

# BEAST® SCREED SYSTEM INSTALLATION INSTRUCTIONS

## SETUP PROCEDURES

- 1 The concrete crew responsible for placement of the concrete should be made aware Beast Screed will be utilized on the project. The placement crew should have input on, or approve of, where the Beast Screeds will be placed, the spacing, and the direction of the bays (or strips) to be poured, i.e. N to S or E to W.
- 2 Stego recommends following ACI 302 to determine bay width.
  - a. For strict  $F_L$  tolerance, ACI 302.1R-15 (10.3.2) recommends using a maximum 16-foot screed board for hand screeding, with minimum 2 feet of overlap onto the previously poured bay or strip, essentially leaving you with a maximum 14-foot bay width.
- 3 Pulling a string line from edge form to edge form along the bay lines can be helpful to line up the Beast Screeds. It is also helpful to determine at what length to cut the Beast Screed Posts.
 

(See Illustration 1a)

  - a. Note: The step of pulling a string line is only an aid and can be omitted if determined by the pour crew or set-up crew.
- 4 Next, determine the spacing for Beast® Foot. (See Illustration 1b)
  - a. Spacing should be equal to or less than the length of the screed board being used. Keep in mind Beast Screed is a Point-to-Point Screed Guide System.

Illustration 1a

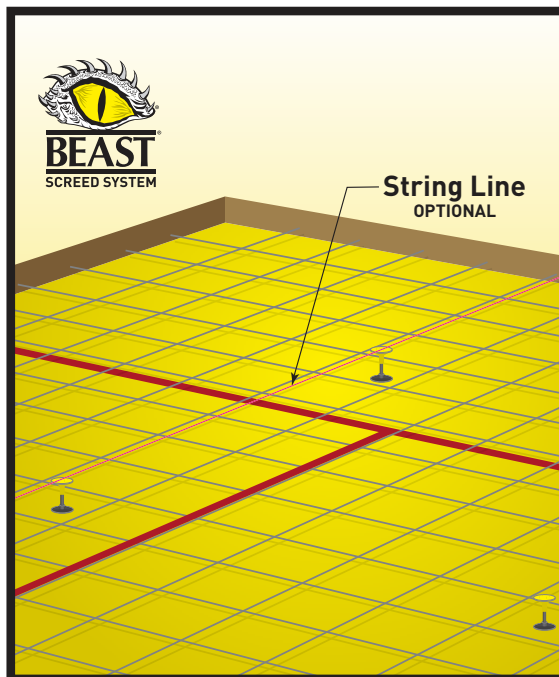
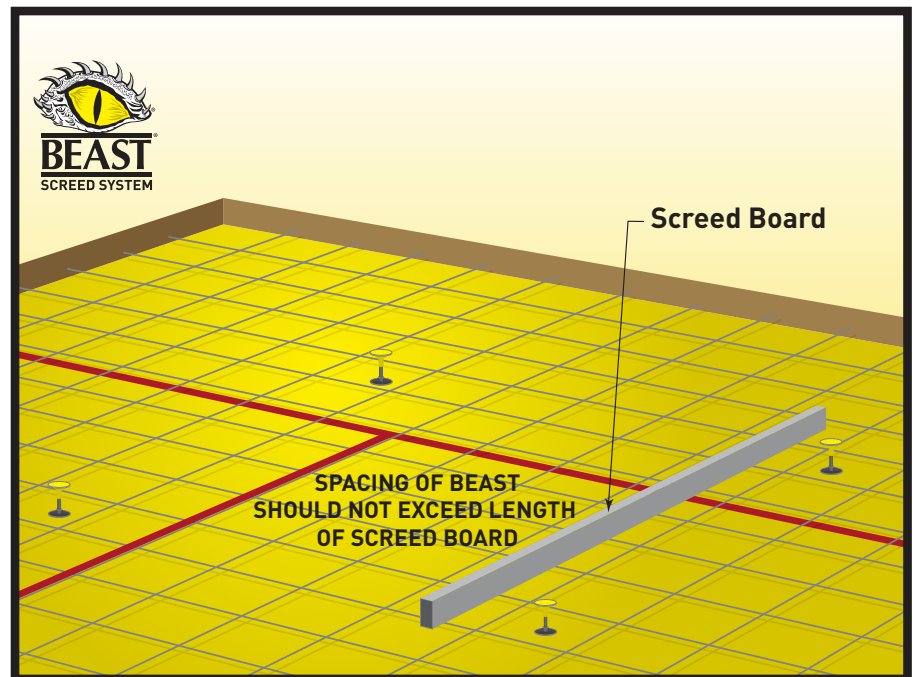


Illustration 1b



- 5 It is best to identify ONE person responsible for establishing slab elevation and making elevation adjustments to the Beast® Screed Adjustable Caps.
  - a. Note: Ensure the pour crew understands the Beast Screed Adjustable Cap & Beast Screed Post are designed to be reused. It is best to place the used screed caps and posts in water until the pour has been completed and they can be properly cleaned for reuse.

## INSTALLATION PROCEDURES

- 1** Clean the vapor barrier in the area where placing Beast Foot by wiping it with a clean, dry rag.
  - a. Be sure to remove any dust, moisture or other contaminants prior to adhering Beast Foot to the vapor barrier.
  - b. If there is a blotter<sup>[1]</sup> (sand) layer present, you will first need to pull away the blotter layer material in a small area to expose the vapor barrier.
  
- 2** Once the vapor barrier is **clean** and **dry**, remove the liner from the bottom of Beast Foot using the pull tab (Illustration 2a) and apply it to the vapor barrier in the desired location.
  - a. Immediately apply downward pressure by standing on either the center hub portion (Illustration 2b) or on the outer edges of Beast Foot.
  - b. Apply pressure for a minimum of 5 to 10 seconds.
  - c. As with other Stego adhesives, the more set time the adhesive has, the better the bond.
  - d. For best adhesion results store Beast Foot in a temperature conditioned space prior to application to the vapor barrier. **In cold temperatures apply downward pressure for an additional period of time to ensure maximum adhesion.**

Illustration 2a

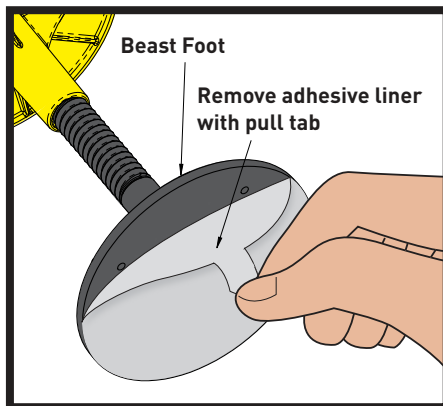
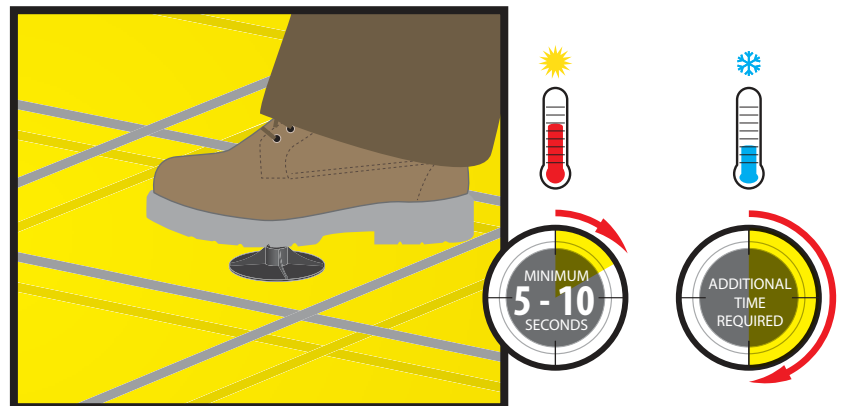
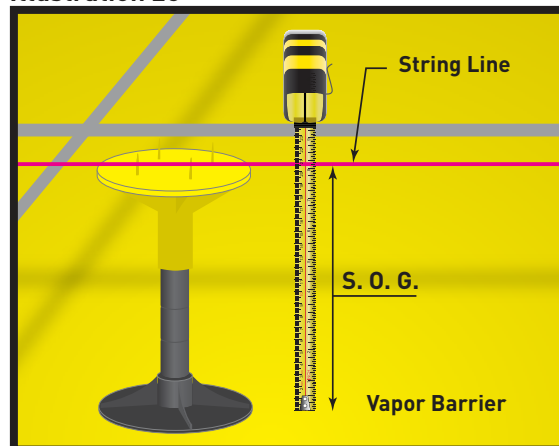


Illustration 2b



- 3** Determine the depth of the S.O.G. (from the vapor barrier) by measuring from the vapor barrier to the string-line (Illustration 2c), or by use of a grade rod and laser level.

Illustration 2c



[1] See ACI 302.2R-06 (Section 7.2) for discussion of the use of a blotter layer on top of vapor barrier.

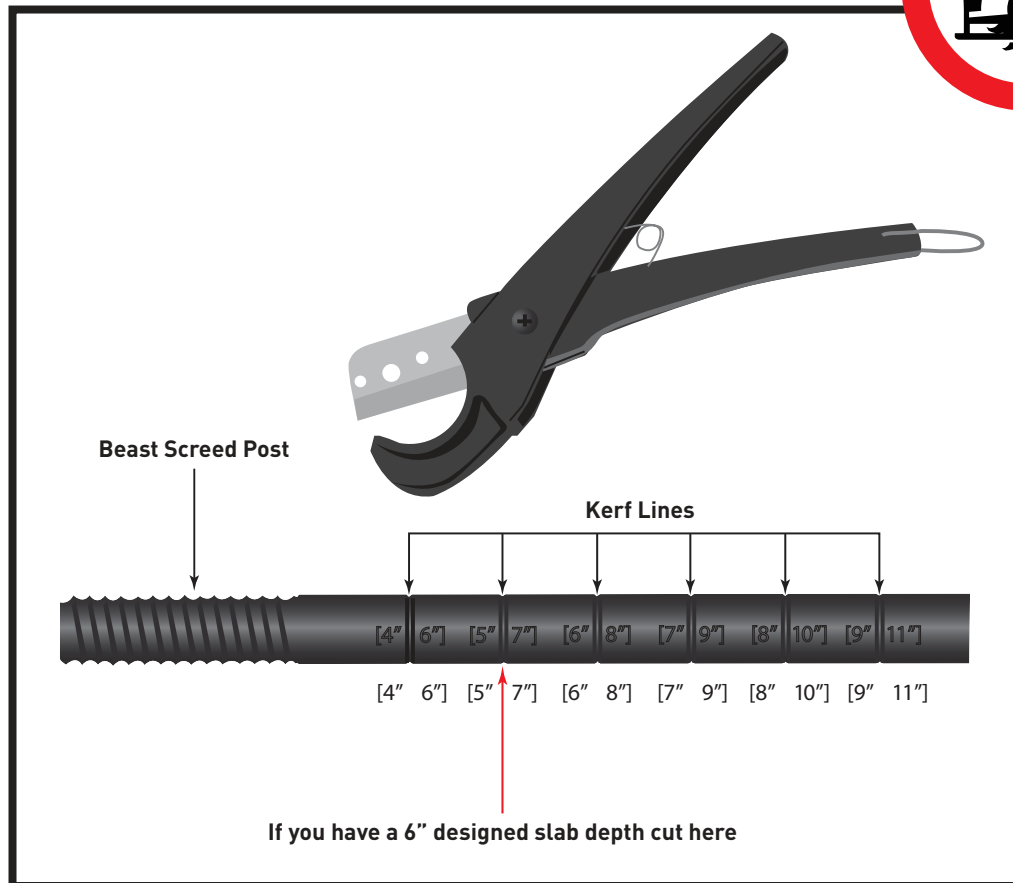
## INSTALLATION PROCEDURES *Continued...*

- 4 Cut the Beast Screed Post at one of the “kerf” lines to accommodate the proper slab depth.
  - a. There are numbers marking each of the kerf lines which correspond with the range of slab depths each post length will accommodate. (Illustration 3a)
  - b. The “designed” depth of the slab should fall directly between the marked numbers on the Beast Screed Post. For instance; for a 6” slab depth the post should be cut at the [5” 7”] kerf line and an 8” slab depth should be cut at the [7” 9”] kerf line. This will give one full inch of adjustment up and down to accommodate for variation in slab depth.
  - c. There are 2 inches of overall height adjustment once Beast Screed has been set.
  - d. Stego recommends the use of a “scissor-type” PVC tubing cutter to cut the Beast Screed Post. Other types of PVC cutters work, as well as a thin blade saw such as a hack saw.



**Caution:** For safety purposes, power tools should never be used to cut the Beast Screed Posts.

Illustration 3a



## INSTALLATION PROCEDURES *Continued...*

- 5** Attach the Beast Screed Adjustable Cap to the Beast Screed Post by engaging the matching threads. (Illustration 4a)
  - a. Partial engagement is sufficient at this point.
- 6** Insert the opposite end of the Beast Screed Post fully into the “press-fit” center hub of Beast Foot. (Illustration 4b)
  - a. If a blotter layer is present, you can now push the material back into place where it was pulled aside initially to install Beast Foot.
- 7** Using a laser level and check rod or grade rod set to the required slab elevation, rotate the Beast Screed Adjustable Cap to adjust up or down until the proper slab elevation is achieved. (Illustration 4c)

Illustration 4a

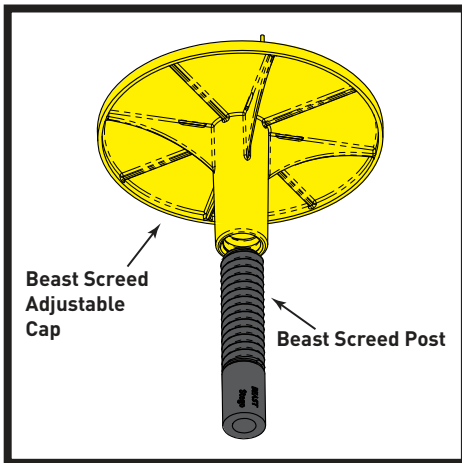


Illustration 4b

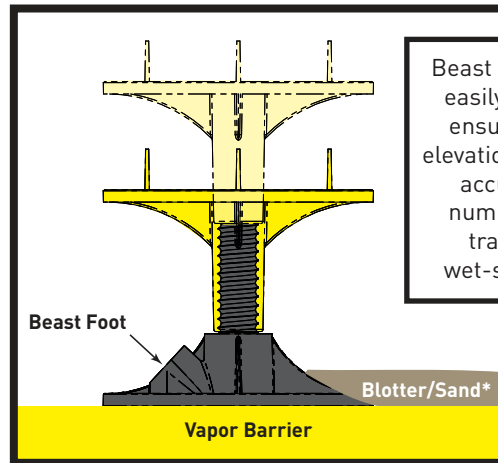
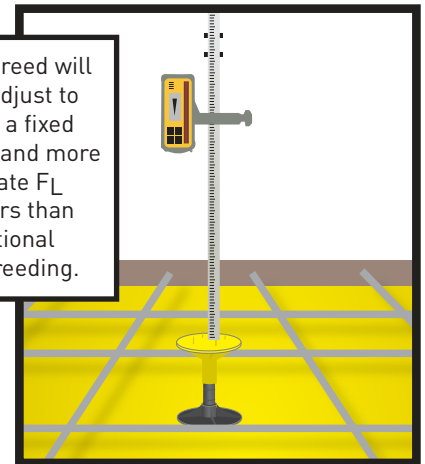


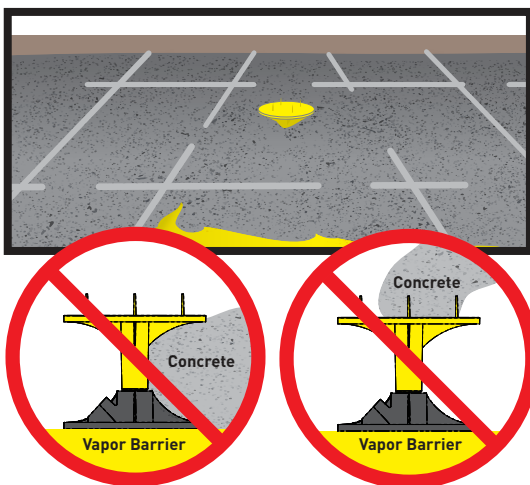
Illustration 4c



\*See ACI 302.2R-06 (Section 7.2) for discussion of the use of a blotter layer on top of vapor barrier.

## CONCRETE PLACEMENT

Illustration 4d



- 1** Concrete is placed in bays or strips, in the same manner as if wet-screeding. However, instead of floating “cow patties” Beast Screeds are installed in those locations as a fixed-elevation, point-to-point guide screed system.
  - a. As concrete is placed near, and around Beast Screed, be careful not to “side load” the screed hardware as this could adversely affect the elevation of the Beast Screed Adjustable Cap. (Illustration 4d)
    - i. *Note: The taller the screed hardware is, the more critical this becomes.*
  - b. Try to avoid pouring concrete directly over the top of Beast Screed as this will make it much more difficult to see. (Illustration 4d)
    - i. *Note: If using a drag-line pump or “Georgia Buggy”, it may be prudent to install the Beast Feet in their desired locations, then pre-cut the Beast Screed Posts to the correct length, install the Beast Screed Adjustable Caps and set them aside. Once the placement equipment has passed by the Beast Feet, and the area is clear, insert the Beast Screed Post and Beast Screed Adjustable Cap and set them to the proper slab elevation.*

## CONCRETE PLACEMENT *Continued...*

- 2 As soon as concrete is placed in an area around the Beast Screed, float a flat area, the width of a hand float, around and at the same level as the top of the Beast Screed Adjustable Cap. (Illustration 5a)
  - a. Note: This step can be omitted by the pour crew, however, it gives the screed crew a larger area to screed from, as well as keeps the Beast Screed Adjustable Caps clean for easy location and removal.
- 3 Using the appropriate length screed board or straightedge, strike off grade strips between the Beast Screeds and commence with normal screeding operations. (Illustration 5b)

Illustration 5a

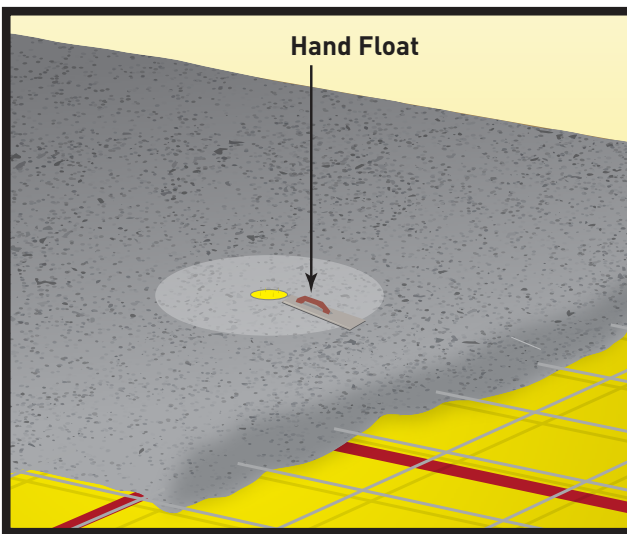
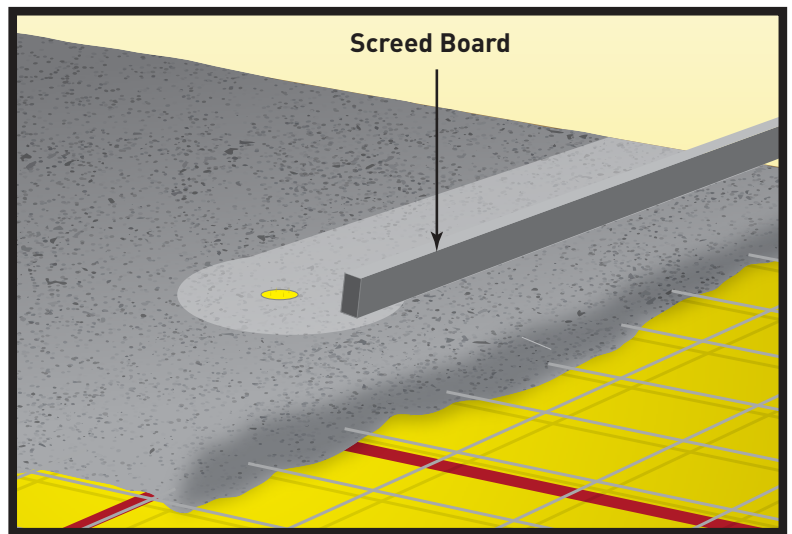
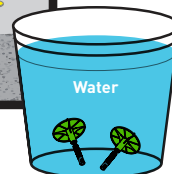
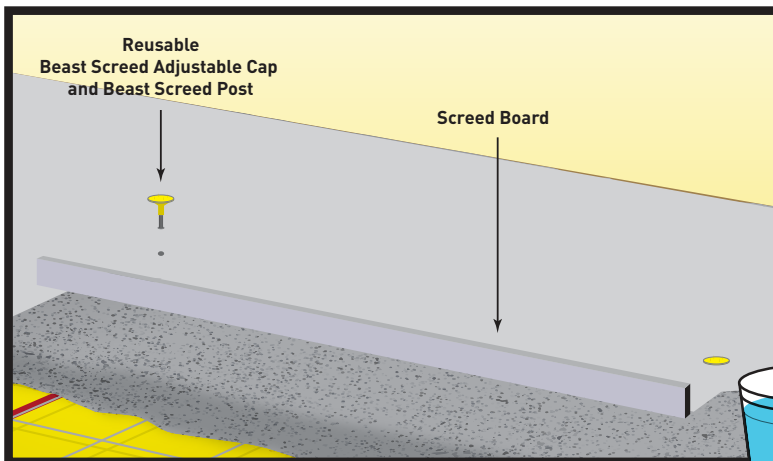


Illustration 5b



- 4 To maximize the cost benefits of Beast Screed, reuse the Beast Screed Post and Beast Screed Adjustable Cap.
  - a. The best time to remove the Beast Screed Adjustable Cap and Beast Screed Post is when the screeding crew approaches each Beast Screed from the previous bay. (Illustration 5c)
    - i. Note: Beast Foot remains adhered to the Stego Wrap and buried in the concrete.
  - b. Stego recommends leaving the screed hardware in place as long as practical during the screeding process to ensure a fixed-elevation point is maintained throughout the screeding operation; however, this will be up to the placement crew's discretion.

Illustration 5c



As the screed hardware is removed, it is recommended to place the hardware in a bucket or wheelbarrow filled with water so cleanup will be easier once the pour is complete.

Additional information can be obtained by contacting Stego Industries or by visiting the website. (877) 464-7834