



Aircraft Loads

In 1958, the Federal Aeronautical Administration (FAA) adopted a policy of limiting participation in pavement design to airports who designed for airplanes with a takeoff weight of 350,000 pounds. Pavements and buried structure designs were to adhere to those limits. Aircraft manufacturers have accepted and followed the 1958 rules while developing planes that greatly exceed the 350,000 pound limit by adding sufficient wheels to the landing gears. For instance, the Boeing 747 has a takeoff weight of as much as 870,000 pounds and the Airbus 380 weighs up to 1,340,000 pounds before takeoff. For both of these planes the landing gear has sufficient wheels with the proper spacing to prevent excessive pavement stress. The FAA Advisory Circular, Airport Pavement Design and Evaluation AC 150-5320-6E, published in 2009, is based on new geotechnical research and experience, and has completely revised the previous pavement design procedures. The new aircraft live load distributions recognize much heavier aircraft takeoff weights, but also do not overload existing runway designs.

Buried structures under airport runways and taxiways must be able to support the large aircraft live loads as well as the dead load from the soil and runway pavement. Additional wheels on the landing gear will spread the aircraft weight over proportionally more area to limit stress in the pavement, but the load on buried structures may increase because of the overlap of individual wheels or groups of wheel loads. The design of buried structures is dependent on the pavement material and thickness, distributed live load magnitude, shape and size of the structure and depth of fill over the top of the structures.

Live Loading

Appendix 3 of AC 150/5320-6E, Design of Structures For Heavy Airplanes, states, "Information concerning the landing gear arrangement of future heavy airplanes is speculative." It goes on to advocate building for those future yet undetermined loads when it states, "Strengthening of structures, however, may prove to be extremely difficult, costly, and time consuming." For design purposes of airfield drainage structures, the aircraft loading is represented by three

landing gear configurations; a bicycle or tandem gear with fore and aft rectangular footprints and two tricycle patterns with either a longitudinal or transverse orientation of the footprint. For a given aircraft weight, each of the three basic gear configurations shall be used in the analysis of each drainage structure and the most conservative design selected for construction.

Figure 1 Type A Bicycle

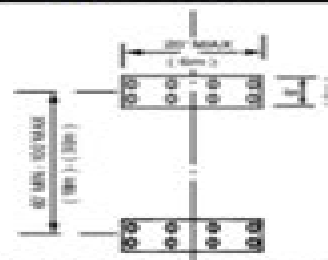


Figure 2 Type B Tricycle

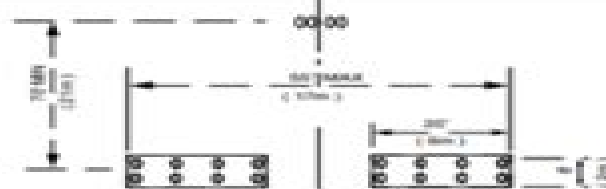
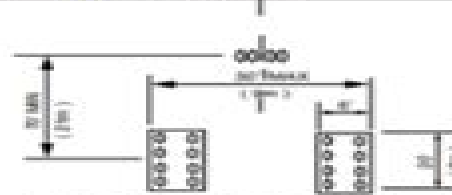


Figure 3 Type C Tricycle



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Table of Contents Manual On Aircraft Loads

1. Understanding the eBook Manual On Aircraft Loads
 - The Rise of Digital Reading Manual On Aircraft Loads
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual On Aircraft Loads
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Manual On Aircraft Loads
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual On Aircraft Loads
 - Personalized Recommendations
 - Manual On Aircraft Loads User Reviews and Ratings
 - Manual On Aircraft Loads and Bestseller Lists
5. Accessing Manual On Aircraft Loads Free and Paid eBooks
 - Manual On Aircraft Loads Public Domain eBooks

- Manual On Aircraft Loads eBook Subscription Services
- Manual On Aircraft Loads Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Manual On Aircraft Loads Compatibility with Devices
 - Manual On Aircraft Loads Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Manual On Aircraft Loads
 - Highlighting and Note-Taking Manual On Aircraft Loads
 - Interactive Elements Manual On Aircraft Loads
- 8. Staying Engaged with Manual On Aircraft Loads
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Manual On Aircraft Loads
- 9. Balancing eBooks and Physical Books Manual On Aircraft Loads
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Manual On Aircraft Loads
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Manual On Aircraft Loads
 - Setting Reading Goals Manual On Aircraft Loads
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Manual On Aircraft Loads
 - Fact-Checking eBook Content of Manual On Aircraft Loads
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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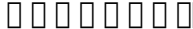
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