CIVIL AIR REGULATIONS

PART 29
PHYSICAL STANDARDS FOR AIRMEN

As Amended to Jan. 10, 1946

CIVIL AERONAUTICS BOARD

WASHINGTON, D. C.

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FOREWORD

The physical standards for airmen prescribed in this Part are defined in three general classes according to the degree of physical fitness required to perform the duties authorized by the airman certificates. As a convenient reference, the classes, types and grades of airman certificates included in each class are as follows:

FIRST CLASS
Airline transport pilot.

SECOND CLASS
Commercial pilot.
Commercial lighter-than-air pilot.
Air-traffic control-tower operator.

THIRD CLASS
Student pilot.
Private pilot.
Student lighter-than-air pilot.
Private lighter-than-air pilot.
Free balloon pilot.

The medical certificate, issued by an authorized medical examiner of the Administrator under the provisions of other Parts, is differentiated from the airman certificate in that the former attests only that the holder thereof has been found to meet the physical requirements prescribed for a particular class and does not authorize the holder to pilot an aircraft, serve as an air-traffic control-tower operator, or perform any other duties requiring airman certificates.

The medical certificate is applicable to any airman certificate within the class for which it is designated, or to any airman certificate within any other class for which a lesser degree of physical fitness is prescribed.

29.1 Physical standards. The physical standards for airmen shall be as follows:

29.10 First class.

(*a*) **Eye.** Applicant shall have:

(1) A visual acuity of at least 20/20 in each eye separately without correction: *Provided*, That if the vision in either or both eyes is not poorer than 20/50 and is brought up to 20/20 or better in each such eye by glasses, the applicant may be qualified upon condition that correcting glasses be worn while exercising the privileges of his airman certificate.

(2) An average depth perception of 30 millimeters or less on a prescribed depth-perception apparatus, with or without correction: *Provided*, That if the depth perception is greater than 30 millimeters without correction, and is corrected to at least 30 millimeters average by glasses, the applicant may be qualified upon condition that such glasses be worn while exercising the privileges of his airman certificate.

(3) No diplopia in any meridian within 35 degrees from the point of visual fixation.

(4) Not more than one diopter of hyperphoria in either eye.

(5) Not more than 10 diopters of esophoria.

(6) Not more than 5 diopters of exophoria.

(7) An abduction of not less than 3 diopters nor more than 15 diopters.

(8) An adduction of 6 or more diopters.

(9) An accommodation of at least V=1.00 at 18 inches with each eye separately without the use of correcting glasses.

(10) Normal color vision.

(11) Normal visual fields, and

UNITED STATES OF AMERICA
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Civil Air Regulations Amendment 29-1
Effective: December 10, 1943
Adopted: December 10, 1943

Section 29.2 of the Civil Air Regulations is amended to read as follows:

"29.2 Waiver of physical standards. An airman certificate shall be issued to an applicant, other than an applicant for the original issuance of an airline transport pilot certificate, who does not meet the appropriate physical standards if his aeronautical experience, ability and judgment compensate for his physical deficiency and he meets all other requirements for the issuance of said certificate. Any certificate issued under these circumstances shall state that the applicant does not meet the appropriate physical standards prescribed herein but that his physical deficiencies were found to be compensated by his demonstrated aeronautical experience, ability, and judgment. Such certificate may be limited as to type of operation, type of aircraft, or period of reexamination."

By the Civil Aeronautics Board:

/s/ *Fred A. Toombs*

Fred A. Toombs
Secretary

(S E A L)

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