

## 3.24 ROOF CONNECTIONS

### Roof Connections

There are various ways to attach a roof system to Greenblock. Determining which method to use will be influenced by what area of the country you build in, wind conditions, etc.



#### ***Inset treated sill plate:***

- One of the most energy efficient methods, Greenblock's foam on each side creates an outstanding thermal barrier.
- When pouring, scoop out concrete at the top of the wall and level to 1½" below the top of the form
- Install anchor bolts according to local code
- Install a treated 2x plate with foam sill sealer in between sill and concrete
- Install trusses or rafters according to local code

#### ***Half inset treated sill plate:***

This is the method used when added bearing is required on outside edge of the wall. For Instance, a flat gable truss.

- When pouring, scoop out concrete at the top of the wall and level to 1½" below the top of the form, cutting away the top 1½" portion of the outside foam panel edge
- Use taper top forms to provide extra concrete bearing on the outside edge, if needed
- Install anchor bolts according to local code
- Install a treated 2x plate with foam sill sealer in between sill and concrete; set the outer edge of the sill so that the sheathing will be flush with the wall
- Install trusses or rafters according to local code

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### *Top mounted treated sill plate –*

Sometimes taper top forms are used

- Ensure concrete is flush with top of form
- Check to ensure it is level
- Install anchor bolts according to local code
- Install a treated 2x, on foam sill sealer or gasket and then bolt down