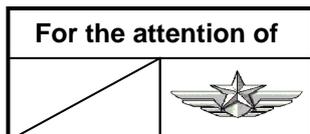


SAFETY PROMOTION NOTICE

SUBJECT: GENERAL

Understanding the Importance of the Height-Velocity (H-V) curve



AIRCRAFT CONCERNED	Version(s)	
	Civil	Military
EC120	B	
AS350	B, BA, BB, B1, B2, B3, D	L1
AS550		A2, C2, C3, U2
EC130	B4, T2	
SA341	G	B, C, D, E, F, H
SA342	J	L, L1, M, M1, Ma

The Height-Velocity (H/V) diagram and the related “Avoid” area are sometimes informally referred to as “Dead Man’s Curve” in the helicopter industry. Determined by a combination of Height, Velocity and sometimes aircraft weight, it determines an area above the ground from which a safe single engine landing on a smooth, level and hard surface cannot be ensured.

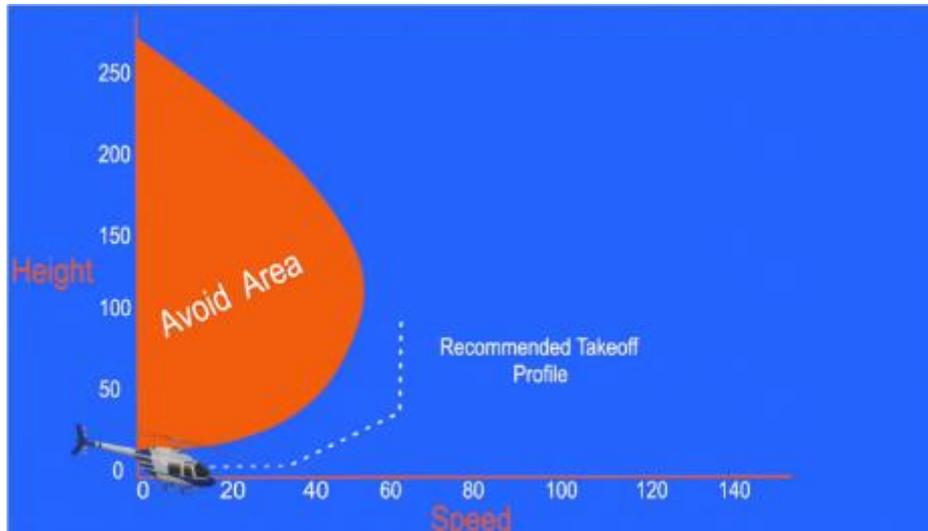
As part of the Regulatory Performance Data section of the flight manual, this schematic must be well known and understood. The goal of this series of videos is to provide some background information about its creation and use.

No. 3766-P-00

Episode 1: Development of the H-V curve

This first episode explains how the H-V curve is plotted prior to aircraft certification with flight tests.

LINK: <https://www.youtube.com/watch?v=x6k9r4SC-JA>



Episode 2: Positive factors

This second episode provides some reminders regarding elements to keep in mind while using the H-V curve: Certification tests may not be representative of your operational environment. This episode focuses on areas that might benefit the pilot.

LINK: <https://www.youtube.com/watch?v=KxB97I4K3r0>



No. 3766-P-00

Episode 3: Detrimental factors

This third episode provides some reminders regarding elements to keep in mind while using the H-V curve: Certification tests may not be representative of your operational environment. This episode focuses on areas that might be detrimental to the pilot.

LINK: <https://www.youtube.com/watch?v=VXPAyQmA6W8>



Episode 4: Practical recommendations

This fourth episode provides some useful practical recommendations.

LINK: <https://www.youtube.com/watch?v=-YnXNVxPIIM>



Also refer to the EASA article:

<https://www.easa.europa.eu/community/topics/bruce-webb-hv-diagram-video-series-feb-mar-2022>