

Turbine Access Data Sheet

Houlder has developed the Turbine Access System™ in partnership with BMT Nigel Gee to provide personnel access between operations and maintenance workboats and turbine towers – offering improvements in safety, comfort and productivity.

The Turbine Access System is strongly supported by industry including developers, vessel operators and utilities. It already features in several proposed workboat designs.

The system uses a motion compensated gangway and dampening bow rollers to deliver access at higher sea states than existing solutions. Designed to optimise support vessel operability, the system will provide a stable platform in sea states up to 2m significant wave height without the need for dynamic positioning or other complex vessel systems.



The TAS™ utilised on typical workboat



Gangway

Overall Length	7.4m (Max) 5.4m (Min)
Vertical Amplitude	+/- 1.9m (Max) +/- 1.6m (Min)
Brow Angulation	+/- 15°
Roll Compensation	+/- 5° normal operations +/- 10° max
Pitch Compensation	+/- 10° max
Max Sea State	2m Hs @ 4s Tz depending on vessel motions

Vessel Integration

Gangway footprint	1.6m long x 2.2m width
Roller footprint	0.5m x 1.0m (approx.)
Power requirement	20kw or 130 bar hydraulic supply from vessel supply or self-contained diesel unit
Weight (dry)	1500 kg (approx.)

Designed against Lloyd's Register of Shipping, CLAME
ISO 7061: 1993 Aluminium Gangways

Bow Rollers

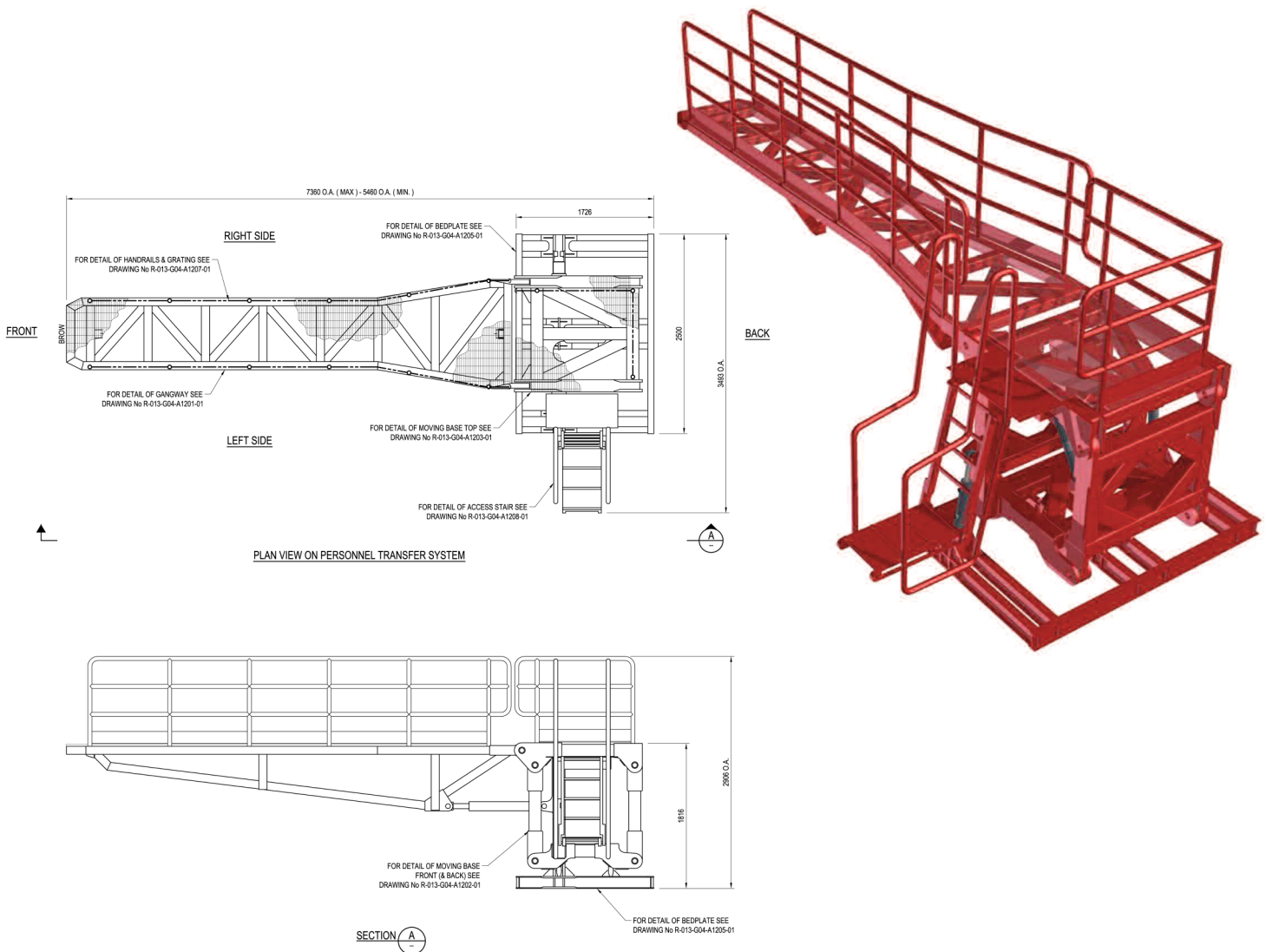
Designed to roll against the turbine bumper bar Integrating damping system to reduce vessel pitch

Safety Features

Access Traffic Light System (Green, Red)
Operator Warning System (Green, Amber, Red)
2 Control Consoles
Anti-slip Gangway Coating

Materials

Structure: 6000 Series Marine Aluminium
Fittings: Stainless Steel
Anti-Slip GRP Grating



Houlder, 59 Lafone Street, London SE1 2LX UK

Tel: +44 (0) 20 7357 7317 • Email: renewables@houlderltd.com • Web: www.houlderltd.com