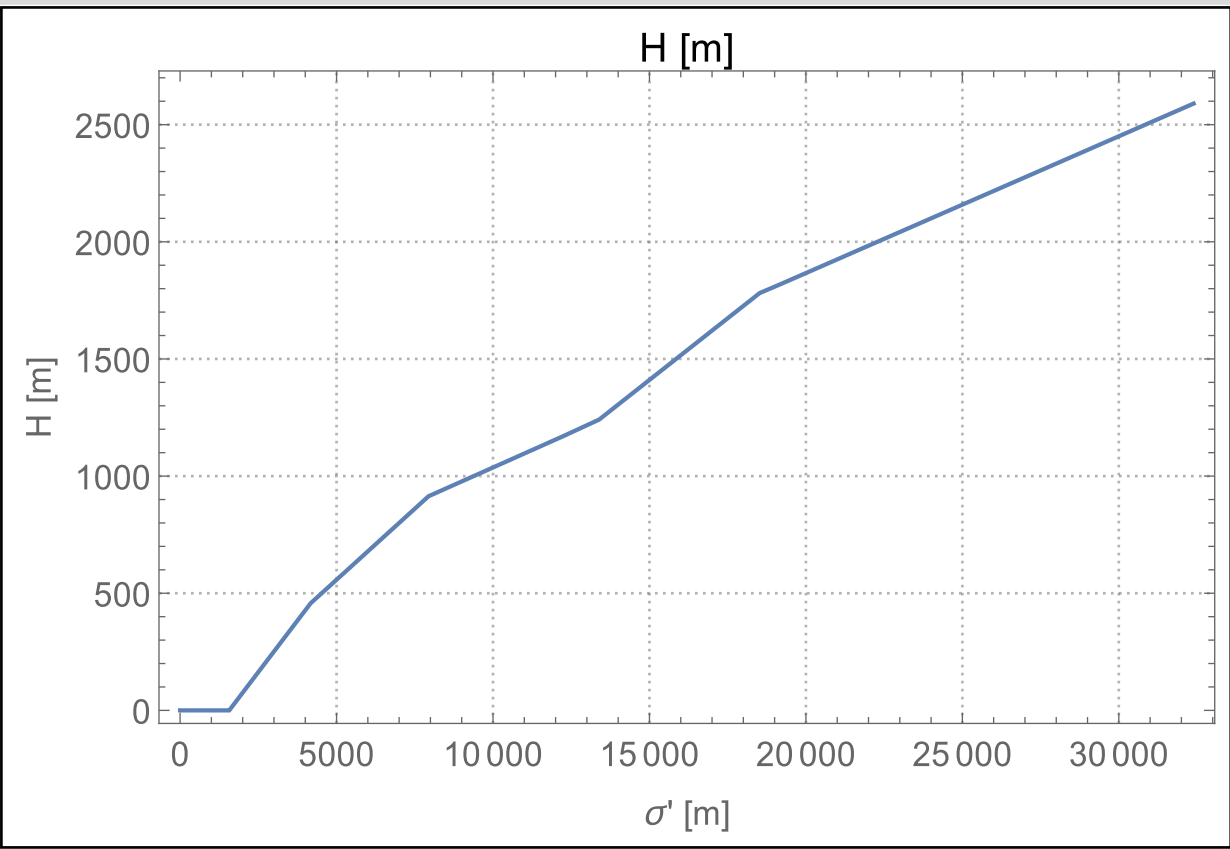
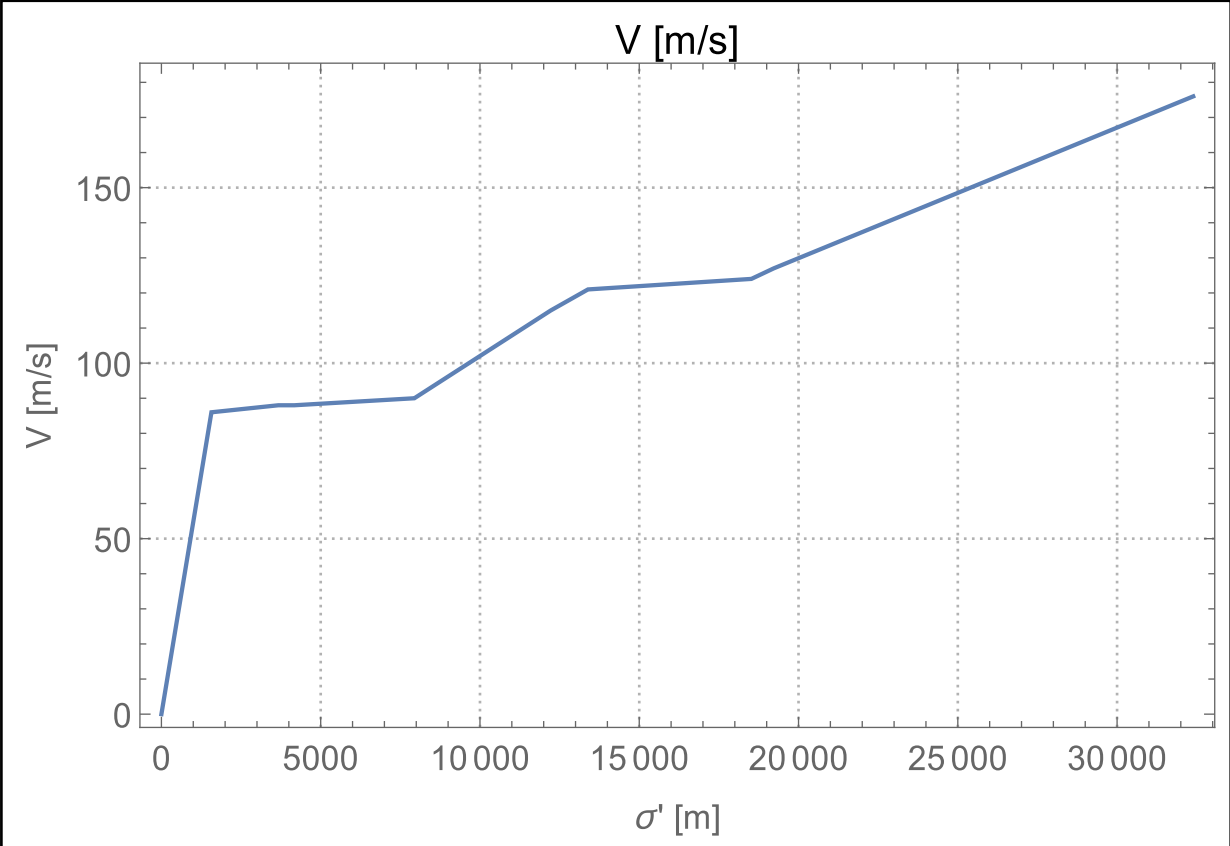
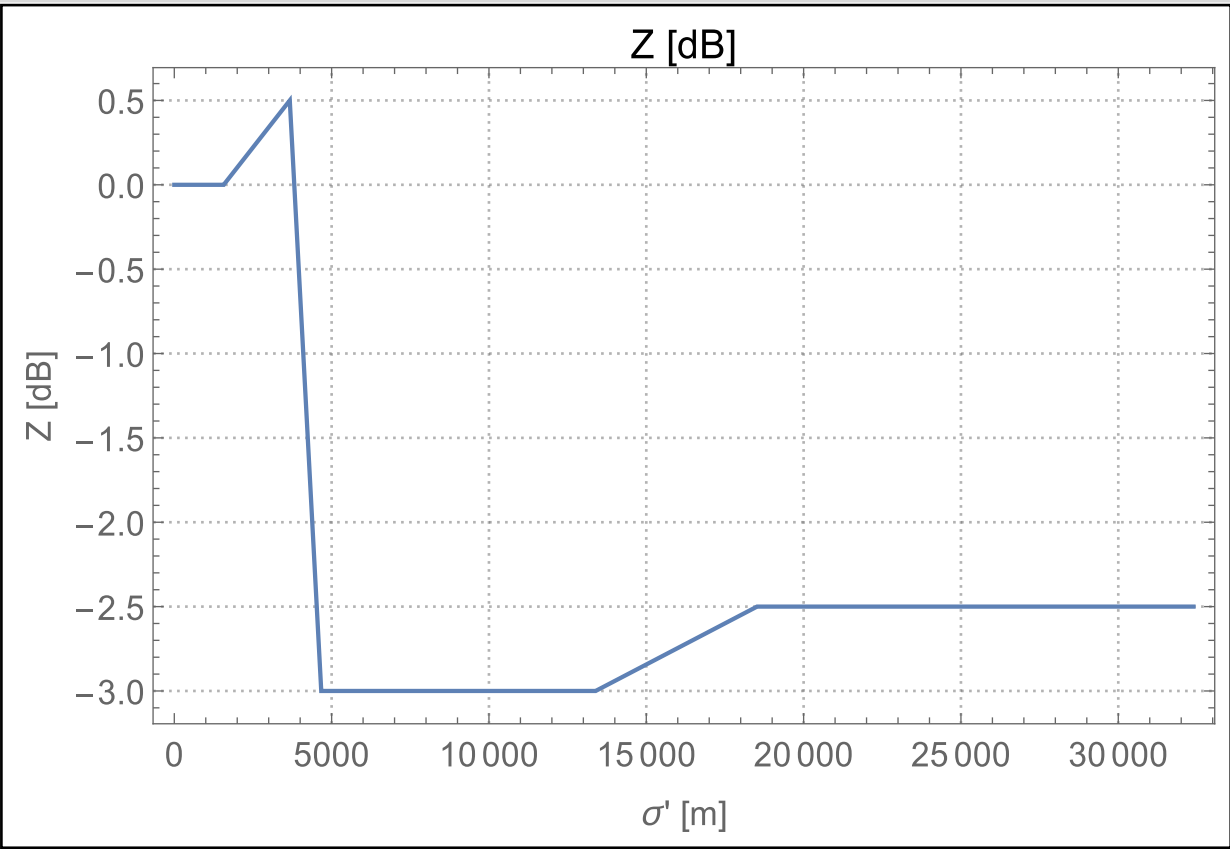


NADP1–ITO

A320–211 95% MTOM

Fixpunktprofil nach AzB

σ' [m]	Z [dB]	V [m/s]	H [m]
0	0	0	0
1570	0	86	0
3670	0,5	88	–
4170	–	88	457
4670	–3	–	–
7940	–3	90	914
12 220	–3	115	1169
13 390	–3	121	1241
18 520	–2,5	124	1781
19 220	–2,5	127	1821
32 390	–2,5	176	2590
σ' [m]	$\frac{dZ}{d\sigma'}$ [dB/m]	$\frac{dV}{d\sigma'}$ [1/s]	$\frac{dH}{d\sigma'}$
> 32 390	0	0	0,088



prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	1+F	MaxTakeoff	1500.	0.
3	Climb to 3000 ft	CS	1.	1+F	MaxClimb	3000.	0.
4	Accelerate to Flaps 1 Speed	ACC	0	1+F	MaxClimb	210.	0.
5	Accelerate to 220 kt	ACC	0	1.	MaxClimb	220.	0.
6	Climb to 10NM	CSD	0	1.	MaxClimb	18 520.	0.
7	Accelerate to Flaps UP Speed	ACC	0	1.	MaxClimb	225.	0.
8	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
9	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15 000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 kn	0. kn	23 749 lbf	0 m	328 ft	0. °	0 ft/min	0. dB _A
End	167. kn	167.8 kn	19 919 lbf	1573 m	328 ft	0. °	0 ft/min	0. dB _A
Gain	167. kn	167.8 kn	–3830. lbf	1573. 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. kn	167.8 kn	19 919 lbf	1573 m	328 ft	9.98 °	2945 ft/min	0. dB _A
End	167. kn	171.5 kn	20 346 lbf	4170 m	1828 ft	9.98 °	3011 ft/min	0.5 dB _A
Gain	0. kn	3.7 kn	427. lbf	2597. m	1500. ft	0. °	66. 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. kn	171.5 kn	16 473 lbf	4170 m	1828 ft	6.92 °	2093 ft/min	–3. dB _A
End	167. kn	175.4 kn	16 772 lbf	7938 m	3328 ft	6.92 °	2140 ft/min	–3. dB _A
Gain	0. kn	3.9 kn	299. lbf	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. kn	175.4 kn	16 772 lbf	7938 m	3328 ft	3.41 °	1057 ft/min	–3. dB _A
End	210. kn	223.4 kn	16 756 lbf	12 222 m	4165 ft	3.41 °	1345 ft/min	–3. dB _A
Gain	43. kn	48. kn	–16. lbf	4284. m	837. ft	0. °	288. ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	210. kn	223.4 kn	16 756 lbf	12 222 m	4165 ft	3.47 °	1369 ft/min	–3. dB _A
End	220. kn	234.8 kn	16 761 lbf	13 394 m	4398 ft	3.47 °	1439 ft/min	–3. dB _A
Gain	10. kn	11.4 kn	5. lbf	1172. m	233. ft	0. °	70. ft/min	0. dB _A

Segment 6 Climb to 10NM

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. kn	234.8 kn	16 761 lbf	13 394 m	4398 ft	6.02 °	2494 ft/min	–3. dB _A
End	220. kn	241.2 kn	17 143 lbf	18 520 m	6172 ft	6.02 °	2562 ft/min	–2.5 dB _A
Gain	0. kn	6.4 kn	382. lbf	5126. m	1774. ft	0. °	68. 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	220. kn	241.2 kn	17 143 lbf	18 520 m	6172 ft	3.2 °	1364 ft/min	–2.5 dB _A
End	225. kn	247.3 kn	17 149 lbf	19 224 m	6301 ft	3.2 °	1397 ft/min	–2.5 dB _A
Gain	5. kn	6.1 kn	6. lbf	704. m	129. ft	0. °	33. 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	225. kn	247.3 kn	17 149 lbf	19 224 m	6301 ft	3.35 °	1463 ft/min	–2.5 dB _A
End	300. kn	342.8 kn	17 399 lbf	32 394 m	8827 ft	3.35 °	2028 ft/min	–2.5 dB _A
Gain	75. kn	95.5 kn	250. lbf	13 170. m	2526. ft	0. °	565. ft/min	0. dB _A

Segment 9 Climb to 15000 ft

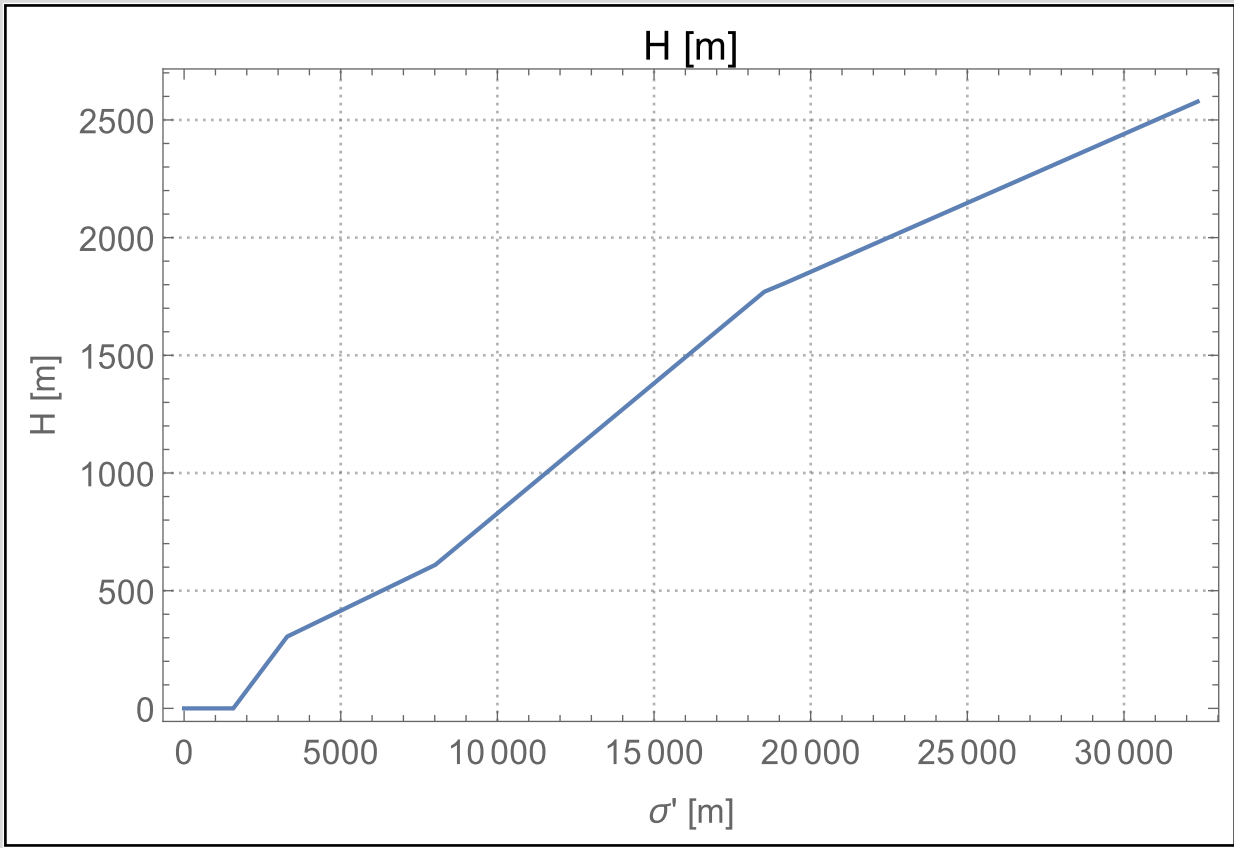
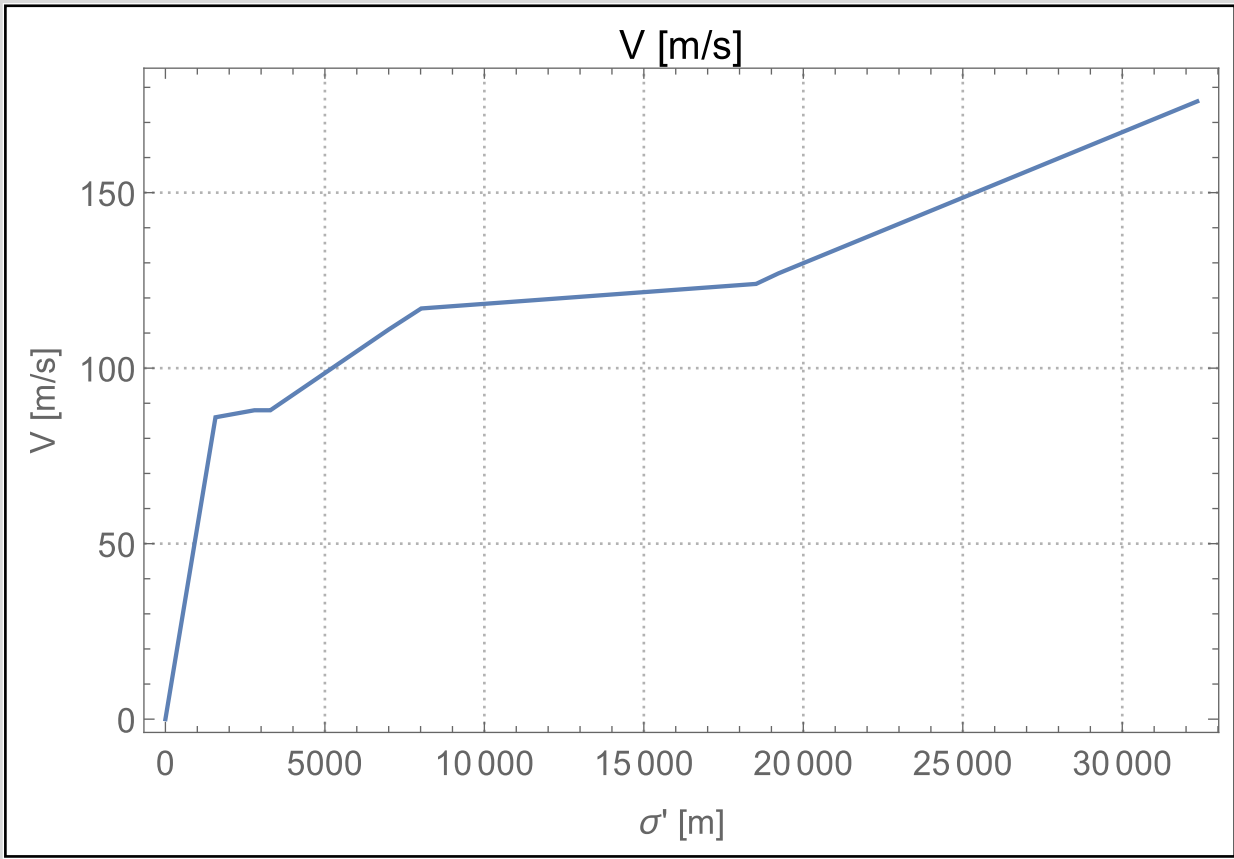
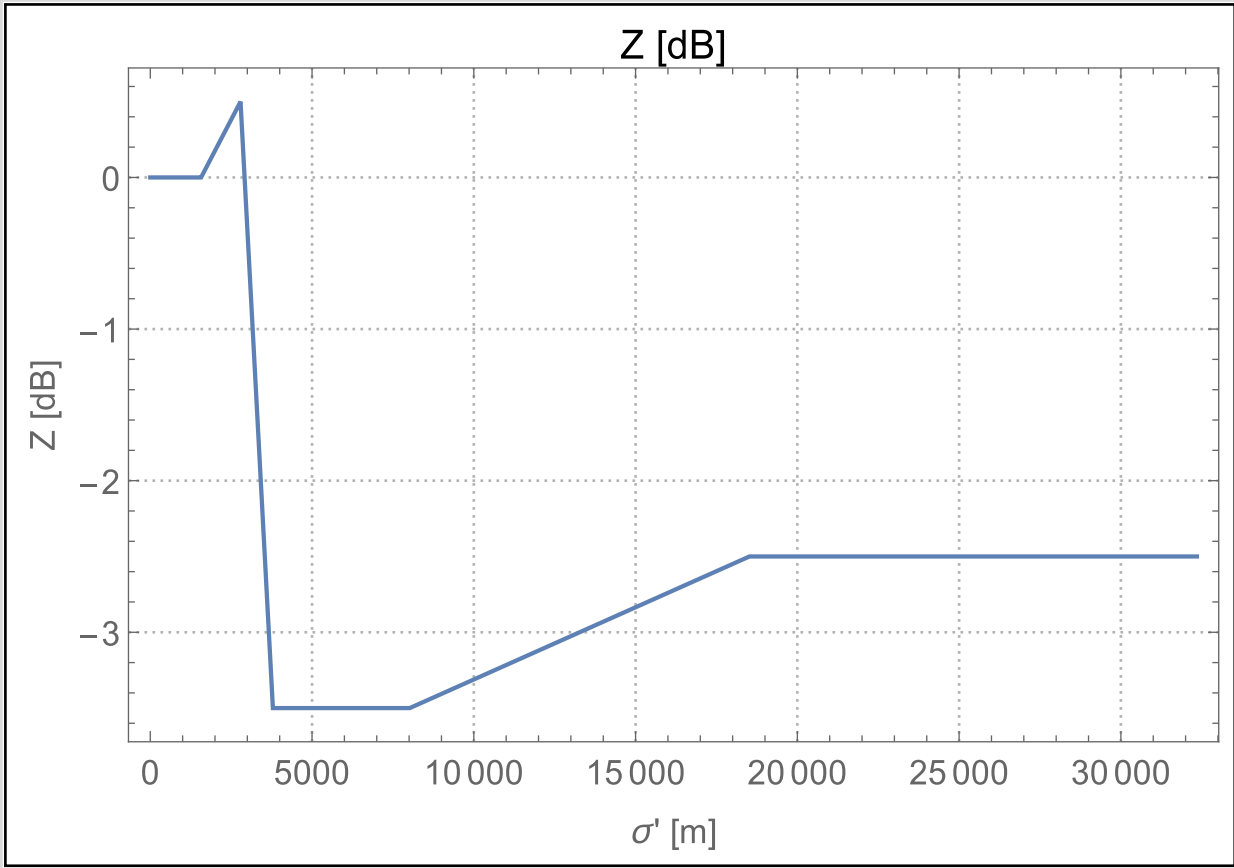
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. kn	342.8 kn	17 399 lbf	32 394 m	8827 ft	5.04 °	3049 ft/min	–2.5 dB _A
End	300. kn	380.1 kn	19 062 lbf	54 876 m	15 328 ft	5.04 °	3382 ft/min	–1. dB _A
Gain	0. kn	37.3 kn	1663. lbf	22 482. m	6501. ft	0. °	333. ft/min	1.5 dB _A

NADP2-10-ITO

A320-21195% MTOM

Fixpunktprofil nach AzB

σ' [m]	Z [dB]	V [m/s]	H [m]
0	0	0	0
1570	0	86	0
2790	0,5	88	–
3290	–	88	305
3790	–3,5	–	–
7000	–3,5	111	544
8020	–3,5	117	610
18 520	–2,5	124	1770
19 220	–2,5	127	1809
32 350	–2,5	176	2578
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 32350	0	0	0,088



prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	1+F	MaxTakeoff	v2+15	0.
2	Climb to 1000 ft	CS	0	1+F	MaxTakeoff	1000.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	1+F	MaxClimb	210.	0.
4	Accelerate to 220 kt	ACC	0	1.	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	1.	MaxClimb	18 520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	1.	MaxClimb	225.	0.
7	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15 000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 kn	0. kn	23 749 lbf	0 m	328 ft	0. °	0 ft/min	0. dB _A
End	167. kn	167.8 kn	19 919 lbf	1573 m	328 ft	0. °	0 ft/min	0. dB _A
Gain	167. kn	167.8 kn	–3830. lbf	1573. 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. kn	167.8 kn	19 919 lbf	1573 m	328 ft	10.06 °	2968 ft/min	0. dB _A
End	167. kn	170.3 kn	20 206 lbf	3291 m	1328 ft	10.06 °	3012 ft/min	0.5 dB _A
Gain	0. kn	2.5 kn	287. lbf	1718. m	1000. ft	0. °	44. 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. kn	170.3 kn	16 377 lbf	3291 m	1328 ft	3.68 °	1107 ft/min	–3. dB _A
End	210. kn	216.6 kn	16 341 lbf	7005 m	2112 ft	3.68 °	1408 ft/min	–3.5 dB _A
Gain	43. kn	46.3 kn	–36. lbf	3714. m	784. ft	0. °	301. ft/min	–0.5 dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	210. kn	216.6 kn	16 341 lbf	7005 m	2112 ft	3.75 °	1435 ft/min	–3.5 dB _A
End	220. kn	227.6 kn	16 340 lbf	8019 m	2330 ft	3.75 °	1508 ft/min	–3.5 dB _A
Gain	10. kn	11. kn	–1. lbf	1014. m	218. ft	0. °	73. ft/min	0. dB _A

Segment 5 Climb to 10NM

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. kn	227.6 kn	16 340 lbf	8019 m	2330 ft	6.3 °	2530 ft/min	–3.5 dB _A
End	220. kn	241. kn	17 134 lbf	18 520 m	6134 ft	6.3 °	2679 ft/min	–2.5 dB _A
Gain	0. kn	13.4 kn	794. lbf	10 501. m	3804. ft	0. °	149. ft/min	1. 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	220. kn	241. kn	17 134 lbf	18 520 m	6134 ft	3.21 °	1367 ft/min	–2.5 dB _A
End	225. kn	247.1 kn	17 141 lbf	19 222 m	6263 ft	3.21 °	1401 ft/min	–2.5 dB _A
Gain	5. kn	6.1 kn	7. lbf	702. m	129. ft	0. °	34. 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	225. kn	247.1 kn	17 141 lbf	19 222 m	6263 ft	3.35 °	1462 ft/min	–2.5 dB _A
End	300. kn	342.5 kn	17 389 lbf	32 353 m	8785 ft	3.35 °	2027 ft/min	–2.5 dB _A
Gain	75. kn	95.4 kn	248. lbf	13 131. m	2522. ft	0. °	565. ft/min	0. dB _A

Segment 8 Climb to 15000 ft

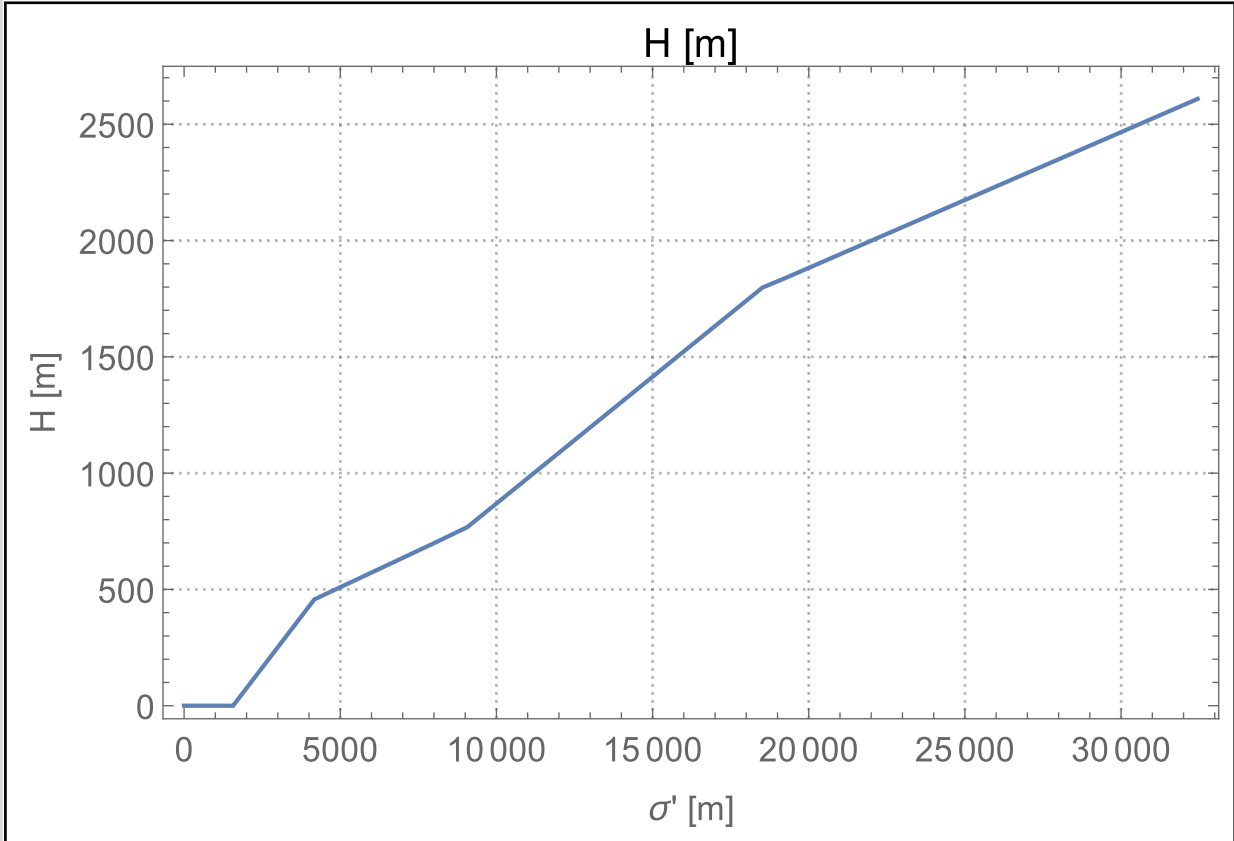
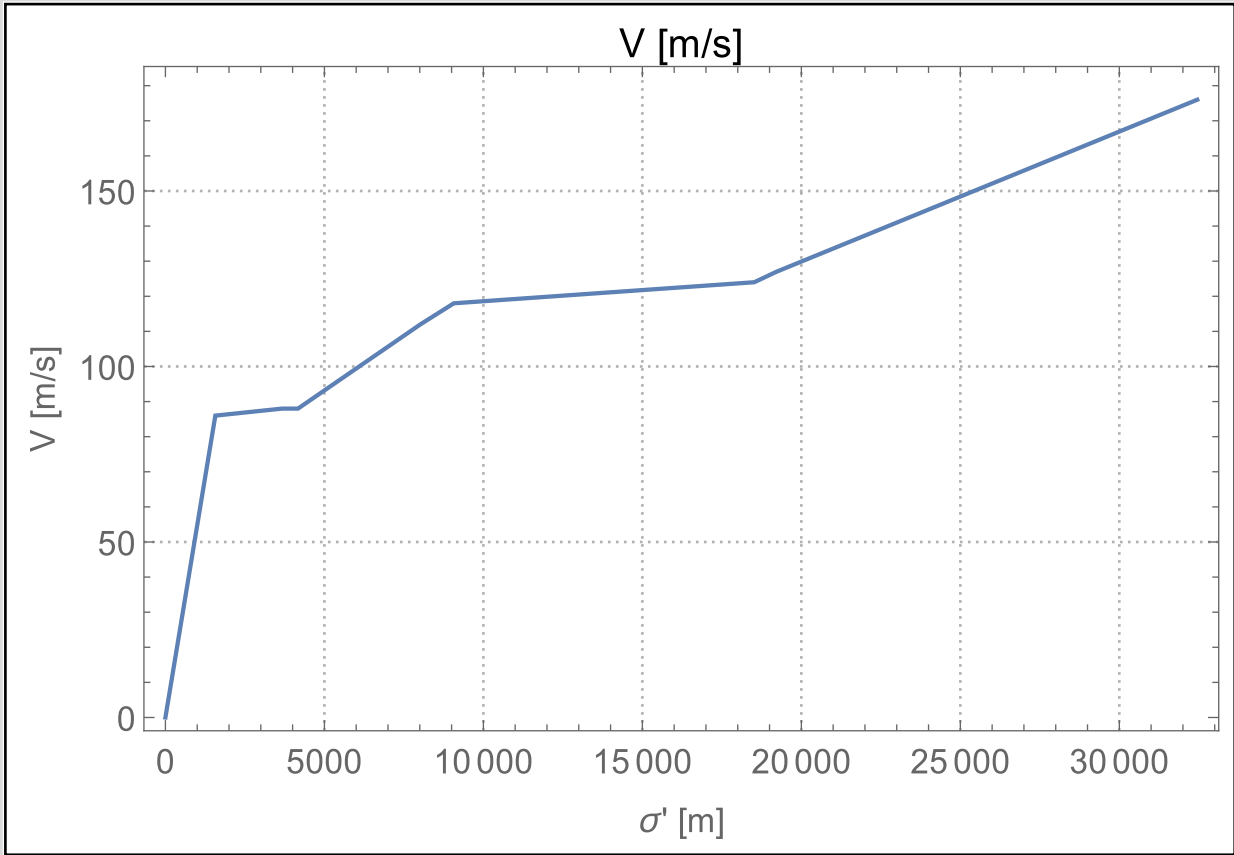
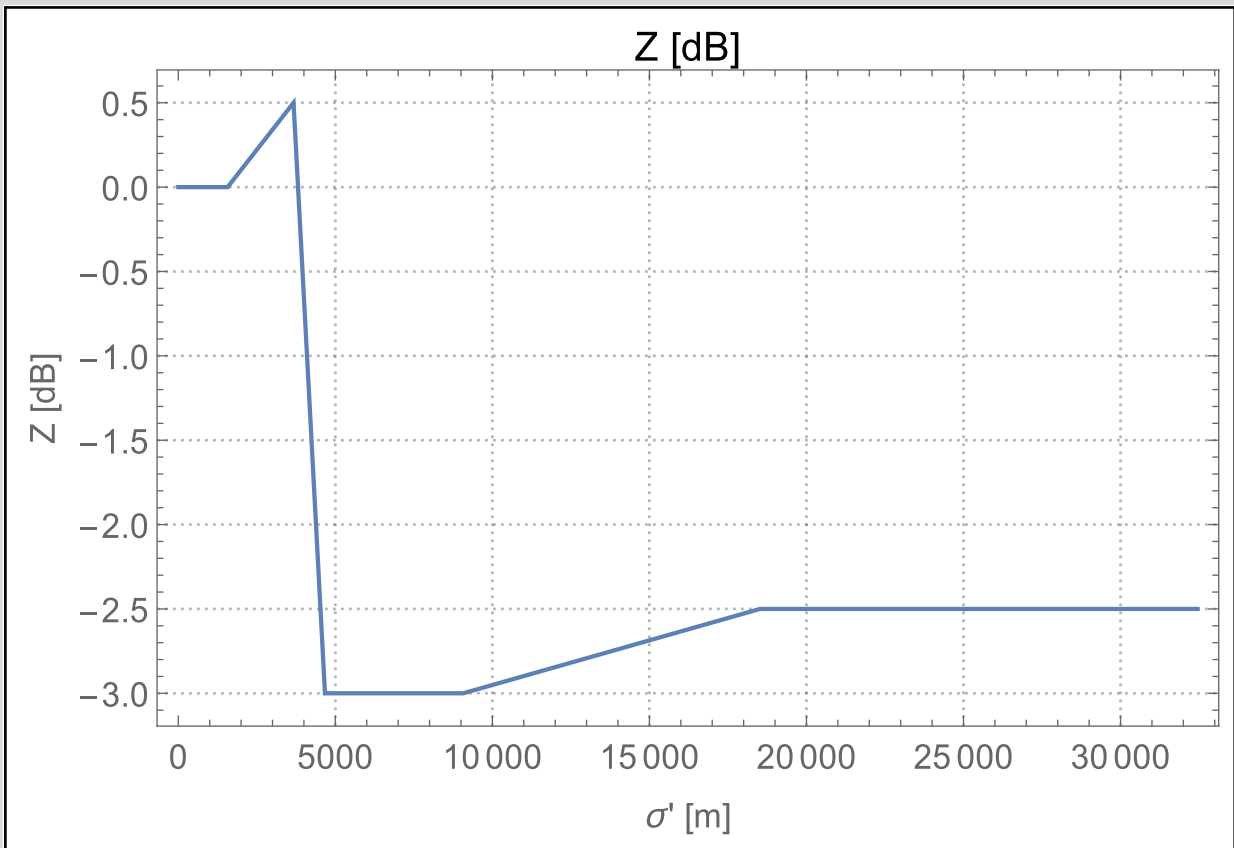
	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	300. kn	342.5 kn	17 389 lbf	32 353 m	8785 ft	5.04 °	3047 ft/min	–2.5 dB _A
End	300. kn	380.1 kn	19 062 lbf	54 962 m	15 328 ft	5.04 °	3382 ft/min	–1. dB _A
Gain	0. kn	37.6 kn	1673. lbf	22 609. m	6543. ft	0. °	335. ft/min	1.5 dB _A

NADP2–15–ITO

A320–211 95% MTOM

Fixpunktprofil nach AzB

σ' [m]	Z [dB]	V [m/s]	H [m]
0	0	0	0
1570	0	86	0
3670	0,5	88	–
4170	–	88	457
4670	–3	–	–
8020	–3	112	700
9070	–3	118	768
18 520	–2,5	124	1798
19 220	–2,5	127	1837
32 450	–2,5	176	2609
σ' [m]	$dZ/d\sigma'$ [dB/m]	$dV/d\sigma'$ [1/s]	$dH/d\sigma'$
> 32 450	0	0	0,088



prozedurales Profil nach ECAC Doc 29

Nr	Name	Typ	Cutback	Flap Setting	Thrust Rating	End Condition Value	Bank Angle
1	Take Off	TO	0	1+F	MaxTakeoff	v2+15	0.
2	Climb to 1500 ft	CS	0	1+F	MaxTakeoff	1500.	0.
3	Accelerate to Flaps 1 Speed	ACC	1.	1+F	MaxClimb	210.	0.
4	Accelerate to 220 kt	ACC	0	1.	MaxClimb	220.	0.
5	Climb to 10NM	CSD	0	1.	MaxClimb	18 520.	0.
6	Accelerate to Flaps UP Speed	ACC	0	1.	MaxClimb	225.	0.
7	Accelerate to 300 kt	ACC	0	ZERO	MaxClimb	300.	0.
8	Climb to 15000 ft	CS	0	ZERO	MaxClimb	15 000.	0.

Segment 1 Take Off

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	0 kn	0. kn	23 749 lbf	0 m	328 ft	0. °	0 ft/min	0. dB _A
End	167. kn	167.8 kn	19 919 lbf	1573 m	328 ft	0. °	0 ft/min	0. dB _A
Gain	167. kn	167.8 kn	–3830. lbf	1573. 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. kn	167.8 kn	19 919 lbf	1573 m	328 ft	9.98 °	2945 ft/min	0. dB _A
End	167. kn	171.5 kn	20 346 lbf	4170 m	1828 ft	9.98 °	3011 ft/min	0.5 dB _A
Gain	0. kn	3.7 kn	427. lbf	2597. m	1500. ft	0. °	66. 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. kn	171.5 kn	16 473 lbf	4170 m	1828 ft	3.61 °	1094 ft/min	–3. dB _A
End	210. kn	218.2 kn	16 442 lbf	8018 m	2625 ft	3.61 °	1392 ft/min	–3. dB _A
Gain	43. kn	46.7 kn	–31. lbf	3848. m	797. ft	0. °	298. ft/min	0. dB _A

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

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	210. kn	218.2 kn	16 442 lbf	8018 m	2625 ft	3.68 °	1419 ft/min	–3. dB _A
End	220. kn	229.4 kn	16 443 lbf	9070 m	2847 ft	3.68 °	1491 ft/min	–3. dB _A
Gain	10. kn	11.2 kn	1. lbf	1052. m	222. ft	0. °	72. ft/min	0. dB _A

Segment 5 Climb to 10NM

	CAS	TAS	f_N/δ [1/Eng]	Distance	Altitude	Climb Angle	Climb Rate	Z
Start	220. kn	229.4 kn	16 443 lbf	9070 m	2847 ft	6.22 °	2517 ft/min	–3. dB _A
End	220. kn	241.5 kn	17 155 lbf	18 517 m	6226 ft	6.22 °	2649 ft/min	–2.5 dB _A
Gain	0. kn	12.1 kn	712. lbf	9447. m	3379. ft	0. °	132. 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	220. kn	241.5 kn	17 155 lbf	18 517 m	6226 ft	3.21 °	1369 ft/min	–2.5 dB _A
End	225. kn	247.4 kn	17 161 lbf	19 224 m	6356 ft	3.21 °	1403 ft/min	–2.5 dB _A
Gain	5. kn	5.9 kn	6. lbf	707. m	130. ft	0. °	34. 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	225. kn	247.4 kn	17 162 lbf	19 224 m	6356 ft	3.34 °	1460 ft/min	–2.5 dB _A
End	300. kn	343. kn	17 413 lbf	32 451 m	8888 ft	3.34 °	2024 ft/min	–2.5 dB _A
Gain	75. kn	95.6 kn	251. lbf	13 227. m	2532. ft	0. °	564. 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. kn	343. kn	17 413 lbf	32 451 m	8888 ft	5.03 °	3046 ft/min	–2.5 dB _A
End	300. kn	380.1 kn	19 062 lbf	54 762 m	15 328 ft	5.03 °	3375 ft/min	–1. dB _A
Gain	0. kn	37.1 kn	1649. lbf	22 311. m	6440. ft	0. °	329. ft/min	1.5 dB _A