



# Steel Reinforced Case Study

## Challenge

A Southern California Aerospace Manufacturer required a shipping container for two 26' delicate wings. The length of the assembled wing exceeded the tensile allowances of a wood base, and an alternate reinforcement was needed to prevent damage caused by bending or bowing from rough handling. Also the end destination had limited lifting capability and therefore required that the container be opened and unloaded by hand.

## Solution

Valley Box's engineers worked out a solution that involved sectioning the container's lid into thirds, and allowing for drop-down end and side panels. Custom hinges were fabricated to handle the heavy lid sections. This allowed for more manageable access by hand. Steel was integrated into the internal structure to add shear support to this unique spanned-open-lid design. Custom saddles and tie downs were installed to support the fragile wing during transit.



Steel Reinforced Lid



Ergonomic Lid Design

## Testimonial

*"The design and construction of the container give me confidence that the pods will be well protected during shipping."*



*Project Engineer  
Aircraft Systems Manufacturer*



Unusual Length Requirements

## Benefits

- Easy Removal of Wings by end destination personnel
- Steel allowed for length requirements
- Damage Free Wings
- Less expensive than Molded Case