

D.10 TRANSITIONS FROM ONE SIZE POLYSTEEL FORM TO ANOTHER

Many projects involve the use of multiple sizes of PolySteel Forms. Basements are often constructed with larger forms than the above-grade walls, requiring a transition from one size to another, generally at the floor level. It is also possible to utilize one size form on the back wall of a walkout basement, and reduce the size of the form on the side walls that have less backfill pressing against them. Both of these conditions require a simple technique to make the transition smooth and seamless.

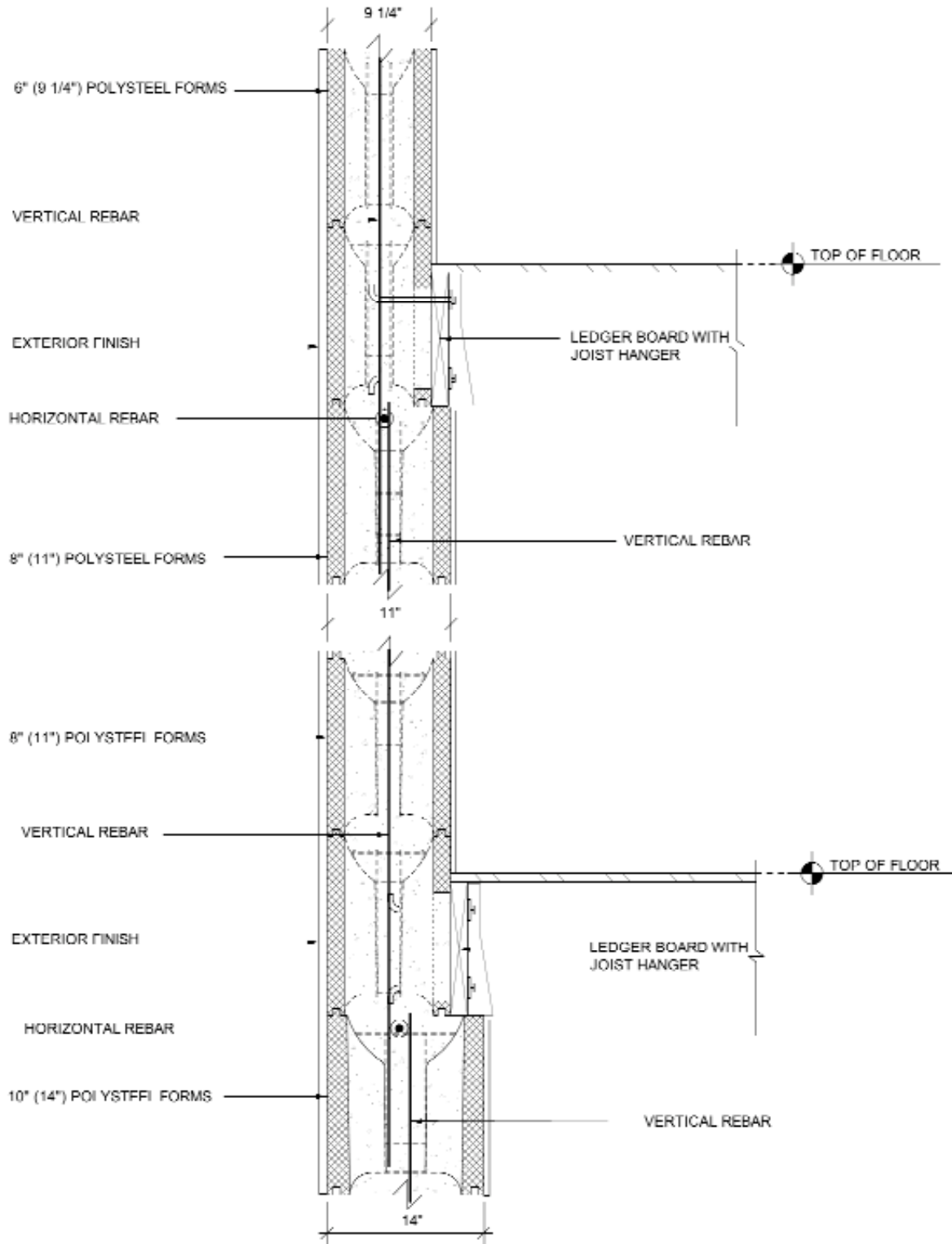
D.10.1 HORIZONTAL TRANSITION.

This transition is generally made at the intermediate floor level, allowing the floor system to hide the transition on the inside of the wall. [Figure 4.6](#) illustrates this transition.

1. Set the smaller form on top of the larger form with the tongue and groove on the outside surface of the wall in vertical alignment.
2. Cut the exposed tongue off of the inside of the lower form.
3. Attach a 2x piece of lumber or ledger material to the attachment studs on the inside surface of the upper form such that it rests on the now flat edge of the lower, larger, form and keeps the upper form plumb with the rest of the wall.
4. Install floor system, as required per section C.13 of the Manual, into the upper, smaller form, and reinforce the wall as required by design.
5. Place concrete in the wall high enough to cover the floor system anchors 3 to 4 inches, but below the top of the wall to ensure a good bond with the next concrete pour and prevent a cold joint from occurring in a horizontal beam.

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FIGURE 4.6 HORIZONTAL TRANSITION FROM LARGER TO SMALLER FORM



D.10 TRANSITIONS FROM ONE SIZE POLYSTEEL FORM TO ANOTHER (continued)

D.10.2 VERTICAL TRANSITION.

This transition is generally made at the corner, using the corner form of the larger size PolySteel Form to make the turn into the straight form of the smaller size wall.

Figure 4.7 below illustrates this transition from an 8" form to a 6" form.

1. Straight stack the corners of the larger forms to provide a uniform wall connection.
2. Cut the tongues from both forms at the inside of the corner (as they will not line up) and interconnect the tongues and grooves on the outside. Apply adhesive as needed. This will ensure that the outside of the wall is flush at the transition.
3. You may choose to cut out and remove foam from the inside of the larger form at the intersection to provide for a minimum of 2" of concrete between the two forms. This will smooth the flow of concrete through the corner. As a structural matter, this step is not required, as the connection at the horizontal beams will tie the two walls together with ample strength.
4. Reinforce as required with proper overlap.

FIGURE 4.7 VERTICAL TRANSITION FROM LARGER TO SMALLER FORM

