

# Locating Electrical Cutouts

Electrical access means we will now provide a 3/4" to 1 1/8" diameter hole for passing electrical cable from the base plate of the column all the way up to and through the compression ring. Additional holes to run electrical cable in tension members, eave beams, purlins, or ridge beams will be considered an electrical cutout and needs to be requested and purchased before engineering begins. Electrical cutouts are also round or rectangular holes cut in frame members or cover plates which allow insertion of an electrical box, light, etc. Round columns are equipped with a welded-in enclosure that accomodates a standard UL listed electrical box to ensure a flush mounting of the outlet face. Placement and size of these holes is sometimes very critical to the structural condition of the building and must be reviewed by engineering. **Customers choosing to cut their own holes will void our warranty and may affect the structural integrity of the shelter.**


## Instructions

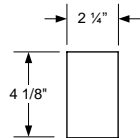
- Marking up sheet 2 of submittal drawings when ordering the structure ensures a more accurate cutout placement. If the submittal set is not available, indicate on views as shown by marking electrical access and cutout locations on member. Special size cutouts need to be communicated at order.
- Indicate which side of member the cutout is to be located
- Dimension the exact location to place cutout
- Provide sketch of cutouts with dimensions
- If not specified to the bottom, center, or top of cutout, dimension will be taken to the bottom of the cutout

## Definition of Side

- Top Side: Side facing up; roofing side
- Bottom Side: Side facing down; toward grade
- Interior Side: Inside face of the member
- Exterior Side: Outside face of the member
- Left Side: Left side of a column or truss when viewed from the exterior side of the structure
- Right Side: Right side of a column or truss when viewed from the exterior side of the structure

## Sample Cutout Location Callouts

- "Electrical cutouts to be centered on every other lower purlin on the bottom side, total quantity of 3; cutout dimensions: 3/4" dia." 
- "Electrical cutout 24" above grade to bottom of cutout on one column, interior face"



## Where can I have cutouts?

- We typically place cutout areas on the inside of the column 18" (for an outlet) to 48" (for a switch) from the finished floor. The standard rectangular size is 2 1/4" x 4 1/8" and round size is 13/16". If sconces (wall mounted lights) are required, cutouts will be placed higher on the column.
- The compression ring (if not fitted with a cover) will come with painted plugs for placement in open holes to keep bees out, only if electrical access is purchased. Removal of one plug is needed for electrical wiring access.
- Cutouts we will avoid:
  - Within 12" of a structural joint
  - Cutouts not centered on column or steel member (too close to either side of the radius)
  - Oversize cutout
  - J-column (short vertical columns on clerestories); we are able to run electrical through j-columns and out the bottom cover plate

