



## Cycle Station

The Dero Cycle Station provides high-capacity, covered bike parking for bicycle commuters. With a high roof and open platform, the Dero Cycle Station allows bike corrals, vertical, or two-tiered bike racks configured to meet your specific needs. Optional side and back panels are available for additional protection.



# Cycle Station



## FINISH OPTIONS

### Galvanized

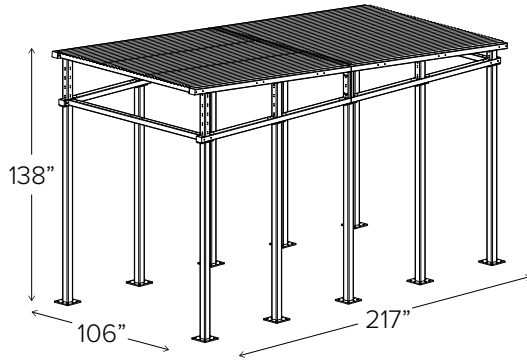


### Powder Coat

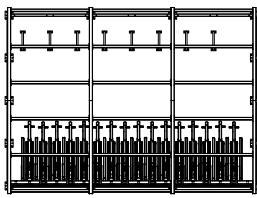
 White	 Black	 Deep Red RAL 3003	 Yellow RAL 1023
 CNH Bright Yellow	 Orange RAL 2004	 Beige RAL 1001	 Hunter Green RAL 6005
 Light Green RAL 6018	 Green RAL 6016	 Sky Blue RAL 5015	 Blue RAL 5005
 Dark Purple	 Flat Black	 Wine Red RAL 3005	 Iron Gray RAL 7011
 Light Gray RAL 7042	 Silver RAL 9007	 Sepia Brown RAL 8014	 Bronze

## SOLAR POWERED LIGHTING AVAILABLE

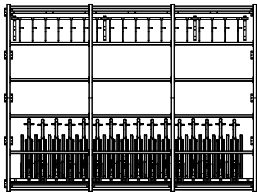




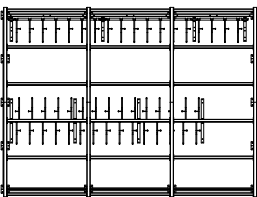
**Sample capacities for a 3 unit shelter**



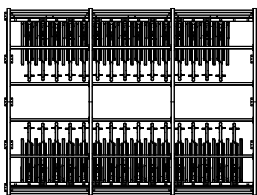
Hoop Racks and Dero Deckers  
48 Bikes



Ultra Space Saver Squared and Dero Deckers  
51 Bikes



Ultra Space Savers  
48 Bikes



Dero Deckers  
64 Bikes

Dero Shelters can be used in a modular fashion (shared uprights) however, when used in this manner, please consult a Dero Bike Rack sales associate for layout, as the rack spacing and bike capacity can change!

**CAPACITY**

See diagrams below and to the left

**MATERIALS**

- Uprights:** 4" x 3/16" square tube.
- Feet:** 1/2" plate
- Roof Truss:** 4" x 3" x 3/16" square tube
- Roof Purlins:** 3" x 1/8" square tube
- Roof Panels:** 24g Type S deck galvanized steel
- Panels:** 1/4" clear polycarbonate with 1.77" square aluminum framing
- Panels:** 2" x 3/16" steel wire mesh with 2" steel framing

**FINISHES**

- Galvanized**  
An after fabrication hot dipped galvanized finish is our standard option.
- Powder Coat**  
Our powder coat finish assures a high level of adhesion and durability by following these steps:  
  1. Sandblast
  2. Epoxy primer electrostatically applied
  3. Final thick TGIC polyester powder coat

**MOUNT OPTIONS**

**Surface Only**  
It is the responsibility of the installer to ensure that all base materials into which the shelter will be installed can support the rack and will not be damaged by any required installation procedures. See structural drawings for details.

**SETBACKS**

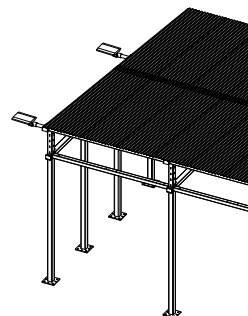
Consult local building codes for acceptable setbacks and placement.

**LOAD DATA**

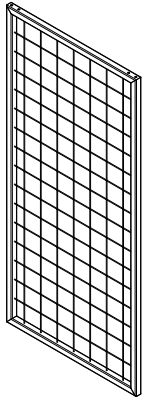
- Dead Load:** self weight of structure
- Live Load:** 40 psf
- Wind Load:** 90 mph exposure B
- Seismic Load:** moderate to high
- Footing:** see page 4
- Anchors:** 5/8" x 41/2" embed Simpson Strong-Bolt 2 wedge anchors

**LIGHTING**

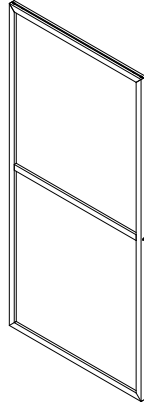
- Solar powered lights are available for an additional charge



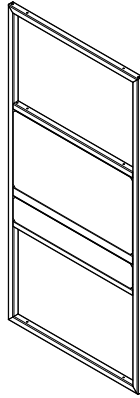




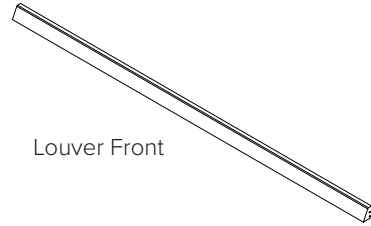
Wire Mesh Panel



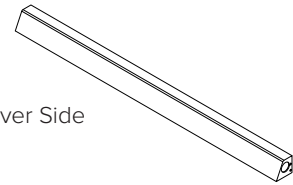
Polycarbonate Panel



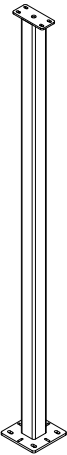
Door



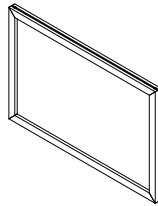
Louver Front



Louver Side



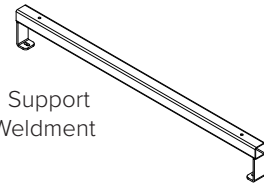
Upright  
Weldment



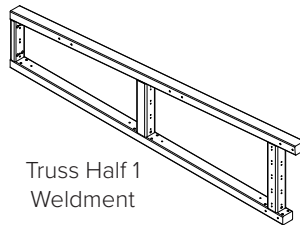
Door Polycarbonate  
Panel



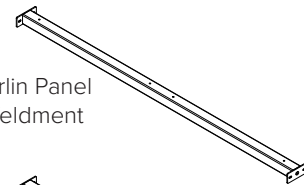
Panel Support  
Front Weldment



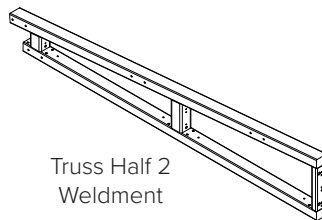
Panel Support  
Side Weldment



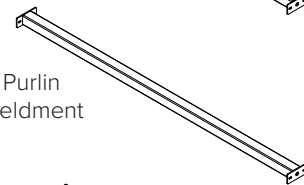
Truss Half 1  
Weldment



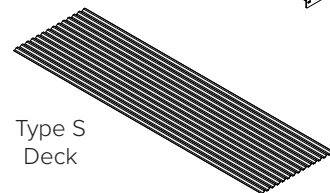
Purlin Panel  
Weldment



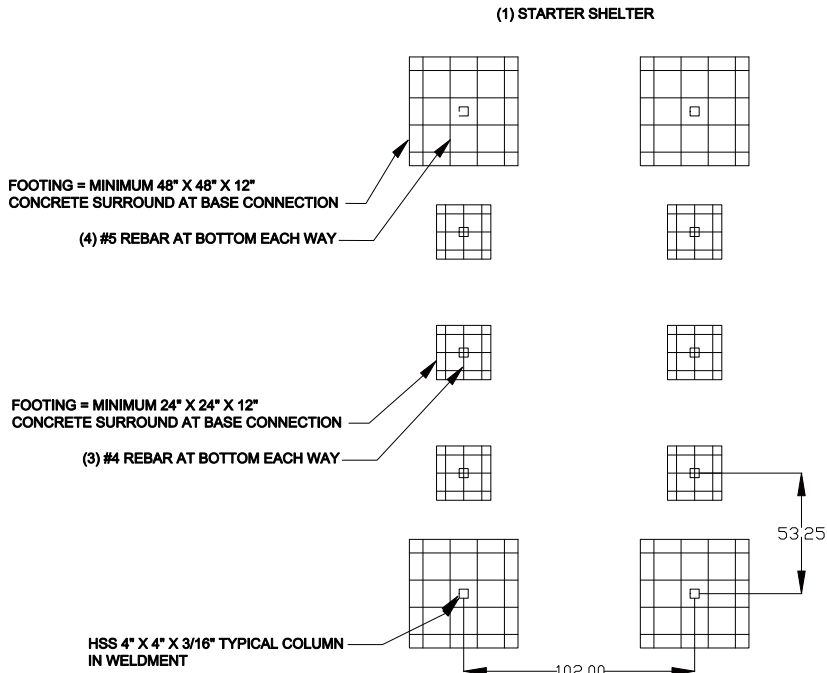
Truss Half 2  
Weldment



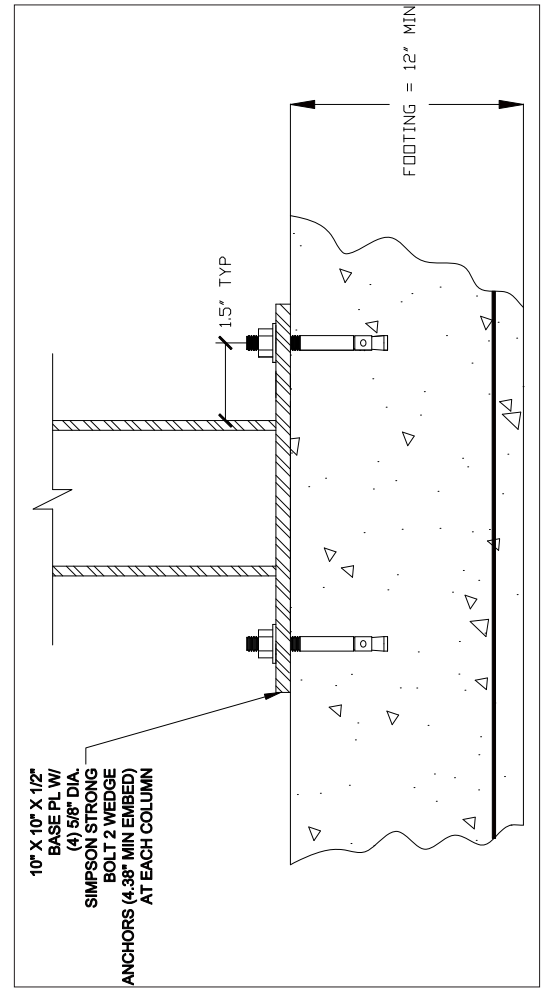
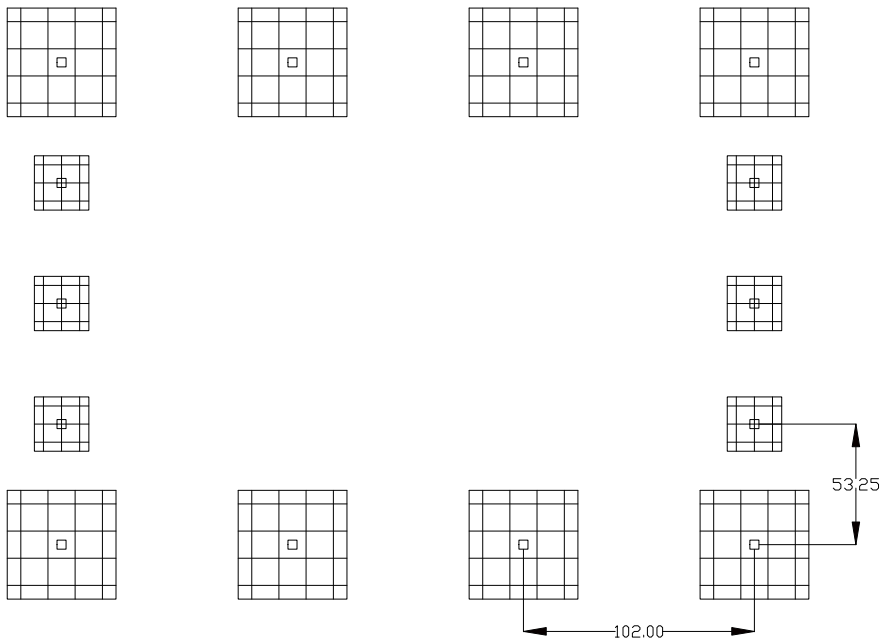
Purlin  
Weldment



Type S  
Deck



**EXAMPLE**  
**(1) STARTER SHELTER**  
**(2) ADD-ON SHELTERS**



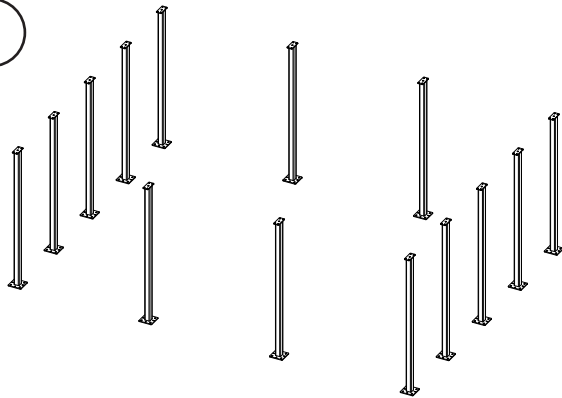


## TOOLS NEEDED

Hammer Drill  
 Masonry Bits: 3/8", 5/8"  
 Large Hammer  
 Level  
 Chalk Line  
 Tape Measure  
 Tall Ladder  
 Material Lift or Forklift

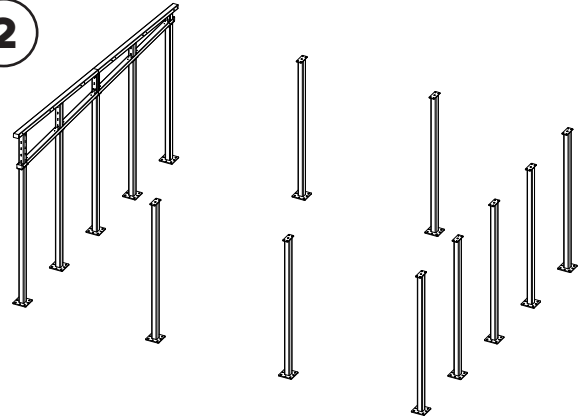
Wrenches: 7/16", 1/2", 9/16", 3/4", 15/16", 1 1/8", 13mm  
 Socket Wrench with Sockets: 7/16", 1/2", 9/16", 3/4",  
 15/16", 1 1/8"  
 Spud Wrench  
 Drill  
 Drill Bit 7/32"  
 Drive Socket 5/16"  
 Driver Torx T30

**1**



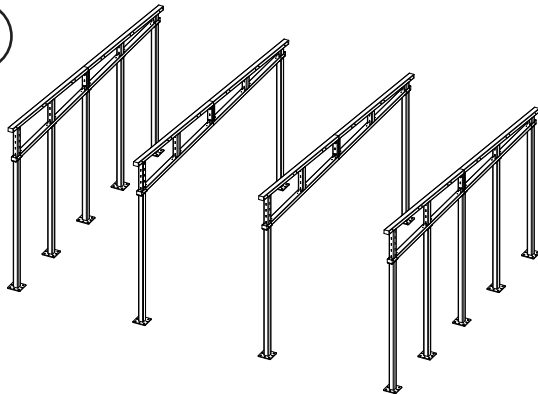
Place uprights on concrete pad over footings (see footing drawing). Confirm all uprights are properly spaced and square. Using the upright foot as a template, drill (4) 5/8" diameter x 6" holes at each upright. Install wedge anchors with nuts finger-tight. See shelter assembly drawing for specific upright placement locations.

**2**



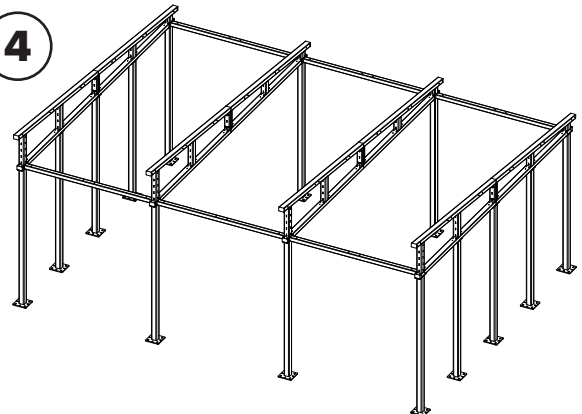
Lift both truss halves into place and fasten to uprights with (4) 1/2" x 4.5" bolts, (4) lock washers, and (4) nuts at each upright. Leave finger-tight. Fasten truss halves to each other with (4) 3/4" x 5.5" bolts, (8) lock washers, and (4) nuts each. Fully tighten.

**3**



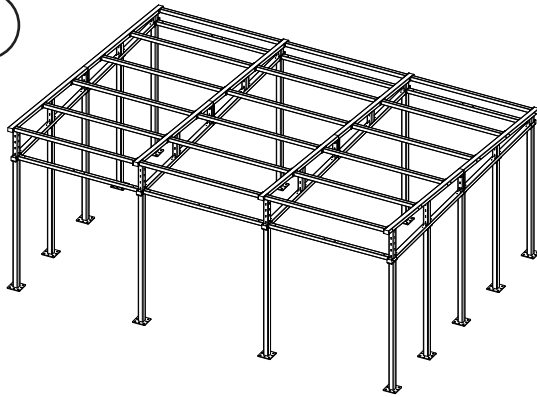
Install the remaining trusses. For middle trusses, fasten truss halves to each other before lifting.

**4**

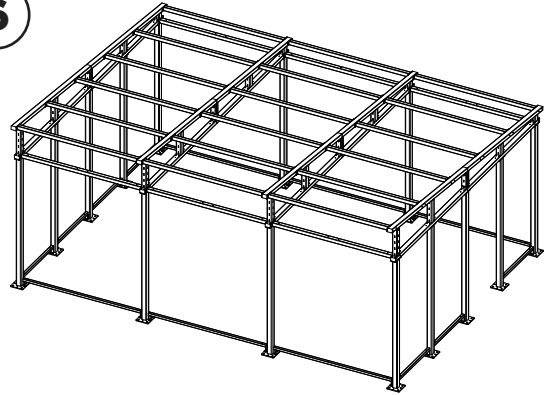


For shelters with side panels, install the purlins for panels (these are the same as the other purlins but with (4) holes through the tube) with (4) 3/8" x 5.5" bolts, (4) washers, (4) lock washers, and (4) nuts each. Leave finger-tight.

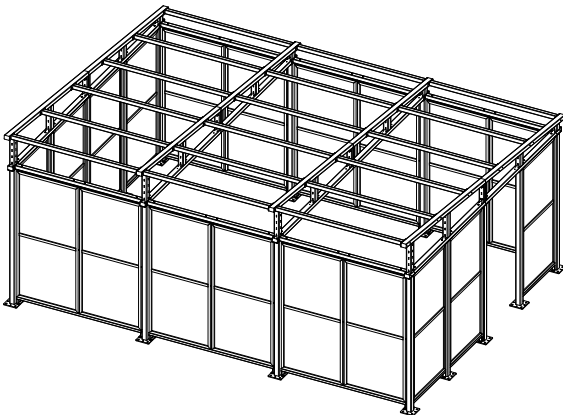
For shelters without side panels, these purlins are the same as all other purlins.

**5**


Install the purlins with (4) 3/8" x 5.5" bolts, (4) washers, (4) lock washers, and (4) nuts each. Fully tighten all purlins.

**6**


For shelters with side panels, install the front and side panel supports between every upright, except where the door will be installed. Align slots in the panel support with the slots in the upright, drill 3/8" diameter holes, and fasten with 3/8" wedge anchors with nuts finger-tight.

**7**


For polycarbonate panels, install the panels with (4) 8mm bolts and (4) lock washers. (2) 130mm bolts on top and (2) 65mm bolts on the bottom. The bolts will be received by square nuts that slide into the panel grooves. The gap on top of the panel will be filled with (2) 1.25" aluminum spacers and several washers if needed. The uprights and panel supports may be slightly moved in order to get the panels as square as possible.

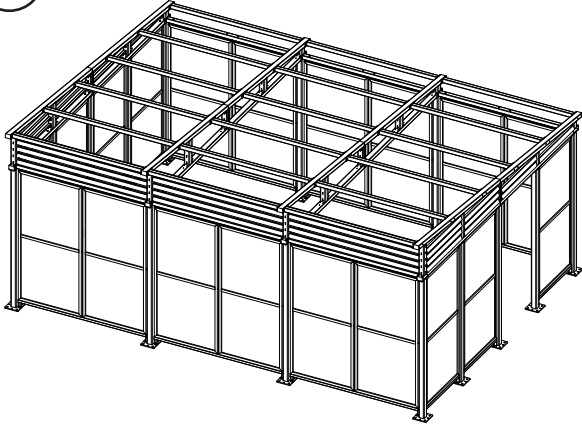
For wire mesh panels, install the panels with (4) 5/16" bolts and (4) lock washers. (2) 5.5" bolts on top and (2) 3" bolts on the bottom. The bolts will be received by rivet nuts in the panels. The gap on top of the panel will be filled with (2) 1.25" aluminum spacers and several washers if needed.

**8**

Once all the panels are properly placed, tighten all the upright anchors and bolts attaching the trusses.

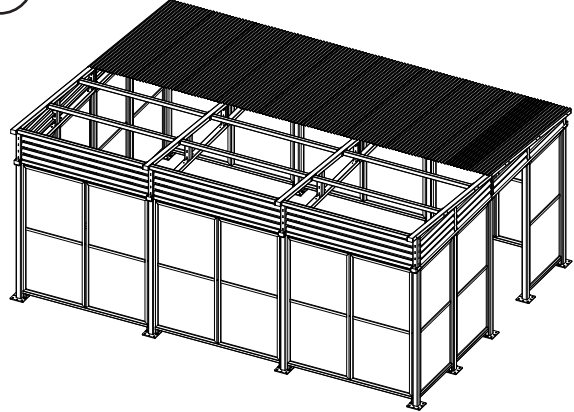


9



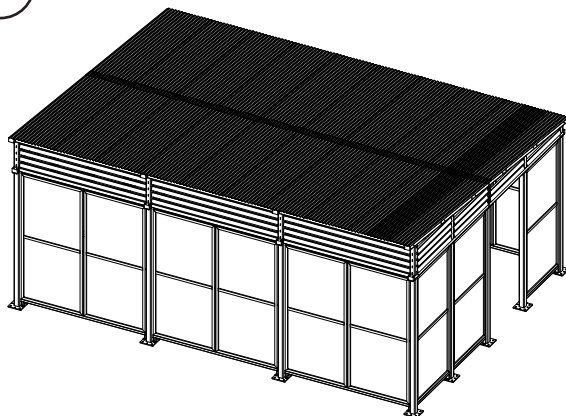
Install front and side louvers with (4)  $\frac{1}{4}$ " x 5" bolts, (4) washers, (4) lock washers, and (4) nuts. Tighten all.

10



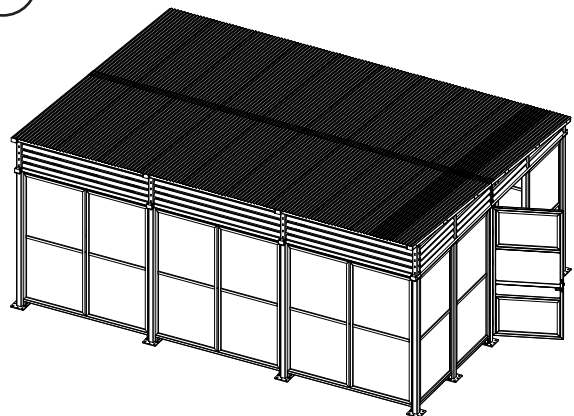
Place the first row of type S decks and fasten with (6) self-drilling screws each to the purlins and trusses. Each deck will provide 30" of coverage; the last deck will overlap more.

11



Place the second row of type S decks and fasten with (6) self-drilling screws each.

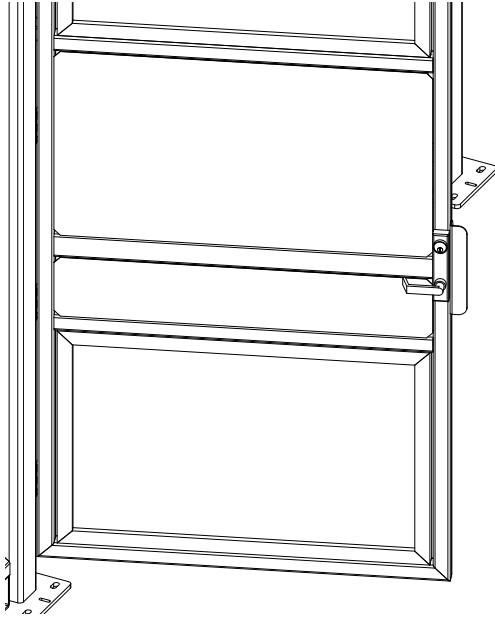
12



Attach door with (4) hinges and (8)  $\frac{1}{4}$ " x 1" thread-cutting screws each. A  $\frac{7}{32}$ " pilot hole will need to be drilled for each thread-cutting screw. Lubricate each thread-cutting screw before installing. The door bottom should be 4.5" off the ground and the door front should be flush with the uprights. See individual product instructions to install door trim, crash bar, door closer.



**13**



Install strike guard with (4) self-drilling screws. Door should close just enough to allow the latch to engage the strike.

**14**

See shelter assembly drawing for specific bike rack placement locations.