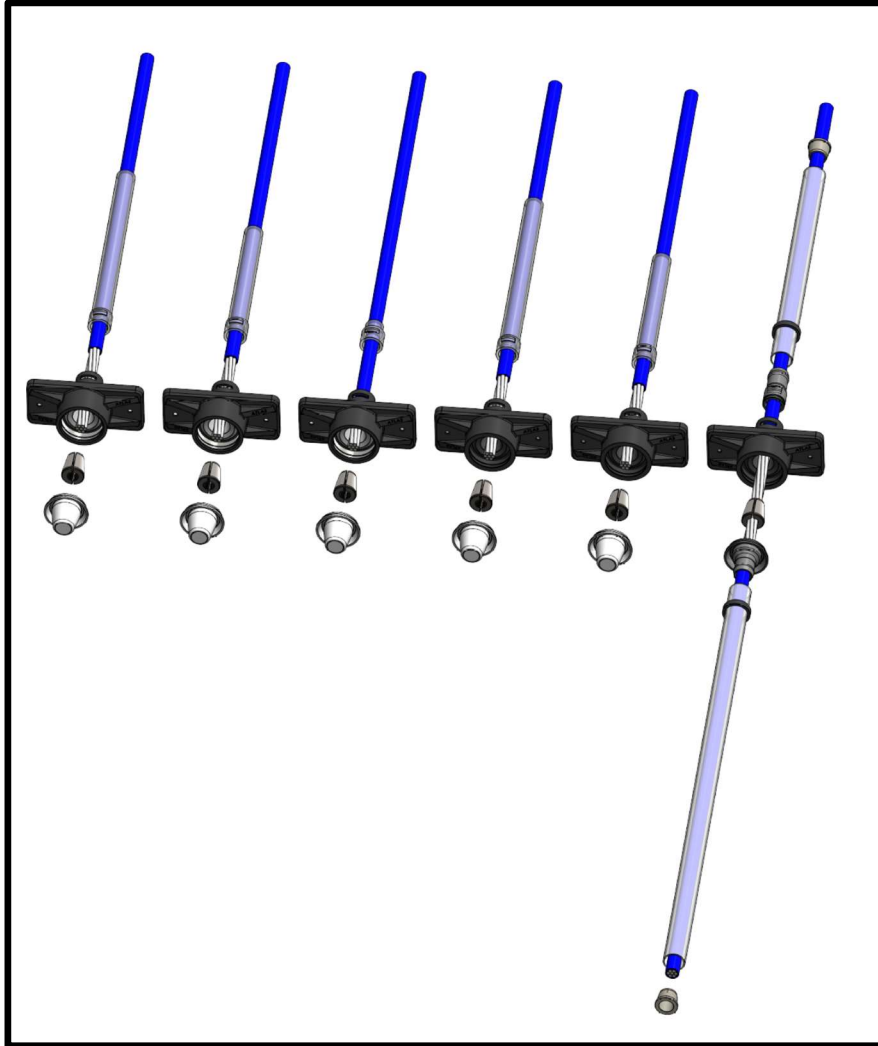


TITAN[®] ACP[™] ENCAPSULATION SYSTEM

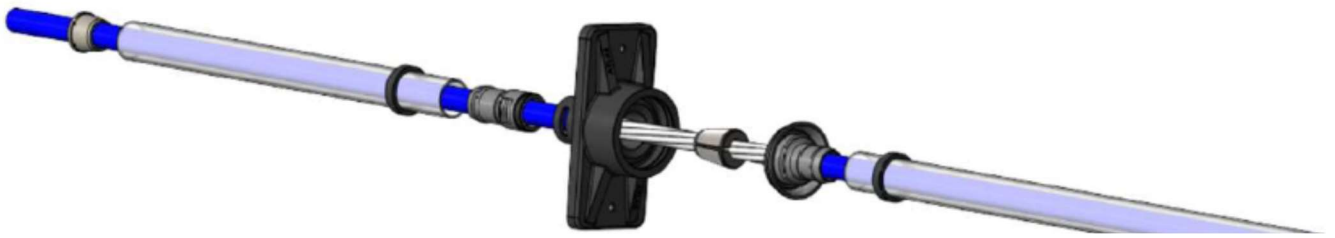
ASSEMBLY GUIDE (01/26/2021)



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NOTE: Fabricators may use alternate methods of assembly based upon available equipment, component selection, and experience.

ATLAS TITAN® ACP™ INTERMEDIATE ASSEMBLY



Fabrication Plant Assembly

1. Slide components over tendons during fabrication.
2. Order of components must be oriented with short tubes toward initial pours and long tubes in subsequent pours:
 - a. 12" Tube ENIT5012
 - b. Lock Ring ENIC50R
 - c. Adaptor ENIC50ADAP
 - d. Anchor ENFE50
 - e. Intermediate Cap ENIC50CAP
 - f. Lock Ring ENIC50R
 - g. 24" Tube ENIT5024
3. Optional: 12" Tube, Lock Ring, Adaptor, and Anchor may be preassembled to reduce field labor.
 - a. Insert Adaptor into slotted extension of Anchor locking tabs in place.
 - b. Slide Lock Ring over Adaptor.
 - c. Slide 12" Tube onto Adaptor.
 - d. Pull Ring backwards over tube locking it onto Adaptor.
4. Optional: 24" Tube, Lock Ring, and Intermediate Cap may be preassembled to reduce field labor.
 - a. Slide Lock Ring over Intermediate Cap.
 - b. Slide 24" Tube onto Intermediate Cap.
 - c. Pull Ring backwards over tube locking it onto Intermediate Cap.

Field Assembly Prior to Initial Pour

1. Place Intermediate Pocket Former around tendon and between the construction joint form and Anchor.
2. If not preassembled:
 - a. Insert Adaptor into slotted extension of Anchor locking tabs in place.
 - b. Slide Lock Ring over Adaptor.
 - c. Slide 12" Tube onto Adaptor.
 - d. Pull Ring backwards over tube locking it onto Adaptor.
3. Cut and remove sheathing near Anchor according to tendon supplier's instructions. Undamaged sheathing must extend into sealed tubes complying with specifications.
4. Attach assembly to construction joint form according to placement drawings.
5. Fill 12" Tube with corrosion inhibiting coating as specified by tendon supplier.
6. Insert Split Seal ENIC50S into open end of 12" Tube.

Field Assembly for Subsequent Pours

1. Remove construction joint forms.
2. Remove Intermediate Pocket Former.
3. Carefully measure and only remove sheathing sufficient to allow for stressing.
4. Stress tendons according to supplier's instructions.
5. If not preassembled:
 - a. Slide Lock Ring over Intermediate Cap.
 - b. Slide 24" Tube onto Intermediate Cap.
 - c. Pull Ring backwards over tube locking it onto Intermediate Cap.
6. Insert Intermediate Cap into Anchor.
7. Fill 24" Tube with corrosion inhibiting coating as specified by tendon supplier.
8. Insert Split Seal ENIC50S into open end of 24" Tube.

ATLAS TITAN® ACP™ FIXED END ASSEMBLY



Alternate 1

1. Components:
 - a. Anchor ENFE50
 - b. 6" Tube ENGT50600 or 9" Tube ENGT50900
 - c. Grease Cap ENGC50
 - d. Wedge WG50122
2. Insert 6" or 9" Tube into Fixed End Anchor.
3. Use Tube Insertion Tool to push Tube into Anchor locking tabs on tube into slots on anchor.
4. Slide Anchor with Tube over the end of tendon.
5. Set Wedges onto Strand and push-seat to required force.
6. Install Grease Cap to seal Anchor / Wedge cavity.

Alternate 2

1. Components:
 - a. Anchor ENFE50
 - b. 9" Tube ENGT50900
 - c. Grease Cap ENGC50
 - d. Wedge WG50122
2. Remove a length of sheathing (shortest length possible that allows for grippers to engage strand) from tendon.
3. Slide 9" Tube over the end of tendon, beyond the sheathing end.
4. Slide Anchor onto end of tendon.
5. Set Wedges onto Strand and pull-seat to required force.
6. Use Slotted Tube Insertion Tool to push Tube into Anchor locking tabs on tube into slots on anchor. Sheathing must extend into Tube according to specifications.
7. Install Grease Cap to seal Anchor / Wedge cavity.

ATLAS TITAN® ACP™ STRESSING END ASSEMBLY



1. Components:
 - a. Anchor ENLE50
 - b. 0.5" Seal ENGT50050, 6" Tube ENGT50600, or 9" Tube ENGT50900
 - c. 2" Pocket Former PF5ST20 or 45° Pocket Former PF545
 - d. Wedge WG50122
 - e. Grease Cap ENGC50
2. Insert 0.5" Seal, 6" or 9" Tube into Stressing End Anchor.
3. Use Tube Insertion Tool to push Tube into Anchor locking tabs on tube into slots on anchor.
4. Slide Anchor with Tube over the end of tendon.
5. Insert tendon into and through Pocket Former and form.
 - a. Score or pre-cut sheathing at back of Anchor using 6" or 9" Tube.
 - b. Sheathing must be continuous through Anchor using 0.5" Seal
6. Attach assembly to form according to placement drawings.

After Placing Concrete:

7. Remove Pocket Former.
8. Set Wedges into Anchor and stress to required force.

After Approval of Stressing Results:

9. Trim stressing tail and install Grease Cap to seal Anchor / Wedge cavity.
10. Close pocket recess with Non-Shrink Grout Plug.