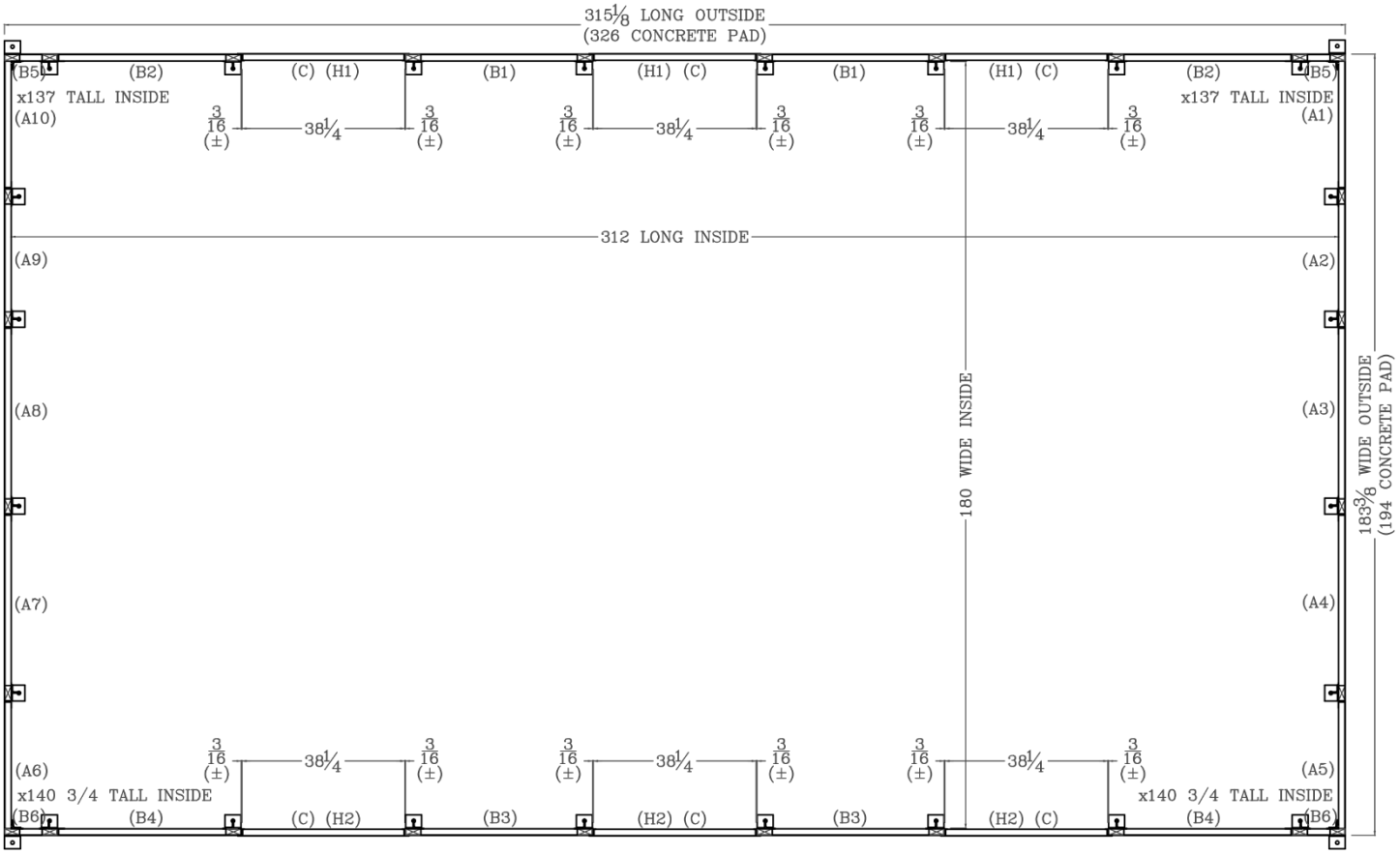
SAFE-T-COVER® BY HYDROCOWL

ENCLOSURES DESIGNED FOR THE WORLD'S WATER SYSTEMS™

Model No. LES 180-312-137 (11/21/22)

ASSEMBLY INSTRUCTIONS - PLEASE READ CAREFULLY



Enclosure Plan View

1. **Do not remove the PVC masking film until the enclosure is fully assembled. The PVC masking film will protect the enclosure's outer finish during installation.**

2. **The concrete base should be at least 6" thick, 326" long and 194" wide. Please note that the concrete base should be level, or the "C" (access) panels may be difficult to install.**

3. **Mark the concrete base for outside the enclosure (183 3/8" wide by 315 1/8" long).**

4. **All "A#" and B#" panels are factory reinforced against strong winds with L2x2 unless noted otherwise.**

5. **Stand the "A#-B#" corner-side panels "A5&B6", "A6&B6", "A1&B5", "A10&B5" firmly together and then assemble them using Hex Head Screws at the marked locations making sure that the panels are pulled tightly together before tightening the screws. (For best results, insert a bead of silicone caulk into the inside bend of the "B#" panel flanges.) Set them on the marked concrete base (Fig. 1).**

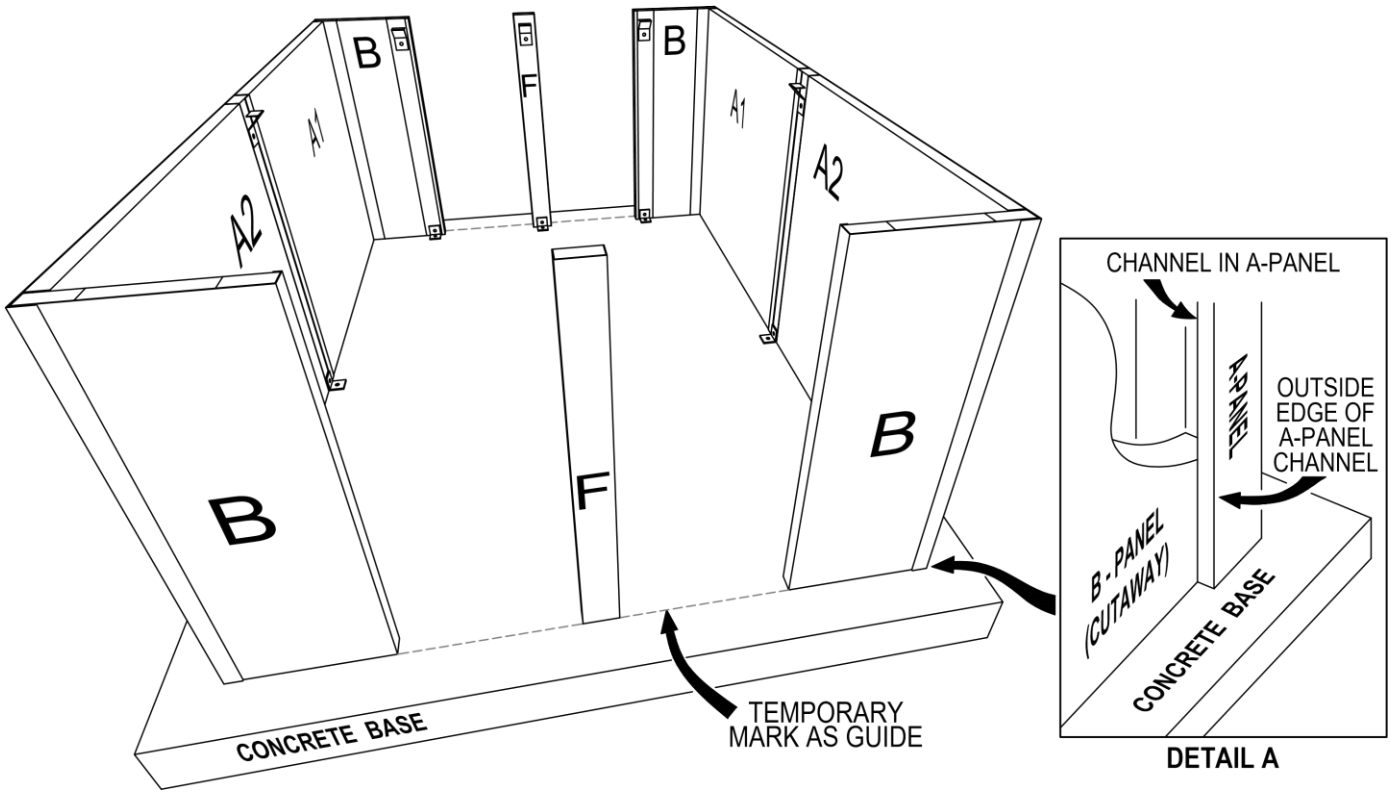


FIG. 1

NOTE: the "F" posts have been replaced with "B#" (middle) panels, see the Enclosure Plan View.

6. **Stand the "A#" (end) panels firmly together between the "A#" (corner) panels and then assemble them using Hex Head Screws at the marked locations making sure that the panels are pulled tightly together before tightening the screws. Start on the end with the "A4" and "A3" panels. Stand the panels in place one at a time and then fit the "A2" panel into the final position. Measure and verify the inside width along the "A#" panels. If this width is greater than 180¼" as measured from the insulation at the B#" panels, the "A#" panels can be pressed more tightly together. Temporarily positioning the "D1" panels on the assembled corners will help to ensure a good roof fit at the "A" (end) panels and corners. Once the inside width and roof fit is confirmed, fasten the "A#" panels together using Hex Head Screws at the marked locations. (For best results, insert a bead of silicone caulk into the inside bend of the "A#" panel flanges.) Repeat this assembly on the other end with the "A7", "A8" and "A9" panels. If roof panels are to be handled with a chain hook, Four 1/8" stainless ROOF LIFTING BRACKETS are provided with a 1" diameter chain hook hole each. Place one at each corner of the roof panel for lifting.**

7. **The PVC masking film has been factory marked at the center of each stud at the top, outside along the "A#" (end) panels. The mark comes below the roof flange of the "D1" (roof) panels to allow for Hex Head Screws to be installed in the roof flange on center with the studs.**

8. **With the "D1" (roof) panel in place on a "B-A-B" (corner-end-corner) assembly, fasten it as shown at the vertical stud locations (Fig. 2) using six (6) Hex Head Screws. The marked stud centers of the "A#" panels at the wall stud locations should be 1¾" from the edge of the panels. Note the orientation and location of the vertical studs in the Enclosure Plan View. Screws should fasten to the vertical studs to**

resist strong winds.

9. **Insert Inside Roof Clips into the "D1" (roof) panel at all "A#" panel stud locations (Fig. 2C) and then attach them as shown using one (1) Hex Head Screw per clip.**

10. **Repeat the "D1" (roof) panel assembly on the other "B-A-B" (corner-end-corner) assembly.**

11. **Position the "B#" (middle) panels and install the "H#" (header) panels in the following roof assembly steps while trying to maintain about a $^{3}/_{16}$" gap on both sides of each "H#" (header) panel. Measure and verify the inside length of the enclosure during assembly progress. If the measurements do not match the Enclosure Plan View, compensate by increasing or decreasing the suggested $^{3}/_{16}$" gaps until the inside length is correct. Try to maintain the same gap at all gap locations.**

12. **Once the approximate "H#" (header) panel gap is determined, "temporarily" install the "H#" (header) panels between the "B#" (side) panels. Fasten the "H#" (header) panels in place for roof support with the required approximate gap on each side of the panels using Hex Head Screws at the marked locations. It's a good idea to leave some header panel assembly screws uninstalled and/or loose to allow for final adjustments after fitting the roof.**

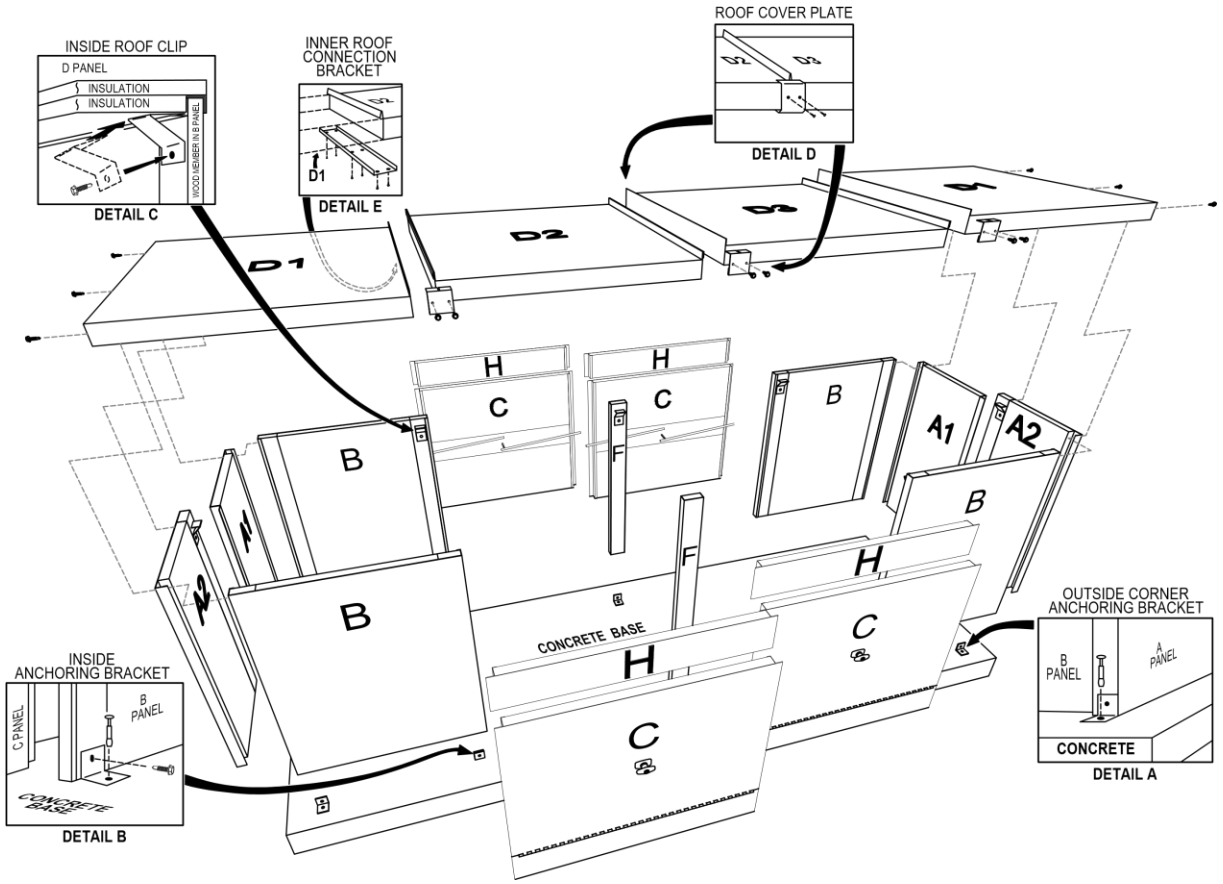


FIG. 2

NOTE: the "F" posts have been replaced with "B" (middle) panels, see the Enclosure Plan View.

13. **Inspect the alignment of the "C" (access) panels during assembly. Verify that their removal and**

replacement allow adequate space and positioning with the adjacent panels prior to attaching brackets to the concrete.

14. **Position the "D2" and "D3" (roof) middle panels (Fig. 3) between the "D1" (roof) end panels and set them in place. Place the "D3" (roof) panels one at a time starting at one end, and then fit the "D2" (roof) panel into the final position.**

15. **Place Inner Roof Connection Brackets under all "D#-D#" rafter panel connections on the inside and then fasten them into place (Fig. 2E) using Hex Head Screws.**

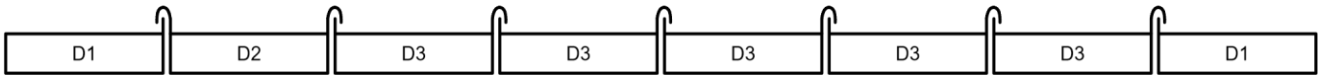


FIG. 3

16. **Complete the bracket and clip installation and Hex Head Screw fastening in the following steps on one side and one end before moving on to the other side and end of the enclosure. Fastening each anchoring bracket will require two (2) Hex Head Screws installed first and then one (1) Anchor Bolt per bracket installed last. (Note that the remaining Hex Head Screws will be installed at the end of the enclosure assembly.) Fastening each Inside Roof Clip will require one (1) Hex Head Screw per clip.**

17. **Attach Anchoring Brackets outside at both "A#" (corner) panels on the first side of the enclosure (Fig. 2A) oriented as shown in the Enclosure Plan View, and then fasten them to the concrete.**

18. **Attach Anchoring Brackets to the "A#" (corner) panel studs at the bottom, inside on the first side of the enclosure (Fig. 2B) oriented as shown in the Enclosure Plan View, and then fasten them to the concrete.**

19. **With the "C" (access) panels aligned and spaced with approximately a $^{3}/_{16}$" gap on each side, install Anchoring Brackets (Fig. 2B) at the bottom of the "B#" (side) panel studs oriented as shown in the Enclosure Plan View along the first side of the enclosure.**

20. **Place a Narrow Roof Bracket under any rafter location on the first side of the enclosure that aligns with a "B#" (side) panel stud. Fasten the bracket in place using two (2) Hex Head Screws.**

21. **Insert Inside Roof Clips into the "D#" (roof) panels at all remaining "B#" (side) panel stud locations (Fig. 2C) along the first side of the enclosure and then fasten them in place.**

22. **Fasten the "D#" (roof) panels to the "B#" (side) panels outside at all vertical stud locations using Hex Head Screws. The stud centers should be 1¾" from the edge of the "B#" panels. Note the orientation and location of the vertical studs in the Enclosure Plan View.**

23. **Attach Anchoring Brackets to the "A#" panel studs at the bottom, inside on one end of the enclosure (Fig. 2B) and then fasten them to the concrete.**

24. **Repeat these bracket and clip steps on the other side and end. Note that all provided Anchoring Brackets must be installed for the enclosure to withstand strong winds. Every stud location (except for**

corner studs) must have a Narrow Roof Bracket or Inside Roof Clip retaining the roof inside. Every wall stud location should have a Hex Head Screw fastening the roof to the enclosure on the outside.

25. Finish installing and tightening the screws in the "H#" (header) panels at the marked locations.

26. Fasten the "C" (access) panels to the "B" (side) panels using Hex Head Screws at the marked locations. This will reinforce the enclosure against strong winds.

27. Install Roof Cover Plates on the "D#-D#" seams (Fig. 2D) using four (4) Hex Head Screws per plate.

28. Install the remaining Hex Head Screws into each of the Anchoring Brackets. All screw holes must be populated with screws. All bracket screws must be installed for the enclosure to withstand strong winds.

29. Make sure that each marked location has a hex head screw installed to withstand strong winds.

30. Provide a ground-fault interrupter device in all electrical circuits per all applicable codes. Install the heater(s) as per the manufacturer's instructions and governing local and national codes.

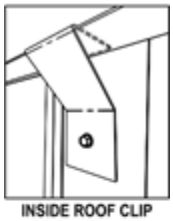
31. For maximum protection, it is suggested that the area between the bottom of the enclosure and the concrete base should be caulked except for the "C" panels. DO NOT CAULK THE BOTTOM OF THE "C" PANELS.

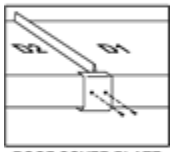
32. REMOVE THE PVC MASKING FILM IMMEDIATELY AFTER INSTALLATION. If the panels get wet with the masking film in place, water will irreversibly stain the panels. Summertime heat will bake the masking film onto the panels.

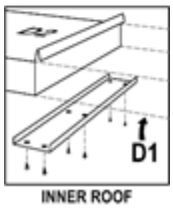
Model No. LES 180-312-137
CONTENTS

1. Assembly parts included:

A. 1- "A1" (end corner) Reinforced Panel
B. 1- "A2" (end) Reinforced Panel
C. 1- "A3" (end) Reinforced Panel
D. 1- "A4" (end) Reinforced Panel
E. 1- "A5" (end corner) Reinforced Panel
F. 1- "A6" (end corner) Reinforced Panel
G. 1- "A7" (end) Reinforced Panel
H. 1- "A8" (end) Reinforced Panel
I. 1- "A9" (end) Reinforced Panel
J. 1- "A10" (end corner) Reinforced Panel
K. 2- "B1" (middle side) Reinforced Panels
L. 2- "B2" (corner side) Reinforced Panels
M. 2- "B3" (middle side) Reinforced Panels
N. 2- "B4" (corner side) Reinforced Panels
O. 2- "B5" (corner) Reinforced Panels
P. 2- "B6" (corner) Reinforced Panels
Q. 4- "C" (access) Panels
R. 2- "C" (access) Panels with Drain Flaps
S. 2- "D1" (roof end) Panels
T. 1- "D2" (roof middle) Panel
U. 5- "D3" (roof middle) Panels
V. 3- "H1" (header) Panels
W. 3- "H2" (header) Panels
X. 28- Anchoring Brackets (3 ¾"x 7" 880 bracket; 4 screws each)
Y. 24- Inside Roof Clips
Z. 2- Narrow Roof Brackets
AA. 14- Roof Cover Plates (With 4 holes for large custom roof thickness)
BB. 14- Inner Roof Connection Brackets
CC. 1- Package of ½" Anchors.
DD. 1- Package of Hex Head Screws
EE. 1- Masonry Bit
FF. 1- Magnetic Chuck
GG. 4-ROOF LIFTING BRACKETS (1/8" Stainless with 1" diameter hole each)


INSIDE ROOF CLIP


ROOF COVER PLATE



INNER ROOF CONNECTION BRACKET

2. Tools needed:

A. Hammer
B. Screw Gun
C. ¾" Wrench
D. Hammer Drill