

Bespoke to Any Duct

Tested to 1 Bar / 24 Hrs

Flood & Gas-Tight

Cables Stay In Situ

On-Site Testing

PRODUCT SPECIFICATION

Duct Sealing

Flood & Gas-Tight Sealing of Below-Ground Cable Ducts & Entries



Key Features

- **Flood-Proof Seal**
 High-quality silicone-based sealant eliminates the risk of flood water breaching ducts and cable entries below ground level
- **Gas-Tight Barrier**
 Dual-function seal prevents hazardous ground gases passing through and building up inside the building interior
- **Cables Remain In Situ**
 Existing cables and ducts stay in place, and new cables can be inserted into the duct as required
- **Individually Sleeved**
 Each cable is sleeved for protection and flexibility before the duct is sealed
- **Movement Tolerant**
 Accommodates the movement, vibration and shock that cables are subjected to over their lifespan
- **Flange System**
 Innovative aluminium flange fixed and sealed to the structure where the duct or civil works are in poor condition
- **Pressure Tested**
 Successfully tested to 1 bar for 24 hours, with on-site testing available after the curing period
- **Substation Ready**
 Ideal for HV/LV switch rooms with tens or hundreds of cables fed through below ground level

SEALANT

Silicone Based

TESTING

 1 Bar
 24 Hours

BARRIER

 Flood &
 Gas-Tight

SLEEVES

 Per Cable
 Flexible

BACKING

 PU Foam
 & Resin

FLANGE

 5mm Alu.
 Steel Angle

MM Engineering

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Get a Quote Today

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Technical Specification

The MM Engineering duct sealing system flood-proofs the cable entries and ducts around and beneath a building — a particular risk for structures housing large and high-voltage electrical equipment such as substation switch rooms. The system is engineered and installed by MME, allowing existing cables and ducts to remain in situ while delivering both a watertight and gas-tight seal.

ITEM	SPECIFICATION
System Type	Flood-proof and gas-tight sealing of below-ground cable ducts and entries
Application	Cable entries and ducts around and beneath buildings — HV/LV substation switch rooms
Primary Sealant	High-quality silicone-based duct sealant
Cable Sleeving	Individual duct seal sleeves — one per cable, for protection and flexibility
Flange Plate	5mm aluminium sheet flange (where duct / civil structure is in poor condition)
Edge Framing	50x50 angle to sides and top; 100x50 angle on bottom
Back-Packing	Waterproof closed-cell expanding resin
Secondary Fill	Polyurethane expanding foam
Pressure Rating	Successfully tested to 1 bar (\approx 100 kPa) for 24 hours
Gas-Tightness	Prevents migration and build-up of hazardous ground gases
Movement	Accommodates cable movement, vibration and shock over the service life
Retrofit	Existing cables and ducts remain in situ; new cables insertable as required
On-Site Testing	Available after installation and curing period
Installation	Designed, supplied and installed by MM Engineering

Certification & Quality

The MME duct sealing system is designed and installed by our own engineers and proven to flood and gas-tightness pressures of 1 bar for 24 hours. The product can be tested on-site following installation and curing to verify performance in place.

MM Engineering operates to recognised industry accreditations, holding Constructionline Gold, SSIP, and UVDB (empowered by Achilles) registrations — assuring competence, safety and quality across every installation.

Built Bespoke to Your Requirements

Every duct seal is engineered to the specific cable arrangement and civil structure on site. We design, supply, install, and test — a complete single-source solution.

[Contact us for a same-day quote](#)