

SUGGESTED PLUG-IN BUSWAY SPECIFICATIONS

GENERAL

Supply and install to S.A.A. requirements a busway distribution system manufactured to the following specifications:-

Busway offered must have a Certificate of Suitability from the Energy Authority as meeting all Electrical Safety requirements.

The busway shall be a 'Vass 'S' Series Electrobar' or similar with the following design features:

1. Rating of three phase and neutral busway from 80 to 700A or single phase from 90 to 160A.
2. Have low impedance with consequent low voltage drop per unit length. Voltage drop characteristics to be included with Tender.
3. Fused plug-in take-off boxes and circuit breaker plug-in boxes rated from 10A to 200A to be interchangeable between all busway ratings given in (1.) above.
4. Plug in take off box earth connection shall make before phase connection upon insertion and break after phase connection upon removal.
5. Plug-in take-off boxes constructed such that they are correctly phased when inserted.
6. Insertion and removal of take-off boxes up to and including 100A while busway is live.
7. Plug-in take-off boxes fitted with 32V, 60W output must be available.
8. The manufacturer of the busway shall have the ability if required to custom make any of the attachments including take-off boxes to customer specifications if standard items are not suitable.

RATING & TESTS

The busway shall be designed, constructed and tested for compliance with the relevant clauses of S.A.A. Approval and Test Specifications No C100-1964 and No C151-1960 and all current amendments.

The busway shall have a classification as shown in Table 1 – Copper Busway Ratings, with a short circuit capacity to withstand the mechanical and thermal stress arising from the prospective fault current for the class of busway. The rating of busway shall be as shown

EARTH CONNECTION

A copper earth bar shall be fitted inside the busway enclosure, with provision for connecting between sections to form a continuous earth connection.

CONSTRUCTION

The busway shall be of rigid construction and manufactured in lengths of 1.8m and 3.6m. Corrosion resistance zinc coated sheet steel shall be used for both the busways and power take-off boxes.

FINISH

External surfaces shall be coated with a Polyester Powder Coat. Colour to be Storm Grey to N42 or Electrical Orange to X15 (to AS2700).