

Military shelters

Royal Australian Air Force



CHALLENGE

The Royal Australian Air Force (RAAF) issued a tender for military shelters which are **easy to move** for military aircraft maintenance and logistics operations. It had to be possible to **easily and quickly assemble and disassemble** them, and they had to be functional in **extreme weather conditions**. The longest component could not be longer than 230 cm in order to allow **transportation in 8 feet containers**. The military shelters had to **meet the Australian standards** for wind speed and snow loads.



SOLUTION

Veldeman won the tender and developed the **DAMALSH** (Deployable Aircraft Maintenance and Logistics Shelter), fully customized for the RAAF. This **prefabricated** military shelter has a design with mainly pin-connections and **can easily be built up** from ground level **with manpower only**. A forklift, cherry picker or other site equipment are not required when installing the military shelters. For ease of installation, customized **special assembly tools** were also developed. Two types of DAMALSH were developed: with a **flat gable** or with a **'big mouth' gate**. In the meantime about 15 DAMALSH shelters are used by the RAAF. The shelters have been **successfully deployed overseas** for military exercises and air shows in Australia.

Rapid erection sun shelters Indian Air Force

The **avionics (electronics)** aboard the SU-30 fighter aircraft of the Indian Air Force sometimes became **overheated** if the airframes remained unprotected and without air conditioning **in the sun** for long periods. This caused serious security risks for both the airframes and pilots. A **military shelter solution** became a necessity.

CHALLENGE

Veldeman designed and supplied 27 **RESS structures** (Rapid Erection Sun Shelters) according to the **specifications of the Indian Air Force**. This type of military hangar or shelter consists of a **roof structure** with open walls to allow **quick entry and exit** of the aircraft. Thanks to the **modular and lightweight design** the military shelters also meet the requirements of **rapid erection**.

SOLUTION

