

# Radical design to “fly” America’s Cup

The AC75 boats developed for the 36th America’s Cup in Auckland are designed to lift out of the water on hydrofoils and fly across the tops of the waves at speeds of more than 50 knots

## AMERICA’S CUP CLASS AC75 BOAT

■ **Sails:** Double-skinned soft mainsail plus jib or larger Code Zero foresail for light winds

■ **Hull:** Return to monohull after previous three America’s Cups contested on multihulls

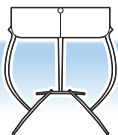
■ **Hydrofoils**  
Two side foils and one on base of rudder. Foil wings have flaps, similar to aircraft wing, to control lift and flying height

**Rudder foil**  
Provides lift at back of boat

**Side foils**  
Cantilevering arms with wings

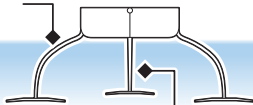
**Bustle keel:** Helps lift boat out of water and increases efficiency of sails when foiling

Front view of hull



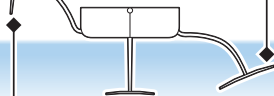
**Dock configuration**  
Both foils down – maximum stability and minimum beam

Foil arm



**Stable sailing mode**  
Maximum stability in manoeuvres and difficult conditions

Leeward foil



**Normal sailing mode**  
Leeward foil provides lift, windward foil provides stability

## RACE COURSES



Weight  
7.5 tonnes

Mast  
height  
26.5m

Beam: 5m  
Crew: 11

Hull length: 20.7m