

Cherry BX-2 Supplement # 9

Envelope 1999

A recently performed re-calculation of the flight envelope according to JAR-VLA did result in some deviations compared to the old data in previous Cherry documents. Flight-tests have shown that the lift-factor (C_a) is significantly higher than the profile-table (NACA) did reflect. This means that the 3.8 g limit will be reached at a lower speed already. The maneuver-speed (V_a) is therefore reduced to 170 km/h = 92 kts.

The markings for the green arc and the max.-speed can be increased though. So flying in turbulent conditions is permitted with up to 219 km/h (118 kts). For flying planes the areas on the speed indicator do not necessarily need to be changed. The mandatory sticker showing the maneuver-speed (V_a) must be replaced with an new one stating:

Max. Maneuver-speed 170 km/h (92 kts)

The manuals need to be updated accordingly.

