

CANADAIR CL-215

Specifications

ABOUT US

Avincis is one of the **world's leading emergency aerial services operators**. The environment we work in is challenging and complex, but our purpose is clear - we exist to save lives and protect communities wherever we serve.

As the largest provider of emergency aerial services in Europe - with additional operations in Africa and South America - governments trust us to deliver safe, reliable, and efficient services when their people are most in need.

Our areas of focus are: helicopter emergency medical services, air ambulance services, search and rescue, aerial firefighting, as well as dedicated emergency aerial transport for oil and gas platforms.

If you haven't heard of us that's because although we have been doing this vital work for decades, we often operate invisibly on behalf of our customers who are predominantly government organisations.

In total, we operate from more than 180 bases across Spain, Portugal, Italy, Norway, Sweden, Finland, Mozambique and Chile.

We oversee our global operations, from our headquarters in Lisboa, Portugal where we moved in 2023.

With a fleet of approximately **220 helicopters (180) and aeroplanes (40)**, Avincis counts on a team of more than **2,400 courageous and talented professionals**, including experienced pilots, crews, technicians, and support teams to deliver its unique service.

We are extremely proud of our diverse and multi-cultural workforce.

Our mixed fleet and global network of bases, means we can mobilise aircraft between countries, which not only provides us with efficiency gains, but also demonstrates the size, capacity and resources of the company as a group. These factors mean we can offer our customers more cost-effective solutions and distinguish us from other operators in the market.

We don't just fly amazing aircraft, we also maintain and fix them in our facilities where our on-site engineers and technicians have the capability to carry out complex repairs, rebuilds and modifications.

We also have an awesome in-house R&D team who focus on developing new innovative technologies as well as new training capabilities for the next generation of pilots, technical crew and engineers.

Our experienced pilots are trained to fly in the most challenging environments - they are there when lives are at risk and time is of the essence.

With a unique combination of cutting-edge technology and highly skilled personnel we can run emergency operations with the world's best safety standards wherever we fly.



Our mission is to save lives and protect communities wherever we serve.

OUR NETWORK

55,000

WE COMPLETE APPROXIMATELY
55,000 LIFESAVING MISSIONS A YEAR

73,000

WE FLY APPROXIMATELY
73,000 HOURS A YEAR





CANADAIR CL-215

OEM



NUMBER IN FLEET

3

AGE

48 years

TYPE

CL-215

VARIANT

CL-215-1A10 (CL-215)

TYPE

Fixed-Wing

MISSION PROFILE TYPE

Amphibious forest firefighting aircraft

ENGINE TYPE

Two double WASP R2800 radial engines manufactured by Pratt & Whitney

MAXIMUM TAKE-OFF WEIGHT (MTOW)

43,500 lbs (19,730 Kg) is permitted in the disposable load operation.
Only 37,700 lbs (17,100 Kg) is permitted in the utility operation.

	DISPOSABLE LOAD OPERATION		UTILITY OPERATION	
	LAND	WATER	LAND	WATER
TAKE-OFF	43.500 lbs (≈19730 Kg)	N/A	37.700 lbs (≈17100 Kg)	37.700 lbs (≈17100 Kg)
LANDING	34.400 lbs (≈15600 Kg)	34.400 lbs (≈15600 Kg)	34.400 lbs (≈15600 Kg)	37.000 lbs (≈16783 Kg)
ZERO FUEL	40.000 lbs (≈18144 Kg)	40.000 lbs (≈18144 Kg)	33.800 lbs (≈15330 Kg)	36.400 lbs (≈16510 Kg)

MANEUVERING LOAD LIMITS

0 DEGREE FLAPS	-1. OG to +2. 5G
WITH FLAPS	-0. OG to 2. OG

PITCH SETTING

Low Pitch Stop	9.5 degrees
Constant Speed Range	9.5 to 30 degrees
Feathered	81 degrees

PROPELLERS

Number and Type	Two - 43E60-583-6903-10S
Manufacturer	Hamilton Standard
Blades - Number and Type	Three - 6903-10S
Diameter Limits	Maximum 14 ft. 3 in. (4,34 m) Minimum 13 ft. 11.5 in (4,25 m)



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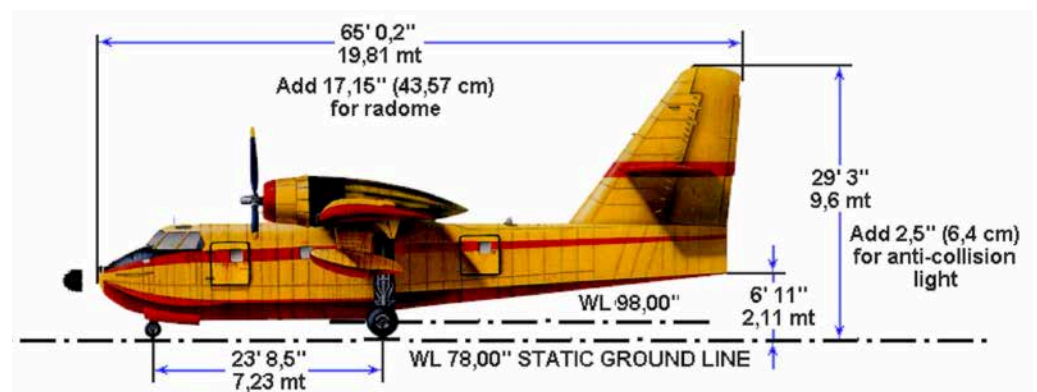
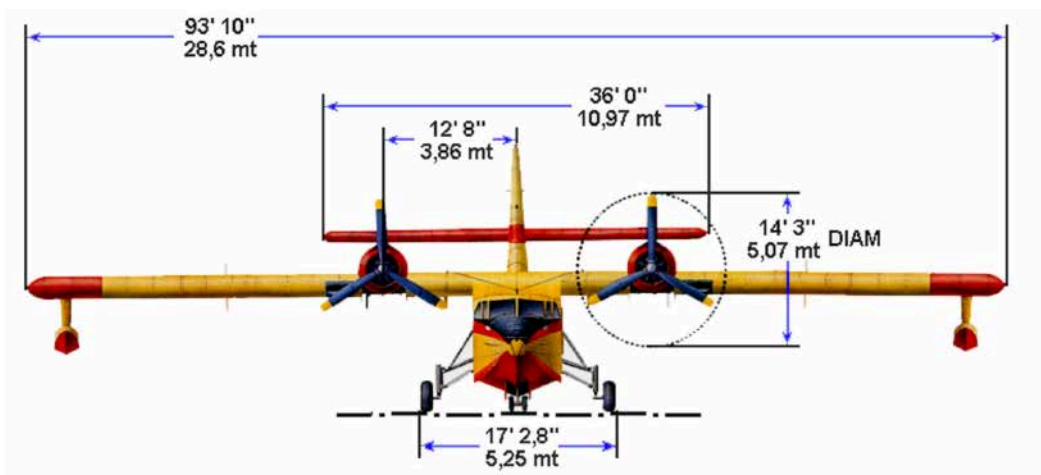
SPECIFICATION AND CAPACITIES

	I.A.S (Kts)
Maximum operating speed	188
Maximum cruising speed	164
Minimum control speed	86
Ferry range	3,260 Km
Maximum endurance	1760 Nm
	11 hours

Fuel	USABLE 1301 IMP.GAL. 9,360 lbs (≈4245 Kg) @ 0 degrees C
Water tanks	1200 IMP.GAL (≈4540 Kg)

OVERALL DIMENSIONS - LAND

The Main Landing Gear dimension has a gross mass of 43,500 lbs (19,730 kg)

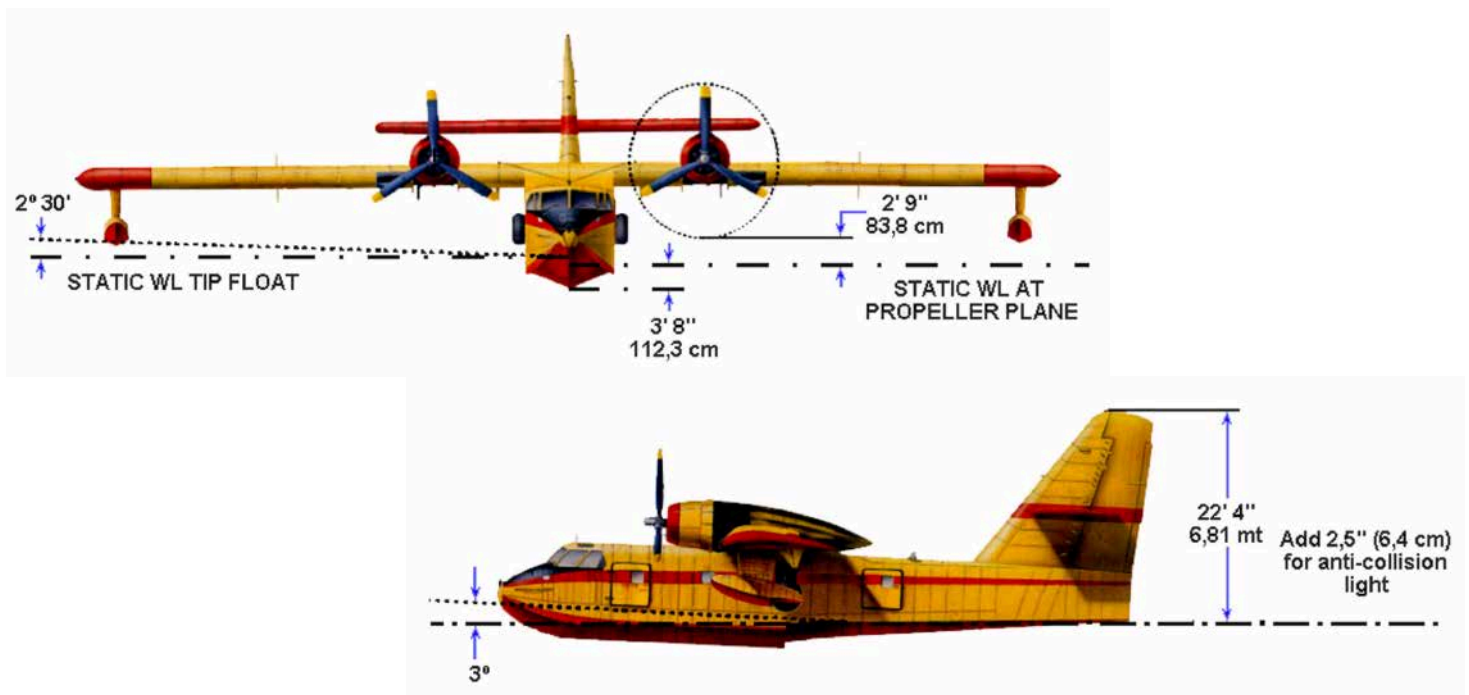


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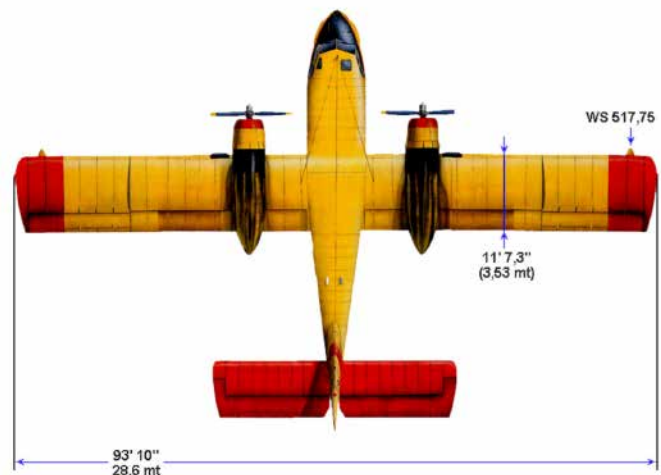
VERTICAL DIMENSIONS - WATER

The dimensions and clearances have a gross mass of 38,000 lbs (17,236 kg)



WING DIMENSIONS

Span	93 ft. 10 in. (28,60 mt)
Basic chord - C (constant)	11 ft. 7,3 in (3,53 mt)
Incidence	2 degrees
Sweepback	0 degrees
Dihedral	0 degrees
Aspect ratio	8,15
Wing float wing station	WS 517,75
Wing float displacement	1,900 lb (861,83 kg)

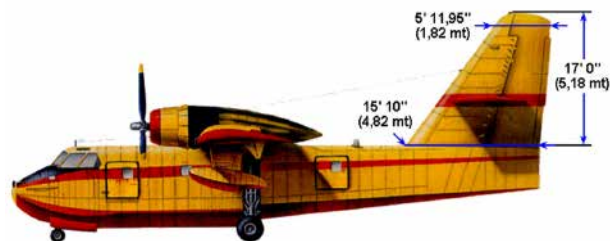
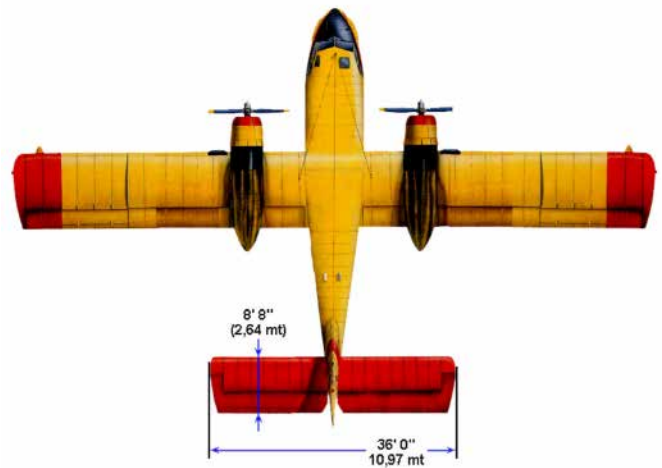


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HORIZONTAL STABILIZER AND ELEVATOR DIMENSIONS

Span	36 ft. (10,97 mt)
Chord (constant)	8 ft. 8 in. (2,64 mt)
Incidence	-1 degree
Dihedral	0 degrees
Sweepback	0 degrees
Aspect ratio	4,23

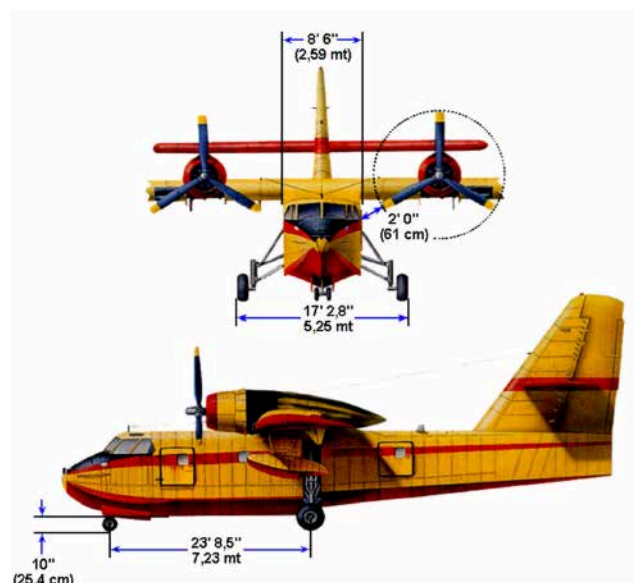


VERTICAL STABILIZER AND RUDDER DIMENSIONS

Height above fuselage	17 ft. (5,18 mt)
Root chord	15 ft. 10 in. (4,82 mt)
Tip chord (theoretical)	5 ft. 11,95 in. (1,82 mt)
Aspect ratio	1,56

FUSELAGE DIMENSIONS

Step height	10 in. (25,4 cm)
External width (beam)	8 ft. 6 in. (2,59 mt)
Internal cabin height (max)	6 ft. 3 in. (1,91 mt)
Internal floor width (max)	7 ft. 10 in. (2,38 mt)
Main landing gear track	17 ft. 2,8 in. (5,25 mt)
Wheel base	23 ft. 8,5 in. (7,23 mt)
Propeller/fuselage clearance	2 ft. (61 cm)





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ADVANCED FEATURES

- Two water tanks with capacity of 1,200 IMP.GAL ≈4,540 Kg
- Emergency opening and closing of the water doors
- Foam mixing system

PASSENGER AND FREIGHT FEATURES

- Air heating or ventilation

SAR / FIREFIGHTING / HEMS FEATURES

- Weather radar system
- ATC (Air Traffic Control) Transponder System
- Global Positioning System (GPS)

SAFETY FEATURES

- Oxygen
- Fire extinguisher
- First aid kit
- Axe
- Crowbar
- Bilge pump and escape slide
- Boarding and marine equipment such as boarding ladders
- Anchor and boat hook
- Emergency Locator Transmitter
- Icing protection