

# INSTALLATION METHOD STATEMENT AND SAFETY DATA

**POLYLID**

E128/256

Patent Pending

# POLYLID METHOD STATEMENT

## THIS METHOD STATEMENT TO BE READ IN CONJUNCTION WITH POLYLID E128/256 SAFETY DATA

**All** works associated with the installation shall be carried out in accordance with this method statement, the new Roads and Street Works Act 1991 (SROH) and BT Openreach Specification LN550.

### PRIOR TO EXCAVATION

#### PPE required:

Hard hat	Approved boots
Hi viz vest	Protective gloves and eyewear

Carry out an on-site risk assessment to take into consideration local conditions.

#### 1) Erect temporary barriers and signs.

**2) Use a cable avoidance tool** (cat) with the assistance of utility prints to search for existing services prior to any excavation.

**3) Use Linesearch** to determine if any hazardous pipeline is present.

**4) Remove surfacing** (Place to one side for later reinstatement if suitable). All materials that are to be reused should be protected from excessive drying or wetting during storage.

**5) Excavate hole** in accordance with HSG47 Safe Digging Guidance to a minimum size of 950mm x 574mm (use Polylid H128 as template) and a depth suitable to receive D54A and D36A ducts (**see Dia 1**). Reuse Cat and Genny when the excavation is 300mm deep and before installation of earth rod.

**6) Install earth rod.** Earth rod to protrude 45mm above top of duct (in accordance with LN550/523). Polylid can be used as a template for positioning the earth rod.

**7) Install ducts** type D54A bends, D36A bends and D36 straight extended beyond the footprint of the foundation. D36 straight for earth rod. Polylid can be used as a template.

**8) Backfill** with a minimum of 100mm of GSB1 stone (or ST2 leanmix concrete) and compact in accordance with The New Roads and Street Works Act 1991 (SROH) and BT Openreach Specification LN550-6.

**9) Fill excavated hole with concrete and compact** as per BT Openreach dwg :- FTTC ECI 128/256 Cabinet concrete plinth and BT Openreach specification LN550-6. Use a wooden float to give the concrete a smooth and level finish.

**10) Install indented foundation bolts** (drg.cn1165) into lid with a min of 30mm protruding from the top of Polylid.

**11) Embed Polylid minimum of 10mm into the concrete** and check that it is level.

**12) Cover Polylid with Polythene** to keep clean and dry.

**13) Cure concrete** in accordance with BT Openreach specification LN550.

**14) Remove polythene.**

**15) Apply a 20mm deep bead of MS60 sealant** between Polylid and all ducts to give a smooth finish and effective seal (**Dia 3**). Ensure that disposable plastic gloves and protective eye wear are worn when applying sealant. Prior to applying the sealant use sandpaper to roughen the

surface of the ducts and Polylid. Installation, storage and disposal of sealant should be carried out in accordance with sealant manufacturer's instructions.

**16) Ensure that the gasket is clean and free from obstructions** before the cabinet is placed.

**17) Place the cabinet into position** on top of Polylid. Apply MS60 sealant around bolts and under washers prior to tightening nuts. Add a flat washer then a washer over the 16mm diameter cabinet fixing bolts and tighten the nuts to a max torque of 45N/M. (Ensure the washer is compressed).

**18) Reinststate surfacing** in accordance with The New Roads and Street Works Act 1991 and BT Openreach specification LN550-6.

### Precast Concrete (PCC) foundation installation only.

**a) Perform operations 1-8 above then install PCC foundation** in accordance with BTO drawing (FTTC ECI 128/256 Pre-cast concrete plinth), contractors method statement and lifting plan. Ensure that the top of the foundation is smooth, level and clean. Remove any irregularities if necessary.

**b) Install cabinet fixing bolts into PCC foundation.** (M16 Grade 4.6)

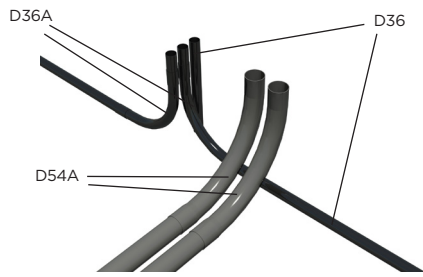
**c) Place Polylid onto PCC foundation.**

**d) Apply a 20mm thick bead of MS60 sealant** between Polylid and all ducts to give a smooth finish and effective seal (**Dia 3**). Prior to applying the sealant, use sandpaper to roughen the surface of Polylid and the ducts.

**e) Ensure that the gasket is clean and free from obstructions** before the cabinet is placed.

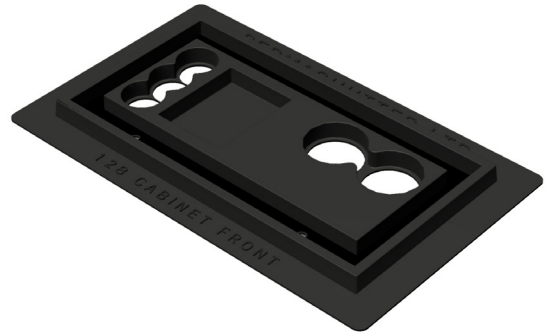
**f) Lift the cabinet into position** (in accordance with contractors lifting plan) on top of Polylid. Apply MS60 sealant around bolts and under washers prior to tightening nuts. Add a flat washer then a washer over the 16mm diameter cabinet fixing bolts and tighten the nuts to a max torque of 45N/M. (Ensure the washer is compressed).

**G) Reinststate surfacing** in accordance with The New Roads and Street Works Act 1991 and BT Openreach specification LN550-6.

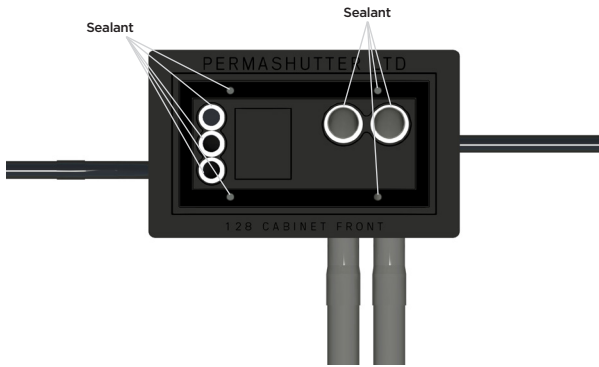


Standard Duct Configuration

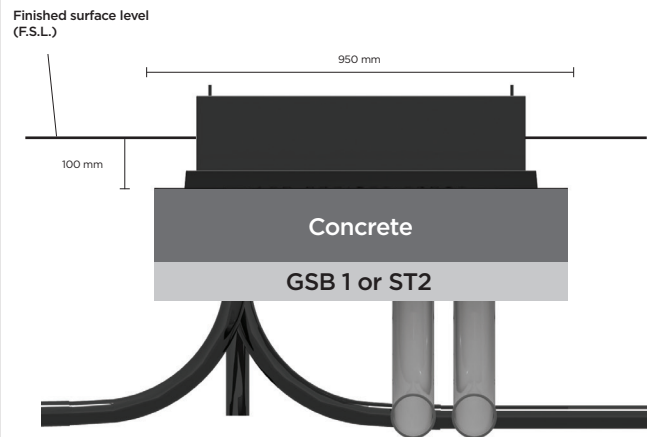
**Diagram 1**



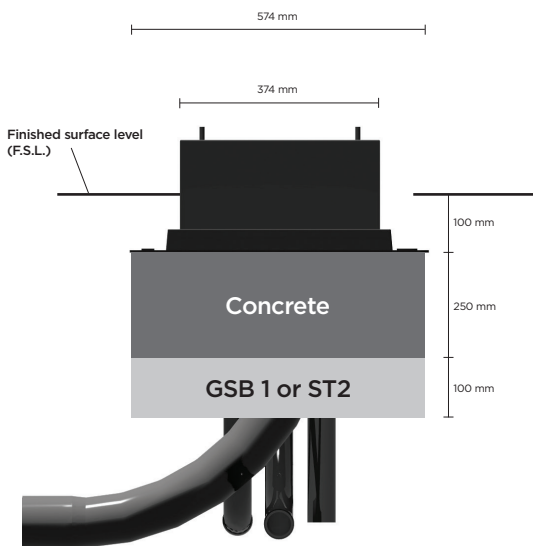
**Diagram 2**



**Diagram 3**



**Diagram 4**



**Diagram 5**

# POLYLID SAFETY DATA

## 1. IDENTIFICATION

PRODUCT NAME: Polylid  
SUPPLIER: Permashutter Ltd  
Portfolio Innovation Centre, St  
Georges Avenue, Northampton NN2  
6FB.  
TELEPHONE: 01604 779017  
EMAIL: enquiries@permashutter.com  
WEB: permashutter.com

The following information is based upon our current knowledge and experience of our products and is not exhaustive. It applies to the product range outlined above. The potential hazards identified, together with the recommended precautions for storage, handling and use, give the basic information for conducting workplace risk assessments and adequate control measures under the Management of Health and Safety at Work Regulations 1998 and Control of Substances Hazardous to Health Regulations 1999.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Product Description: Various sizes of Acrylonitrile Butadiene Styrene (ABS) Polylid  
ABS Hazardous Ingredients :  
Acrylonitrile, Butadiene, Styrene  
EPDM Gasket Hazardous Ingredients:  
None

## 3. HAZARDS IDENTIFICATION

There are no known hazards associated with the solid products. ABS is chemically stable at normal temperature. Whilst some materials used in manufacture may themselves present a hazard, the finished product is chemically stable and no longer constitutes a chemical hazard.

## 4. FIRST AID MEASURES

Eye contact: Rinse with clean water to remove any particles. Seek medical advice  
Skin contact: Wash with soap and water. Burns caused by molten material require hospital treatment  
Ingestion: Wash out mouth with water. Obtain medical attention.

## 5. FIRE FIGHTING MEASURES

ABS is combustible, but burns slowly. In a fire it will melt and falling droplets may propagate the fire. Extinguishing Media: In the early stages of a fire avoid the use of water jets as this may propagate the fire. For minor fires use carbon dioxide (CO<sub>2</sub>) or powder, water. For more extensive fires: foam, water spray (mist) to cool, CO<sub>2</sub>, or dry powder. If possible remove plastic from the seat of the fire. If immediate action fails to extinguish evacuate the building. With large fires self contained breathing apparatus must be worn. Exposure hazards complete combustion, with an excess of oxygen forms: carbon dioxide (CO<sub>2</sub>) and water vapour. Partial combustion, forms also: Carbon Monoxide (CO), soot and cracked products, aldehydes, ketones, hydrocarbons and volatile fatty acids. Protective equipment for fire-fighters: wear suitable breathing equipment, in case of exposure to vapour or fumes.

## 6. ACCIDENTAL RELEASE MEASURES

Not Applicable

## 7. HANDLING AND STORAGE

Store: Inside.  
Storage Precautions: This product is combustible. Store away from naked flames or hot surfaces. ABS should not be stored in contact with strong acids or powerful oxidising agents.  
Manual Handling: Polylid 128 weighs <3KG and can be lifted safely by one person.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Gaseous products of degradation can be given off if the product is overheated. Avoid inhalation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES\*

Appearance: Solid plastic products  
Odour/Taste: None  
Density: @1.08g/cm<sup>3</sup> (variable)  
Melting Point: 88 - 125°C

Mass: <3Kg  
Decomposition: 260 - 325°C  
Ignition temperature: >360°C  
Solubility: Insoluble in water

## 10. STABILITY AND REACTIVITY

ABS products are completely stable in normal use. Fire or high temperatures create a variety of gases and vapours, Water, Aldehydes (Acrolein), Carbon monoxide (CO), Carbon Dioxide (CO<sub>2</sub>) and Hydrogen Cyanide.

## 11. TOXICOLOGICAL INFORMATION

In our experience and information available to us, the product is not harmful to health provided it is correctly handled and processed.

## 12. ECOLOGICAL INFORMATION

There is no risk to the environment from the use of this product. The product has not been tested due to its consistency and its low water solubility. Bio-availability is unlikely.

## 13. WASTE DISPOSAL

Disposal Methods: Waste product comes within the scope of The Environmental Protection (Duty of Care) Regulations 1991 (SI1991/2839 as amended SI 1996/972). Recycling possible.

## 14. TRANSPORT INFORMATION

These products are not classified as dangerous goods for carriage.

## 15. REGULATORY INFORMATION

Not classified as dangerous for supply.

## 16. OTHER INFORMATION

This product should be used as directed. Recipients of the product must take responsibility for observing existing laws and regulations. This Safety Data Sheet was compiled using the current safety information supplied by the distributors of the component materials. This Safety Data Sheet supersedes all previous issues. Users are cautioned to ensure it is current as of April 2013.