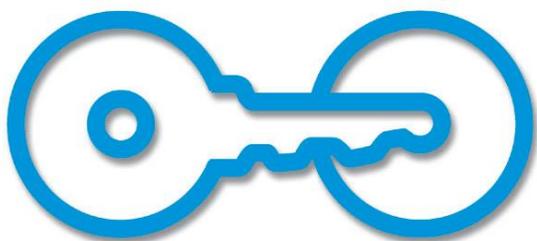




# Cycle Station



The Cycle Station provides high-capacity, covered bike parking for bicycle commuters. With a high roof and open platform, the Cycle Station allows traditional, vertical, or two-tiered bike racks configured to meet your specific needs. The silver galvanized roof reflects sunlight, minimizing heat absorption to the earth. Optional polycarbonate or wire mesh side and back panels provide additional protection while enhancing aesthetics. Modular construction makes the Cycle Station a flexible and cost-effective choice for your biggest bike parking projects.



**American Bicycle Security Company**

P.O. Box 7359

Ventura, CA 93006

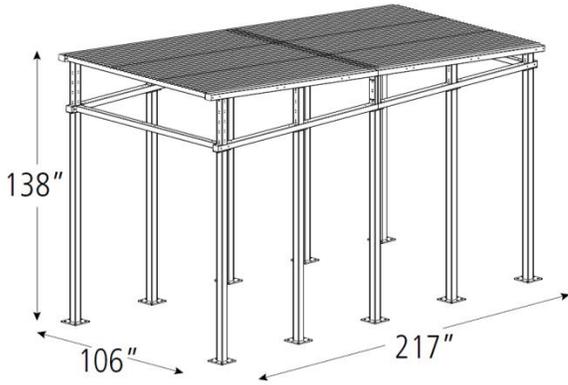
Ph: (800) 245-3723 or (805) 933-3688

Fax: (805) 933-1865

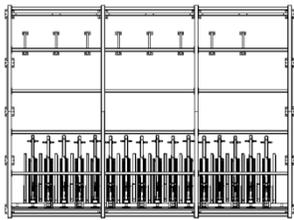
[www.ameribike.com](http://www.ameribike.com)

Email: [turtle@ameribike.com](mailto:turtle@ameribike.com)

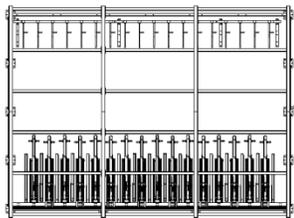
# Cycle Station



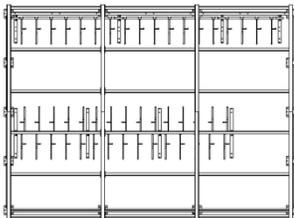
Sample layouts using 3 Cycle Station Units:



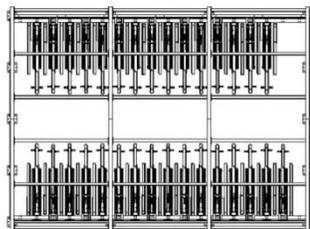
**Hoop Racks and Dero Deckers**  
39 Bikes



**Ultra Space Savers and Dero Deckers**  
51 Bikes



**Ultra Space Savers**  
48 Bikes



**Dero Deckers**  
64 Bikes

**Product** Cycle Station  
**Capacity** See diagrams below and to 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** Standard options: Galvanized



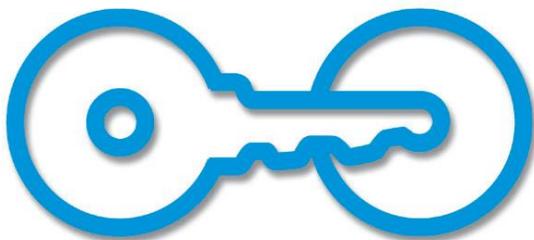
Powder Coated

RAL 9005	Flat Black	RAL 9003	RAL 2004	RAL 1023	Bright Yellow
RAL 6016	RAL 6018	RAL 6005	RAL 5005	RAL 5015	Purple
RAL 7011	RAL 7042	RAL 9007	RAL 1001	RAL 8014	Bronze
RAL 3003	RAL 3005				

**Installation Methods** **Surface Mount.** 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..

**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  
 Anchor bolt = 5/8" x 4 1/2" embed Simpson Strong-Bolt 2 wedge anchors

**\*The Cycle Station can be used in a modular fashion (shared uprights) however, when used in this manner, please call for layout, as the rack spacing and bike capacity can change!**



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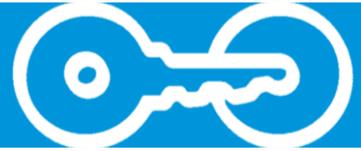
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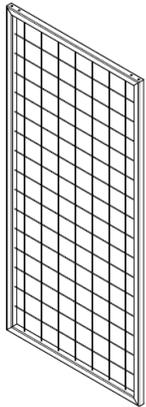
Email: [turtle@ameribike.com](mailto:turtle@ameribike.com)



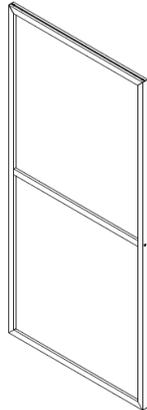
### Tools needed for Installation:

Hammer Drill  
 Masonry Bits:  $\frac{3}{8}$ " ,  $\frac{5}{8}$ "  
 Large Hammer  
 Level  
 Chalk Line  
 Tape Measure  
 Tall Ladder  
 Material Lift or Forklift

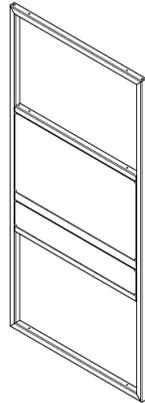
Wrenches:  $\frac{7}{16}$ " ,  $\frac{1}{2}$ " ,  $\frac{9}{16}$ " ,  $\frac{3}{4}$ " ,  $\frac{15}{16}$ " ,  $1 \frac{1}{8}$ " , 13mm  
 Socket Wrench with Sockets:  $\frac{7}{16}$ " ,  $\frac{1}{2}$ " ,  $\frac{9}{16}$ " ,  $\frac{3}{4}$ " ,  $\frac{15}{16}$ " ,  $1 \frac{1}{8}$ "  
 Spud Wrench  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



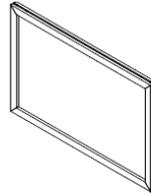
Wire Mesh Panel



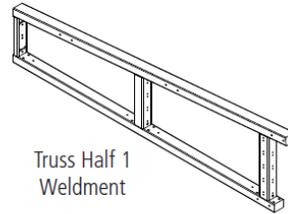
Polycarbonate Panel



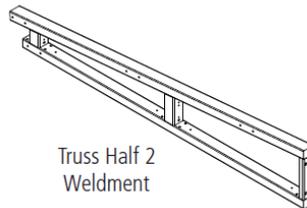
Door



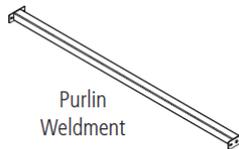
Door Polycarbonate Panel



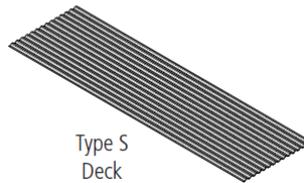
Truss Half 1 Weldment



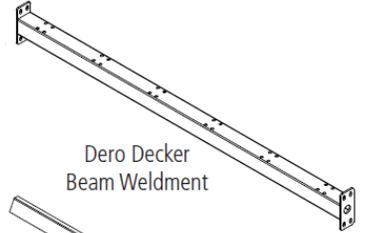
Truss Half 2 Weldment



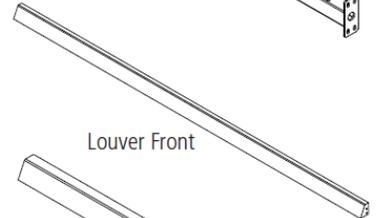
Purlin Weldment



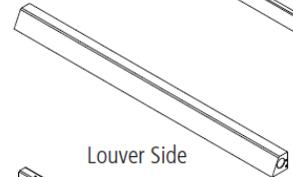
Type S Deck



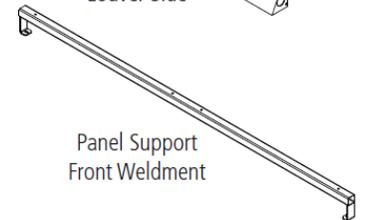
Dero Decker Beam Weldment



Louver Front



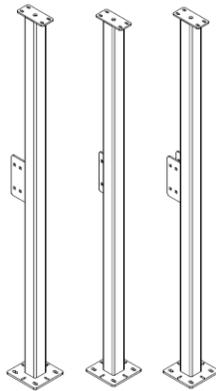
Louver Side



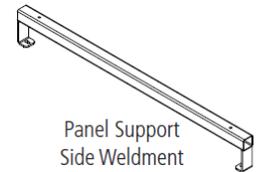
Panel Support Front Weldment



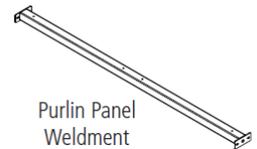
Upright Weldment



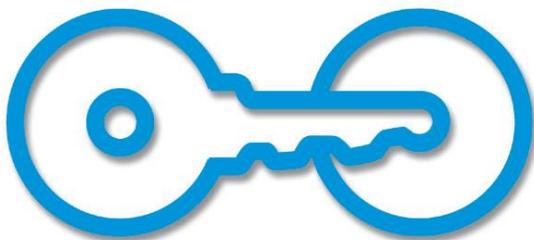
Upright Dero Decker Weldments



Panel Support Side Weldment



Purlin Panel Weldment



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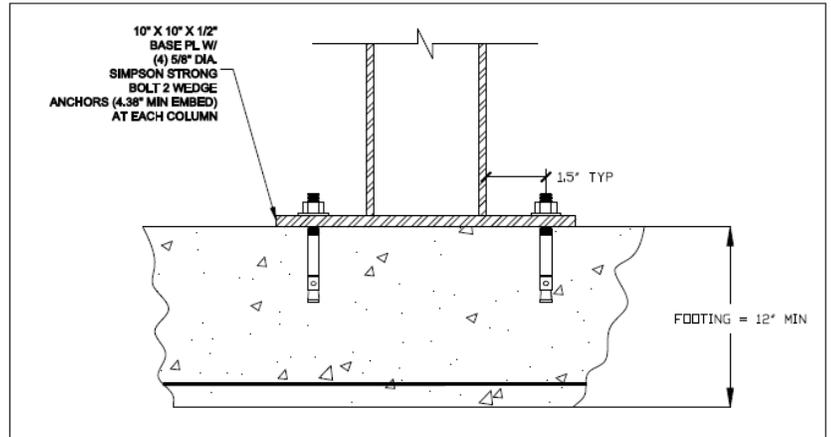
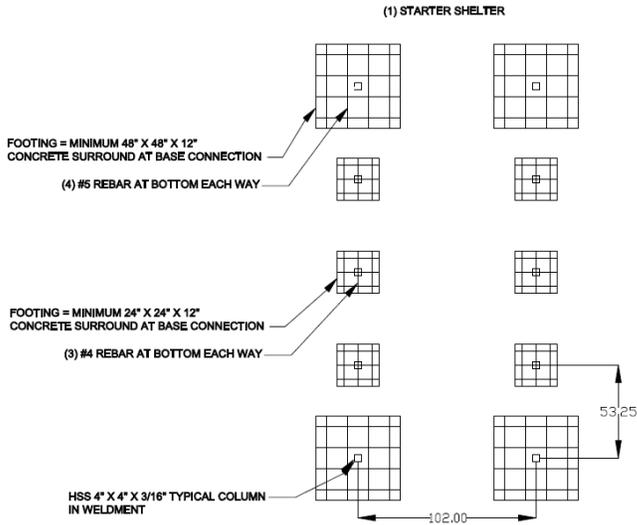
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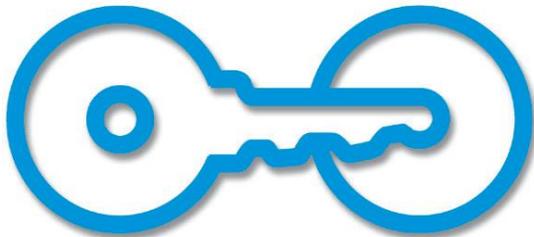
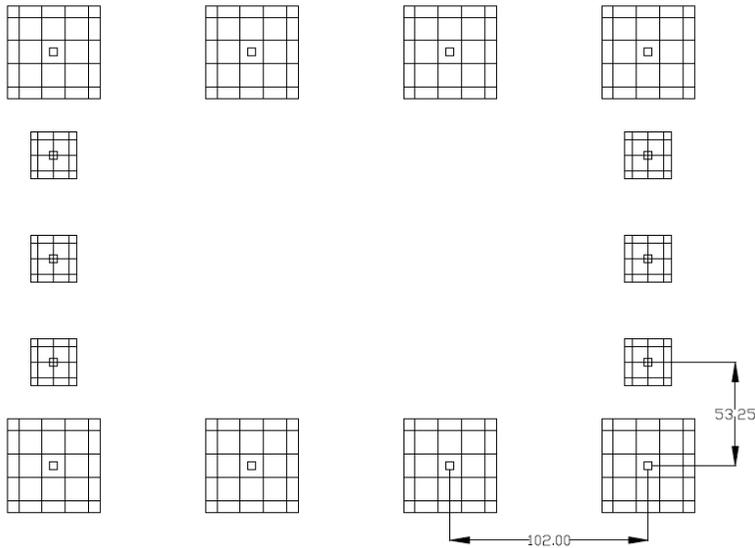
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**EXAMPLE**  
(1) STARTER SHELTER  
(2) ADD-ON SHELTERS



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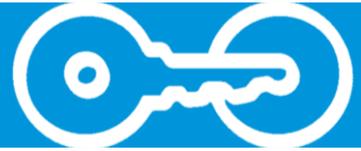
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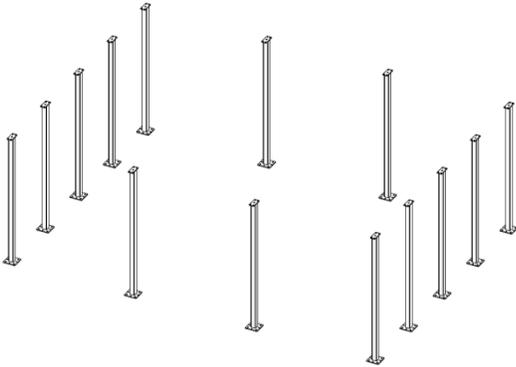
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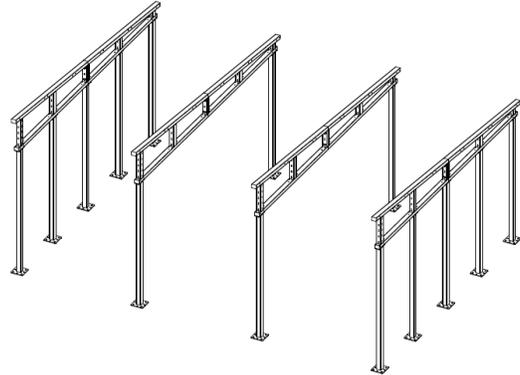
Email: [turtle@ameribike.com](mailto:turtle@ameribike.com)



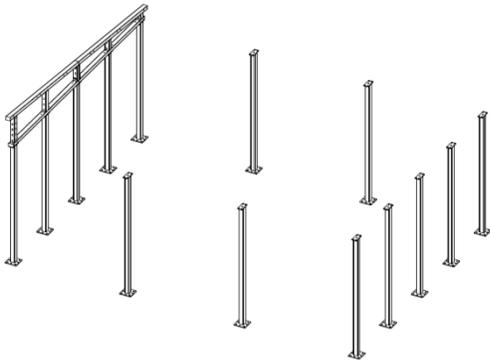
1. Place uprights on concrete pad over footings (see footing drawing). Confirm all uprights are properly spaced and square. Using the upright foot as a template, drill (4)  $\frac{5}{8}$ " diameter 2 x 6" holes at each upright. Install wedge anchors with nuts finger-tight. See shelter assembly drawing for specific upright placement locations.



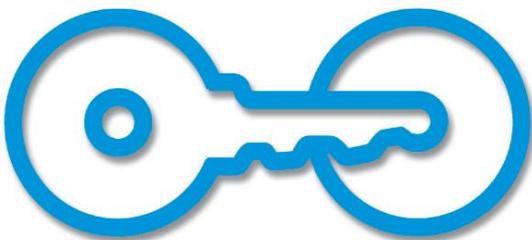
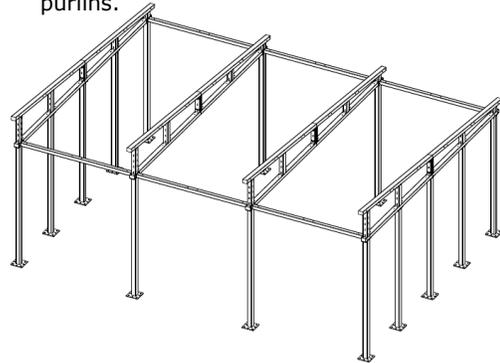
3. Install the remaining trusses. For middle trusses, fasten truss halves to each other before lifting



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

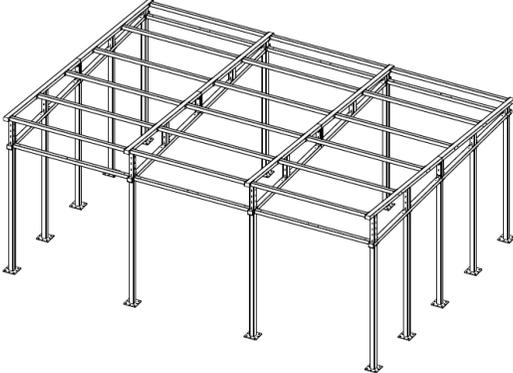


4. For shelters with side panels, install the purlins for panels (these are the same as the other purlins but with (4) holes through the tube) with (4)  $\frac{3}{8}$ " x 5.5" bolts, (4) washers, (4) lock washers, and (4) nuts each. Leave finger-tight. For shelters without side panels, these purlins are the same as all other purlins.





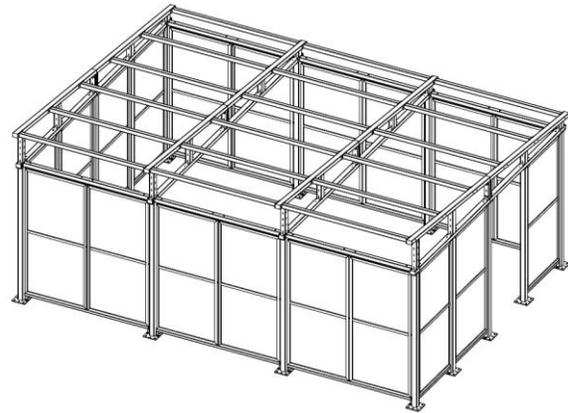
5. Install the purlins with (4)  $\frac{3}{8}$ " x 5.5" bolts, (4) washers, (4) lock washers, and (4) nuts each. Fully tighten all purlins.



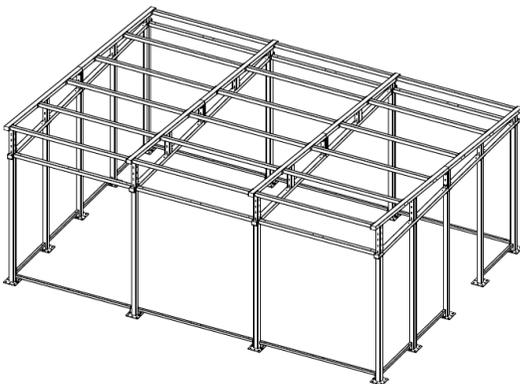
8. For polycarbonate panels, install the panels with (4) 8mm bolts and (4) lock washers. (2) 130mm bolts on top and (2) 65mm bolts on the bottom. The bolts will be received by square nuts that slide into the panel grooves. The gap on top of the panel will be filled with (2) 1.25" aluminum spacers and 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)  $\frac{5}{16}$ " 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.

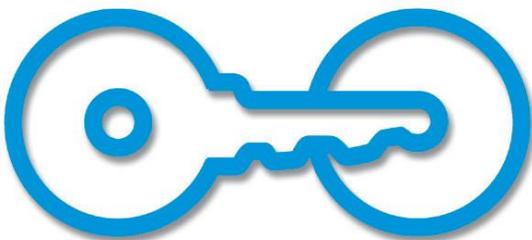
6. For shelters with Dero Decker racks, install the DD beams with (8)  $\frac{5}{8}$ " x 2" carriage bolts, (8) lock washers, and (8) nuts each. Leave finger-tight. Carriage bolts at the end of the shelter should have the heads facing out. See shelter assembly drawing for specific DD beam placement locations.



7. 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  $\frac{3}{8}$ " diameter holes, and fasten with  $\frac{3}{8}$ " wedge anchors with nuts finger-tight.



9. Once all the panels are properly placed, tighten all the upright anchors and bolts attaching the trusses. The carriage bolts attaching the DD beams can also be tightened.



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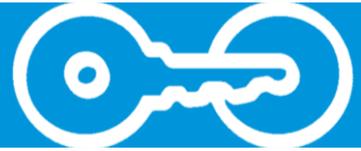
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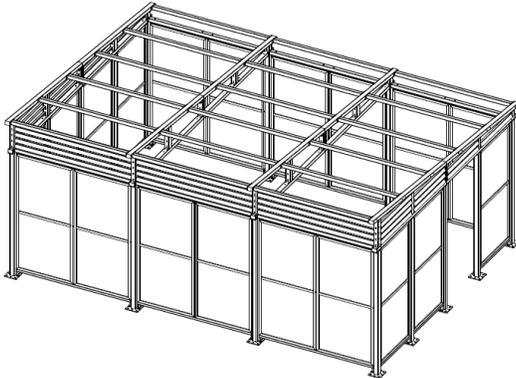
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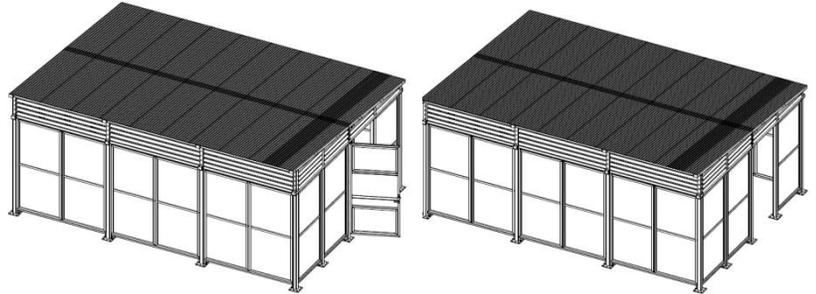
Email: [turtle@ameribike.com](mailto:turtle@ameribike.com)



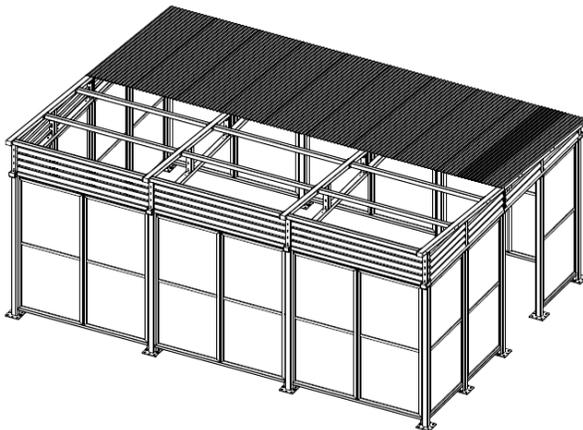
10. Install front and side louvers with (4) ¼" x 5" bolts, (4) washers, (4) lock washers, and (4) nuts. Tighten all.



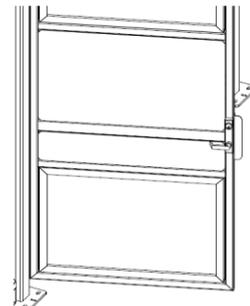
12. Attach door with (4) hinges and (8) ¼" x 1" thread-cutting screws each. A 7/32" pilot hole will need to be drilled for each thread-cutting screw. Lubricate each thread-cutting screw before installing. The door bottom should be 4.5" off the ground and the door front should be flush with the uprights. See individual product instructions to install door trim, crash bar, door closer.



11. 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 32.5" of coverage; the last deck will overlap more. Place the second row of type S decks and fasten with (6) self-drilling screws each.



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.

