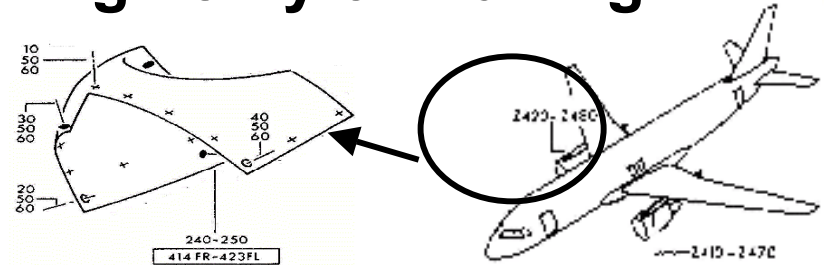


A320F Engine Pylon Fairing



Engine Pylon Fairing (414FR/423FL)

Pylon Fairings are contoured secondary structures; sandwich panel with a monolithic panel edge section, enclosing the engine attachment pylon.

- OEM supplied composite materials in Pylon Fairings are:
 - 3/16", 3.0lb hexagonal Nomex honeycomb core (HRH 10-3/16-3.0)
 - 285 style, 250°F/121.11°C cure, aramid fiber prepreg, 50-60% resin
 - 250°F/121.11°C cure, carbon fabric prepreg

Acetek's Repair Service

Typical Damage:

- Leading Edge Erosion
- Impact: delaminations, cracks, holes
- Moisture Ingress

Inspection Techniques:

- Tap Test and Visual – Standard
- Thermal Graphic
- Through Transmission Ultrasonic (TTU)

Repairable Scenario:

- Assess damage repair requirements vs BER Limits.
- Maximum damage size is 1.968 inches² (SRM 54-50).
- As long as the damage is within the SRM repairable limits, a wet lay-up repair is allowed.

Repair Materials:

- Laminating resin (Araldite LY/HY50502)
- Dry carbon fabric (type G803 or G806)

Pylon Fairing Repair Process

Inspect

Remove Paint

Prepare Repair Disposition (Eng)

Remove Damaged Materials

Clean & Dry Structure

Inspect - In Process

Taper/Step-Sand Damage Zone

Skin Plies

Fabricate Core Plug

Install Core Plug - Cure Cycle

Inspect - In Process

Close Out Core - Cure Cycle

Inspect - In Process

Prepare Skin Ply Repair Materials Kit

Lay-up Replacement Skin Plies - Cure Cycle

Sand and Seal Repair Zone(s)

Review Structure Configuration

Inspect - Final