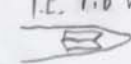


Executive Summary (5 pts) 5
 Summary of critical margins of safety (5 pts) 5
 Documentation of geometry (5 pts) 5

Comments on validity of FEM (10 total points)
 Rib web mesh and elements (1 pts) 1
 Spar web mesh and elements (1 pts) 1
 Spar caps mesh and elements (1 pts) 1
 Rib caps mesh and elements (1 pts) 1
 Materials and properties (3 pts) 3
 Loads and displacement boundary conditions (3 pts) 3

Very nice
 * T.E. Rib web ?

 ID BEAM ELMS DEFINED
 For "Rib CAPS" ✓

Documentation of finite element model (5 pts) 5
 external loads, elements used, number of DOF B.C. ?

Verification of finite element model (hand analyses, any mention of convergence, observation of load balance, strain energy ratio) (5 pts) 4

Documentation of internal loads (see individual analyses) (5 pts) 4
 specific reference to critical elements

As a minimum, I expected the following analyses: (45 total pts)

- For a critical wing root section perform the following analyses:
 - Upper skin buckling (4 pts) 4
 - Lower skin sizing (4 pts) 4
 - Spar web shear buckling (4 pts) 4
 - Rib web shear buckling (4 pts) 4
 - Upper skin stringer crippling/buckling (4 pts) 4
 - Lower skin stringer sizing (4 pts) 3
 - Upper spar cap crippling/buckling (4 pts) 4
 - Lower spar cap sizing (4 pts) 3
 - Fastener spacing along spars/ribs (assume 1/8" solid 2024-T31 rivets, with an allowable of 500 lbs shear per rivet) (4 pts) 4

- Sample calculations for above (5 pts) 5
- Weight assessment (4 pts) 4

Conclusions (10 pts)
 Validity of the design 10
 Recommendations for additional study or design changes
 Proposed weight savings
 Implemented analytical recommendations

Organization and Grammar (5 pts) 4.5

Total: (100 pts.) 95.5

PEER REVIEW: NONE - PD / MUST ASSUME UNIFORM ASSESSMENT.

AN EXCELLENT REPORT!
 I AM QUITE IMPRESSED BY EFFORT.