

**INDUSTRIAL TROL-E-DUCT®****TYPICAL SPECIFICATIONS**

The electrical contractor shall provide a complete flexible electrical system of interconnected duct runs containing mobile removable current-collecting devices. The interconnected duct sections shall be shaped in the form of a smooth continuous channel from a single piece of 14-gauge steel. This housing shall have a zinc plate and chromate conversion coating to prevent rust or oxidation. The final assembled duct runs shall be rigid in construction and neat and symmetrical in appearance.

The bus bars shall be formed of high conductivity electrical copper and shall be insulated from the casing for their entire length by two thicknesses of insulating material. The bars shall be rigidly mounted against the sides and top of the formed steel channels in such a manner that they have insulated steel backing throughout their entire length to prevent the bending of the bus bars from pressure of current collectors.

The system shall be complete with necessary hangers spaced at not more than ten-foot intervals along the runs. A feed-in adaptor is to be furnished for each individual run and the assembly is to be complete with bus connectors for electrically and mechanically joining the bus bars at the junction of two sections.

A suitable and safe trolley drop-out device is to be provided in sections of the standard runs indicated on the plans. The drop-out device shall have provisions for locking in a closed position and be so constructed that trolleys are instantly accessible for insertion or removal. The drop-out device must be so arranged that it will close by gravity permitting smooth passage of trolleys and prevent injury to personnel or equipment by trolleys dropping out accidentally. The drop-out shall be polarized at the trolley entrance point to assure proper insertion of the trolleys.

The trolleys must be so designed as to permit smooth movement of the carriage and insure accurate alignment and perfect electrical contact for the collectors. The collectors must be graphite impregnated to insure smooth operation and long life.

The above described duct system shall be manufactured by the I-T-E Circuit Breaker Company, or approved equal.