



Quieter patrol on NSW Police Boats

BACKGROUND

Stebercraft are regarded as the premium manufacturer of commercial fibreglass vessels and composite components. Steber International manufacture on behalf of the NSW Water Police and have built over 50 vessels for State and Federal governments including Defence, State and Federal Police, Customs and Fisheries. All marine vessels require effective soundproofing solutions as they tend to emit high levels of noise from engine room enclosures, generators, and floors, creating a loud atmosphere for those onboard. Pyrotek have been a supplier of Stebercraft for many years, providing them with quality insulation products installed in engine rooms and cabin areas. Pyrotek were asked to design a noise control system needed for a Australian Police Boat. The vessel had to meet noise requirements and regulations for use on NSW waters. The acoustic and thermal solution also required a product to meet stringent fire safety requirements.



Tan coloured insulation installed on the walls surrounding the vessel

DEVELOPING A SOLUTION

The Pyrotek products installed in this vessel included Sorberbarrier, Sorberfoam and Decidamp SP150. Sorberfoam was selected as it is formulated to reduce reverberation noise in automotive markets and specifically targets the echo noise developed in the marine vessel engine rooms. The unique composite Sorberbarrier was used as both a mass barrier and a high property absorber in the interior of the Police boat. Using this product, reduced and eliminated the noise that was impacting the marine vessel. Decidamp SP150 was also recommended as a vibration damping solution to apply to the walls of the water vessel. Decidamp SP150 eliminates the opportunity for the vibration radiating as airborne sound. The soundproofing materials were strategically placed to ensure minimal noise is transmitted throughout the carrier.



Cabin area interior fitted with Pyrotek products

RESULTS

After installation Alan Steber of Stebercraft International noted the client was very impressed with the finish and easy-to-clean surface. The sound insulation qualities were excellent and met the required dB ratings for the customer. Stebercraft were pleased they were able to deliver a quality product to their client with the help of Pyrotek's noise solutions. Pyrotek's products meet the strict installation fire and noise insulation requirements for marine vessels.



Soundproofed Stebercraft police vessel

