

ELECTRICAL BULLETIN 2014-04

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Pg. 1 of 2

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Subject: Acceptable installation methods that may be used for consumer's service raceway and/or conductors connected to the load side of a meter base which is fed from an overhead supply.

As indicated in Electrical Bulletin 2007-01, with regard to the Canadian Electrical Code, Part 1, 2012 (CEC) rule 6-302 (1) the installation of the consumer's service raceway and/or conductors can only be one of the following installation methods:

- a) rigid metal conduit or rigid PVC conduit,
- b) busway, or
- c) mineral insulated cable other than the lightweight type

Question:

1) Must the same installation method used for the incoming overhead service, as indicated above, be maintained when the service raceway and/or conductors connected to the load side of a meter base exit directly from the back of the meter base to the consumer's service box inside the building?

Answer:

1) No, any of the applicable wiring methods as indicated in CEC rule 6-302 (1) a-i may be used.

Question:

2) Is the service raceway and/or conductors connected to the load side of a meter base that exit directly from the back of the meter base enclosure to the consumer's service box inside the building limited to only one of the above installation methods indicated above ?

Answer:

2) No, any of the applicable wiring methods as indicated in CEC rule 6-302 (1) a-i may be used.

Question:

3) What is an acceptable installation method for the service raceway and/or conductors when exiting the sidewall of a meter base enclosure on the load side other than the back wall ?

Answer:

3 a) When the service raceway and/or conductors exit the sidewall of the meter base enclosure and then directly enter the exterior wall of the building to the consumer's service box any one of the installation methods indicated in a-c above shall be permitted to be used.

3 b) When the service raceway and/or conductors exit the sidewall of the meter base enclosure and run under the building slab prior to connecting to the consumer's service box the following installation methods shall be permitted:

- 1) Teck 90
- 2) ACWU
- 3) Rigid PVC conduit
- 4) Rigid metal conduit

Where one of the installation methods 1 to 4 indicated above is used, additional mechanical protection shall be provided:

- i) for any part of the outdoor installation less than 2m above grade
- ii) where subject to possible damage, or
- iii) where the installation stubs up through the floor slab inside the building and is exposed

Notes:

- 1) Any meter base that uses the back of the enclosure for the service conductors to exit shall have the knockout provided for the enclosure from the factory or where not practicable a field installed knockout in accordance with CEC rule 2-108 shall be permitted.
- 2) All consumers' service raceways shall be properly sealed.
- 3) The use of proper connectors shall be used for each type of installation and proper bonding provided where applicable.
- 4) Ensure the proper bending radius is obtained for any cables transitioning to run underground.

This bulletin may be subject to revisions at any time.

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Any deviations or questions concerning this Bulletin may be forwarded to the:

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