

### OVERVIEW

The Rhi-Node 1000 manhole is deployed in buried telecommunications and other utility infrastructure, complementary to blown fibre cable applications. It is modular to achieve flat-stack packaging. The manhole 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 manhole 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

ACCESS CONTROL: Standard	Coded mechanical locking and opening mechanism
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ACCESS CONTROL: Optional	Access controlled mechatronic lock
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LID	Raised non-slip pattern (65% of surface area), branded
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DUCT & SLEEVE ENTRY PORTS	12 off 110mm diameter, normally sealed with knock-out section
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	4 off 160mm diameter, split entry, sealed with end-cap
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MASS	98kg, fully assembled (max mass of any single component: 26kg)
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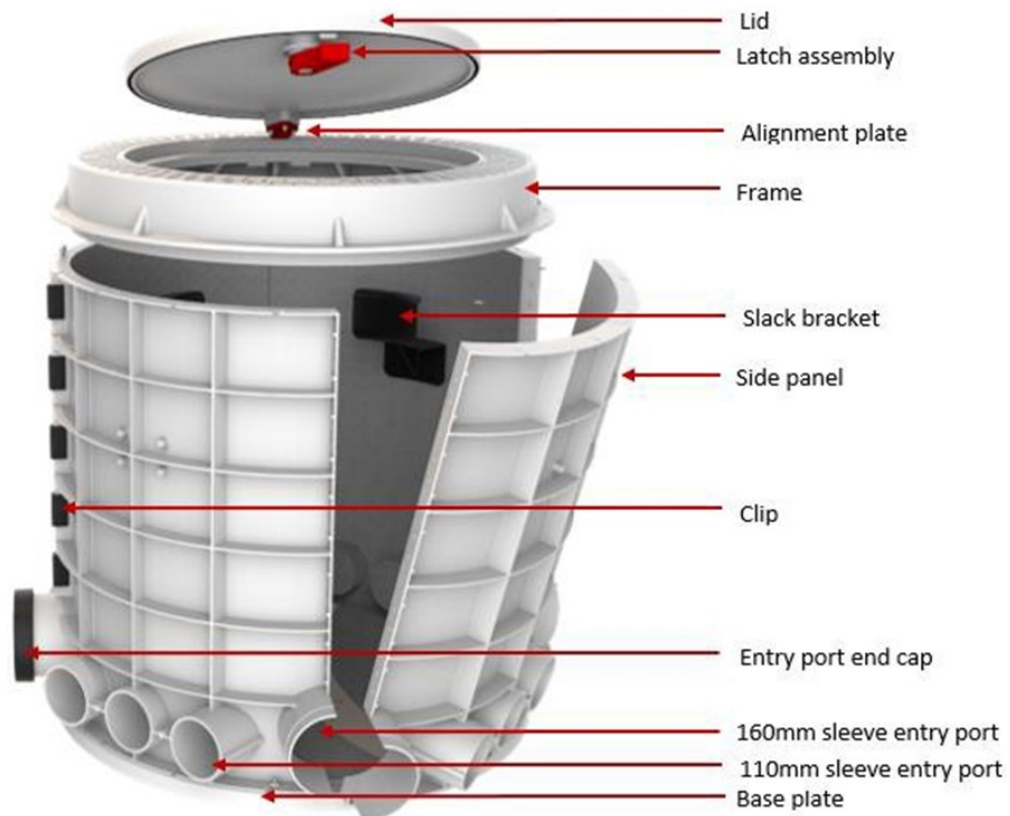
PRIMARY DIMENSIONS	Daylight opening: 650mm, chamber depth: 1,000mm extendable
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WARRANTY	15 years manufacturer's warranty
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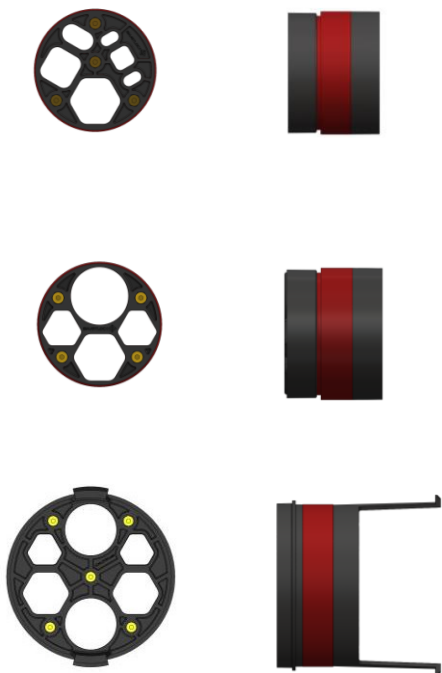
#### OPTIONAL VARIATIONS AND ACCESSORIES

- 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 and combi-boots for various duct configurations, water-tight panels and

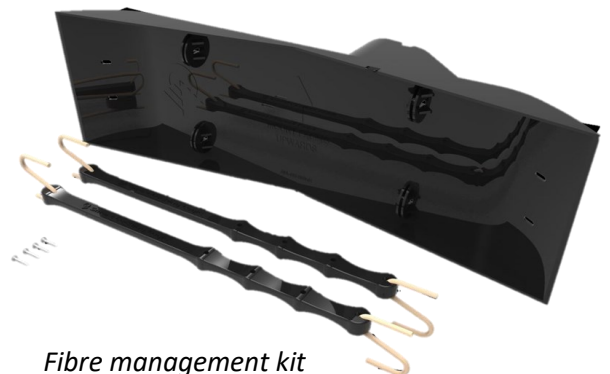
# EXPANDED VIEW AND ACCESSORIES



*Components*



*Different compression seals*

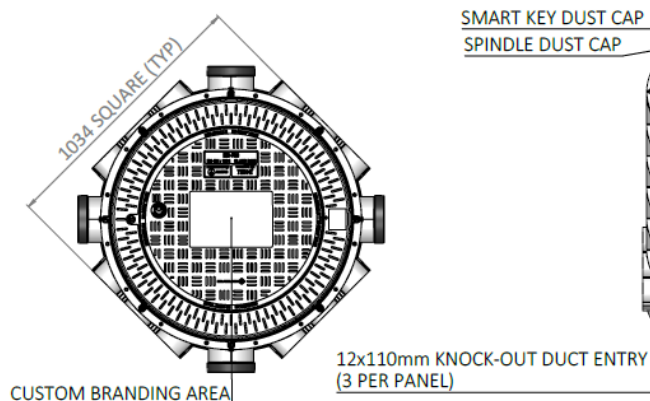


*Fibre management kit*

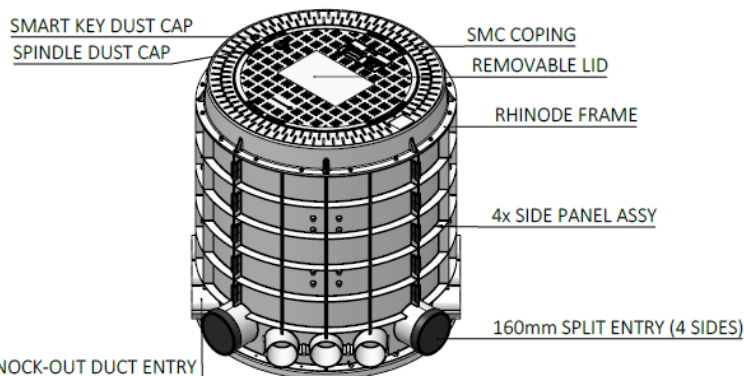


*Slack bracket (4x per manhole)*

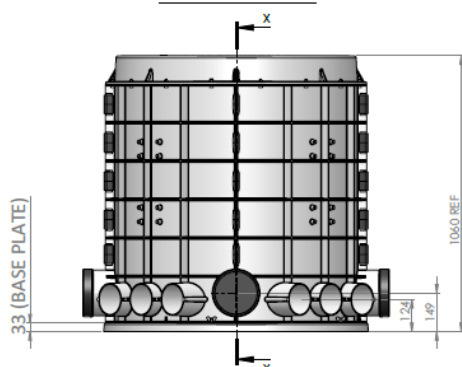
**TOP VIEW:**



**ISOMETRIC VIEW:**



**SIDE VIEW:**



**SECTION X-X:**

