Composite Panel Checklist

TEST SPECIMEN #

Please Indicate Type of Testing Preferred:

Streamlined testing (FAA 8130-9 required) ☐

Test plan requested ☐

Company Name:	Contact Name:		
Phone:	E-Mail:		
Date Sent:	P.O. #:		
Aircraft Make:	Model:	S/N #:	Tail #:

What area of the aircraft does this panel represent? (i.e. sidewall, cabin floor, crew seat, etc.) _____

TEST DATA IS IN SUPPORT OF (As Required): Field Approval ☐ Major Repair & Alteration ☐ Minor Repair & Alteration ☐

Organization Designation Authorization (ODA) ☐ Type Certificate (TC) ☐ Technical Standard Order (TSO) ☐

Supplemental Type Certificate (STC) ☐

FAA form 8110-3 may only be issued aircraft specific for U.S. registered or U.S. State of Design aircraft.

Please complete checklist for each panel submitted. A completed FAA form 8130-9, test specimen drawings, and copies of packing slips or invoices providing traceability for each panel component (Nomex, aluminum, foam, veneer, leather, fabric, adhesive, etc.) must be included for each panel set submitted.

TYPES OF COMPOSITE TESTS AVAILABLE:

1. **Horizontal** 23.853 ☐
2. **12-Second Vertical** 25.853(a) ☐
3. **60-Second Vertical** 25.853(a) ☐
4. **45-Degree Angle** 25.855(d) App F Part 1 ☐
5. **60-Degree Wire** 25.869(a) App F Part 1 ☐
6. **Applicable Tests for the "as installed state" for this aircraft** ☐

If Skandia is fabricating the test specimens, does Skandia have your permission to issue FAA 8130-9 forms on your behalf? **Yes** ☐ **No** ☐

REQUIREMENTS FOR SPECIMENS TO BE TESTED:

Horizontals, 12- and 60-Second Verticals less than .25": Woven specimens (fabric, carpet, etc.) three strips, 3" x 12" cut from across the roll **AND** three strips, 3" x 12" cut from up the roll. Non-woven specimens (leather, vinyl, plastic, foam, etc.) three strips, 3" x 12". **12- and 60-Second Verticals more than .25"**: Woven specimens (fabric, carpet, etc.) six strips, 3" x 12" cut from across the roll **AND** six strips, 3" x 12" cut from up the roll. Non-woven specimens (leather, vinyl, plastic, foam, etc.) six strips, 3" x 12". **45-Degree Angle:** Three specimens, 8½" x 8½". **60-Degree Wire:** Three specimens, 34" long.

Per FAA Handbook, DOT/FAA/AR-00/12 Chapter 1.0, when testing two samples per 1.6.2.4 for test specimens greater than 0.25" (6.35 mm), the recorded burn length will be from the face with the greatest burn length in accordance with section 1.6.2.9

If edge filler is used, it must be called out on the 8130-9 but should be omitted from both the material list and the composite sketch as it will be eliminated from the test specimens per 14 CFR 25.853 App F Part 1(b)(2).

As required by App F, foam shall be tested in 1/2" thicknesses. If the panel consists of two or more foams glued together, the foam specimens should be two 1/4" (three 1/16", etc.) pieces glued together per AC 25-17 Transport Airplane Cabin Interiors Crashworthiness Handbook or other accepted FAA test method.

Per FAA Fire Handbook, DOT/FAA/AR-00/12, Chapter 1, Paragraph 1.4.4.1 “For testing purpose where a part is used in several thicknesses, the minimum thickness will be tested.”

Additional reference material: Advisory Circular AC 25—853-1, AC 21-25A, AC23-2 and Aircraft Materials Fire Test Handbook DOT/FAA/AR-00/12, FAA Policy Statement PS-ANM-25.853-01.

IF USING A PROCESS SPECIFICATION CALLOUT, A COPY OF THE PROCESS SPECIFICATION MUST BE INCLUDED.

Composite Panel Checklist Streamline Testing

ADDITIONAL COMMENTS:

To be Tested: **Side A** ☐ **Side B** ☐ **Both Sides** ☐ **(Applies to Vertical Testing Only)**

Composite Panel Build-Up Material List

Packing Lists or Invoices must be supplied as traceability for all items ***Test Specimen #***

ITEM NO.	ITEM TYPE	ITEM DESCRIPTION	P.O. NUMBER
EXAMPLE 1	*PANEL*	*.50" ABC Co., P/N 012345 Aluminum Honeycomb*	*01-2345*
EXAMPLE 2	*VENEER*	*.030" XYZ Corp., Walnut Burl*	*98765*

ITEM NO.	SKETCH OF COMPOSITE BUILD-UP All Tolerances +/- .030"

Adhesive the Components are Bonded with:

CERTIFICATION FOR PART 27 AND PART 29 ROTORCRAFT (HELICOPTER), PART 23 NORMAL AND COMMUTER CATEGORY IS ALSO AVAILABLE

All work accomplished in accordance with Skandia, Inc. Work Instructions FL101-01 through FL104-01.

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