

Rheinmetall Protection Systems GmbH
Pützchens Chaussee 58a
53227 Bonn, Germany
info-rps@rheinmetall.com
www.rheinmetall.com

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NAVAL **PROTECTION**

HIGH-TECH COMPOSITES AND CERAMICS

ADVANCED SURVIVABILITY FOR THE CREW AND THE VESSEL

TAKING RESPONSIBILITY IN A CHANGING WORLD



BALLISTIC PROTECTION – FOR THE INTEGRITY OF THE CREW AND THE VESSEL

The high complexity and density of vessels make them highly vulnerable by military and pirate attacks. The threat spectrum ranges from small arms fire up to RPGs and anti-ship missiles. Rheinmetall provides ballistic protection solutions to marine platforms ranging from small assault boats up to large vessels operated by many nations worldwide. The protection solutions focus on the most important ship areas such as wheelhouse, combat room, ammunition storage rooms and gunner stations.



Frigate Class F125



Corvette Class 130



Kormoran OPV

INTEGRATION OF PROTECTION KITS

Various options for the application of the protection kits are in use. For fixed mounting inside and outside the vessel structure Rheinmetall has designed a standardized fixation

system. In open areas, a quick release mounting system can be used allowing the crew to easily install and remove the protection panels.



HIGH DURABILITY WITH PROTECTIVE COATING

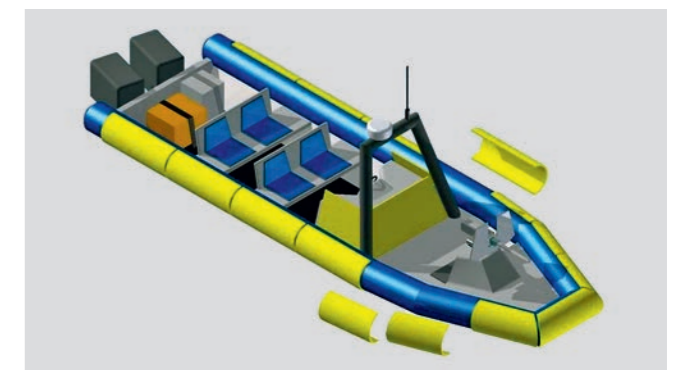
Rheinmetall has developed a special coating, which is exceptionally durable under the harsh environment of

seawater and salt spray. All edges of the panels are protected against mechanical damage.



PROTECTION OF ASSAULT BOATS

For assault boats, a low weight protection against small arms fire is essential to keep up their mobility while protecting the crew against small arms fire. The protection kit can be adapted to the shape of the hull. Even shaped protection elements can be designed (e.g. for a RHIB).



INTEGRATION OF WINDOWS

Rheinmetall is extensive experience in the integration of windows on wheelhouses and similar areas. All windows are mounted in frames with shock absorbers and sealing. The frames are made from ballistic steel to cover ballistic gaps between the windowpanes and the opaque armour.

The windowpanes can be supplied with heating, protective coating against UV radiation and laser beams as well as with EMI shielding. The inside of the windowpanes can be written on with special pens.

