

virgin atlantic A340-600 <i>Flight Crew Operating Manual</i>	TAKEOFF MINIMUM SPEEDS	2.02.25 P 1	
		SEQ 080	REV 20

SPEEDS LIMITED BY VMC

Takeoff speeds all have a minimum value limited by control. These minimum control speeds are usually provided on each RTOW chart. If these are not available, use the following conservative values.

Pressure altitude (ft)	−2000	0	1000	2000	3000	4000	5000	6000	10000	14600	V1 min = VR min
CONF 1 + F	138	137	135	133	131	129	127	125	117	108	
CONF 2	138	137	135	133	131	129	127	125	117	108	
CONF 3	138	137	135	133	131	129	127	125	117	108	
Pressure altitude (ft)	−2000	0	1000	2000	3000	4000	5000	6000	10000	14600	V2 min
CONF 1 + F	138	138	136	134	133	130	129	127	120	112	
CONF 2	138	138	136	134	133	130	129	127	120	112	
CONF 3	138	138	136	134	133	130	129	127	120	112	

V2 LIMITED BY VMU/VMCA

The following tables, one per configuration, provide the V2 limited by minimum unstick speed.

TAKEOFF
MINIMUM SPEEDS

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MINIMUM V2 LIMITED BY VMU/VMCA (KT IAS)											
CONFIGURATION 1+F											
PRESSURE ALTITUDE (FT)	TAKEOFF WEIGHT (1000 KG)										
	180	200	220	240	260	280	300	320	340	360	370
-2000	138	144	150	156	162	167	172	178	183	189	191
0	138	144	150	156	162	167	173	178	184	189	192
1000	137	144	150	156	162	167	173	178	184	189	192
2000	137	144	150	156	162	167	173	179	184	189	192
3000	137	143	150	156	162	167	173	179	184	190	192
4000	137	143	150	156	162	167	173	179	185	190	192
5000	136	143	149	156	162	167	173	179	185	190	193
6000	136	143	149	155	162	167	173	179	185	191	193
10000	135	142	149	156	162	168	174	180	186	192	195
14600	135	142	149	156	163	169	176	182	189	195	198

TAKEOFF
MINIMUM SPEEDS

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MINIMUM V2 LIMITED BY VMU/VMCA (KT IAS)											
CONFIGURATION 2											
PRESSURE ALTITUDE (FT)	TAKEOFF WEIGHT (1000 KG)										
	180	200	220	240	260	280	300	320	340	360	370
-2000	138	139	146	151	157	162	167	173	178	183	185
0	138	139	146	151	157	162	167	173	178	183	185
1000	136	139	145	151	157	162	167	173	178	183	185
2000	134	139	145	151	157	162	167	173	178	183	185
3000	133	139	145	151	157	162	168	173	178	183	186
4000	132	139	145	151	157	162	168	173	178	183	186
5000	132	139	145	151	157	162	168	173	179	184	186
6000	132	139	145	151	157	162	168	173	179	184	186
10000	131	138	144	151	157	162	168	174	179	184	187
14600	131	138	144	151	157	163	169	174	180	186	188

TAKEOFF
MINIMUM SPEEDS

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MINIMUM V2 LIMITED BY VMU/VMCA (KT IAS)											
CONFIGURATION 3											
PRESSURE ALTITUDE (FT)	TAKEOFF WEIGHT (1000 KG)										
	180	200	220	240	260	280	300	320	340	360	370
-2000	138	138	142	148	153	158	163	168	173	178	180
0	138	138	142	148	153	158	163	169	174	178	180
1000	136	136	142	148	153	158	163	168	174	178	180
2000	134	136	142	148	153	158	163	168	174	178	180
3000	133	136	142	148	153	158	163	168	174	178	180
4000	130	136	142	147	153	158	163	168	174	178	180
5000	129	135	141	147	153	158	163	168	174	178	181
6000	129	135	141	147	153	158	163	168	174	178	181
10000	128	135	141	147	153	158	163	169	174	179	181
14600	127	134	140	147	153	158	163	169	174	179	182