

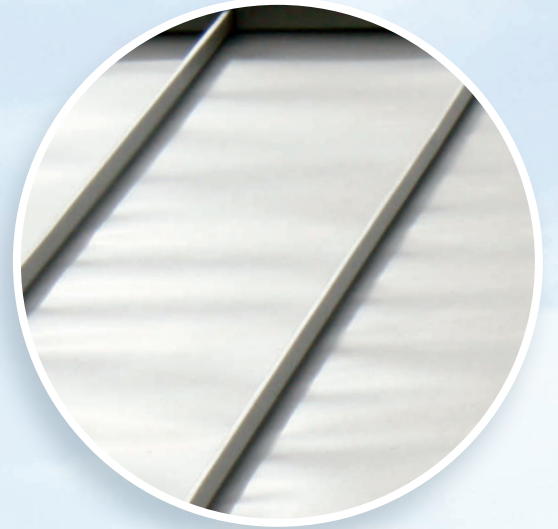
What you need to know about OIL CANNING

METAL ROOF CONSIDERATIONS AND RECOMMENDATIONS

WHAT IS OIL CANNING?

Oil Canning is a naturally occurring phenomenon that affects all types of metal. Visually, Oil Canning appears as “waviness” or dimple-like impressions on the metal’s surface. While all metal roof panels will do this at some level, the following factors will increase the visibility of Oil Canning on a roof:

- Installation Over Uneven Roof Decking/Clips
- Improper Handling/Storage of Panels
- Over Tightening of the Fasteners/Panels
- Thermal Expansion and Contraction



WHAT IS THE SOLUTION?

Although Oil Canning naturally occurs in all metal panels, it can be greatly minimized by employing proper installation techniques and by selecting a metal roof panel style that has striations. To further reduce Oil Canning, we recommend the use of Backer Rod under panels.

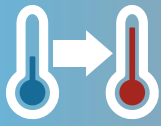


For a complete study on all of the factors that play into Oil Canning please visit www.GulfCoastSupply.com/Oil-Canning

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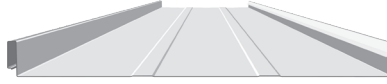
OIL CANNING & TEMPERATURE



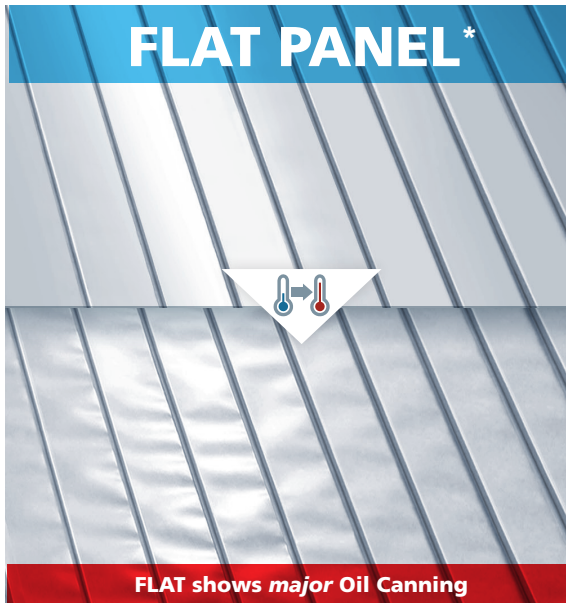
THERMAL EXPANSION AND CONTRACTION

A common cause of Oil Canning is thermal expansion and contraction. This type of Oil Canning occurs when metal roof panels are heated and cooled. The most visible times of panel stress from this type of expansion and contraction generally occur during the coolest and warmest parts of the day.

REDUCE THE EFFECTS OF OIL CANNING ON YOUR PROJECT WHEN YOU SELECT A STRIATED PANEL OPTION AS SHOWN BELOW.



FLAT PANEL *



FLAT shows *major* Oil Canning

PROS

- Free of Interior Ribs/Undulations

CONS

- Greatest Risk for Oil Canning
- Oil Canning is Visually Disruptive

RECOMMENDATIONS:

The use of Backer Rod under panels helps to reduce Oil Canning.



RIBBED PANEL *



RIBBED shows *some* Oil Canning

PROS

- Stiffening Ribs Reduce Oil Canning
- Dimensional Look
- Strengthens Panel
- No Additional Cost

CONS

- Does Not Eliminate Oil Canning

OPTIONS INCLUDE:

- Square or Rounded Rib Design
- Double or Quad per Panel

STRIATED PANEL *



STRIATION shows *the least* Oil Canning

PROS

- Shows the Least Oil Canning
- Architectural Design Appeal
- Strongest Panel Type
- No Additional Cost
- Diffuses Light, Reduces Glare

ALWAYS REMEMBER...
INSTALL YOUR METAL PANELS ON AN EVEN SURFACE TO HELP REDUCE OIL CANNING



ALL METAL WILL OIL CAN, ESPECIALLY ALUMINUM. **WE RECOMMEND STRIATIONS** TO BEST REDUCE THE EFFECTS OF OIL CANNING.

*PHOTOS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL CONDITIONS MAY VARY.



METAL ROOFING PRODUCTS



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