



Safer shipping with Roxtec

REPORT FROM GDYNIA SHIPYARD IN POLAND

In Poland, car carriers for 6,700 cars are built with amazing speed and skill. All parties involved – the ship owner, Ray Shipping, as well as the designers and electrical installers at Gdynia Shipyard – are satisfied with

the Roxtec sealing system. Quick and easy installations made today, protect the investment and the cargo in the long run. The flexibility of the system also facilitates maintenance and upgrading for new regulations.

“The possibility of opening up the transit in the future to add cables is the very reason we recommend Roxtec seals,” says Captain Amos Cohen, owner’s representative and technical specialist at Ray Shipping.



Cables are routed through Roxtec transits – from the engine control room all the way up to the bridge.



Ship owner's cable sealing choice

At Gdynia Shipyard, thousands of employees and subcontractors specialize in the production of advanced car carriers. Twice a year, the shipyard delivers a huge new ship to Ray Shipping. For safety reasons, all crucial cable penetrations must be sealed by Roxtec. Roxtec is certified by all major authorities, and special safety tests have also been performed at the shipyard. Roxtec seals are used in the heart and brain of the ship: the engine control room, the main power switch-room and the bridge.

Future capacity included

Besides the need for water-tightness and fire protection when carrying brand new cars, there is a practical reason for the ship owner to choose Roxtec. Ray Shipping invests in new ships with the intention of operating them for a long time. Thanks to the optional 30% built-in spare capacity, Roxtec makes it easier to upgrade electrical installations.

"In our projects in Vietnam, we have specified Roxtec. We also recommended that Gdynia Shipyard use Roxtec instead of their old system with cement," says Amos Cohen.

"We recommend Roxtec instead of cement systems"



Future capacity included.

Installers want Roxtec

At first, the installers in Gdynia were not completely convinced. But when they tried the Roxtec sealing system, which is adaptable for cables and pipes of different materials and dimensions, they were happy about the quick and clean installation. Especially compared to the dirty and time-consuming preparation of compounds! "Roxtec is a good element," says Jerzy Miotke, manager of the electrical department at Gdynia Shipyards. "We save a lot of installation time, at least 30 minutes per opening!"

Not only is the actual installation time cut, but also the need for preparation, materials and space. While Roxtec is delivered as a kit for instant installation, it takes a lot of work to complete a compound sealing. And when the compound is finally firm, you need to drill a new hole if you want to add cables. That means you have to count another



Henryk Flemming, salesman at Roxtec distributor Pionet, and Andrzej Kanikula of the yard take a look at a Roxtec module.



Above: Neatly organized cables in a cabinet on the bridge.



Above right: The ability to add cables means saving money, now and in the future.

day to do the installation work. For the installers, the ability to open up and reseal the Roxtec transits, easily and quickly whenever they want, is priceless.

"We have enjoyed this feature many times during construction," confirms Jerzy Miotke.

"We save a lot of installation time, at least 30 minutes per opening!"

Cost-effective design

The designers saw further possibilities to save space and money while increasing safety. They designed with Roxtec in mind in all areas where cables might be routed later on. To simplify planning, they used RTM Software. Today, Roxtec is the standard solution at the yard. "It allows savings in manpower,

which is crucial, as it becomes expensive. There is also a neat look to it, which is a great contributor," says Amos Cohen.

Adaptability – the key factor

The car carriers from Gdynia are 200 meters long and have 12 decks, offering a total of 55,000 square meters. Their unique feature is the ability to lift and lower the decks to adjust them to the sizes of the cars onboard. In a similar way, the Roxtec sealing modules are equipped with removable layers that make them adaptable to cables of different sizes.

WHY USE ROXTEC?

- Certified protection
- Area efficiency
- Quick installation
- Easy maintenance
- Upgrading capacity

Gdynia Shipyard (Stocznia Gdynia S.A.)





Facts

Project type	Car carrier
Customers	Ray Shipping (owner) Gdynia Shipyard (design, construction, electrical installations)
Requirements	Fire-proof according to A-0 to A-60 marine fire rating Watertight according to marine classification Quick, clean and safe installation Easy to inspect tightness Possibility of adding extra cables
Roxtec products	Roxtec S frames in several different sizes Roxtec R frames in sizes 125 and 200 Roxtec adaptable sealing modules Roxtec Wedge kits RTM Software (Roxtec Transit Manager)
Reasons for choosing Roxtec	High safety demands Multidiameter™ – adaptability to different cable sizes through modules with removable layers Cost-effective installation Future cable routing capacity Local service and support on site

Roxtec Marine references
Benetti, Bergen Group, Daewoo Heavy Industries, Dalian Shipyard, Fincantieri, Hyundai Heavy Industries, Jinling Shipyard, Meyer Werft, Samsung Heavy Industries, Perini Navi, STX Europe, STX OSV, UK Navy, US Navy, Italian Navy, Chinese Navy, Danish Navy.



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