§ 29.479 Level landing conditions.

(a) Attitudes. Under each of the landing conditions prescribed in paragraph (b) of this section, the rotorcraft must be designed for a limit load factor of not less than the limit inertia load factor substantiated under §29.725.

(b) Loading conditions. The rotorcraft must be designed for the following landing loading conditions:

1. Vertical loads applied under §29.471.
2. The loads resulting from a combination of the loads applied under paragraph (b)(1) of this section with drag loads at each wheel of not less than 25 percent of the vertical load at that wheel.
3. The vertical load at the instant of peak drag load combined with a drag component simulating the forces required to accelerate the wheel rolling assembly up to the specified ground speed, with—
   (i) The ground speed for determination of the spin-up loads being at least 75 percent of the optimum forward flight speed for minimum rate of descent in autorotation; and