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skylane 182 model q v speeds vso 45 stall speed in landing configuration vs 48 stall speed in clean configuration vr 50 takeoff rotation speed vx 57 best angle of climb vy 76 best rate of climb vfe 140 10 95 max flap extended va 111 maneuvering speed max gross wt vno 143 maximum structural cruising speed vne 179 never exceed speed v speeds are specific airspeeds that are defined for operational reasons such as limitations e g maximum flaps extended speed v fe or performance requirements e g best rate of climb speed v y the cessna 182 skylane is an american four seat single engined light airplane built by cessna of wichita kansas it has the option of adding two child seats in the baggage area cessna recommends a 66 knot short field approach speed equal to 1 3 vso but i ve used 60 knots many times with power on and never experienced that verge of destruction feeling like all the skylanes that went before it the turbo skylane rg is magnificently mediocre the cessna 182 quickly baptized skylane in its early days is a tricycle gear aircraft developed from the robust backcountry all star cessna 180 introduced in 1956 the 182 quickly became a hit due to its flexibility and ease of operation spawning a total of 23 variants over time in discussions of the takeoff performance of military aircraft the term vref stands for refusal speed refusal speed is the maximum speed during takeoff from which the air vehicle can stop within the available remaining runway length for a specified altitude weight and configuration 19 more speed mods are available from knots2u at knots2u net or 262 763 5100 and maple leaf aviation at 204 728 7618 aircraftspeedmods ca met co aire has drag reducing wingtips see metcoaire com and phone 800 814 2697 the turbo skylane can realize significant performance benefits at non oxygen altitudes the lycoming is so severely de rated that max cruise power is listed as 88 percent if you re flying at 12 000 feet with power at the limit you can expect 158 160 knots depending upon weight get into the pilot s seat of the 230 horsepower cessna skylane aircraft and get ready to experience even greater destinations with its high wing design and durable airframe this celebrated piston aircraft delivers a level of performance perfect for the next level of pilot in aviation v speeds are standard terms used to define airspeeds important or useful to the operation of all aircraft these speeds are derived from data obtained by aircraft designers and manufacturers during flight testing for aircraft type certification updated on august 30 2022 this article may contain affiliate links where we earn a commission from qualifying purchases v speeds refer to just about any airspeed that s used by pilots and all types of aircraft this is the complete guide to explaining v speeds in aviation cessna 182 in response to market demand cessna developed the 182 a tricycle gear variant of the cessna 180 the basic 182 model became available in 1956 in 1957 the skylane model appeared differences being in the level of equipment on board general aviation aircraft depict the most commonly used and most safety critical airspeeds or v speeds on the airspeed indicator these are displayed as color coded arcs and lines located on the face of an aircraft s airspeed indicator flight instrument white green yellow and red unless otherwise noted the speeds listed above are based on a maximum weight and may be used for any lesser weight to achieve the performance specified in the performance section for take off distance of the aircraft approved flight manual the speed appropriate to the particular weight must be used isa 8k ft ifr reserve no wind rec lean mixture max wt 87 gallons usable vr vno the vne or the never exceed speed of an aircraft is the v speed which refers to the velocity that should never be exceeded due to risk of structural failure most commonly due to wing or tail deformation or failure and less commonly due to aeroelastic flutter usually in faster aircraft the following maneuver guide is designed to provide a technique for completing each vfr maneuver required by the faa s practical test standards for airman certification standards by performing each maneuver as described you will consistently fly the aircraft and think through the maneuver the same way every time overview v speeds are indicated airspeeds that are used for setting specific limitations of an aircraft type some v speeds are published directly by the manufacturer as an unchanging limitation while other v speeds may change depending on aircraft configuration or weight performance specifications horsepower 1 x 230 hp best cruise speed 141 kias best range i 550 nm fuel burn 75 13 5 gph stall speed 48 kias rate of climb 980 fpm ceiling 18 900 ft takeoff distance 625 ft landing distance 590 ft takeoff distance over 50ft obstacle 1 205 ft if fire is not extinguished increase glide speed in an attempt to find an airspeed that will provide incombustible mixture magneto switch off

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risk of structural failure most commonly due to wing or tail deformation or failure and less commonly due to aeroelastic flutter usually in faster aircraft

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