

DEC-TECHNICAL BULLETIN



Bulletin No: TB040 Version: v.01

Effective Date: 2022-04-07

Subject: **Galvanic Corrosion**

- Product Pre-Installation Installation Repair Maintenance Other
 External Internal Use Internal Use Only

Target Audience: All

Reason for Bulletin: To provide an overview of what galvanic corrosion is and how to guard against it within the Dec-Tec system.

Details:

When two dissimilar metals come in contact with each other, they will initiate an electrochemical process where one metal corrodes in the presence of the other metal called galvanic corrosion. When installing the Dec-Tec system, it is crucial to understand the type of metal used in the installation and the compatibility of one metal to another.

Galvanic effect and Dec-Tec

Dec-Clad Drip Edge is installed at the time of pre-installation at deck edge termination points for the Dec-Tec membrane to be thermally heat welded to create a monolithic watertight system. Dec-Clad Drip Edge is made from PVC being clad to sheet metal. Dec-Tec offers two choices of Dec-Clad metal:

- Galvanized Steel
- Aluminum

Installation of Dec-Clad Drip Edge is done using 1-1/4" to 1-1/2" standard roofing nails staggered at 4" intervals. Refer to the most current **CM-001 Basic Installation Guide – Wood Substrate** to follow recommended installation practices.

How to guard against galvanic corrosion

It is crucial to use the appropriate nail for the appropriate metal for installation as indicated in the table below:

	Aluminum Nails	Galvanized Steel Nails
Galvanized Steel Dec-Clad Drip Edge	✗	✓
Aluminum Dec-Clad Drip Edge	✓	✗

If using dissimilar metals, long term corrosion on the nails or Dec-Clad Drip Edge will migrate into the Dec-Tec membrane causing discoloration and accelerated deterioration. At all times of installation, ensure that metals (i.e., fascia metal) in contact with each other and Dec-Tec membrane are compatible to avoid the galvanic effect.

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