The Solar Series™
Installation Overview for Framed Shade Structures

- 4-step installation process
- All structure elements, panels, and hardware system provided
- All panels powdercoated on both sides
- All hardware powdercoated
- All steel powdercoated with zinc primer
- No welding or cutting required
- Detailed installation instructions provided upon purchase

**STEP 1: INSTALL COLUMNS**

Attach reinforced bolt plate to footing with anchor bolts and finish concrete above bolt plate (footer, anchor bolts, and finish concrete provided by other suppliers)
The Solar Series™ INSTALLATION OVERVIEW FOR FRAMED SHADE STRUCTURES

STEP 2: INSTALL BEAMS

Column cap secured in place with set screw

Steel beams attached to columns using concealed bolted connection

Shown as a cut-away image to see how bolts are assembled
STEP 3: INSTALL PURLINS

- Tube steel beam
- Purlins attached to beams with structural expansion bolts (2X per end)
- Tube steel purlin
- Purlins
The Solar Series™  INSTALLATION OVERVIEW FOR FRAMED SHADE STRUCTURES

STEP 4: INSTALL PANELS

Hex nuts on threaded studs on sides

PFL200 bracket
Hex nuts
PDH metal screw

PDH metal screw
Hex nuts
PFL400 bracket