ICE PROTECTION - AIRFOIL

1. DESCRIPTION

This section describes the portion of the Ice Protection System pertaining to the airfoils. This includes the wing and horizontal porous panels.

Inboard and outboard porous panels are installed to the leading edge of the wing. Two porous panels are installed on the horizontal stabilizer. Each porous panel consists of a front titanium plate, porous plastic membrane interior, and back titanium plate. The titanium plates are sealed together and the proportioning unit delivers de-icing fluid to a central reservoir between the two plates. The front plate contains small laser drilled holes that allow the fluid to “weep” to the exterior surface.
2. MAINTENANCE PRACTICES

A. Wing Porous Panels (See Figure 30-101)

**WARNING:** Installation of the porous panels requires a test flight performed by a Cirrus Design authorized test pilot. Contact Cirrus Design prior to performing maintenance to schedule test flight.

Porous panels cannot be re-used. If removed, porous panel must be discarded and replaced with new porous panel.

(1) Removal - Wing Porous Panels

(a) Acquire necessary tools, equipment, and supplies.

(b) **Serials 0334 thru 2437:** Remove wing access panels LW6 and LW16 or RW6 and RW16.
(c) **Serials 2438 & subs:** Remove wing access panels LW4 and LW9 or RW4 and RW9.

(d) Place container below coupling to catch fluid drip.

(e) Disconnect nut(s), olive(s), and O-ring(s) securing feed line(s) to porous panel.

(f) Cap feed lines to prevent system contaminates.

(g) Drill out rivets securing porous panel to wing.

(h) Remove porous panels from wing.

1. At inboard porous panel, use putty knife to remove adhesive securing porous panel to wing. Remove and discard porous panel.

2. At outboard porous panel, use putty knife to remove adhesive securing porous panel to wing. Remove and discard porous panel.

(2) Installation - Wing Porous Panels

(a) Acquire necessary tools, equipment, and supplies.

<table>
<thead>
<tr>
<th>Description</th>
<th>P/N or Spec.</th>
<th>Supplier</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drill Bit</td>
<td>#30</td>
<td>Any Source</td>
<td>Rivet removal.</td>
</tr>
<tr>
<td>Putty Knife</td>
<td>2-Inch, Thin</td>
<td>Any Source</td>
<td>Panel removal.</td>
</tr>
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<thead>
<tr>
<th>Description</th>
<th>P/N or Spec.</th>
<th>Supplier</th>
<th>Purpose</th>
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</thead>
<tbody>
<tr>
<td>Low Tack Masking Tape</td>
<td>No. 250</td>
<td>3M</td>
<td>Protect porous panel from contaminates.</td>
</tr>
<tr>
<td>Putty Knife</td>
<td>2-Inch, Thin</td>
<td>Any Source</td>
<td>Adhesive removal.</td>
</tr>
<tr>
<td>Scotch-Brite Scouring Pads</td>
<td>07447</td>
<td>3M</td>
<td>Adhesive removal.</td>
</tr>
<tr>
<td>Sandpaper</td>
<td>120-grit to 400-grit</td>
<td>Any Source</td>
<td>Abrade bonding surface.</td>
</tr>
<tr>
<td>Compressed Air (contaminate free)</td>
<td>-</td>
<td>Any Source</td>
<td>General cleaning.</td>
</tr>
<tr>
<td>Acetone</td>
<td>-</td>
<td>Any Source</td>
<td>Solvent cleaning.</td>
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### Description

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<thead>
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<th>Purpose</th>
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<td>Isopropyl Alcohol</td>
<td>TT-I-735 Grade A or B</td>
<td>Any Source</td>
<td>Solvent cleaning.</td>
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<td>Wax and Grease Remover</td>
<td>DX330</td>
<td>Any Source</td>
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<td>Cotton Cloth (clean and lint free)</td>
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<td>General cleaning.</td>
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<td>Pull Straps</td>
<td>CR3524-4</td>
<td>Any Source</td>
<td>Bonding tool.</td>
</tr>
<tr>
<td>Rivet</td>
<td>CR3524-4</td>
<td>Any Source</td>
<td>Fastener.</td>
</tr>
<tr>
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<td>\textit{Serials 2438 &amp; subs:} WS 30.7 Template</td>
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<td>WS 97.2 Template</td>
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<td>WS 158.625 Template</td>
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<td>WS 186.875 Template</td>
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<td>WS 213.5 Template</td>
<td>T7373</td>
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<tr>
<td>Foam Block</td>
<td>-</td>
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<td>Protect trailing edge.</td>
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</table>

(b) Cover fluid dispensing holes of porous panel with low tack tape and cap inlet valves to prevent contamines.
(c) Remove aileron. (Refer to 57-50)
(d) Remove flap assembly. (Refer to 57-50)
(e) Prepare wing surface.

CAUTION: Exercise caution to prevent cutting into composite laminate.

1. Using putty knife and scouring pads, carefully remove any remaining adhesive from wing.

CAUTION: Exercise caution when sanding composite surfaces to prevent sanding into the laminate. Cover any system that may be contaminated by dust.

2. Lightly sand the bonding area with 120-grit sandpaper.
3. Blow surface clean with compressed air.

Note: Wipe surface in one direction only to prevent smearing contaminates. For maximum results, wipe dry with clean white cloths in one direction only, while the surface is still wet.

5. Using isopropyl alcohol, solvent clean prepared surface.

(f) Ensure outboard porous panel is the correct length.
1. Align inboard end of panel with inboard edge of wing cuff.
2. Align outboard end of panel with end of wing cuff offset.
3. If necessary, trim outboard end of panel to fit.

(g) Ensure inboard porous panel is the correct length.
1. Align outboard end of panel with inboard edge of wing cuff.
2. Align inboard end of panel with inboard wing offset.
3. If necessary, trim inboard end of panel to fit.

(h) Using templates, verify aerodynamic contour of leading edges.
(i) While holding porous panel in place, mask around perimeter of panel with tape.
(j) Attach inboard porous panel.

Note: Do not apply adhesion promoter to composite bonding surface.

1. Serials 2438 & subs: Apply adhesion promoter to porous panel and allow to dry 30 - 60 minutes.

Note: Mix adhesive thoroughly. Avoid entrapping air during the mixing process. No color swirls or variation is allowed.

2. Apply 3/16 inch diameter bead of adhesive approximately 1/4 inch from edges of porous panel bonding area, top and bottom.
3. Connect nut(s), olive(s), and new O-ring(s) securing feed line(s) to porous panel by hand tightening nut and then turning additional 180° with wrench.
4. Position porous panel to wing and press into place.
5. Fill gap beneath cuff end of porous panel with adhesive.

Note: Place shop towel between pull strap buckle and wing to protect wing surface. Place foam block between strap and trailing edge of wing to prevent damage to trailing edge.
6  Serials 0334 thru 2437: Strap porous panel into place with four evenly spaced pull straps.
7  Serials 2438 & subs: Strap porous panel into place with five evenly spaced pull straps.
8  Skim excess adhesive away from edge of porous panel and remove tape.
(k)  Attach outboard porous panel.

Note: Do not apply adhesion promoter to composite bonding surface.

1  Serials 2438 & subs: Apply adhesion promoter to porous panel and allow to dry 30 - 60 minutes.

Note: Mix adhesive thoroughly. Avoid entrapping air during the mixing process. No color swirls or variation is allowed.

2  Apply 3/16 inch diameter bead of adhesive approximately 1/4 inch from edges of porous panel bonding area, top and bottom.

3  Connect nut(s), olive(s), and new O-ring(s) securing feed line(s) to porous panel by hand tightening nut and then turning additional 180° with wrench.

4  Position porous panel to wing and press into place.

Note: Place shop towel between pull strap buckle and wing to protect wing surface. Place foam block between strap and trailing edge of wing to prevent damage to trailing edge.

5  Serials 0334 thru 2437: Strap porous panel into place with three evenly spaced pull straps.
6  Serials 2438 & subs: Strap porous panel into place with four evenly spaced pull straps.
7  Skim excess adhesive away from edge of porous panel and remove tape.

Note: Certain solvents may damage the panel membrane. Use only isopropyl alcohol, ethyl alcohol, or industrial methylated spirit.

(l)  Solvent clean to remove any excess adhesive from wing surface. (Refer to 20-30)
(m)  Allow adhesive to cure for 24 hours.

Note: Ensure rivet holes are clean and free of debris.

(n)  Transfer drill rivet holes and install rivets securing porous panels to wing assembly.

Note: Use the porous panel finishing procedures to seal gap between trailing edge of porous panel and airframe. Finishing Method #3 is preferred for new porous panel installations. If replacing porous panel on only one side of airplane, Finishing Method #1 or #2 may be used to maintain a uniform appearance between RH and LH porous panels.

(o)  Perform Procedure - Porous Panel Finishing. (Refer to 30-10)
(p)  Fill interface at both ends of inboard panel with adhesive and allow to cure for 24 hours.
(q)  Fill interface at outboard end of outboard panel with adhesive and allow to cure for 24 hours.
(r)  Using templates, verify completed joint meets aerodynamic contour requirements.
(s)  Serials 0334 thru 2437: Install wing access panels LW6 and LW16 or RW6 and RW16.
(t) **Serials 2438 & subs:** Install wing access panels LW4 and LW9 or RW4 and RW9.
(u) Install flap assembly.
(v) Install aileron. *(Refer to 57-50)*
(w) Install stall strips. *(Refer to 57-20)*
(x) Perform Operational Check - Wing Porous Panels. *(Refer to 30-10)*

(3) **Operational Check - Wing Porous Panels**
(a) Visually inspect porous panel for delamination, distortion, and security.
(b) Set battery master switch to the ON position.
(c) Set ice protection switch to the MAXIMUM position.
(d) Verify evidence of de-icing fluid from porous panels.
(e) Set ice protection switch to the OFF position.
(f) Set battery master switch to the OFF position.
B. Horizontal Stabilizer Porous Panel (See Figure 30-101)

**WARNING:** Installation of the porous panels require a test flight performed by a Cirrus Design authorized test pilot. Contact Cirrus Design prior to performing maintenance to schedule test flight.

Porous panels cannot be re-used. If removed, porous panel must be discarded and replaced with new porous panel.

(1) Removal - Horizontal Stabilizer Porous Panel
   (a) Acquire necessary tools, equipment, and supplies.

<table>
<thead>
<tr>
<th>Description</th>
<th>P/N or Spec.</th>
<th>Supplier</th>
<th>Purpose</th>
</tr>
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<tbody>
<tr>
<td>Drill Bit</td>
<td>#30</td>
<td>Any Source</td>
<td>Rivet removal.</td>
</tr>
<tr>
<td>Putty Knife</td>
<td>2-Inch, Thin</td>
<td>Any Source</td>
<td>Panel removal.</td>
</tr>
</tbody>
</table>

(b) Remove horizontal stabilizer access panel.
(c) Place container below coupling to catch fluid drip.
(d) Disconnect nuts, olives, and O-rings securing feed line to porous panel.
(e) Cap feed lines to prevent system contaminates.
(f) Drill out rivets securing porous panel to horizontal stabilizer.
(g) Use putty knife to remove adhesive securing porous panel to horizontal stabilizer. Remove and discard porous panel.

(2) Installation - Horizontal Stabilizer Porous Panel
   (a) Acquire necessary tools, equipment, and supplies.

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Low Tack Masking Tape</td>
<td>No. 250</td>
<td>3M</td>
<td>Protect porous panel from contaminates.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>St. Paul, MN 55144</td>
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<td></td>
<td>651-737-6501</td>
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<tr>
<td>Putty Knife</td>
<td>2-Inch, Thin</td>
<td>Any Source</td>
<td>Adhesive removal.</td>
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<td>Scotch-Brite Scouring Pads</td>
<td>07447</td>
<td>3M</td>
<td>Adhesive removal.</td>
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<td>St. Paul, MN 55144</td>
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<td>651-737-6501</td>
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<tr>
<td>Sandpaper</td>
<td>120-grit to 400-grit</td>
<td>Any Source</td>
<td>Abrade bonding surface.</td>
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<td>Compressed Air (contaminate free)</td>
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<td>Any Source</td>
<td>General cleaning.</td>
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<tr>
<td>Acetone</td>
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<td>Any Source</td>
<td>Solvent cleaning.</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>TT-I-735 Grade A or B</td>
<td>Any Source</td>
<td>Solvent cleaning.</td>
</tr>
<tr>
<td>Cotton Cloth (clean and lint free)</td>
<td>-</td>
<td>Any Source</td>
<td>General cleaning.</td>
</tr>
</tbody>
</table>
(b) Cover fluid dispensing holes of porous panel with low tack tape and cap inlet valves to prevent contaminates.

(c) Remove elevator. (Refer to 55-20)

(d) Prepare bonding surface of horizontal stabilizer.

**CAUTION:** Exercise caution to prevent cutting into laminate.

1. Using putty knife and scouring pads, carefully remove any removing adhesive from horizontal stabilizer.

**CAUTION:** Exercise caution when sanding composite surfaces to prevent sanding into the laminate. Cover any system that may be contaminated by dust.

2. Lightly sand the bonding area with 120-grit sandpaper.
3 Blow surface clean with compressed air.

**Note:** Wipe surface in one direction only to prevent smearing contaminates. For maximum results, wipe dry with clean white cloths in one direction only, while the surface is still wet.

4 Using acetone, solvent clean prepared surface.

5 Using isopropyl alcohol, solvent clean prepared surface.

(e) Ensure porous panel is the correct length.
1 Align outboard end of panel with outboard end of horizontal stabilizer.
2 Align inboard end of panel with inboard offset.
3 If necessary, trim inboard end of panel to fit.

(f) Using templates, verify aerodynamic contour of leading edge.

(g) While holding porous panel in place, mask around perimeter of panel with tape.

(h) Attach porous panel.

**Note:** Do not apply adhesion promoter to composite bonding surface.

1 **Serials 2438 & subs:** Apply adhesion promoter to porous panel and allow to dry 30 - 60 minutes.

**Note:** Mix adhesive thoroughly. Avoid entrapping air during the mixing process. No color swirls or variation is allowed.

2 Apply 3/16 inch diameter bead of adhesive approximately 1/4 inch from edges of porous panel bonding area, top and bottom.

3 Connect nut, olive, and new O-ring securing feed lines to porous panel by hand tightening the nut and then turning additional 180° with wrench.

4 Position porous panel to horizontal stabilizer and press into place.

5 Fill gap beneath outboard end of porous panel with adhesive.

**Note:** Place shop towel between pull strap buckle and horizontal to protect horizontal surface. Place foam block between strap and trailing edge of horizontal to prevent damage to trailing edge.

6 Strap porous panel into place with three evenly spaced pull straps.

7 Skim excess adhesive away from edge of porous panel and remove tape.

**CAUTION:** Certain solvents may damage the panel membrane. Use only isopropyl alcohol, ethyl alcohol, or industrial methylated spirit.

(i) Solvent clean to remove any excess adhesive from surface of horizontal stabilizer.

(j) Allow adhesive to cure for 24 hours.

**Note:** Ensure rivet holes are clean and free of debris.

(k) Transfer drill rivet holes and install rivets securing porous panel to horizontal stabilizer.

**Note:** Use the porous panel finishing procedures to seal gap between trailing edge of porous panel and airframe. Finishing Method #3 is preferred for new porous panel installations. If replacing porous panel on only one side of airplane, Finishing Method #1 or #2 may be used to maintain a uniform appearance between RH and LH porous panels.
(l) Perform Procedure - Porous Panel Finishing. (Refer to 30-10)
(m) Fill interface at inboard end of porous panel with adhesive and allow to cure for 24 hours.
(n) Using templates, verify completed joint meets aerodynamic contour requirements.
(o) Install horizontal stabilizer access panel.
(p) Install elevator. (Refer to 55-20)
(q) Perform Operational Check - Horizontal Stabilizer Porous Panel. (Refer to 30-10)

(3) Operational Check - Horizontal Stabilizer Porous Panels
(a) Visually inspect porous panel for delamination, distortion, and security.
(b) Set battery master switch to the ON position.
(c) Set ice protection switch to the MAXIMUM position.
(d) Verify evidence of de-icing fluid from porous panels.
(e) Set ice protection switch to the OFF position.
(f) Set battery master switch to the OFF position.
C. Porous Panel Finishing (See Figure 30-101)

Use the porous panel finishing procedures to seal gap between trailing edge of porous panel and airframe. Finishing Method #3 is preferred for new porous panel installations. If replacing porous panel on only one side of airplane, Finishing Method #1 or #2 may be used to maintain a uniform appearance between RH and LH porous panels.

(1) Procedure - Porous Panel Finishing Method #1
   (a) Acquire necessary tools, equipment, and supplies.

<table>
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<tr>
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<th>P/N or Spec.</th>
<th>Supplier</th>
<th>Purpose</th>
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<tbody>
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<td>Sealant Per MIL-S-8802F</td>
<td>AC-240B1/2 Quick Cure</td>
<td>Dynamold Aerospace Products Fort Worth, TX 76107 817-335-0862</td>
<td>Panel adhesive.</td>
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</table>

   **Note:** When applying surface filler, leave a 0.13 +/- 0.06 inch (3.30 +/- 1.5 mm) gap around porous panel. The gap will be filled with adhesive after topcoat has fully cured.

   (b) Fill area behind trailing edge of porous panel with surface filler. *(Refer to 51-20)*
   (c) Prime and paint prepared surface. Allow to fully cure. *(Refer to 51-20)*
   (d) Fill in gap around porous panel with adhesive and allow to cure for 24 hours.

(2) Procedure - Porous Panel Finishing Method #2
   (a) Acquire necessary tools, equipment, and supplies.

<table>
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<th>P/N or Spec.</th>
<th>Supplier</th>
<th>Purpose</th>
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<td>Moisture Resistant Filler</td>
<td>#77</td>
<td>AdTech Charlotte, MI 48813 800-255-9934</td>
<td>Bodywork finishing.</td>
</tr>
</tbody>
</table>

   (b) Fill area behind trailing edge of porous panel with moisture resistant filler. *(Refer to 51-20)*
   (c) Prime and paint prepared surface. Allow to fully cure. *(Refer to 51-20)*

(3) Procedure - Porous Panel Finishing Method #3
   (a) Acquire necessary tools, equipment, and supplies.

<table>
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<th>P/N or Spec.</th>
<th>Supplier</th>
<th>Purpose</th>
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<td>High-Heat Resistant Filler</td>
<td>#17</td>
<td>AdTech Charlotte, MI 48813 800-255-9934</td>
<td>Bodywork finishing.</td>
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</tbody>
</table>
(b) Fill area behind trailing edge of porous panel with high-heat resistant filler. Allow to fully cure. *(Refer to 51-20)*

(c) Mask wing area aft of porous panel so 0.25 +/- 0.06 inch (6.35 +/- 1.5 mm) of high-heat resistant filler will be visible around trailing edge of porous panel after applying primer and paint.

(d) Prime and paint prepared surface. Allow to fully cure. *(Refer to 51-20)*

**Note:** Edge sealant application is optional.

(e) Apply optional edge sealant as follows:

1. Mask edge sealer application area from trailing edge of porous panel to 0.01 - 0.03 inch (0.25 - 0.76 mm) onto painted surface.
2. Do not allow solvent to contact porous panel.
3. Solvent clean edge sealer application area with DX solvent. *(Refer to 20-30)*
4. Using ultra-fine scouring pad, lightly abrade surface of edge sealer application area.
5. Solvent clean edge sealer application area with isopropyl alcohol. *(Refer to 20-30)*
6. Mix edge sealer according to manufacturer's instructions.
7. Apply a thin coat of edge sealer to abraded surface until evenly covered.
8. Remove masking tape before edge sealant fully cures to allow sealant to flow slightly.
9. Cure edge sealant.

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<th>Purpose</th>
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<td>Edge Sealant</td>
<td>CA8000/ B900B</td>
<td>PRC-Desoto Pittsburgh, PA 15272 412-434-3131</td>
<td>Bodywork finishing.</td>
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</table>
Figure 30-101
Porous Panel Installation (Sheet 1 of 3)

LEGEND
1. Porous Panel
2. Adhesive

NOTE
⚠️ Bond must meet requirements for at least 90% of the total bond length.
No one area that does not meet requirements shall exceed 3 inches in length.
FINISHING METHOD #1:

NOTE

⚠️ When applying surface filler, primer, and topcoat, leave a gap around trailing edge of porous panel. After topcoat has fully cured, fill gap with adhesive.

FINISHING METHOD #2:

NOTE

⚠️ Fill gap around trailing edge of porous panel with moisture resistant filler and cover with primer and topcoat.

LEGEND

1. Porous Panel
2. Adhesive
3. Surface Filler, Primer, and Topcoat
4. Moisture Resistant Filler
5. Primer and Topcoat

Figure 30-101
Porous Panel Installation (Sheet 2 of 3)
LEADING EDGE SKIN (REF)

Fill gap around trailing edge of porous panel with high-heat resistant filler.

Apply primer and topcoat so that 0.25 +/- 0.06 inch (6.35 +/- 1.5mm) of high-heat resistant filler remains visible around trailing edge of porous panel.

Optional:
Apply edge sealant to exposed high-heat resistant filler. Sealant should extend from trailing edge of porous panel to 0.01 - 0.03 inch (0.25 - 0.76mm) onto painted surface.

FINISHING METHOD #3:

LEGEND
1. Porous Panel
5. Primer and Topcoat
6. High-Heat Resistant Filler

Figure 30-101
Porous Panel Installation (Sheet 3 of 3)