

## INSTRUCTION FOR INSTALLING LONG DARK-COLOURED PANELS

## SYSTEM OF VERTICALLY INSTALLED ARCHITECTURAL PANELS

## **Objectives**

Provide guidance to installers to minimize or eliminate the risk of panels warping under the impact of thermal expansion caused by sunlight and large variations in outside temperature.

## **IMPORTANT STEPS**

- 1. Check the straightness and alignment of the panel supporting structures (girts). Misalignment can result in the panel being installed with flexural pre-stressing on the exterior facing, causing oil canning after or during installation.
- 2. There must be ½" of panel clearance around each building opening to accommodate thermal expansion. This space must be filled with spray polyurethane-foam insulation.
- 3. Place a strip of ½"-thick polyethylene to the base of a vertically installed panel to act as a thermal-expansion joint. One-half-inch clearance must be left at the top and filled with insulation.
- 4. In the case of Norex and Noroc panels, drill a ½" hole through the exterior facings (and only through these facings) of the panels where the screws must be inserted to allow for expansion.
- 5. See reference: Screw and girt selection guide NAI-IC-10.10



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