

# TRULINE<sup>®</sup>

The Innovative Hybrid Sheet Piling System

## Drawing 111 creating Truline expansion joints

### CREATING TRULINE EXPANSION JOINTS FOR CONCRETE CAPS WITH EXPANSION JOINTS

If the design of the top cap for the wall specifies expansion joints, you must also design expansion joints into the Truline wall. The expansion joint in the wall and the top cap must be at the same location.

An expansion joint in the wall is made by ending a run of continuously engaged hooks with a female end cap and then starting a new run of u-channels with a male end cap.

#### Suggested Method:

1. Fasten together, using 1-1/4 #6 deck screws, one male and one female end cap in the arrangement shown.
2. Install this assembly on the u-channel of a section of continuously hooked pieces.
3. Remove all screws above the mudline except for those that are close enough to the top that they can be removed later after the other u-channels are installed.
4. Install the next u-channel on to the hooks of the male end cap and proceed with the remainder of the wall.
5. Prior to pouring the top cap, remove all remaining screws holding the male and female end caps together to allow for unrestricted movement above the mudline between these parts. While the screws fastening the end caps together remain in place below the mudline, this will not inhibit the movement of the joint. The pullout strength of the small screw is easily exceeded when the wall contracts stripping the threads which allows the wall to move.
6. Prior to backfilling, place filter fabric behind the wall at each expansion joint to prevent soil from entering the joint when it opens up.

