

# Stronghold® Fortify® System

## Permanent Caprock Integrity

The **Stronghold® Fortify® system** is the next generation barrier verification system used in plug and abandonment (P&A) and slot recovery. It is a superior system used to verify the integrity of existing annular barriers such as creeping formation and cement, ensuring **Permanent Caprock Integrity**.



**STRONGHOLD®**  
Permanent Caprock Integrity

### Benefits

- One-trip system
- Integrated pressure verification system with primary and back-up temperature and pressure gauge to confirm annular integrity.
- Small test volume for accurate integrity testing
- Solid ballseat system eliminating the need to drop balls or darts from surface

### Applications

- Permanent Plug & Abandonment
- Slot recovery
- Workover operations
- New drills

### Features

- VO rated ball valve system

Archer's Stronghold® Fortify® system provides a reliable verification of annular integrity, and is an effective alternative to traditional integrity testing.

Archer's Fortify® system achieves this in just 1 trip by:

- Perforate the casing
- Test the integrity of the annulus
- Verify annulus integrity utilizing a unique pressure verification system
- Cement across the perforated area

The significant improvement from the standard integrity tests systems in the market is the two independent pressure and temperature sensors integrated in the Fortify® system. The sensors deliver two independent verifications in addition to traditional volume verification. Fortify® is the next generation barrier verification system.

### Specifications

Casing Size, in	6 5/8 - 7 5/8	9 5/8 - 16
Min ID, in	2.2	2.3
Circulation rate, lpm [bbl/m]	1,600 [10]	2,200 [14]
Pressure rating, psi [bar]	5,000 [344]	5,000 [344]



Archer is a global oil services company with a heritage that stretches back over 40 years. With a strong focus on safety and delivering the highest quality products and services, Archer operates in 40 locations over 19 countries providing drilling services, well integrity & intervention, plug & abandonment and decommissioning to its upstream oil and gas clients. **We are Archer.**