

# IRONMAN™

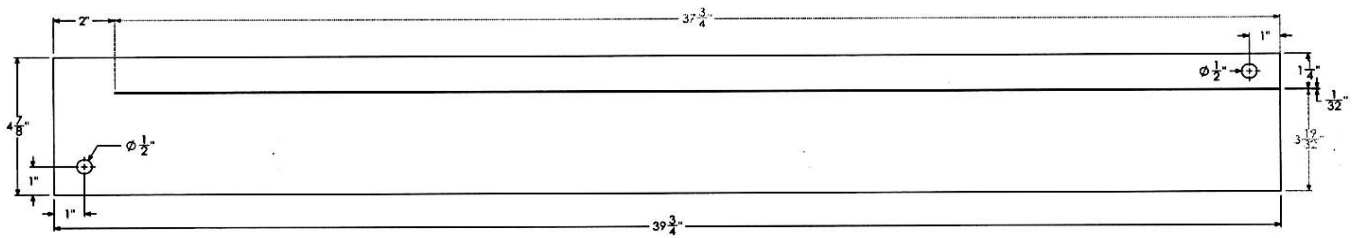
M E T A L S I N C .

US PAT# 11,728,579

CAN PAT # 3,038,935

CSA APPROVED (304123) C22.2 NO. 41-22 – 6.10.4.1

THE REVOLUTIONARY **I-PLATE**. IRONMAN HAS DONE IT ONCE AGAIN. WITH SIMPLICITY, THE NEW **I-PLATE** ALLOWS YOU TO HAVE THE CHOICE OF A FLAT GROUND PLATE OR ONE WITH A VERTICAL FLANGE. ALLOWING IT TO BE BURIED, YET STILL PROTRUDE ABOVE THE CONCRETE FLOOR FOR FUTURE CONNECTIONS.



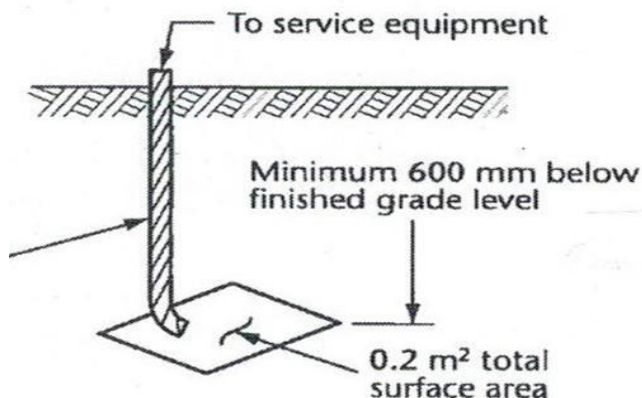
**C22.1-18 Section 10**

*Grounding and bonding*

**10-102 Grounding electrodes** (see Appendix B)

- 1) Grounding electrodes shall consist of
- a) manufactured grounding electrodes
  - c) in the case of a plate electrode, be
    - i) in direct contact with exterior soil at **not less than 600 mm below grade level**; or
    - ii) encased within the bottom **50 mm** of a concrete foundation footing in direct contact with the earth at **not less than 600 mm below finished grade**.

**NOTE: NOT INTENDED FOR CONCRETE ENCASEMENT (IN CANADA ONLY), AS PER CSA STANDARD**





THE **I-PLATE** IS 39 3/4" x 4 7/8" x 1/4". THE FLANGE (SIZED TO EQUAL THE MASS OF A 5/8" ROD) CAN BE LEFT FLAT FOR BURIED CONNECTION OR EASILY BENT BY HAND FOR A VERTICAL CONNECTION ABOVE THE FINISHED FLOOR. THERE IS A HOLE IN THE FLANGE AND MAIN BODY ALLOWING INTERCONNECTION IN A GROUND GRID SITUATION WHERE POOR SOIL EXISTS.

THIS **I-PLATE** ALSO REVOLUTIONIZES THE SHIPPING AND HANDLING OF THIS PRODUCT BY REMOVING THE 5/8" VERTICAL ROD MAKING SHIPPING AND STORAGE EXPENSIVE. THE **I-PLATE** ALLOWS HUNDREDS OF THESE TO BE STACKED FLAT ON EACH PALLET AND THEN PALLETS STACKED ON EACH OTHER. THIS PRODUCT ALSO WEIGHS IN AT ONLY 14 LBS.

IRONMAN IS SO SURE OF THE SUCCESS OF THIS PRODUCT THAT WE DECIDED TO APPLY FOR A **PATENT**, WHICH HAS NOW BEEN GRANTED. WE LOOK FORWARD TO OFFERING THIS PRODUCT TO MANY CUSTOMERS IN CANADA AND THE UNITED STATES.

#### **ADVANTAGES**

1. AT A 1/4, IT IS UNMATCHED IN STORAGE, HANDLING AND USE ADVANTAGES
2. SIMPLY BEND THE LEG TO 90 DEGREE TO THE BODY ANY IT BECOMES ABOVE GROUND CONNECTABLE
3. A 36" TALL LEG ENSURES WORRY FREE BURIAL TO 600MM WITH PLENTY OF CLEARANCE ABOVE THE FLOOR
4. AVOID DELAYS DUE TO INSPECTIONS WITH ABOVE GROUND CONNECTION
5. **MAKES EXPENSIVE CONCRETE ENCASEMENT PLATES OBSOLETE, AS IT CAN BE PLACED ANYWHERE**
6. NO NEED FOR EXPENSIVE "DIRECT BURIAL" CONNECTORS
7. OPTIONAL, ABOVE OR BELOW GROUND CONNECTIONS
8. INTERCONNECT TO OTHER PLATES AS A GRID' IN POOR SOIL CONDUCTIVITY CONDITIONS (SAND)

#### **INSTALLATION**

1. DIG HOLE PER CSA/CES REQUIREMENTS ABOVE
2. GRASP THE LEG OF THE I-PLATE AT MIDPOINT WHILE STANDING ON MAIN SECTION
3. STAND UP WHILE HOLDING LEG UNTIL IT IS PERPENDICULAR TO THE MAIN SECTION
4. PLACE PLATE IN THE HOLE, MAKING ANY CONNECTIONS BELOW GROUND
5. BURY AND CONNECT ABOVE GROUND

**FOR PRICING CALL OR EMAIL US AT**

**780-908-2755**

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## 3.11 RESIDENTIAL GROUND ELECTRODES

- a. This section's requirements apply to all new residential dwellings (single family detached, semi-detached, and row housing).
- b. Ground electrodes shall be:

- i. **Option #1 – Lot Adjacent to Meter Developed**

Where the development of the adjacent lot on the meter side of the house has been completed, the ground plate may be buried outside at a minimum depth of 600mm, at a minimum 1,000mm to either side of the meter location. The ground plate shall remain exposed for inspection.

- ii. **Option #2 – Lot Adjacent to Meter Not Developed**

Where the development of the adjacent lot on the meter side of the house has not been completed, another suitable location such as the rear of the foundation shall be used, with the ground plate buried at a minimum depth of 600mm. The ground plate shall remain exposed for inspection.

- iii. **Option #3 – Ground Plate in Basement**

Where the installation of the ground plate is installed inside the basement, it shall be at a minimum depth of 600mm below the surface of the basement slab, at a minimum 1,000mm to either side of the panel location. The ground plate shall be  $\frac{3}{4}$  backfilled, leaving the termination end and  $\frac{1}{4}$  of the plate exposed for inspection.

(NOTE: The backfilling of the plate electrodes above shall be with native soil, free of large lumps, sand and rock.)

- iv. **Option #4 – Ground Conductor in Footing**

Install not less than 6m of copper, sized according to Table 43 of the Canadian Electrical Code – Part I, encased within the bottom 50mm of a concrete foundation footing in direct contact with the earth, at not less than 600mm below finished grade. This will require an inspection at the time of installation with an additional inspection fee attached.

- v. **Option #5 – Customer Certified Ground Plate**

Install the ground plate (AC Dandy Model# D-GP-HOOK-1) as per the manufacturer's instructions directly below the footing. Leave the upper portion of the ground rod and approval label visible for inspection.

## 3.12 $\Delta$ TRENCHING AND BACKFILLING

- a. **Under no circumstances shall energized primary cables be moved or handled in any way.**
- b. **All proposed cable routing and duct work is subject to written approval by EDTI Customer Engineering Services before construction approval.**
- c. The trench must take the most direct route to the meter base location.

**From:** Babij, Eric <[ebabij@epcor.com](mailto:ebabij@epcor.com)>

**Sent:** Monday, February 23, 2026 3:31:50 p.m.

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**Subject:** RE: Ground plate not encased in concrete

Hi Rob,

Thank you for your patience.

We wanted to ensure all stakeholders had full clarity on this matter. As previously noted, your product meets the same requirements applied to the Dandy installation and is currently CSA certified through.

Based on our review, the product satisfies the inspection requirements outlined in Section 3.11.5 of the Customer Connection Guide.

From an inspection and compliance standpoint, ensure the model number, CSA certification label and connection are installed in a clearly visible, above-ground location and there should be no issues during inspection.

We are in the process of updating our Customer Connection Guide, so please feel free to share this information with your customers as needed.

If you have any questions or require further details, let us know.

Thank you,

Eric

ATLAS TUBE MADE IN CANADA 2.5 X 2.5 X 125 CSA G-40-21-50M Heat # B38098

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21/03/19 06:00

ATLAS TUBE

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CSA G-40-21-50M Heat # B38098

CSA G-40-21-50M Heat # B38098

*Iron Pan*

ATLAS

ATLAS TUBE MADE IN CANADA

X 125

21/03/19