

# **CASTING - KIE-LOCK PILE SPLICES** **FORMERLY SURE-LOCK**

## Recommended Casting Instructions

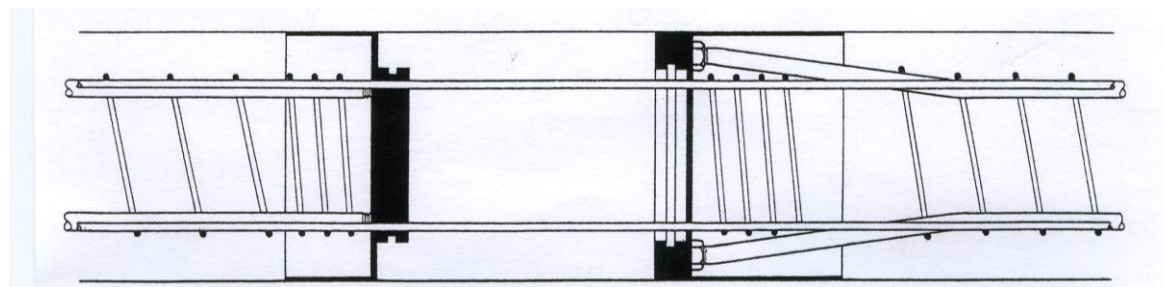
**A note to estimators** - splice installation moderately increases pile casting cost, and this varies by pile size, labor rate and casting yard methods in a geographical region.

### ASSEMBLY

1. Male and Female splice plates are shipped palletized and are interchangeable.



2. Threaded rebar anchors are shipped separately.
3. Screw the bars into tapped holes in the back sides, making sure that the ends do not protrude through the plate face.
4. The bent rebar is screwed into the Female splice half with the offset to the inside of the spiral per drawing.
5. The outside of the Male plate and inside of the Female plate groove edges *must* be protected from concrete spills. Run duct tape around edges *before* placing in forms.



Male Splice Half                      Female Splice Half  
Section Showing Typical Set-up in Casting Bed

# CASTING - KIE-LOCK PILE SPLICE

## INSTALLATION

1. The Female half goes on the top of the bottom segment; the Male on the bottom of the top segment. Place the halves 1-2 ft. apart in the forms with vent hole in the skirts facing up. If there is spiral to go inside Female rebar offset bends and over strands, place the turns inside first, pull strands, do initial tensioning, spread spiral (and/or stirrups). Support the splice rebar weight from kicking the splice faces back.



2. Squaring:
  - a) With sufficient quantity, it may be more efficient to have jigs made. Please consult with us about this.
  - b) Otherwise, spacers can be made, or use a framing square against the splice face and form sides and bottom, and wedges at the splice sides. One man can check the square while another moves the rebar and ties it. Some precasters use strand clamps at the splice face without spacers.

## AFTER CASTING

1. Remove duct tape before burning strands off flush with splice plates so it doesn't melt.
2. Grind plate surfaces flush so that no strand element protrudes, not even 1/32".
3. Clean mating splice surfaces and grooves of all concrete before shipping.

**It is important for successful splicing at the job site that the splice surfaces and grooves are free from concrete and strand ends are flush -- inspect!** Site assistance by PSI personnel is available for initial casting by prior arrangement.

### PILE SPLICES, INC

264 Cazneau Ave., Sausalito, CA 94965  
Phone: 415-331-7260 Fax: 415-331-7261