

INFORMATION LEAFLET FOR ELECTRICAL CONTRACTORS ON ITEMS RELATING TO ELECTRICAL SUPPLY IN MIDSTREAM



*Midstream Electrical Supplies (MES) is the utility company responsible for electrical supply in Midstream.

I hereby acknowledge receipt of this information leaflet.

Name: _____ Date: _____

Signature: _____

MES REGISTRATION NUMBER:

1. Registration of an Electrical Contractor:

- 1.1 All electrical contractors working within Midstream must be registered with MES;
- 1.2 The registration must be completed before any work commences;
- 1.3 In order to register, proof of identification (ID document or driver's license) as well as a copy of the up-to-date ECB registration certificate must be provided.

2. Builder's Connection:

- 2.1 A builder's (temporary) connection is compulsory during construction;
- 2.2 In order to apply for a builder's temporary connection, the stand owner must submit an application form and pay the connection fee;
- 2.3 The electrician must be registered with MES (see paragraph 1 above), submit an electrician's Certificate of Compliance (COC) for the temporary connection and render a connection point in a temporary, weatherproof distribution board. Said connection point to comply with SABS 0142 standards at all times;
- 2.4 Electrician to arrange a meeting on site with MES's Electrical Inspector at the MES office (012-6871300), at least 24 hours in advance, excluding weekends;
- 2.5 The account for a builder's connection will be sent to the stand owner. No power will be switched on without the submission of a COC.
- 2.6 Minimum cable size 16mm².

3. Permanent Connection:

Herewith notice that the procedure for final electrical inspections must follow the sequence set out below:

- 3.1 Electrician completes electrical installation and preliminary testing;
- 3.2 Stand owner applies for permanent connection (meter), pays associated charges, signs a service contract and pays service deposit, at the MES office.
- 3.3 Permanent connection will only be approved if all compulsory documents are handed in at the MES office. A COC, issued by the Electrician, is one of the compulsory documents, as well as a HOA-certificate.
- 3.4 MES installs electrical meter & completes connection.
- 3.5 Electrician arranges for an on-site final inspection by the Electrical Inspector, at the MES offices.
- 3.6 Electrical Inspector will meet electrician on site to do final inspection and sign off COC.
- 3.7 Electrical Inspector also assists with fibre installation (see point 5 on page 3.)
- 3.8 Minimum cable size 16mm².

4. Ripple Box Specifications for the installation of a Geyser Control Unit:

The installation of a geyser control unit is a pre-requisite for electrical supply by Midstream Electrical Supplies.

4.1 In order to facilitate the installation of a geyser control unit & metering, the provision of two (2) 450x300x230 "Ripple"-boxes is compulsory and must be accessible at all time. Note: A 3Ph connection will require a 450x450x210 box for the metering. These boxes must be interlinked with each other.

Note: A 3Ph connection will require a 450x450x230 box for the metering.

- 4.2 Installation of CBI Clip rail or Din rail;
- 4.3 Minimum space of 12 clips (16cm) required;
- 4.4 Double pole isolator for single phase and triple pole isolator for 3 phase;
- 4.5 For 3 Phase supply, geysers can be controlled independently on different phases; separate connection wires must be provided and properly labelled;
- 4.6 All geyser supply wires must be wired via the ripple box;
- 4.7 All UFH circuits must be wired via the ripple box;
- 4.8 A 10Amp circuit breaker must be installed for the supply to the geyser control unit plus a 2.5mm², neutral from the mains isolator.

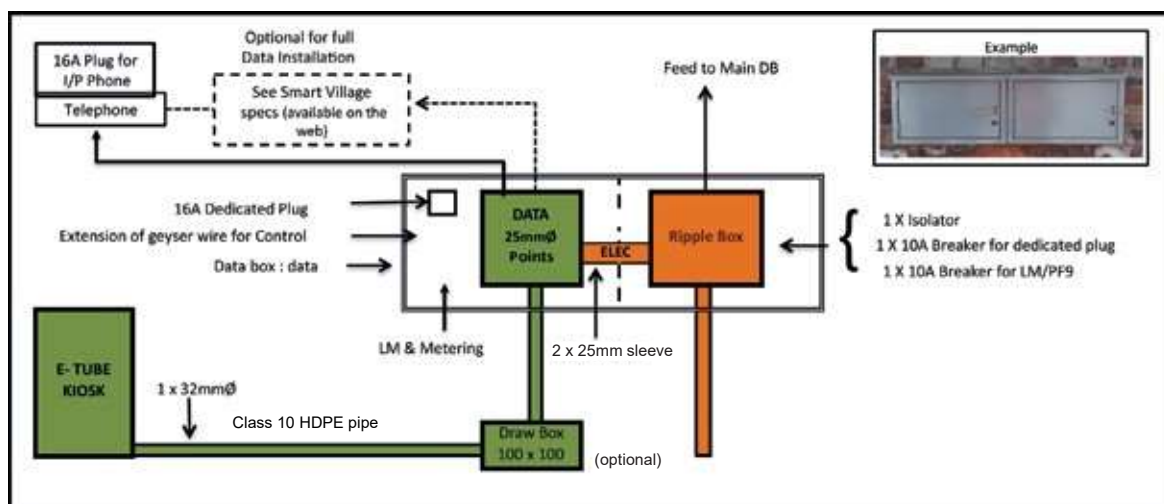
The Ripple box must be placed in such a way that it is easily accessible to MES personnel & may not be obstructed by walls or gates.

5. Fibre to home:

eTUBE box specifications for Midstream Hill, Midstream Ridge and future estates are as follows:

- 5.1 A box similar to the ripple box for electricity is to be installed next to or above electricity box;
- 5.2 It must be equipped with a 16A plug socket connected via earth leakage or a 16A dedicated (red) plug as per SANS code;
- 5.3 A minimum earth conductor of 2.5mm² must be installed and properly connected to the main supply;
- 5.4 The supply pipe must be 32mm class 10 HDPE pipe with welded joints or bigger, connected with the eTUBE supply pipe and fitted with draw wire;
- 5.5 The electrician will assist MES with the installation of the fibre cable during or before the final electrical inspection;
- 5.6 The power to the dwelling will not be switched on in the absence of the fibre and first point
- 5.7 All points in the dwelling shall be wired via a star connection.

The eTUBE box must be placed in such a way that it is easily accessible to MES personnel & may not be obstructed by walls or gates.





DETAIL OF ELECTRICIAN RESPONSIBLE FOR CERTIFICATE OF COMPLIANCE

STAND NUMBER:
ELECTRICIAN: Name & Surname
COMPANY NAME:
CONTACT NUMBER:
MES REGISTRATION NO:
DATE ON WHICH SERVICE IS REQUIRED:
TYPE OF CONNECTION
60 A Supply
80 A Supply
3-Phase (3x60A) Supply
SIZE OF GEYSERS
Geyser 1
Geyser 2
Geyser 3
NUMBER OF HEATING CIRCUITS
Swimming Pool
Jacuzzi
Under Floor Heating

Signature of Electrician: _____ Date: _____

Signature of Owner: _____ Date: _____