**SECTION A-A**

**Tendon injection and venting**

- Components marked with "T" on the drawing are temporary.
- Port and hose assembly may be oriented in any required direction to facilitate the threading of the tendons.
- Epoxy grout shall be used to fill recesses: make reference to FDoT standard plans index 462-003 for post-tensioning anchorage and tendon filling details.
- Concrete core must meet FDoT Structures Design Guidelines Section 1.6.2

**NOTE:**
- Components marked with "T" on the drawing are temporary.
- Port and hose assembly may be oriented in any required direction to facilitate the threading of the tendons.
- Epoxy grout shall be used to fill recesses: make reference to FDoT standard plans index 462-003 for post-tensioning anchorage and tendon filling details.
- Concrete core must meet FDoT Structures Design Guidelines Section 1.6.2

---

**B I L L  O F  M A T E R I A L S**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I-27-00-00</td>
<td>Protection Cap</td>
<td>Nylon S-P#601 - according to ASTM G909</td>
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<tr>
<td>2</td>
<td>I-27-01-00</td>
<td>Protection Cap (RS)</td>
<td>Stainless Steel 304L - according to ASTM A240</td>
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<tr>
<td>3</td>
<td>I-27-02-00</td>
<td>Protection Cap (RS)</td>
<td>316L - according to ASTM A276</td>
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NOTE:

- This drawing is not intended for manufacturing purposes.

---

**SECTION A-A**

<table>
<thead>
<tr>
<th>Rev.</th>
<th>Date</th>
<th>First issue</th>
<th>L.C.</th>
<th>T.C.</th>
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<tr>
<td>0</td>
<td>12/20/16</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Material: NBR - according to FDoT Tab. 2.2.1.7-1 Sec. 960

Treatment: -

treatment

Title: Centro Guarnizioni TIGER s.r.l

PROTECTION CAP O-RING for 27AMTS15 PT SYSTEM

Drawn: L.CIVATI  Checked: T.CICCONE

Date: 12/20/2016

Dimensions: [Graphical representation]

Part #: 27-01-02  Code: OR 061050

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WEDGE PLATE
for 27AMTS15 (27-06")
Internal Bonded System

Material: Steel AISI C1045 Normalized

Dimensions:
- Ø8.11" (205.6mm)
- Ø9.84" (250.0mm)
- 3.54" (90mm)
- 3.94" (100mm)

TENSA AMERICA LLC
1111 KANE CONCOURSE, S.TE 200 - BAY HARBOR ISLAND - 33154 FL
- www.tensaamerica.com - PHONE: +1 305-866-9917

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ANCHOR 27AMTS15 (27-0.6")

Material: Ductile Iron ASTM A536 GR80-55-06
Treatment: Galvanization according to ASTM A123

Title: ANCHOR 27AMTS15 (27-0.6")

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Drawn: F.M. MORAGLIA
Checked: T. CICCONE

Date: 12/20/16

Dimensions: INCH [mm] FOR REFERENCE ONLY

Part #: 27-03-00
Code: -

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I have independently reviewed the calculations and testing reports, along with the documentation and certified that TENSA system spiral rebar detail meets the requirements as outlined in paragraph 3.3 PTI Anchorage Zone Design.

(*) Do not apply post-tensioning forces until the concrete mean compressive strength $f_{cm}$ is not less than the values shown in the present drawing.

NOTE: The local zone reinforcement is to be shown on the shop drawings.
NOTE:

- This drawing is not intended for manufacturing purposes.
Minimum radii of curvature determined as per FIB Bulletin 75, Annex A8

<table>
<thead>
<tr>
<th>Strands Nr.</th>
<th>Minimum radius [ft (m)]</th>
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<tr>
<td>23</td>
<td>25.03 (7.63)</td>
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<tr>
<td>24</td>
<td>25.75 (7.85)</td>
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<tr>
<td>25</td>
<td>26.48 (8.07)</td>
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<tr>
<td>26</td>
<td>27.23 (8.30)</td>
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<tr>
<td>27</td>
<td>27.95 (8.52)</td>
</tr>
</tbody>
</table>

NOTE:
- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Duct is delivered in straight sections and is not intended to be coiled;
- Duct meets FDoT requirements in terms of Minimum Wall Thickness (Table 2.2.1.1-1 Section 960).

Material: Polypropylene - according to ASTM D4101
Treatment: -

Title: GTI DUCT 4.50" (115mm) for Internal Bonded System
Standard fit for 27AMTS15

Print on Duct:
"GTI GENERAL TECHNOLOGIES, INC. STAFFORD, TEXAS ___ U.S. & FOREIGN PATENTS P.N. 220460 115mm"
NOTE:

- This drawing is not intended for manufacturing purposes;
- Coupler meets or exceeds FDoT requirements (Section 960-2.2.1.5 and 2.4.4);
- Standard fit for 4.50" [115mm] corrugated plastic duct
GTI SLIP-ON COUPLER W/ 21mm PORT for Internal Bonded System Standard fit for 27AMTS15

NOTE:
- This drawing is not intended for manufacturing purposes;
- Coupler meets or exceeds FDoT requirements (Section 960-2.2.1.5 and 2.4.4);
- Standard fit for 4.50" [115mm] corrugated plastic duct.

Material: Polypropylene - according to ASTM D4101

Dimensions:
- 1.92" [49mm]
- 6.20" [157mm]
- 21mm grout fitting
- welded

Code: 22466
Drawn: L.CIVATI
Checked: T.CICCONE

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1111 Kane Concourse, Suite 200 - Bay Harbor Island - 33154 FL

Part #: I-27-07-02
Code: 220466

Date: 12/20/2016
Dimensions: [INCH] [mm] [FOR REFERENCE ONLY]

Tensa-America LLC - documents property of Tensa-America LLC

This document is not intended for manufacturing purposes.
NOTE:

- This drawing is not intended for manufacturing purposes;
- Heat shrink sleeve meets or exceeds FDoT requirements (Table 2.2.1.8-1 Section 960);
- Tabular sleeve diameter:
  - 6.3" [160mm] as supplied
  - 4.3" [110mm] fully recovered

ELEVATION

SECTION A-A

INSTALLATION

Surface Preparation
1. Lightly abrade the coupler (or trumpet) and duct to a distance of 2 inches [50mm] beyond each end of the shrinksleeve.
2. Wipe clean the coupler (or trumpet) and duct to remove foreign contaminants. Ensure that the components are dry before cleaning.

Installation
3. Completely remove the inner release liner from the sleeve and center the shrinksleeve over the joint to be sealed.
4. Using the appropriate sized heat gun or torch, begin at the center of the shrinksleeve and heat circumferentially around the duct and coupler. Use broad strokes.
5. Continue heating from the center toward one end of the shrinksleeve until recovery is complete (sleeve has shrunk). In a similar manner heat and shrink the remaining side. Shrinkage has been completed when the adhesive begins to ooze at the shrinksleeve edges all around the circumference.
6. Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.
7. Allow the shrinksleeve to cool for two hours prior to usage.

Inspection
8. Check the full contact of sleeve with the coupler (or trumpet) and duct.
9. Check that adhesive flows beyond both sleeve edges.
10. Check that no cracks or holes are present in shrinksleeve backing.
SECTION/ELEVATION

SECTION A-A

NOTE:
- This drawing is not intended for manufacturing purposes;
- Coupler meets or exceeds FDoT requirements (Section 960-2.2.1.5 and 2.4.4);
- Standard fit for 4.50" [115mm] corrugated plastic duct.

Material: Polypropylene - according to ASTM D4101

GTI STEPLESS COUPLER
Adaptation for 4.50" duct with 27AMTS15 trumpet