

# Building an Amateur Built Aircraft

Process	What you do	What the CAA does	CAA Forms	
Select aircraft from plans or kitset	Check with the manufacturer that the kitset meets 51% compliance			
Before construction	Get copy of AC21-4 from CAA web site	Recommends that you join the <a href="#">Sport Aircraft Association of NZ (SAA)</a> . The SAA can provide build assist documents and technical mentors to guide you through the construction process.	<a href="#">AC21-4</a>	
Construction	Document the construction in writing and with photos, especially those areas that are closed in. Use guidance from AC21-4 and the SAA mentor.			
Project complete	Make an application for: Registration, Issue of Special Category Airworthiness Certificate and Test Pilot Approval	Acknowledges the applications and will discuss inspection dates, the test pilot and flight test areas with you	Registration Fit & Proper Person Airworthiness Certificate Test Flight Approval	<a href="#">24047-01</a> <a href="#">24047-02</a> <a href="#">24021-06</a> <a href="#">24019-03</a>
CAA inspection		Inspect aircraft, construction log, and photo records Review and approve the maintenance programme Check weight and balance calculations and log entries Review log books for required entries and certification Witness ground runs and undercarriage retractions (if applicable) Ensure appropriate placards installed Issue Airworthiness Certificate Issue Phase 1 Operating Limitations	Tech Log AD Log Airframe Log Engine Log Propeller Log Weight & Balance  Radio Station Approval	CAA006 CAA1464 CAA2101 CAA2158 CAA2110 <a href="#">CAA2102</a> & <a href="#">CAA2173</a> <a href="#">CAA2129</a>
Test flights	Use the SAA test schedule, or the CAA can provide one.			
Flight tests complete	Write a full flight test report, copy to the CAA Complete Test Flight Schedule, copy to the CAA Make certification in Airframe Log book stating test flight programme completed satisfactorily Record all manoeuvres flown (if aerobatic list entry speeds and spin recovery technique) and limits to which aircraft flown, ie, VNE, forward and aft C of G, and MAUW Forward log books, test report and schedule to the CAA	Assess test results Review log books for appropriate certifications Develop Phase 2 Operating Limitations from test results Issue Phase 2 Operating Limitations Returns log books and reissued documents to you		