

PHOTOGRAPHS - KIE-LOCK PILE SPLICE

24" & 30" sq. pile splice Casting & Driving -- 5 pictures



30" sq. Sure-Lock Splice – Male & Female parts in casting bed, splice anchor rebar screwed into splice plates inside spiral.



Bottom Pile Segment – with Female Splice end, showing recess for square Male Plate.

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30" sq. Sure-Lock Splice – Top pile segment with Male main plate
Splices were for FDOT bridge project



24" sq. Sure-Lock Pile Splice – FDOT St. John's River Bridge.
Top pile segment lowered so splice plates fit together.

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24" sq. Sure-Lock Splice – when splice plates meet evenly, 4 high-strength steel locking bars are inserted through side holes into the groove space in the Male & Female plates.

The bars are shear keys, and after insertion, are held from backing out by plugs screwed into the holes in the main plate.

The main plate thickness, locking bars, rebar size are designed to conservatively meet strength requirements in compression, bending and tension. Calculations are provided for approval.

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