TYPICAL PROFILES FOR TENDONS WITH FLEXIBLE FILLER

Profile F1
(2 Span Profile shown; Profiles for 3 or more Spans similar)

Profile F2
(2 Span Profile shown; Profiles for 3 or more Spans similar)

Profile F3
(2 Span Profile shown; Profiles for 3 or more Spans similar)

Profile F4

Profile F5

Profile F6

Profile F7

Profile F8

Profile F9

Profile F10

Profile F11

Profile F12

Profile F13

Profile F14

LEGEND:
- Strand, Wire or Bar Tendon
- Anchorage with Filler Inlet at lower end of Tendon
- Anchorage with Filler Outlet at higher end of Tendon
- Alternate tendon profile immediately adjacent to Anchorage
- Supplementary Filler Inlet
- Filler Port / Outlet
- Drain (See Specifications Section 462 for additional Drain location requirements)
- Direction of Filler Flow
- Inspection Location

* Adjust location to coincide with the true high or low point(s) of the tendon.

(2 Span Profile shown; Profiles for 3 or more Spans similar)
TYPICAL PROFILES FOR TENDONS WITH GROUT FILLER

Profile G1
(2 Span Profile shown; Profiles for 3 or more Spans similar)

Profile G2
(Profile for Single Cell Box shown; Profiles for Multiple Cell Boxes similar)

Profile G3

Profile G4

Profile G5

Profile G6

NOTE: See Sheet 1 of 2 for Typical Profiles for Tendons with Flexible Filler and for Legend of Symbols.
ANCHORAGE PROTECTION FOR BAR TENDONS

TYPE 1
Permanent Anchorage Cap (Typ.)
Continuous Elastic Coating Extend 12" from edge of blockout or edge of Pour-back

Epoxy Grout Pour-back

TYPE 2
Epoxy Grout Pour-back placed after permanent tendons anchored in adjacent segment have been stressed

Concrete Surface

TYPE 3A
Reinforced Concrete or MAPC Pour-back (Seal Pour-back with High Molecular Weight Methacrylate)

Concrete Surface

TYPE 3B
MARP or Epoxy Grout Pour-back

Concrete Surface

ANCHORAGE PROTECTION FOR STRAND TENDONS

TYPE 4
Concrete Surface

Epoxy Grout Pour-back (Typ.) Substructure & Integral Caps

ANCORAGE PROTECTION FOR BAR TENDONS

TYPE 5
Concrete Surface

Epoxy Grout Pour-back (Typ.) Substructure & Integral Caps

TYPE 6
Concrete Surface

Epoxy Grout Pour-back (Typ.) Substructure & Integral Caps

TYPE 7
Type 7 Notes:
1. Traffic or Pedestrian/Bicycle Railing not shown for clarity.
2. Where Pour-back is not protected by Traffic or Pedestrian/Bicycle Railing, Coat Pour-back with High Molecular Weight Methacrylate.

TYPE 8
Adjacent Precast Segment

Adjacent Cast-in-Place Segment

TYPE 9
Temporary Drain Hole

Concrete Surface

TYPE 10
Concrete Surface

TYPE 11
Concrete Surface

TYPE 12
Concrete Surface

TYPE 13
Concrete Surface

TYPE 14
Concrete Surface

TYPE 15
Concrete Surface

POST-TENSIONING ANCHORAGE PROTECTION

FY 2017-18

DESIGN STANDARDS

INDEX No.
21802

SHEET No.
1 of 1
NOTES:

Where a vacuum system is connected to an anchorage, connect both the anchorage outlet and the cap outlet to the vacuum system.

**PROCEDURE:**

1. Remove Rigid Filler Pipe.
2. Inspect Tendon for voids as necessary.
3. Vacuum inject as required. If grout is used, allow grout to cure. If flexible filler is used, replace filler displaced by inspection. Remove pipe used for vacuum injecting.
4. Clean threads and rethread as required.
5. Install Threaded Plug into Outlet to form a tight fit.
7. Fill Pocket with Epoxy Grout.

**NOTES:**

1. Holes used for the Inspection and Filler Inlets/Outlets may be formed using tapered pipes or mandrels.
2. Where a vacuum system is connected to an anchorage, connect both the anchorage outlet and the cap outlet to the vacuum system.
FILLER INLET AND OUTLET DETAILS FOR BAR TENDONS

(VERTICALLY ORIENTED TENDON SHOWN; HORIZONTALLY ORIENTED TENDON SIMILAR)

NOTES:
1. Anchor or Nut to allow for flow of Filler into Cap.
2. Where a vacuum system is connected to an anchorage, connect both the anchorage outlet and the cap outlet to the vacuum system.

PROCEDURE:
1. Remove Rigid Filler Pipe or drill Grout in flexible pipe.
2. Inspect tendon for voids.
3. Vacuum inject as required. If grout is used, allow grout to cure. If flexible filler is used, replace filler displaced by inspection. Remove pipe used for vacuum injecting.
4. Install Threaded Plug into Outlet to form a tight fit.
5. Over-ream hole (1/4" Ø over-ream). Clean and roughen sides.
6. Fill pocket with epoxy grout.

TENDONS AT HIGH POINTS AND 3' FROM HIGH POINTS (FILLER OUTLET)

FILLER OUTLET DETAIL AT VERTICAL SURFACES

Drain water prior to filling and inject filler from the lowest point.

TENDONS AT LOW POINTS (FILLER INLET / DRAIN)

FILLER INLET AND OUTLET DETAILS FOR I-GIRDERS

DETAILS FOR C.I.P. BOXES WITH INTERNAL TENDONS SIMILAR. WEB REINFORCING NOT SHOWN FOR CLARITY.