

New Fast-Fit Bulkhead Cable and Pipe Penetration Seal for Ships and Offshore

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Shipbuilders and repairers face pressure from owners for rapid completion. Responding to this need Roxtec, pioneers of multi-diameter cable and pipe penetration sealing, have launched a new bulkhead and deck seal. RSX and RX kits can be installed in minutes, they require no hot work and speed fitting to cut man-hours and cost.

Installation takes around ten minutes compared with several hours for a conventional multi-stage welding process. In a major improvement over bolted methods, the new system needs only one large diameter hole in the bulkhead - saving time but also safeguarding structural integrity by avoiding potential points for crack proliferation. Even better, the entire installation process can take place from one side of the bulkhead. This is a key benefit where services are congested and access to the back face of the bulkhead is restricted. Installing RSX and RX kits is usually a one-man job.

The Roxtec system is a cold installation process. Issues arising from hot work such as health and safety, preparation, masking, ventilation, cleaning and refinishing are eliminated. The Roxtec seals fit directly into the prepared opening. A sealing ring in the outer sleeve expands under compression to grip the bulkhead or deck and seals the frame to the aperture. The inner core is made up from concentric layers that are easy to peel away to fit cables or pipes of varying size. When this is inserted and subject to compression, it expands to grip both the cable or pipe and housing to provide a perfect seal.

Fittings are available for both single and multiple cable or pipe penetrations. They can be installed in barriers from three to ten millimetres thick, including A60 barriers. Systems are type tested to 4-bar pressure for both water and gas. Certificates of conformance from DNV are available from Roxtec Ltd.

RSX and RX seals are part of a complete family of long life and maintenance free marine and offshore cable and pipe penetration seals available from Roxtec. The company will advise on the most suitable seal for each application and provide full technical support.

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High/low resolution images are on the web at www.ainsmag.co.uk/ro214/3579ro1a.htm