ft	3.62 °	1300 ft/min	-4.5 dB _A
Gain	30. knots	33.1 knots	-2.61 kN	2627 m	546 ft	0. °	212 ft/min	-0.5 dB _A

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

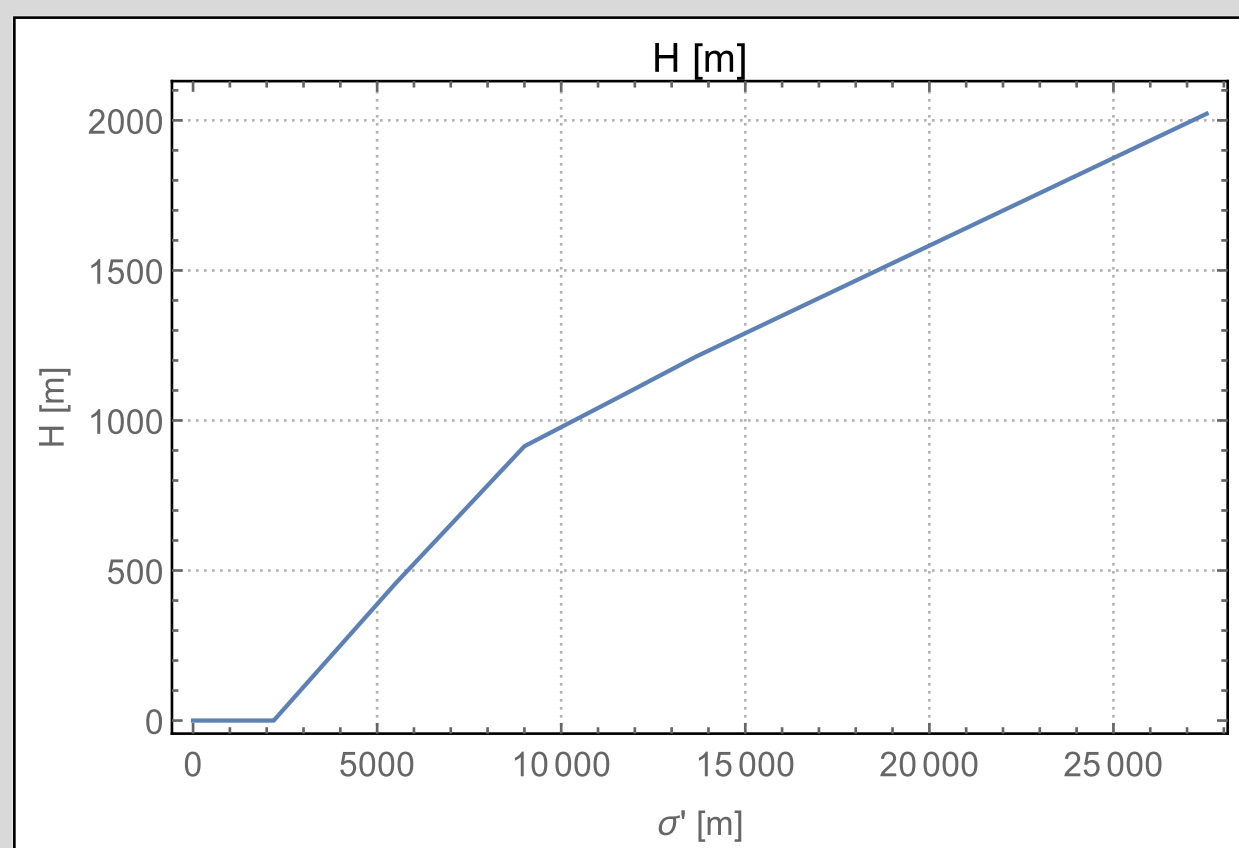
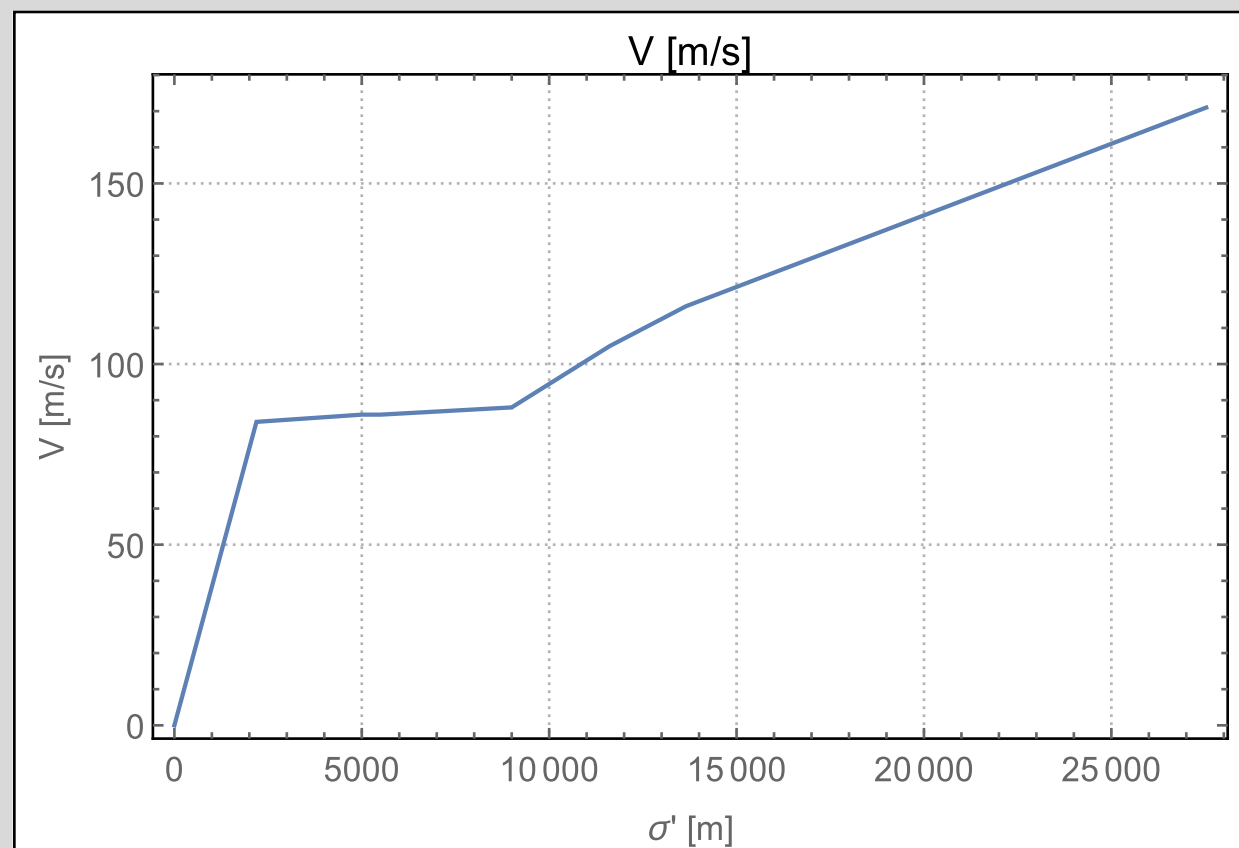
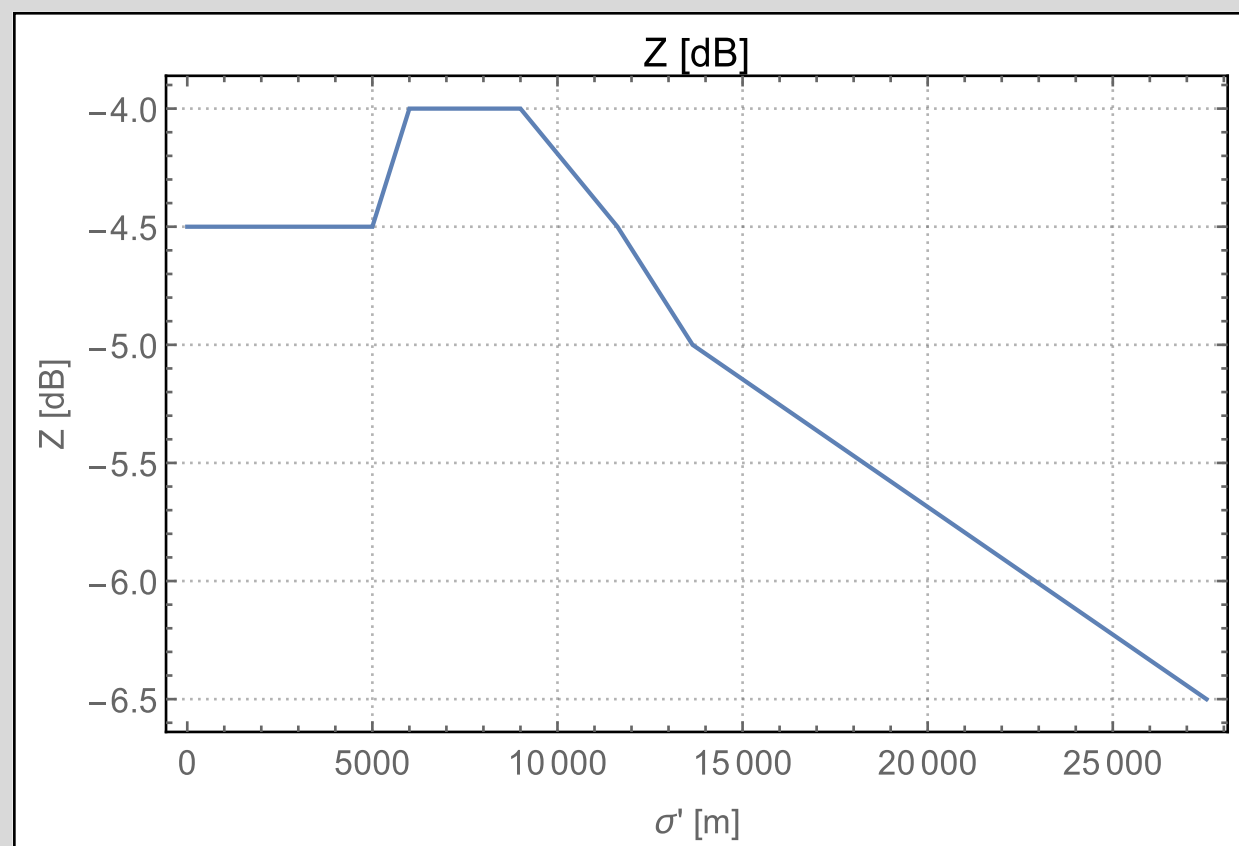
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Start	192. knots	203.3 knots	73.73 kN	11623 m	3874 ft	3.72 °	1336 ft/min	-4.5 dB _A
End	212. knots	226. knots	72.06 kN	13646 m	4305 ft	3.72 °	1485 ft/min	-5. dB _A
Gain	20. knots	22.7 knots	-1.67 kN	2023 m	431 ft	0. °	149 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	226. knots	72.06 kN	13646 m	4305 ft	3.34 °	1333 ft/min	-5. dB _A
End	300. knots	332.9 knots	65.69 kN	27526 m	6962 ft	3.34 °	1964 ft/min	-6.5 dB _A
Gain	88. knots	106.9 knots	-6.37 kN	13880 m	2657 ft	0. °	631 ft/min	-1.5 dB _A

Segment 7 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	332.9 knots	65.69 kN	27526 m	6962 ft	4.6 °	2704 ft/min	-6.5 dB _A
End	300. knots	380.1 knots	75.96 kN	59205 m	15328 ft	4.6 °	3087 ft/min	-4.5 dB _A
Gain	0. knots	47.2 knots	10.27 kN	31679 m	8366 ft	0. °	383 ft/min	2. dB _A



NADP2-10-UNL

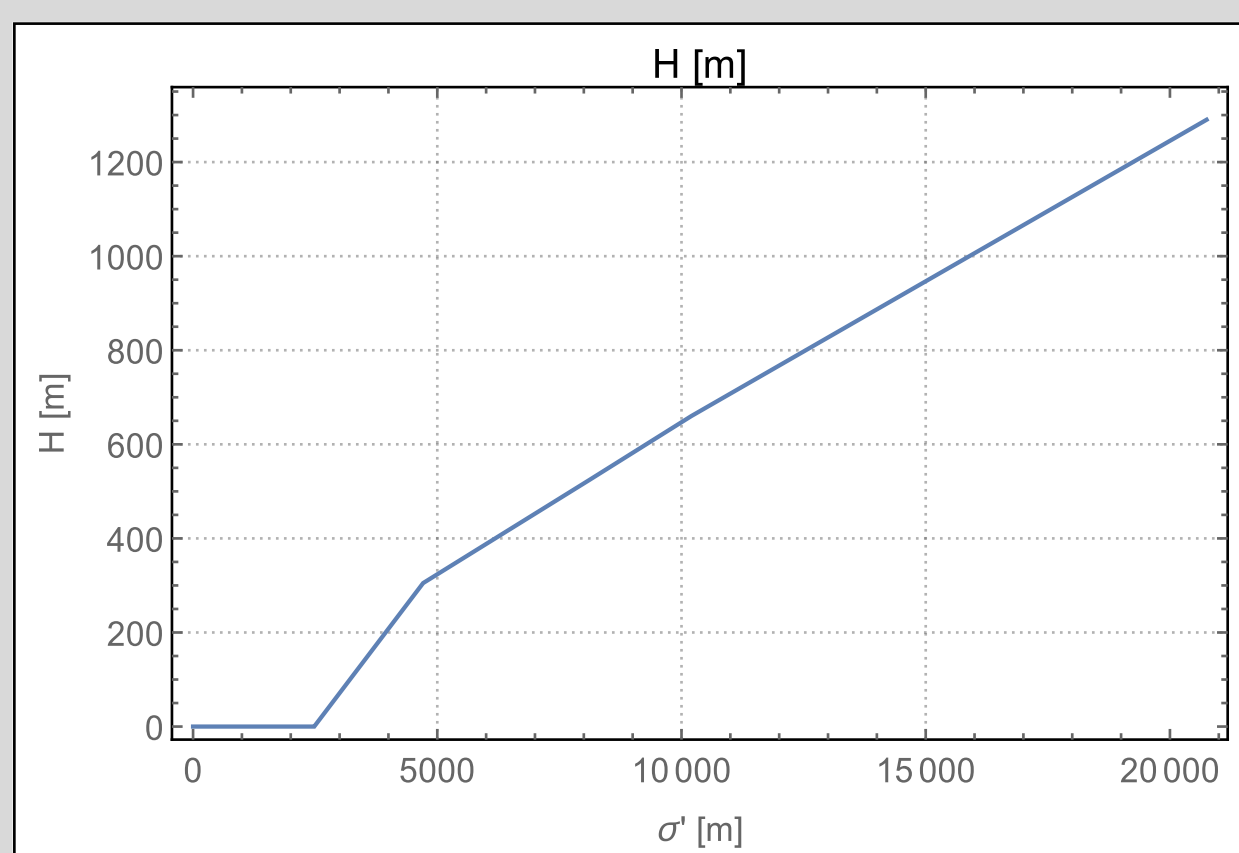
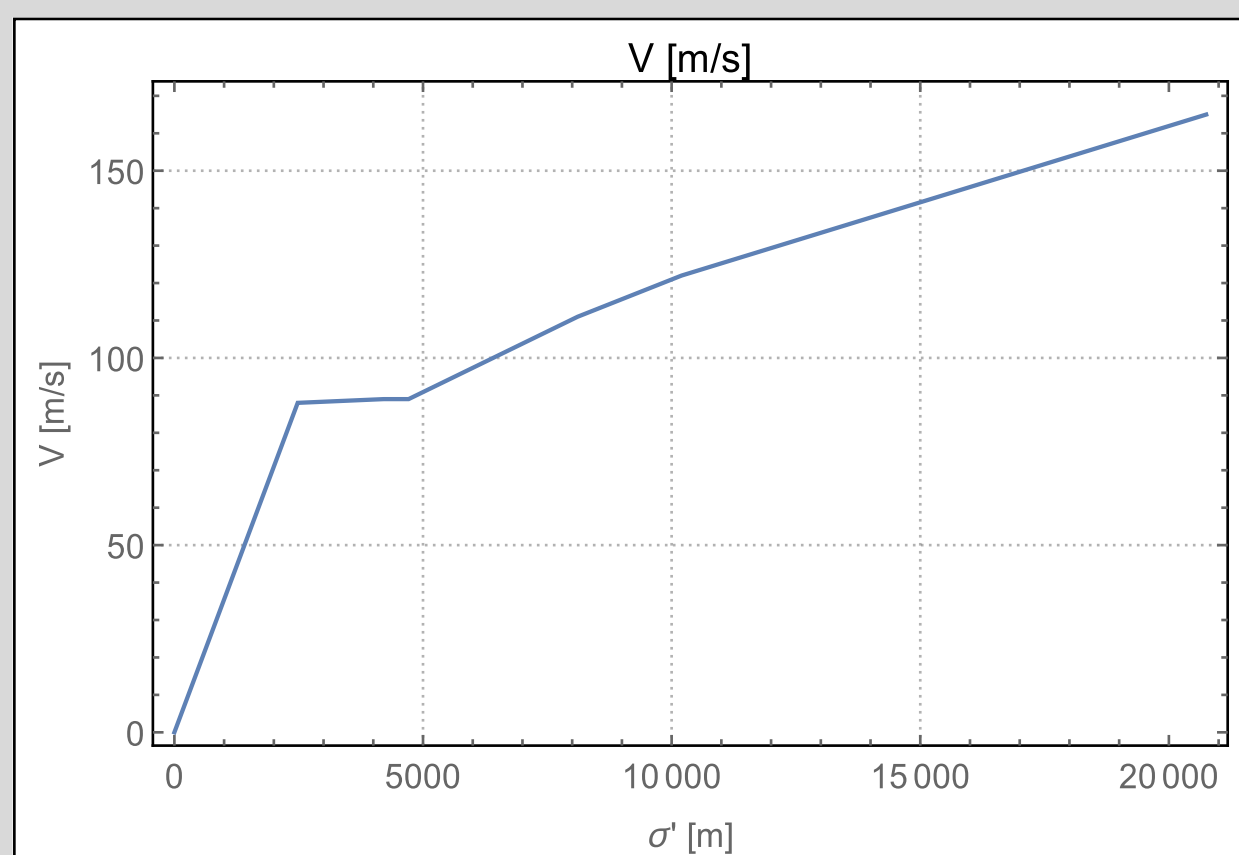
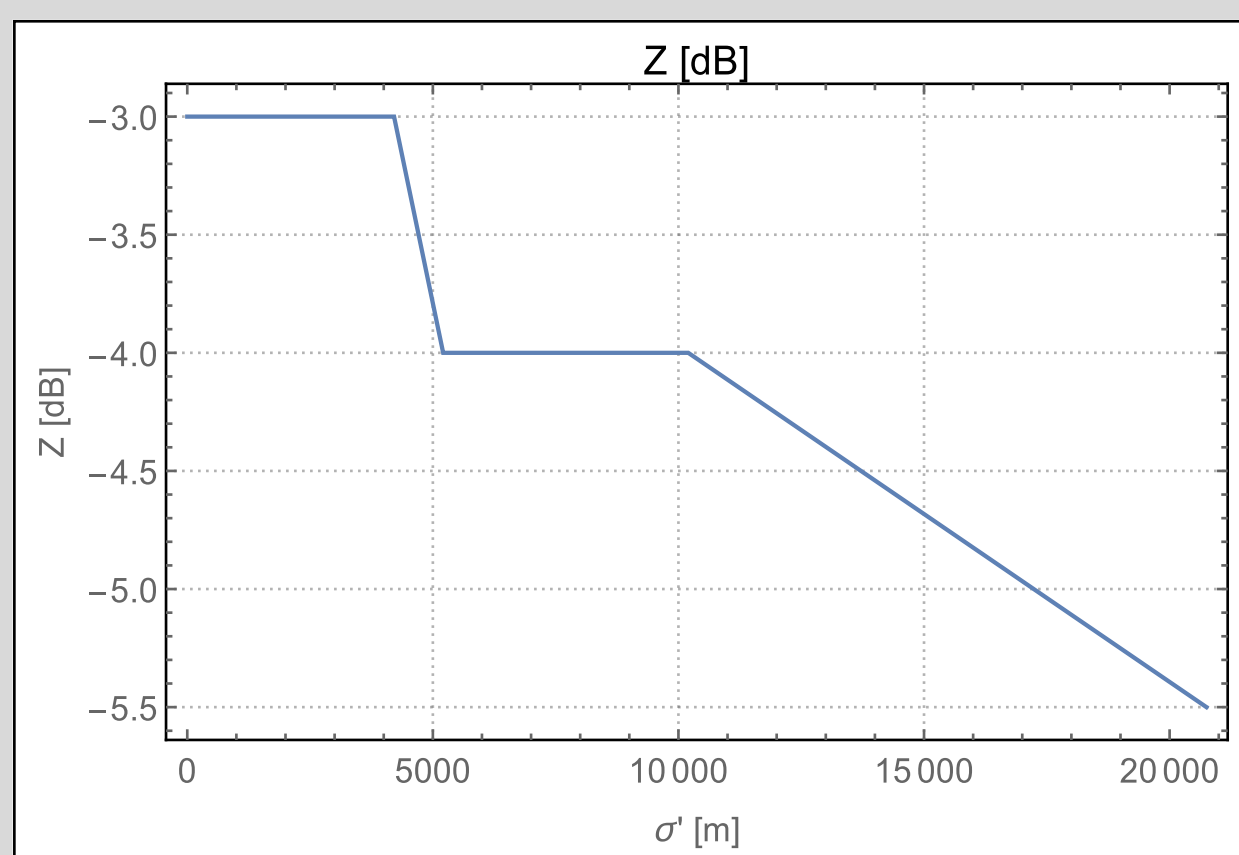
737800 95% MTOM

Fixpunktprofil nach AzB

σ' [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
10200	-4	122	660
20750	-5,5	165	1290
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 20750	0	0	0,084

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 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 Flaps UP Speed	ACC	0	T_01	MaxClimb	229.	0.
5	Accelerate to 300 kt	ACC	0	T_00	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	100. kN	0 m	328 ft	0. °	0 ft/min	-3. dB _A
End	170. knots	170.8 knots	81.07 kN	2481 m	328 ft	0. °	0 ft/min	-3. dB _A
Gain	170. knots	170.8 knots	-18.93 kN	2481 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	81.07 kN	2481 m	328 ft	7.79 °	2345 ft/min	-3. dB _A
End	170. knots	173.3 knots	81.61 kN	4709 m	1328 ft	7.79 °	2379 ft/min	-3. dB _A
Gain	0. knots	2.5 knots	0.54 kN	2228 m	1000 ft	0. °	34 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	173.3 knots	80.84 kN	4709 m	1328 ft	3.69 °	1130 ft/min	-3. dB _A
End	209. knots	215.3 knots	77.09 kN	8109 m	2047 ft	3.69 °	1404 ft/min	-4. dB _A
Gain	39. knots	42. knots	-3.75 kN	3400 m	719 ft	0. °	274 ft/min	-1. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	215.3 knots	77.09 kN	8109 m	2047 ft	3.73 °	1419 ft/min	-4. dB _A
End	229. knots	237.6 knots	75.27 kN	10196 m	2493 ft	3.73 °	1565 ft/min	-4. dB _A
Gain	20. knots	22.3 knots	-1.82 kN	2087 m	446 ft	0. °	146 ft/min	0. dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	237.6 knots	75.27 kN	10196 m	2493 ft	3.42 °	1435 ft/min	-4. dB _A
End	300. knots	321.1 knots	69.47 kN	20750 m	4562 ft	3.42 °	1939 ft/min	-5.5 dB _A
Gain	71. knots	83.5 knots	-5.8 kN	10554 m	2069 ft	0. °	504 ft/min	-1.5 dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	321.1 knots	69.47 kN	20750 m	4562 ft	4.78 °	2709 ft/min	-5.5 dB _A
End	300. knots	380.1 knots	84.11 kN	59993 m	15328 ft	4.78 °	3208 ft/min	-2.5 dB _A
Gain	0. knots	59. knots	14.64 kN	39243 m	10766 ft	0. °	499 ft/min	3. dB _A

NADP2-10-UNL

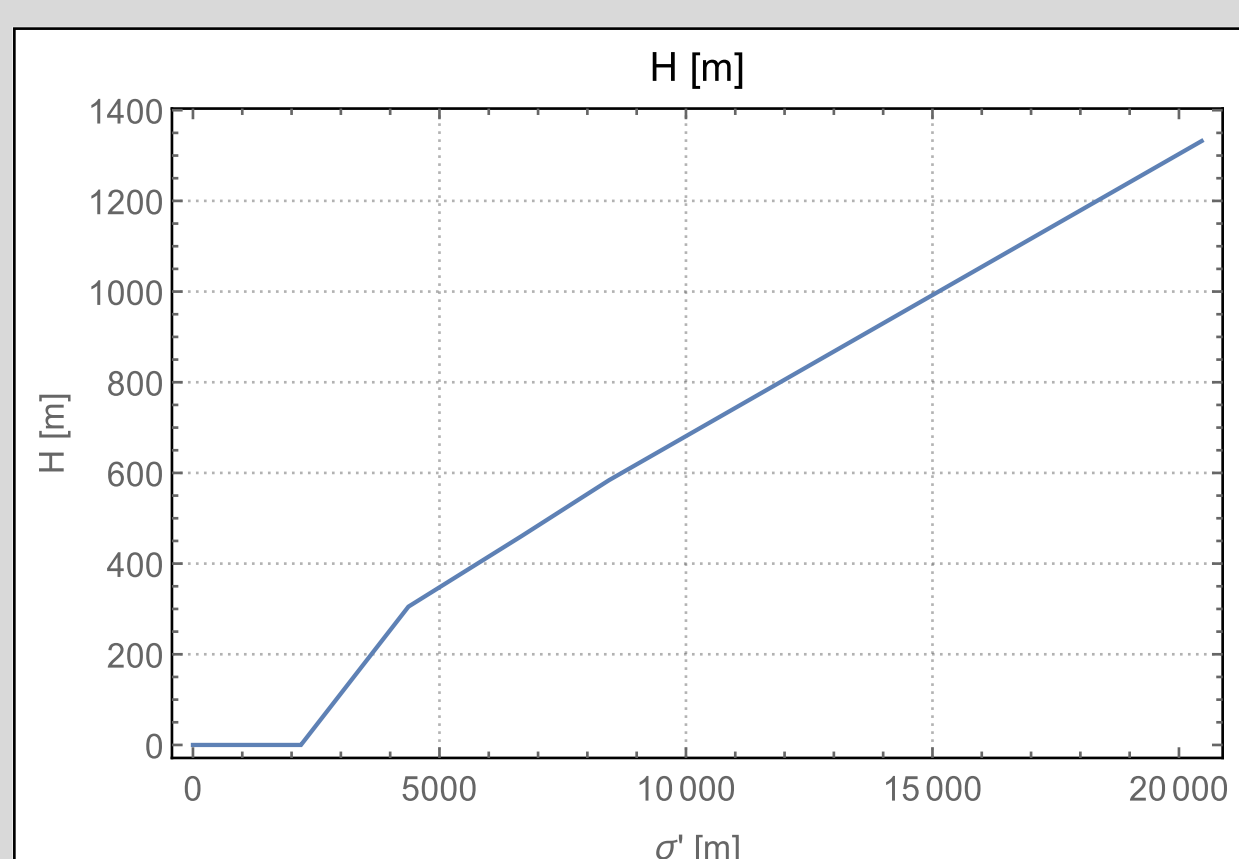
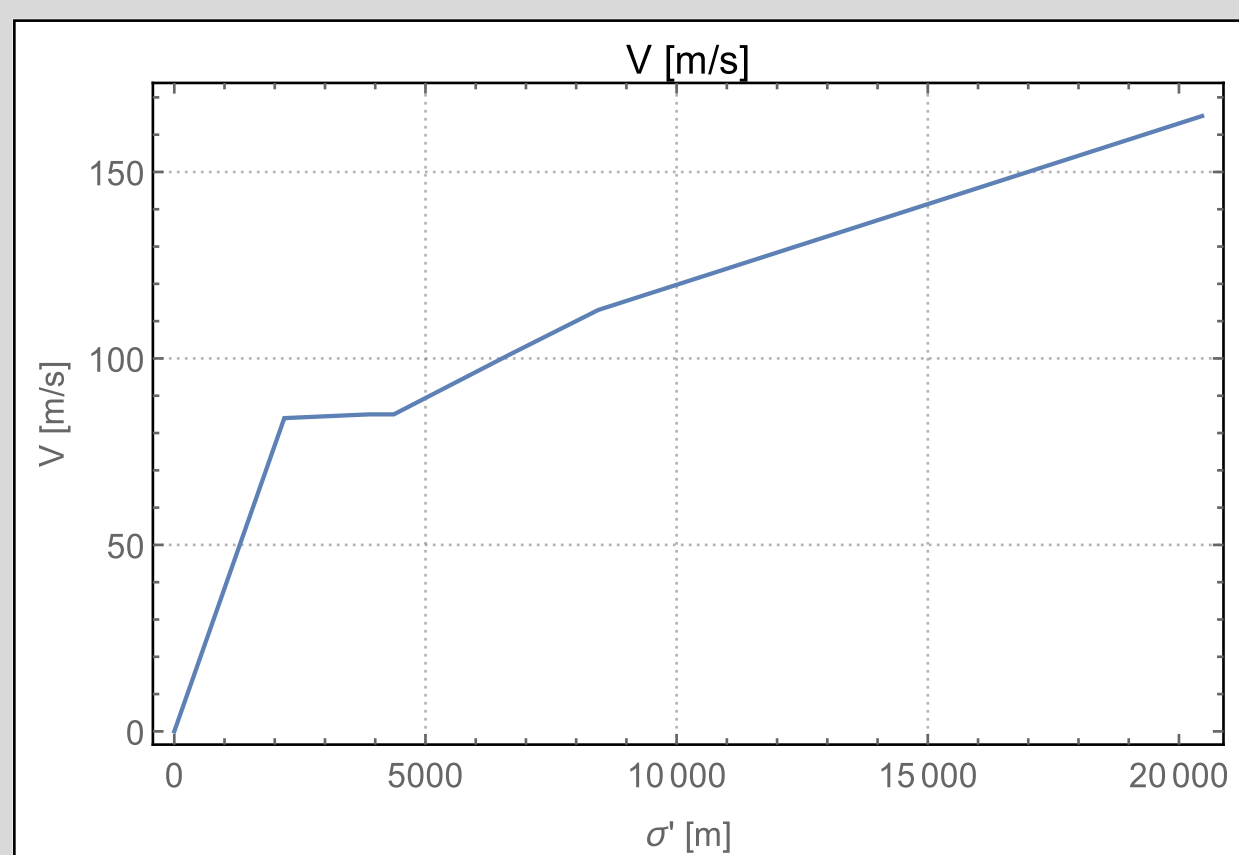
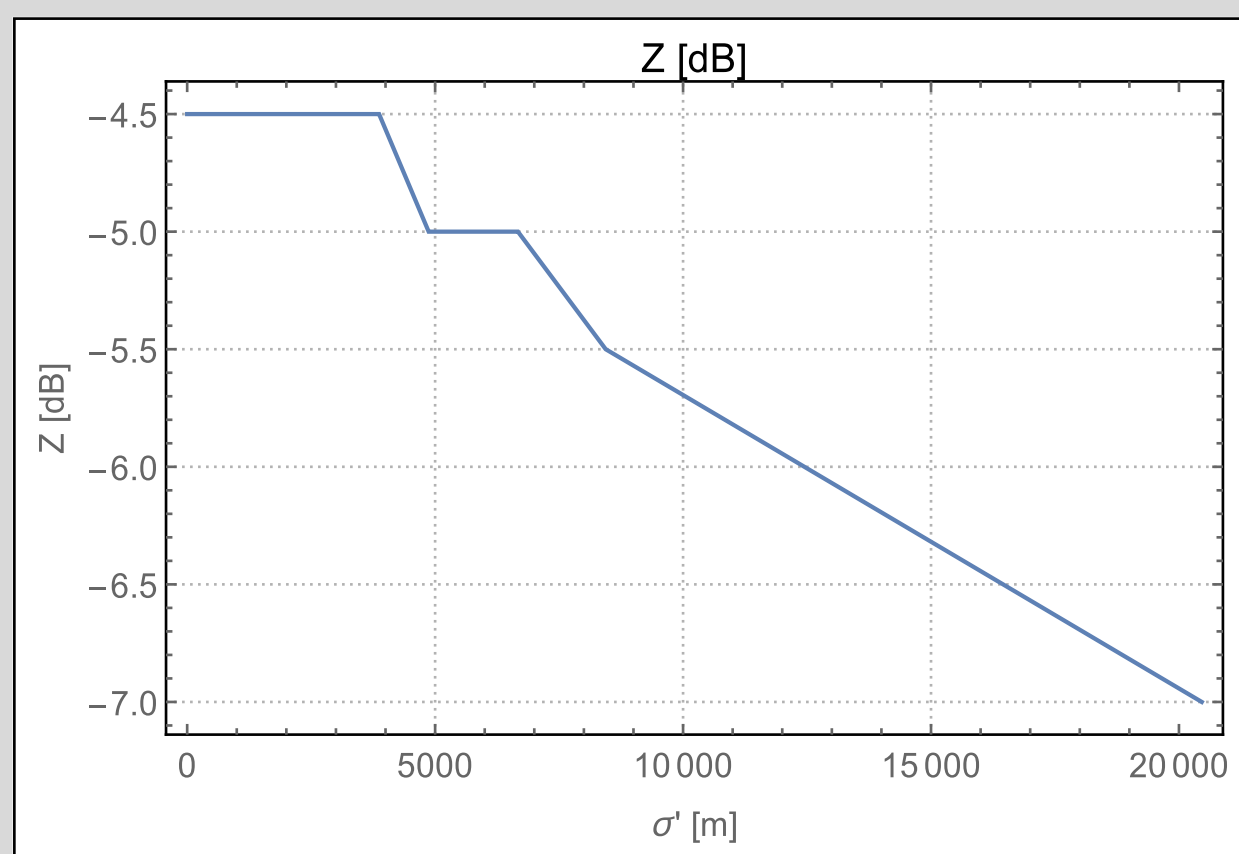
737800 85% MTOM

Fixpunktprofil nach AzB

σ' [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
20460	-7	165	1332
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 20460	0	0	0,085

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 300 kt	ACC	0	T_00	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	90. kN	0 m	328 ft	0. °	0 ft/min	-4.5 dB _A
End	162. knots	162.7 knots	73.76 kN	2194 m	328 ft	0. °	0 ft/min	-4.5 dB _A
Gain	162. knots	162.7 knots	-16.24 kN	2194 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	73.76 kN	2194 m	328 ft	7.97 °	2285 ft/min	-4.5 dB _A
End	162. knots	165.2 knots	74.26 kN	4371 m	1328 ft	7.97 °	2319 ft/min	-4.5 dB _A
Gain	0. knots	2.5 knots	0.5 kN	2177 m	1000 ft	0. °	34 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	165.2 knots	74.26 kN	4371 m	1328 ft	3.89 °	1135 ft/min	-4.5 dB _A
End	192. knots	197.3 knots	71.59 kN	6671 m	1841 ft	3.89 °	1355 ft/min	-5. dB _A
Gain	30. knots	32.1 knots	-2.67 kN	2300 m	513 ft	0. °	220 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	192. knots	197.3 knots	71.59 kN	6671 m	1841 ft	3.97 °	1383 ft/min	-5. dB _A
End	212. knots	219.1 knots	69.89 kN	8444 m	2245 ft	3.97 °	1536 ft/min	-5.5 dB _A
Gain	20. knots	21.8 knots	-1.7 kN	1773 m	404 ft	0. °	153 ft/min	-0.5 dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	219.1 knots	69.89 kN	8444 m	2245 ft	3.56 °	1378 ft/min	-5.5 dB _A
End	300. knots	321.6 knots	63.23 kN	20456 m	4699 ft	3.56 °	2023 ft/min	-7. dB _A
Gain	88. knots	102.5 knots	-6.66 kN	12012 m	2454 ft	0. °	645 ft/min	-1.5 dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	321.6 knots	63.23 kN	20456 m	4699 ft	4.88 °	2771 ft/min	-7. dB _A
End	300. knots	380.1 knots	76.34 kN	58409 m	15328 ft	4.88 °	3275 ft/min	-4. dB _A
Gain	0. knots	58.5 knots	13.11 kN	37953 m	10629 ft	0. °	504 ft/min	3. dB _A

NADP2-15-UNL

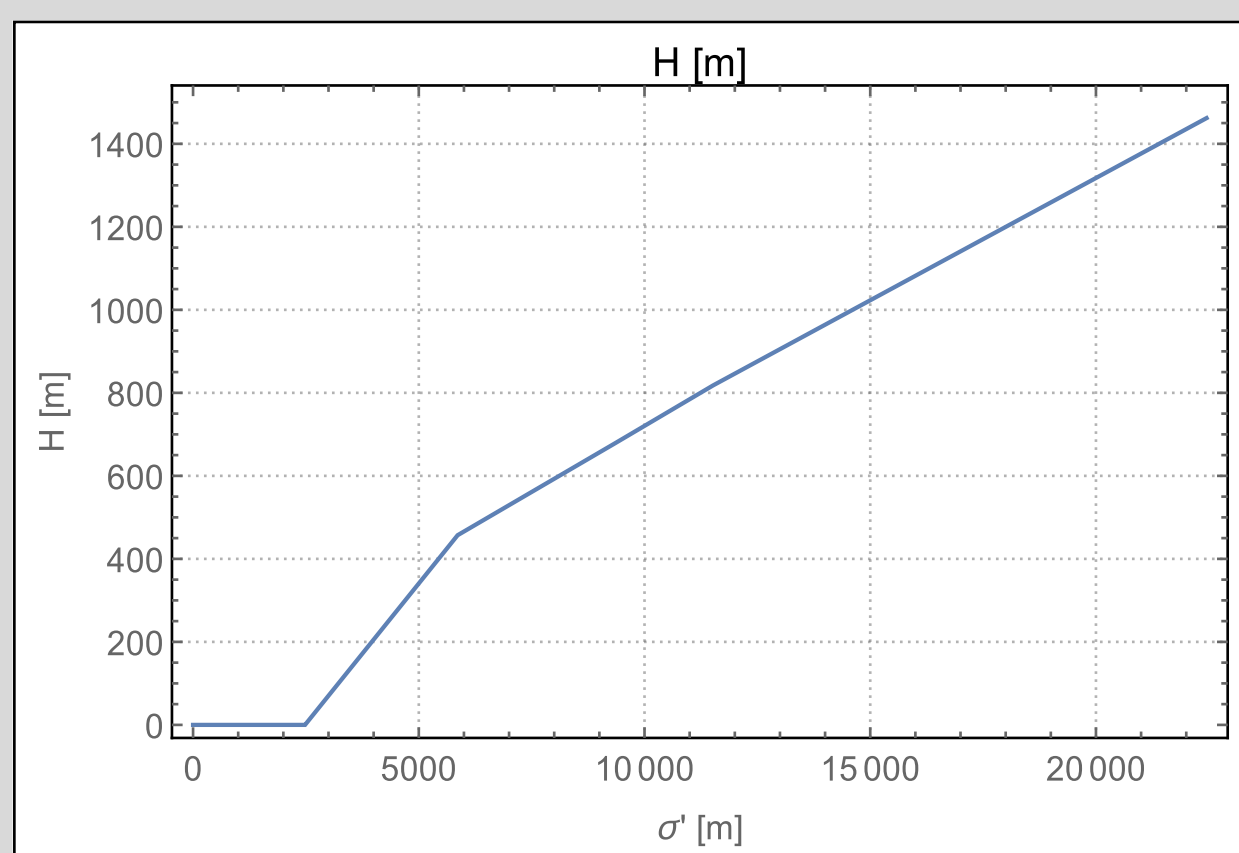
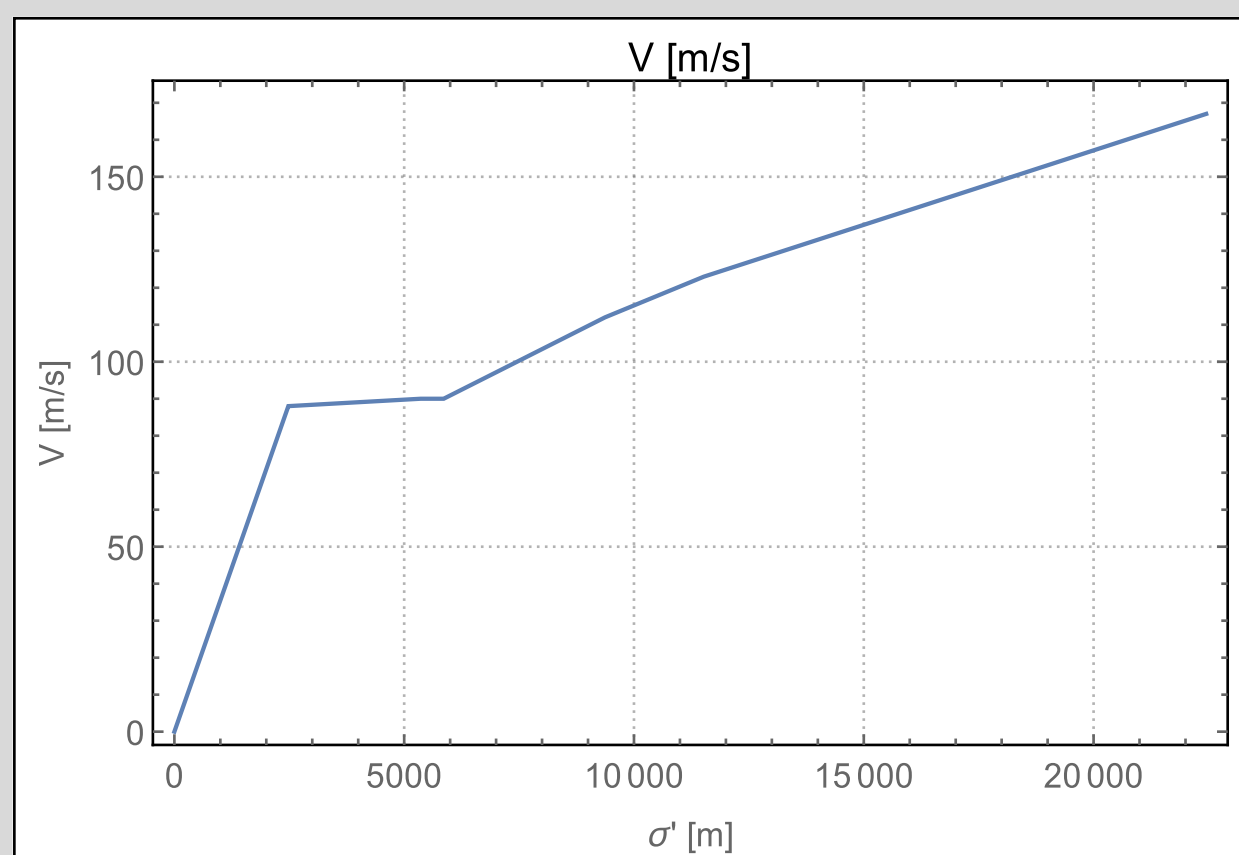
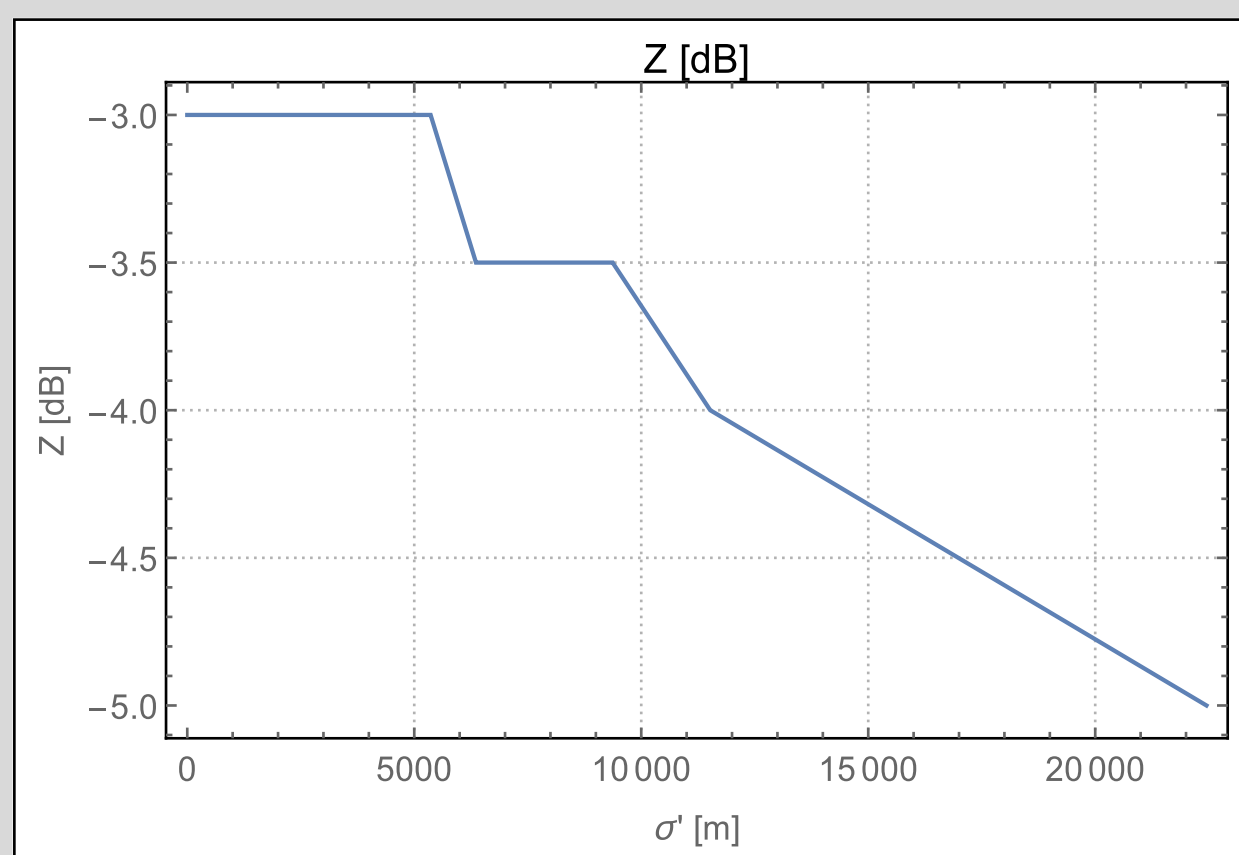
737800 95% MTOM

Fixpunktprofil nach AzB

σ' [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
11520	-4	123	818
22450	-5	167	1462
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 22450	0	0	0,083

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	Accelerate to Flaps 1 Speed	ACC	1.	T_05	MaxClimb	209.	0.
4	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	229.	0.
5	Accelerate to 300 kt	ACC	0	T_00	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	100. kN	0 m	328 ft	0.°	0 ft/min	-3. dB _A
End	170. knots	170.8 knots	81.07 kN	2481 m	328 ft	0.°	0 ft/min	-3. dB _A
Gain	170. knots	170.8 knots	-18.93 kN	2481 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	81.07 kN	2481 m	328 ft	7.7°	2318 ft/min	-3. dB _A
End	170. knots	174.6 knots	81.89 kN	5860 m	1828 ft	7.7°	2369 ft/min	-3. dB _A
Gain	0. knots	3.8 knots	0.82 kN	3379 m	1500 ft	0.°	51 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	174.6 knots	81.52 kN	5860 m	1828 ft	3.64°	1123 ft/min	-3. dB _A
End	209. knots	217.1 knots	77.79 kN	9367 m	2559 ft	3.64°	1395 ft/min	-3.5 dB _A
Gain	39. knots	42.5 knots	-3.73 kN	3507 m	731 ft	0.°	272 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	217.1 knots	77.79 kN	9367 m	2559 ft	3.67°	1407 ft/min	-3.5 dB _A
End	229. knots	239.4 knots	75.98 kN	11521 m	3012 ft	3.67°	1552 ft/min	-4. dB _A
Gain	20. knots	22.3 knots	-1.81 kN	2154 m	453 ft	0.°	145 ft/min	-0.5 dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	239.4 knots	75.98 kN	11521 m	3012 ft	3.37°	1425 ft/min	-4. dB _A
End	300. knots	323.7 knots	70.24 kN	22446 m	5124 ft	3.37°	1927 ft/min	-5. dB _A
Gain	71. knots	84.3 knots	-5.74 kN	10925 m	2112 ft	0.°	502 ft/min	-1. dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	323.7 knots	70.24 kN	22446 m	5124 ft	4.72°	2698 ft/min	-5. dB _A
End	300. knots	380.1 knots	84.11 kN	60131 m	15328 ft	4.72°	3167 ft/min	-2.5 dB _A
Gain	0. knots	56.4 knots	13.87 kN	37685 m	10204 ft	0.°	469 ft/min	2.5 dB _A

NADP2-15-UNL

737800 85% MTOM

Fixpunktprofil nach AzB

σ' [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
22240	-7	167	1504

σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 22240	0	0	0,084

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 300 kt	ACC	0	T_00	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	T_00	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	90. kN	0 m	328 ft	0. °	0 ft/min	-4.5 dB _A
End	162. knots	162.7 knots	73.76 kN	2194 m	328 ft	0. °	0 ft/min	-4.5 dB _A
Gain	162. knots	162.7 knots	-16.24 kN	2194 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	73.76 kN	2194 m	328 ft	7.89 °	2263 ft/min	-4.5 dB _A
End	162. knots	166.4 knots	74.5 kN	5495 m	1828 ft	7.89 °	2313 ft/min	-4.5 dB _A
Gain	0. knots	3.7 knots	0.74 kN	3301 m	1500 ft	0. °	50 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	166.4 knots	74.5 kN	5495 m	1828 ft	3.8 °	1117 ft/min	-4.5 dB _A
End	192. knots	198.8 knots	71.85 kN	7884 m	2349 ft	3.8 °	1334 ft/min	-5. dB _A
Gain	30. knots	32.4 knots	-2.65 kN	2389 m	521 ft	0. °	217 ft/min	-0.5 dB _A

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

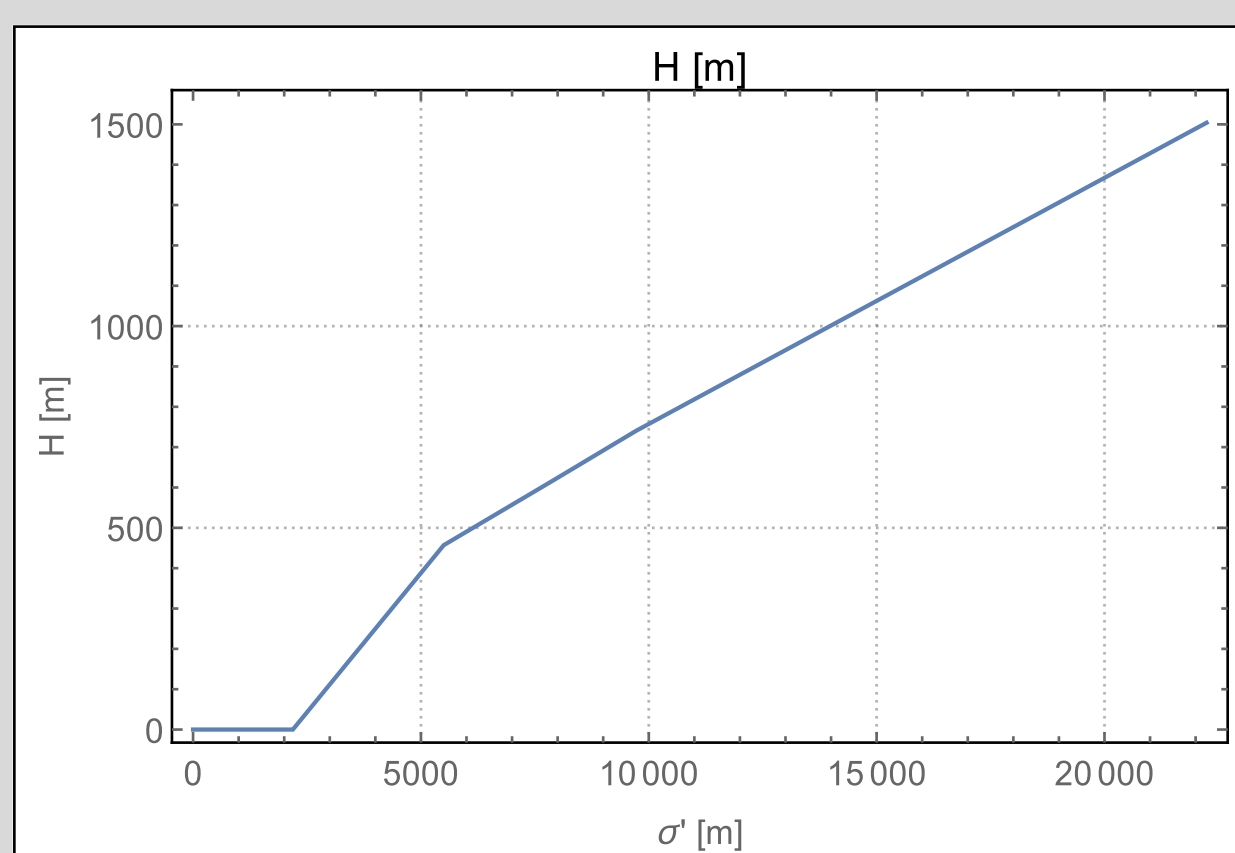
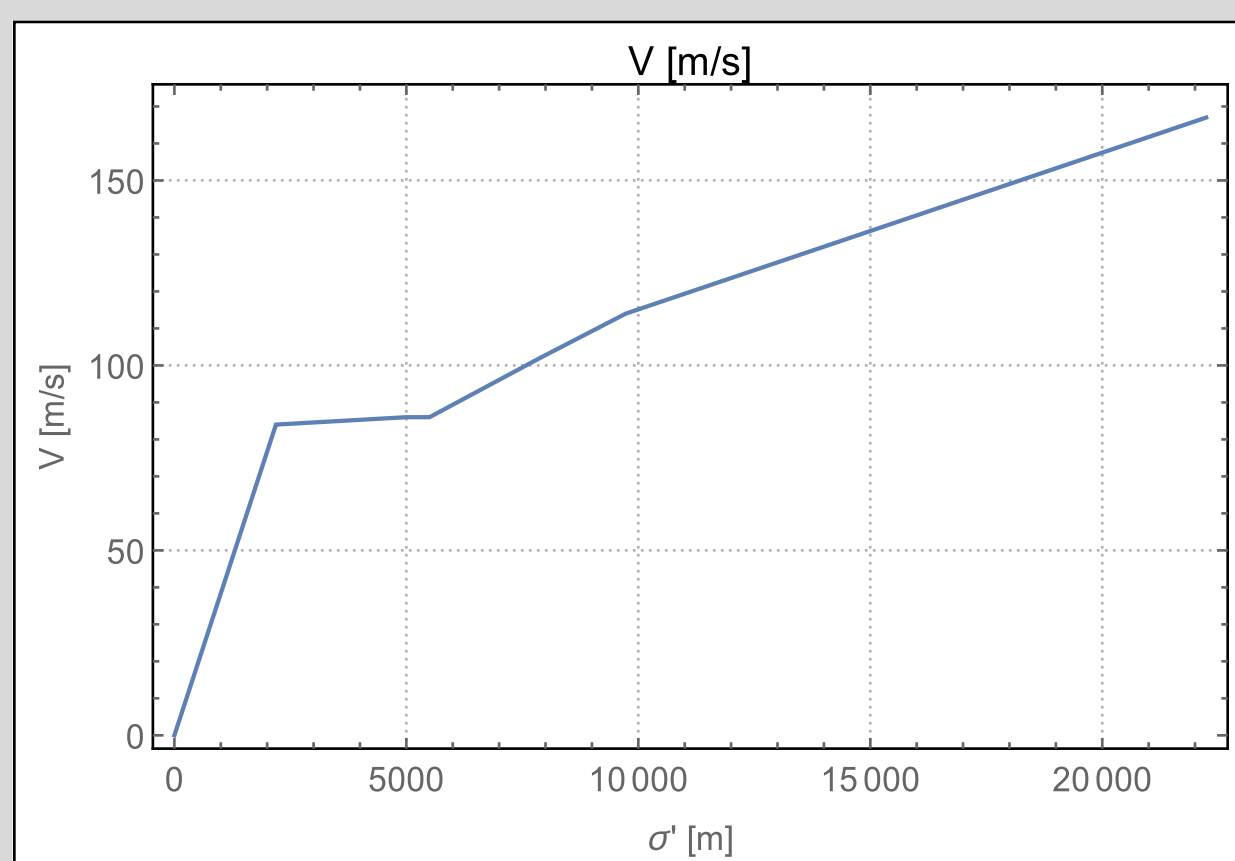
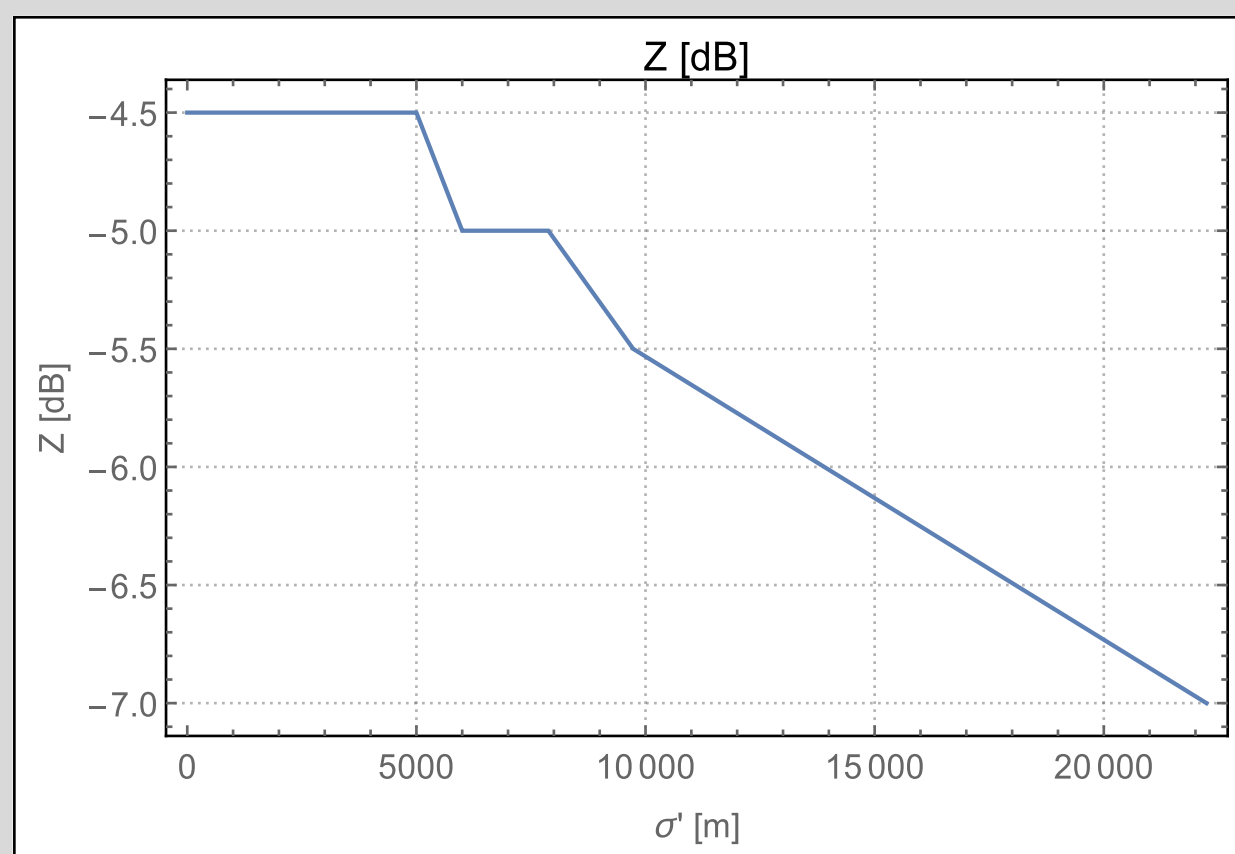
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	192. knots	198.8 knots	71.85 kN	7884 m	2349 ft	3.88 °	1362 ft/min	-5. dB _A
End	212. knots	220.8 knots	70.17 kN	9726 m	2759 ft	3.88 °	1513 ft/min	-5.5 dB _A
Gain	20. knots	22. knots	-1.68 kN	1842 m	410 ft	0. °	151 ft/min	-0.5 dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	220.8 knots	70.17 kN	9726 m	2759 ft	3.49 °	1361 ft/min	-5.5 dB _A
End	300. knots	324.4 knots	63.6 kN	22239 m	5261 ft	3.49 °	2000 ft/min	-7. dB _A
Gain	88. knots	103.6 knots	-6.57 kN	12513 m	2502 ft	0. °	639 ft/min	-1.5 dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	324.4 knots	63.6 kN	22239 m	5261 ft	4.78 °	2738 ft/min	-7. dB _A
End	300. knots	380.1 knots	75.96 kN	58957 m	15328 ft	4.78 °	3208 ft/min	-4.5 dB _A
Gain	0. knots	55.7 knots	12.36 kN	36718 m	10067 ft	0. °	470 ft/min	2.5 dB _A



NADP1-UNL

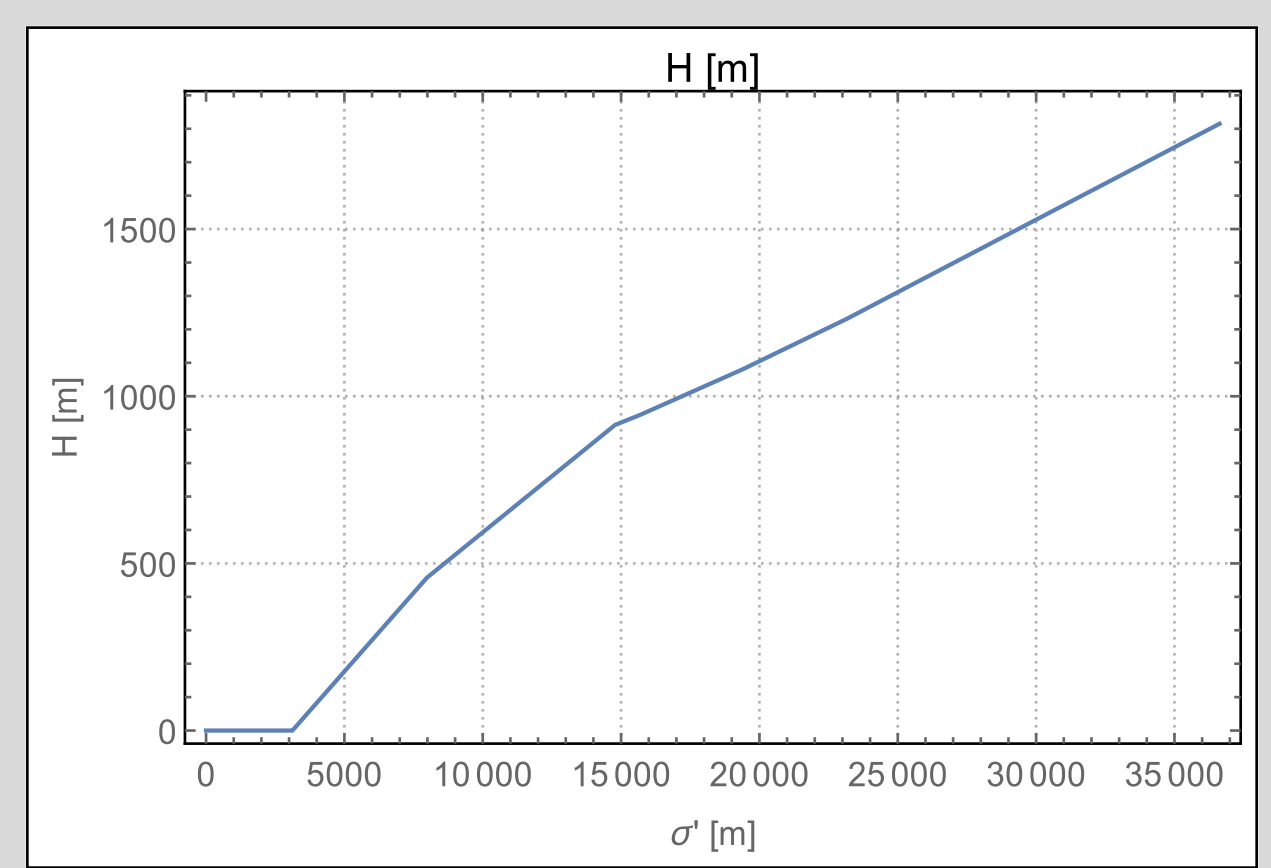
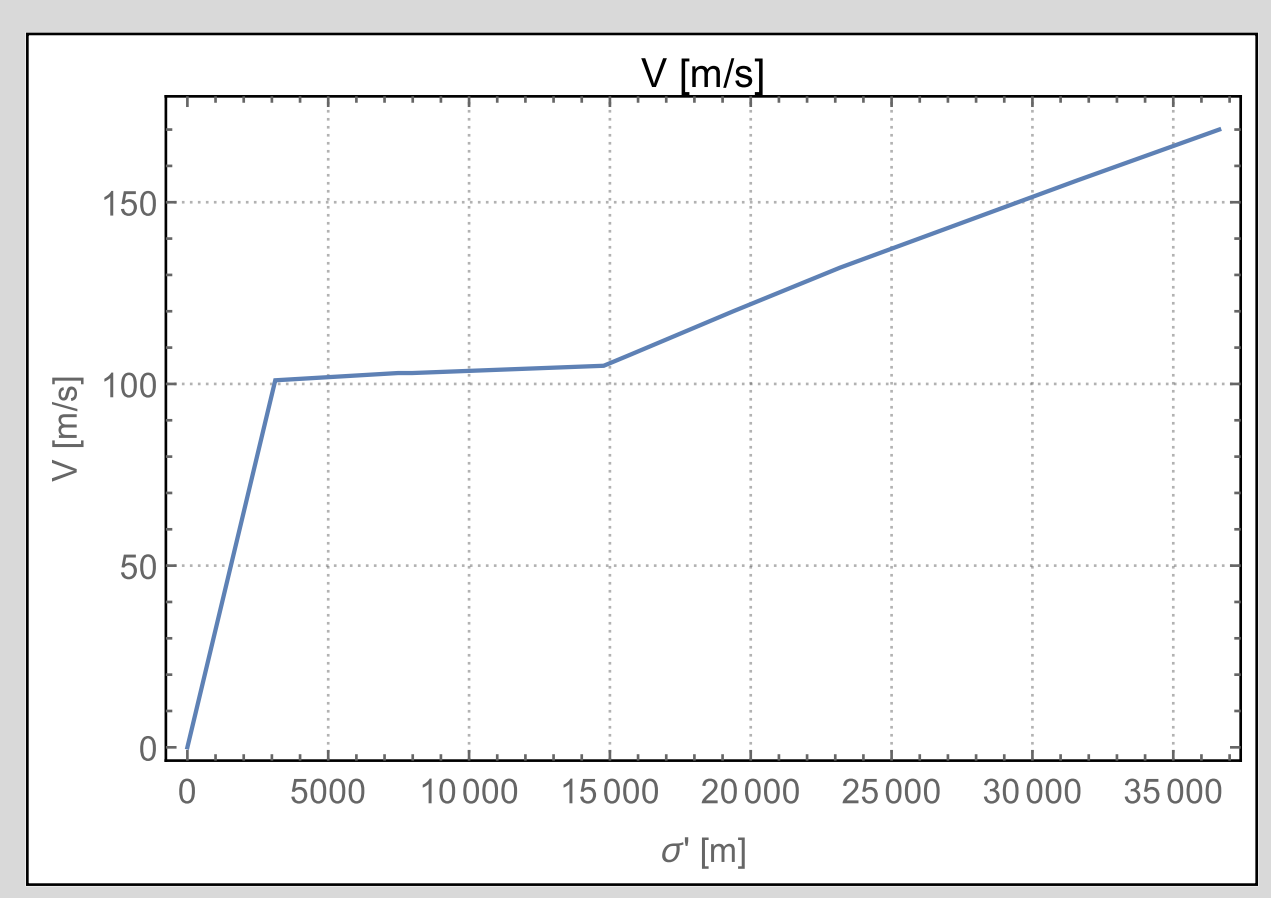
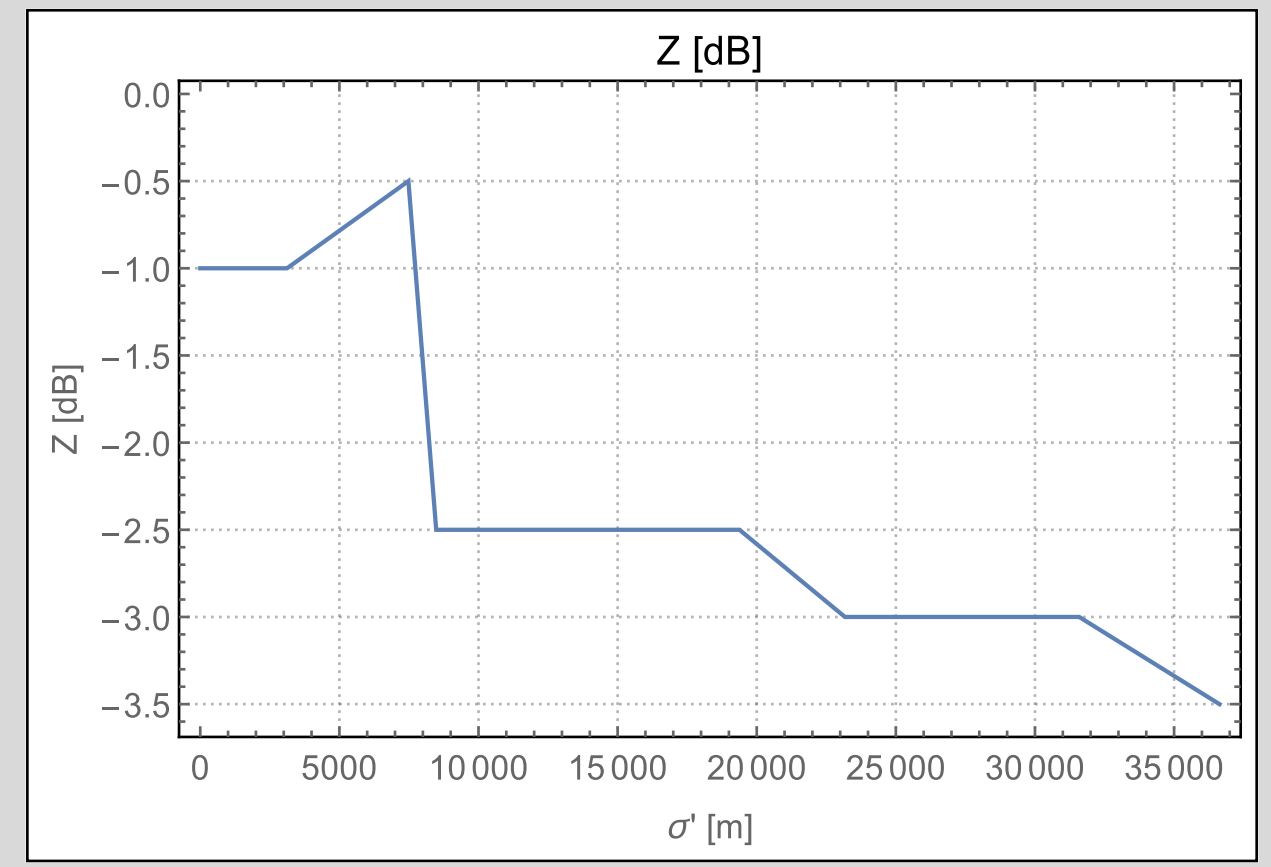
747400 100% MTOM

Fixpunktprofil nach AzB

σ' [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
σ' [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	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	227. kN	0 m	328 ft	0.°	0 ft/min	-1. dB _A
End	195. knots	195.9 knots	182.78 kN	3116 m	328 ft	0.°	0 ft/min	-1. dB _A
Gain	195. knots	195.9 knots	-44.22 kN	3116 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	195.9 knots	182.78 kN	3116 m	328 ft	5.37°	1857 ft/min	-1. dB _A
End	195. knots	200.3 knots	186.64 kN	7978 m	1828 ft	5.37°	1898 ft/min	-0.5 dB _A
Gain	0. knots	4.4 knots	3.86 kN	4862 m	1500 ft	0.°	41 ft/min	0.5 dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	200.3 knots	164.63 kN	7978 m	1828 ft	3.85°	1362 ft/min	-2.5 dB _A
End	195. knots	204.9 knots	168.87 kN	14779 m	3328 ft	3.85°	1393 ft/min	-2.5 dB _A
Gain	0. knots	4.6 knots	4.24 kN	6801 m	1500 ft	0.°	31 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	204.9 knots	168.87 kN	14779 m	3328 ft	1.91°	691 ft/min	-2.5 dB _A
End	200. knots	210.4 knots	168.21 kN	15711 m	3430 ft	1.91°	710 ft/min	-2.5 dB _A
Gain	5. knots	5.5 knots	-0.66 kN	932 m	102 ft	0.°	19 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	210.4 knots	168.21 kN	15711 m	3430 ft	2.1°	781 ft/min	-2.5 dB _A
End	220. knots	232.9 knots	165.67 kN	19376 m	3871 ft	2.1°	865 ft/min	-2.5 dB _A
Gain	20. knots	22.5 knots	-2.54 kN	3665 m	441 ft	0.°	84 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	232.9 knots	165.67 kN	19376 m	3871 ft	2.3°	947 ft/min	-2.5 dB _A
End	240. knots	256.1 knots	163.29 kN	23172 m	4371 ft	2.3°	1041 ft/min	-3. dB _A
Gain	20. knots	23.2 knots	-2.38 kN	3796 m	500 ft	0.°	94 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	256.1 knots	163.29 kN	23172 m	4371 ft	2.48°	1122 ft/min	-3. dB _A
End	280. knots	304.2 knots	159.09 kN	31587 m	5567 ft	2.48°	1333 ft/min	-3. dB _A
Gain	40. knots	48.1 knots	-4.2 kN	8415 m	1196 ft	0.°	211 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	304.2 knots	159.09 kN	31587 m	5567 ft	2.47°	1328 ft/min	-3. dB _A
End	300. knots	329.5 knots	157.32 kN	36629 m	6282 ft	2.47°	1438 ft/min	-3.5 dB _A
Gain	20. knots	25.3 knots	-1.77 kN	5042 m	715 ft	0.°	110 ft/min	-0.5 dB _A

Segment 9 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	329.5 knots	157.32 kN	36629 m	6282 ft	3.76°	2188 ft/min	-3.5 dB _A
End	300. knots	380.1 knots	182.9 kN	78629 m	15328 ft	3.76°	2524 ft/min	-1. dB _A
Gain	0. knots	50.6 knots	25.58 kN	42000 m	9046 ft	0.°	336 ft/min	2.5 dB _A

NADP1-UNL

747400 75% MTOM

Fixpunktprofil nach AzB

σ' [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
17780	-4,5	130	1342
28310	-5	171	1980
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 28310	0	0	0,089

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 Flaps UP Speed	ACC	0	T_01	MaxClimb	235.	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	182. kN	0 m	328 ft	0. °	0 ft/min	-4.5 dB _A
End	170. knots	170.8 knots	151.09 kN	2147 m	328 ft	0. °	0 ft/min	-4.5 dB _A
Gain	170. knots	170.8 knots	-30.91 kN	2147 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	151.09 kN	2147 m	328 ft	6.4 °	1928 ft/min	-4.5 dB _A
End	170. knots	174.6 knots	154.19 kN	6222 m	1828 ft	6.4 °	1971 ft/min	-4.5 dB _A
Gain	0. knots	3.8 knots	3.1 kN	4075 m	1500 ft	0. °	43 ft/min	0. dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	174.6 knots	154.19 kN	6222 m	1828 ft	6.03 °	1858 ft/min	-4.5 dB _A
End	170. knots	178.6 knots	158.05 kN	10548 m	3328 ft	6.03 °	1900 ft/min	-4. dB _A
Gain	0. knots	4. knots	3.86 kN	4326 m	1500 ft	0. °	42 ft/min	0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	178.6 knots	158.05 kN	10548 m	3328 ft	3.02 °	953 ft/min	-4. dB _A
End	175. knots	184.1 knots	157.42 kN	11056 m	3416 ft	3.02 °	982 ft/min	-4. dB _A
Gain	5. knots	5.5 knots	-0.63 kN	508 m	88 ft	0. °	29 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	175. knots	184.1 knots	157.42 kN	11056 m	3416 ft	3.2 °	1041 ft/min	-4. dB _A
End	195. knots	206.2 knots	154.95 kN	13141 m	3799 ft	3.2 °	1166 ft/min	-4.5 dB _A
Gain	20. knots	22.1 knots	-2.47 kN	2085 m	383 ft	0. °	125 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	206.2 knots	154.95 kN	13141 m	3799 ft	3.38 °	1232 ft/min	-4.5 dB _A
End	215. knots	228.9 knots	152.62 kN	15394 m	4236 ft	3.38 °	1367 ft/min	-4.5 dB _A
Gain	20. knots	22.7 knots	-2.33 kN	2253 m	437 ft	0. °	135 ft/min	0. dB _A

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

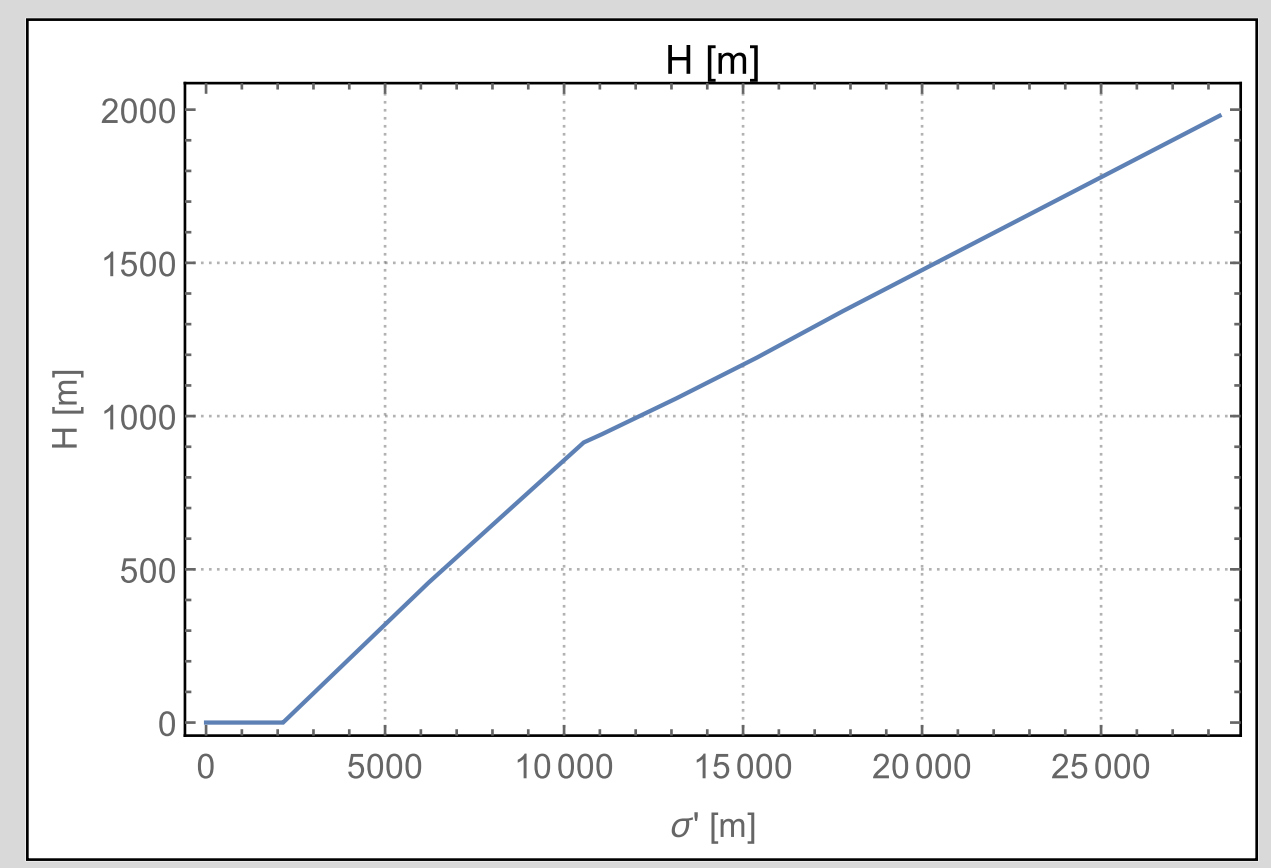
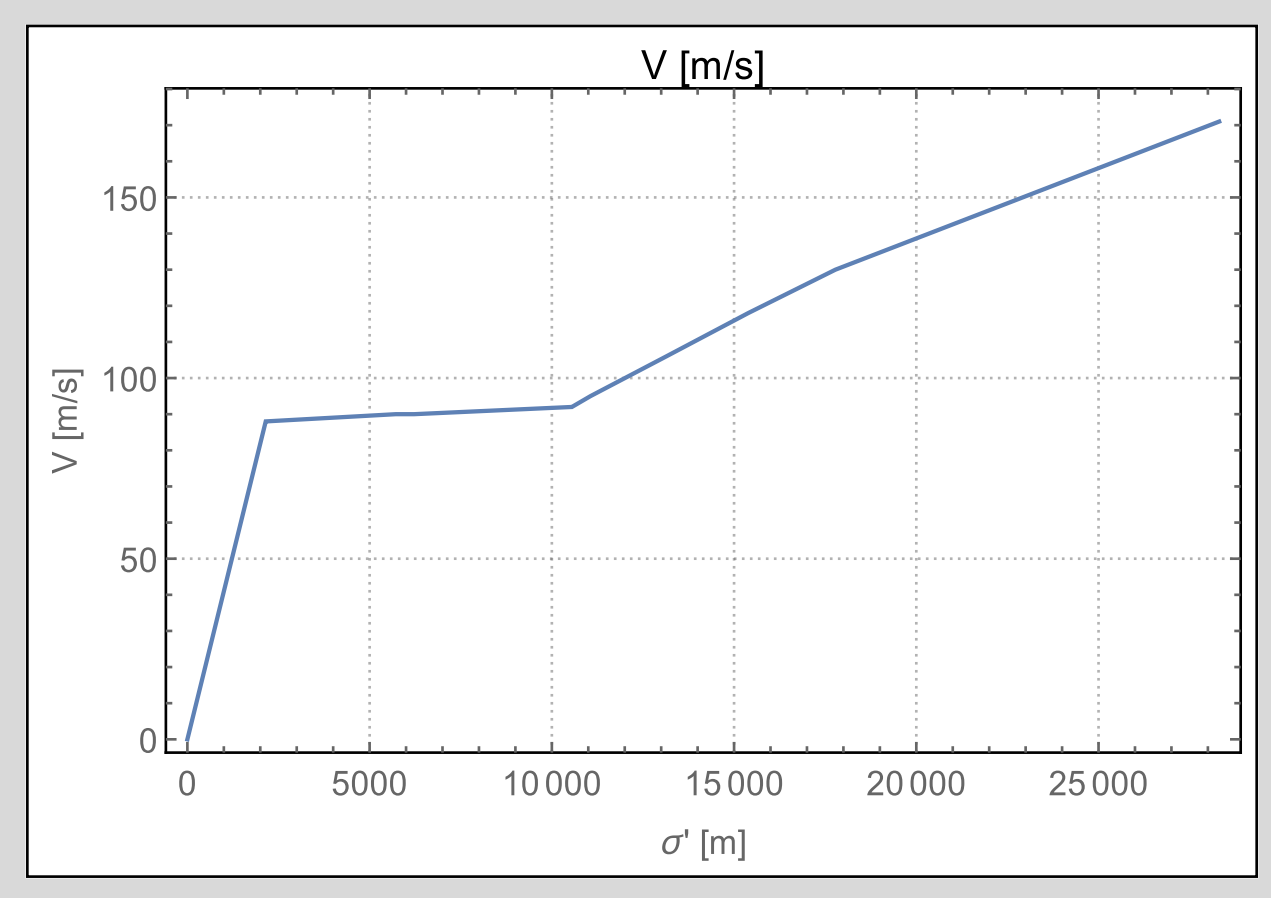
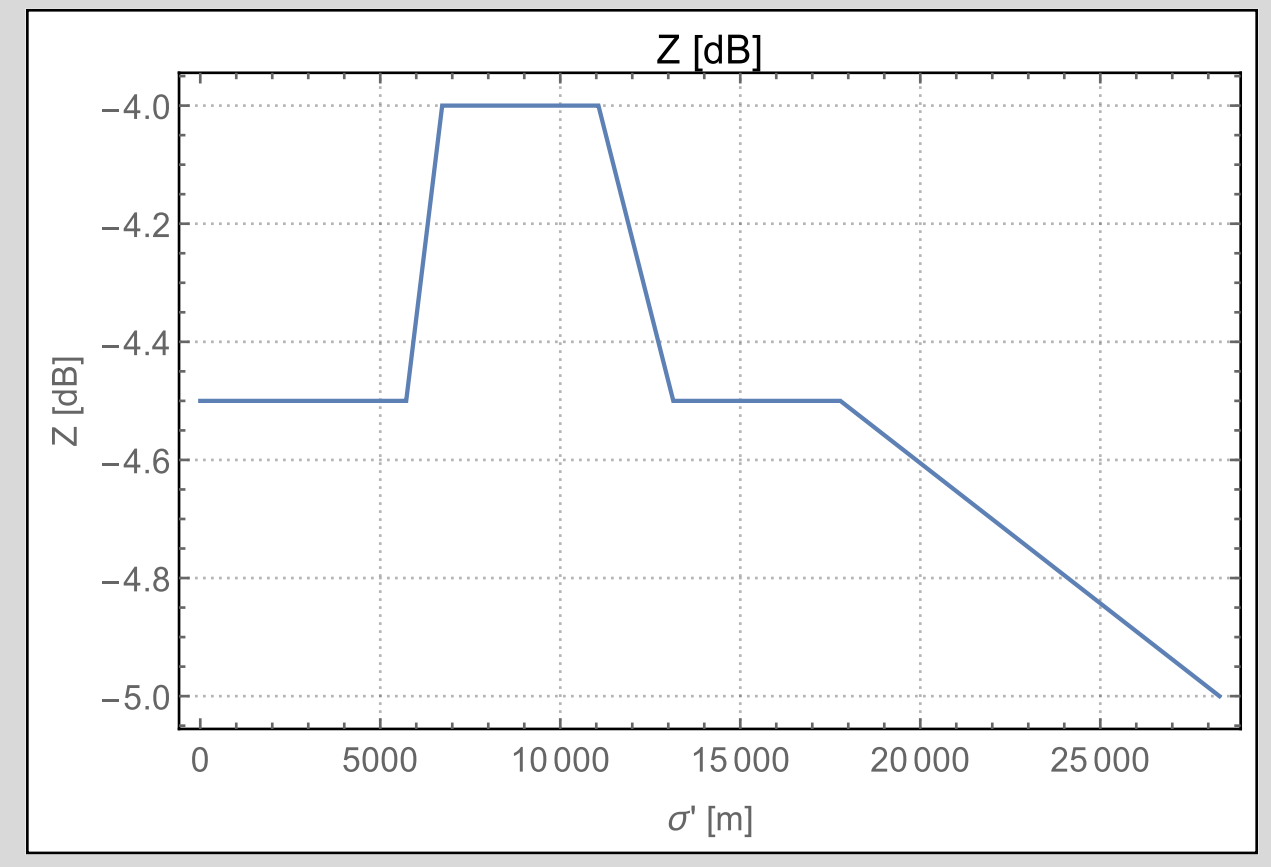
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	215. knots	228.9 knots	152.62 kN	15394 m	4236 ft	3.61 °	1460 ft/min	-4.5 dB _A
End	235. knots	252.1 knots	150.45 kN	17785 m	4731 ft	3.61 °	1608 ft/min	-4.5 dB _A
Gain	20. knots	23.2 knots	-2.17 kN	2391 m	495 ft	0. °	148 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	235. knots	252.1 knots	150.45 kN	17785 m	4731 ft	3.47 °	1545 ft/min	-4.5 dB _A
End	300. knots	332.3 knots	144.61 kN	28314 m	6823 ft	3.47 °	2037 ft/min	-5. dB _A
Gain	65. knots	80.2 knots	-5.84 kN	10529 m	2092 ft	0. °	492 ft/min	-0.5 dB _A

Segment 9 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	332.3 knots	144.62 kN	28314 m	6823 ft	5.08 °	2979 ft/min	-5. dB _A
End	300. knots	380.1 knots	166.51 kN	57470 m	15328 ft	5.08 °	3408 ft/min	-3.5 dB _A
Gain	0. knots	47.8 knots	21.89 kN	29156 m	8505 ft	0. °	429 ft/min	1.5 dB _A



NADP2-10-UNL

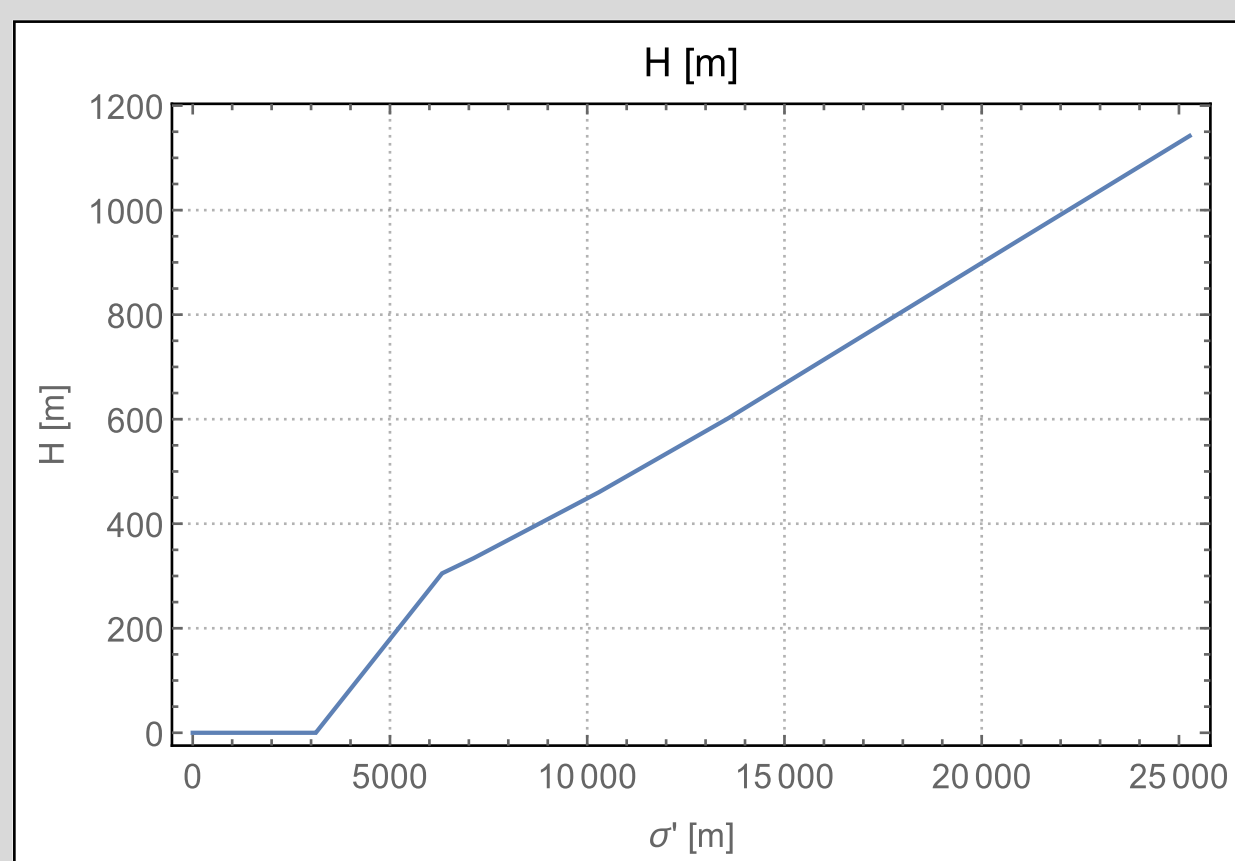
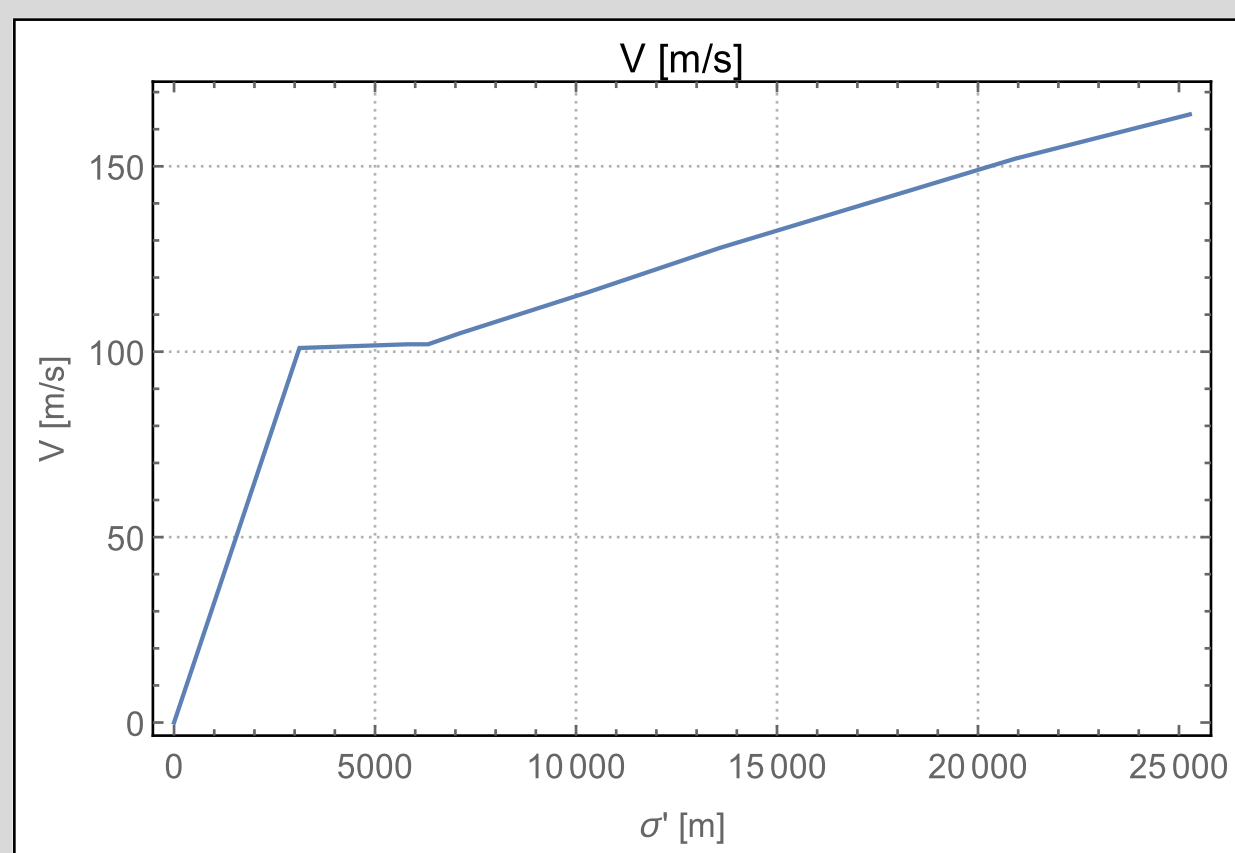
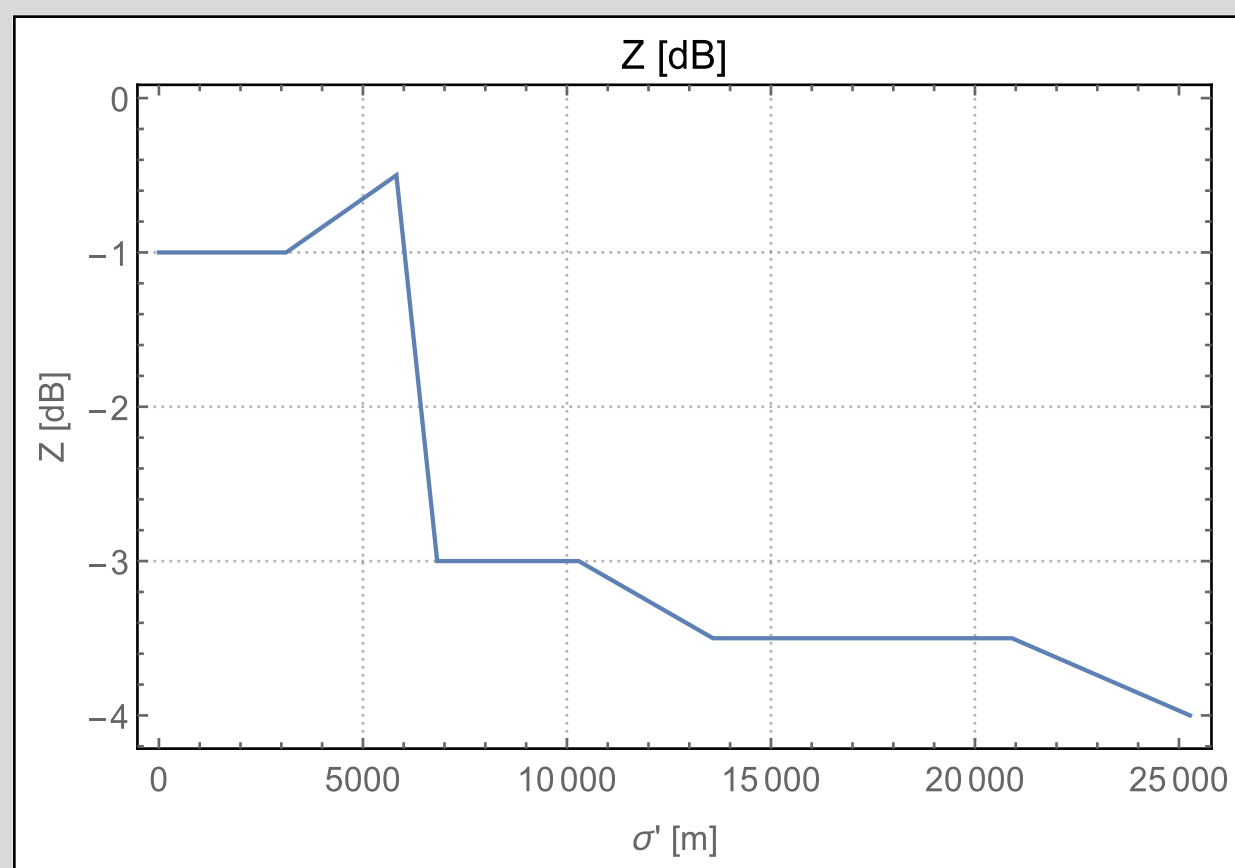
747400 100% MTOM

Fixpunktprofil nach AzB

σ' [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
13580	-3,5	128	602
20910	-3,5	152	941
25270	-4	164	1142
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 25270	0	0	0,069

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	200.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	10.	MaxClimb	220.	0.
5	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	240.	0.
6	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	280.	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	227. kN	0 m	328 ft	0. °	0 ft/min	-1. dB _A
End	195. knots	195.9 knots	182.78 kN	3116 m	328 ft	0. °	0 ft/min	-1. dB _A
Gain	195. knots	195.9 knots	-44.22 kN	3116 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	195.9 knots	182.78 kN	3116 m	328 ft	5.43 °	1878 ft/min	-1. dB _A
End	195. knots	198.8 knots	185.36 kN	6324 m	1328 ft	5.43 °	1905 ft/min	-0.5 dB _A
Gain	0. knots	2.9 knots	2.58 kN	3208 m	1000 ft	0. °	27 ft/min	0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	198.8 knots	163.21 kN	6324 m	1328 ft	2.09 °	734 ft/min	-3. dB _A
End	200. knots	204.2 knots	162.54 kN	7124 m	1424 ft	2.09 °	754 ft/min	-3. dB _A
Gain	5. knots	5.4 knots	-0.67 kN	800 m	96 ft	0. °	20 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	204.2 knots	162.54 kN	7124 m	1424 ft	2.28 °	823 ft/min	-3. dB _A
End	220. knots	226.1 knots	159.92 kN	10291 m	1837 ft	2.28 °	911 ft/min	-3. dB _A
Gain	20. knots	21.9 knots	-2.62 kN	3167 m	413 ft	0. °	88 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	226.1 knots	159.91 kN	10291 m	1837 ft	2.47 °	986 ft/min	-3. dB _A
End	240. knots	248.2 knots	157.44 kN	13585 m	2304 ft	2.47 °	1083 ft/min	-3.5 dB _A
Gain	20. knots	22.1 knots	-2.47 kN	3294 m	467 ft	0. °	97 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	248.2 knots	157.44 kN	13585 m	2304 ft	2.65 °	1162 ft/min	-3.5 dB _A
End	280. knots	294.5 knots	153.01 kN	20913 m	3416 ft	2.65 °	1379 ft/min	-3.5 dB _A
Gain	40. knots	46.3 knots	-4.43 kN	7328 m	1112 ft	0. °	217 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	294.5 knots	153.01 kN	20913 m	3416 ft	2.64 °	1374 ft/min	-3.5 dB _A
End	300. knots	318.7 knots	151.08 kN	25271 m	4075 ft	2.64 °	1486 ft/min	-4. dB _A
Gain	20. knots	24.2 knots	-1.93 kN	4358 m	659 ft	0. °	112 ft/min	-0.5 dB _A

Segment 8 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	318.7 knots	151.08 kN	25271 m	4075 ft	3.96 °	2229 ft/min	-4. dB _A
End	300. knots	380.1 knots	182.9 kN	74793 m	15328 ft	3.96 °	2658 ft/min	-1. dB _A
Gain	0. knots	61.4 knots	31.82 kN	49522 m	11253 ft	0. °	429 ft/min	3. dB _A

NADP2-10-UNL

747400 75% MTOM

Fixpunktprofil nach AzB

σ' [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
11180	-5	126	705
20330	-5,5	165	1293
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 20330	0	0	0,094

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 Flaps UP Speed	ACC	0	T_01	MaxClimb	235.	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	182. kN	0 m	328 ft	0. °	0 ft/min	-4.5 dB _A
End	170. knots	170.8 knots	151.09 kN	2147 m	328 ft	0. °	0 ft/min	-4.5 dB _A
Gain	170. knots	170.8 knots	-30.91 kN	2147 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	151.09 kN	2147 m	328 ft	6.46 °	1946 ft/min	-4.5 dB _A
End	170. knots	173.3 knots	153.16 kN	4837 m	1328 ft	6.46 °	1975 ft/min	-4.5 dB _A
Gain	0. knots	2.5 knots	2.07 kN	2690 m	1000 ft	0. °	29 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	173.3 knots	153.16 kN	4837 m	1328 ft	3.27 °	1001 ft/min	-4.5 dB _A
End	175. knots	178.7 knots	152.51 kN	5280 m	1411 ft	3.27 °	1032 ft/min	-4.5 dB _A
Gain	5. knots	5.4 knots	-0.65 kN	443 m	83 ft	0. °	31 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	175. knots	178.7 knots	152.51 kN	5280 m	1411 ft	3.44 °	1086 ft/min	-4.5 dB _A
End	195. knots	200.2 knots	149.98 kN	7104 m	1771 ft	3.44 °	1216 ft/min	-4.5 dB _A
Gain	20. knots	21.5 knots	-2.53 kN	1824 m	360 ft	0. °	130 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	200.2 knots	149.98 kN	7104 m	1771 ft	3.61 °	1276 ft/min	-4.5 dB _A
End	215. knots	222. knots	147.58 kN	9078 m	2180 ft	3.61 °	1416 ft/min	-5. dB _A
Gain	20. knots	21.8 knots	-2.4 kN	1974 m	409 ft	0. °	140 ft/min	-0.5 dB _A

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

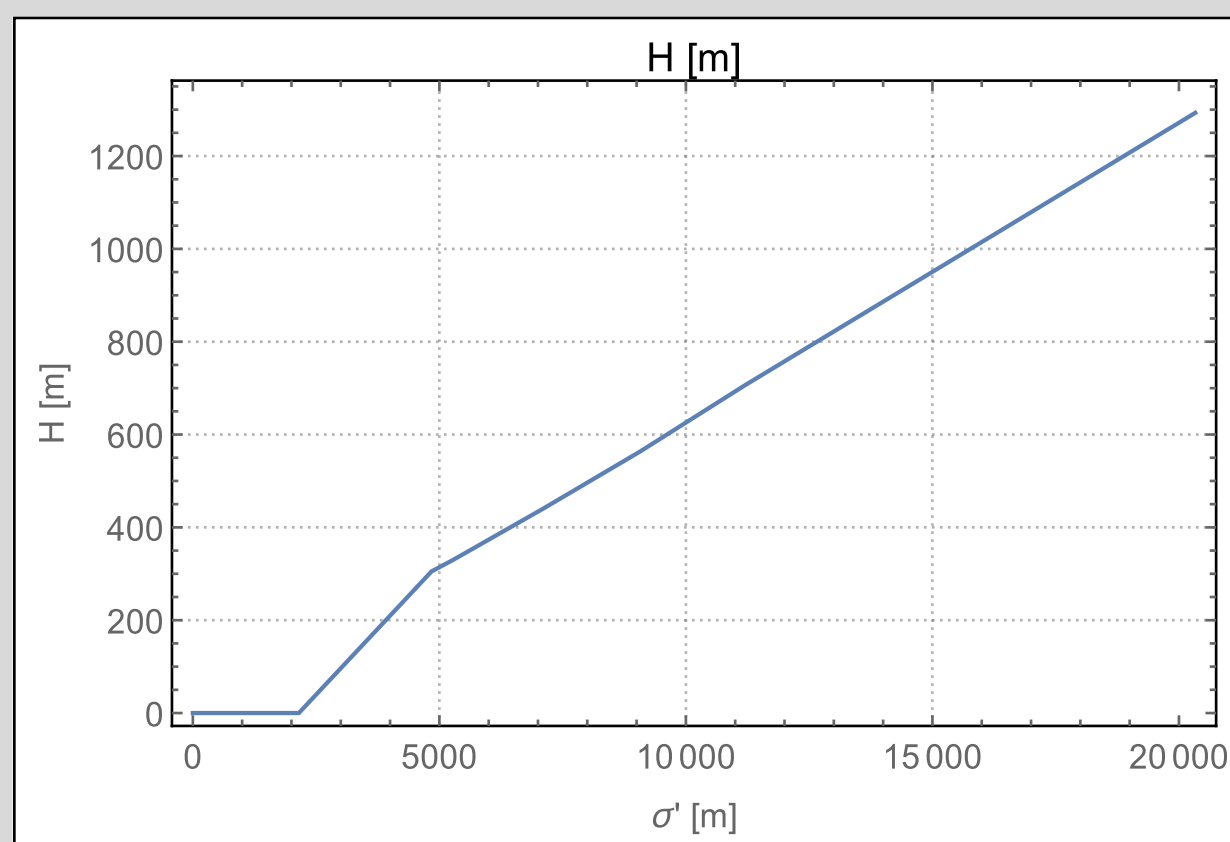
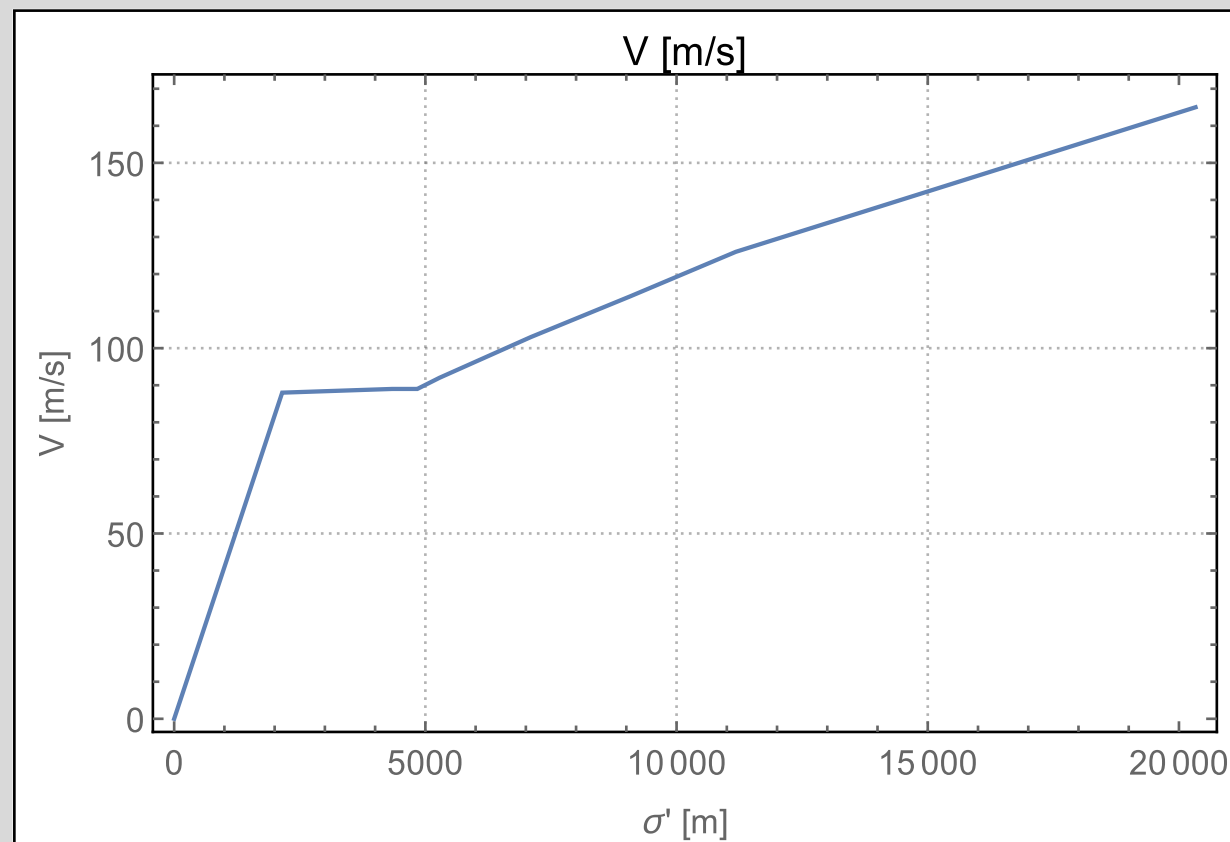
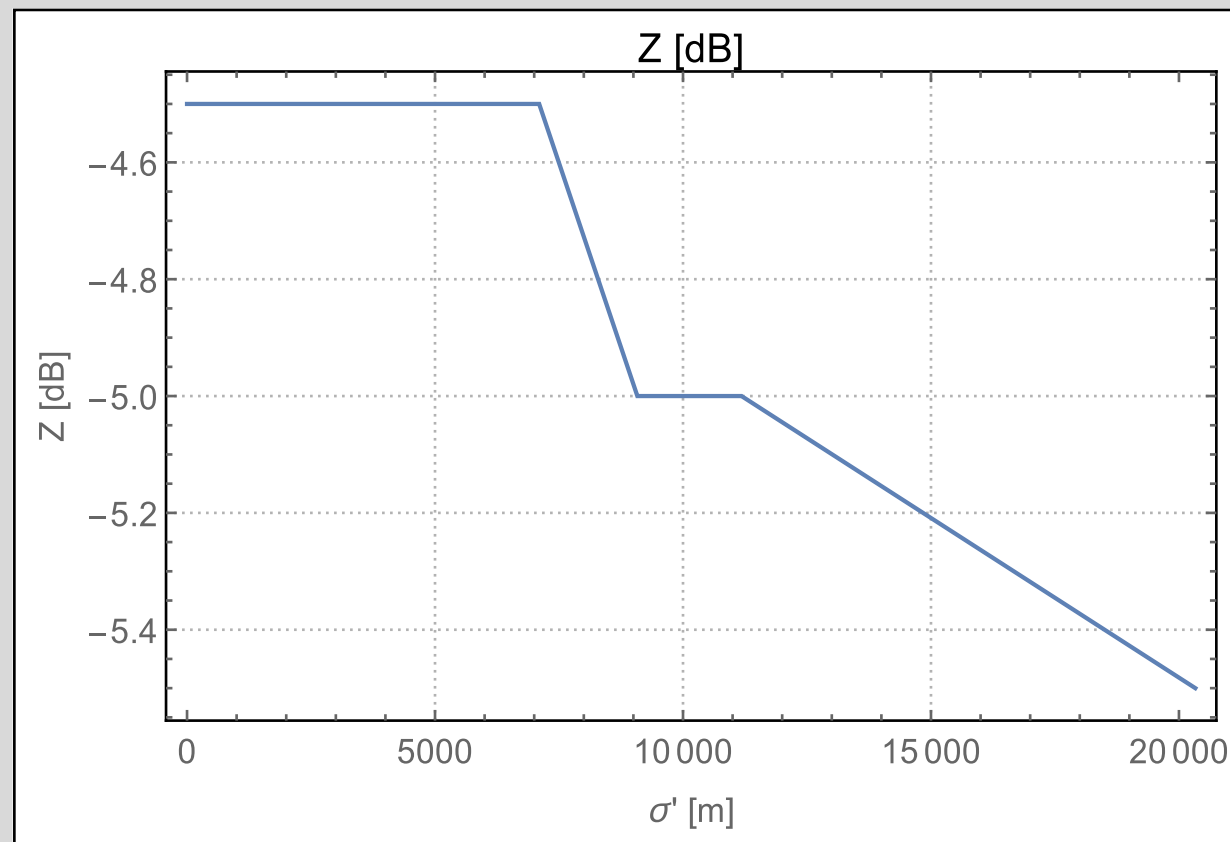
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	215. knots	222. knots	147.58 kN	9078 m	2180 ft	3.84 °	1506 ft/min	-5. dB _A
End	235. knots	244.3 knots	145.31 kN	11178 m	2642 ft	3.84 °	1657 ft/min	-5. dB _A
Gain	20. knots	22.3 knots	-2.27 kN	2100 m	462 ft	0. °	151 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	235. knots	244.3 knots	145.31 kN	11178 m	2642 ft	3.68 °	1588 ft/min	-5. dB _A
End	300. knots	321.1 knots	139.05 kN	20331 m	4571 ft	3.68 °	2087 ft/min	-5.5 dB _A
Gain	65. knots	76.8 knots	-6.26 kN	9153 m	1929 ft	0. °	499 ft/min	-0.5 dB _A

Segment 8 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	321.1 knots	139.05 kN	20331 m	4571 ft	5.34 °	3026 ft/min	-5.5 dB _A
End	300. knots	380.1 knots	166.79 kN	55376 m	15328 ft	5.34 °	3582 ft/min	-3.5 dB _A
Gain	0. knots	59. knots	27.74 kN	35045 m	10757 ft	0. °	556 ft/min	2. dB _A



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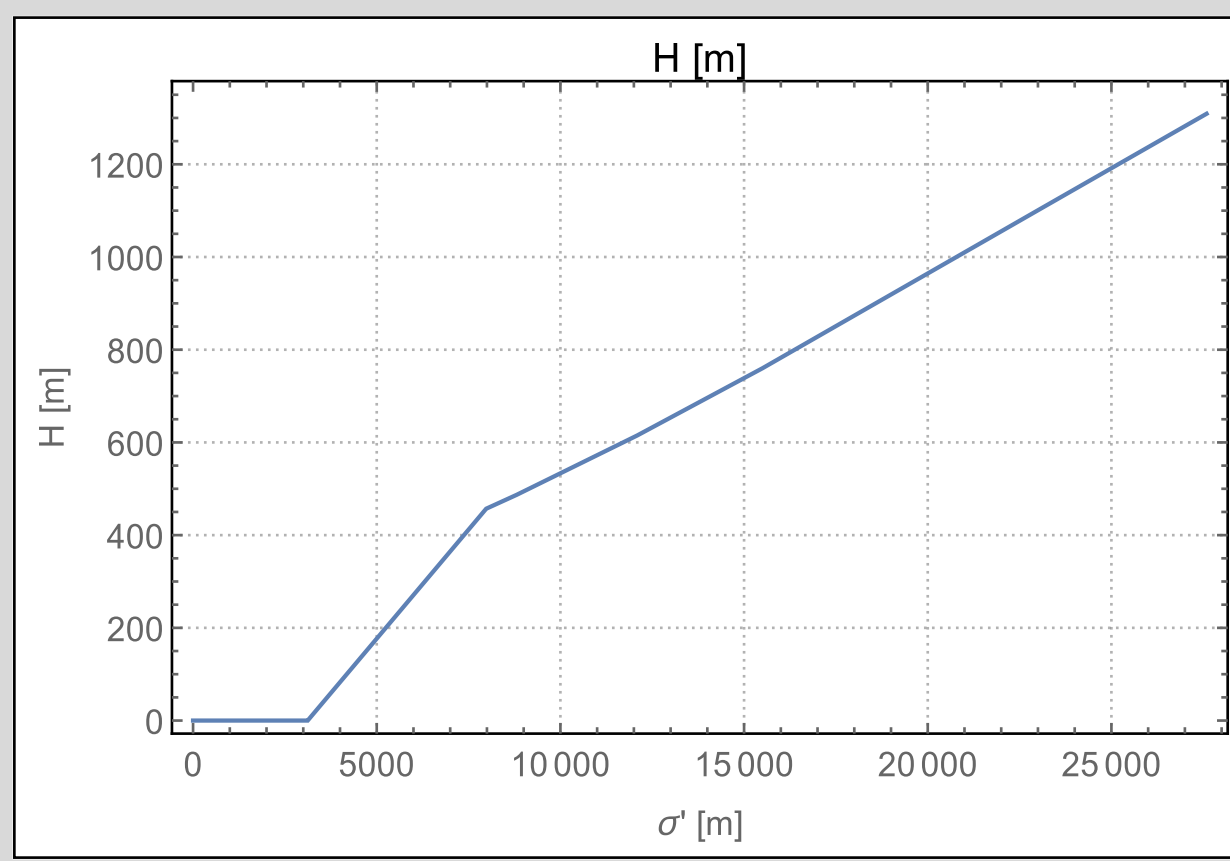
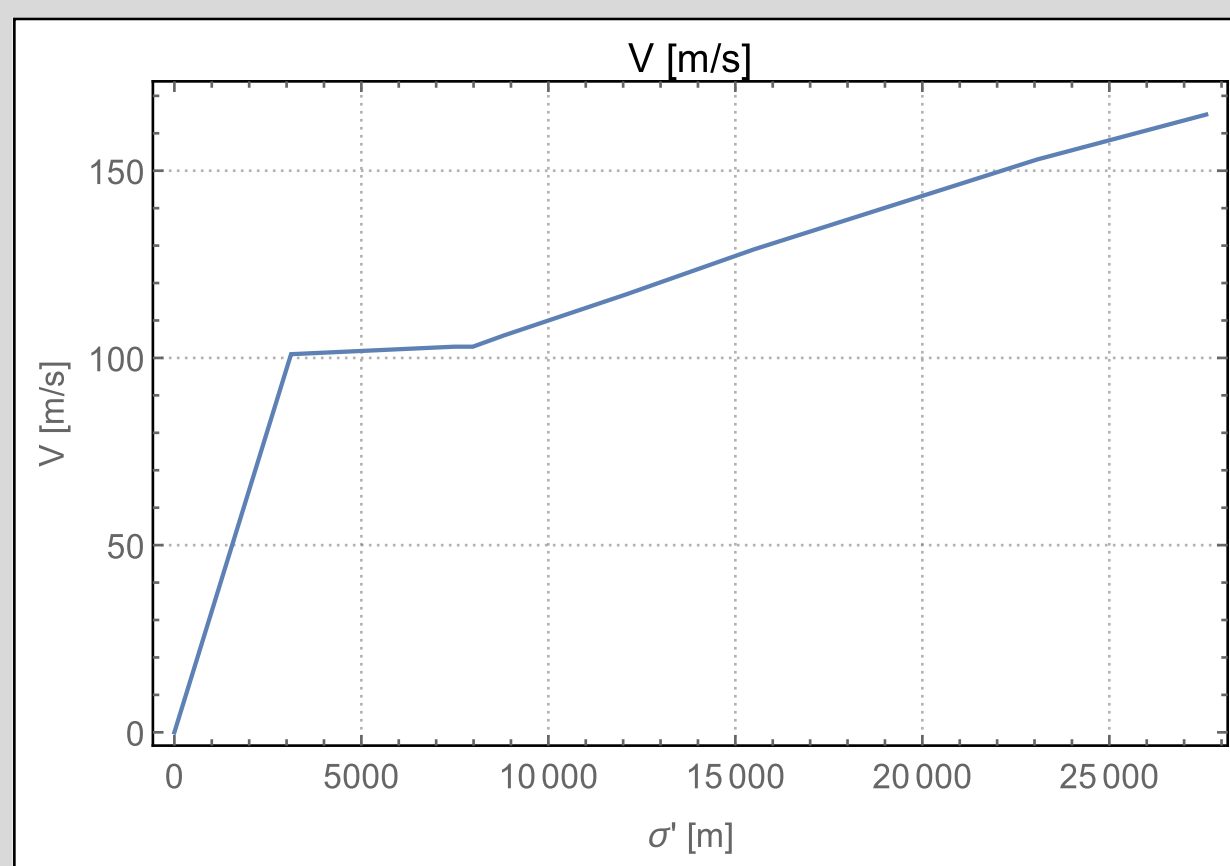
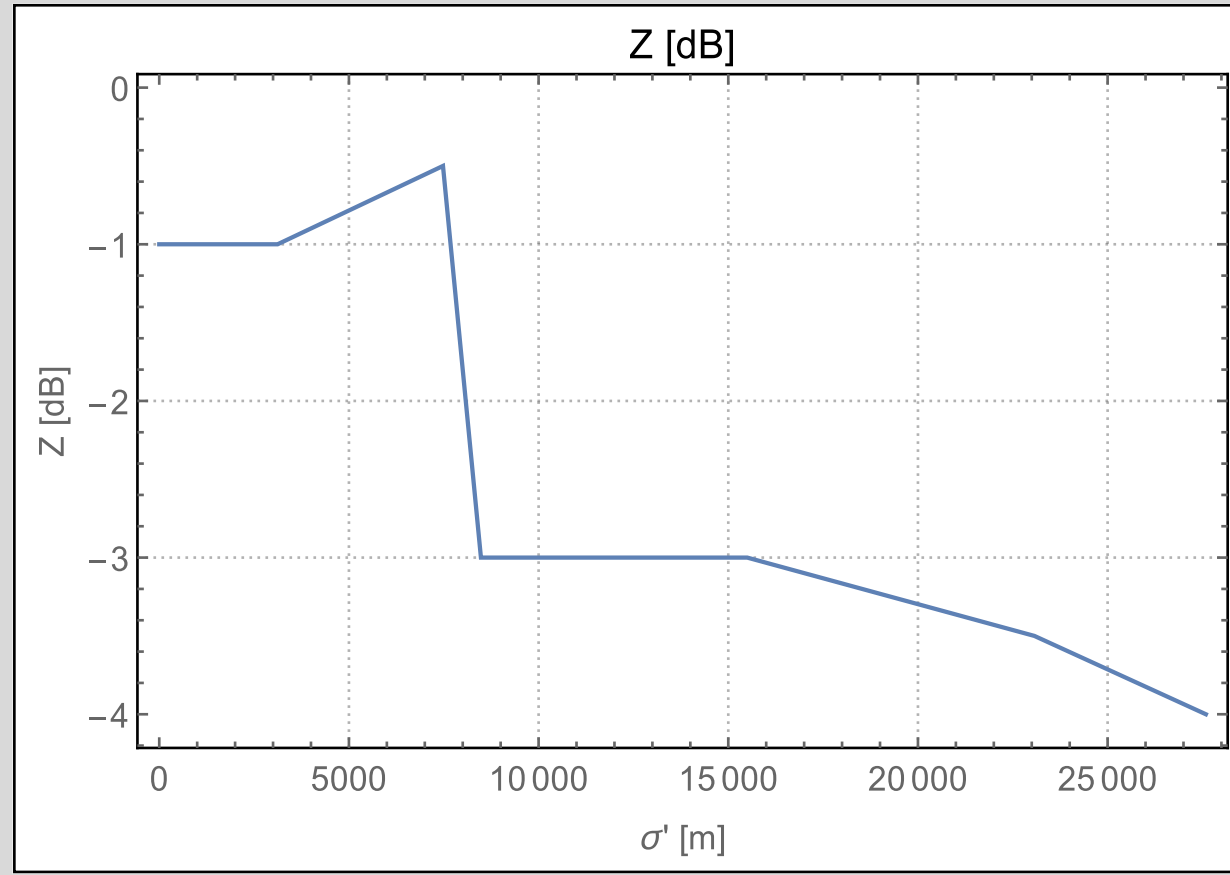
747400 100% MTOM

Fixpunktprofil nach AzB

σ' [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
15500	-3	129	760
23070	-3,5	153	1104
27590	-4	165	1309
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 27590	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	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	Accelerate to Flaps 1 Speed	ACC	0	T_05	MaxClimb	240.	0.
6	Accelerate to Flaps UP Speed	ACC	0	T_01	MaxClimb	280.	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	227. kN	0 m	328 ft	0. °	0 ft/min	-1. dB _A
End	195. knots	195.9 knots	182.78 kN	3116 m	328 ft	0. °	0 ft/min	-1. dB _A
Gain	195. knots	195.9 knots	-44.22 kN	3116 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	195.9 knots	182.78 kN	3116 m	328 ft	5.37 °	1857 ft/min	-1. dB _A
End	195. knots	200.3 knots	186.64 kN	7978 m	1828 ft	5.37 °	1898 ft/min	-0.5 dB _A
Gain	0. knots	4.4 knots	3.86 kN	4862 m	1500 ft	0. °	41 ft/min	0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	200.3 knots	164.63 kN	7978 m	1828 ft	2.04 °	722 ft/min	-2.5 dB _A
End	200. knots	205.7 knots	163.96 kN	8807 m	1925 ft	2.04 °	742 ft/min	-3. dB _A
Gain	5. knots	5.4 knots	-0.67 kN	829 m	97 ft	0. °	20 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	205.7 knots	163.95 kN	8807 m	1925 ft	2.23 °	811 ft/min	-3. dB _A
End	220. knots	227.8 knots	161.35 kN	12088 m	2345 ft	2.23 °	897 ft/min	-3. dB _A
Gain	20. knots	22.1 knots	-2.6 kN	3281 m	420 ft	0. °	86 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.8 knots	161.35 kN	12088 m	2345 ft	2.43 °	978 ft/min	-3. dB _A
End	240. knots	250.2 knots	158.9 kN	15500 m	2820 ft	2.43 °	1074 ft/min	-3. dB _A
Gain	20. knots	22.4 knots	-2.45 kN	3412 m	475 ft	0. °	96 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	250.2 knots	158.9 kN	15500 m	2820 ft	2.61 °	1154 ft/min	-3. dB _A
End	280. knots	296.8 knots	154.52 kN	23072 m	3951 ft	2.61 °	1369 ft/min	-3.5 dB _A
Gain	40. knots	46.6 knots	-4.38 kN	7572 m	1131 ft	0. °	215 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	296.8 knots	154.52 kN	23072 m	3951 ft	2.6 °	1364 ft/min	-3.5 dB _A
End	300. knots	321.3 knots	152.63 kN	27593 m	4624 ft	2.6 °	1476 ft/min	-4. dB _A
Gain	20. knots	24.5 knots	-1.89 kN	4521 m	673 ft	0. °	112 ft/min	-0.5 dB _A

Segment 8 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	321.3 knots	152.63 kN	27593 m	4624 ft	3.91 °	2219 ft/min	-4. dB _A
End	300. knots	380.1 knots	182.9 kN	75352 m	15328 ft	3.91 °	2625 ft/min	-1. dB _A
Gain	0. knots	58.8 knots	30.27 kN	47759 m	10704 ft	0. °	406 ft/min	3. dB _A

NADP2-15-UNL

747400 75% MTOM

Fixpunktprofil nach AzB

σ' [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
12790	-5	127	865
22280	-5,5	167	1465
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 22280	0	0	0,092

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 Flaps UP Speed	ACC	0	T_01	MaxClimb	235.	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	182. kN	0 m	328 ft	0. °	0 ft/min	-4.5 dB _A
End	170. knots	170.8 knots	151.09 kN	2147 m	328 ft	0. °	0 ft/min	-4.5 dB _A
Gain	170. knots	170.8 knots	-30.91 kN	2147 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	170.8 knots	151.09 kN	2147 m	328 ft	6.4 °	1928 ft/min	-4.5 dB _A
End	170. knots	174.6 knots	154.19 kN	6222 m	1828 ft	6.4 °	1971 ft/min	-4.5 dB _A
Gain	0. knots	3.8 knots	3.1 kN	4075 m	1500 ft	0. °	43 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	170. knots	174.6 knots	154.19 kN	6222 m	1828 ft	3.19 °	984 ft/min	-4.5 dB _A
End	175. knots	180. knots	153.54 kN	6681 m	1912 ft	3.19 °	1014 ft/min	-4.5 dB _A
Gain	5. knots	5.4 knots	-0.65 kN	459 m	84 ft	0. °	30 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	175. knots	180. knots	153.54 kN	6681 m	1912 ft	3.38 °	1075 ft/min	-4.5 dB _A
End	195. knots	201.7 knots	151.03 kN	8569 m	2278 ft	3.38 °	1204 ft/min	-4.5 dB _A
Gain	20. knots	21.7 knots	-2.51 kN	1888 m	366 ft	0. °	129 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	195. knots	201.7 knots	151.03 kN	8569 m	2278 ft	3.55 °	1264 ft/min	-4.5 dB _A
End	215. knots	223.7 knots	148.65 kN	10613 m	2694 ft	3.55 °	1403 ft/min	-5. dB _A
Gain	20. knots	22. knots	-2.38 kN	2044 m	416 ft	0. °	139 ft/min	-0.5 dB _A

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

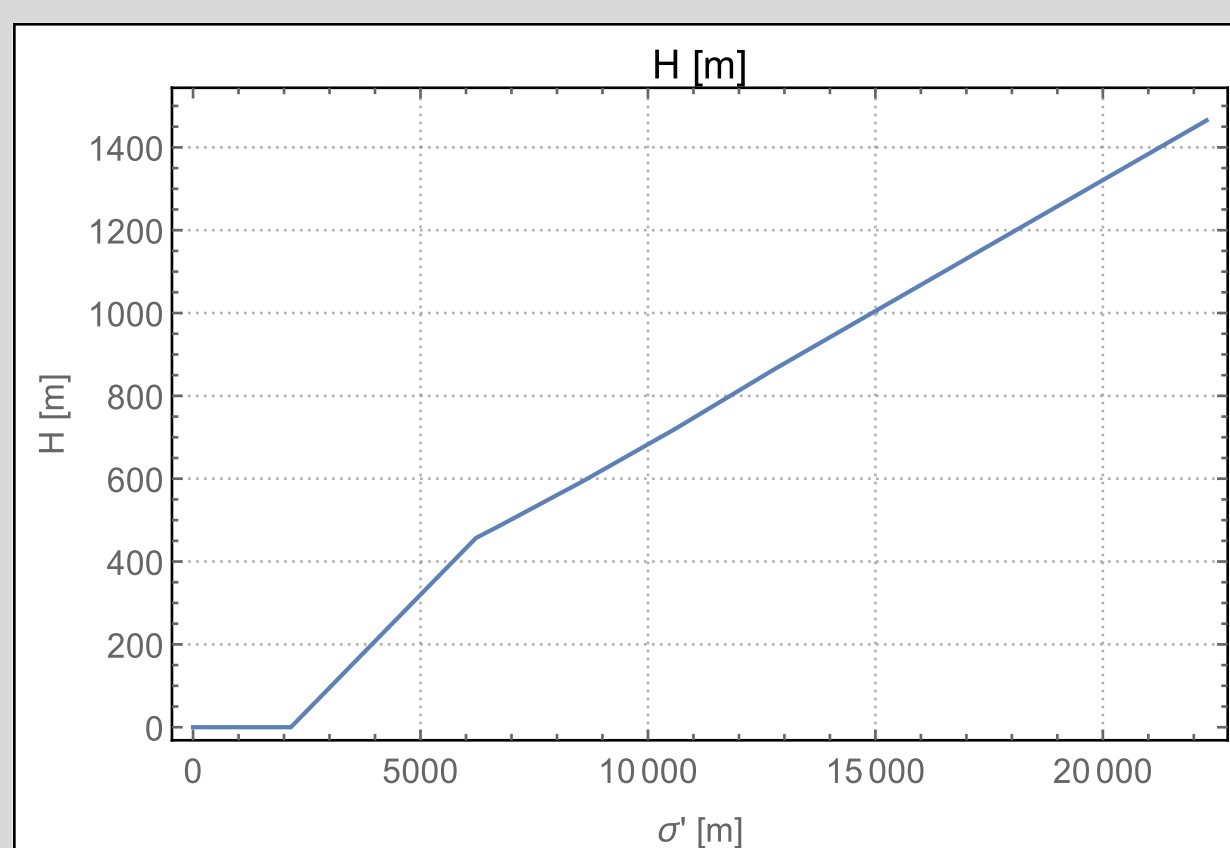
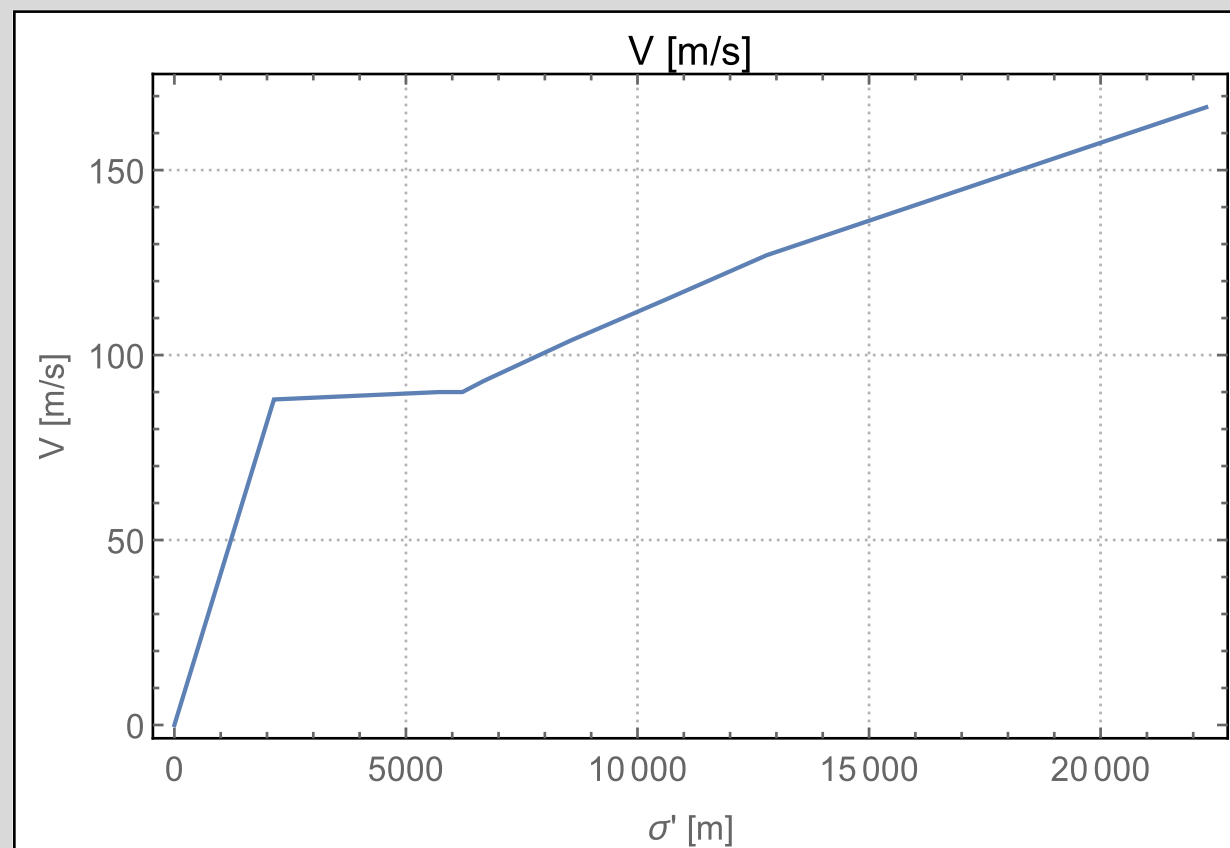
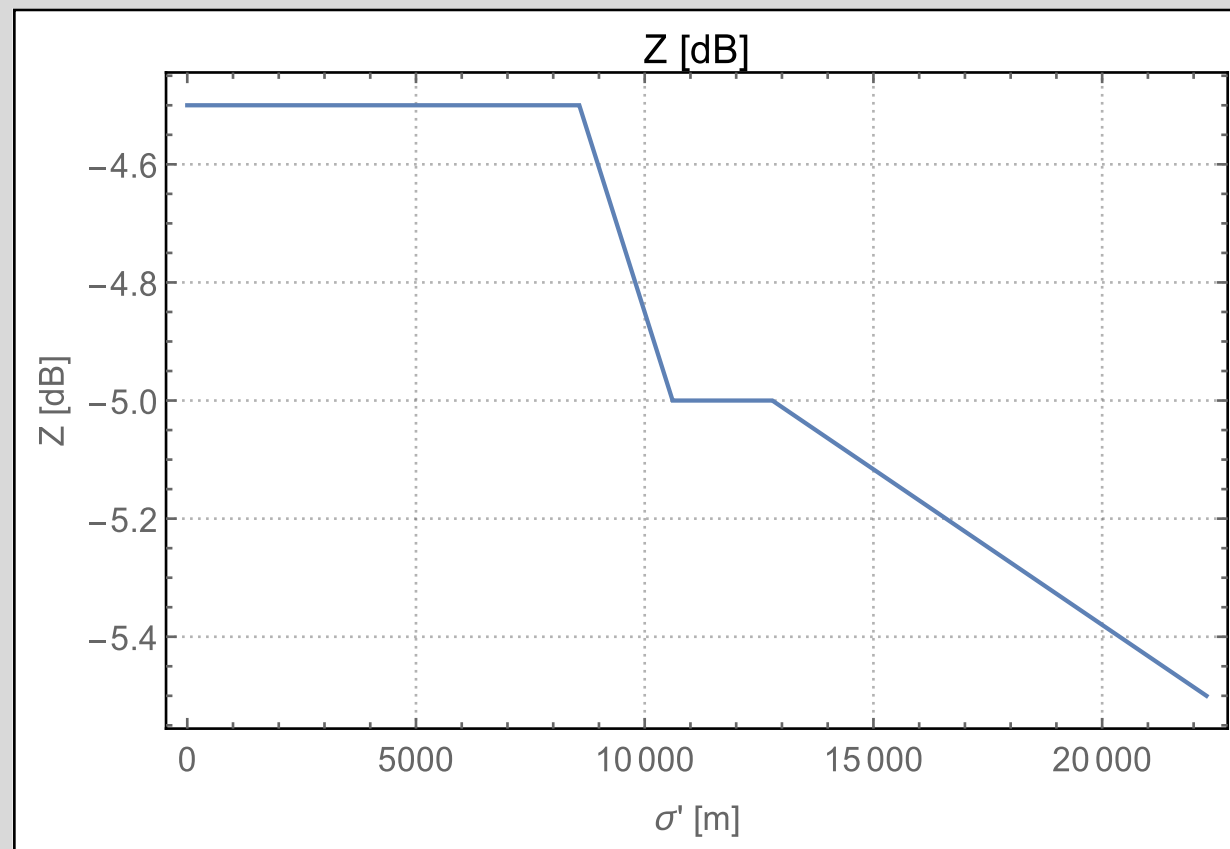
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	215. knots	223.7 knots	148.65 kN	10613 m	2694 ft	3.78 °	1493 ft/min	-5. dB _A
End	235. knots	246.2 knots	146.41 kN	12787 m	3165 ft	3.78 °	1644 ft/min	-5. dB _A
Gain	20. knots	22.5 knots	-2.24 kN	2174 m	471 ft	0. °	151 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	235. knots	246.2 knots	146.42 kN	12787 m	3165 ft	3.62 °	1575 ft/min	-5. dB _A
End	300. knots	323.9 knots	140.27 kN	22282 m	5135 ft	3.62 °	2071 ft/min	-5.5 dB _A
Gain	65. knots	77.7 knots	-6.15 kN	9495 m	1970 ft	0. °	496 ft/min	-0.5 dB _A

Segment 8 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	323.9 knots	140.27 kN	22282 m	5135 ft	5.27 °	3012 ft/min	-5.5 dB _A
End	300. knots	380.1 knots	166.51 kN	55990 m	15328 ft	5.27 °	3536 ft/min	-3.5 dB _A
Gain	0. knots	56.2 knots	26.24 kN	33708 m	10193 ft	0. °	524 ft/min	2. dB _A



NADP1-UNL

7478 100% MTOM

Fixpunktprofil nach AzB

σ' [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
21990	-2	132	1239
30330	-2,5	156	1604
35020	-2,5	170	1822
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 35020	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	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	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	278. kN	0 m	328 ft	0. °	0 ft/min	-0.5 dB _A
End	194. knots	194.9 knots	222.68 kN	3212 m	328 ft	0. °	0 ft/min	-0.5 dB _A
Gain	194. knots	194.9 knots	-55.32 kN	3212 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	194.9 knots	222.68 kN	3212 m	328 ft	5.88 °	2022 ft/min	-0.5 dB _A
End	194. knots	199.2 knots	225.85 kN	7652 m	1828 ft	5.88 °	2067 ft/min	-0.5 dB _A
Gain	0. knots	4.3 knots	3.17 kN	4440 m	1500 ft	0. °	45 ft/min	0. dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	199.2 knots	196.96 kN	7652 m	1828 ft	4.13 °	1453 ft/min	-2. dB _A
End	194. knots	203.8 knots	202.07 kN	13989 m	3328 ft	4.13 °	1486 ft/min	-2. dB _A
Gain	0. knots	4.6 knots	5.11 kN	6337 m	1500 ft	0. °	33 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	203.8 knots	202.07 kN	13989 m	3328 ft	2.05 °	738 ft/min	-2. dB _A
End	200. knots	210.5 knots	201.41 kN	15027 m	3450 ft	2.05 °	762 ft/min	-2. dB _A
Gain	6. knots	6.7 knots	-0.66 kN	1038 m	122 ft	0. °	24 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	210.5 knots	201.4 kN	15027 m	3450 ft	2.27 °	844 ft/min	-2. dB _A
End	220. knots	233.1 knots	199.3 kN	18420 m	3892 ft	2.27 °	935 ft/min	-2. dB _A
Gain	20. knots	22.6 knots	-2.1 kN	3393 m	442 ft	0. °	91 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	233.1 knots	199.3 kN	18420 m	3892 ft	2.44 °	1005 ft/min	-2. dB _A
End	240. knots	256.1 knots	197.35 kN	21994 m	4392 ft	2.44 °	1104 ft/min	-2. dB _A
Gain	20. knots	23. knots	-1.95 kN	3574 m	500 ft	0. °	99 ft/min	0. dB _A

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

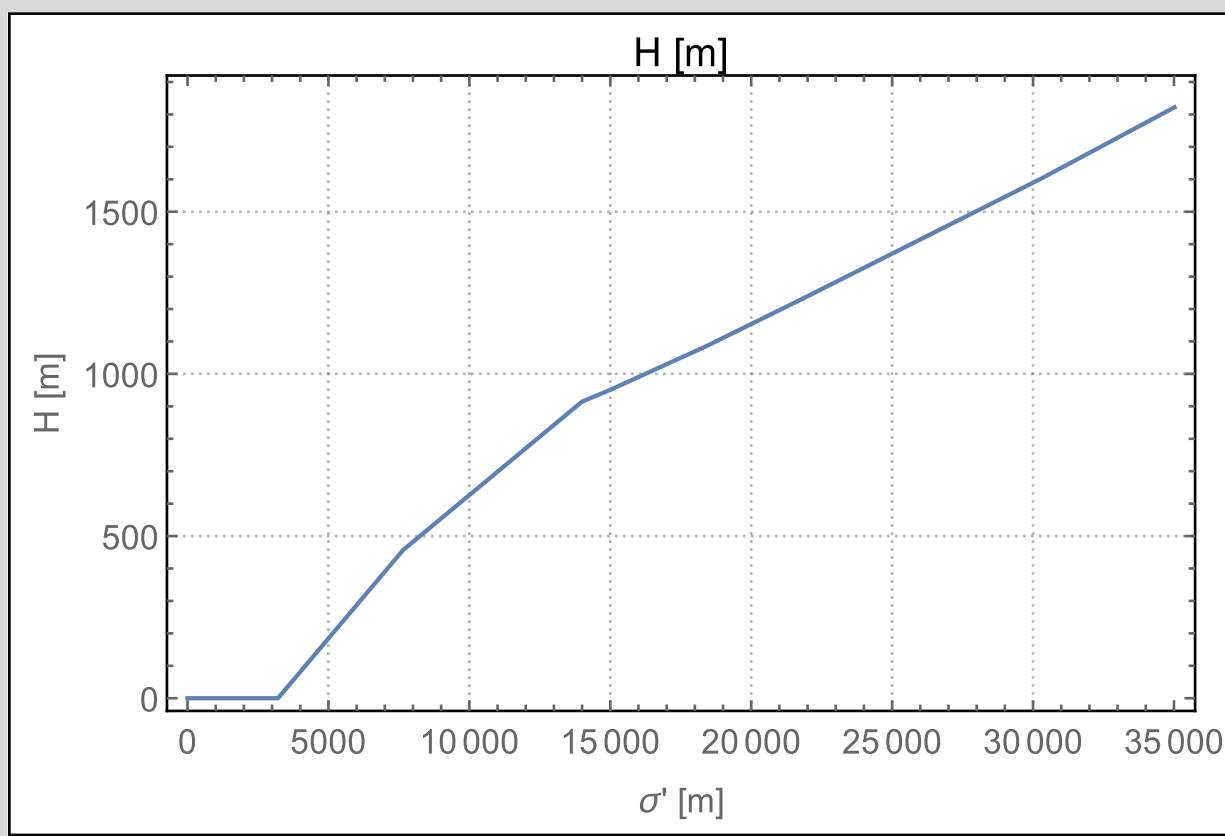
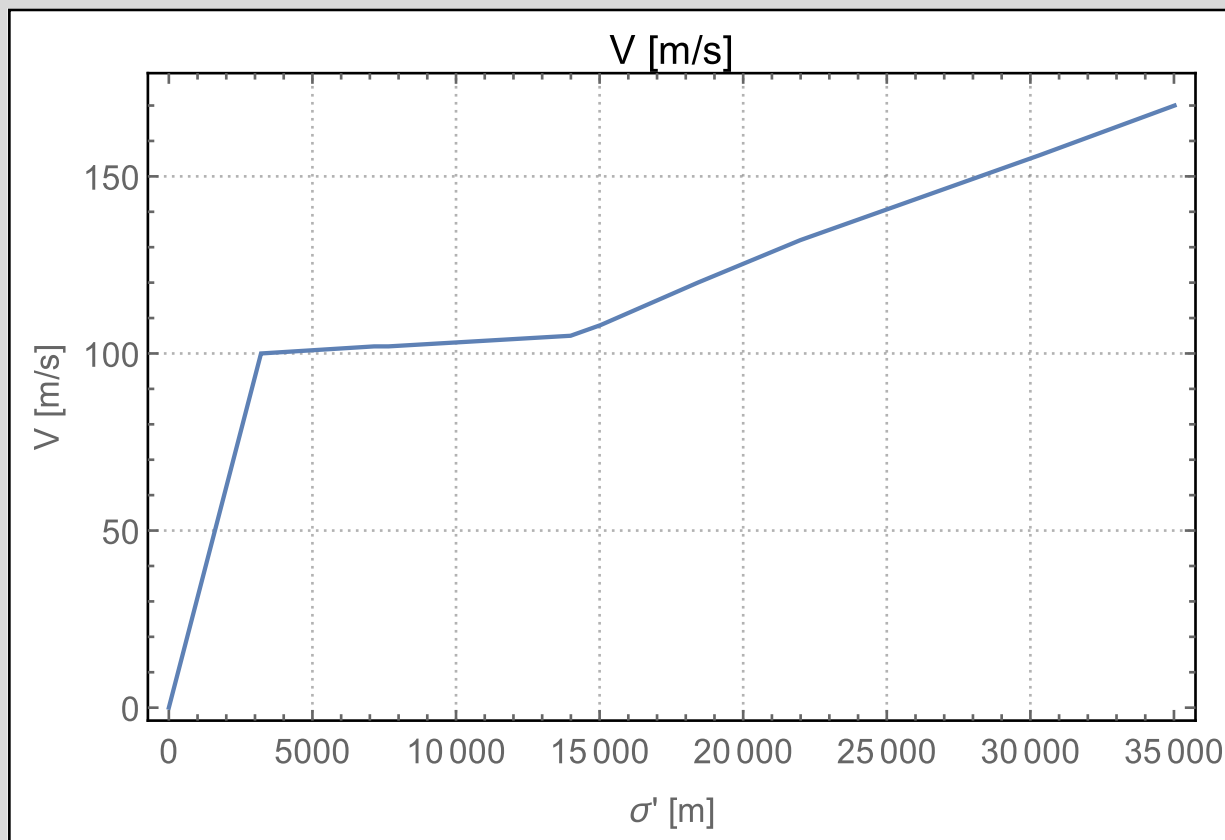
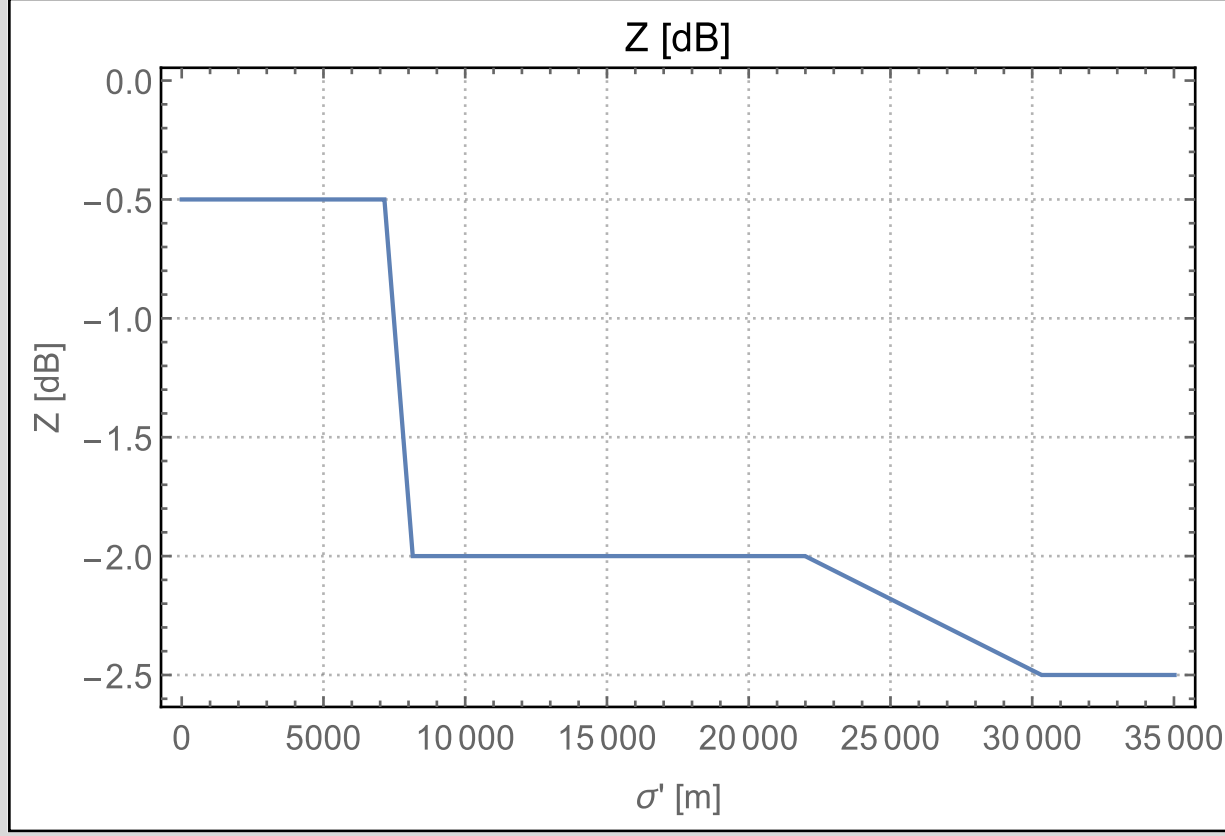
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	256.1 knots	197.35 kN	21994 m	4392 ft	2.51 °	1136 ft/min	-2. dB _A
End	280. knots	304.2 knots	193.95 kN	30334 m	5590 ft	2.51 °	1350 ft/min	-2.5 dB _A
Gain	40. knots	48.1 knots	-3.4 kN	8340 m	1198 ft	0. °	214 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	304.2 knots	193.95 kN	30334 m	5590 ft	2.67 °	1436 ft/min	-2.5 dB _A
End	300. knots	329.7 knots	192.52 kN	35019 m	6307 ft	2.67 °	1555 ft/min	-2.5 dB _A
Gain	20. knots	25.5 knots	-1.43 kN	4685 m	717 ft	0. °	119 ft/min	0. dB _A

Segment 9 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	329.7 knots	192.52 kN	35019 m	6307 ft	3.9 °	2271 ft/min	-2.5 dB _A
End	300. knots	380.1 knots	213.3 kN	75331 m	15328 ft	3.9 °	2618 ft/min	-1.5 dB _A
Gain	0. knots	50.4 knots	20.78 kN	40312 m	9021 ft	0. °	347 ft/min	1. dB _A



NADP1-UNL

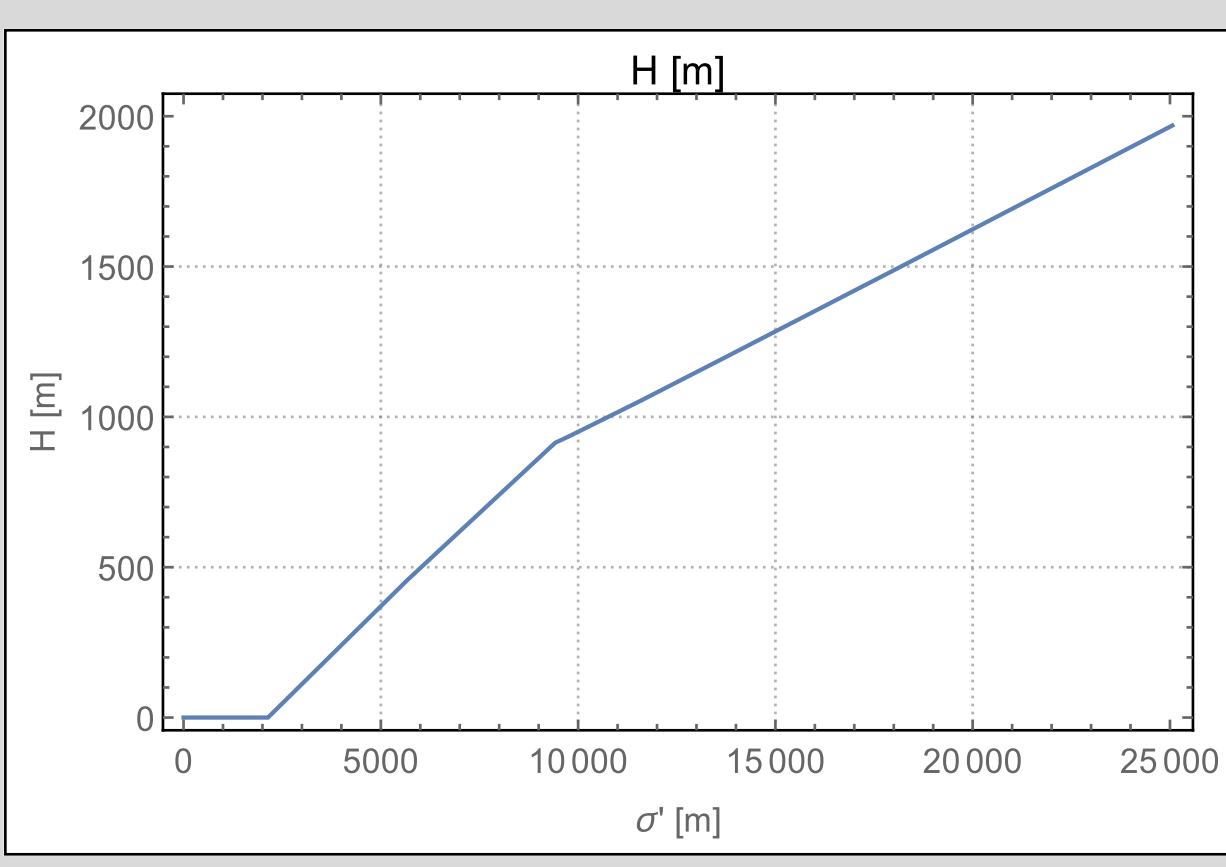
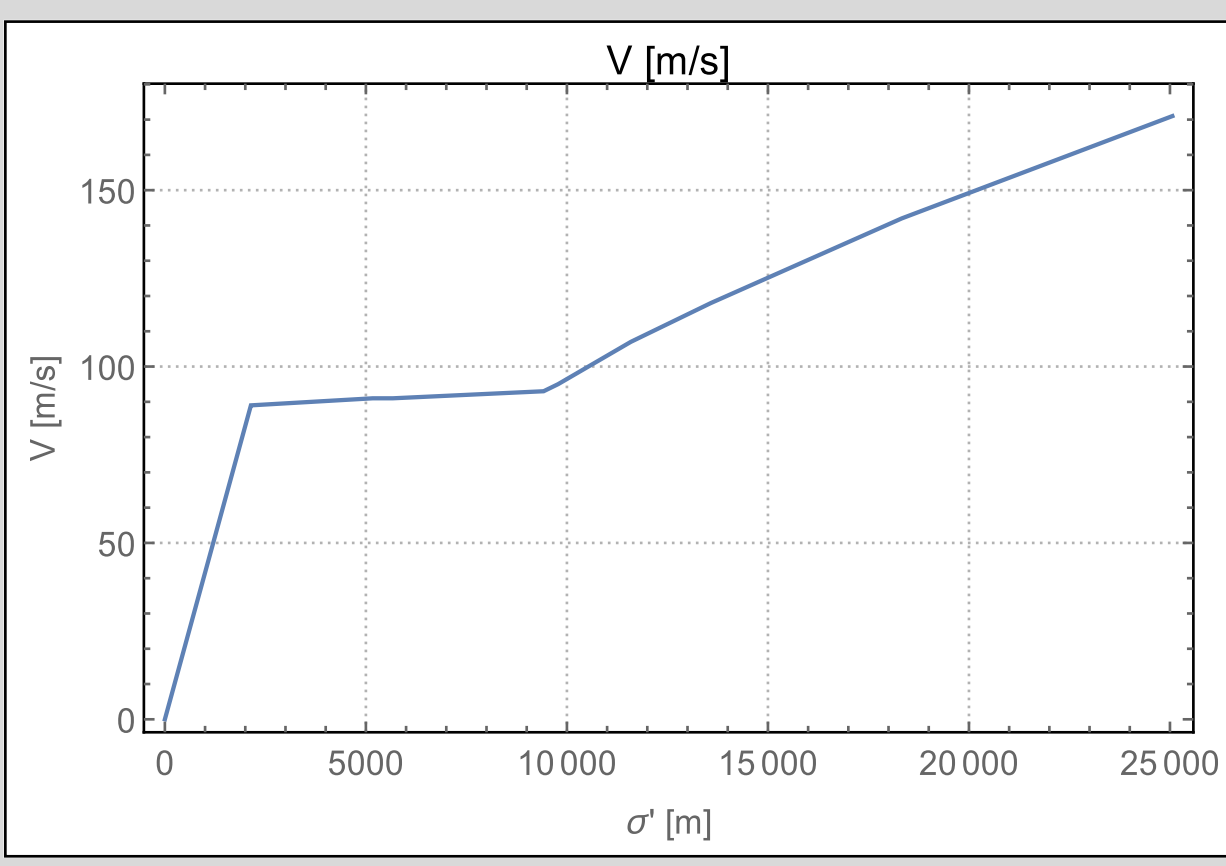
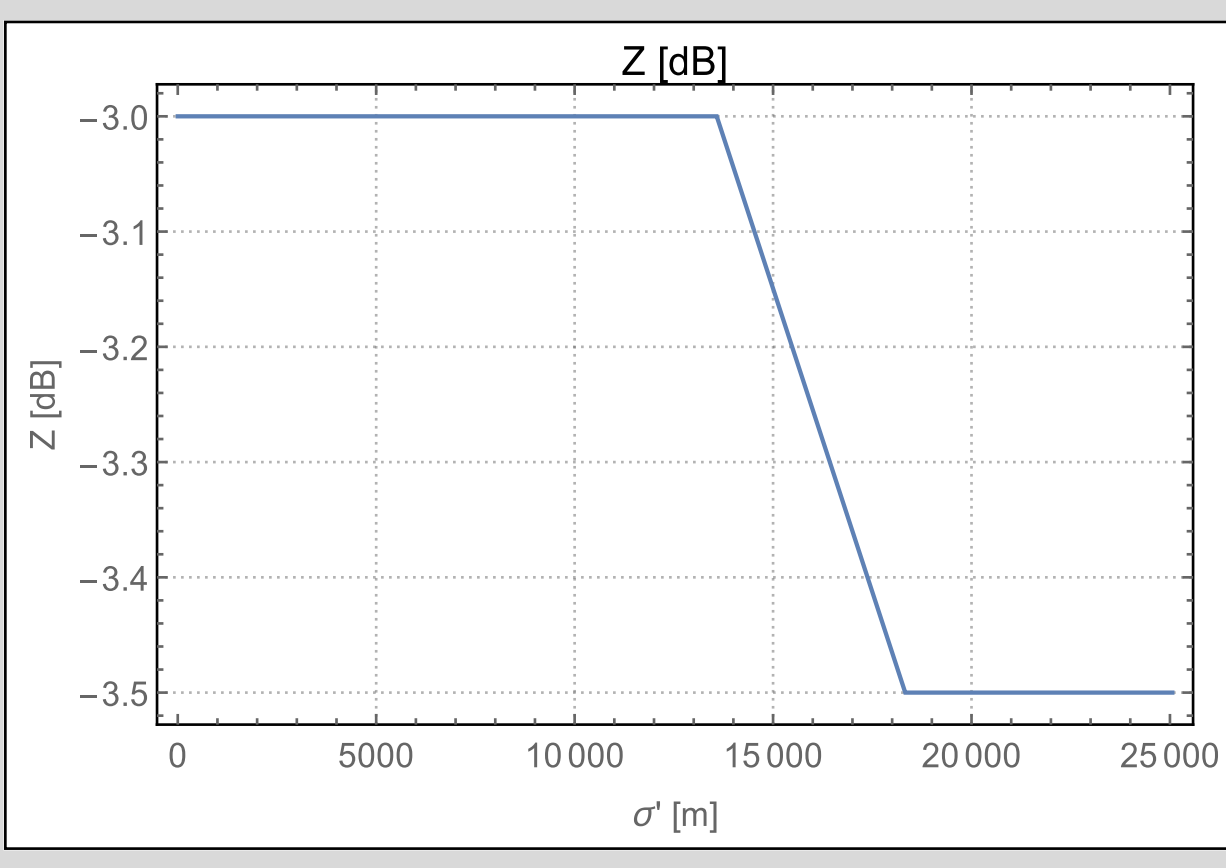
7478 75% MTOM

Fixpunktprofil nach AzB

σ' [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
18330	-3,5	142	1510
25060	-3,5	171	1969
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 25060	0	0	0,1

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	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 Flaps UP Speed	ACC	0	F_1	MaxClimb	256.	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	231. kN	0 m	328 ft	0.°	0 ft/min	-3. dB _A
End	172. knots	172.8 knots	190.24 kN	2138 m	328 ft	0.°	0 ft/min	-3. dB _A
Gain	172. knots	172.8 knots	-40.76 kN	2138 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	172.8 knots	190.24 kN	2138 m	328 ft	7.38°	2248 ft/min	-3. dB _A
End	172. knots	176.7 knots	192.88 kN	5666 m	1828 ft	7.38°	2298 ft/min	-3. dB _A
Gain	0. knots	3.9 knots	2.64 kN	3528 m	1500 ft	0.°	50 ft/min	0. dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	176.7 knots	192.88 kN	5666 m	1828 ft	6.94°	2162 ft/min	-3. dB _A
End	172. knots	180.7 knots	197.78 kN	9420 m	3328 ft	6.94°	2211 ft/min	-3. dB _A
Gain	0. knots	4. knots	4.9 kN	3754 m	1500 ft	0.°	49 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	180.7 knots	197.78 kN	9420 m	3328 ft	3.48°	1111 ft/min	-3. dB _A
End	176. knots	185.1 knots	197.33 kN	9776 m	3399 ft	3.48°	1138 ft/min	-3. dB _A
Gain	4. knots	4.4 knots	-0.45 kN	356 m	71 ft	0.°	27 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	185.1 knots	197.33 kN	9776 m	3399 ft	3.71°	1213 ft/min	-3. dB _A
End	196. knots	207.3 knots	195.13 kN	11591 m	3785 ft	3.71°	1358 ft/min	-3. dB _A
Gain	20. knots	22.2 knots	-2.2 kN	1815 m	386 ft	0.°	145 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	196. knots	207.3 knots	195.13 kN	11591 m	3785 ft	3.86°	1413 ft/min	-3. dB _A
End	216. knots	230. knots	193.08 kN	13579 m	4225 ft	3.86°	1568 ft/min	-3. dB _A
Gain	20. knots	22.7 knots	-2.05 kN	1988 m	440 ft	0.°	155 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	216. knots	230. knots	193.08 kN	13579 m	4225 ft	3.88°	1576 ft/min	-3. dB _A
End	256. knots	276.9 knots	189.43 kN	18330 m	5282 ft	3.88°	1898 ft/min	-3.5 dB _A
Gain	40. knots	46.9 knots	-3.65 kN	4751 m	1057 ft	0.°	322 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	256. knots	276.9 knots	189.43 kN	18330 m	5282 ft	3.91°	1912 ft/min	-3.5 dB _A
End	300. knots	332.1 knots	186.2 kN	25057 m	6789 ft	3.91°	2293 ft/min	-3.5 dB _A
Gain	44. knots	55.2 knots	-3.23 kN	6727 m	1507 ft	0.°	381 ft/min	0. dB _A

Segment 9 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	332.1 knots	186.2 kN	25057 m	6789 ft	5.72°	3352 ft/min	-3.5 dB _A
End	300. knots	380.1 knots	204.82 kN	51023 m	15328 ft	5.72°	3836 ft/min	-2.5 dB _A
Gain	0. knots	48. knots	18.62 kN	25966 m	8539 ft	0.°	484 ft/min	1. dB _A

NADP2-10-UNL

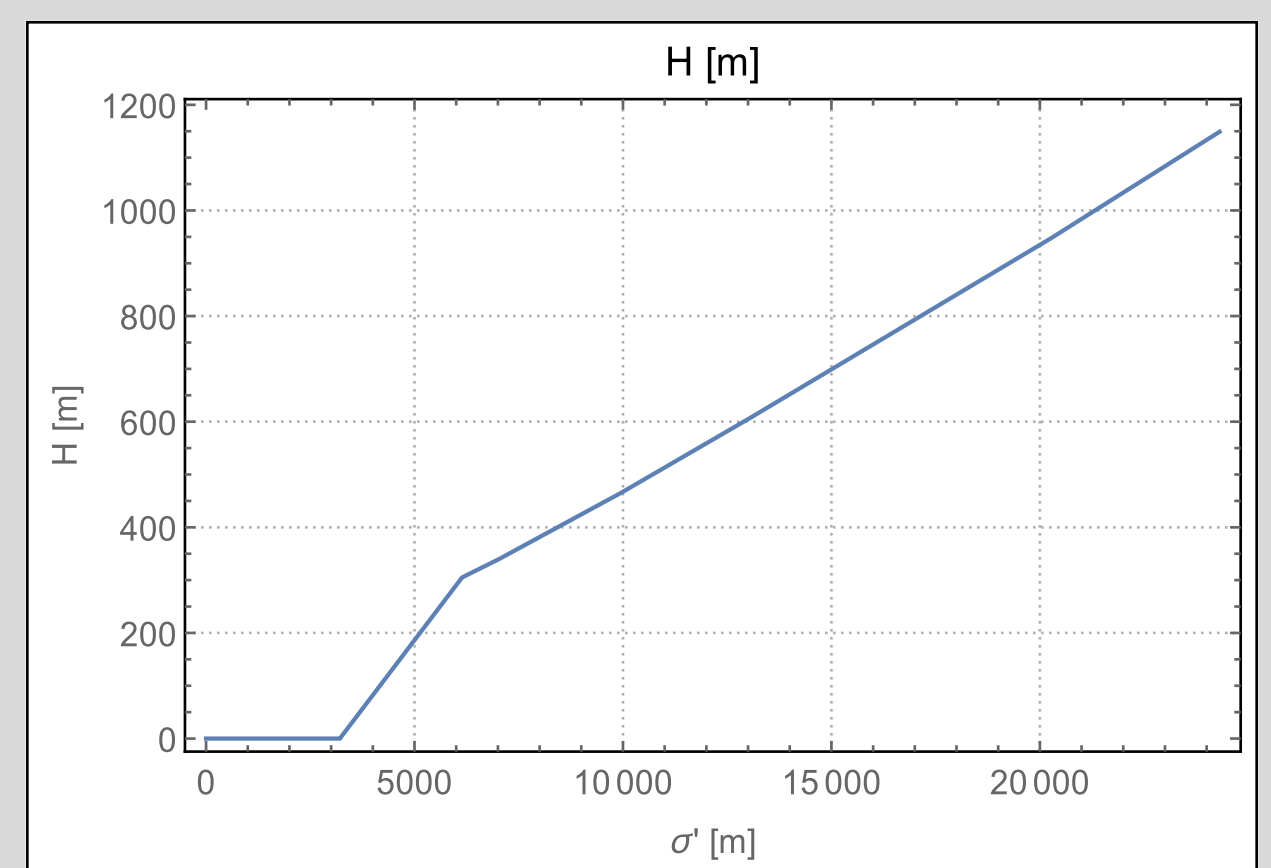
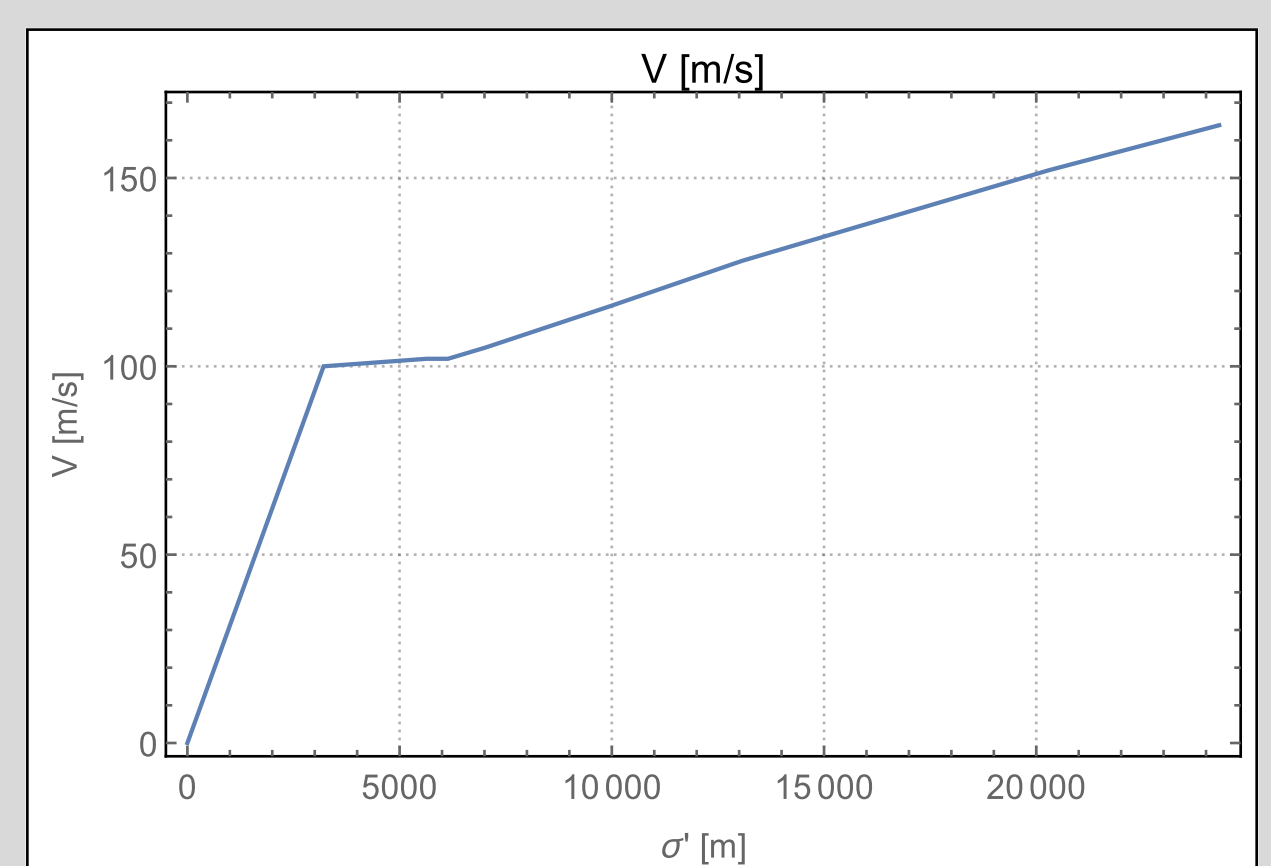
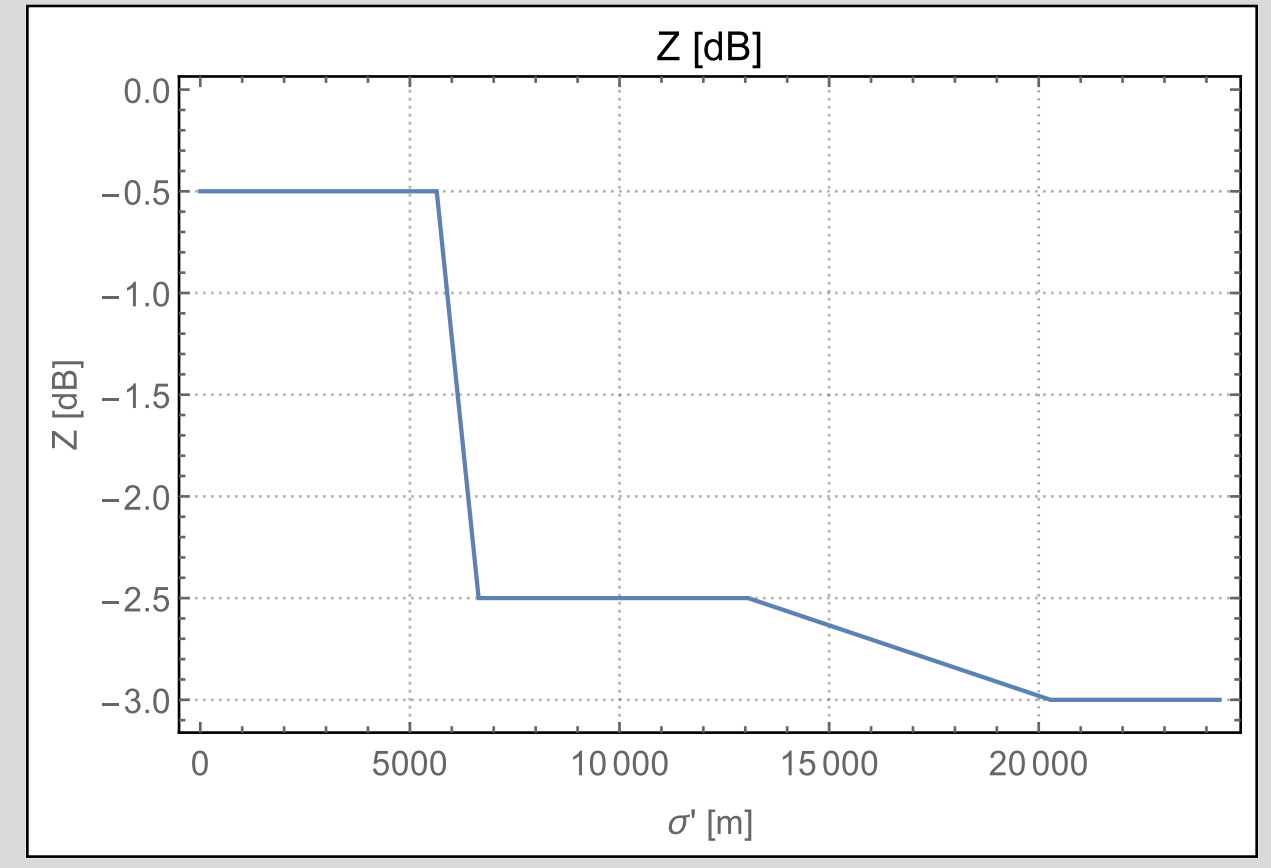
7478 100% MTOM

Fixpunktprofil nach AzB

σ' [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
13070	-2,5	128	608
20280	-3	152	948
24310	-3	164	1149
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 24310	0	0	0,072

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	200.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	F_10	MaxClimb	220.	0.
5	Accelerate to Flaps 1 Speed	ACC	0	F_5	MaxClimb	240.	0.
6	Accelerate to Flaps UP Speed	ACC	0	F_1	MaxClimb	280.	0.
7	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	278. kN	0 m	328 ft	0. °	0 ft/min	-0.5 dB _A
End	194. knots	194.9 knots	222.68 kN	3212 m	328 ft	0. °	0 ft/min	-0.5 dB _A
Gain	194. knots	194.9 knots	-55.32 kN	3212 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	194.9 knots	222.68 kN	3212 m	328 ft	5.95 °	2046 ft/min	-0.5 dB _A
End	194. knots	197.8 knots	224.79 kN	6136 m	1328 ft	5.95 °	2077 ft/min	-0.5 dB _A
Gain	0. knots	2.9 knots	2.11 kN	2924 m	1000 ft	0. °	31 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	197.8 knots	195.19 kN	6136 m	1328 ft	2.25 °	786 ft/min	-2.5 dB _A
End	200. knots	204.2 knots	194.54 kN	7030 m	1443 ft	2.25 °	812 ft/min	-2.5 dB _A
Gain	6. knots	6.4 knots	-0.65 kN	894 m	115 ft	0. °	26 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	204.2 knots	194.54 kN	7030 m	1443 ft	2.46 °	888 ft/min	-2.5 dB _A
End	220. knots	226.1 knots	192.45 kN	9971 m	1857 ft	2.46 °	983 ft/min	-2.5 dB _A
Gain	20. knots	21.9 knots	-2.09 kN	2941 m	414 ft	0. °	95 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	226.1 knots	192.45 kN	9971 m	1857 ft	2.63 °	1051 ft/min	-2.5 dB _A
End	240. knots	248.3 knots	190.53 kN	13072 m	2324 ft	2.63 °	1154 ft/min	-2.5 dB _A
Gain	20. knots	22.2 knots	-1.92 kN	3101 m	467 ft	0. °	103 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	248.3 knots	190.53 kN	13072 m	2324 ft	2.7 °	1185 ft/min	-2.5 dB _A
End	280. knots	294.7 knots	187.18 kN	20281 m	3438 ft	2.7 °	1405 ft/min	-3. dB _A
Gain	40. knots	46.4 knots	-3.35 kN	7209 m	1114 ft	0. °	220 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	294.7 knots	187.18 kN	20281 m	3438 ft	2.86 °	1489 ft/min	-3. dB _A
End	300. knots	318.7 knots	185.77 kN	24306 m	4098 ft	2.86 °	1611 ft/min	-3. dB _A
Gain	20. knots	24. knots	-1.41 kN	4025 m	660 ft	0. °	122 ft/min	0. dB _A

Segment 8 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	318.7 knots	185.77 kN	24306 m	4098 ft	4.13 °	2325 ft/min	-3. dB _A
End	300. knots	380.1 knots	213.3 kN	71745 m	15328 ft	4.13 °	2772 ft/min	-1.5 dB _A
Gain	0. knots	61.4 knots	27.53 kN	47439 m	11230 ft	0. °	447 ft/min	1.5 dB _A

NADP2-10-UNL

7478 75% MTOM

Fixpunktprofil nach AzB

σ' [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
12240	-3,5	138	862
18040	-4	165	1286
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 18040	0	0	0,106

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 Flaps UP Speed	ACC	0	F_1	MaxClimb	256.	0.
7	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	231. kN	0 m	328 ft	0. °	0 ft/min	-3. dB _A
End	172. knots	172.8 knots	190.24 kN	2138 m	328 ft	0. °	0 ft/min	-3. dB _A
Gain	172. knots	172.8 knots	-40.76 kN	2138 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	172.8 knots	190.24 kN	2138 m	328 ft	7.47 °	2275 ft/min	-3. dB _A
End	172. knots	175.4 knots	192. kN	4464 m	1328 ft	7.47 °	2309 ft/min	-3. dB _A
Gain	0. knots	2.6 knots	1.76 kN	2326 m	1000 ft	0. °	34 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	175.4 knots	192. kN	4464 m	1328 ft	3.77 °	1168 ft/min	-3. dB _A
End	176. knots	179.6 knots	191.55 kN	4774 m	1395 ft	3.77 °	1196 ft/min	-3. dB _A
Gain	4. knots	4.2 knots	-0.45 kN	310 m	67 ft	0. °	28 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	179.6 knots	191.55 kN	4774 m	1395 ft	3.98 °	1263 ft/min	-3. dB _A
End	196. knots	201.1 knots	189.36 kN	6363 m	1758 ft	3.98 °	1414 ft/min	-3.5 dB _A
Gain	20. knots	21.5 knots	-2.19 kN	1589 m	363 ft	0. °	151 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	196. knots	201.1 knots	189.36 kN	6363 m	1758 ft	4.13 °	1467 ft/min	-3.5 dB _A
End	216. knots	223. knots	187.33 kN	8102 m	2170 ft	4.13 °	1626 ft/min	-3.5 dB _A
Gain	20. knots	21.9 knots	-2.03 kN	1739 m	412 ft	0. °	159 ft/min	0. dB _A

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

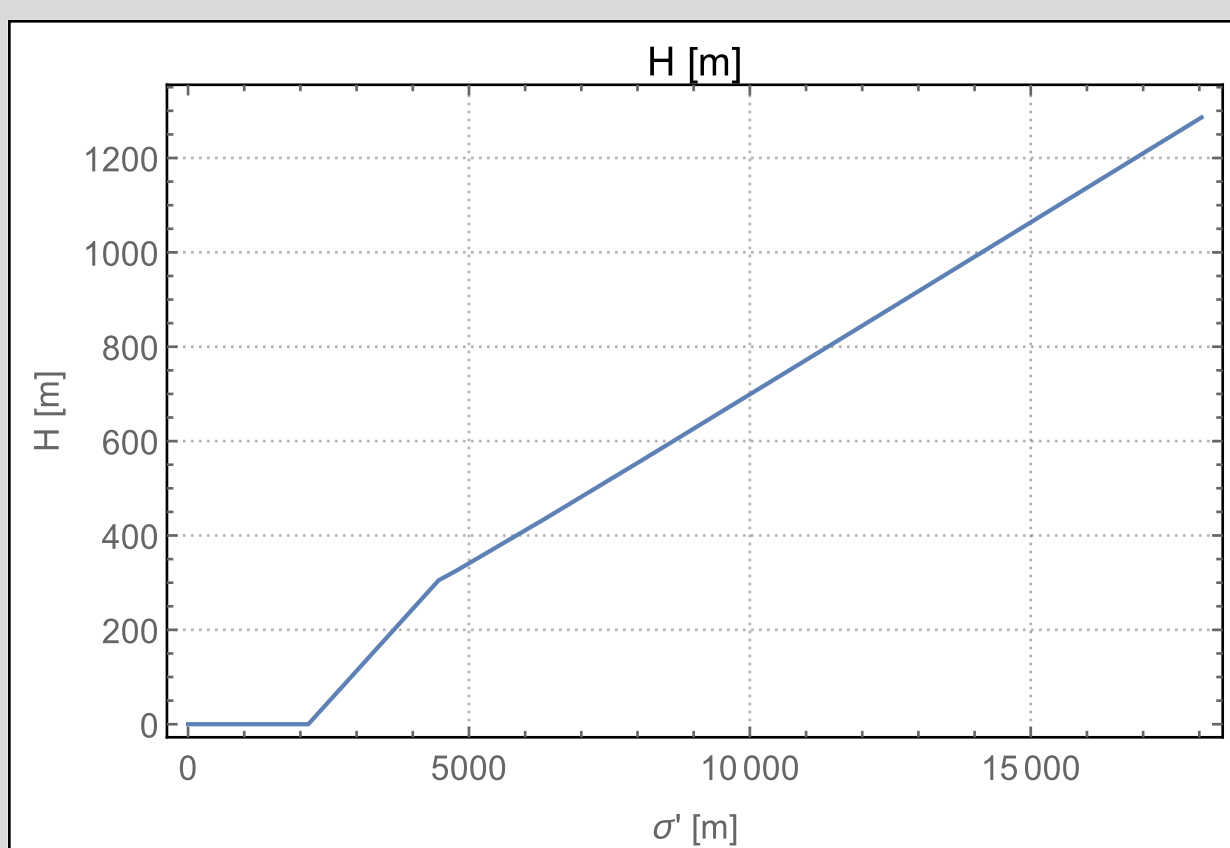
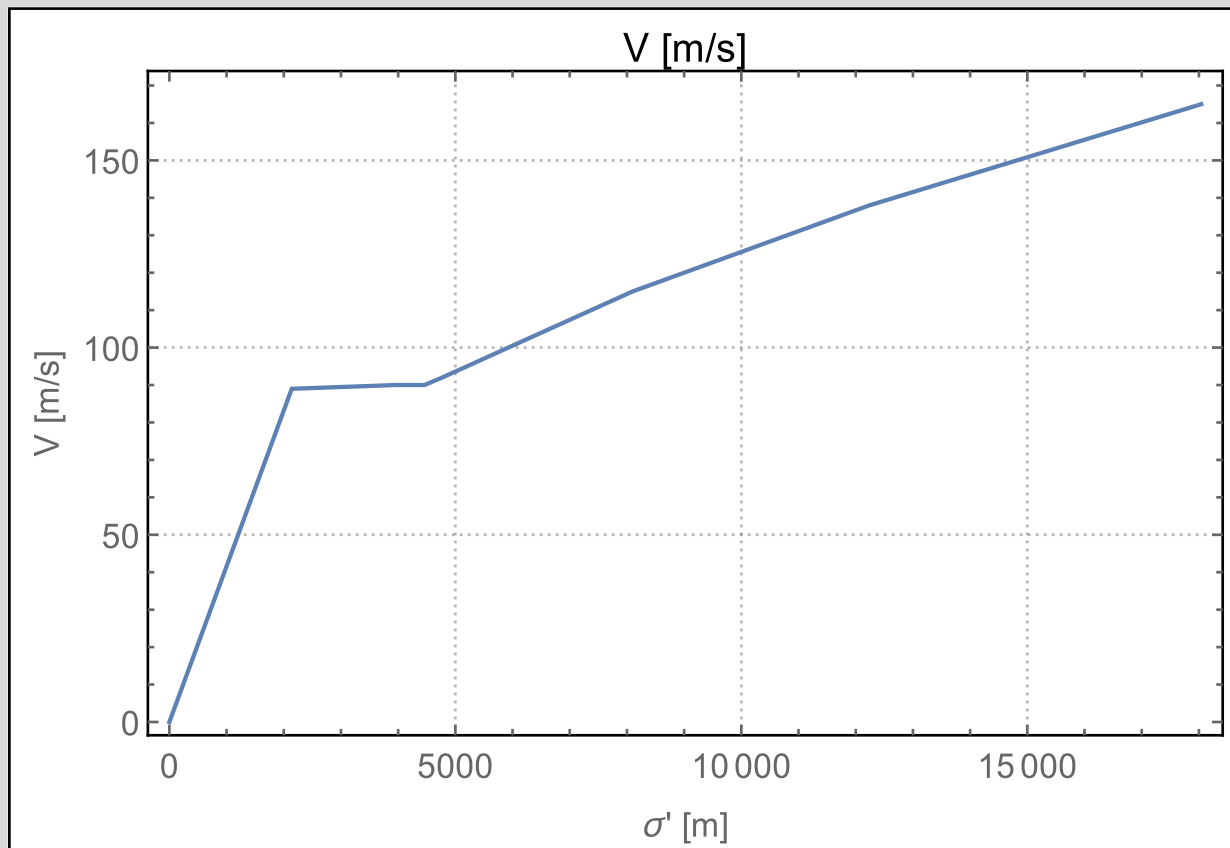
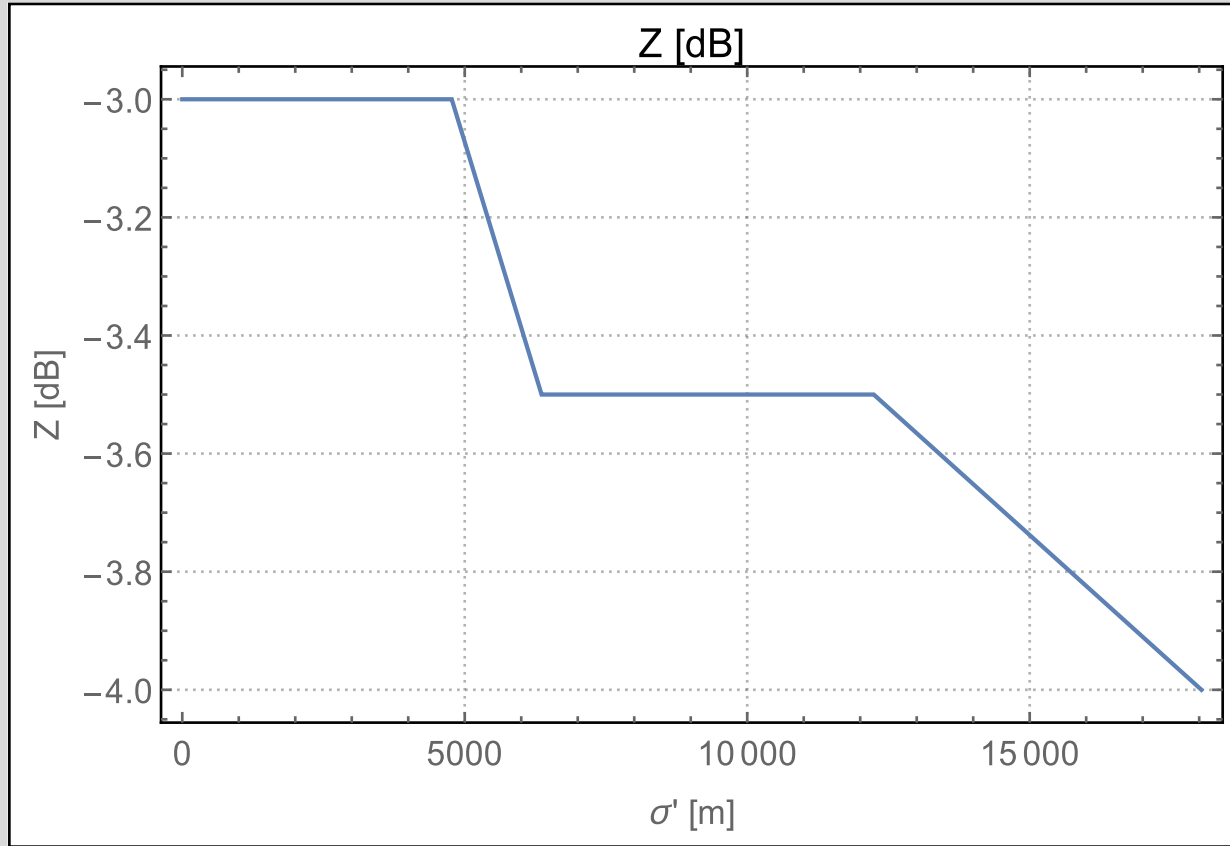
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	216. knots	223. knots	187.33 kN	8102 m	2170 ft	4.15 °	1634 ft/min	-3.5 dB _A
End	256. knots	268.2 knots	183.71 kN	12244 m	3157 ft	4.15 °	1966 ft/min	-3.5 dB _A
Gain	40. knots	45.2 knots	-3.62 kN	4142 m	987 ft	0. °	332 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	256. knots	268.2 knots	183.72 kN	12244 m	3157 ft	4.18 °	1980 ft/min	-3.5 dB _A
End	300. knots	320.9 knots	180.52 kN	18039 m	4546 ft	4.18 °	2369 ft/min	-4. dB _A
Gain	44. knots	52.7 knots	-3.2 kN	5795 m	1389 ft	0. °	389 ft/min	-0.5 dB _A

Segment 8 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	320.9 knots	180.52 kN	18039 m	4546 ft	6.06 °	3431 ft/min	-4. dB _A
End	300. knots	380.1 knots	205.7 kN	49016 m	15328 ft	6.06 °	4064 ft/min	-2.5 dB _A
Gain	0. knots	59.2 knots	25.18 kN	30977 m	10782 ft	0. °	633 ft/min	1.5 dB _A



NADP2-15-UNL

7478 100% MTOM

Fixpunktprofil nach AzB

σ' [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
14830	-2,5	129	766
22290	-2,5	153	1112
26470	-3	165	1317
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 26470	0	0	0,071

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	200.	0.
4	Accelerate to Flaps 5 Speed	ACC	0	F_10	MaxClimb	220.	0.
5	Accelerate to Flaps 1 Speed	ACC	0	F_5	MaxClimb	240.	0.
6	Accelerate to Flaps UP Speed	ACC	0	F_1	MaxClimb	280.	0.
7	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	278. kN	0 m	328 ft	0. °	0 ft/min	-0.5 dB _A
End	194. knots	194.9 knots	222.68 kN	3212 m	328 ft	0. °	0 ft/min	-0.5 dB _A
Gain	194. knots	194.9 knots	-55.32 kN	3212 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	194.9 knots	222.68 kN	3212 m	328 ft	5.88 °	2022 ft/min	-0.5 dB _A
End	194. knots	199.2 knots	225.85 kN	7652 m	1828 ft	5.88 °	2067 ft/min	-0.5 dB _A
Gain	0. knots	4.3 knots	3.17 kN	4440 m	1500 ft	0. °	45 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	194. knots	199.2 knots	196.96 kN	7652 m	1828 ft	2.21 °	778 ft/min	-2. dB _A
End	200. knots	205.8 knots	196.31 kN	8578 m	1945 ft	2.21 °	804 ft/min	-2.5 dB _A
Gain	6. knots	6.6 knots	-0.65 kN	926 m	117 ft	0. °	26 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	205.8 knots	196.31 kN	8578 m	1945 ft	2.41 °	876 ft/min	-2.5 dB _A
End	220. knots	227.8 knots	194.22 kN	11621 m	2366 ft	2.41 °	970 ft/min	-2.5 dB _A
Gain	20. knots	22. knots	-2.09 kN	3043 m	421 ft	0. °	94 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. knots	227.8 knots	194.22 kN	11621 m	2366 ft	2.59 °	1042 ft/min	-2.5 dB _A
End	240. knots	250.2 knots	192.29 kN	14831 m	2842 ft	2.59 °	1145 ft/min	-2.5 dB _A
Gain	20. knots	22.4 knots	-1.93 kN	3210 m	476 ft	0. °	103 ft/min	0. dB _A

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

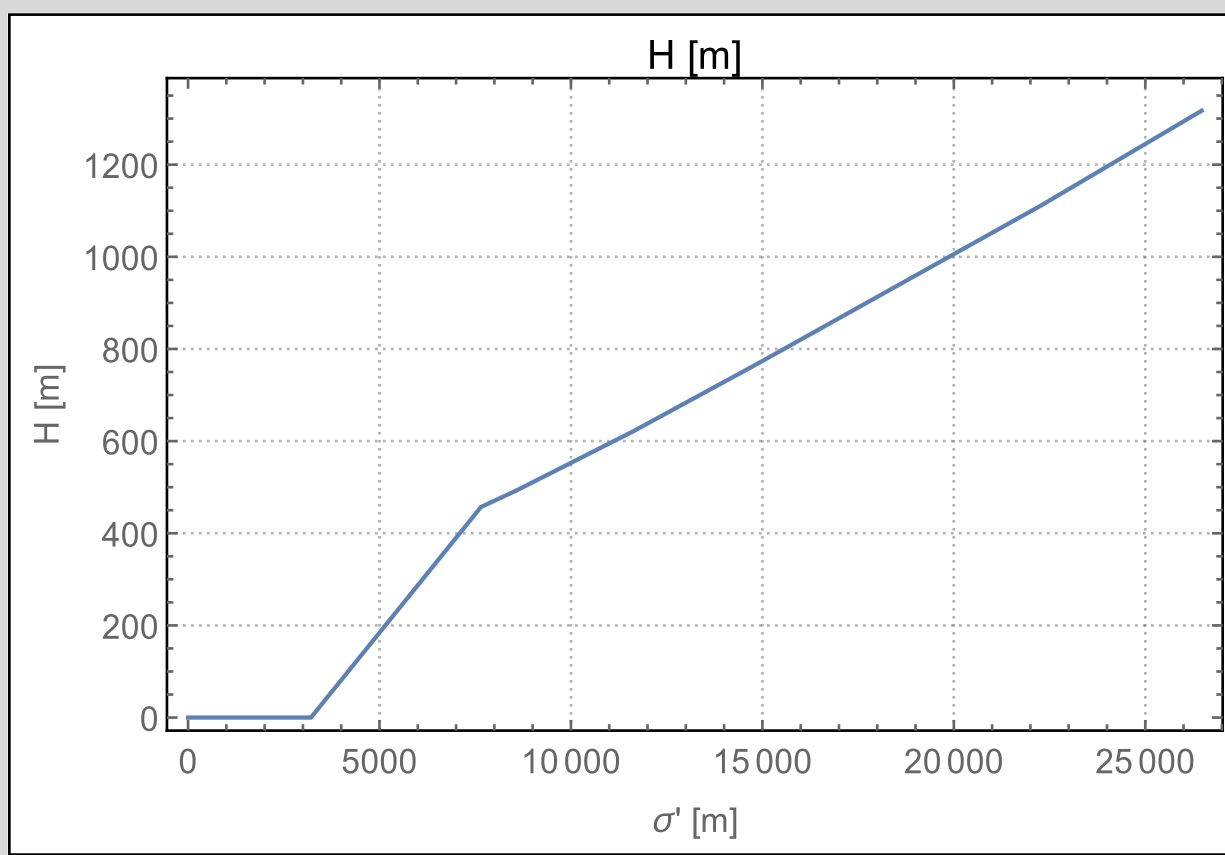
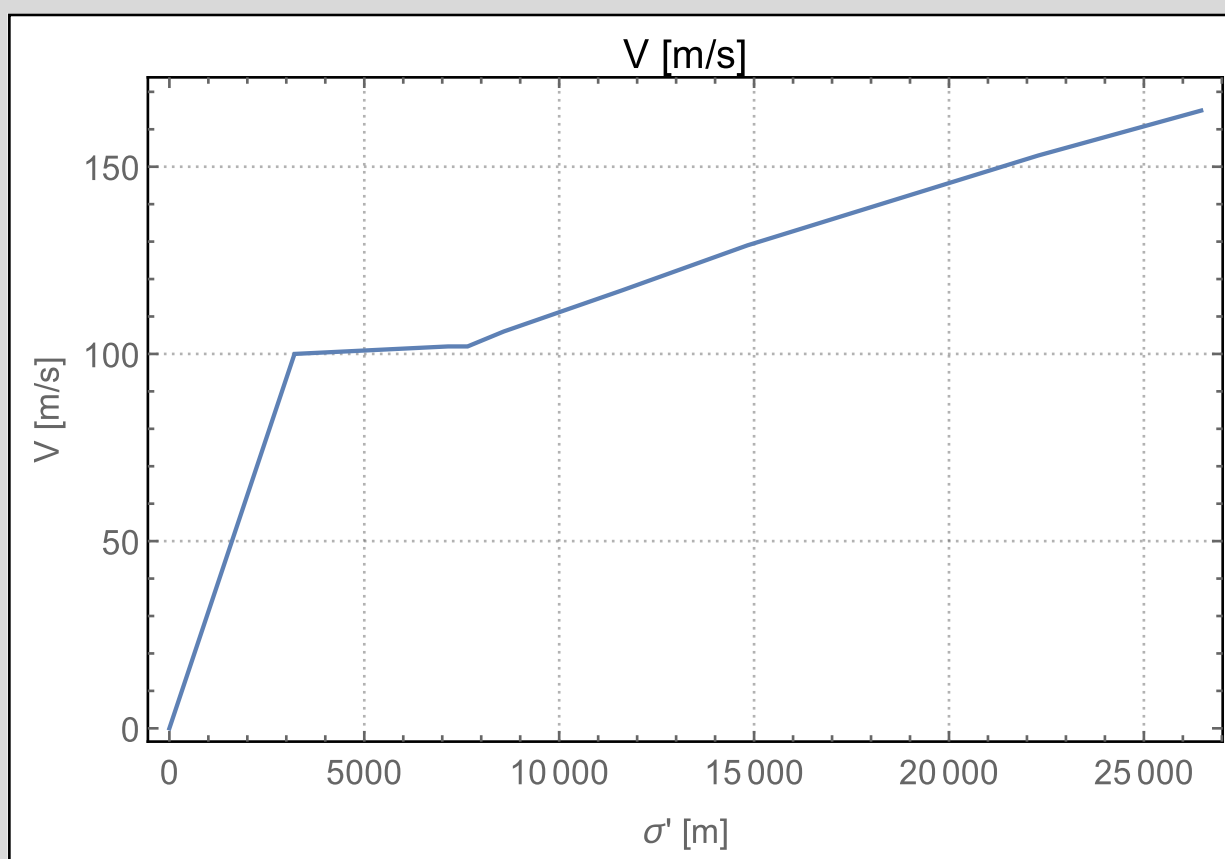
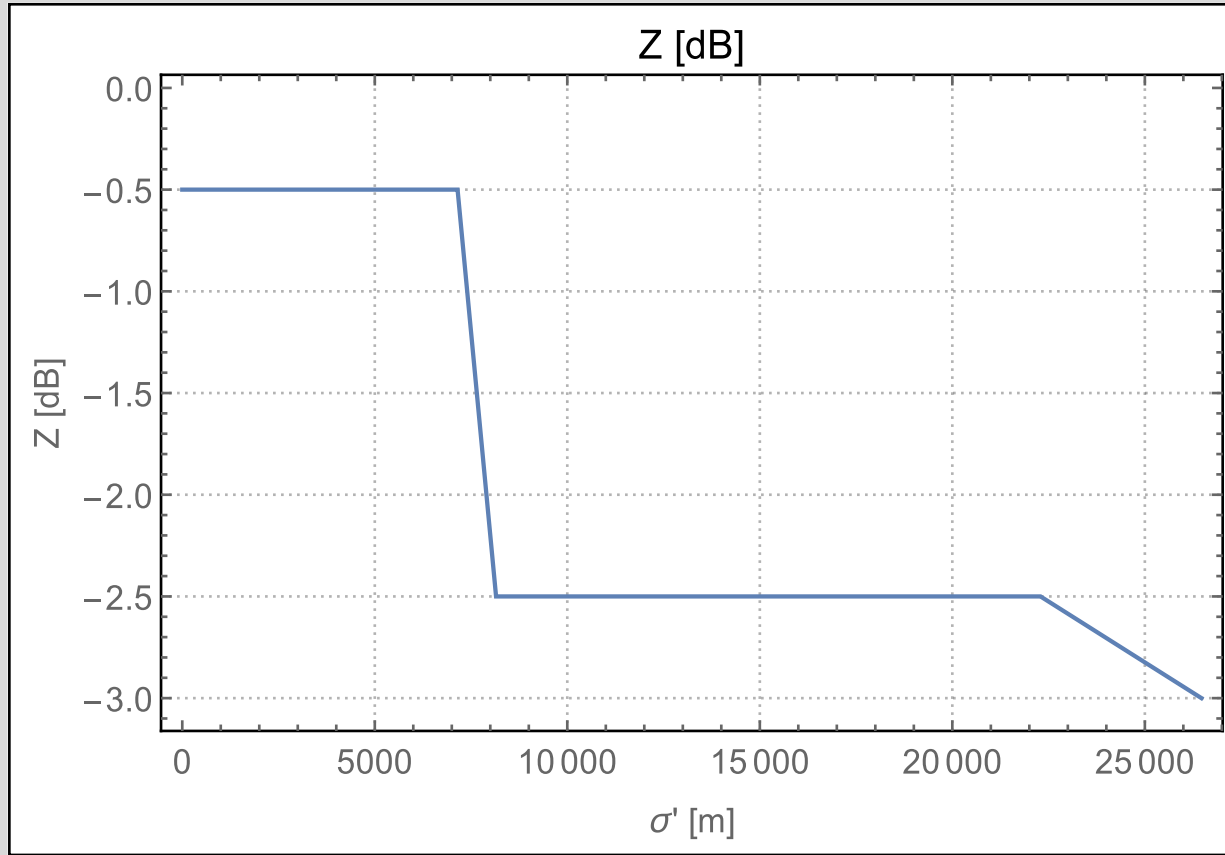
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	240. knots	250.2 knots	192.29 kN	14831 m	2842 ft	2.65 °	1172 ft/min	-2.5 dB _A
End	280. knots	297. knots	188.92 kN	22291 m	3975 ft	2.65 °	1390 ft/min	-2.5 dB _A
Gain	40. knots	46.8 knots	-3.37 kN	7460 m	1133 ft	0. °	218 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	280. knots	297. knots	188.93 kN	22291 m	3975 ft	2.81 °	1474 ft/min	-2.5 dB _A
End	300. knots	321.4 knots	187.52 kN	26472 m	4649 ft	2.81 °	1596 ft/min	-3. dB _A
Gain	20. knots	24.4 knots	-1.41 kN	4181 m	674 ft	0. °	122 ft/min	-0.5 dB _A

Segment 8 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	321.4 knots	187.52 kN	26472 m	4649 ft	4.07 °	2310 ft/min	-3. dB _A
End	300. knots	380.1 knots	213.3 kN	72229 m	15328 ft	4.07 °	2732 ft/min	-1.5 dB _A
Gain	0. knots	58.7 knots	25.78 kN	45757 m	10679 ft	0. °	422 ft/min	1.5 dB _A



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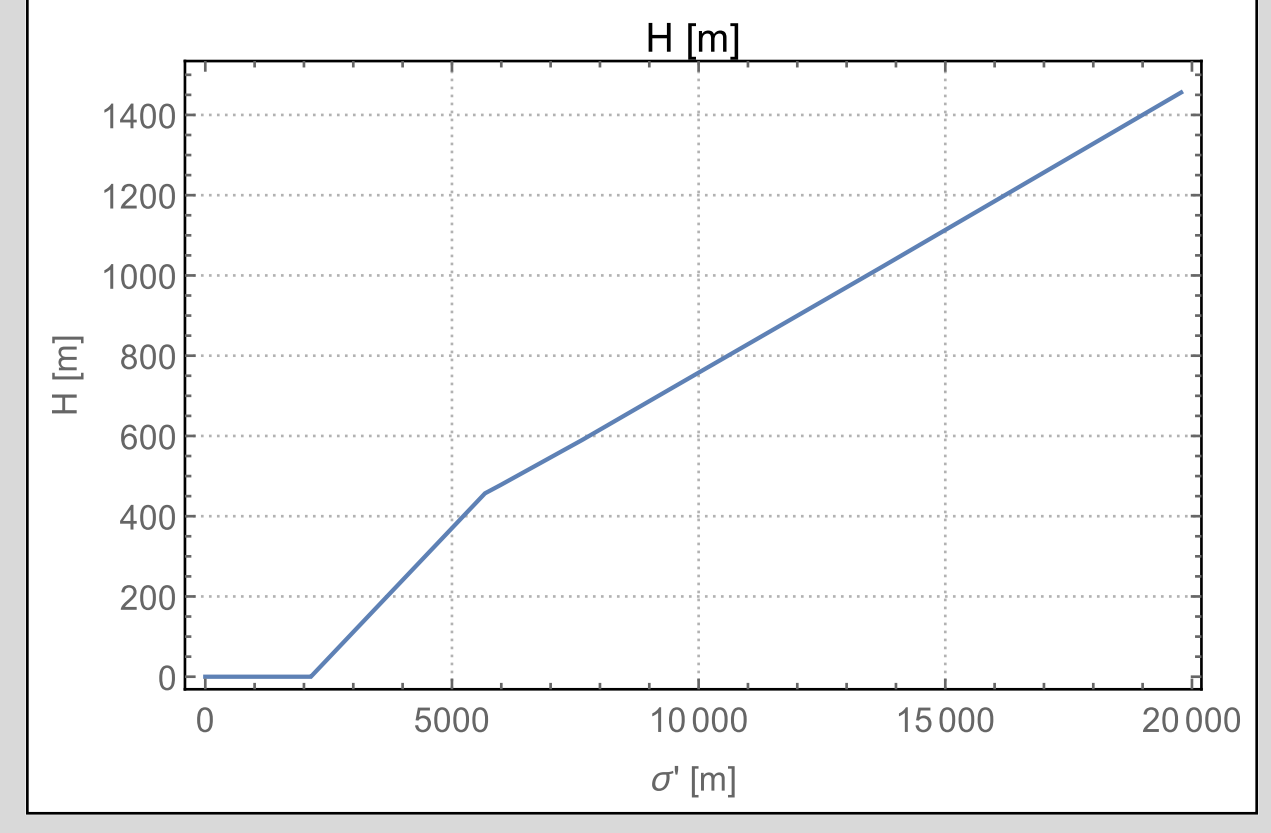
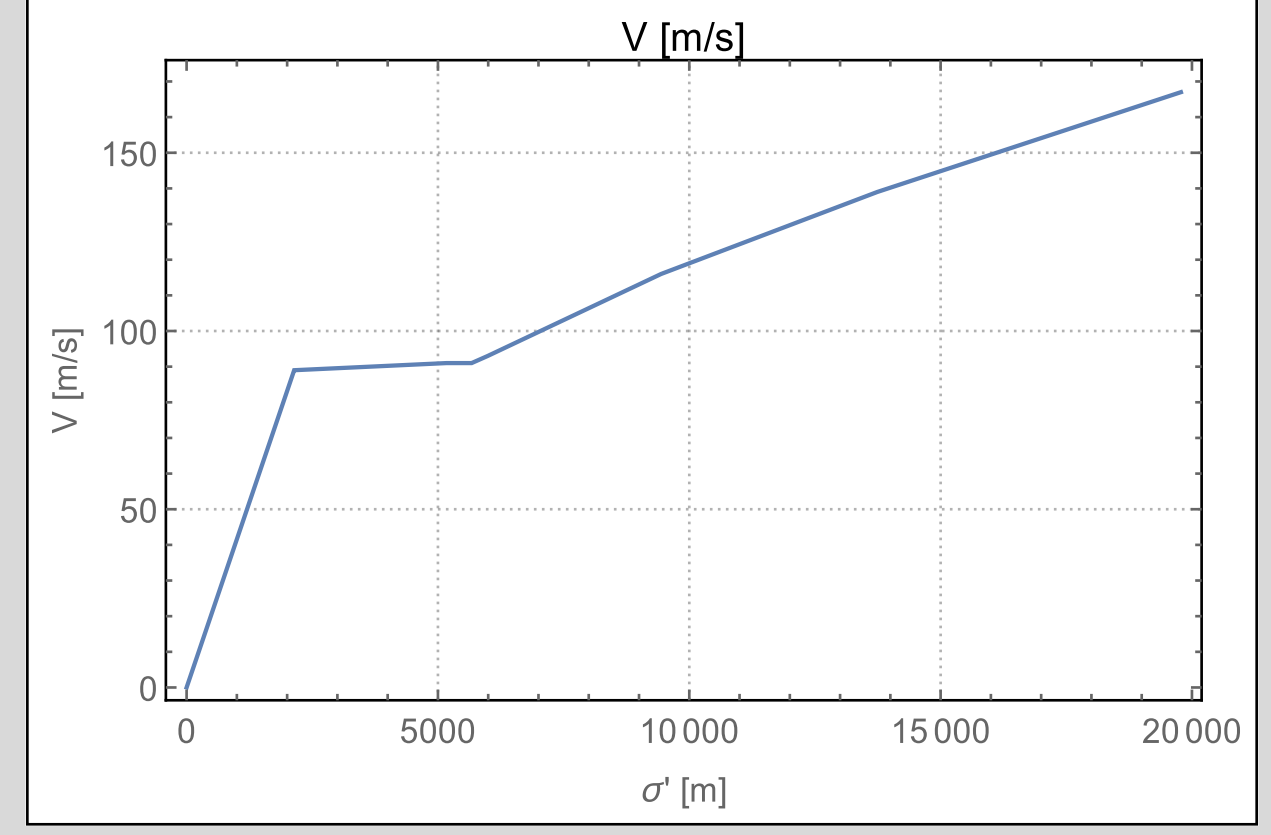
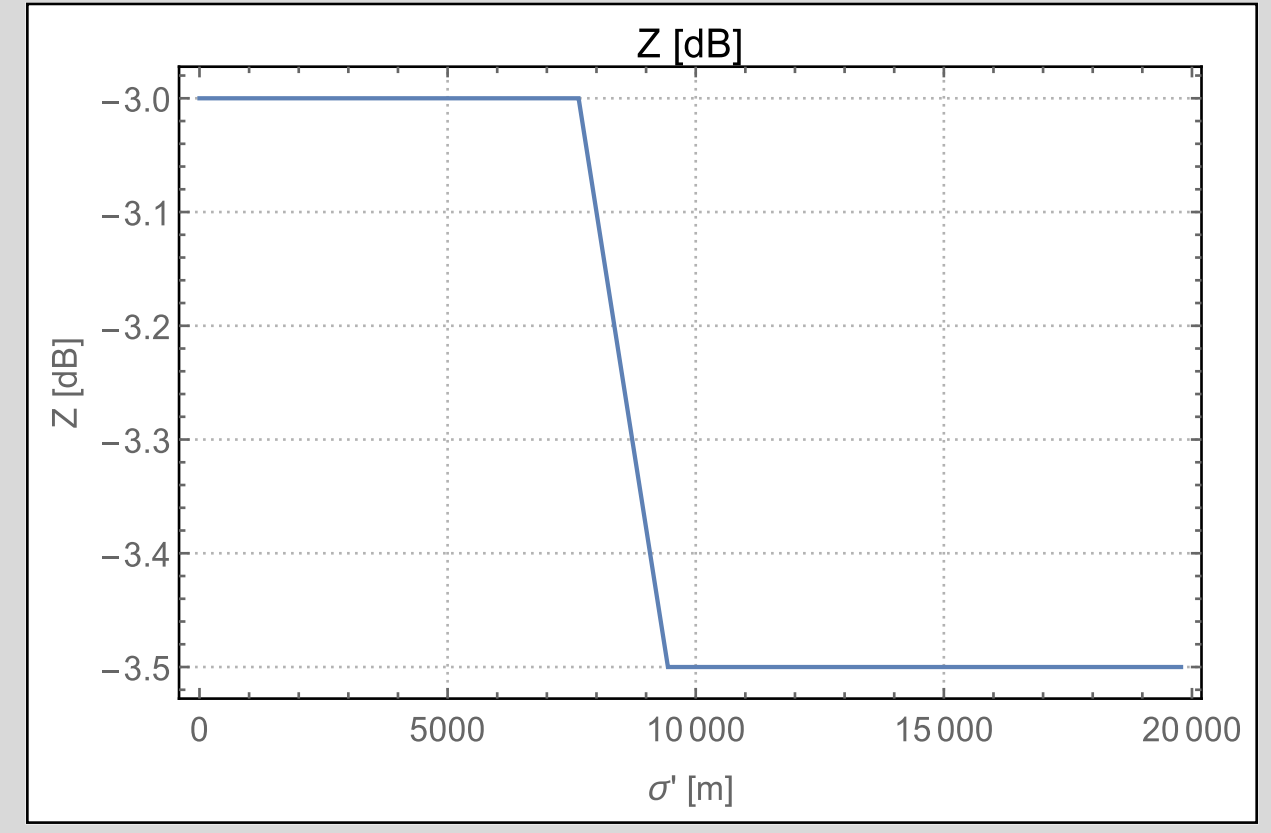
7478 75% MTOM

Fixpunktprofil nach AzB

σ' [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
13740	-3,5	139	1023
19780	-3,5	167	1456
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 19780	0	0	0,104

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 Flaps UP Speed	ACC	0	F_1	MaxClimb	256.	0.
7	Accelerate to 300 kt	ACC	0	F_0	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	F_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	231. kN	0 m	328 ft	0. °	0 ft/min	-3. dB _A
End	172. knots	172.8 knots	190.24 kN	2138 m	328 ft	0. °	0 ft/min	-3. dB _A
Gain	172. knots	172.8 knots	-40.76 kN	2138 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	172.8 knots	190.24 kN	2138 m	328 ft	7.38 °	2248 ft/min	-3. dB _A
End	172. knots	176.7 knots	192.88 kN	5666 m	1828 ft	7.38 °	2298 ft/min	-3. dB _A
Gain	0. knots	3.9 knots	2.64 kN	3528 m	1500 ft	0. °	50 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	172. knots	176.7 knots	192.88 kN	5666 m	1828 ft	3.68 °	1148 ft/min	-3. dB _A
End	176. knots	181. knots	192.43 kN	5988 m	1896 ft	3.68 °	1176 ft/min	-3. dB _A
Gain	4. knots	4.3 knots	-0.45 kN	322 m	68 ft	0. °	28 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	181. knots	192.43 kN	5988 m	1896 ft	3.9 °	1246 ft/min	-3. dB _A
End	196. knots	202.6 knots	190.25 kN	7637 m	2265 ft	3.9 °	1396 ft/min	-3. dB _A
Gain	20. knots	21.6 knots	-2.18 kN	1649 m	369 ft	0. °	150 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	196. knots	202.6 knots	190.25 kN	7637 m	2265 ft	4.04 °	1446 ft/min	-3. dB _A
End	216. knots	224.7 knots	188.22 kN	9443 m	2684 ft	4.04 °	1603 ft/min	-3.5 dB _A
Gain	20. knots	22.1 knots	-2.03 kN	1806 m	419 ft	0. °	157 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	216. knots	224.7 knots	188.22 kN	9443 m	2684 ft	4.07 °	1615 ft/min	-3.5 dB _A
End	256. knots	270.3 knots	184.61 kN	13740 m	3686 ft	4.07 °	1943 ft/min	-3.5 dB _A
Gain	40. knots	45.6 knots	-3.61 kN	4297 m	1002 ft	0. °	328 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	256. knots	270.3 knots	184.61 kN	13740 m	3686 ft	4.1 °	1957 ft/min	-3.5 dB _A
End	300. knots	323.7 knots	181.42 kN	19776 m	5104 ft	4.1 °	2344 ft/min	-3.5 dB _A
Gain	44. knots	53.4 knots	-3.19 kN	6036 m	1418 ft	0. °	387 ft/min	0. dB _A

Segment 8 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	323.7 knots	181.42 kN	19776 m	5104 ft	5.94 °	3392 ft/min	-3.5 dB _A
End	300. knots	380.1 knots	204.82 kN	49717 m	15328 ft	5.94 °	3984 ft/min	-2.5 dB _A
Gain	0. knots	56.4 knots	23.4 kN	29941 m	10224 ft	0. °	592 ft/min	1. dB _A

NADP1-UNL

7773ER 100% MTOM

Fixpunktprofil nach AzB

σ' [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
17130	-6	133	1215
20780	-6,5	145	1389
29470	-7	169	1781
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 29470	0	0	0,064

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	Climb to 3000 ft	CS	1.	FLAP_5	MaxClimb	3000.	0.
4	Accelerate to Flaps 1 Speed	ACC	0	FLAP_5	MaxClimb	242.	0.
5	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	262.	0.
6	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
7	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	489. kN	0 m	328 ft	0. °	0 ft/min	-1. dB _A
End	200. knots	200.9 knots	384.65 kN	3112 m	328 ft	0. °	0 ft/min	-1. dB _A
Gain	200. knots	200.9 knots	-104.35 kN	3112 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	200.9 knots	384.65 kN	3112 m	328 ft	8.46 °	2994 ft/min	-1. dB _A
End	200. knots	205.4 knots	387.76 kN	6185 m	1828 ft	8.46 °	3061 ft/min	-0.5 dB _A
Gain	0. knots	4.5 knots	3.11 kN	3073 m	1500 ft	0. °	67 ft/min	0.5 dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	205.4 knots	313.02 kN	6185 m	1828 ft	5.73 °	2077 ft/min	-5.5 dB _A
End	200. knots	210.1 knots	320.39 kN	10740 m	3328 ft	5.73 °	2124 ft/min	-5.5 dB _A
Gain	0. knots	4.7 knots	7.37 kN	4555 m	1500 ft	0. °	47 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	210.1 knots	320.39 kN	10740 m	3328 ft	2.69 °	999 ft/min	-5.5 dB _A
End	242. knots	258. knots	302.93 kN	17133 m	4315 ft	2.69 °	1226 ft/min	-6. dB _A
Gain	42. knots	47.9 knots	-17.46 kN	6393 m	987 ft	0. °	227 ft/min	-0.5 dB _A

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

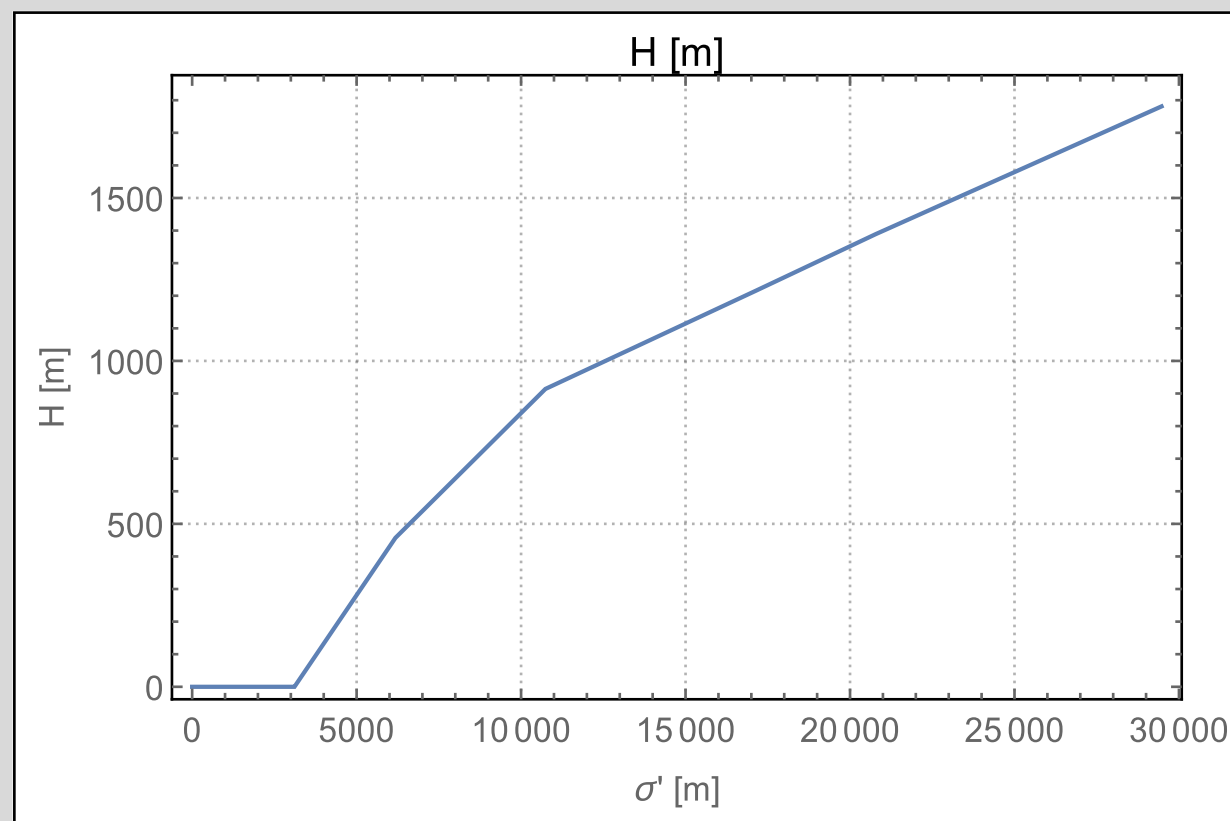
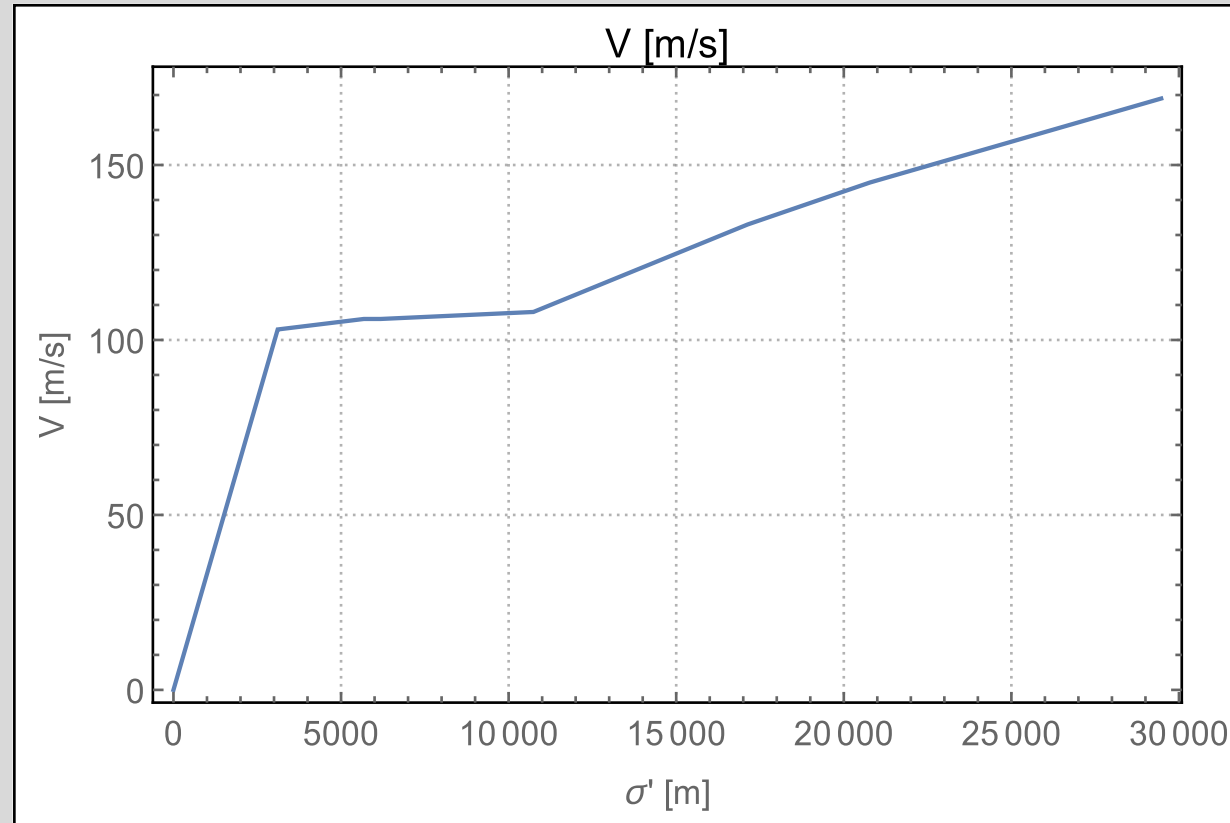
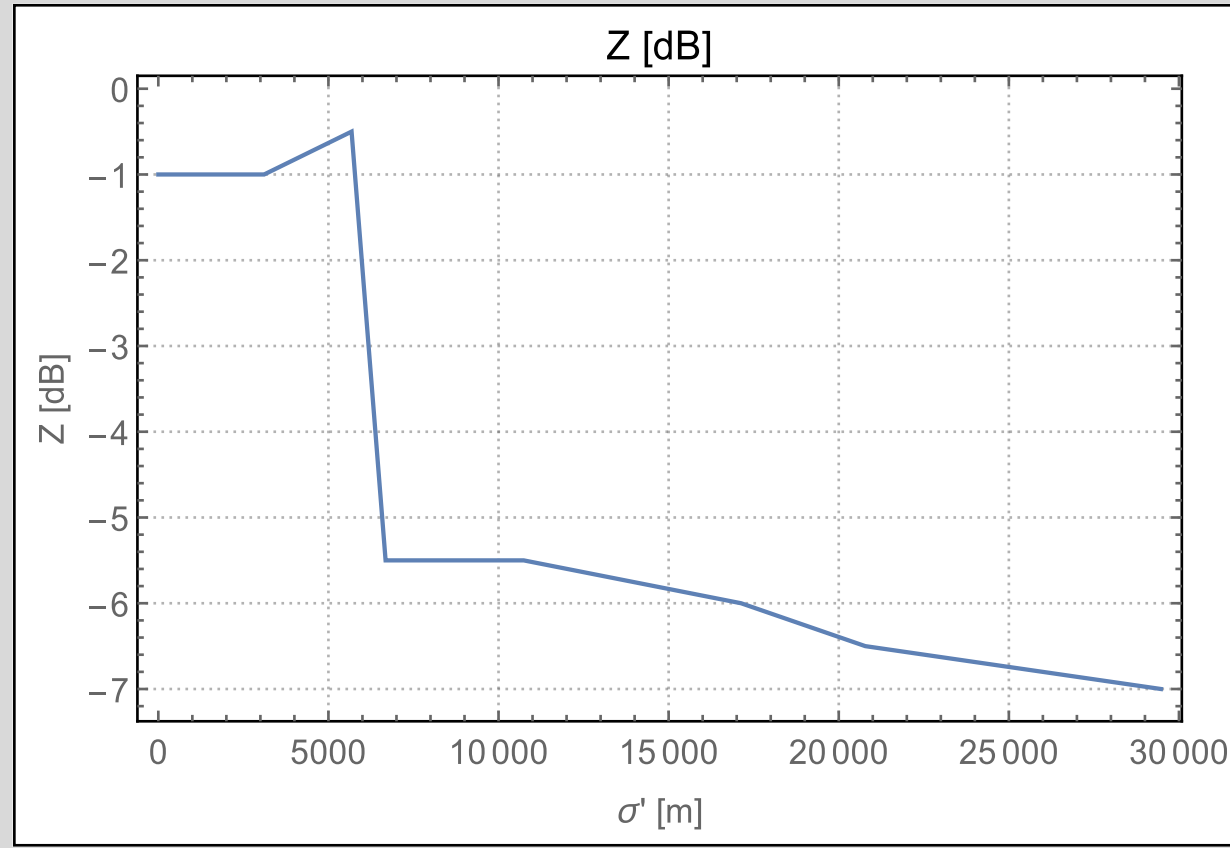
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	258. knots	302.93 kN	17133 m	4315 ft	2.73 °	1244 ft/min	-6. dB _A
End	262. knots	281.7 knots	295.06 kN	20775 m	4884 ft	2.73 °	1359 ft/min	-6.5 dB _A
Gain	20. knots	23.7 knots	-7.87 kN	3642 m	569 ft	0. °	115 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	262. knots	281.7 knots	295.06 kN	20775 m	4884 ft	2.58 °	1284 ft/min	-6.5 dB _A
End	300. knots	328.9 knots	281.03 kN	29468 m	6171 ft	2.58 °	1500 ft/min	-7. dB _A
Gain	38. knots	47.2 knots	-14.03 kN	8693 m	1287 ft	0. °	216 ft/min	-0.5 dB _A

Segment 7 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	328.9 knots	281.03 kN	29468 m	6171 ft	3.68 °	2138 ft/min	-7. dB _A
End	300. knots	380.1 knots	321.34 kN	72876 m	15328 ft	3.68 °	2471 ft/min	-5.5 dB _A
Gain	0. knots	51.2 knots	40.31 kN	43408 m	9157 ft	0. °	333 ft/min	1.5 dB _A



NADP1-UNL

7773ER 75% MTOM

Fixpunktprofil nach AzB

σ' [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
13560	-8,5	126	1261
24490	-9,5	171	1943
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 24490	0	0	0,087

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	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 Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	229.	0.
6	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
7	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	361. kN	0 m	328 ft	0. °	0 ft/min	-8. dB _A
End	176. knots	176.8 knots	293.21 kN	2322 m	328 ft	0. °	0 ft/min	-8. dB _A
Gain	176. knots	176.8 knots	-67.79 kN	2322 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	176.8 knots	293.21 kN	2322 m	328 ft	8.61 °	2681 ft/min	-8. dB _A
End	176. knots	180.8 knots	295.5 kN	5340 m	1828 ft	8.61 °	2741 ft/min	-8. dB _A
Gain	0. knots	4. knots	2.29 kN	3018 m	1500 ft	0. °	60 ft/min	0. dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	180.8 knots	295.5 kN	5340 m	1828 ft	8.13 °	2589 ft/min	-8. dB _A
End	176. knots	184.9 knots	302.18 kN	8541 m	3328 ft	8.13 °	2648 ft/min	-8. dB _A
Gain	0. knots	4.1 knots	6.68 kN	3201 m	1500 ft	0. °	59 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	184.9 knots	302.18 kN	8541 m	3328 ft	3.93 °	1283 ft/min	-8. dB _A
End	209. knots	221.7 knots	289.24 kN	11473 m	3989 ft	3.93 °	1539 ft/min	-8.5 dB _A
Gain	33. knots	36.8 knots	-12.94 kN	2932 m	661 ft	0. °	256 ft/min	-0.5 dB _A

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

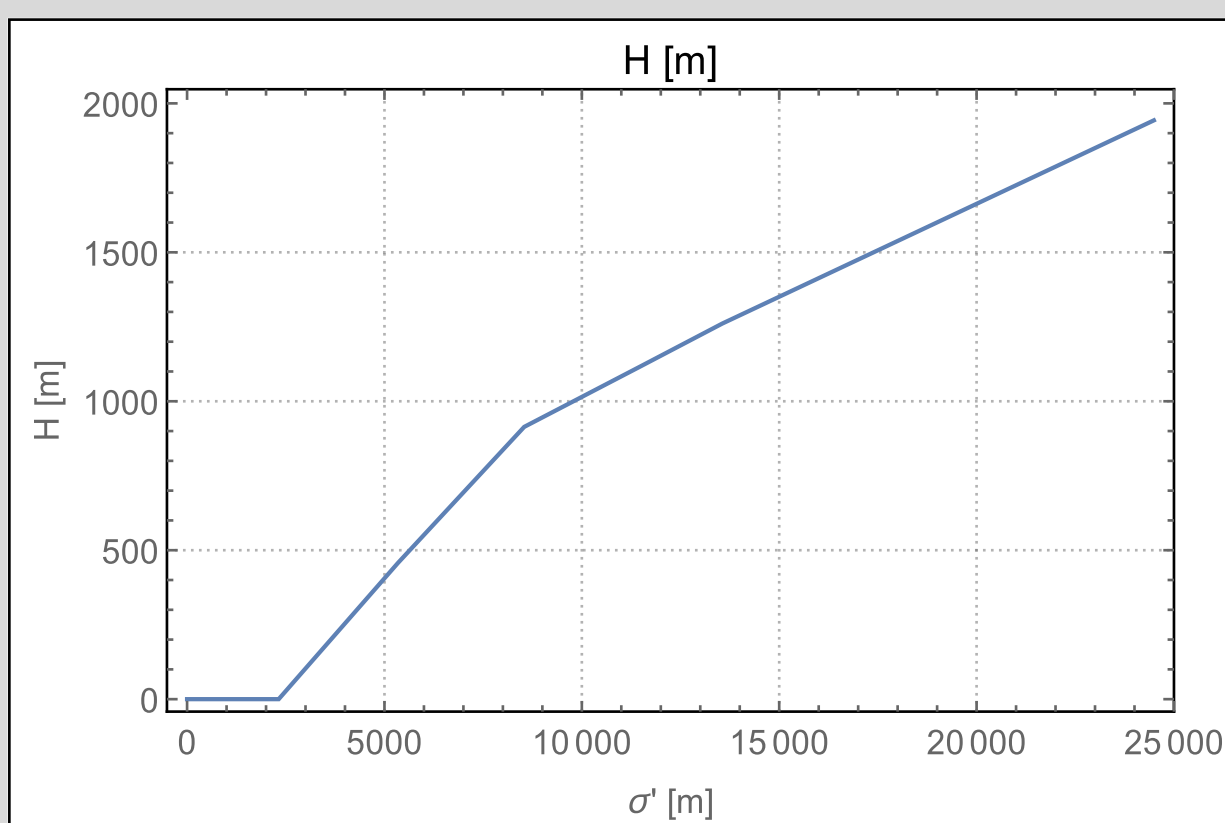
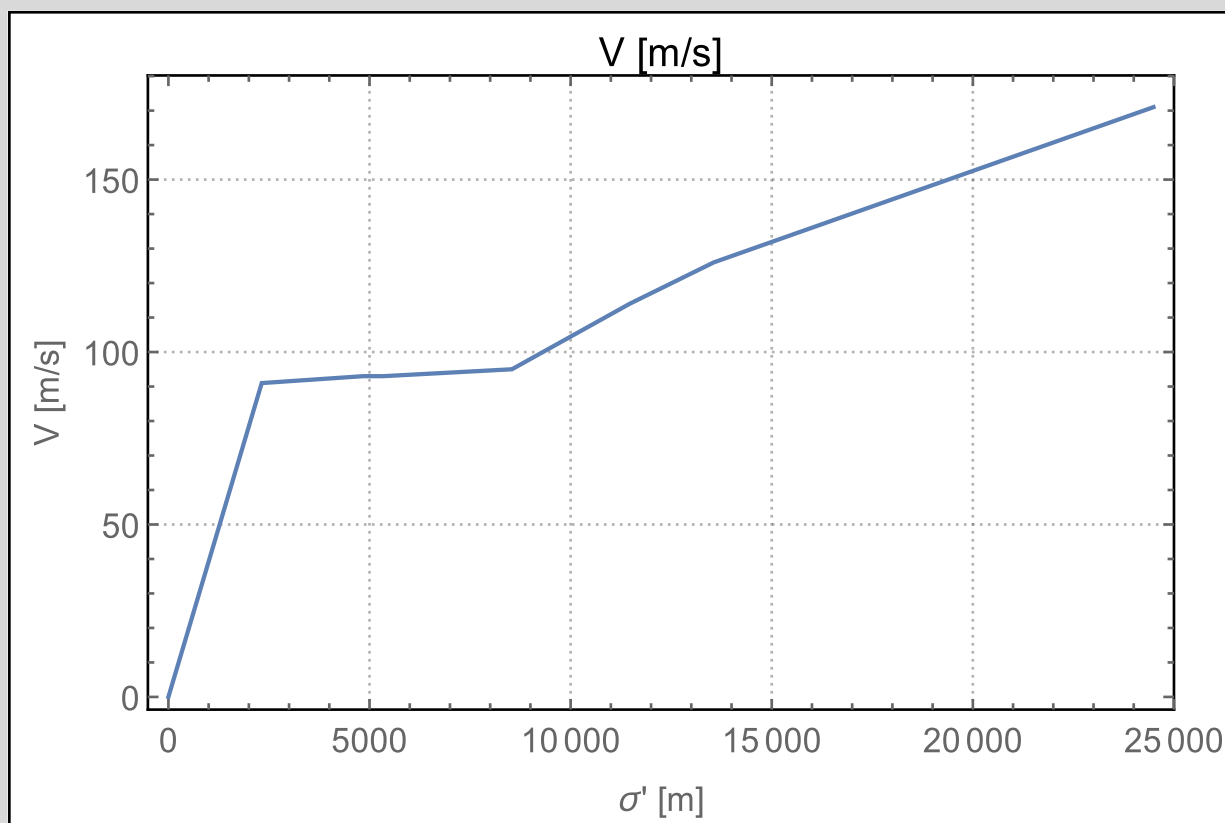
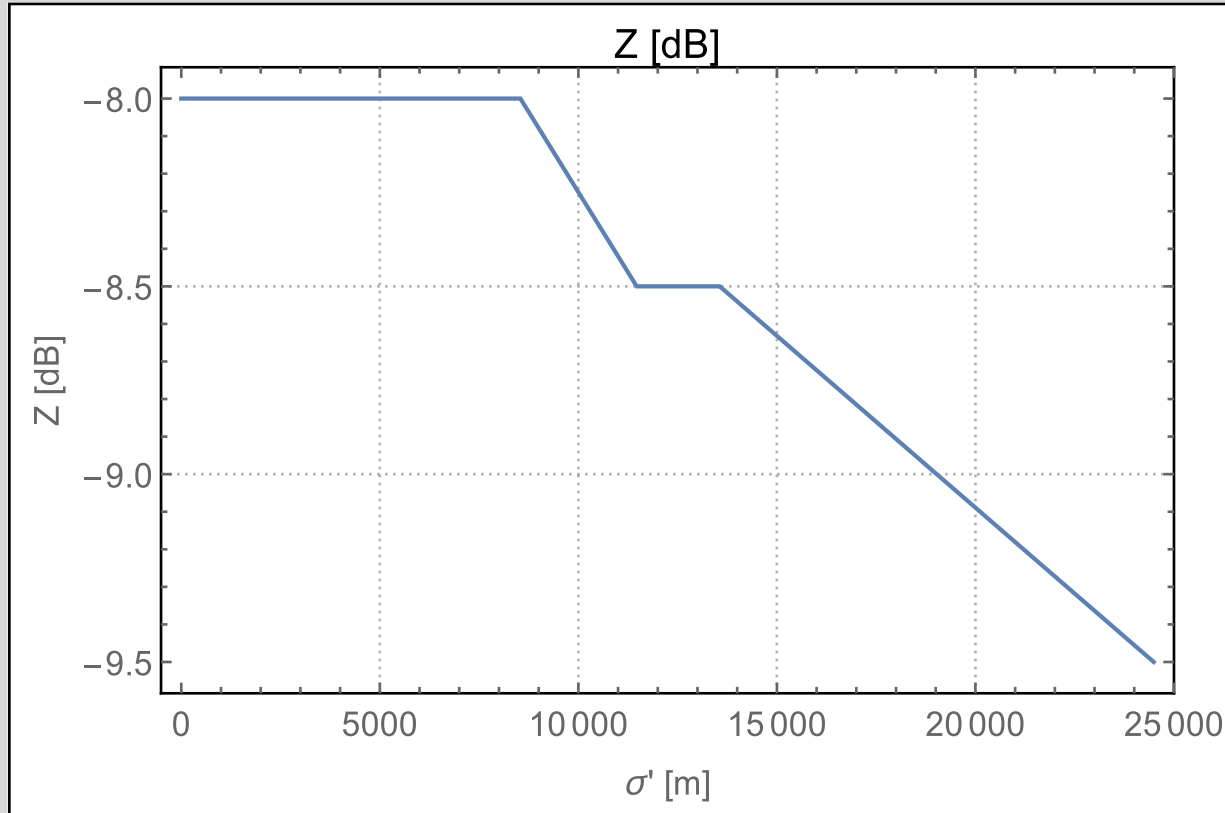
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	221.7 knots	289.24 kN	11473 m	3989 ft	3.97 °	1554 ft/min	-8.5 dB _A
End	229. knots	244.7 knots	281.71 kN	13564 m	4465 ft	3.97 °	1716 ft/min	-8.5 dB _A
Gain	20. knots	23. knots	-7.53 kN	2091 m	476 ft	0. °	162 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	244.7 knots	281.71 kN	13564 m	4465 ft	3.57 °	1543 ft/min	-8.5 dB _A
End	300. knots	331.7 knots	257.2 kN	24489 m	6703 ft	3.57 °	2091 ft/min	-9.5 dB _A
Gain	71. knots	87. knots	-24.51 kN	10925 m	2238 ft	0. °	548 ft/min	-1. dB _A

Segment 7 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	331.7 knots	257.21 kN	24489 m	6703 ft	4.95 °	2898 ft/min	-9.5 dB _A
End	300. knots	380.1 knots	291.52 kN	54837 m	15328 ft	4.95 °	3321 ft/min	-8. dB _A
Gain	0. knots	48.4 knots	34.31 kN	30348 m	8625 ft	0. °	423 ft/min	1.5 dB _A



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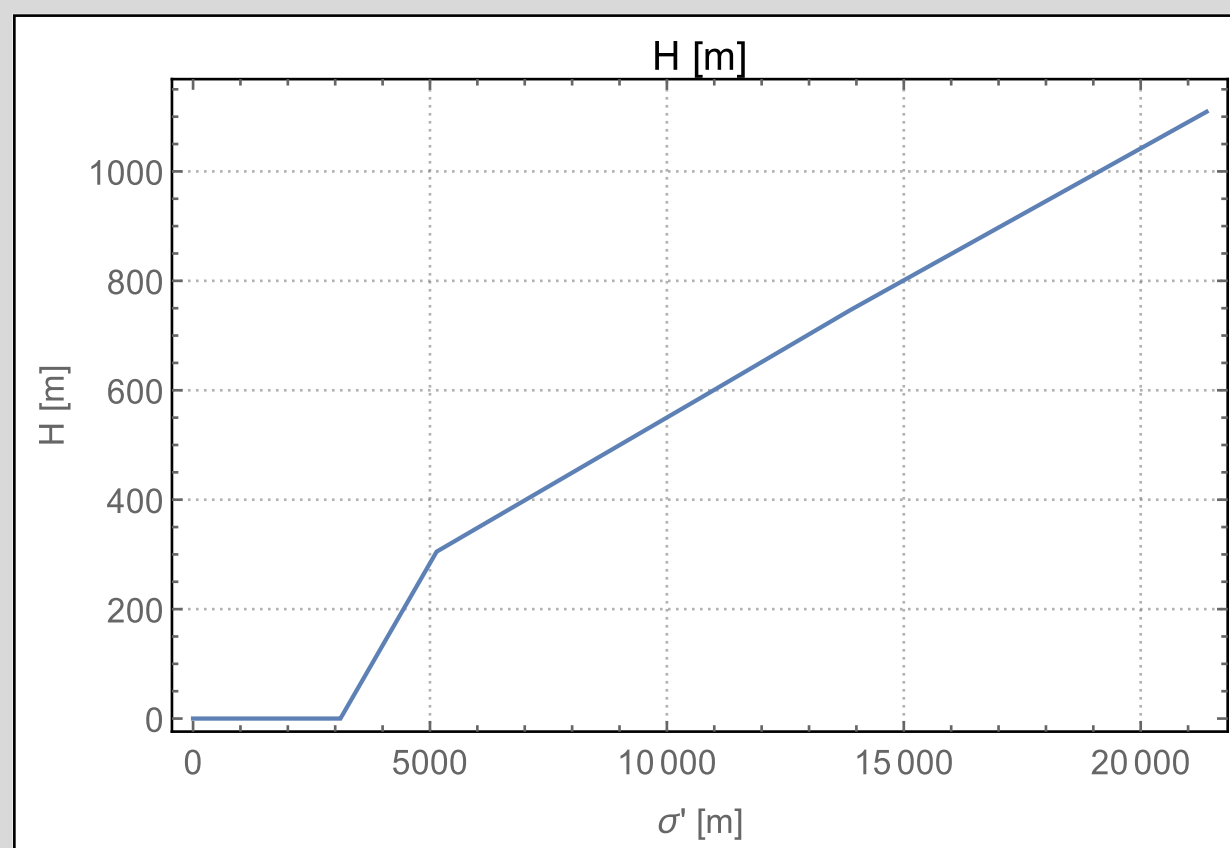
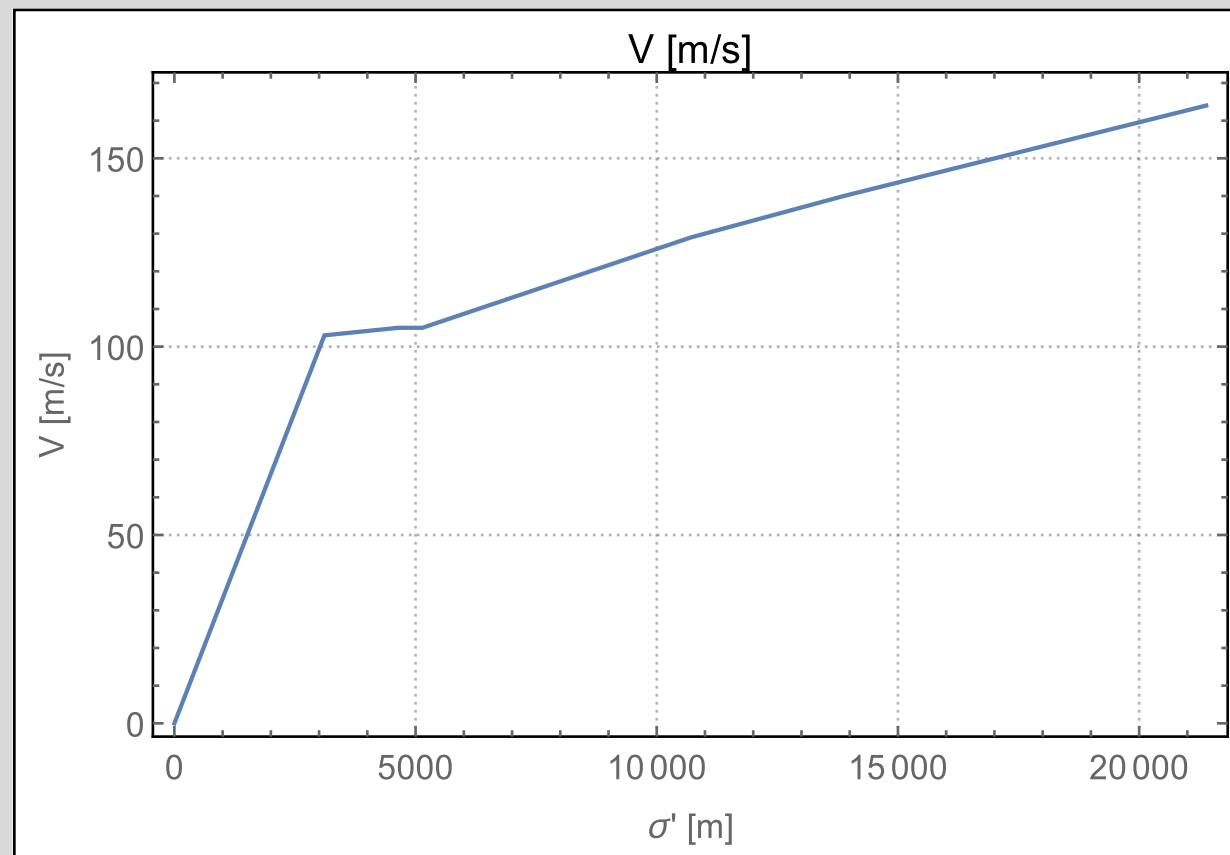
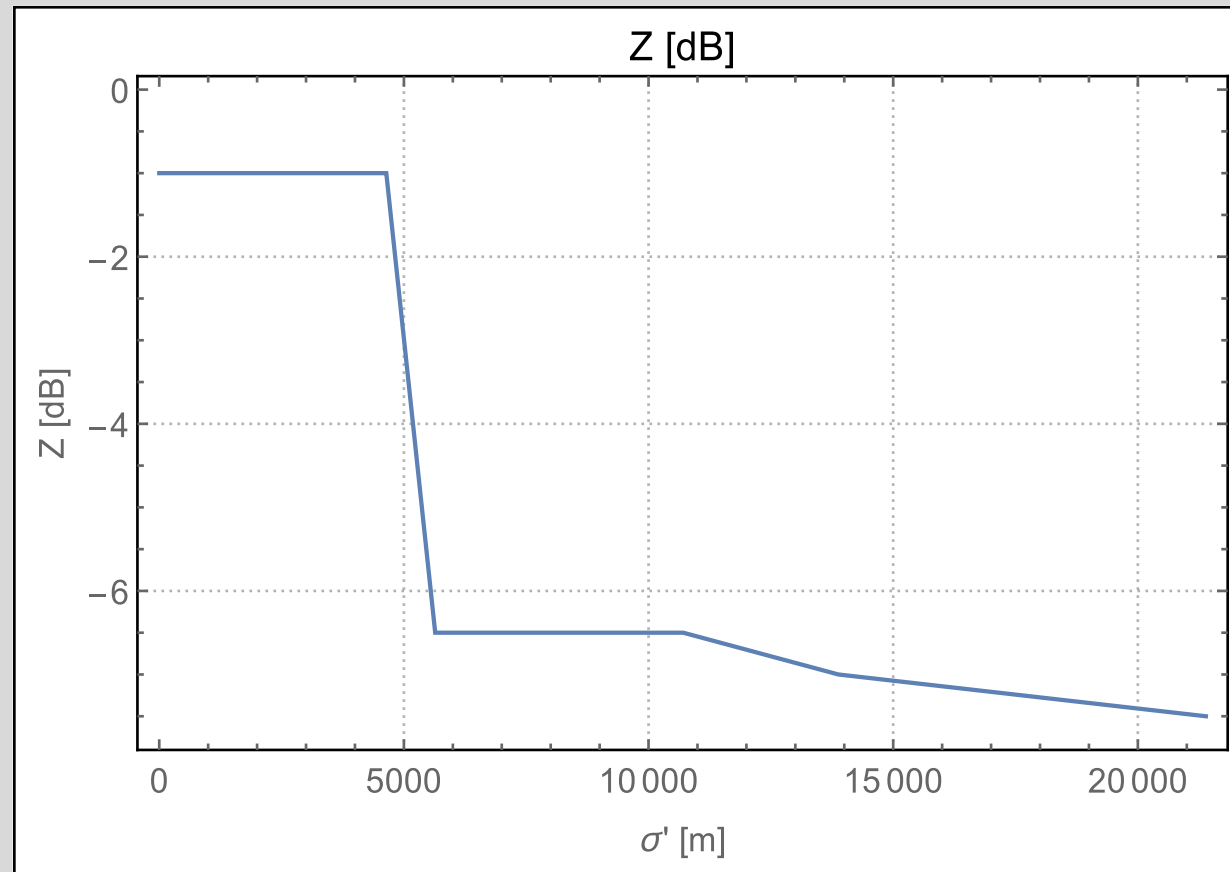
7773ER 100% MTOM

Fixpunktprofil nach AzB

σ' [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3110	-1	103	0
4640	-1	105	-
5140	-	105	305
5640	-6,5	-	-
10710	-6,5	129	586
13880	-7	140	747
21390	-7,5	164	1109
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 21390	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	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	242.	0.
4	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	262.	0.
5	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	489. kN	0 m	328 ft	0. °	0 ft/min	-1. dB _A
End	200. knots	200.9 knots	384.65 kN	3112 m	328 ft	0. °	0 ft/min	-1. dB _A
Gain	200. knots	200.9 knots	-104.35 kN	3112 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	200.9 knots	384.65 kN	3112 m	328 ft	8.56 °	3029 ft/min	-1. dB _A
End	200. knots	203.9 knots	386.96 kN	5137 m	1328 ft	8.56 °	3074 ft/min	-1. dB _A
Gain	0. knots	3. knots	2.31 kN	2025 m	1000 ft	0. °	45 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	203.9 knots	310.54 kN	5137 m	1328 ft	2.89 °	1041 ft/min	-6. dB _A
End	242. knots	250.1 knots	292.88 kN	10709 m	2251 ft	2.89 °	1277 ft/min	-6.5 dB _A
Gain	42. knots	46.2 knots	-17.66 kN	5572 m	923 ft	0. °	236 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	250.1 knots	292.88 kN	10709 m	2251 ft	2.91 °	1286 ft/min	-6.5 dB _A
End	262. knots	273. knots	284.9 kN	13879 m	2780 ft	2.91 °	1403 ft/min	-7. dB _A
Gain	20. knots	22.9 knots	-7.98 kN	3170 m	529 ft	0. °	117 ft/min	-0.5 dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	262. knots	273. knots	284.9 kN	13879 m	2780 ft	2.76 °	1331 ft/min	-7. dB _A
End	300. knots	318.2 knots	270.55 kN	21393 m	3967 ft	2.76 °	1551 ft/min	-7.5 dB _A
Gain	38. knots	45.2 knots	-14.35 kN	7514 m	1187 ft	0. °	220 ft/min	-0.5 dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	318.2 knots	270.55 kN	21393 m	3967 ft	3.88 °	2180 ft/min	-7.5 dB _A
End	300. knots	380.1 knots	321.34 kN	72424 m	15328 ft	3.88 °	2605 ft/min	-5.5 dB _A
Gain	0. knots	61.9 knots	50.79 kN	51031 m	11361 ft	0. °	425 ft/min	2. dB _A

NADP2-10-UNL

7773ER 75% MTOM

Fixpunktprofil nach AzB

σ' [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
8700	-9	122	630
18120	-10	165	1259
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 18120	0	0	0,092

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 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 Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	229.	0.
5	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	361. kN	0 m	328 ft	0. °	0 ft/min	-8. dB _A
End	176. knots	176.8 knots	293.21 kN	2322 m	328 ft	0. °	0 ft/min	-8. dB _A
Gain	176. knots	176.8 knots	-67.79 kN	2322 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	176.8 knots	293.21 kN	2322 m	328 ft	8.71 °	2712 ft/min	-8. dB _A
End	176. knots	179.4 knots	294.92 kN	4311 m	1328 ft	8.71 °	2752 ft/min	-8. dB _A
Gain	0. knots	2.6 knots	1.71 kN	1989 m	1000 ft	0. °	40 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	179.4 knots	294.92 kN	4311 m	1328 ft	4.23 °	1340 ft/min	-8. dB _A
End	209. knots	215.1 knots	281.8 kN	6873 m	1949 ft	4.23 °	1606 ft/min	-8.5 dB _A
Gain	33. knots	35.7 knots	-13.12 kN	2562 m	621 ft	0. °	266 ft/min	-0.5 dB _A

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

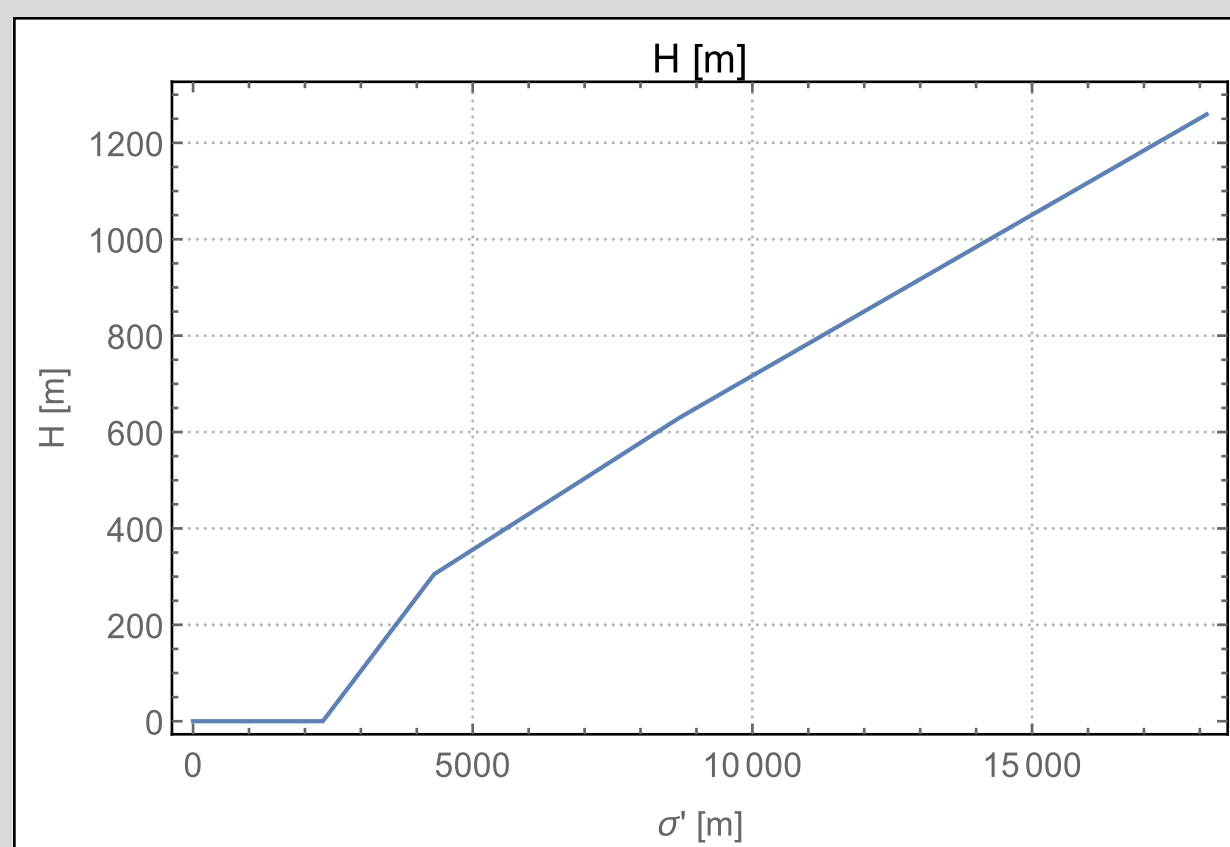
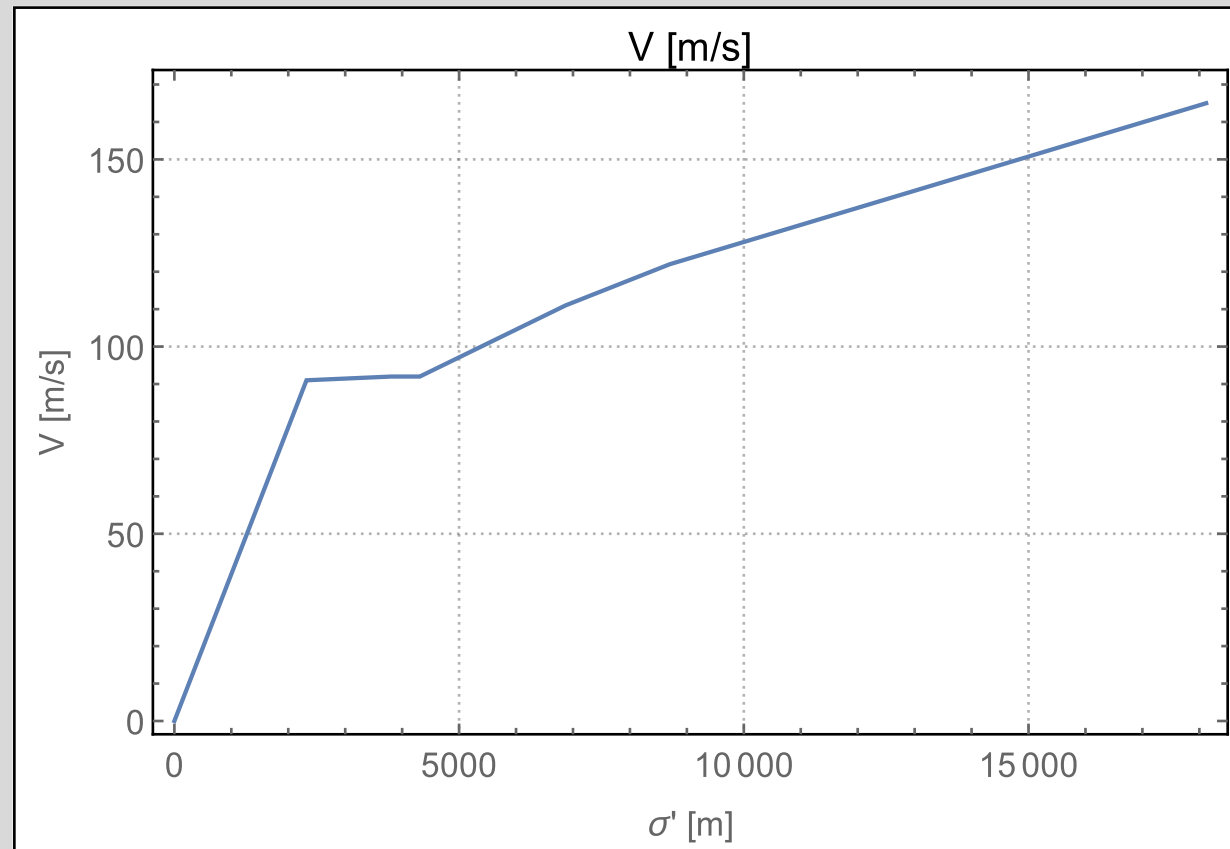
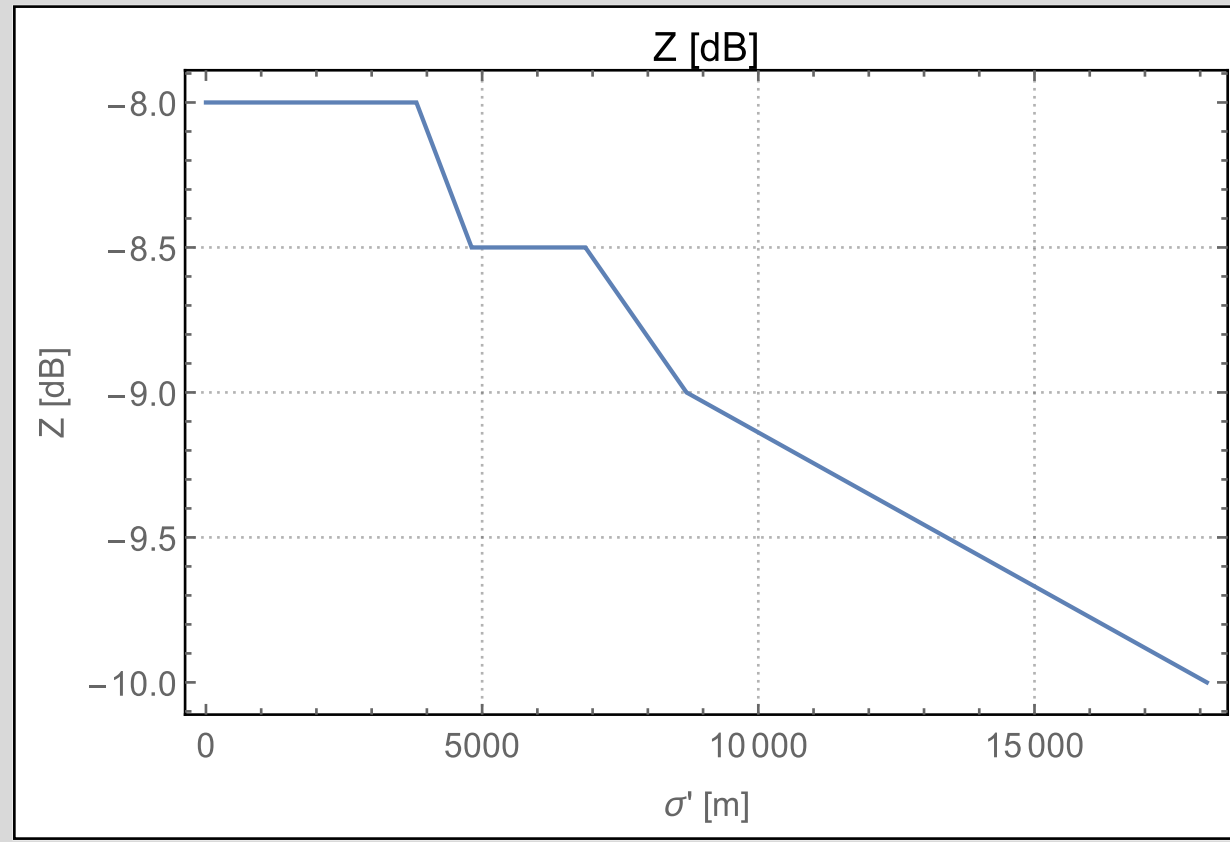
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	215.1 knots	281.8 kN	6873 m	1949 ft	4.25 °	1614 ft/min	-8.5 dB _A
End	229. knots	237.2 knots	274.14 kN	8700 m	2394 ft	4.25 °	1780 ft/min	-9. dB _A
Gain	20. knots	22.1 knots	-7.66 kN	1827 m	445 ft	0. °	166 ft/min	-0.5 dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	237.2 knots	274.14 kN	8700 m	2394 ft	3.82 °	1600 ft/min	-9. dB _A
End	300. knots	320.5 knots	249. kN	18118 m	4458 ft	3.82 °	2162 ft/min	-10. dB _A
Gain	71. knots	83.3 knots	-25.14 kN	9418 m	2064 ft	0. °	562 ft/min	-1. dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	320.5 knots	249. kN	18118 m	4458 ft	5.24 °	2964 ft/min	-10. dB _A
End	300. knots	380.1 knots	293.18 kN	54217 m	15328 ft	5.24 °	3515 ft/min	-8. dB _A
Gain	0. knots	59.6 knots	44.18 kN	36099 m	10870 ft	0. °	551 ft/min	2. dB _A



NADP2-15-UNL

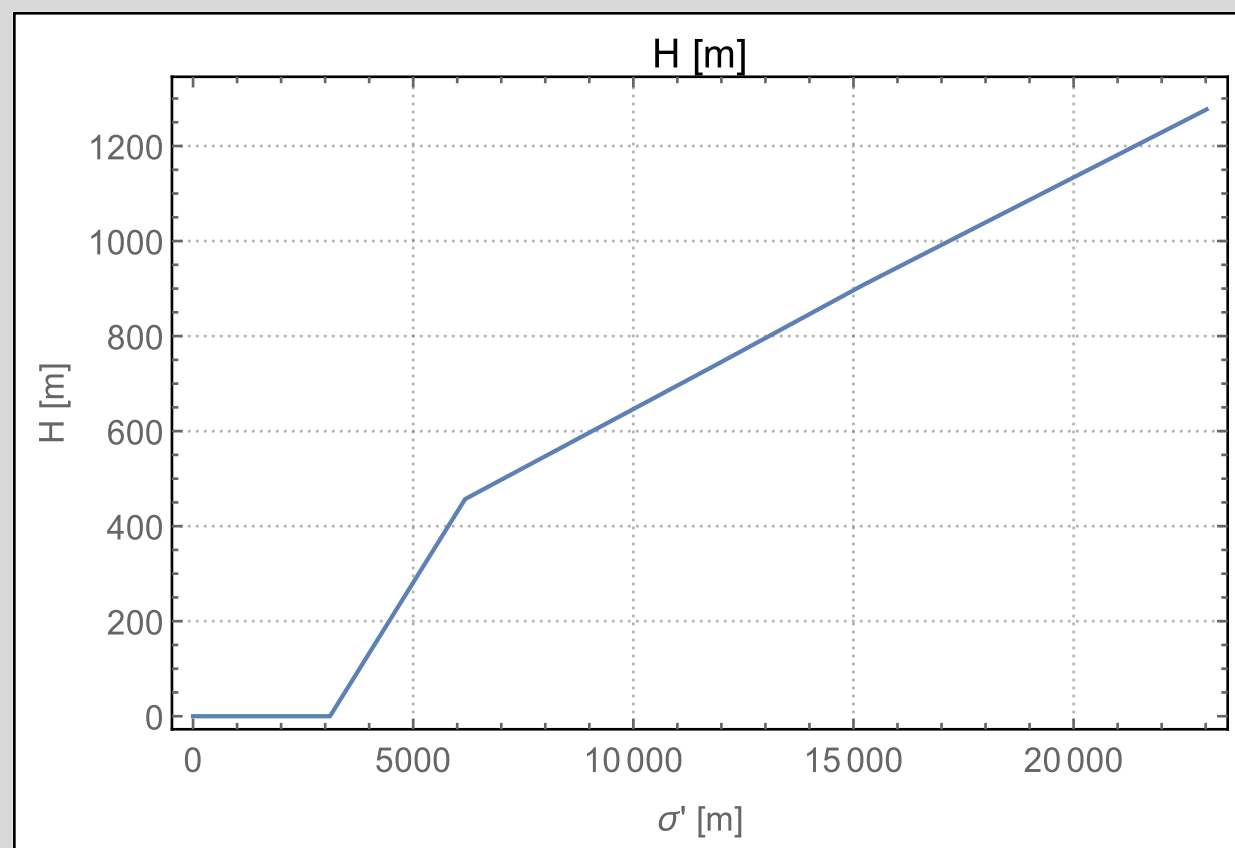
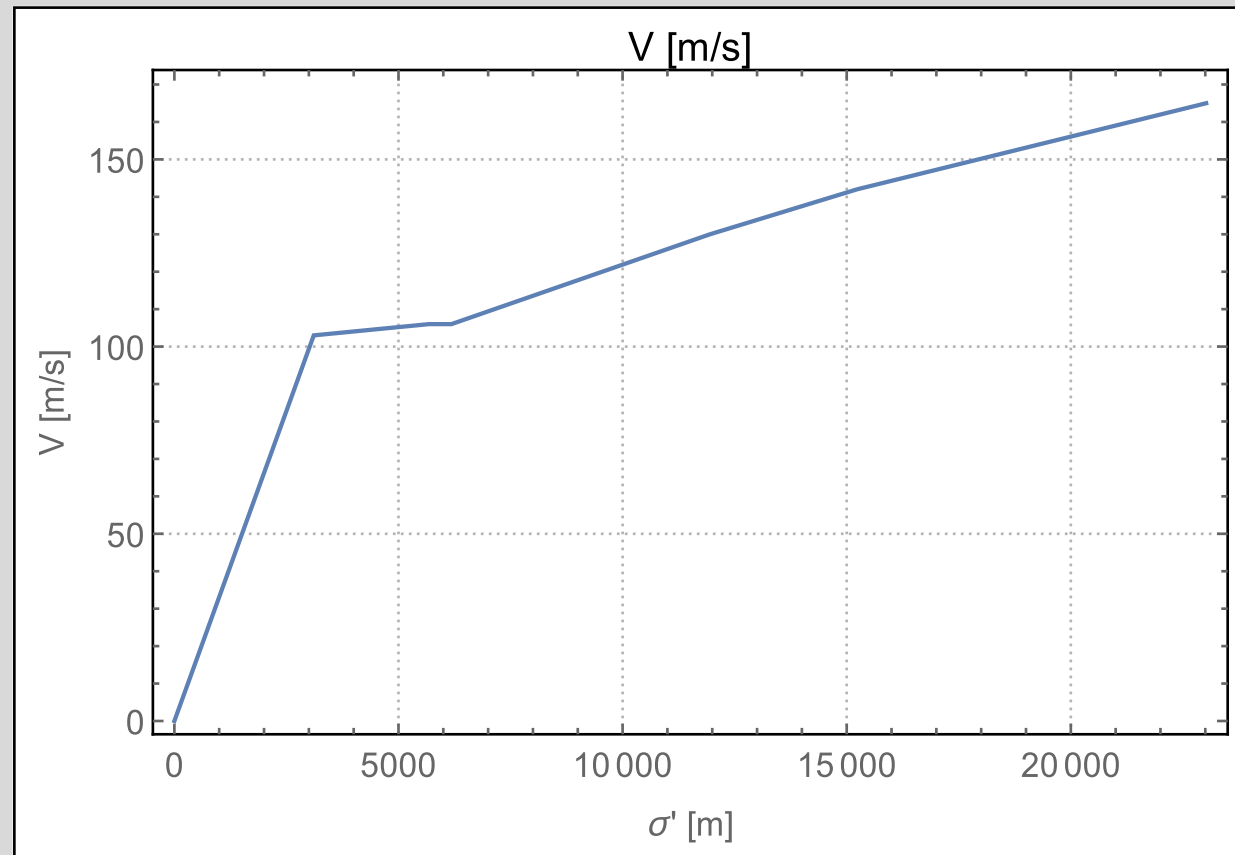
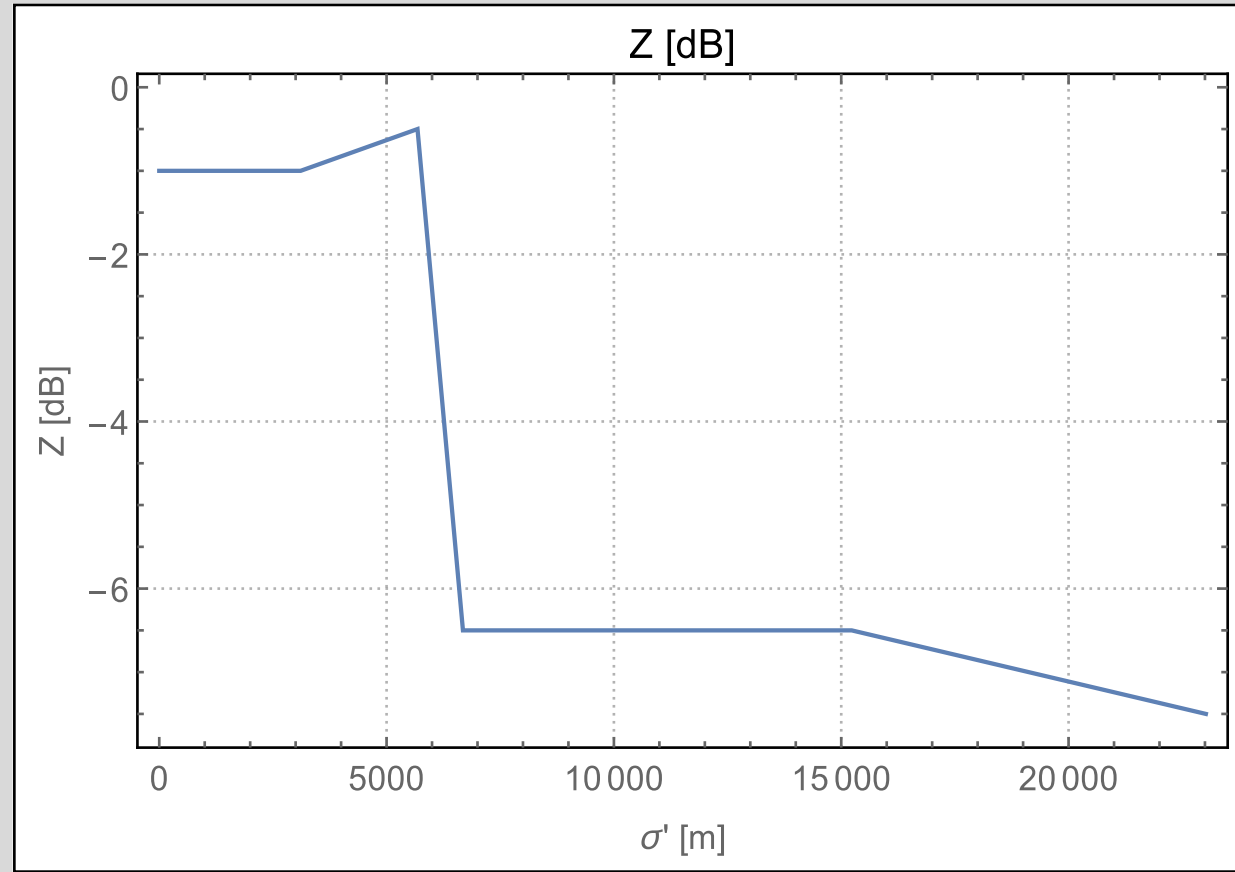
7773ER 100% MTOM

Fixpunktprofil nach AzB

σ' [m]	Z [dB]	V [m/s]	H [m]
0	-1	0	0
3110	-1	103	0
5680	-0,5	106	-
6180	-	106	457
6680	-6,5	-	-
11950	-6,5	130	743
15230	-6,5	142	908
23020	-7,5	165	1277
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 23020	0	0	0,067

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	Accelerate to Flaps 1 Speed	ACC	1.	FLAP_5	MaxClimb	242.	0.
4	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	262.	0.
5	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	489. kN	0 m	328 ft	0. °	0 ft/min	-1. dB _A
End	200. knots	200.9 knots	384.65 kN	3112 m	328 ft	0. °	0 ft/min	-1. dB _A
Gain	200. knots	200.9 knots	-104.35 kN	3112 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	200.9 knots	384.65 kN	3112 m	328 ft	8.46 °	2994 ft/min	-1. dB _A
End	200. knots	205.4 knots	387.76 kN	6185 m	1828 ft	8.46 °	3061 ft/min	-0.5 dB _A
Gain	0. knots	4.5 knots	3.11 kN	3073 m	1500 ft	0. °	67 ft/min	0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	200. knots	205.4 knots	313.02 kN	6185 m	1828 ft	2.84 °	1031 ft/min	-5.5 dB _A
End	242. knots	252. knots	295.42 kN	11948 m	2767 ft	2.84 °	1265 ft/min	-6.5 dB _A
Gain	42. knots	46.6 knots	-17.6 kN	5763 m	939 ft	0. °	234 ft/min	-1. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	252. knots	295.42 kN	11948 m	2767 ft	2.86 °	1274 ft/min	-6.5 dB _A
End	262. knots	275.1 knots	287.47 kN	15231 m	3306 ft	2.86 °	1390 ft/min	-6.5 dB _A
Gain	20. knots	23.1 knots	-7.95 kN	3283 m	539 ft	0. °	116 ft/min	0. dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	262. knots	275.1 knots	287.46 kN	15231 m	3306 ft	2.72 °	1322 ft/min	-6.5 dB _A
End	300. knots	320.9 knots	273.2 kN	23023 m	4519 ft	2.72 °	1542 ft/min	-7.5 dB _A
Gain	38. knots	45.8 knots	-14.26 kN	7792 m	1213 ft	0. °	220 ft/min	-1. dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	320.9 knots	273.2 kN	23023 m	4519 ft	3.83 °	2170 ft/min	-7.5 dB _A
End	300. knots	380.1 knots	321.34 kN	72262 m	15328 ft	3.83 °	2571 ft/min	-5.5 dB _A
Gain	0. knots	59.2 knots	48.14 kN	49239 m	10809 ft	0. °	401 ft/min	2. dB _A

NADP2-15-UNL

7773ER 75% MTOM

Fixpunktprofil nach AzB

σ' [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
9900	-9	123	787
19740	-9,5	166	1429

σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 19740	0	0	0,09

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	Accelerate to Flaps 1 Speed	ACC	1.	FLAP_5	MaxClimb	209.	0.
4	Accelerate to Flaps UP Speed	ACC	0	FLAP_1	MaxClimb	229.	0.
5	Accelerate to 300 kt	ACC	0	FLAP_0	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	FLAP_0	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	361. kN	0 m	328 ft	0. °	0 ft/min	-8. dB _A
End	176. knots	176.8 knots	293.21 kN	2322 m	328 ft	0. °	0 ft/min	-8. dB _A
Gain	176. knots	176.8 knots	-67.79 kN	2322 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	176.8 knots	293.21 kN	2322 m	328 ft	8.61 °	2681 ft/min	-8. dB _A
End	176. knots	180.8 knots	295.5 kN	5340 m	1828 ft	8.61 °	2741 ft/min	-8. dB _A
Gain	0. knots	4. knots	2.29 kN	3018 m	1500 ft	0. °	60 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	176. knots	180.8 knots	295.5 kN	5340 m	1828 ft	4.12 °	1315 ft/min	-8. dB _A
End	209. knots	216.7 knots	282.48 kN	8004 m	2458 ft	4.12 °	1577 ft/min	-8.5 dB _A
Gain	33. knots	35.9 knots	-13.02 kN	2664 m	630 ft	0. °	262 ft/min	-0.5 dB _A

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

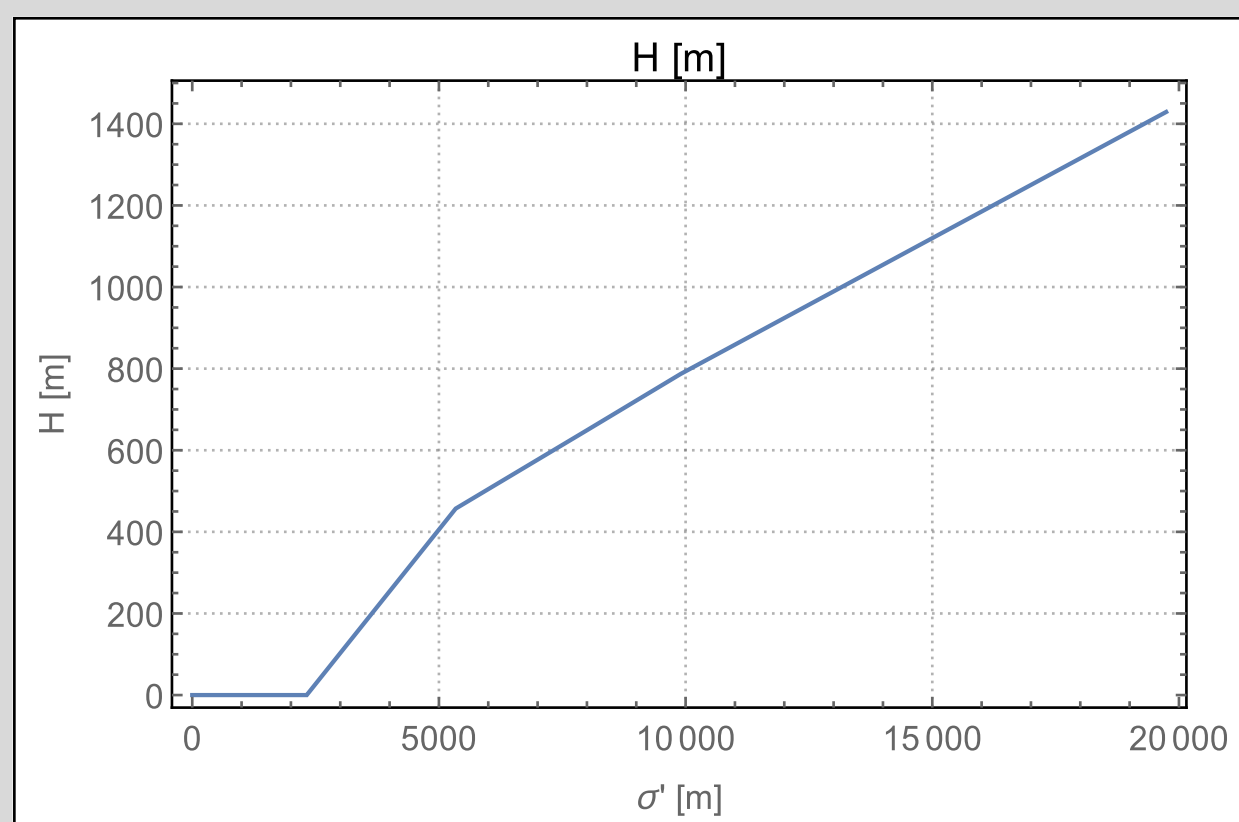
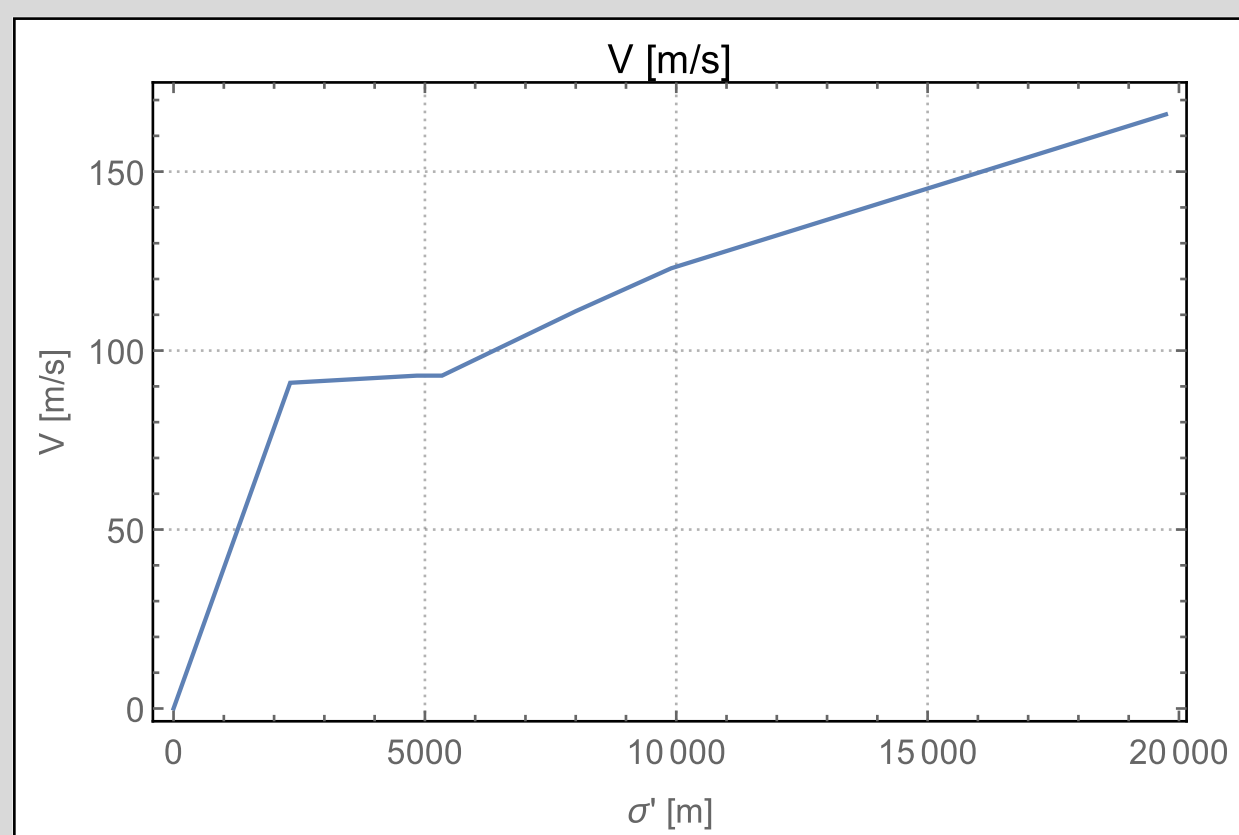
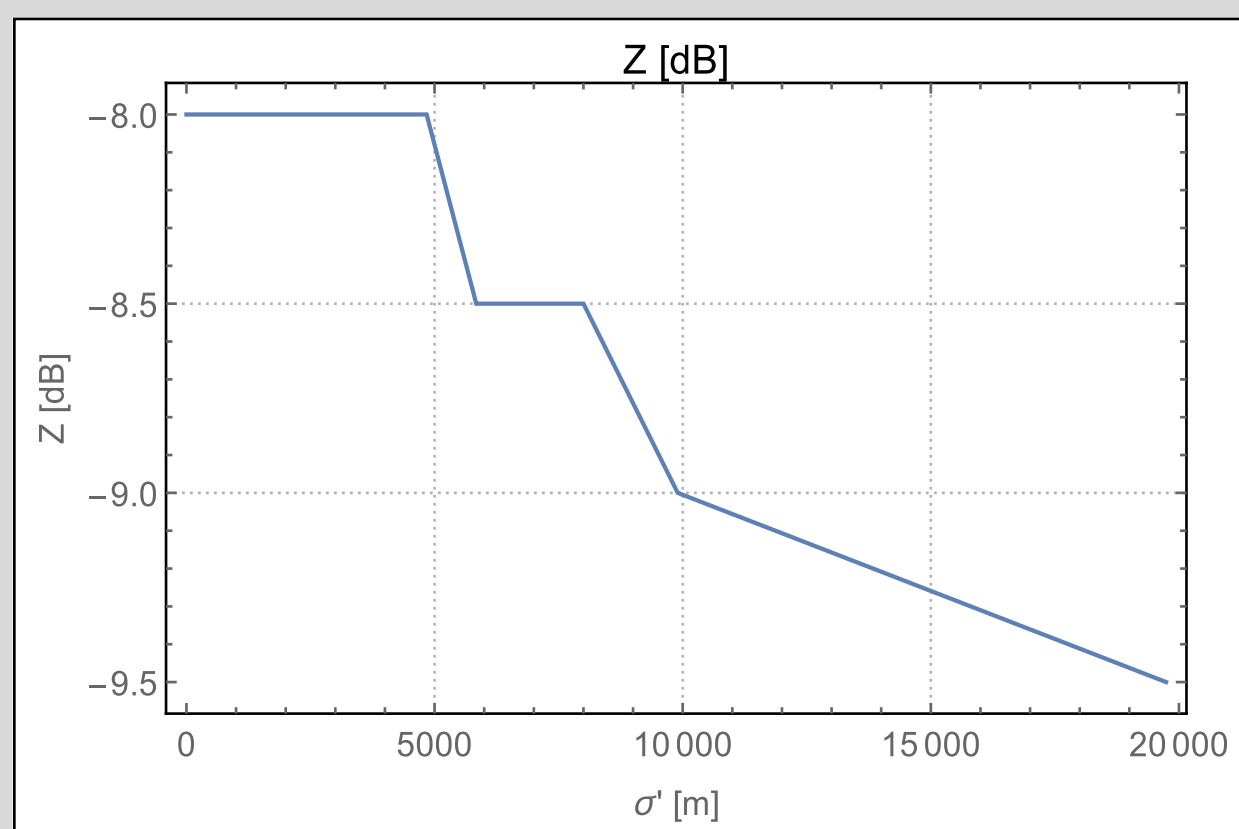
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	216.7 knots	282.47 kN	8004 m	2458 ft	4.15 °	1588 ft/min	-8.5 dB _A
End	229. knots	239. knots	274.88 kN	9904 m	2910 ft	4.15 °	1752 ft/min	-9. dB _A
Gain	20. knots	22.3 knots	-7.59 kN	1900 m	452 ft	0. °	164 ft/min	-0.5 dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	229. knots	239. knots	274.88 kN	9904 m	2910 ft	3.74 °	1579 ft/min	-9. dB _A
End	300. knots	323.3 knots	250.01 kN	19736 m	5017 ft	3.74 °	2135 ft/min	-9.5 dB _A
Gain	71. knots	84.3 knots	-24.87 kN	9832 m	2107 ft	0. °	556 ft/min	-0.5 dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	323.3 knots	250.01 kN	19736 m	5017 ft	5.14 °	2933 ft/min	-9.5 dB _A
End	300. knots	380.1 knots	291.52 kN	54689 m	15328 ft	5.14 °	3449 ft/min	-8. dB _A
Gain	0. knots	56.8 knots	41.51 kN	34953 m	10311 ft	0. °	516 ft/min	1.5 dB _A



NADP1-UNL

A320-211 95% MTOM

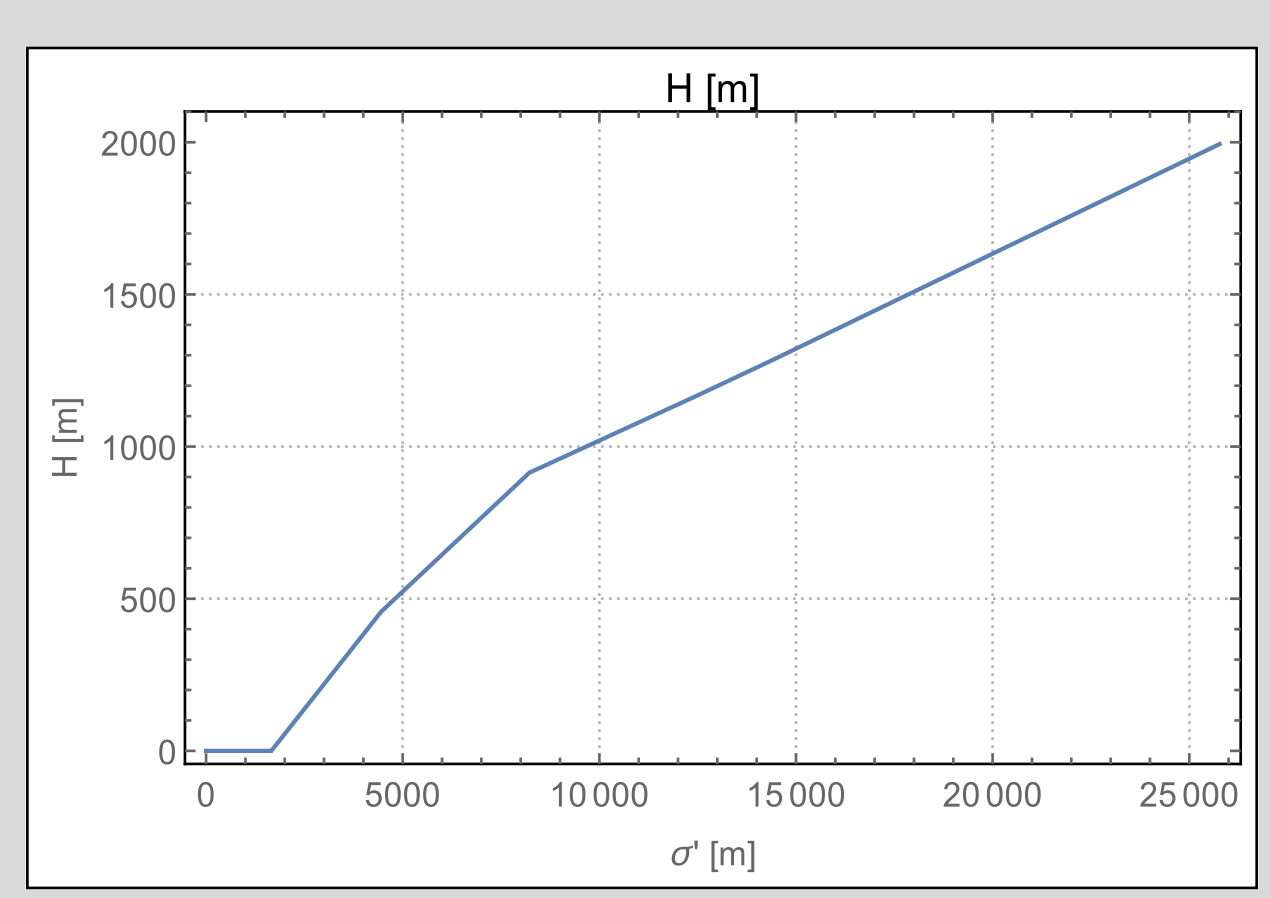
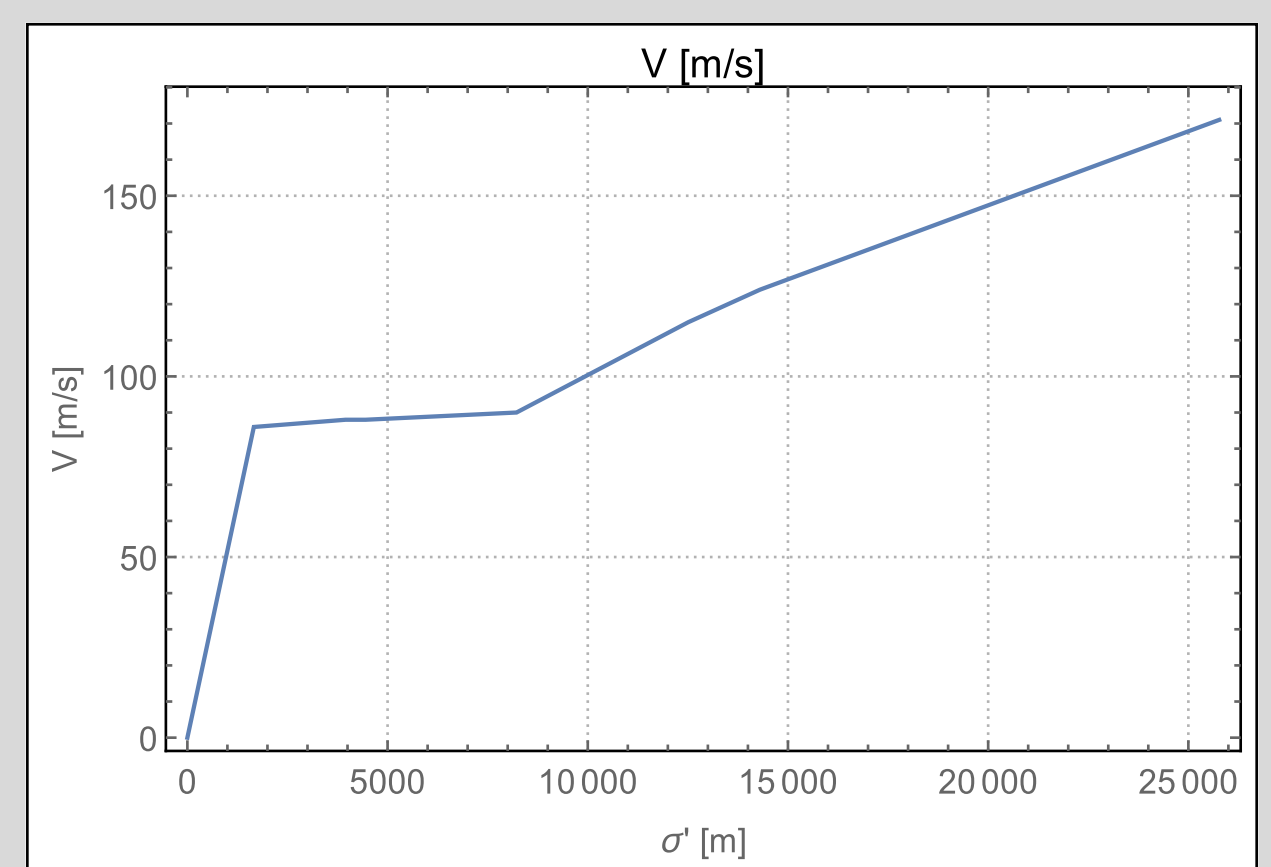
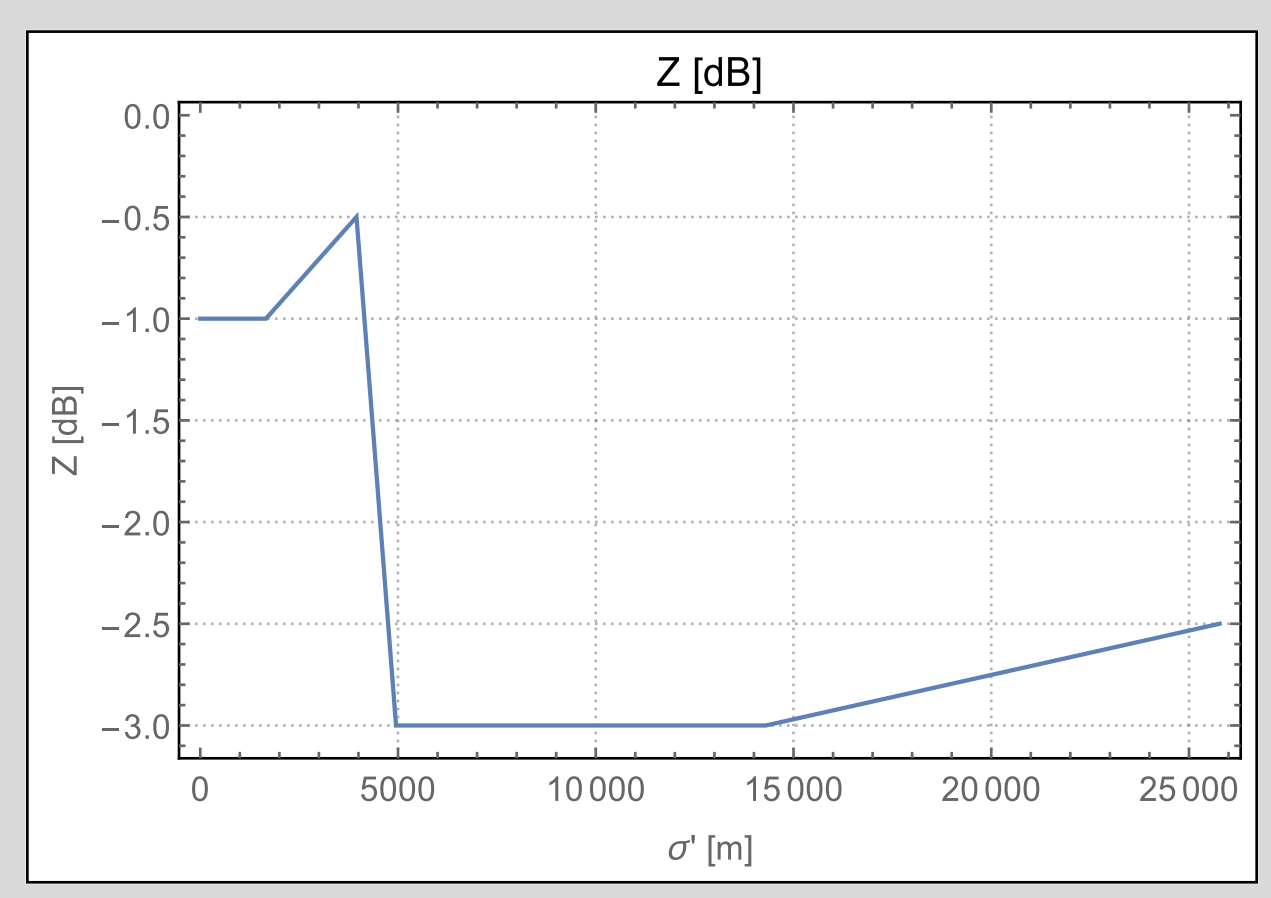
Fixpunktprofil nach AzB

σ' [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
14300	-3	124	1278
25770	-2,5	171	1994

σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 25770	0	0	0,093

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 Flaps UP Speed	ACC	0	1.	MaxClimb	225.	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	100.36 kN	0 m	328 ft	0.°	0 ft/min	-1. dB _A
End	167. knots	167.8 knots	84.18 kN	1656 m	328 ft	0.°	0 ft/min	-1. dB _A
Gain	167. knots	167.8 knots	-16.18 kN	1656 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	167.8 knots	84.18 kN	1656 m	328 ft	9.28°	2740 ft/min	-1. dB _A
End	167. knots	171.5 knots	85.98 kN	4454 m	1828 ft	9.28°	2801 ft/min	-0.5 dB _A
Gain	0. knots	3.7 knots	1.8 kN	2798 m	1500 ft	0.°	61 ft/min	0.5 dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	171.5 knots	73.28 kN	4454 m	1828 ft	6.92°	2093 ft/min	-3. dB _A
End	167. knots	175.4 knots	74.61 kN	8222 m	3328 ft	6.92°	2140 ft/min	-3. dB _A
Gain	0. knots	3.9 knots	1.33 kN	3768 m	1500 ft	0.°	47 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	175.4 knots	74.61 kN	8222 m	3328 ft	3.41°	1057 ft/min	-3. dB _A
End	210. knots	223.4 knots	74.53 kN	12506 m	4165 ft	3.41°	1345 ft/min	-3. dB _A
Gain	43. knots	48. knots	-0.08 kN	4284 m	837 ft	0.°	288 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	210. knots	223.4 knots	74.53 kN	12506 m	4165 ft	3.46°	1365 ft/min	-3. dB _A
End	225. knots	240.7 knots	74.57 kN	14295 m	4520 ft	3.46°	1471 ft/min	-3. dB _A
Gain	15. knots	17.3 knots	0.04 kN	1789 m	355 ft	0.°	106 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	225. knots	240.7 knots	74.57 kN	14295 m	4520 ft	3.57°	1517 ft/min	-3. dB _A
End	300. knots	332.5 knots	75.39 kN	25773 m	6869 ft	3.57°	2097 ft/min	-2.5 dB _A
Gain	75. knots	91.8 knots	0.82 kN	11478 m	2349 ft	0.°	580 ft/min	0.5 dB _A

Segment 7 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	332.5 knots	75.39 kN	25773 m	6869 ft	5.29°	3104 ft/min	-2.5 dB _A
End	300. knots	380.1 knots	84.79 kN	53641 m	15328 ft	5.29°	3549 ft/min	-1. dB _A
Gain	0. knots	47.6 knots	9.4 kN	27868 m	8459 ft	0.°	445 ft/min	1.5 dB _A

NADP1-UNL

A320-211 85% MTOM

Fixpunktprofil nach AzB

σ' [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
22880	-3	171	2021
> 22880	0	0	0,108

σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 22880	0	0	0,108

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 UP Speed	ACC	0	1+F	MaxClimb	211.	0.
5	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	90.55 kN	0 m	328 ft	0.°	0 ft/min	-2.5 dB _A
End	162. knots	162.7 knots	76.39 kN	1490 m	328 ft	0.°	0 ft/min	-2.5 dB _A
Gain	162. knots	162.7 knots	-14.16 kN	1490 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	76.39 kN	1490 m	328 ft	9.34°	2675 ft/min	-2.5 dB _A
End	162. knots	166.4 knots	78.01 kN	4269 m	1828 ft	9.34°	2735 ft/min	-2.5 dB _A
Gain	0. knots	3.7 knots	1.62 kN	2779 m	1500 ft	0.°	60 ft/min	0. dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	166.4 knots	73.37 kN	4269 m	1828 ft	8.11°	2377 ft/min	-3. dB _A
End	162. knots	170.2 knots	74.7 kN	7479 m	3328 ft	8.11°	2431 ft/min	-3. dB _A
Gain	0. knots	3.8 knots	1.33 kN	3210 m	1500 ft	0.°	54 ft/min	0. dB _A

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

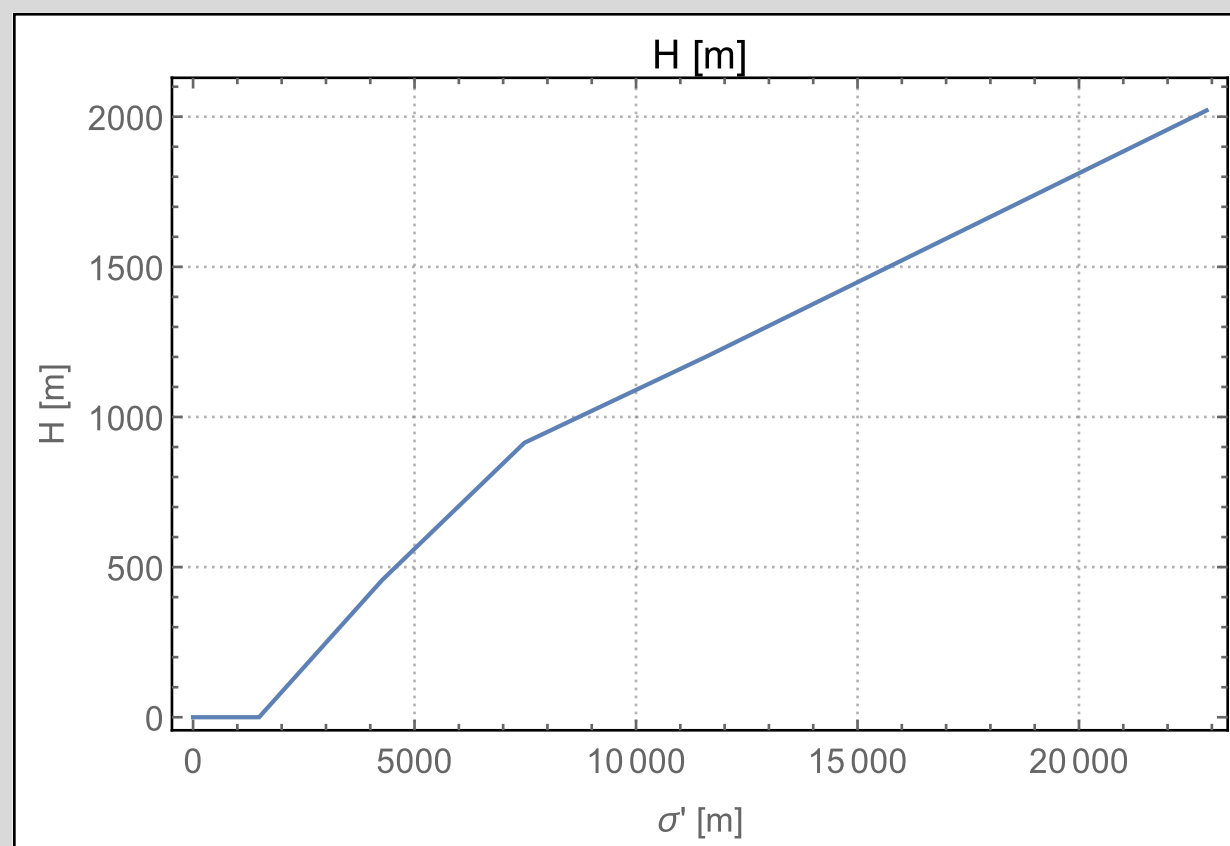
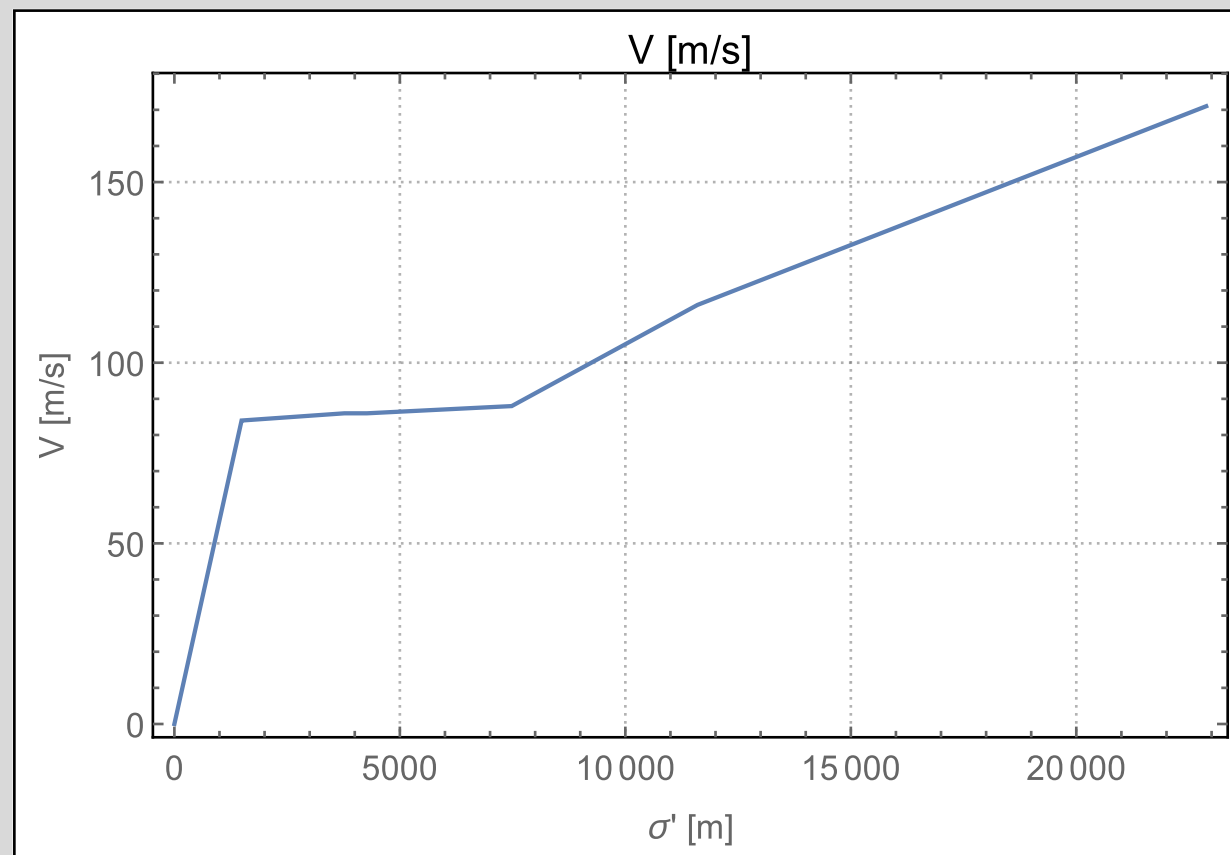
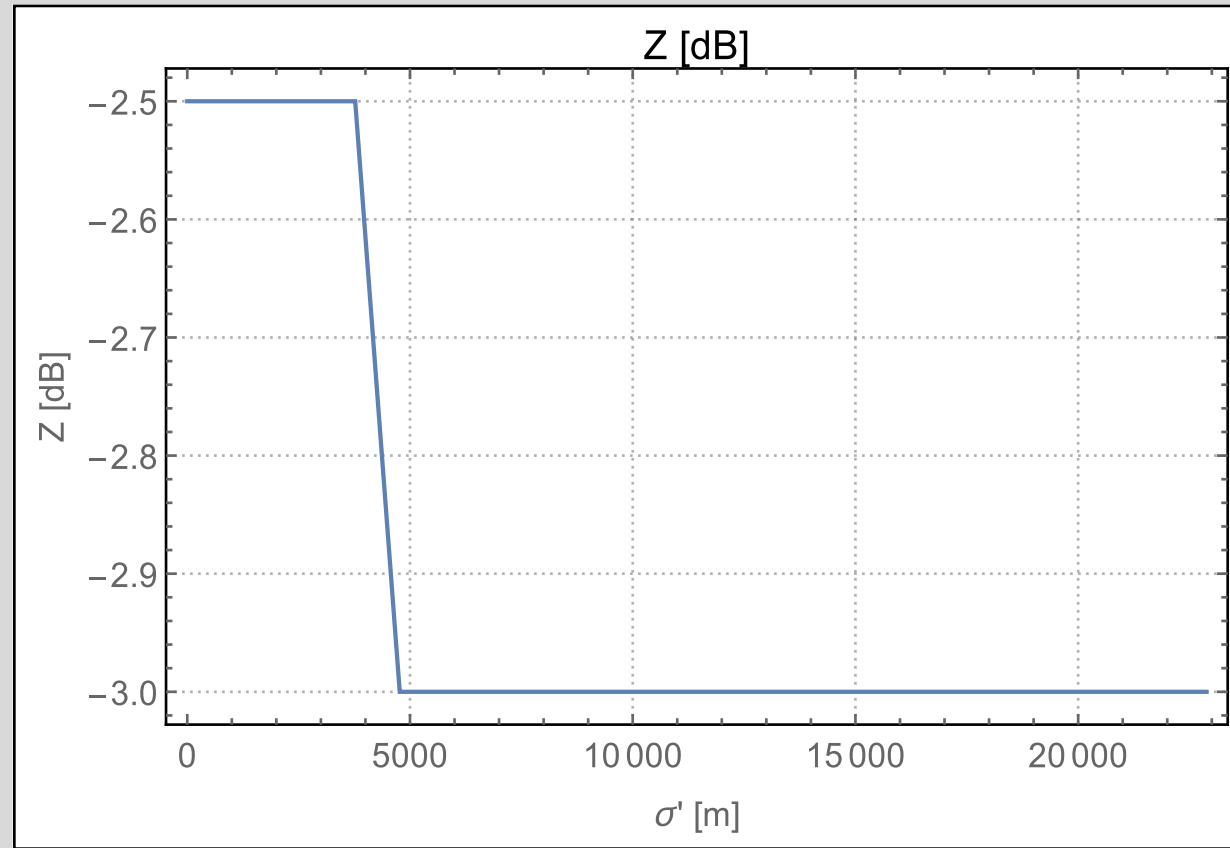
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	170.2 knots	74.7 kN	7479 m	3328 ft	3.99°	1199 ft/min	-3. dB _A
End	211. knots	224.8 knots	74.62 kN	11605 m	4273 ft	3.99°	1584 ft/min	-3. dB _A
Gain	49. knots	54.6 knots	-0.08 kN	4126 m	945 ft	0.°	385 ft/min	0. dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	211. knots	224.8 knots	74.62 kN	11605 m	4273 ft	4.15°	1647 ft/min	-3. dB _A
End	300. knots	332.9 knots	75.48 kN	22885 m	6958 ft	4.15°	2440 ft/min	-3. dB _A
Gain	89. knots	108.1 knots	0.86 kN	11280 m	2685 ft	0.°	793 ft/min	0. dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	332.9 knots	75.48 kN	22885 m	6958 ft	6.17°	3624 ft/min	-3. dB _A
End	300. knots	380.1 knots	84.79 kN	46484 m	15328 ft	6.17°	4137 ft/min	-1. dB _A
Gain	0. knots	47.2 knots	9.31 kN	23599 m	8370 ft	0.°	513 ft/min	2. dB _A



NADP2-10-UNL

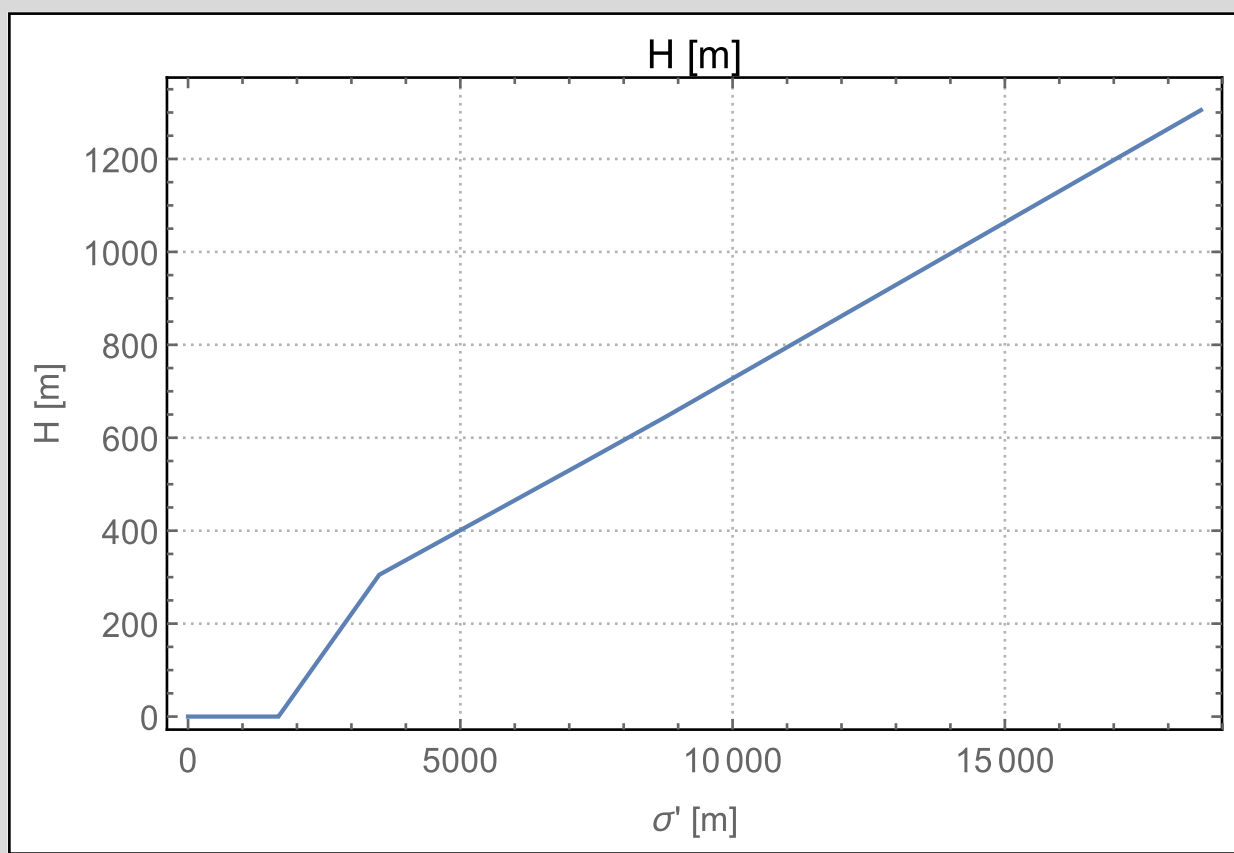
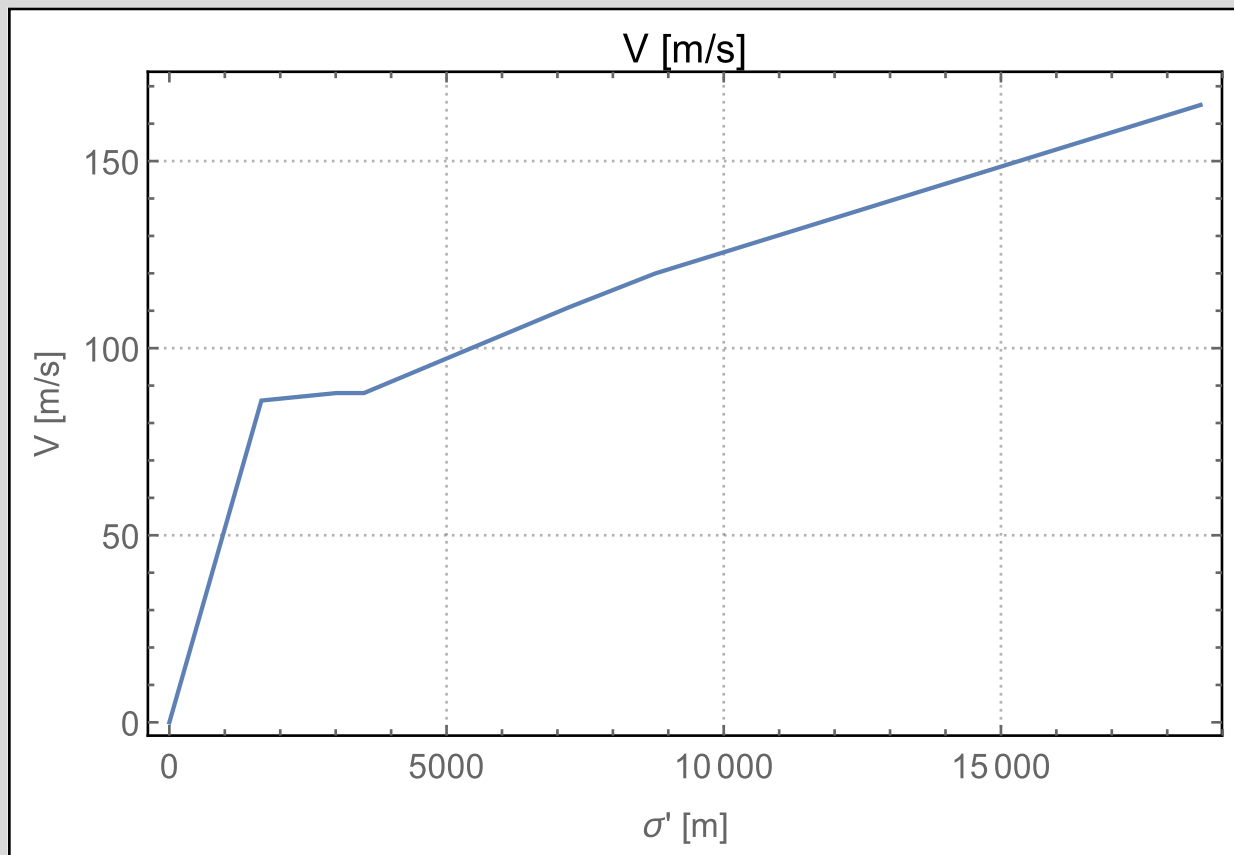
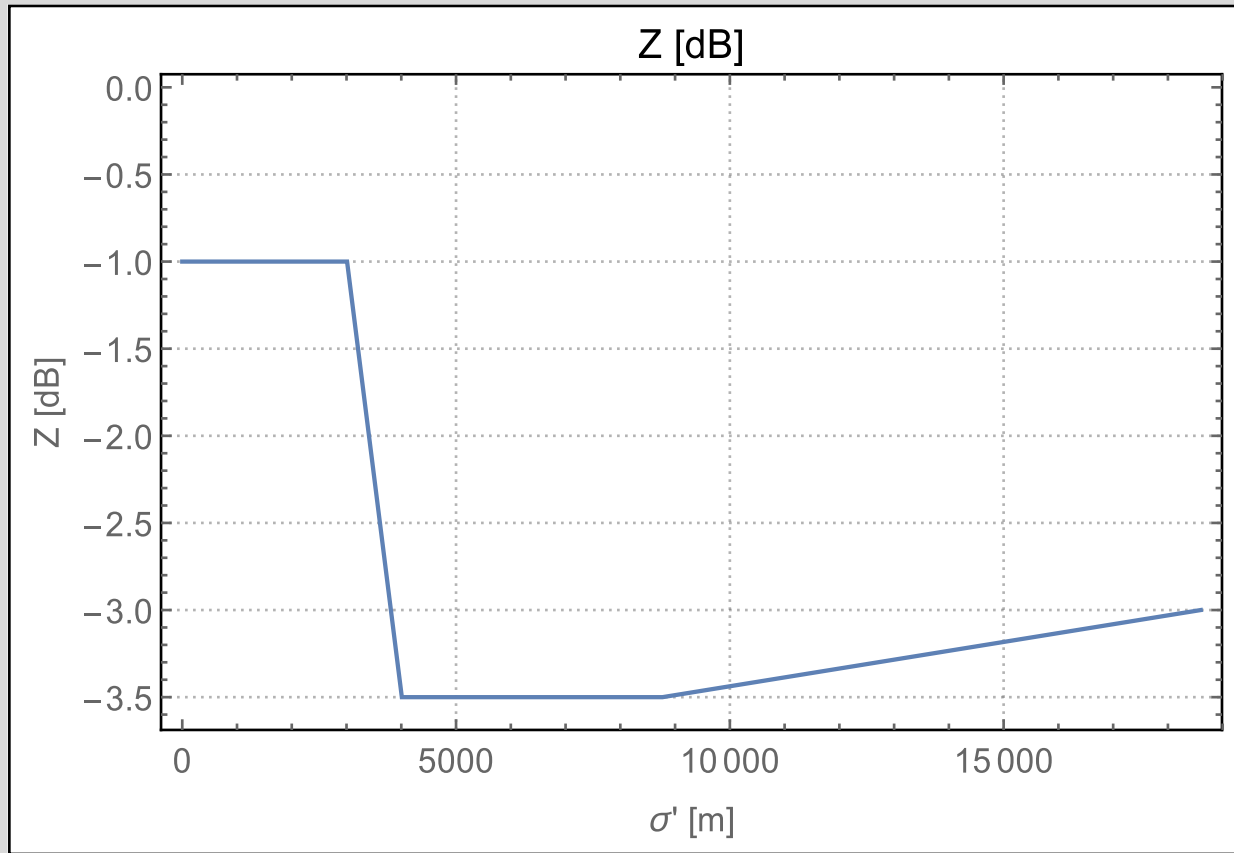
A320-211 95% MTOM

Fixpunktprofil nach AzB

σ' [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
8770	-3,5	120	645
18600	-3	165	1305
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 18600	0	0	0,098

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 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 Flaps UP Speed	ACC	0	1.	MaxClimb	225.	0.
5	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	100.36 kN	0 m	328 ft	0.°	0 ft/min	-1. dB _A
End	167. knots	167.8 knots	84.18 kN	1656 m	328 ft	0.°	0 ft/min	-1. dB _A
Gain	167. knots	167.8 knots	-16.18 kN	1656 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	167.8 knots	84.18 kN	1656 m	328 ft	9.35°	2761 ft/min	-1. dB _A
End	167. knots	170.3 knots	85.39 kN	3507 m	1328 ft	9.35°	2802 ft/min	-1. dB _A
Gain	0. knots	2.5 knots	1.21 kN	1851 m	1000 ft	0.°	41 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	170.3 knots	72.85 kN	3507 m	1328 ft	3.68°	1107 ft/min	-3. dB _A
End	210. knots	216.6 knots	72.69 kN	7221 m	2112 ft	3.68°	1408 ft/min	-3.5 dB _A
Gain	43. knots	46.3 knots	-0.16 kN	3714 m	784 ft	0.°	301 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	210. knots	216.6 knots	72.69 kN	7221 m	2112 ft	3.74°	1431 ft/min	-3.5 dB _A
End	225. knots	233.2 knots	72.69 kN	8768 m	2444 ft	3.74°	1541 ft/min	-3.5 dB _A
Gain	15. knots	16.6 knots	0. kN	1547 m	332 ft	0.°	110 ft/min	0. dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	225. knots	233.2 knots	72.69 kN	8768 m	2444 ft	3.84°	1582 ft/min	-3.5 dB _A
End	300. knots	321.3 knots	73.2 kN	18599 m	4608 ft	3.84°	2179 ft/min	-3. dB _A
Gain	75. knots	88.1 knots	0.51 kN	9831 m	2164 ft	0.°	597 ft/min	0.5 dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	321.3 knots	73.2 kN	18599 m	4608 ft	5.6°	3175 ft/min	-3. dB _A
End	300. knots	380.1 knots	84.79 kN	51941 m	15328 ft	5.6°	3756 ft/min	-1. dB _A
Gain	0. knots	58.8 knots	11.59 kN	33342 m	10720 ft	0.°	581 ft/min	2. dB _A

NADP2-10-UNL

A320-211 85% MTOM

Fixpunktprofil nach AzB

σ' [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
16620	-3,5	165	1329
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 16620	0	0	0,114

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 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
5	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	90.55 kN	0 m	328 ft	0. °	0 ft/min	-2.5 dB _A
End	162. knots	162.7 knots	76.39 kN	1490 m	328 ft	0. °	0 ft/min	-2.5 dB _A
Gain	162. knots	162.7 knots	-14.16 kN	1490 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	76.39 kN	1490 m	328 ft	9.42 °	2698 ft/min	-2.5 dB _A
End	162. knots	165.2 knots	77.48 kN	3328 m	1328 ft	9.42 °	2738 ft/min	-2.5 dB _A
Gain	0. knots	2.5 knots	1.09 kN	1838 m	1000 ft	0. °	40 ft/min	0. dB _A

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

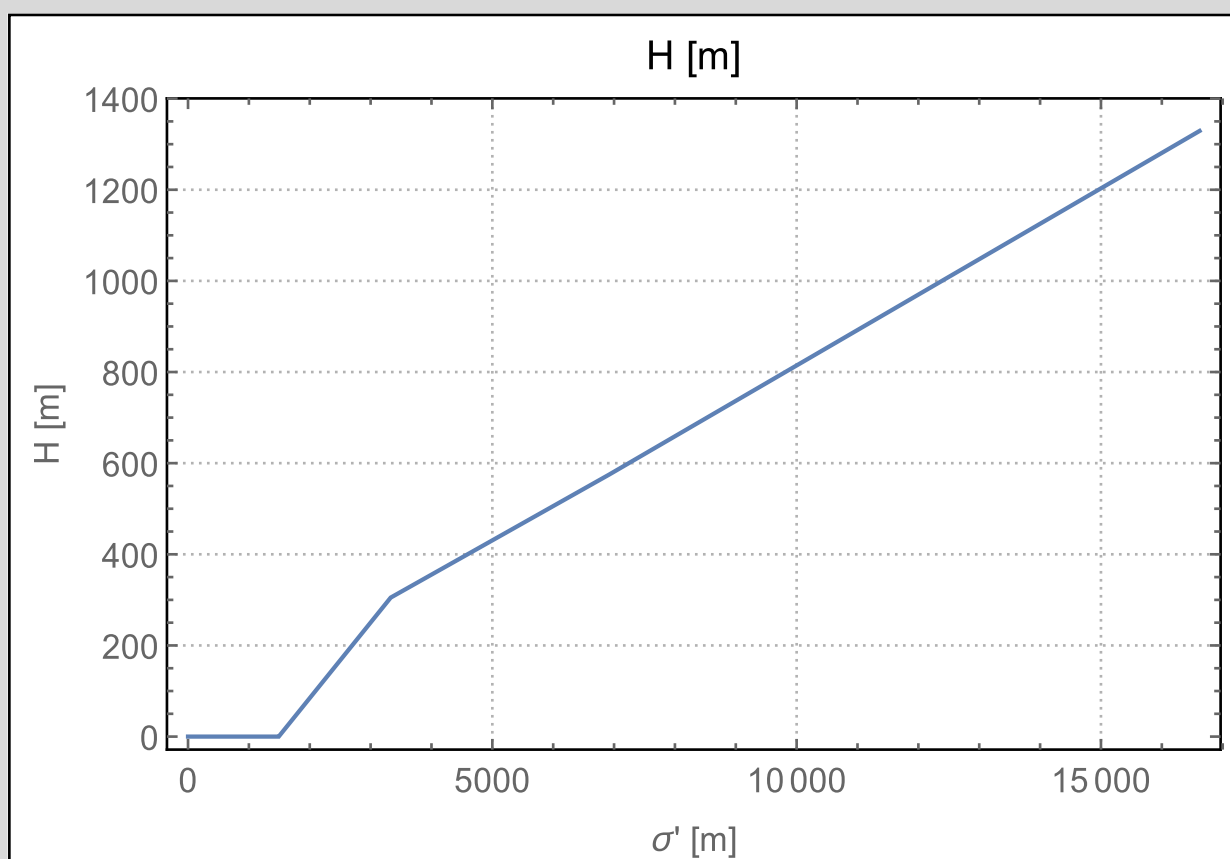
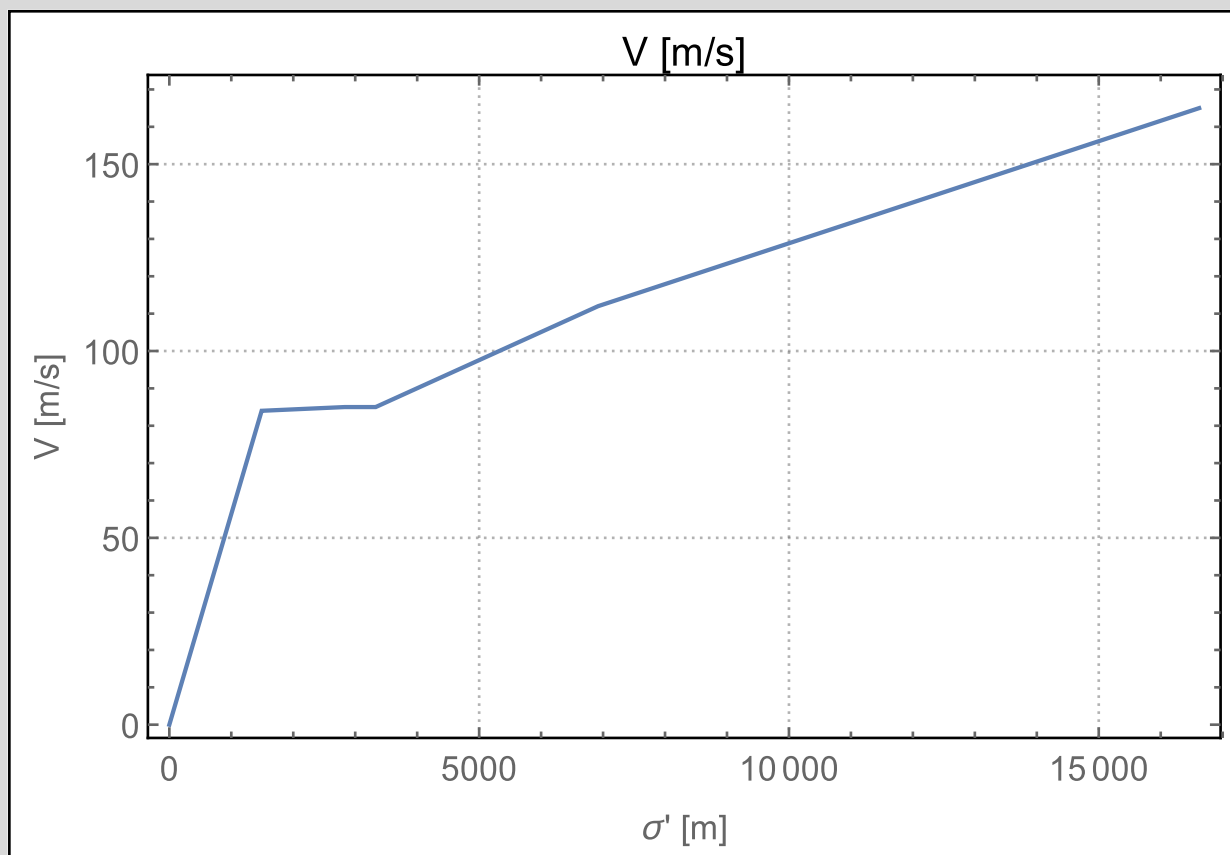
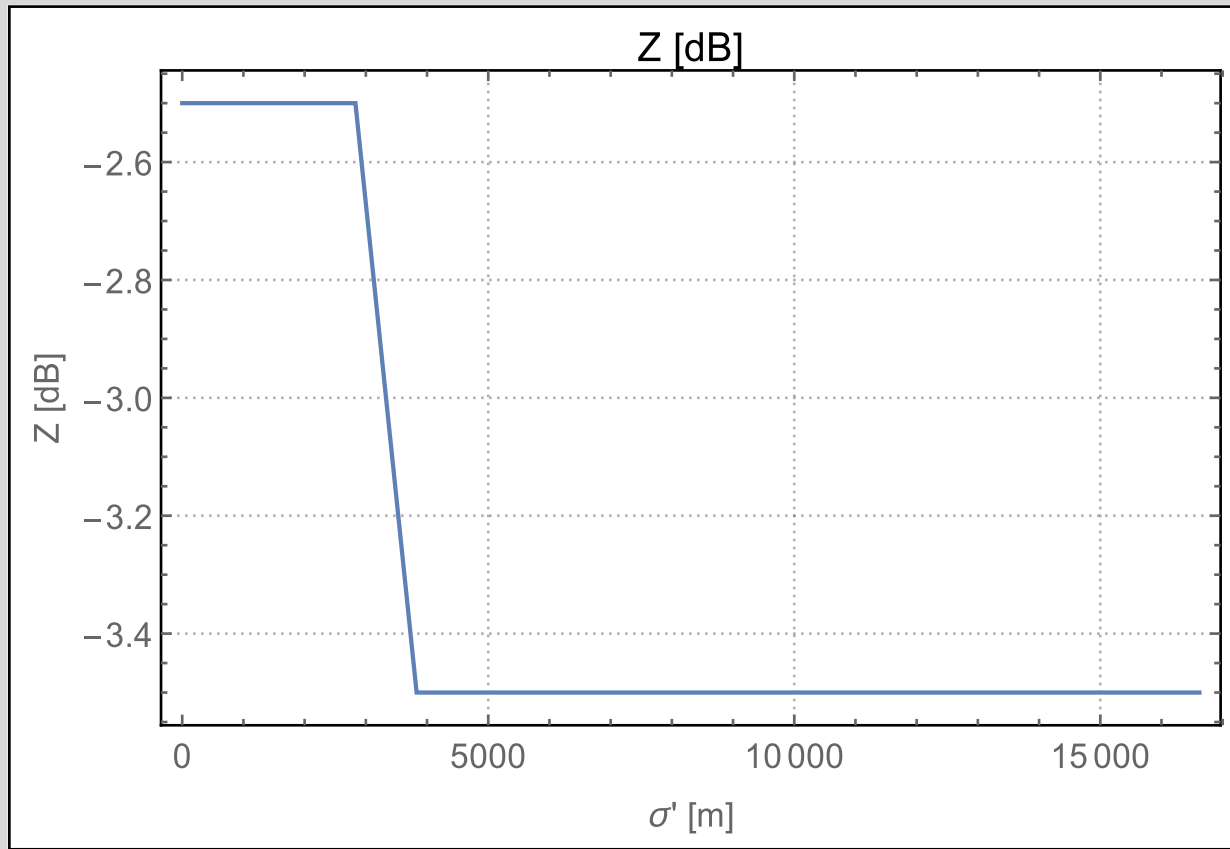
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	165.2 knots	72.95 kN	3328 m	1328 ft	4.29 °	1251 ft/min	-3.5 dB _A
End	211. knots	218. knots	72.76 kN	6920 m	2213 ft	4.29 °	1651 ft/min	-3.5 dB _A
Gain	49. knots	52.8 knots	-0.19 kN	3592 m	885 ft	0. °	400 ft/min	0. dB _A

Segment 4 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	211. knots	218. knots	72.76 kN	6920 m	2213 ft	4.45 °	1713 ft/min	-3.5 dB _A
End	300. knots	321.6 knots	73.27 kN	16625 m	4689 ft	4.45 °	2527 ft/min	-3.5 dB _A
Gain	89. knots	103.6 knots	0.51 kN	9705 m	2476 ft	0. °	814 ft/min	0. dB _A

Segment 5 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	321.6 knots	73.27 kN	16625 m	4689 ft	6.51 °	3693 ft/min	-3.5 dB _A
End	300. knots	380.1 knots	84.79 kN	45025 m	15328 ft	6.51 °	4364 ft/min	-1. dB _A
Gain	0. knots	58.5 knots	11.52 kN	28400 m	10639 ft	0. °	671 ft/min	2.5 dB _A



NADP2-15-UNL

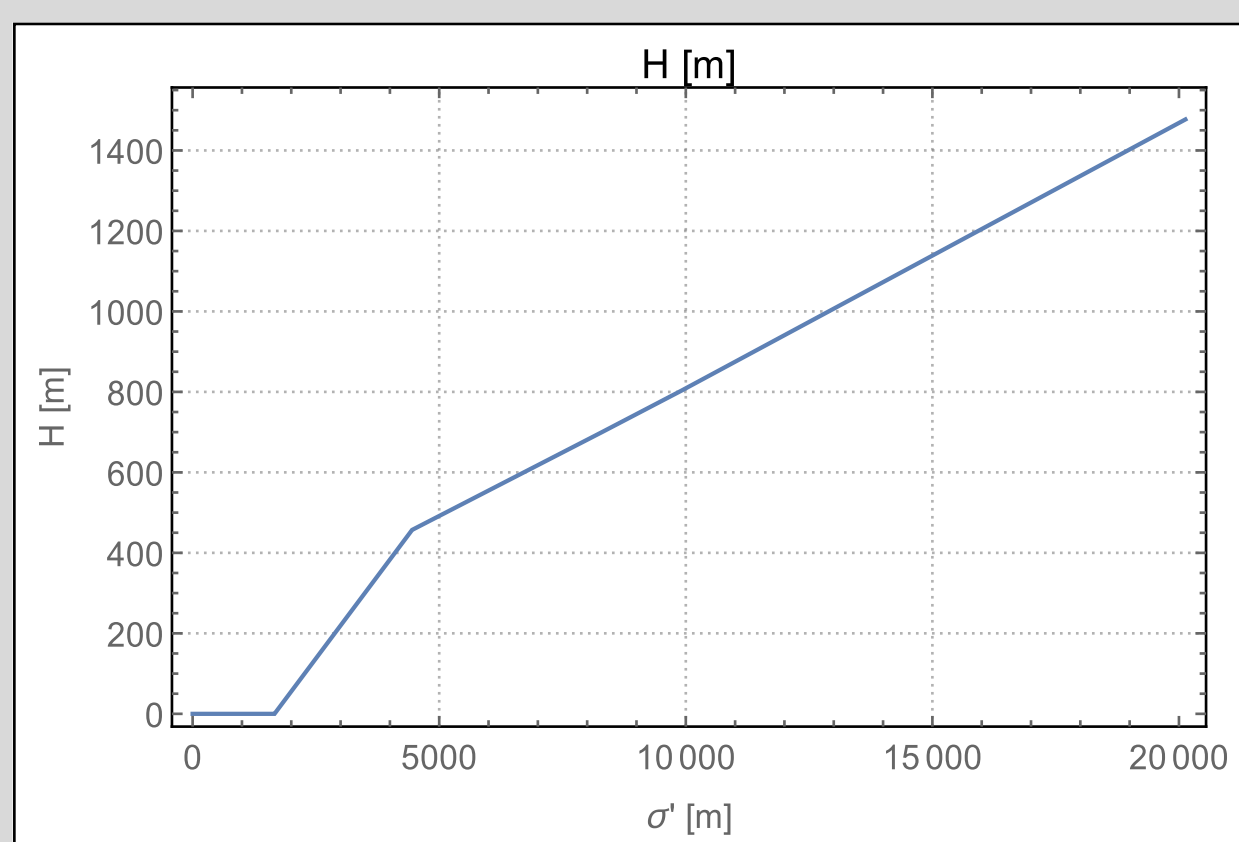
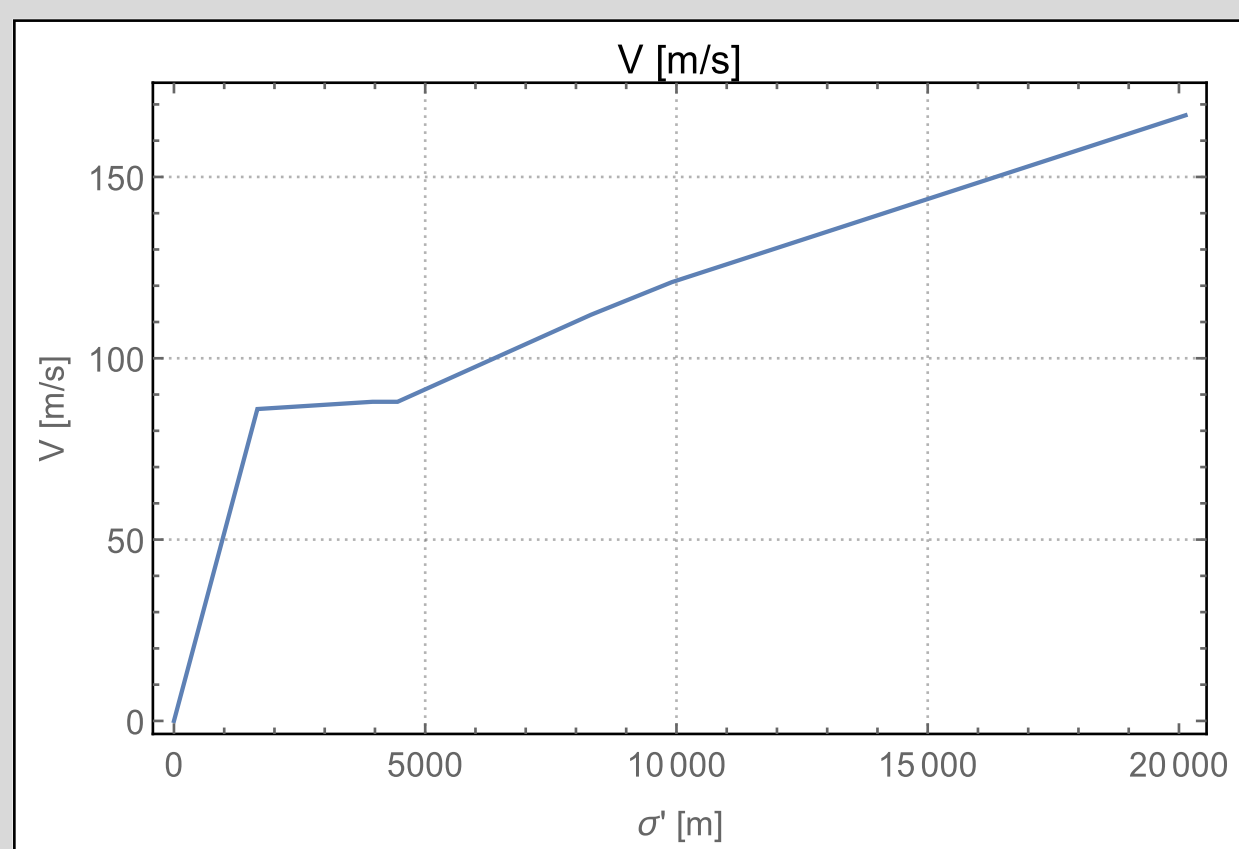
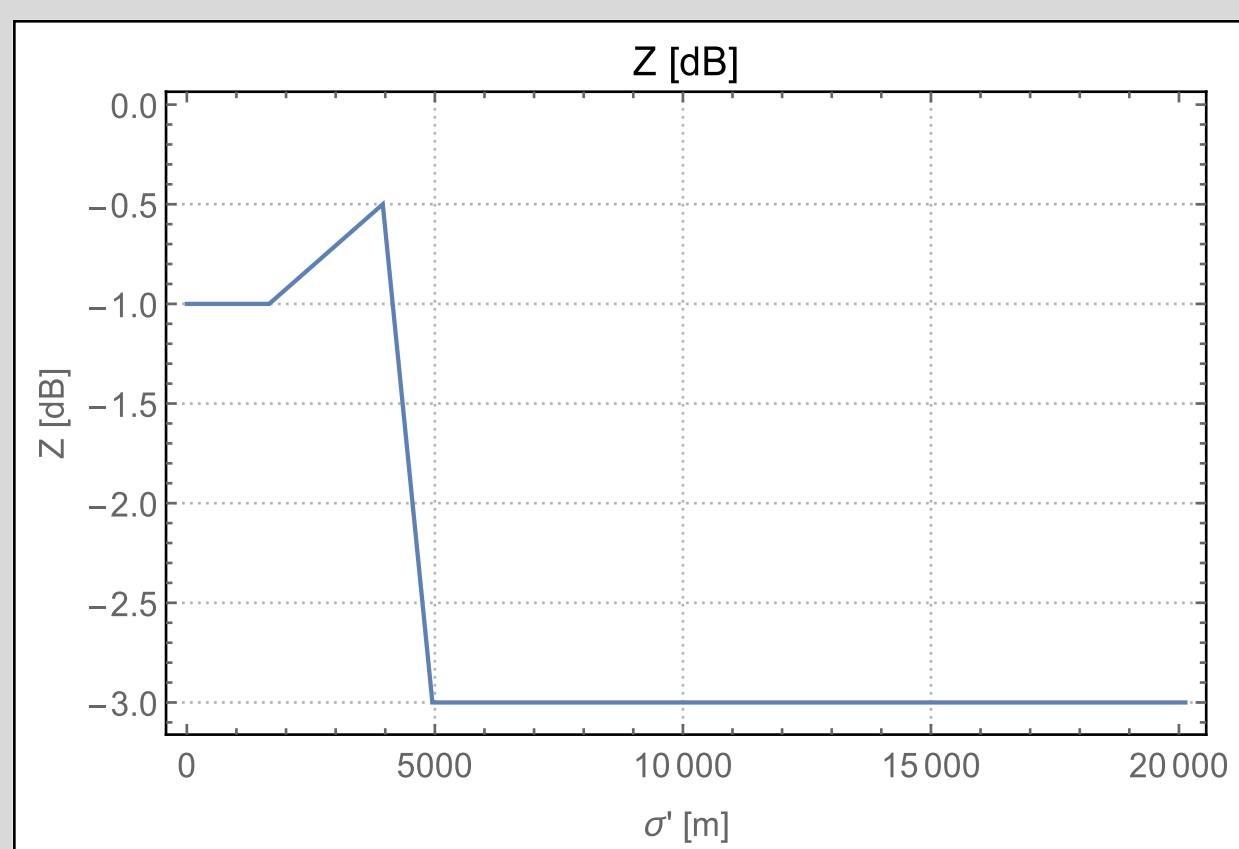
A320-211 95% MTOM

Fixpunktprofil nach AzB

σ' [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
9910	-3	121	803
20130	-3	167	1477
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 20130	0	0	0,097

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	Accelerate to Flaps 1 Speed	ACC	1.	1+F	MaxClimb	210.	0.
4	Accelerate to Flaps UP Speed	ACC	0	1.	MaxClimb	225.	0.
5	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	100.36 kN	0 m	328 ft	0.°	0 ft/min	-1. dB _A
End	167. knots	167.8 knots	84.18 kN	1656 m	328 ft	0.°	0 ft/min	-1. dB _A
Gain	167. knots	167.8 knots	-16.18 kN	1656 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	167.8 knots	84.18 kN	1656 m	328 ft	9.28°	2740 ft/min	-1. dB _A
End	167. knots	171.5 knots	85.98 kN	4454 m	1828 ft	9.28°	2801 ft/min	-0.5 dB _A
Gain	0. knots	3.7 knots	1.8 kN	2798 m	1500 ft	0.°	61 ft/min	0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	167. knots	171.5 knots	73.28 kN	4454 m	1828 ft	3.61°	1094 ft/min	-3. dB _A
End	210. knots	218.2 knots	73.14 kN	8302 m	2625 ft	3.61°	1392 ft/min	-3. dB _A
Gain	43. knots	46.7 knots	-0.14 kN	3848 m	797 ft	0.°	298 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	210. knots	218.2 knots	73.14 kN	8302 m	2625 ft	3.67°	1415 ft/min	-3. dB _A
End	225. knots	235.1 knots	73.15 kN	9907 m	2963 ft	3.67°	1524 ft/min	-3. dB _A
Gain	15. knots	16.9 knots	0.01 kN	1605 m	338 ft	0.°	109 ft/min	0. dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	225. knots	235.1 knots	73.15 kN	9907 m	2963 ft	3.77°	1565 ft/min	-3. dB _A
End	300. knots	324.1 knots	73.73 kN	20126 m	5173 ft	3.77°	2157 ft/min	-3. dB _A
Gain	75. knots	89. knots	0.58 kN	10219 m	2210 ft	0.°	592 ft/min	0. dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	324.1 knots	73.73 kN	20126 m	5173 ft	5.51°	3151 ft/min	-3. dB _A
End	300. knots	380.1 knots	84.79 kN	52189 m	15328 ft	5.51°	3696 ft/min	-1. dB _A
Gain	0. knots	56. knots	11.06 kN	32063 m	10155 ft	0.°	545 ft/min	2. dB _A

NADP2-15-UNL

A320-211 85% MTOM

Fixpunktprofil nach AzB

σ' [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
18060	-3	167	1502
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 18060	0	0	0,113

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 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
5	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	90.55 kN	0 m	328 ft	0.°	0 ft/min	-2.5 dB _A
End	162. knots	162.7 knots	76.39 kN	1490 m	328 ft	0.°	0 ft/min	-2.5 dB _A
Gain	162. knots	162.7 knots	-14.16 kN	1490 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	162.7 knots	76.39 kN	1490 m	328 ft	9.34°	2675 ft/min	-2.5 dB _A
End	162. knots	166.4 knots	78.01 kN	4269 m	1828 ft	9.34°	2735 ft/min	-2.5 dB _A
Gain	0. knots	3.7 knots	1.62 kN	2779 m	1500 ft	0.°	60 ft/min	0. dB _A

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

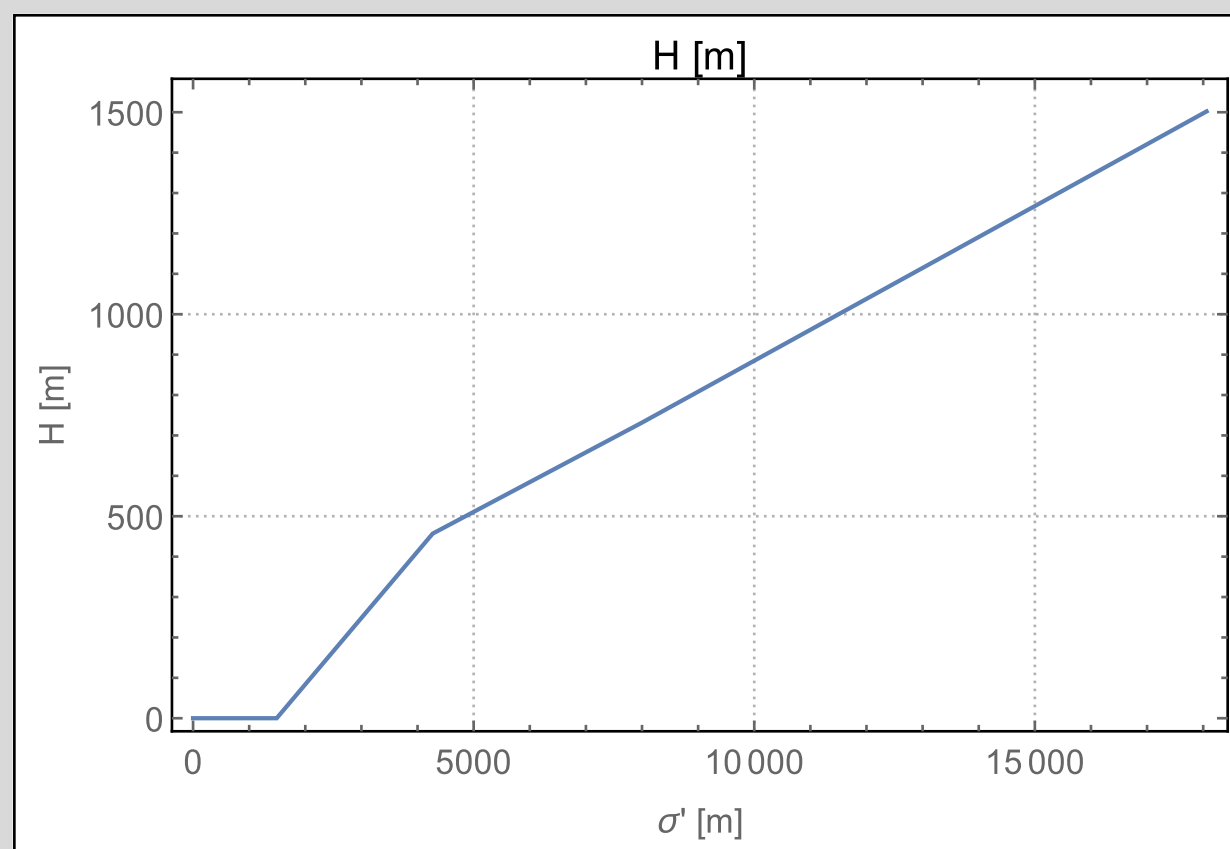
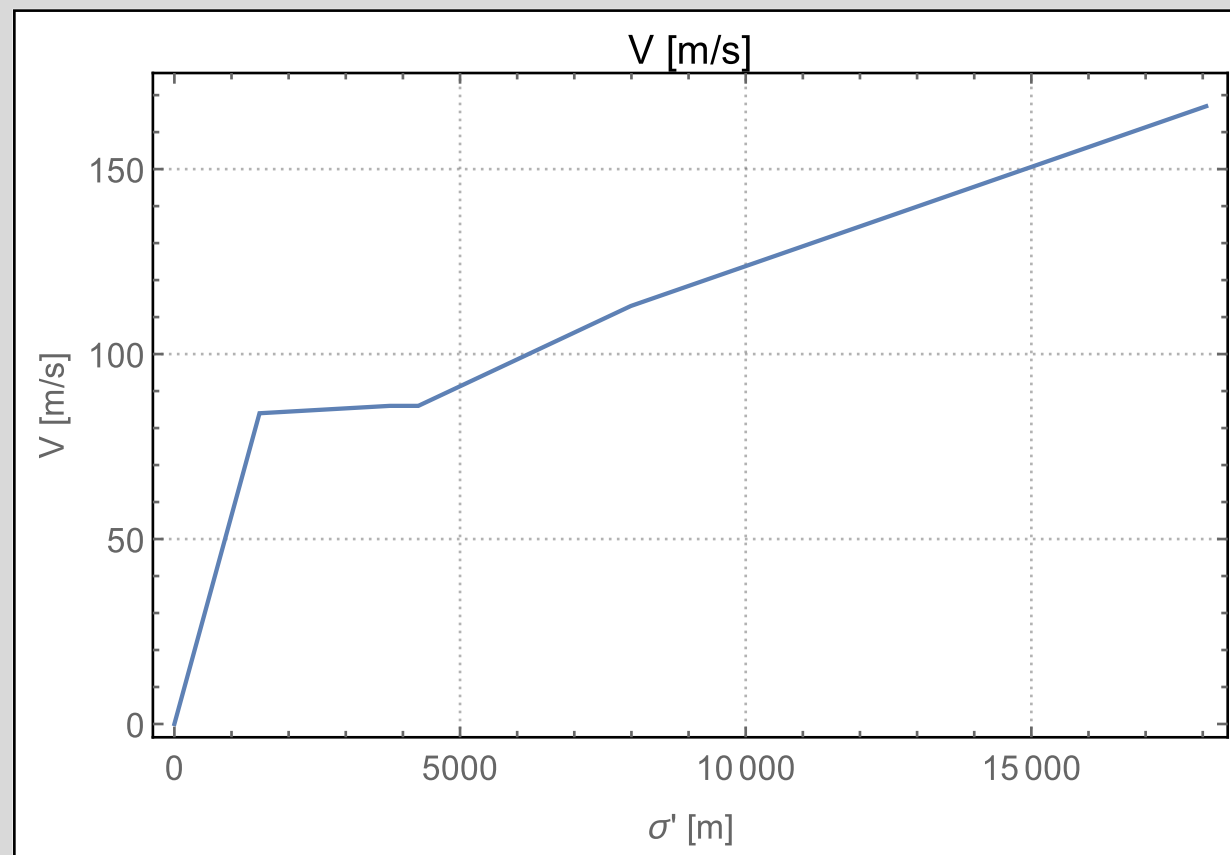
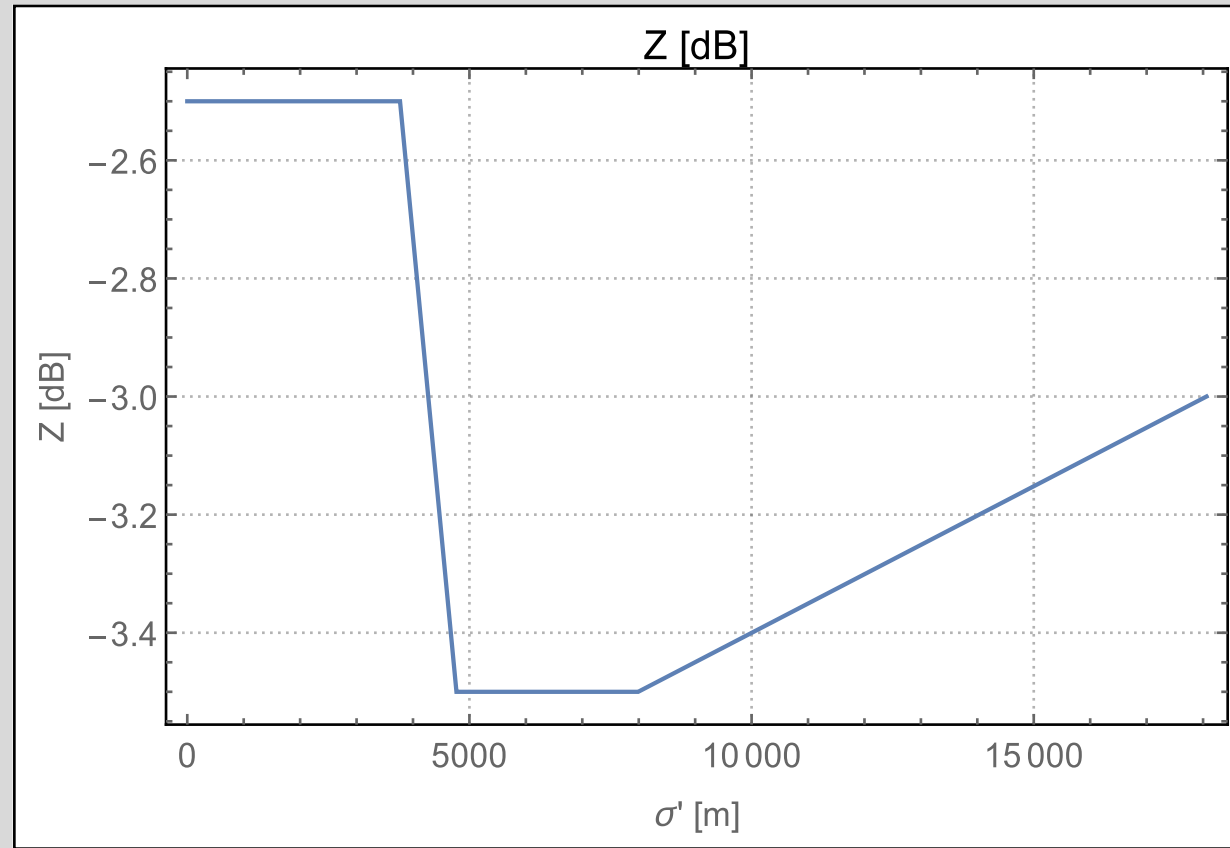
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	162. knots	166.4 knots	73.37 kN	4269 m	1828 ft	4.22°	1240 ft/min	-3. dB _A
End	211. knots	219.6 knots	73.21 kN	7987 m	2728 ft	4.22°	1637 ft/min	-3.5 dB _A
Gain	49. knots	53.2 knots	-0.16 kN	3718 m	900 ft	0.°	397 ft/min	-0.5 dB _A

Segment 4 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	211. knots	219.6 knots	73.21 kN	7987 m	2728 ft	4.37°	1695 ft/min	-3.5 dB _A
End	300. knots	324.4 knots	73.81 kN	18060 m	5255 ft	4.37°	2503 ft/min	-3. dB _A
Gain	89. knots	104.8 knots	0.6 kN	10073 m	2527 ft	0.°	808 ft/min	0.5 dB _A

Segment 5 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	324.4 knots	73.81 kN	18060 m	5255 ft	6.42°	3673 ft/min	-3. dB _A
End	300. knots	380.1 knots	84.79 kN	45333 m	15328 ft	6.42°	4304 ft/min	-1. dB _A
Gain	0. knots	55.7 knots	10.98 kN	27273 m	10073 ft	0.°	631 ft/min	2. dB _A



NADP1-UNL

A380-841 100% MTOM

Fixpunktprofil nach AzB

σ' [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
21800	-1	133	1311
34540	-1,5	170	1885
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 34540	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	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 Flaps UP Speed	ACC	0	D_1	MaxClimb	242.	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/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	294.3 kN	0 m	328 ft	0.°	0 ft/min	-1. dB _A
End	185. knots	185.8 knots	229.84 kN	3135 m	328 ft	0.°	0 ft/min	-1. dB _A
Gain	185. knots	185.8 knots	-64.46 kN	3135 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	185.8 knots	229.84 kN	3135 m	328 ft	5.29°	1735 ft/min	-1. dB _A
End	185. knots	190. knots	236.93 kN	8069 m	1828 ft	5.29°	1774 ft/min	-0.5 dB _A
Gain	0. knots	4.2 knots	7.09 kN	4934 m	1500 ft	0.°	39 ft/min	0.5 dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	190. knots	236.93 kN	8069 m	1828 ft	5.06°	1697 ft/min	-0.5 dB _A
End	185. knots	194.4 knots	243.68 kN	13230 m	3328 ft	5.06°	1736 ft/min	-0.5 dB _A
Gain	0. knots	4.4 knots	6.75 kN	5161 m	1500 ft	0.°	39 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	194.4 knots	243.68 kN	13230 m	3328 ft	2.5°	858 ft/min	-0.5 dB _A
End	212. knots	224.6 knots	239.84 kN	17130 m	3886 ft	2.5°	992 ft/min	-0.5 dB _A
Gain	27. knots	30.2 knots	-3.84 kN	3900 m	558 ft	0.°	134 ft/min	0. dB _A

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

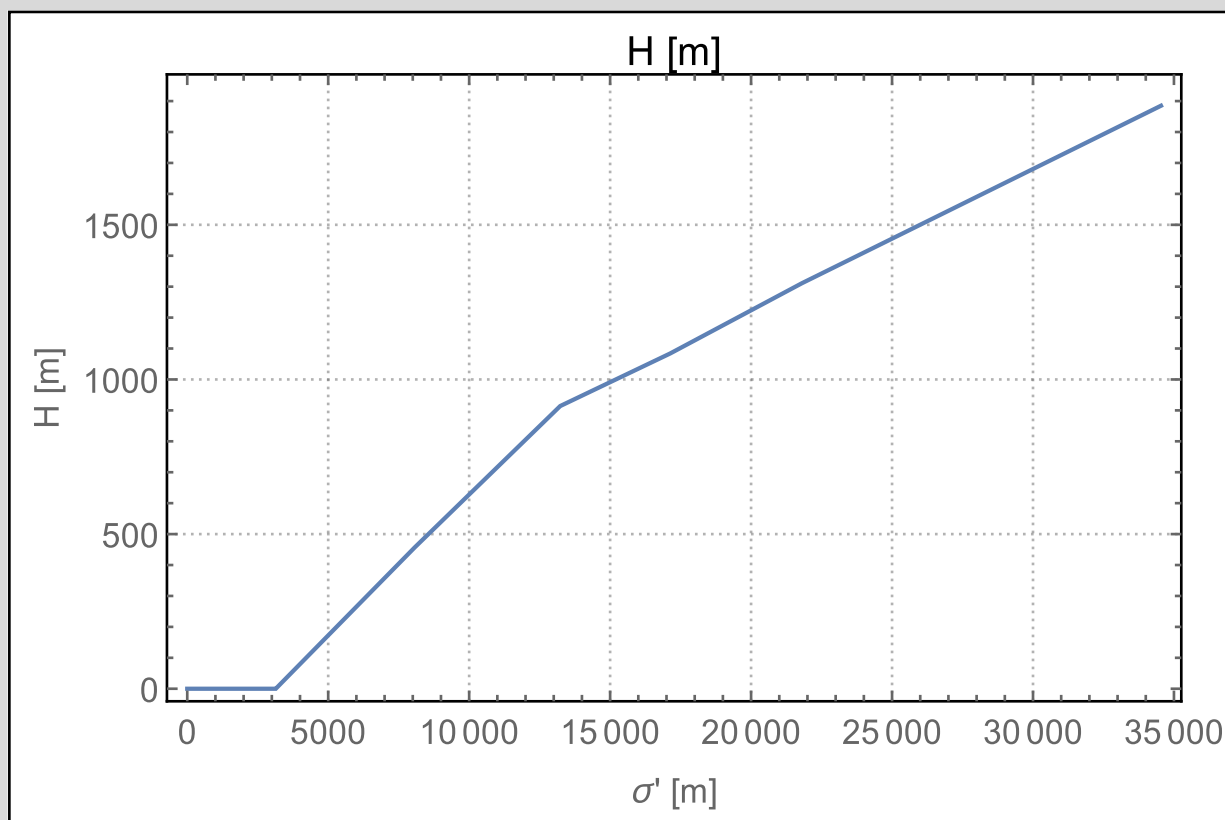
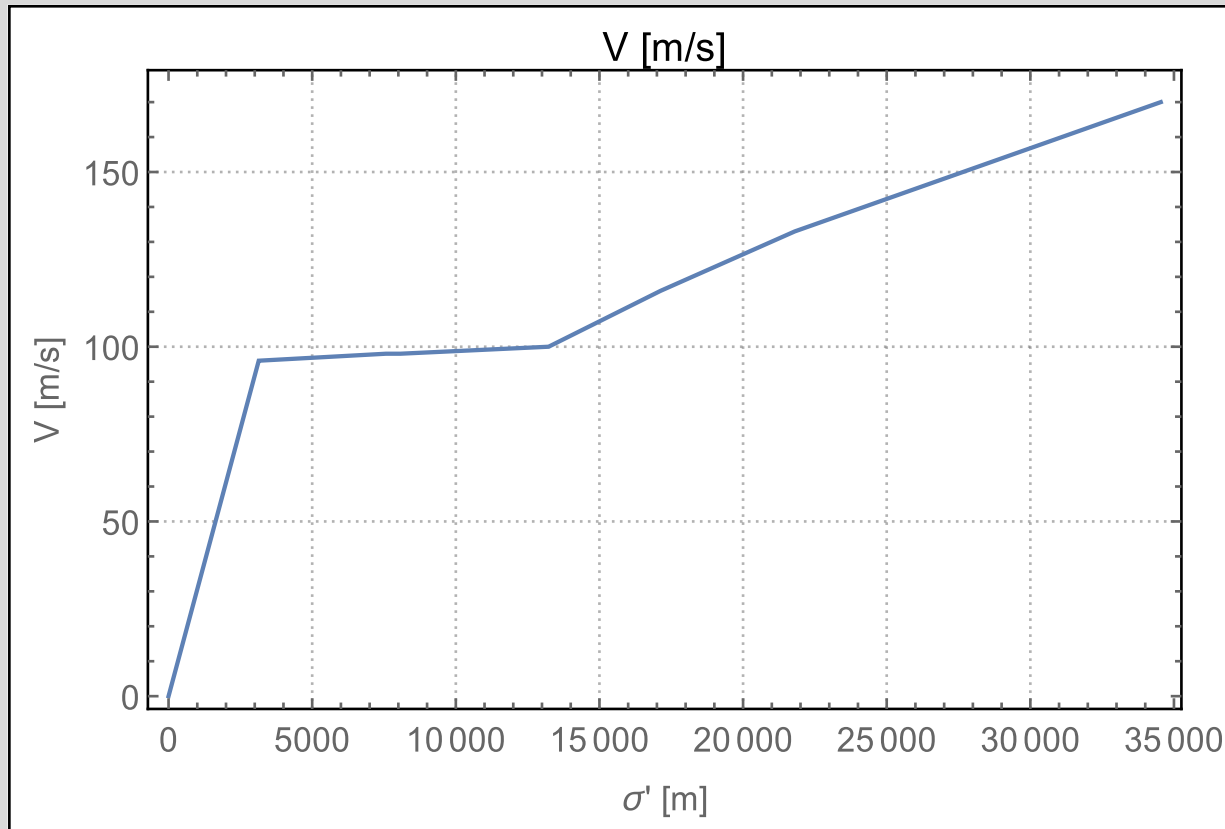
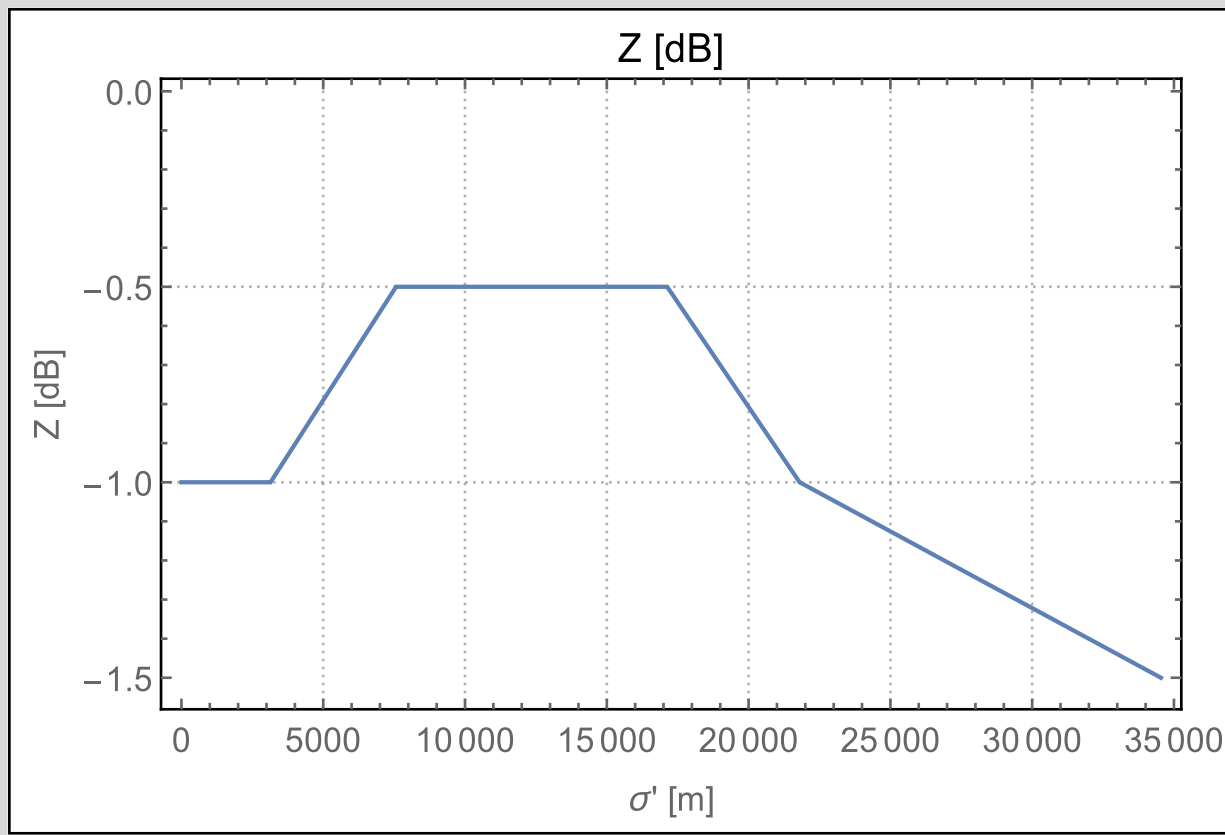
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	224.6 knots	239.84 kN	17130 m	3886 ft	2.77°	1099 ft/min	-0.5 dB _A
End	242. knots	259.2 knots	235.95 kN	21804 m	4628 ft	2.77°	1269 ft/min	-1. dB _A
Gain	30. knots	34.6 knots	-3.89 kN	4674 m	742 ft	0.°	170 ft/min	-0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	259.2 knots	235.95 kN	21804 m	4628 ft	2.58°	1182 ft/min	-1. dB _A
End	300. knots	330.7 knots	229.53 kN	34535 m	6512 ft	2.58°	1507 ft/min	-1.5 dB _A
Gain	58. knots	71.5 knots	-6.42 kN	12731 m	1884 ft	0.°	325 ft/min	-0.5 dB _A

Segment 7 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	330.7 knots	229.53 kN	34535 m	6512 ft	3.52°	2056 ft/min	-1.5 dB _A
End	300. knots	380.1 knots	248.31 kN	78232 m	15328 ft	3.52°	2363 ft/min	0. dB _A
Gain	0. knots	49.4 knots	18.78 kN	43697 m	8816 ft	0.°	307 ft/min	1.5 dB _A



NADP1-UNL

A380-841 75% MTOM

Fixpunktprofil nach AzB

σ' [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
36500	-4,5	171	1985
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 36500	0	0	0,059

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 UP Speed	ACC	0	D_1+F	MaxClimb	209.	0.
5	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	215.65 kN	0 m	328 ft	0. °	0 ft/min	-4.5 dB _A
End	168. knots	168.8 knots	172.76 kN	2367 m	328 ft	0. °	0 ft/min	-4.5 dB _A
Gain	168. knots	168.8 knots	-42.89 kN	2367 m	0 ft	0. °	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	168.8 knots	172.76 kN	2367 m	328 ft	5.29 °	1576 ft/min	-4.5 dB _A
End	168. knots	172.5 knots	177.95 kN	7308 m	1828 ft	5.29 °	1611 ft/min	-4.5 dB _A
Gain	0. knots	3.7 knots	5.19 kN	4941 m	1500 ft	0. °	35 ft/min	0. dB _A

Segment 3 Climb to 3000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	172.5 knots	177.95 kN	7308 m	1828 ft	5.05 °	1538 ft/min	-4.5 dB _A
End	168. knots	176.5 knots	182.94 kN	12482 m	3328 ft	5.05 °	1573 ft/min	-4.5 dB _A
Gain	0. knots	4. knots	4.99 kN	5174 m	1500 ft	0. °	35 ft/min	0. dB _A

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

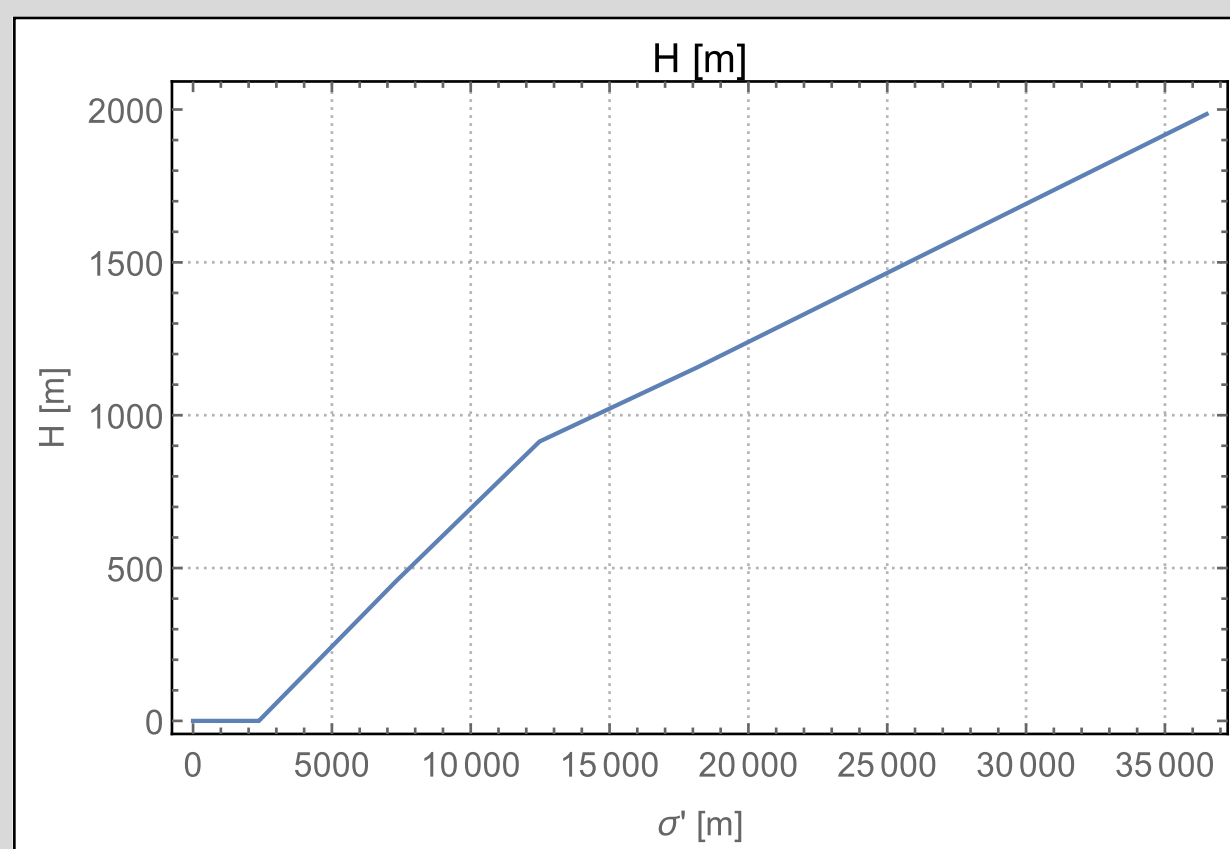
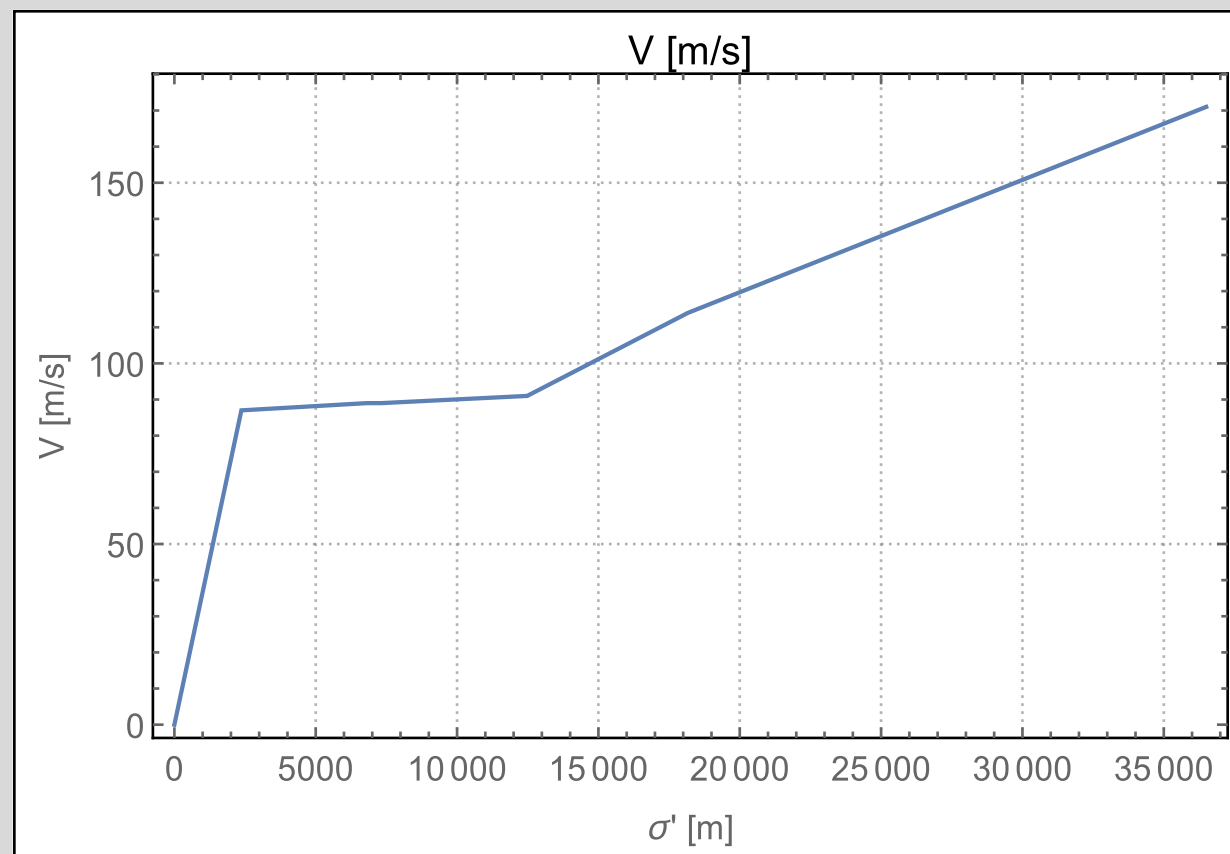
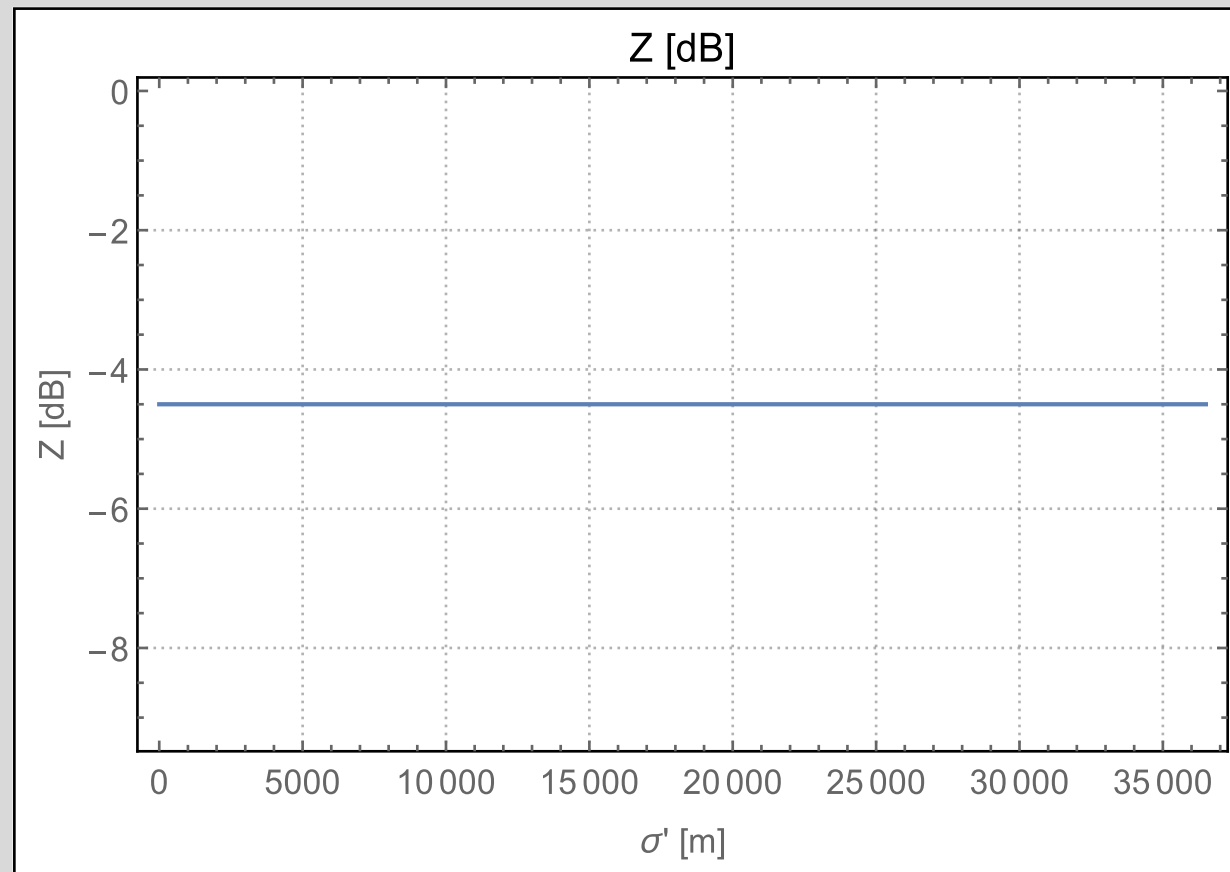
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	176.5 knots	182.94 kN	12482 m	3328 ft	2.45 °	764 ft/min	-4.5 dB _A
End	209. knots	222.2 knots	178.45 kN	18167 m	4125 ft	2.45 °	962 ft/min	-4.5 dB _A
Gain	41. knots	45.7 knots	-4.49 kN	5685 m	797 ft	0. °	198 ft/min	0. dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	222.2 knots	178.45 kN	18167 m	4125 ft	2.58 °	1013 ft/min	-4.5 dB _A
End	300. knots	332.3 knots	170.41 kN	36495 m	6839 ft	2.58 °	1515 ft/min	-4.5 dB _A
Gain	91. knots	110.1 knots	-8.04 kN	18328 m	2714 ft	0. °	502 ft/min	0. dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	332.3 knots	170.41 kN	36495 m	6839 ft	3.4 °	1996 ft/min	-4.5 dB _A
End	300. knots	380.1 knots	183.48 kN	80034 m	15328 ft	3.4 °	2283 ft/min	-4.5 dB _A
Gain	0. knots	47.8 knots	13.07 kN	43539 m	8489 ft	0. °	287 ft/min	0. dB _A



NADP2-10-UNL

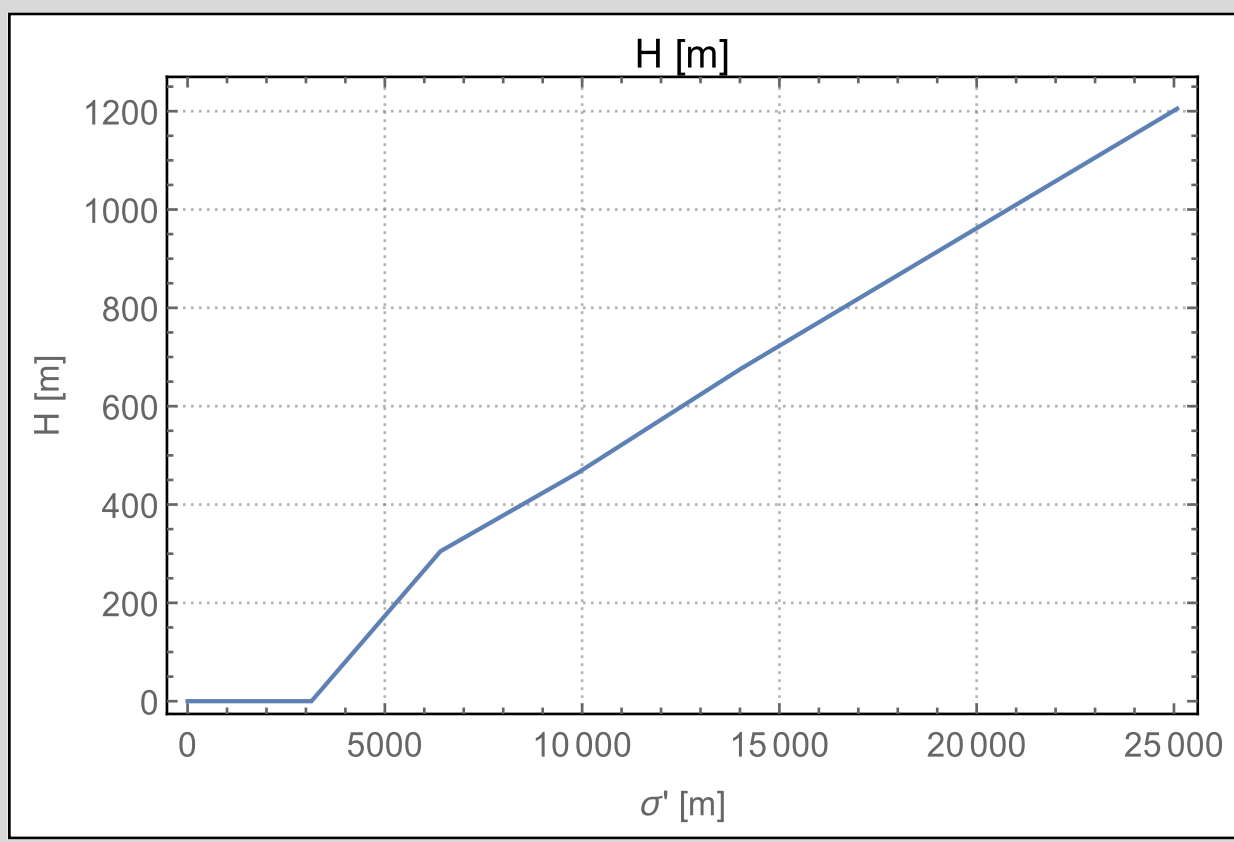
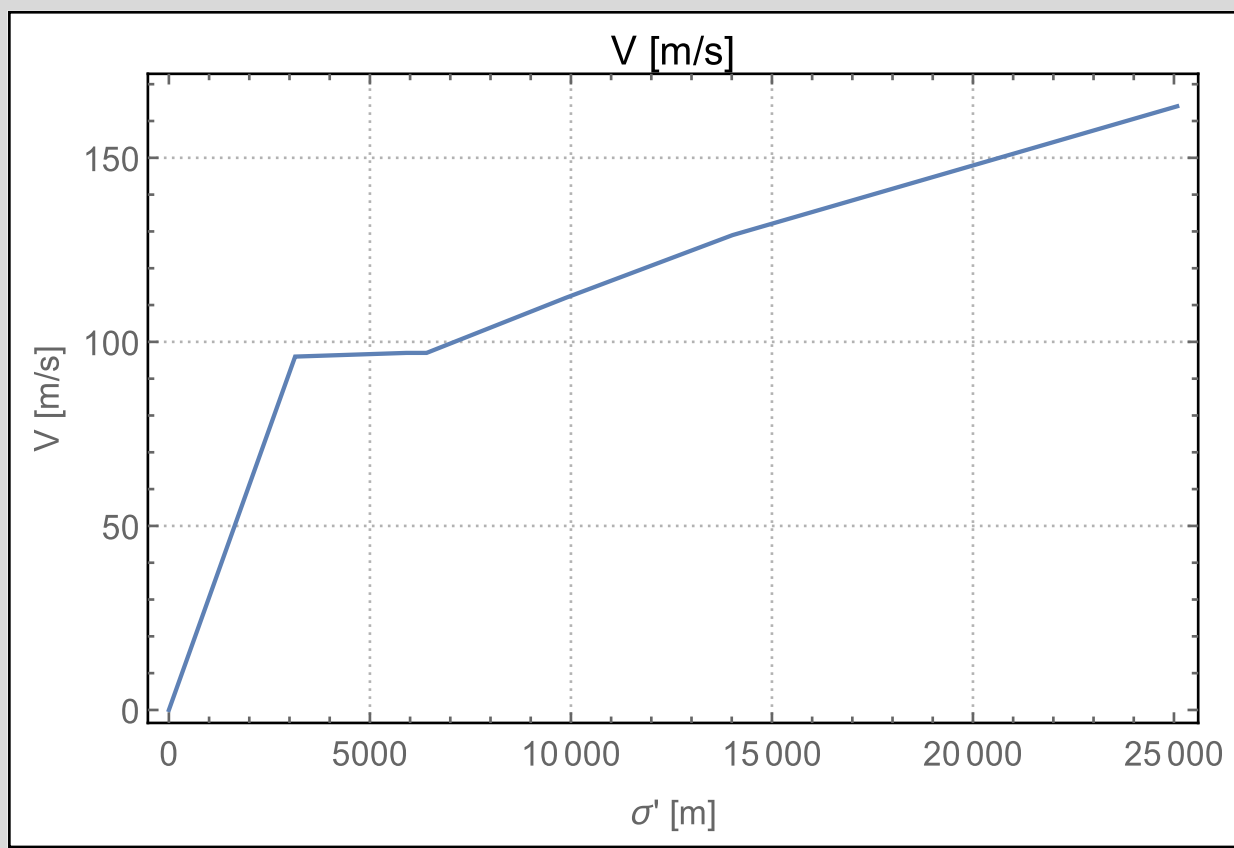
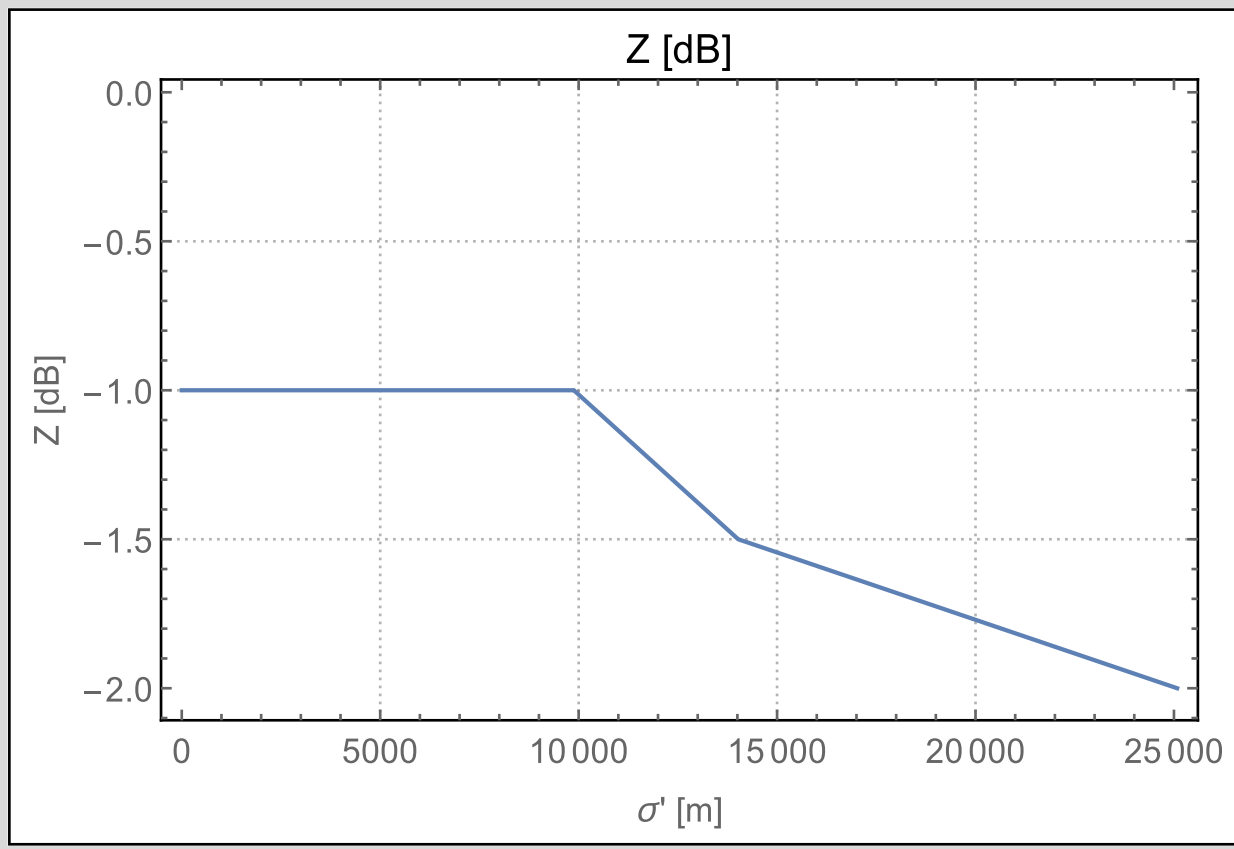
A380-841 100% MTOM

Fixpunktprofil nach AzB

σ' [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
14020	-1,5	129	676
25080	-2	164	1205
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 25080	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	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 Flaps UP Speed	ACC	0	D_1	MaxClimb	242.	0.
5	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	294.3 kN	0 m	328 ft	0.°	0 ft/min	-1. dB _A
End	185. knots	185.8 knots	229.84 kN	3135 m	328 ft	0.°	0 ft/min	-1. dB _A
Gain	185. knots	185.8 knots	-64.46 kN	3135 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	185.8 knots	229.84 kN	3135 m	328 ft	5.31°	1742 ft/min	-1. dB _A
End	185. knots	188.6 knots	233.68 kN	6414 m	1328 ft	5.31°	1768 ft/min	-1. dB _A
Gain	0. knots	2.8 knots	3.84 kN	3279 m	1000 ft	0.°	26 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	188.6 knots	233.68 kN	6414 m	1328 ft	2.64°	880 ft/min	-1. dB _A
End	212. knots	217.9 knots	230.01 kN	9876 m	1852 ft	2.64°	1016 ft/min	-1. dB _A
Gain	27. knots	29.3 knots	-3.67 kN	3462 m	524 ft	0.°	136 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	217.9 knots	230.01 kN	9876 m	1852 ft	2.92°	1124 ft/min	-1. dB _A
End	242. knots	251.2 knots	226.34 kN	14019 m	2545 ft	2.92°	1296 ft/min	-1.5 dB _A
Gain	30. knots	33.3 knots	-3.67 kN	4143 m	693 ft	0.°	172 ft/min	-0.5 dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	251.2 knots	226.34 kN	14019 m	2545 ft	2.74°	1216 ft/min	-1.5 dB _A
End	300. knots	319.6 knots	220.46 kN	25081 m	4280 ft	2.74°	1547 ft/min	-2. dB _A
Gain	58. knots	68.4 knots	-5.88 kN	11062 m	1735 ft	0.°	331 ft/min	-0.5 dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	319.6 knots	220.46 kN	25081 m	4280 ft	3.7°	2089 ft/min	-2. dB _A
End	300. knots	380.1 knots	247.41 kN	77127 m	15328 ft	3.7°	2484 ft/min	0. dB _A
Gain	0. knots	60.5 knots	26.95 kN	52046 m	11048 ft	0.°	395 ft/min	2. dB _A

NADP2-10-UNL

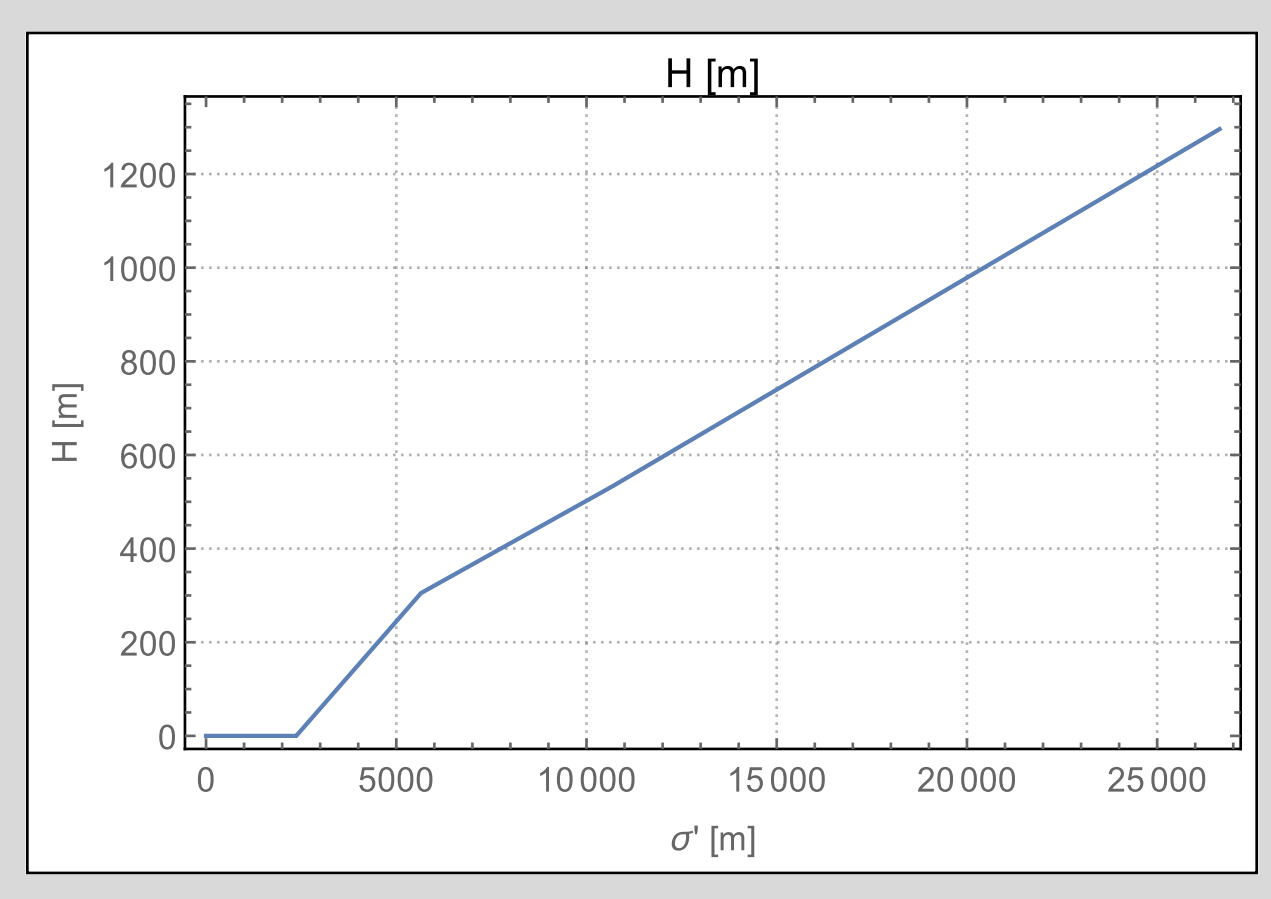
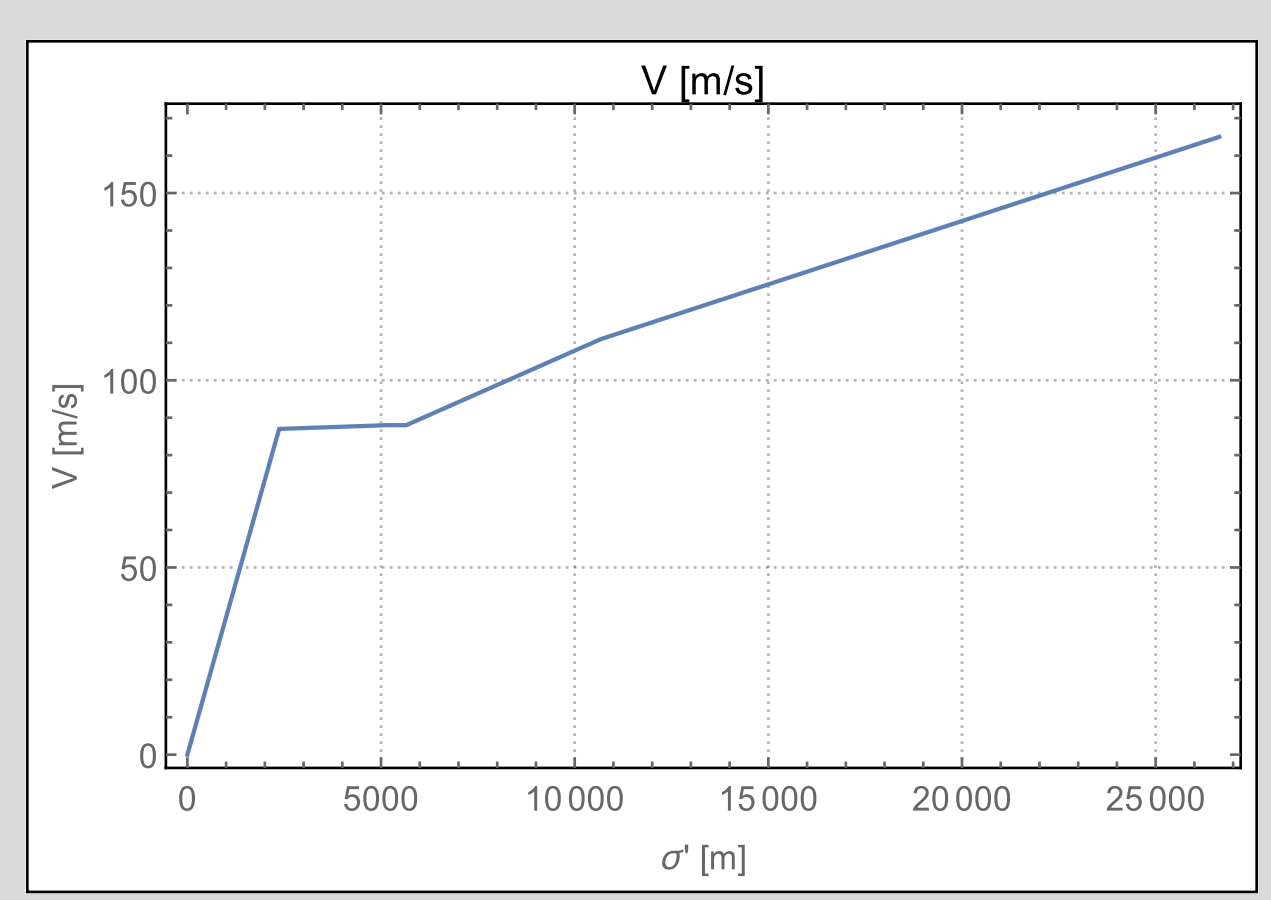
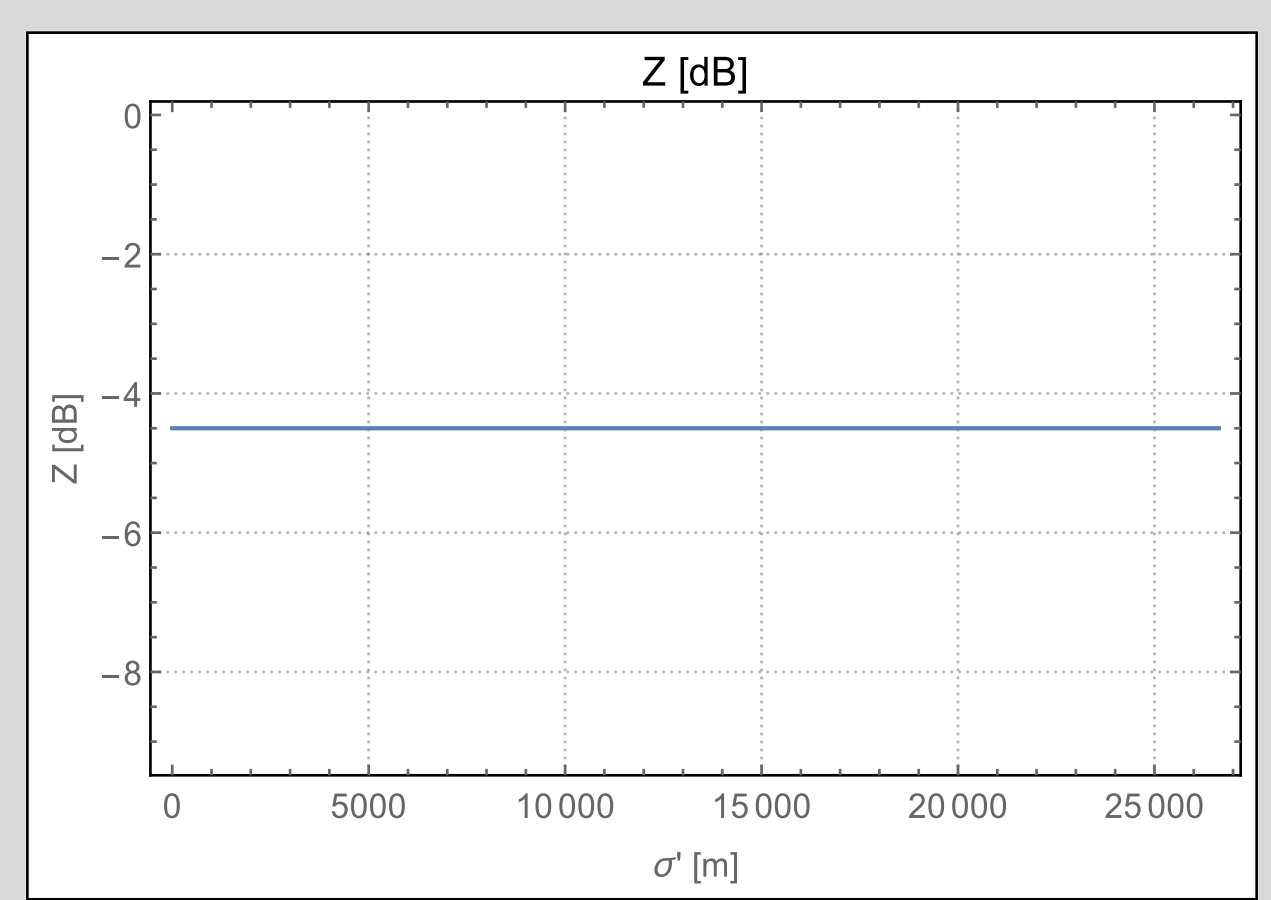
A380-841 75% MTOM

Fixpunktprofil nach AzB

σ' [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
26640	-4,5	165	1296
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 26640	0	0	0,063

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 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
5	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.



Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	215.65 kN	0 m	328 ft	0.°	0 ft/min	-4.5 dB _A
End	168. knots	168.8 knots	172.76 kN	2367 m	328 ft	0.°	0 ft/min	-4.5 dB _A
Gain	168. knots	168.8 knots	-42.89 kN	2367 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	168.8 knots	172.76 kN	2367 m	328 ft	5.3°	1579 ft/min	-4.5 dB _A
End	168. knots	171.3 knots	175.57 kN	5650 m	1328 ft	5.3°	1602 ft/min	-4.5 dB _A
Gain	0. knots	2.5 knots	2.81 kN	3283 m	1000 ft	0.°	23 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	171.3 knots	175.57 kN	5650 m	1328 ft	2.6°	787 ft/min	-4.5 dB _A
End	209. knots	215.5 knots	171.27 kN	10685 m	2077 ft	2.6°	990 ft/min	-4.5 dB _A
Gain	41. knots	44.2 knots	-4.3 kN	5035 m	749 ft	0.°	203 ft/min	0. dB _A

Segment 4 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	215.5 knots	171.27 kN	10685 m	2077 ft	2.74°	1043 ft/min	-4.5 dB _A
End	300. knots	321.1 knots	163.81 kN	26642 m	4580 ft	2.74°	1554 ft/min	-4.5 dB _A
Gain	91. knots	105.6 knots	-7.46 kN	15957 m	2503 ft	0.°	511 ft/min	0. dB _A

Segment 5 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	321.1 knots	163.81 kN	26642 m	4580 ft	3.58°	2030 ft/min	-4.5 dB _A
End	300. knots	380.1 knots	182.84 kN	79004 m	15328 ft	3.58°	2404 ft/min	-4.5 dB _A
Gain	0. knots	59. knots	19.03 kN	52362 m	10748 ft	0.°	374 ft/min	0. dB _A

NADP2-15-UNL

A380-841 100% MTOM

Fixpunktprofil nach AzB

σ' [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
15860	-1,5	130	834
27270	-1,5	166	1375
σ' [m]	dZ/d σ' [dB/m]	dV/d σ' [1/s]	dH/d σ'
> 27270	0	0	0,064

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	Accelerate to Flaps 1 Speed	ACC	1.	D_1+F	MaxClimb	212.	0.
4	Accelerate to Flaps UP Speed	ACC	0	D_1	MaxClimb	242.	0.
5	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
6	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	294.3 kN	0 m	328 ft	0.°	0 ft/min	-1. dB _A
End	185. knots	185.8 knots	229.84 kN	3135 m	328 ft	0.°	0 ft/min	-1. dB _A
Gain	185. knots	185.8 knots	-64.46 kN	3135 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	185.8 knots	229.84 kN	3135 m	328 ft	5.29°	1735 ft/min	-1. dB _A
End	185. knots	190. knots	236.93 kN	8069 m	1828 ft	5.29°	1774 ft/min	-0.5 dB _A
Gain	0. knots	4.2 knots	7.09 kN	4934 m	1500 ft	0.°	39 ft/min	0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	185. knots	190. knots	236.93 kN	8069 m	1828 ft	2.62°	880 ft/min	-0.5 dB _A
End	212. knots	219.5 knots	233.21 kN	11612 m	2360 ft	2.62°	1016 ft/min	-1. dB _A
Gain	27. knots	29.5 knots	-3.72 kN	3543 m	532 ft	0.°	136 ft/min	-0.5 dB _A

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

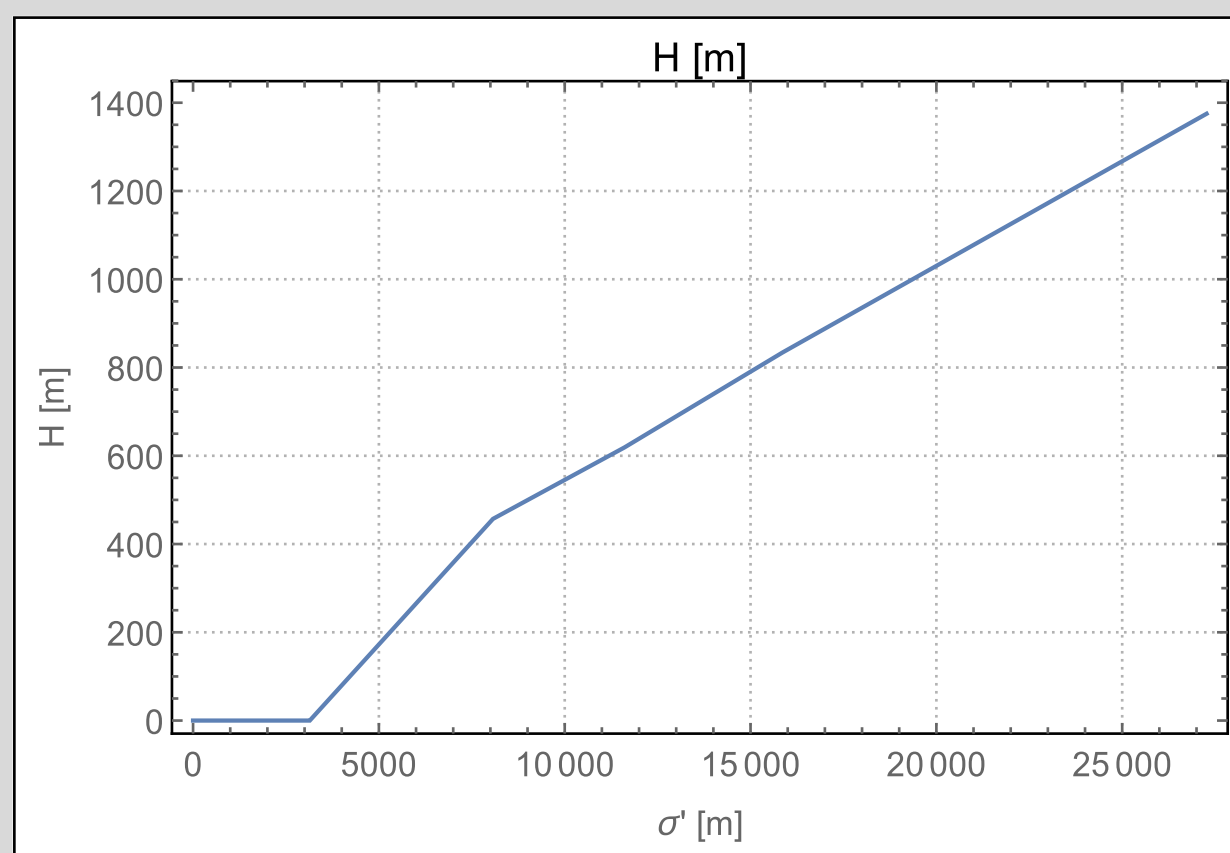
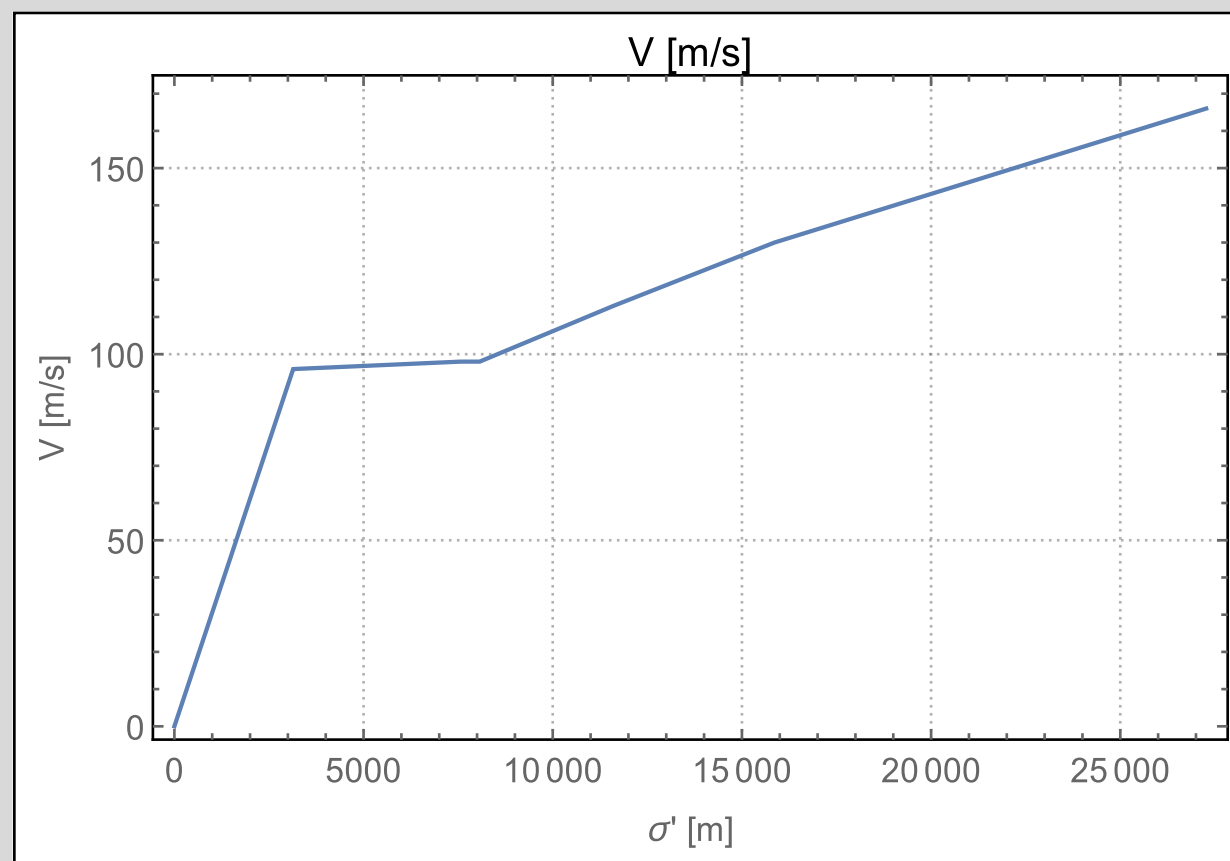
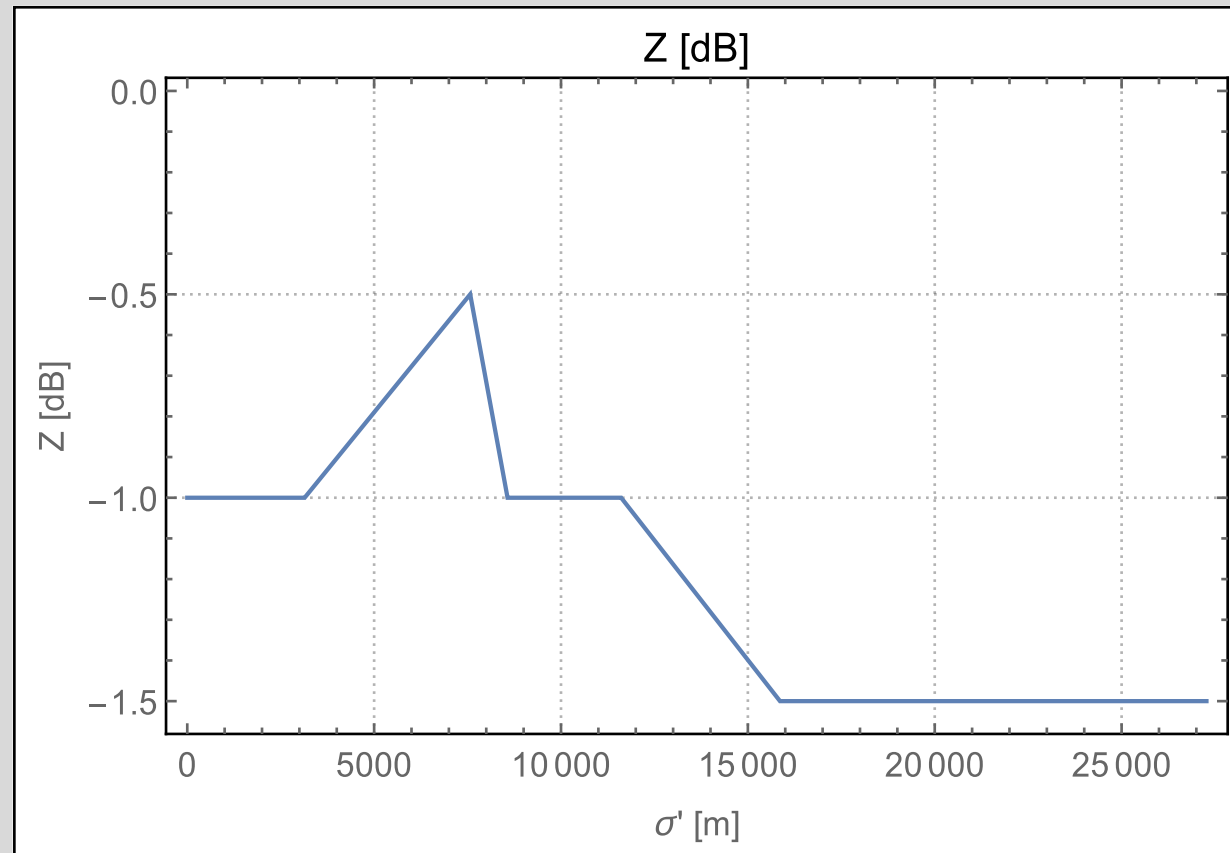
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	212. knots	219.5 knots	233.21 kN	11612 m	2360 ft	2.9°	1125 ft/min	-1. dB _A
End	242. knots	253.3 knots	229.48 kN	15861 m	3065 ft	2.9°	1297 ft/min	-1.5 dB _A
Gain	30. knots	33.8 knots	-3.73 kN	4249 m	705 ft	0.°	172 ft/min	-0.5 dB _A

Segment 5 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	242. knots	253.3 knots	229.48 kN	15861 m	3065 ft	2.71°	1212 ft/min	-1.5 dB _A
End	300. knots	322.4 knots	223.47 kN	27266 m	4838 ft	2.71°	1544 ft/min	-1.5 dB _A
Gain	58. knots	69.1 knots	-6.01 kN	11405 m	1773 ft	0.°	332 ft/min	0. dB _A

Segment 6 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	322.4 knots	223.47 kN	27266 m	4838 ft	3.67°	2090 ft/min	-1.5 dB _A
End	300. knots	380.1 knots	248.31 kN	77074 m	15328 ft	3.67°	2464 ft/min	0. dB _A
Gain	0. knots	57.7 knots	24.84 kN	49808 m	10490 ft	0.°	374 ft/min	1.5 dB _A



NADP2-15-UNL

A380-841 75% MTOM

Fixpunktprofil nach AzB

σ' [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
28900	-4,5	167	1468
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 28900	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	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 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
5	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 knots	0. knots	215.65 kN	0 m	328 ft	0.°	0 ft/min	-4.5 dB _A
End	168. knots	168.8 knots	172.76 kN	2367 m	328 ft	0.°	0 ft/min	-4.5 dB _A
Gain	168. knots	168.8 knots	-42.89 kN	2367 m	0 ft	0.°	0 ft/min	0. dB _A

Segment 2 Climb to 1500 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	168.8 knots	172.76 kN	2367 m	328 ft	5.29°	1576 ft/min	-4.5 dB _A
End	168. knots	172.5 knots	177.95 kN	7308 m	1828 ft	5.29°	1611 ft/min	-4.5 dB _A
Gain	0. knots	3.7 knots	5.19 kN	4941 m	1500 ft	0.°	35 ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	168. knots	172.5 knots	177.95 kN	7308 m	1828 ft	2.57°	784 ft/min	-4.5 dB _A
End	209. knots	217.1 knots	173.59 kN	12467 m	2589 ft	2.57°	986 ft/min	-4.5 dB _A
Gain	41. knots	44.6 knots	-4.36 kN	5159 m	761 ft	0.°	202 ft/min	0. dB _A

Segment 4 Accelerate to 300 kt 50% Climb/ 50% Acceleration

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	209. knots	217.1 knots	173.6 kN	12467 m	2589 ft	2.71°	1040 ft/min	-4.5 dB _A
End	300. knots	323.9 knots	165.99 kN	28900 m	5144 ft	2.71°	1551 ft/min	-4.5 dB _A
Gain	91. knots	106.8 knots	-7.61 kN	16433 m	2555 ft	0.°	511 ft/min	0. dB _A

Segment 5 Climb to 15000 ft

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. knots	323.9 knots	165.99 kN	28900 m	5144 ft	3.55°	2031 ft/min	-4.5 dB _A
End	300. knots	380.1 knots	183.48 kN	78879 m	15328 ft	3.55°	2383 ft/min	-4.5 dB _A
Gain	0. knots	56.2 knots	17.49 kN	49979 m	10184 ft	0.°	352 ft/min	0. dB _A

