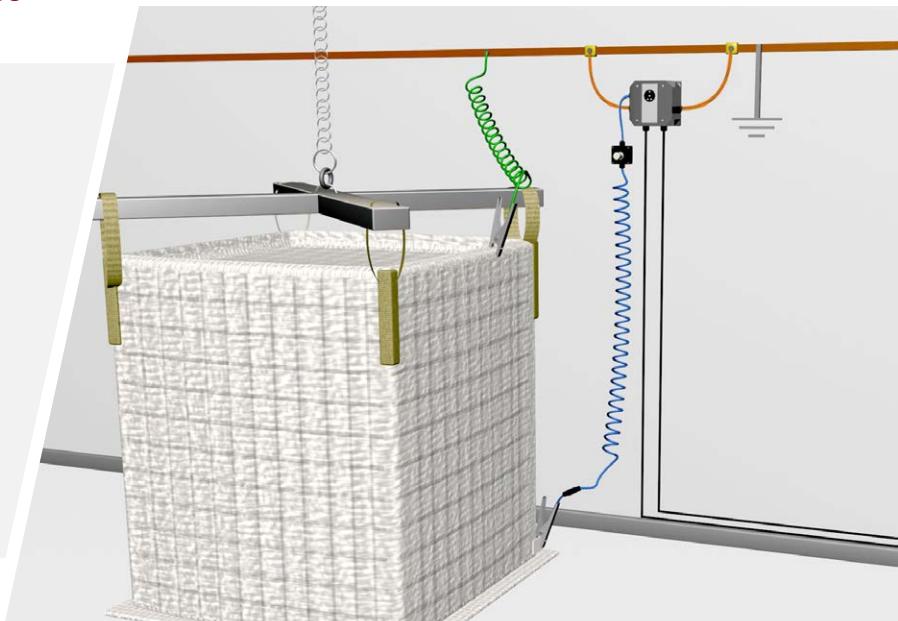


Earth-Rite® II FIBC

Static Grounding Protection for Type C FIBCs



Earth-Rite II FIBC Type C Static Grounding System



Typical Earth-Rite II FIBC installation consisting of two grounding clamps that establish a continuous ground monitoring loop with the site's locally verified true earth ground source.

NFPA 77 "Recommended Practice on Static Electricity" highlights Flexible Intermediate Bulk Containers (FIBC) as being capable of accumulating electrostatic charge during product transfer operations.

NFPA 77 16.6.3 states "FIBCs should be tested in accordance with the requirements and test procedures specified in IEC 61340-4-4* and in accordance with their intended use before being used in hazardous environments."

NFPA 77 also states that Type C FIBC should be grounded during bag filling and emptying operations.

The Earth-Rite® II FIBC is a grounding system for Type C bags that are manufactured in accordance with IEC 61340-4-4. It consists of a grounding system and a pair of grounding clamps.



The Earth-Rite II FIBC can be installed in Zoned / Classified combustible dust atmospheres. If gas and vapour atmospheres are present an Ex(d) / XP, Zone 1 / Class I, Div. 1 system may be specified.

If the resistance through the conductive or static dissipative elements of the Type C bag is less than the required threshold, the ground status indicators switch from red to pulsing green.

It should be noted that the grounding system is not a substitute for the test methods outlined in IEC 61340-4-4. The grounding system indicates that the threshold resistance of the conductive dissipative / components of the bag are in line with the specified resistance range and that a ground loop has been established with the site's locally verified ground source.

The static dissipative performance of the bag is the sole responsibility of the bag manufacturer and the site owner.

* Recommended upper monitoring resistance level:-

- NFPA 77 Recommended Practice on Static Electricity, states that the resistance through a Type C FIBC bag should not exceed 1×10^8 Ohms (100 Meg Ohm).
- IEC 61340-4-4 Electrostatics – Part 4-4: Standard test methods for specific applications – Electrostatic classification of flexible intermediate bulk containers (FIBC), states that the resistance through a Type C FIBC bag should not exceed 1×10^8 Ohms (100 Meg Ohm).

The Earth-Rite II FIBC includes:

- Static Dissipative GRP Enclosure with Intrinsically Safe Monitoring Circuits.
- FIBC Grounding Clamp with single conductor Hytrel® Protected Cable.
- Junction Box with Stowage Pin for stowing FIBC Grounding Clamp.