

PRECAST PRESTRESSED CONCRETE CONSTRUCTION – DEBONDED STRANDS.
(REV 6-17-16)

SUBARTICLE 450-7.4 is deleted and the following substituted:

450-7.4 Debonded Strands: Extend the tubular debonding material (sheathing) through the header for debonded prestressing steel. Tape and tie the debonding material at the terminus located at the inside of the member. Seal openings between strand and sheathing for debonded strands with 100% silicone sealant within seven calendar days of detensioning. Use slit and non-slit tubular sheathing that is high-density plastic with a minimum wall thickness of 0.025 inch, and an inside diameter exceeding the maximum outside diameter of the pretensioning strand by 0.025 inch to 0.140 inch.

The slit tubular sheathing may be used in emergency situations, to repair breakages or punctures in non-slit tubular sheathing, rectifying an improperly debonded strand, incorrect debonded length of a strand, etc.

The sheathing must not react with concrete, coating, or steel and must be sealed in a manner that prevents the intrusion of water or cement past during concrete placement. The slit sheathing must maintain its integrity during the placement of fresh concrete without opening the seam. A maximum of two pieces of the sheathing tube may be butt spliced. Tape and tie to ensure total water tightness of the sheathing tube.

Do not use strands debonded over the full length of a product.