



Seat Fireblocking Checklist

Flammability Testing & Certification

Step 1: General Information

Please enter all the general information and aircraft fields below. All fields are required.

COMPANY NAME	CONTACT NAME	PHONE
FAX	EMAIL	DATE SENT
PUCHASE ORDER	AIRCRAFT COMPLETION DATE	

Aircraft Information

AIRCRAFT MAKE	AIRCRAFT MODEL
AIRCRAFT SERIAL NUMBER	AIRCRAFT TAIL NUMBER

Step 2: Testing & Fabrication

Please enter all the testing and fabrication fields below. All fields are required.

DOES SKANDIA HAVE YOUR PERMISSION TO FABRICATE TEST SPECIMENS AND ISSUE FAA 8130-9 FORMS ON YOUR BEHALF?

Yes No

TEST DATA IS IN SUPPORT OF:	FAA PROJECT #
Field Approval	
Major Repair & Alteration	
Minor Repair & Alteration	
Supplemental Type Certificate (STC)	
Type Certificate (TC)	
Technical Standard Order (TSO)	
Organization Designation Authorization (ODA)	
Other	



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Step 3: Seat Information

What configuration in the aircraft are being added or modified?

SEAT CONFIGURATION

Enter the number of seats for each category

SINGLE PASSENGER DOUBLE PASSENGER DIVANS LAV SEAT JUMP SEAT/FLIGHT ATTENDANT SEAT

ARE SEATS NEW OR EXISTING IN THE AIRCRAFT?

New Existing

Step 4: Seat Upholstery

Aircraft seats are manufactured to either an aircraft Type Certificate or to a TSO. Re-upholstery of a seat can affect its certification basis. The modifier of the seats should check with either the Type Certificate or the TSO holder before re-upholstering the seats. The modifier may be required to do additional testing or gain additional approvals to maintain airworthiness approval

SEAT MANUFACTURER

ARE THE SEATS BEING TESTED PER

- Type Certificate
- TSO C-39B (9g)
- TSO C-127A (16g)

SEAT PART NUMBERS

If seats are being tested to 14 CFR 25.853 (C) in support of TSO C-127a, we will then need the following information: (for 16g seats only).

SEAT PART NUMBERS

SEAT SERIAL NUMBERS



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SEAT PART NUMBERS (CONTINUED)

SEAT SERIAL NUMBERS (CONTINUED)



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Step 5: Seat Composite Tests

All aircraft seats require flammability testing for all components of the seat (armrest, shrouds, close-out, drawers, etc.) tested in the “as installed state” per 14 CFR 25.853 (a).

All components of a seat must also meet the requirements of 14 CFR 25.853 (a)(ii) 12-second vertical burn test as a composite representing the actual build-up. Skandia can perform this additional testing.

1. Copies of **INVOICES OR PACKING LISTS** providing traceability for all fabricating components including panels (Nomex, wood, aluminum, fiberglass, etc.), laminates, veneers, foam, finishes, poly coats, leather, fabric, vinyl, mirror, adhesives, flame retardants/treatments and all other materials used in production.
2. Sketch, production drawing or Composite Panel Production Build-up form of each different production assembly.
3. Original FAA form 8130-9 for each set of fabricated test specimens submitted.
4. Vertical Burn Test, 12 second: Three (3) panels fabricated to represent production usage; panels must be 3” x 12”. If panels have a woven surface (i.e., fabric, carpet, etc.), three panels each of both warp and fill are required.
5. Provide substructure material information. (What is the armrest or wrap around, etc. structure made of?)

ARMRESTS

Yes No

SEAT SHROUDS

Yes No

SEAT BASE

Yes No

IS SKANDIA FABRICATING THE ARMRESTS?

Yes No

IS SKANDIA FABRICATING THE SEAT SHROUDS?

Yes No

IS SKANDIA FABRICATING THE SEAT BASE?

Yes No



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Step 6: Items required to complete fireblocking

Test plan process does not begin until all materials and paperwork have been received. Dress cover material is needed for each fireblock test. In some cases, we may have to perform multiple tests with the same dress cover material.

1. Copies of **INVOICES OR PACKING LISTS** providing traceability for all fabricating components used in production including: dress cover(s), foam(s), glue, thread, fastener, muslin, canvas, batting, and all other materials used in production cushion assembly.
2. Sketch or production drawing of each different cushion assembly.
3. For each different dress cover or cushion buildup:
 - **Leather:** 75 square feet; or 12 pieces cut 32"x32"; or 85 sq. ft. window pane with leather close-out; or 80 sq. ft. fully encapsulated with 2" hook and loop
 - **Fabric:** 40" – 48" 6 yards; 49" – 53" 5 yards; 54" – or more 4 yards. Add ½ yard more of additional fabric for window pane dress cover close-out.
 - **Oil Burn:** All materials for oil burn must pass a vertical burn test. If you are supplying materials for an oil burn test, please provide enough material for the vertical burn test.
4. Extra leather or fabric may be required for composite panel testing.
5. Please Note - Testing combination dress covers as 50/50 is worse case scenario

Additional charges will be assessed for receiving scrap pieces.

IS PADDING OR BATTING/MUSLIN USED ON SEATING SURFACES?

Yes No

IF SO, HOW IS IT HELD IN PLACE?

- Glued
- Placed
- Stitched at Seams
- Quilted to Dress cover

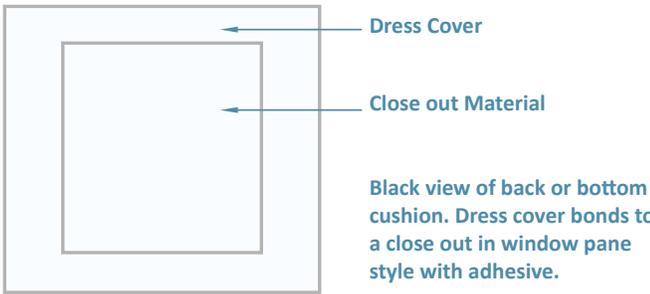
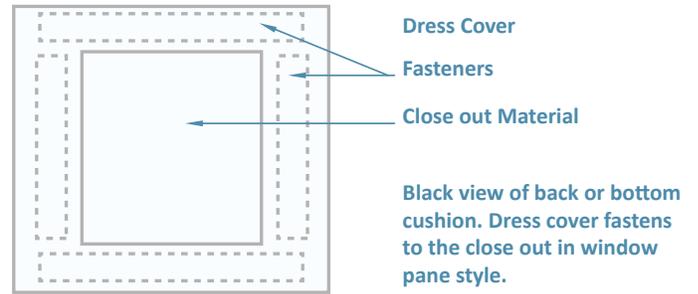
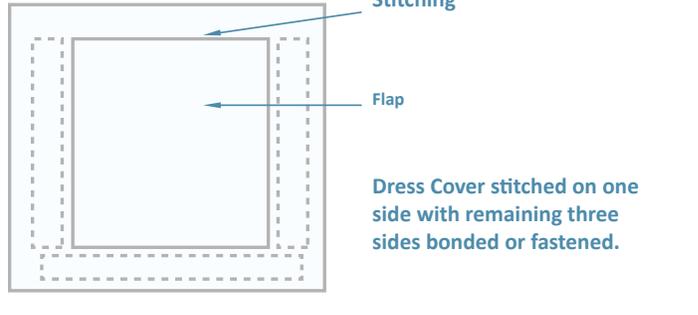
IF FIREBLOCKING MATERIAL IS BEING USED, HOW IS IT USED?

- Glued on seating surface only
- Placed on seating surface only
- Fully Encapsulated with stitched seams
- Fully Encapsulated with glued seams
- Fully Encapsulated and bonded to foam

***You may be required to send a small quantity of your adhesive if it is not stocked at Skandia.
We will make every effort to stock your glue.***

Step 7: Seam Closure

See example images and enter corresponding number on next page.

<p>Glued Window Pane #1</p>  <p>Dress Cover</p> <p>Close out Material</p> <p>Black view of back or bottom cushion. Dress cover bonds to a close out in window pane style with adhesive.</p>	<p>Fastened Window Pane #2</p>  <p>Dress Cover</p> <p>Fasteners</p> <p>Close out Material</p> <p>Black view of back or bottom cushion. Dress cover fastens to the close out in window pane style.</p>
<p>Fastened Side Seam #3 End view</p>  <p>Fasteners</p>	<p>Glued Side Seam #4 End View</p>  <p>Glue Line</p>
<p>Stitched Side Seam #5 End View</p>  <p>Stitching</p>	<p>Flap Closure #6</p>  <p>Stitching</p> <p>Flap</p> <p>Dress Cover stitched on one side with remaining three sides bonded or fastened.</p>



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Step 7: Seam Closure - continued

See example images and enter corresponding number on next page.

SINGLE PASSENGER SEAT SEAM CLOSURE:

BACK Bottom If "window pane", what is the close-out material?

DOUBLE PASSENGER SEAT SEAM CLOSURE:

BACK Bottom If "window pane", what is the close-out material?

DIVAN SEAT SEAM CLOSURE:

BACK Bottom If "window pane", what is the close-out material?

LAV SEAT SEAM CLOSURE:

BACK Bottom If "window pane", what is the close-out material?

JUMP-SEAT SEAM CLOSURE:

BACK Bottom If "window pane", what is the close-out material?

HEADREST SEAM CLOSURE:

If "window pane", what is the close-out material?

LEGREST/FOOTREST SEAM CLOSURE:

If "window pane", what is the close-out material?



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Step 8: Matrix for Production Articles

This section of the form deals with production information. Fill in vendors and part numbers, then select the appropriate box for each specimen with an X.

DRESS COVER

Vendor	Part #						Invoices or packing slips enclosed?
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment	

DRESS COVER

Vendor	Part #						Invoices or packing slips enclosed?
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment	

DRESS COVER

Vendor	Part #						Invoices or packing slips enclosed?
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment	

FOAM

Vendor	Part #						Invoices or packing slips enclosed?
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment	

FOAM

Vendor	Part #						Invoices or packing slips enclosed?
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment	

FOAM

Vendor	Part #						Invoices or packing slips enclosed?
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment	



Seat Fireblocking Checklist

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Step 8: Matrix for Production Articles - continued

This section of the form deals with production information. Fill in vendors and part numbers, then select the appropriate box for each specimen with an X.

SCRIM-BACKED FOAM

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

BATTING

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

MUSLIN

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

FIRE-BLOCKER

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

ADHESIVE

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

FASTENER

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		



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Step 8: Matrix for Production Articles - continued

This section of the form deals with production information. Fill in vendors and part numbers, then select the appropriate box for each specimen with an X.

FASTENER

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

CLOSE-OUT FABRIC

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

ADHESIVE FASTENER

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

OTHER

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

Item Material

OTHER

Vendor		Part #					Invoices or packing slips enclosed?	
Pax Seats	Divan	Jump Seat	Lav Seat	Head Rest	Foot Rest	Flame Treatment		

Item Material

COMMENTS

Step 9: Production Cushion Build-Up

Window Pane is a type of close-out where the dress cover wraps around to the bottom or back of the cushion and a separate piece of material, which may be the same as the dress cover or different, closes out the cushion by sewing, gluing or use of hook and loop fastener. **Complete one sheet for each different cushion build-up.**

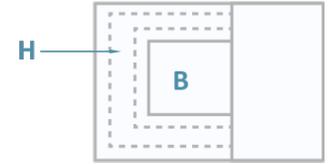
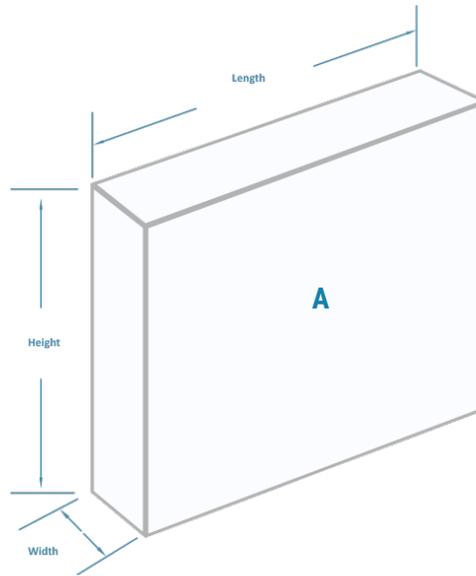
SELECT PRODUCTION CUSHION BUILD-UP TO BE TESTED

- | | |
|---------------|------------------|
| Single Back | Divan Bottom |
| Single Bottom | Headrest |
| Double Back | jump seat/flight |
| Double Bottom | attendant seat |
| Divan Back | Lav |
| | Legrest |

AIRCRAFT S/N

ARE THE DIMENSIONS IN INCHES OR MILLIMETERS?

Inches Millimeters



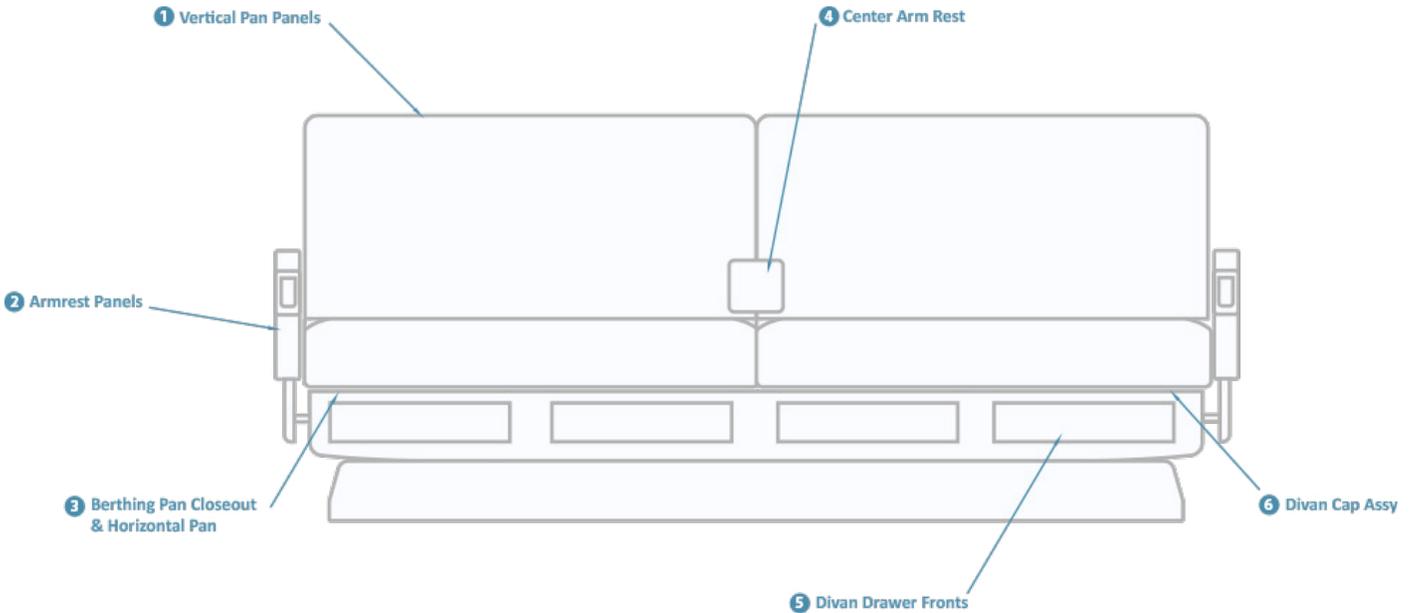
For Window Pane Close-outs

Material	Manufacturer	Part Number	Length	Height	Width
A Dress Cover					
B Close-out Material					
C Foam					
D Foam					
E Foam					
F Foam					
G Foam					
H Hook Fastener					
H Loop Fastener					
F Muslin					
G Nylon Pack Cloth					
H Batting					
I Aluminum/Honeycomb/Other Stiffener					
J					
K					
L					

*J, K, & L lines are for other materials not listed

Step 10: Divan Composite Panel Production Buildup

Please list all materials used in production including substrates and adhesives. The information provided will be used for composite panel testing. Please include part number and thickness of materials.



1: VERTICAL PAN PANELS

2: ARMREST PANELS

3: BERTHING PAN CLOSEOUT & HORIZONTAL PAN

4: CENTER ARM REST

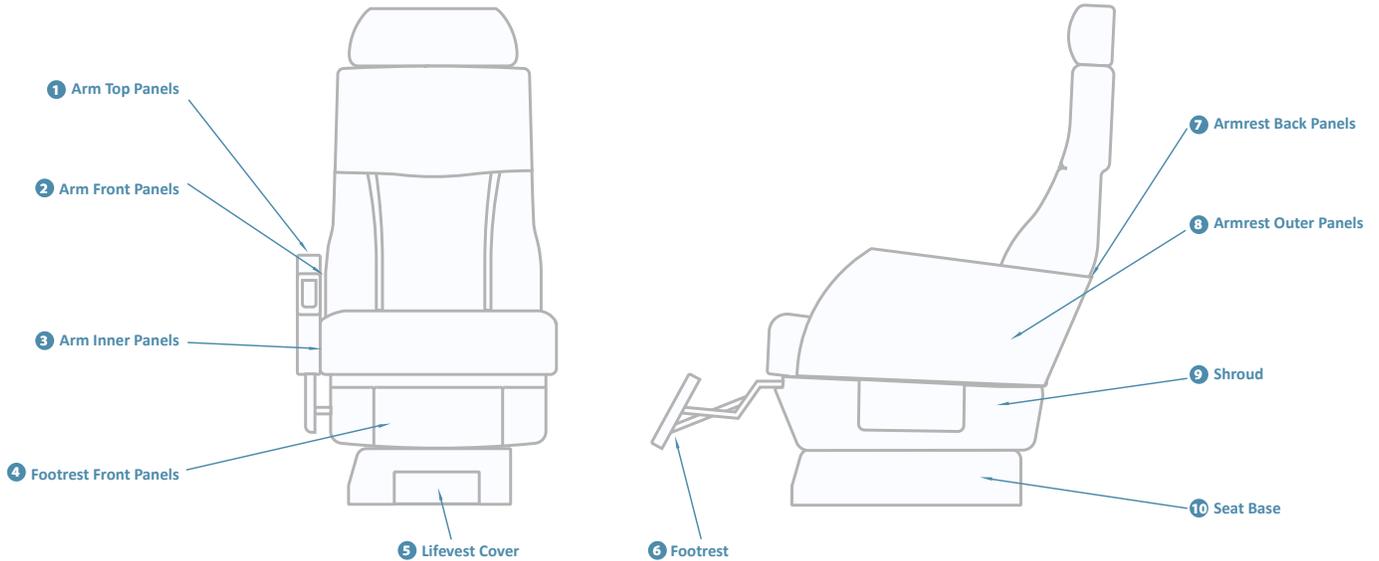
5: DIVAN DRAWER FRONTS

6: DIVAN CAP ASSEMBLY

DRESS COVERING

Step 11: Single Seat Composite Panel Production Buildup

Please list all materials used in production including substrates and adhesives. The information provided will be used for composite panel testing. Please include part numbers and thickness of materials.



1: ARM TOP PANELS

2: ARM FRONT PANELS

3: ARM INNER PANELS

4: FOOTREST FRONT PANEL

5: LIFEVEST COVER

6: FOOTREST



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Step 11: Single Seat Composite Panel Production Buildup - continued

Please list all materials used in production including substrates and adhesives. The information provided will be used for composite panel testing.

7: ARMREST BACK PANELS

8: ARMREST OUTER PANELS

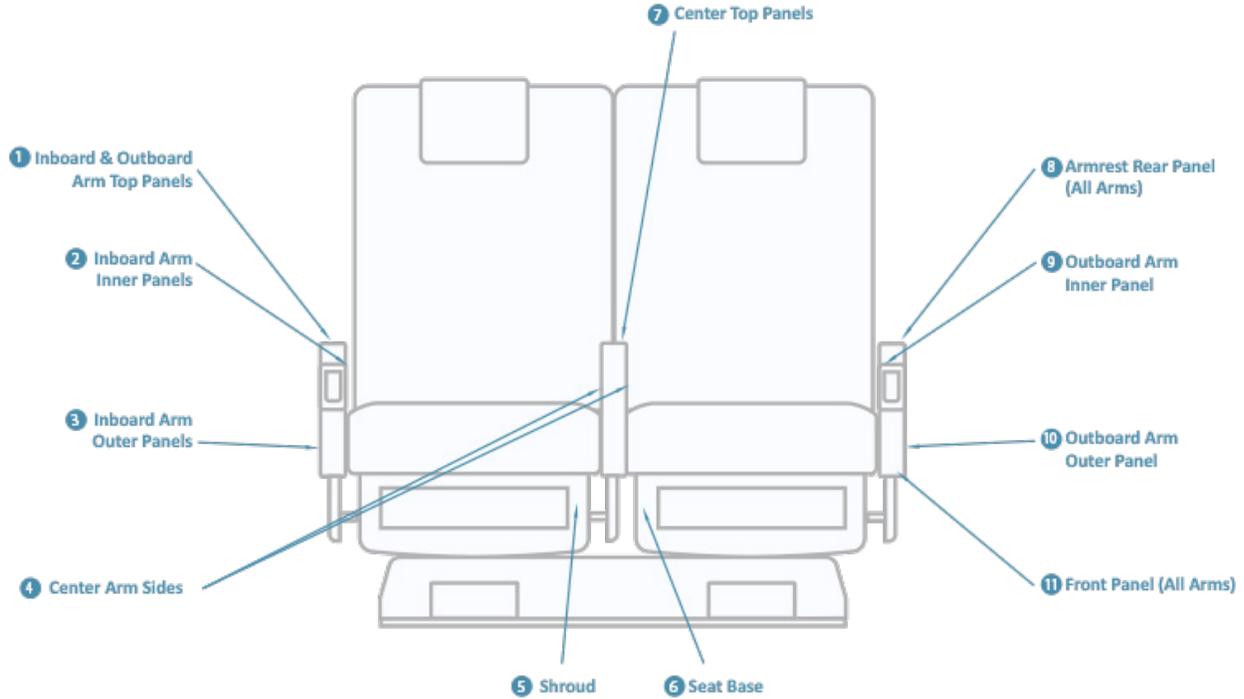
9: SHROUD

10: SEAT BASE

DRESS COVERING

Step 12: Double Seat Composite Panel Production Buildup

Please list all materials used in production including substrates adhesives. The information provided will be used for composite panel testing. Please include part numbers and thickness of materials.



1: INBOARD & OUTBOARD ARM TOP PANELS

2: INBOARD ARM INNER PANELS

3: INBOARD ARM OUTER PANELS

4: CENTER ARM SIDES

5: SHROUD

6: SEAT BASE



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Step 12: Double Seat Composite Panel Production Buildup - continued

Please list all materials used in production including substrates and adhesives. The information provided will be used for composite panel testing.

7: ARMREST BACK PANELS

8: ARMREST REAR PANEL

9: OUTBOARD ARM INNER PANEL

10: OUTBOARD ARM OUTER PANEL

11: FRONT PANEL

DRESS COVERING