

FREEMAN MARINE custom fabricated Premium Duty hatches offer a wide range of options to meet virtually any specification. Rugged construction featuring thick panel skins (.160" up to .250"), internal reinforcements and smooth welded skins to assure the reliable service and refined appearance expected in FREEMAN fabricated individually dogged hatches. Premium Duty hatches are specified where frequent open position viewing and guest usage occurs. Hatches may be ordered with flush or proud - raised coamings. Camber and sheer requirements to match deck profiles are routinely crafted. Hatches can be specified with either surface or concealed hinges. Panels and coamings can be specified with custom alignment for teak overlaying by installation yard or builder.



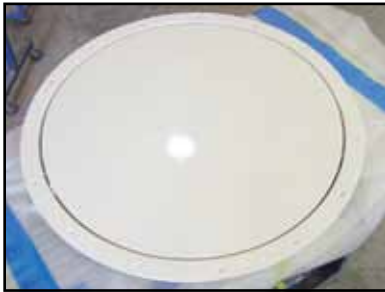
3130, flush D-ring dogged handle, flush surface hinges



3130, escape hatch, lift-out, guide pins (interior view)

#### PREMIUM DUTY PANEL HATCH DESIGN FEATURES

- **Custom Shaped and Sized to Client Specifications**
- **Camber and Sheer to Match Decks** (available)
- **.160" ~ .250" Thick Aluminum Panel Skins**
- **Welded Frame and Skin Construction**
- **Knife-edge Sealing Method**
- **Wide Gasket for Aggressive, Tight Sealing**
- **Flush with Deck or Raised Coamings**
- **Bolt-in and Weld-in Coamings**
- **Cast, Precision Machined Handles, wide selection of styles and finishes**
- **Surface or Concealed Hinges**
- **Gas Spring Assist for Easy Lift and Closure**
- **Custom Drain Locations**
- **Teak Overlay Prep** (available)
- **Internal Panel Stiffeners**
- **Yacht-quality Painted Finish**
- **External Bi-square Opening** (available)
- **Stainless Steel Shafts and Fasteners**
- **Cast Dogs with Roller Bearing Cam Followers**
- **Glass Filled Striker Wedges**



Escape hatch lift-out, Exterior view



Escape hatch lift-out, Guide pins, Interior view



Two dog, Storage hatch



Two dog, Storage hatch, Open



Flush D-ring dogged handle, Flush surface hinges



Single dog, Single gas spring, Surface hinges



This 3130 custom deck hatch is prepped with raised surface hinges and bi-square for builder installed teak overlay.

Bi-square, Installed flush with teak deck



Bi-square, Polished, Raised for teak overlay



Flush D-ring dogged handle



Handle, Lever with flat/low profile



Flush surface hinge, Raised for teak overlay



Yoke hinge, With hold open, 3000 Series hatch



Drain bottom, 3000 Series hatch



Drain side, 3000 Series hatch

