

## **Instructions for Completing Random Selection via Photographs**

Random selection will be accomplished using labels that, once applied to the test unit, cannot be removed in one piece. Be careful when removing the labels from the backing because they are fragile, and when applying them since they cannot be moved. Note that they are especially fragile in cold weather.

There will be five sets of labels, one for each of the units. A unit could be a collector, an ICS, or a thermosiphon system.

The general process is described below. Any deviations needed because of unique designs will be described in your cover letter.

1. Five collectors or systems of the model to be tested must be available.
2. You have been provided 5 sets of labels. The number of labels in each set will depend on the collector or system design, as indicated below. Each of the labels in a set are identical and can be used in any order.
3. You are to place labels on each of the 5 collectors/systems in these positions:
  - A. Glazed flat plate collector or ICS unit – 5 sets of 4 labels – see Figure 1:
    - a. Place the first label across the glazing cap on the top of the collector. The label should contact the cover plate, the glazing cap, and the enclosure side wall. If it is not long enough to do this, place it on just the cover plate and the glazing cap.
    - b. Place the second label across the side wall and the back plate on the back of the collector. The label should contact both the side of the collector enclosure and the back plate. Place this label on the side opposite the one where you placed the label on the front of the collector.
    - c. Place the third label across one corner of the collector enclosure.
    - d. Place the fourth label across the opposite corner of the enclosure.
  - B. Unglazed flat plate collector – 5 sets of 2 labels – see Figure 2:
    - a. Place the first label in contact with the header and the absorber on one end of the collector.
    - b. Place the second label in contact with the header and the absorber on the other end of the collector.
  - C. Tubular collector – see Figure 3:
    - i) Assembled – 5 sets of 3 labels:
      - a. Place the first label in contact with the header housing and one of the tubes
      - b. Place the second label across the joint between the top and the front of the header housing.
      - c. Place the third label across one corner of the header enclosure.
    - ii) Boxed – 2 labels for each box
      - a. Arrange boxes in five groups (as if they were five assembled collectors)
      - b. Place two labels on each box. Labels should be placed across an opening point.
  - D. Thermosiphon system – 5 sets of 4 labels for each collector and 5 sets of 2 labels the tanks – see Figure 4:
    - a. Label each collector as in A. above
    - b. Place one label on each end of the tank contacting the end plate and the housing.

4. Take the following digital pictures. Use a medium resolution setting on the camera. JPG files of about 200kb each are sufficient. There will be at least 22 photos. Feel free to add additional photos to show greater detail.
  - A. Overall views showing all 5 units. Take two photos from different directions. This will be a total of two photos.
  - B. One photo of each label. Frame the shot to enclose as much of the collector as possible while still being able to read the number on the label. The total number of photos will equal the number of labels you received.
5. E-mail the pictures to [srcc@solar-rating.org](mailto:srcc@solar-rating.org)
6. SRCC will review the pictures and select one or two of the units for testing, depending on whether you want interim certification. SRCC will also select one unit as a spare. You are to retain this unit at your facility until testing is complete. This unit may be used if one of the test units is damaged in shipping or during the test. SRCC will notify you which unit(s) to ship to the laboratory and which one to retain as a spare.
7. Ship the selected unit to the test laboratory. This is done at your expense. If shipping overseas, be sure to have a representative in the country where the test lab is located to receive and process your shipment through customs.
8. Notify SRCC ([srcc@solar-rating.org](mailto:srcc@solar-rating.org)) that the unit has been shipped.

Label Placement Locations

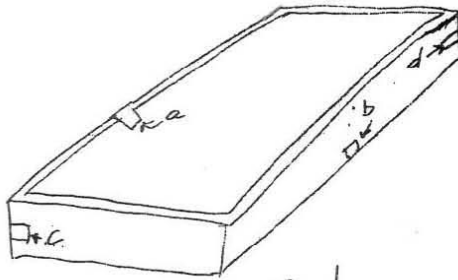


FIGURE 1

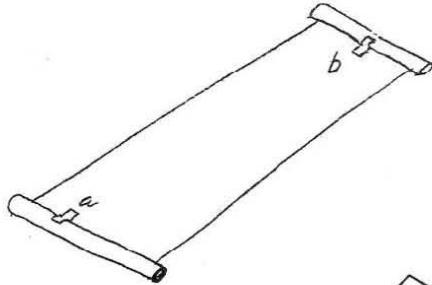


FIGURE 2

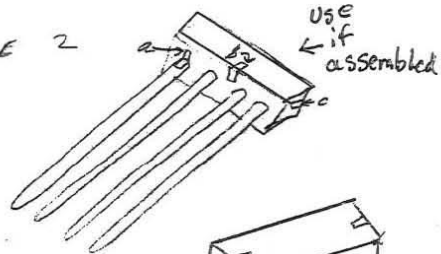


FIGURE 3

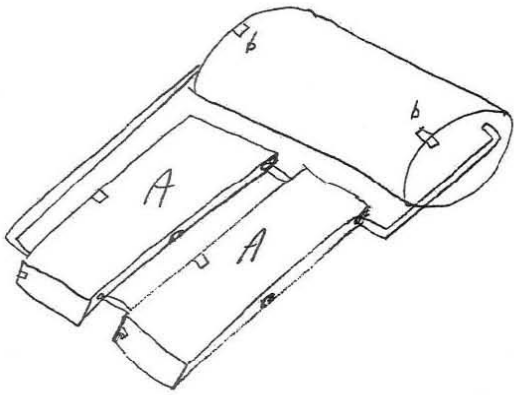
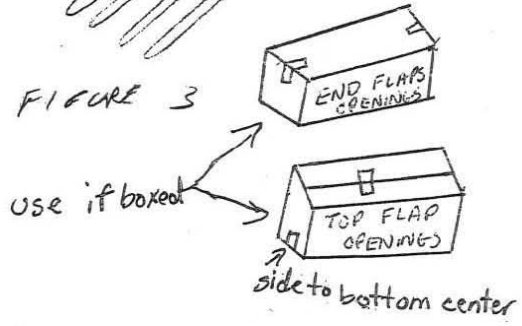
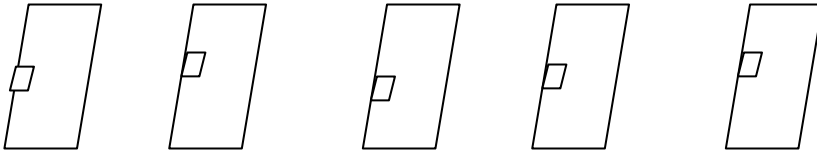


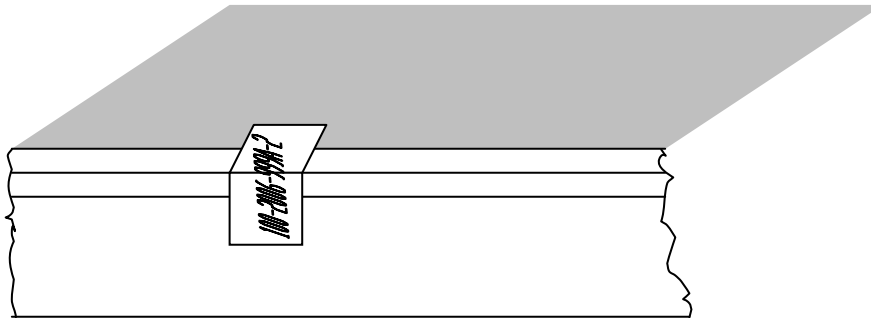
FIGURE 4



## Photographs to be Taken



**Photographs A** – 2 photos (from different angles) showing all 5 units together



**Photographs B** – A photo of each label showing as much of the collector as possible while still being able to read the label. The total number of photos will equal the number of labels you received.