

Vertical sliding doors

Intro Doors in the side shell are a feature of almost every type of ship and are employed for various duties, the most common being passenger access, pilot entry and bunker hose connections. For opening, the doors can be side-hinged, top-hinged or, as featured here, arranged to slide vertically upwards.

TTS vertical sliding doors are located on the inside of the shell plating and slide up and down in guides. When the door approaches its lower, closed, position, the guides direct it diagonally so that its outside plating is flush with the ship's shell.

VERTICAL SLIDING DOORS

Opening and closing of the door is achieved hydraulically, the most common method employing a jigger winch assembly, with an alternative system using a direct-acting cylinder. Whichever operating system is used, the door is safely secured in both its open and closed positions by hydraulic wedges fitted to the ship's hull.

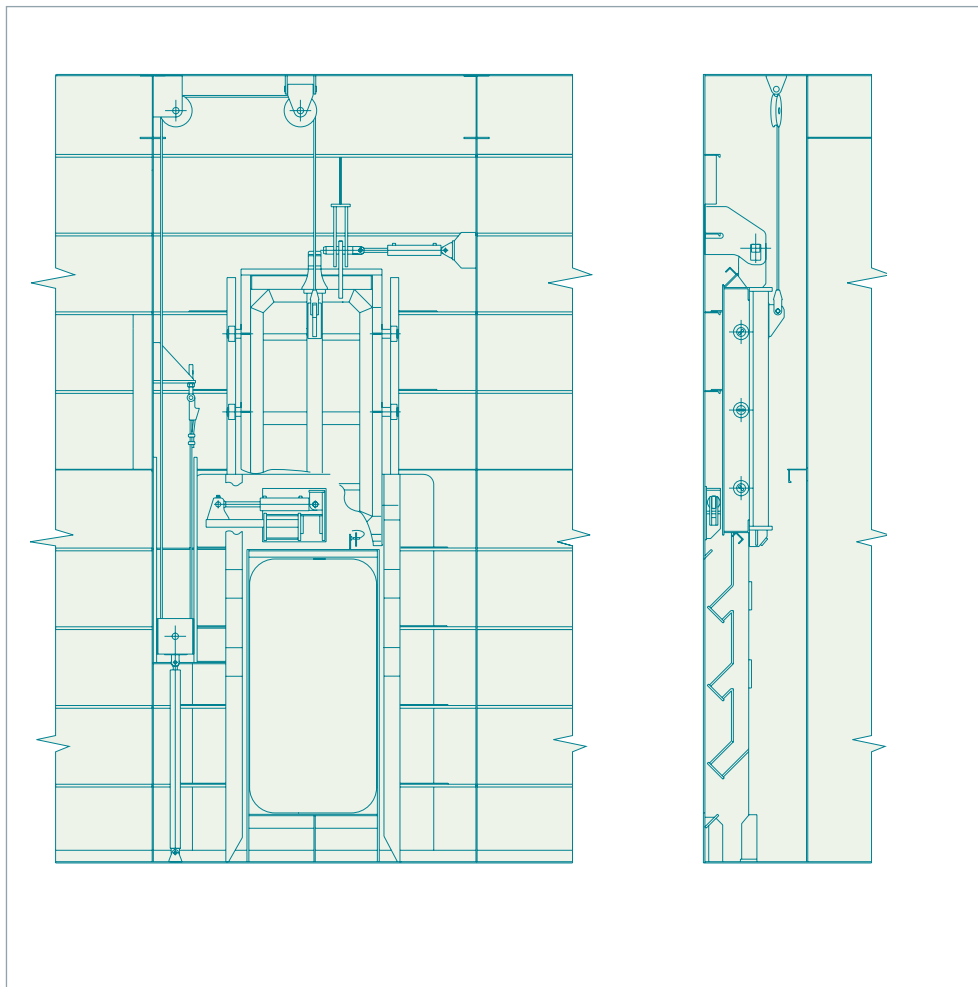
Some classification societies require shell doors to be fitted with a strong-back. This is met in full by TTS Ships Equipment vertical sliding doors which, if necessary, have the strong-back built-in, ensuring safe and reliable service. Fireproofing and insulation can also be built-in if required.

Shell doors, which may be of either steel or aluminium, are constructed of plates and profiles employing classification society-approved materials. They are designed to fit flush with flat or curved hull sections

according to their location. The highest standard of weathertightness, according to the latest rules, is assured by a rubber gasket which provides an all-round seal.

Generally, TTS vertical sliding doors are supplied as complete units, including the guides and coaming. This coaming comprises about 500mm of plate surrounding the door opening and provided with the necessary stiffeners welded in position. This enables a shipyard to quickly and easily install the door into the hull aperture. To reduce hydraulic pipe runs to a minimum, a small hydraulic power pack can be located adjacent to the door, further simplifying installation.

Operation of the door is effected through manoeuvring valves, which may be either manually operated or automatically controlled by means of pushbuttons, as



specified. An operating stand is positioned close to the door and incorporates a panel with an LED display to indicate the locked/unlocked status of the door. If required, a remote display can be supplied for installation on the bridge to indicate when the door is fully secured and cleated.

TTS Ships Equipment also makes other forms of side doors (top-hinged and side-hinged)

◀ Side and top views of the vertical sliding door