

**Screws provided with Base & Cap System to attach Base to Frame and Cap to Base.** Specify wood, pressure treated wood, steel or aluminum frame when ordering.

**- Notes for screws going thru the body and edges of the sheet & general notes.**

**Standard Wood** receives our #10 painted wood screws with 3/4" washers, when going thru the body and edges of the sheet. These screws are hardened carbon steel with a special Organic Polymer Coating. This screw is appropriate for all species of wood. The pressure treated ACQ chemical will corrode the screw and failure may occur, so we do not recommend using ACQ pressure treated wood if possible. For maximum frame & fastener life use redwood, cedar or cypress. Avoid sap wood.

**Most pressure treated lumber uses ACQ chemicals.** ACQ lumber will corrode standard fasteners. #300 series - 18.8 stainless steel screws should be used with ACQ Treated Lumber. Our present option is separate, unpainted and unassembled, pan head - 300 series - 18.8 stainless steel screws and separate stainless steel washers. These screws are softer and one has to set carefully or the screw will snap. Screws are square drive, for superior driving of screw, eliminating stripping of screw head. Square drivers are provided Free with each bag. Cost is twice the cost of our standard steel screw assemblies, and are sold in the same 250 bag quantity. These screws are provided with Base & Cap System to attach Base to All wood frames, ensuring maximum service life, even in harsh conditions

**Steel Frames** require self-drilling screws. Screws provided to attach the Base to the frame are stainless steel, with a type 3 point. These screws are fine for attaching to steel or aluminum frames up to .20" thick.

Our standard painted self drilling screws, with assembled 3/4" painted washers, are carbon steel with a zinc plating. These screws have a type 3 point and are fine for attaching to steel frames up to .20" thick. Call if steel is thicker. Thick steel requires a type 5 point, which has a longer drill point for thicker steel.

**Aluminum Frames** require self-drilling screws. Screws provided to attach the Base to the frame are stainless steel, with a type 3 point. These screws are fine for attaching to aluminum frames up to .20" thick.

Our standard painted self drilling screws, with 3/4" washers, are carbon steel and should not be used with aluminum, as corrosion will occur and failure may result. The best option is separate, unpainted and unassembled, hex head - 410 series stainless steel screws and separate stainless steel washers. These screws are hard and will effectively attach to aluminum frames up to .20" thick. Cost is twice the cost of our standard steel screw assemblies, and are sold in the same 250 bag quantity. Call if aluminum is thicker.

**Screws to hold on U-Profile also provided.** Use as needed. The locations required include Eave Detail and in places where the pressure of the polycarbonate against the frame will not hold the U-Profile on, such as top edge of patio cover that is not attached to a building. Long leg of U faces exterior. Place screws close to the tip of the long leg and into polycarbonate, pinning the U-Profile to the sheet. This exact placement will ensure secure attachment to sheet as ice slides off edge of sheet.

**Screw counting and attaching procedure for screws attached along perimeter of roof & walls, thru Corners and thru Flashing.**

- **#10 x 2" wood or #12 x 1-1/2" self-drilling metal screws** with 3/4" sealing washers used when screwing through 8mm, 10mm & 16mm polycarbonate.
- **#10 x 2-1/2" wood or #12 x 2" self-drilling metal screws** with 3/4" sealing washers used when screwing through 25mm polycarbonate.

## **Roof**

- Use 1 screw per foot along the top edge of roof slope. Set screw through ridge flashing and into purlin or blocking below.
- Use 1 screw per foot along the lower edge of sheet, position between Base & Cap.
- Corner Trim (use 1 screw 2" from ends and every 12" along each leg of Corner).

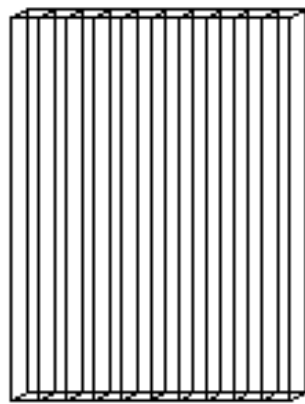
## **Walls**

- Corner Trim (use 1 screw 2" from ends and every 12" along each leg of Corner).
- On side or front walls, use 1 screw per foot along the top & bottom edge of sheet, position between Base & Cap. Screw goes through sheet and into girts or top & bottom plates.
- On gable ends, with Corner Trim at top of sheet, place 1 screw per foot along the bottom edge of sheet, position between Base & Cap. Screw goes through sheet and into girts or bottom plates. See above for screw placement in Corner Trim.

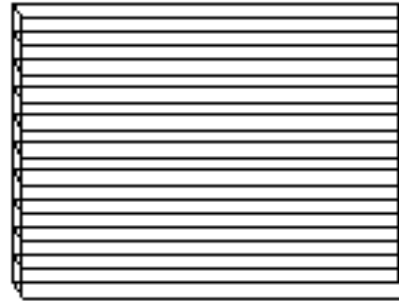
**In body of sheet** see Position & Attach below.

**Around Doors, Fans, Shutters** 1 screw every 12" around perimeter of these items as needed.

**Base screws** are attached to roof purlins and wall girts as laid out in your design. If attaching to rafters position 1" from ends and about every 12" on-center. Cap screws are positioned 1-1-2" from ends and about every 12" on-center. If installation is in a hurricane refer to Page 5 of the Framing Guide or Page 14 of the Installation Guide.



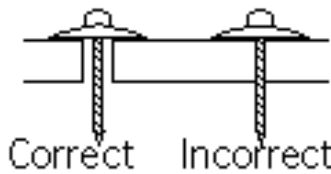
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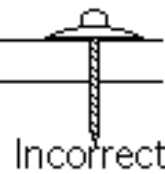
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### Sheet Positioning

Install sheet with ribs running vertically on walls and with the slope on roof. Ribs run parallel to the sheet length.



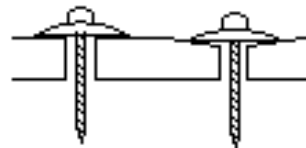
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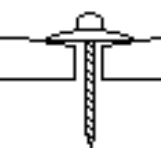
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Predrill 1/4" holes in polycarbonate.

### Screw Attachment

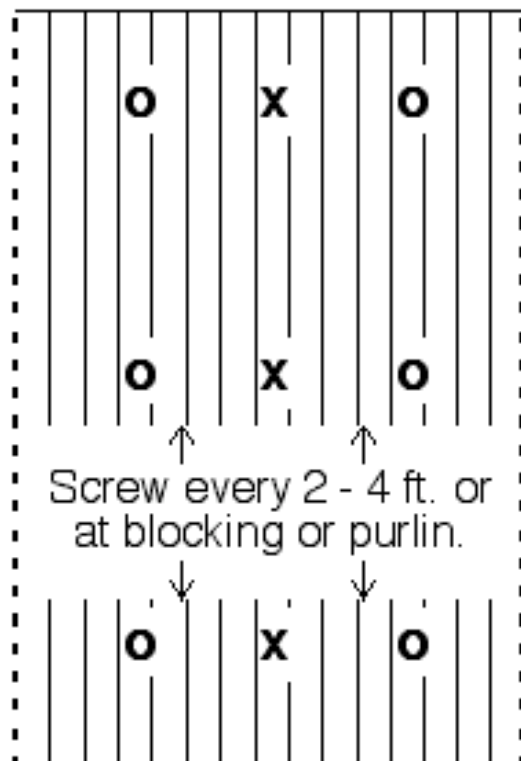


Correct



Incorrect

Fasten screws tight, don't dimple sheet.



### Mid-Sheet Fastening

X = Mid-Sheet fasteners for 48" sheet

O = Mid-Sheet fasteners for 72" sheet

Dashed Line = Narrow Profile Cap