

OVERVIEW

The Rhi-Node 1000 chamber is deployed in underground telecommunications and other utility infrastructure, complementary to blown fibre cable applications. It is modular to achieve flat-stack packaging. The chamber is cylindrical to maximise strength and internal space utilisation. It features a split entry design, to accommodate drop-in installation over existing ducts of various diameters. All its components are manufactured in a quality assured factory, certified to ISO 9001.

The lid and frame of the chamber incorporate a mechanical locking mechanism and is available with a feature enabling unique identification and automated GPS positioning of its location. Brackets are provided for cable slack management, and adding additional cables during the chamber lifespan.

An electronic locking solution and an IoT environmental sensor are available optionally, to remotely manage access to the chamber and to monitor the environment inside it and receive alarms when pre-determined levels of vibration/impact and light are exceeded.



TECHNICAL INFORMATION

MATERIALS

Lid, frame, side panels and base plate	UV stabilised glass reinforced polyester (GRP) in sheet moulded (SMC) format; 30% glass fibre content
Latch and alignment plate	Thermoplastic
Assembly clips	ABS plastic
All metal components and fasteners	Stainless steel 304

STANDARDS

SANS 558 Heavy Duty and EN124 Classes B125

ACCESS CONTROL: Standard

Coded mechanical locking and opening mechanism

ACCESS CONTROL: Optional

Access controlled mechatronic lock

LID

Raised non-slip pattern (65% of surface area), branded

DUCT & SLEEVE ENTRY PORTS

12 off 110mm diameter, normally sealed with knock-out section

4 off 160mm diameter, split entry, sealed with end-cap

MASS

98kg, fully assembled (max mass of any single component: 26kg)

PRIMARY DIMENSIONS

Daylight opening: 650mm, chamber depth: 1,000mm extendable

WARRANTY

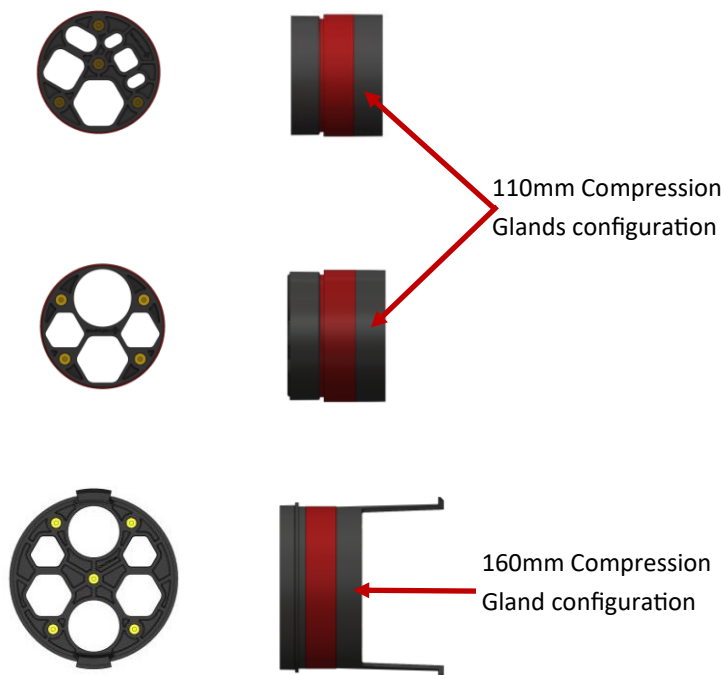
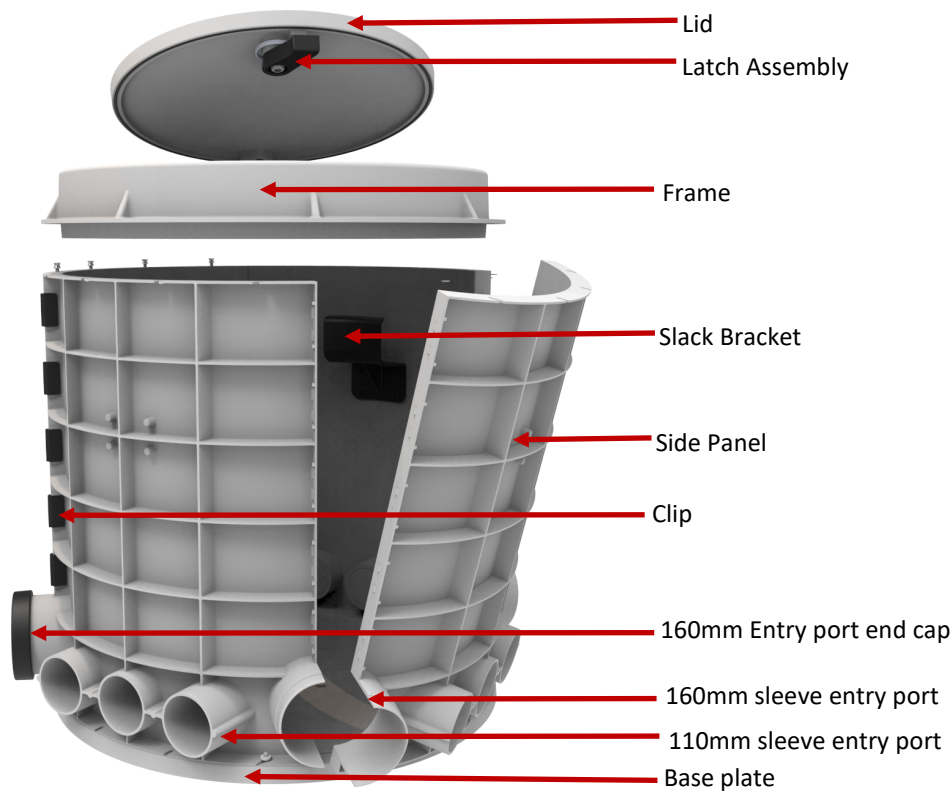
15 years manufacturer's warranty

OPTIONAL VARIATIONS AND ACCESSORIES

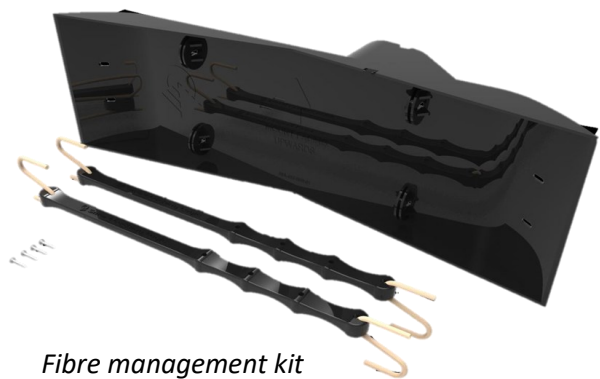
- Expansion side panels in 150mm height increments
- Extra sets of duct entry ports
- Brackets for fibre slack management and mounting of splice closures
- Fully assembled dolomite compliant variant, including compression glands for various duct configurations, water-tight panels and base, and sealed joints

EXPANDED VIEW AND ACCESSORIES

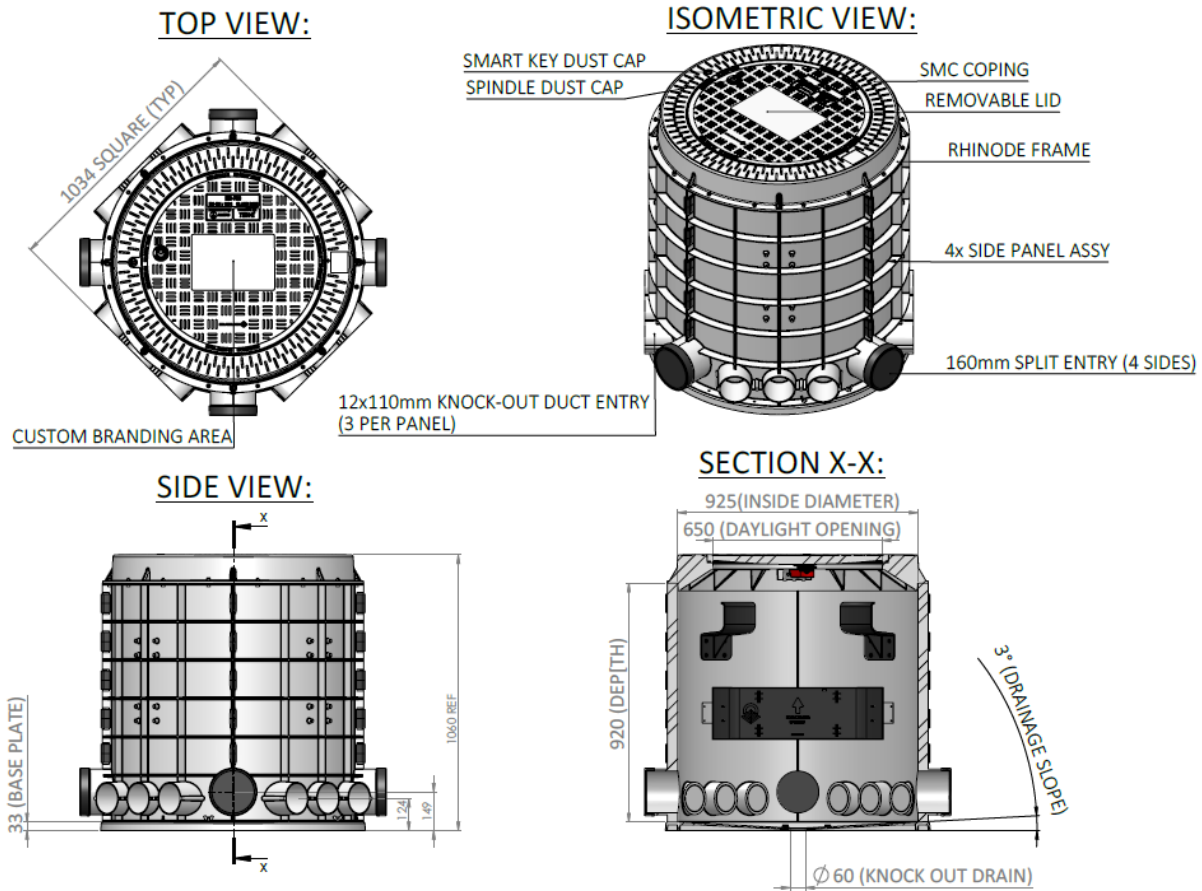
Components



Different compression seals



Slack bracket (4x per chamber)



ADDITIONAL RECOMMENDATION:

For high vandalism/low security areas, it is recommended that a 1500 x 1500 x 150mm reinforced concrete slab must be casted on site after the chamber is deployed in final position. Make sure that the top bolts where the coping is installed on the side panels are covered with reinforced concrete.

