



Stern ramp/doors

The basic cargo access facility to vessels using RoRo terminals is via a combined stern ramp/door. The stern ramp/doors supplied by TTS are designed to match the vessel's dimensions and the range of quay heights it will serve, thus making for optimum operational efficiency.

STERN RAMP/DOORS

Deployment and stowage of the ramp is achieved either by two direct-acting hydraulic cylinders, arranged on each side, or by wires and winch(es). If required, the outer flap can be folded and locked when the ramp is in the stowed (closed) position.

When in closed position the ramp will act as a weathertight door. Hydraulically operated cleats and locking devices secure the ramp door in this position. A control panel is located near the ramp and operation can be achieved either manually by operating the valves or automatically via push buttons.

This type of ramp/door can also be designed to act as a combined ramp/vertical sliding door (see picture top right). Deployment of the ramp takes between three and twenty minutes, depending on its size.

A hydraulically-operated cylinder is located above the centre of the opening to initially launch the ramp, this same cylinder acting as a retarder for the ramp as it approaches its closed position.

As with the ramp shown (right), when raised to its closed position, it will also form a weathertight door. A stainless steel bar on the inboard section compresses against a specially designed TTS rubber gasket around the periphery of the framework to provide the necessary seal. It is secured in this closed position by a hydraulic cleating system. All operations can be protected by sequential interlocking and other safety arrangements.

TTS stern ramps can be supplied as complete turnkey installations including all hydraulic cylinders, winches, power packs, wires, safety and locking systems, indicator systems and controls.



▲ TTS stern ramp/doors equipped with the newly developed Quick-Fit Hinge