

**BAE 146
Series 300**

**Take-off
Data Speeds**

**27000-46000
Kilogrammes**

INTRODUCTION

The data contained in this booklet is taken from the Bae 146 Series 3000 Flight Manual. These tables are intended to use in average temperature conditions but corrections to VR and V2 speeds are provided for other conditions if required.

All speeds are knots IAS.

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Non-Limiting
Speed charts

27000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	104	96	90
V ₂	115	106	100
V _{FTO}	147		
V _{ER}	157		
LANDING FLAPS	33 °	24 °	
V _{REF}	100	114	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	106	125	155

28000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	106	98	90
V ₂	117	107	100
V _{FTO}	151		
V _{ER}	161		
LANDING FLAPS	33 °	24 °	
V _{REF}	102	116	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	108	127	158

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29000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	108	100	92
V ₂	119	109	101
V _{FTO}	154		
V _{ER}	164		
LANDING FLAPS	33 °	24 °	
V _{REF}	104	117	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	109	128	160

30000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	111	102	94
V ₂	120	110	103
V _{FTO}	157		
V _{ER}	167		
LANDING FLAPS	33 °	24 °	
V _{REF}	106	119	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	111	130	163

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31000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	113	104	96
V ₂	122	112	105
V _{FTO}	159		
V _{ER}	169		
LANDING FLAPS	33 °	24 °	
V _{REF}	108	121	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	113	132	166

32000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	115	106	98
V ₂	124	114	106
V _{FTO}	162		
V _{ER}	172		
LANDING FLAPS	33 °	24 °	
V _{REF}	109	122	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	115	134	168

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33000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	117	108	100
V ₂	125	115	108
V _{FTO}	165		
V _{ER}	175		
LANDING FLAPS	33 °	24 °	
V _{REF}	111	124	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	116	135	171

34000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	120	110	102
V ₂	127	117	109
V _{FTO}	167		
V _{ER}	177		
LANDING FLAPS	33 °	24 °	
V _{REF}	113	126	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	118	137	173

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35000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	122	112	104
V ₂	129	118	111
V _{FTO}	170		
V _{ER}	180		
LANDING FLAPS	33 °	24 °	
V _{REF}	115	128	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	120	139	176

36000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	124	114	106
V ₂	131	120	113
V _{FTO}	172		
V _{ER}	182		
LANDING FLAPS	33 °	24 °	
V _{REF}	116	129	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	121	140	178

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37000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	126	116	108
V ₂	132	122	114
V _{FTO}	174		
V _{ER}	184		
LANDING FLAPS	33 °	24 °	
V _{REF}	118	131	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	123	142	181

38000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	128	118	109
V ₂	134	123	116
V _{FTO}	177		
V _{ER}	187		
LANDING FLAPS	33 °	24 °	
V _{REF}	119	132	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	124	143	183

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39000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	130	120	111
V ₂	136	125	117
V _{FTO}	179		
V _{ER}	189		
LANDING FLAPS	33 °	24 °	
V _{REF}	121	134	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	126	145	186

40000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	132	122	113
V ₂	137	127	119
V _{FTO}	181		
V _{ER}	191		
LANDING FLAPS	33 °	24 °	
V _{REF}	123	136	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	128	147	188

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41000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	134	124	115
V ₂	138	128	121
V _{FTO}	184		
V _{ER}	194		
LANDING FLAPS	33 °	24 °	
V _{REF}	124	137	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	129	148	190

42000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	136	126	117
V ₂	140	130	122
V _{FTO}	186		
V _{ER}	196		
LANDING FLAPS	33 °	24 °	
V _{REF}	125	139	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	131	149	193

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43000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	137	127	118
V ₂	142	132	124
V _{FTO}	188		
V _{ER}	198		
LANDING FLAPS	33 °	24 °	
V _{REF}	127	140	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	132	151	195

44000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	139	129	120
V ₂	144	133	125
V _{FTO}	191		
V _{ER}	201		
LANDING FLAPS	33 °	24 °	
V _{REF}	128	142	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	133	152	198

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45000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	141	131	122
V ₂	146	135	127
V _{FTO}	193		
V _{ER}	203		
LANDING FLAPS	33 °	24 °	
V _{REF}	130	143	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	135	154	200

46000 kg			
TAKE OFF FLAPS	18 °	24 °	30 °
V _R	143	132	124
V ₂	147	136	128
V _{FTO}	195		
V _{ER}	205		
LANDING FLAPS	33 °	24 °	
V _{REF}	131	144	
ABNORMAL FLAPS	30 °	18 °	0°
V _{REF}	136	156	203

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FLAPS	max speed IAS	
18°	215	
18° ENR	175	
24°	180	
30°	170	
33°	150	
Gear	205	
Rough air	250	0.6 M