

Pt. 29**GROUND AND WATER HANDLING
CHARACTERISTICS**

- 29.231 General.
- 29.235 Taxiing condition.
- 29.239 Spray characteristics.
- 29.241 Ground resonance.

MISCELLANEOUS FLIGHT REQUIREMENTS

- 29.251 Vibration.

Subpart C—Strength Requirements**GENERAL**

- 29.301 Loads.
- 29.303 Factor of safety.
- 29.305 Strength and deformation.
- 29.307 Proof of structure.
- 29.309 Design limitations.

FLIGHT LOADS

- 29.321 General.
- 29.337 Limit maneuvering load factor.
- 29.339 Resultant limit maneuvering loads.
- 29.341 Gust loads.
- 29.351 Yawing conditions.
- 29.361 Engine torque.

CONTROL SURFACE AND SYSTEM LOADS

- 29.391 General.
- 29.395 Control system.
- 29.397 Limit pilot forces and torques.
- 29.399 Dual control system.
- 29.411 Ground clearance: tail rotor guard.
- 29.427 Unsymmetrical loads.

GROUND LOADS

- 29.471 General.
- 29.473 Ground loading conditions and assumptions.
- 29.475 Tires and shock absorbers.
- 29.477 Landing gear arrangement.
- 29.479 Level landing conditions.
- 29.481 Tail-down landing conditions.
- 29.483 One-wheel landing conditions.
- 29.485 Lateral drift landing conditions.
- 29.493 Braked roll conditions.
- 29.497 Ground loading conditions: landing gear with tail wheels.
- 29.501 Ground loading conditions: landing gear with skids.
- 29.505 Ski landing conditions.
- 29.511 Ground load: unsymmetrical loads on multiple-wheel units.

WATER LOADS

- 29.519 Hull type rotorcraft: Water-based and amphibian.
- 29.521 Float landing conditions.

MAIN COMPONENT REQUIREMENTS

- 29.547 Main and tail rotor structure.
- 29.549 Fuselage and rotor pylon structures.
- 29.551 Auxiliary lifting surfaces.

14 CFR Ch. I (1–19 Edition)**EMERGENCY LANDING CONDITIONS**

- 29.561 General.
- 29.562 Emergency landing dynamic conditions.
- 29.563 Structural ditching provisions.

FATIGUE EVALUATION

- 29.571 Fatigue tolerance evaluation of metallic structure.
- 29.573 Damage tolerance and fatigue evaluation of composite rotorcraft structures.

Subpart D—Design and Construction**GENERAL**

- 29.601 Design.
- 29.602 Critical parts.
- 29.603 Materials.
- 29.605 Fabrication methods.
- 29.607 Fasteners.
- 29.609 Protection of structure.
- 29.610 Lightning and static electricity protection.
- 29.611 Inspection provisions.
- 29.613 Material strength properties and design values.
- 29.619 Special factors.
- 29.621 Casting factors.
- 29.623 Bearing factors.
- 29.625 Fitting factors.
- 29.629 Flutter and divergence.
- 29.631 Bird strike.

ROTORS

- 29.653 Pressure venting and drainage of rotor blades.
- 29.659 Mass balance.
- 29.661 Rotor blade clearance.
- 29.663 Ground resonance prevention means.

CONTROL SYSTEMS

- 29.671 General.
- 29.672 Stability augmentation, automatic, and power-operated systems.
- 29.673 Primary flight controls.
- 29.674 Interconnected controls.
- 29.675 Stops.
- 29.679 Control system locks.
- 29.681 Limit load static tests.
- 29.683 Operation tests.
- 29.685 Control system details.
- 29.687 Spring devices.
- 29.691 Autorotation control mechanism.
- 29.695 Power boost and power-operated control system.

LANDING GEAR

- 29.723 Shock absorption tests.
- 29.725 Limit drop test.
- 29.727 Reserve energy absorption drop test.
- 29.729 Retracting mechanism.
- 29.731 Wheels.
- 29.733 Tires.
- 29.735 Brakes.
- 29.737 Skis.