

Reference case

Landing Gear Systems packaging

The Customer Case

The customer is a world leader in the design, development and supply of high value aircraft landing gear systems. The Canadian based operation is a supplier to the Airbus group of commercial aircraft and ship systems to European destinations from Canada.

The packaging system employed by the customer, prior to Nefab's involvement, utilised double walls of ¾" plywood, had load support dunnage attached to the underside of the crate lid and was nailed together in the traditional fashion. The extremely heavy package did not prevent damage from occurring in transit, resulting in very high transportation costs and increased system handling costs at both ends of the journey. Nefab was provided with the opportunity to submit new designs that would result in damage-free transportation, with lower overall transportation and handling costs.

The Nefab Solution

Nefab's in-house product engineering design team, thoroughly reviewed the shipping systems being used. Special focus was placed on their weight distribution and load characteristics during transportation. The analysis concluded that the walls and lid could be constructed from the much lighter 3/8" thick Oriented Strand Board (OSB). This was due to the correct positioning of the newly designed support dunnage, which tied the landing gear system to the base of the package and not the lid or sides. The Nefab solution also featured a "spring clip" closing mechanism in place of the usual nails.

The Customer Benefits

The Nefab solutions have provided the customer with packaging that:

- Have eliminated shipping damage
- Have lowered shipping costs by virtue of the lighter weight
- Removed the need for nails or nail guns, improving ergonomics & safety
- Is easier to load and handle internally
- Can be opened and re-closed enroute for inspections and value add operations



Nails are not longer needed for closing the box



Shipping damages are now eliminated

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