Replace 3/4" ball valve (00-03-02-M) with 3/4" female plug (00-03-04) at the end of operations.

Replace 1/2" ball valve (00-01-04-M) with 1/2" female plug (00-01-06) at the end of operations.

**PIPE INTERNAL CONFIGURATION**

- Vent assemblies can be used as inlet, outlet or drain; when elbows are present, the vent cannot be used for injection/inspection.
- 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 cover must meet FDoT Structures Design Guidelines Section 1.4.2.
- Components marked with “T” on the drawing are temporary.

**ANCHORAGE CONFIGURATION**

top venting and injection

**BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>XX-01-00*</td>
<td>Protection Cap</td>
<td>Nylon S-PA0401 - according to ASTM D5989</td>
</tr>
<tr>
<td>2</td>
<td>XX-03-00*</td>
<td>Anchor</td>
<td>Ductil Iron ASTM A536 GR80-55-06 + Galvanization according to ASTM A123</td>
</tr>
<tr>
<td>3</td>
<td>E-IU-XX-07-08*</td>
<td>Smooth Plastic Duct</td>
<td>High Density Polyethylene - according to ASTM D3350</td>
</tr>
<tr>
<td>4</td>
<td>00-01-03-M</td>
<td>NPT Pipe Nipple 1/2&quot;</td>
<td>SCH40 steel</td>
</tr>
<tr>
<td>5</td>
<td>00-01-04-M</td>
<td>NPT Ball Valve 1/2&quot;</td>
<td>SCH40 steel</td>
</tr>
<tr>
<td>6</td>
<td>00-01-05</td>
<td>NPT Female Plug 1/2&quot;</td>
<td>SCH40 steel</td>
</tr>
<tr>
<td>7</td>
<td>00-01-06</td>
<td>NPT Ball Valve 3/4&quot;</td>
<td>SCH40 steel</td>
</tr>
<tr>
<td>8</td>
<td>00-01-07-M</td>
<td>NPT Female Plug 3/4&quot;</td>
<td>SCH40 steel</td>
</tr>
<tr>
<td>9</td>
<td>00-01-08-M</td>
<td>NPT Plugs 3/4&quot;</td>
<td>High Density Polyethylene - according to ASTM D3350</td>
</tr>
<tr>
<td>10</td>
<td>00-02-05-M</td>
<td>NPT Female Fitting 3/4&quot;</td>
<td>SCH40 steel</td>
</tr>
<tr>
<td>11</td>
<td>00-03-04-M</td>
<td>NPT Female Fitting 3/4&quot;</td>
<td>Polyethylene - according to ASTM D3350</td>
</tr>
<tr>
<td>12</td>
<td>00-07-05</td>
<td>NPT Tee 1/2&quot;</td>
<td>SCH40 steel</td>
</tr>
<tr>
<td>13</td>
<td>00-07-06-M</td>
<td>NPT Tee 3/4&quot;</td>
<td>SCH40 steel</td>
</tr>
<tr>
<td>14</td>
<td>00-07-07</td>
<td>NPT Elbow 3/4&quot;</td>
<td>SCH40 steel</td>
</tr>
</tbody>
</table>

* depending from system dimension

**PIECE MATERIALS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Commercially thread seal tape</td>
</tr>
</tbody>
</table>

**PIPE EXTERNAL CONFIGURATION**

Replace 3/4" pipe (00-03-01-M) with 3/4" plug (00-03-02) at the end of operations.

**ANCHORAGE CONFIGURATION**

top venting and injection

**MISCELLANEOUS MATERIALS**

- Components marked with “T” on the drawing are temporary.
**Title:** PROTECTION CAP BOLTS for 27AMTS15

**Material:** Stainless Steel GR316L - according to ASTM F593

**Part #:** 27-01-01

**Dimensions:**
- 1/2"-13UNC THREADED ROD, 6.50" LONG, WHOLE THREADED
- 0.50" (12.7mm)
- 0.53" (13.5mm)
- 0.06" (1.6mm)
- 0.43" (11.0mm)
- 0.84" (21.4mm)
- 1.00" (25.4mm)
- 0.50" (165.1mm)
- 0.50" (12.7mm)

**Description:**
- PROTECTION CAP BOLTS
- 1/2"-13UNC HEX NUT TYPE B
- NARROW WASHER
NOTE:

- This drawing is not intended for manufacturing purposes.

**SECTION A-A**

A

A

- Ø10.48" (Ø265.07mm)

- Ø0.21" (Ø5.34mm)

**CENTRO GUARNIZIONI TIGER S.R.L**

**PROTECTION CAP O-RING**

**FOR 27AMTS15 PT SYSTEM**

**TITLE:**

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

**Description:**

**Rev.** 0  **Date:** 12/20/16  **First issue:**

**L.C.**  **T.C.**

**Drawn:** L.CIVATI  **Checked:** T.CICCONE

**Dimensions:**

**Dimensions:**

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

**Date:** 12/20/2016

**NOTE:**

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WEDGE PLATE
for 27AMTS15 (27-06") External and Internal Unbonded systems

Material: Steel AISI C1045 Normalized

Dimensions:
- Ø8.11" (Ø206mm)
- Ø9.84" (Ø250mm)

Marking

Inspection hole Ø3/8" (Ø9.5mm)
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 $f'_c$ is not less than the values shown in the present drawing.

NOTE: The local zone reinforcement is to be shown on the shop drawings.
TRUMPET for 27AMTS15 Internal Bonded and Internal Unbonded / External systems

Material: High Density Polyethylene - according to ASTM D3350

Dimensions:
- INCH [mm]
- mm FOR REFERENCE ONLY

Part #: 27-06-00

Date: 04/26/2018

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NOTE:

- This drawing is not intended for manufacturing purposes.

SECTION A-A

ø0.21" (ø5.34mm)

ø0.73" (ø18.65mm)

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

Title:
Centro Guarnizioni TIGER s.r.l
COMPRESSION SEAL
for 27AMTS15
between Anchor and Trumpet

Drawn: L.CIVATI
Checked: T.CICCONE

Date: 08/23/2016

Dimensions: 1111 KANE CONCOURSE, STE 280 - BAY HARBOR ISLAND - 33154 FL

NOTE:
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Minimum radius of curvature for prefabricated sections of duct: 13 ft (3.96 m)
Minimum radius of curvature for straight sections of duct to be field bent: 25 ft (7.62 m)

NOTE:
- This drawing is not intended for manufacturing purposes;
- Duct meets FDoT requirements (Par. 2.2.1.2 and 2.4.4 Section 960):
  - maximum dimensional ratio (DR) of 17 as per ASTM D3035 or ASTM F714
  - 125 psi rated
  - minimum cell class of 445574C as per ASTM D3350
  - minimum OIT of 40 minutes as per ASTM D3895

Material: High Density Polyethylene, according to ASTM D3350

Title: SMOOTH PLASTIC DUCT 5”
for External and Internal Unbonded Systems - Std. fit for 27AMTS15

Date: 03/20/2019
Dimensions: [INCH] [mm] FOR REFERENCE ONLY

Part #: E-IU-27-07-08
Code: -
**NOTE:**

- The installation procedure is general; reference to manufacturer’s instruction manual for the detailed installation instructions;
- This drawing is not intended for manufacturing purposes;
- Coupler meets FDoT requirements (Par. 2.2.1.5 Section 960):
  - 150 psi rated
  - minimum cell class of 445574C as per ASTM D3350
  - minimum OIT of 40 minutes as per ASTM D3895

**INSTALLATION**

**Preparing the duct**
1. Scrape the duct up to 0.4” (10mm) beyond the insertion length of the fitting.
2. Clean the welding area and let it dry.
3. Insert the duct ends straight into the fitting for the correct length.
4. Install the aligners in order to keep straight position.

**Welding Process**
5. Connect the welding cables to the electrofusion coupler connectors and enter the welding parameters in the device.
6. At the end of the welding cycle, disconnect the cables and wait for the cooling.
7. Remove the aligners.
BILL OF MATERIALS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>XX-07-03-01</td>
<td>Bulkhead Coupler</td>
<td>Polypropylene - according to ASTM D4101</td>
</tr>
<tr>
<td>2</td>
<td>XX-07-03-02</td>
<td>Match-Cast Coupler</td>
<td>Polypropylene - according to ASTM D4101</td>
</tr>
<tr>
<td>3</td>
<td>XX-07-03-03</td>
<td>Sealing Gasket</td>
<td>TPR Blend - according to FDoT Tab.2.2.1.7-1 Sec.960</td>
</tr>
<tr>
<td>4</td>
<td>XX-07-03-04</td>
<td>Boot</td>
<td>TPR Blend - according to FDoT Tab.2.2.1.7-1 Sec.960</td>
</tr>
<tr>
<td>5</td>
<td>XX-07-03-05</td>
<td>Bulkhead load plug</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>6</td>
<td>XX-07-03-06</td>
<td>Match-Cast load plug</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>7</td>
<td>XX-07-03-07</td>
<td>Gasket Blockout</td>
<td>Polypropylene - according to ASTM D4101</td>
</tr>
<tr>
<td>8</td>
<td>XX-07-03-08</td>
<td>Storage Cap</td>
<td>Polypropylene - according to ASTM D4101</td>
</tr>
<tr>
<td>9</td>
<td>08-10-08</td>
<td>Weld Cap</td>
<td>Stainless Steel (MMA) - according to ASTM A106</td>
</tr>
<tr>
<td>10</td>
<td>1-XS-07-09</td>
<td>Corrugated Duct</td>
<td>Polypropylene - according to ASTM D4101</td>
</tr>
<tr>
<td>11</td>
<td>E-XX-07-05-03</td>
<td>Smooth Plastic Duct</td>
<td>High-density Polyethylene - according to ASTM A900</td>
</tr>
</tbody>
</table>

NOTE:
- Reference to manufacturer’s installation manual for the detailed installation instructions;
- This representation of both smooth and corrugated duct in the same coupler is purely representative;
- Segmental duct coupler meets FDoT requirements (Par. 2.2.1.6 and 3.2.1 Section 960);
- Components marked with “T” on the drawing are temporary, components marked with “O” are optional;
- In the beside table “XX” stands for the system dimension.
NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.

Title: GTI SDC BULKHEAD COUPLER 4.50"
for 4.5" GTI corrugated duct and
5" smooth duct
Standard fit for 27AMTS15
Alternate fit for 19AMTS15

Material: Polypropylene - according to ASTM D4101

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Date: 03/20/2019
Part #: 27-07-03-01
Code: 220481

Drawn: L. CIVATI
Checked: T. CICCONE
NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.

Material: Polypropylene - according to ASTM D4101

Title: GTI SDC MATCHCAST COUPLER 4.50”
for 4.5” GTI corrugated duct and
5” smooth duct
Standard fit for 27AMTS15
Alternate fit for 19AMTS15

Part #: 27-07-03-02
Code: 220482

Date: 03/20/2019
Dimensions: [INCH [mm] FOR REFERENCE ONLY]

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NOTE:
- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.
NOTE:
- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.
**NOTE:**

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Temporary item.

**Title:** GTI SDC BULKHEAD LOAD PLUG 4.5"
for 4.5" GTI corrugated duct and
5" smooth duct
Standard fit for 27AMTS15
Alternate fit for 19AMTS15

**Material:** Nylon

**Dimensions:**

- 6.69" [169mm]
- 4.69" [119mm]
- 1.06" [27mm]

**Description:**

- GTI 5DC BULKHEAD LOAD PLUG 4.5"
- for 4.5" GTI corrugated duct and
- 5" smooth duct
- Standard fit for 27AMTS15
- Alternate fit for 19AMTS15

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**Date:** 03/20/19

**Rev.** 0  **Date** 03/20/19  **Description**  **L.C.**  **T.C.**  **Drawn** L. CIVATI  **Checked** T. CICCONE

**Part #: 27-07-03-05**  **Code:** 220493
NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Temporary item.

Material: Nylon

Title: GTI SDC MATCHCAST LOAD PLUG 4.5"

for 4.5" GTI corrugated duct and
5" smooth duct

Standard fit for 27AMTS15
Alternate fit for 19AMTS15

Dimensions:

- 4.69" [119mm]
- 5.55" [141mm]
- 0.79" [20mm]

Treatment:

- INCH [mm] FOR REFERENCE ONLY

Date: 03/20/2019

Part #: 27-07-03-06
Code: 220496

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NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Temporary item.

Material: Polypropylene - according to ASTM D4101

Title: GTI SDC GASKET BLOCKOUT 4.5"

for 4.5" GTI corrugated duct and 5" smooth duct

Standard fit for 27AMTS15
Alternate fit for 19AMTS15

Part #: 27-07-03-07
Code: 220489

Date: 03/20/2019

NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Temporary item.
NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Temporary item.

Title: GTI SDC STORAGE CAP 4.5"
for 4.5" GTI corrugated duct and
5" smooth duct
Standard fit for 27AMTS15
Alternate fit for 19AMTS15

Material: Polypropylene - according to ASTM D4101

Part #: 27-07-03-08
Code: 220497

Date: 03/20/2019

NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Temporary item.

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NOTE:

- Thickness is type L, i.e. 0.035" [0.9 mm] backing + 0.043" [1.1 mm] adhesive;
- This drawing is not intended for manufacturing purposes;
- Heat shrink sleeve meets or exceeds FDoT requirements (Table 2.2.1.8-1 Section 960);
- For the installation make reference to manufacturer procedure

Material: Coated Polyolefin Backing - according to FDoT Tab.2.2.1.8-1 Sec.960

Treatment: -

Part # : E-IU-27-07-13

INCH [mm]  mm FOR REFERENCE ONLY

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Date: 03/06/2020
Dimensions: sec.960

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Code: KLNN-125-150-BK

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Code: KLNN-125-150-BK

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Date: 03/06/2020
Dimensions: sec.960

1111 KANE CONCOURSE, GTE 200 - BAY HARBOR ISLAND - 33154 FL

Code: KLNN-125-150-BK

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1111 KANE CONCOURSE, SUITE 200 - BAY HARBOR ISLAND - 33154 FL

Date: 03/06/2020
Dimensions: sec.960

1111 KANE CONCOURSE, GTE 200 - BAY HARBOR ISLAND - 33154 FL

Code: KLNN-125-150-BK

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Date: 03/06/2020
Dimensions: sec.960

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Date: 03/06/2020
Dimensions: sec.960

1111 KANE CONCOURSE, GTE 200 - BAY HARBOR ISLAND - 33154 FL

Code: KLNN-125-150-BK

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GTI STEPLESS COUPLER
Adaptation for 4.50" corrugated duct and 5" smooth plastic duct with 27AMTS15 trumpet

NOTE:
- This drawing is not intended for manufacturing purposes;
- Coupler meets or exceeds FDoT requirements (Section 960-2.2.1.5 and 2.4.3);
- Standard fit for 4.50" [115mm] corrugated plastic duct and 5" smooth plastic duct.

Polypropylene - according to ASTM D4101

Date: 03/20/2019

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Minimum radius of curvature for prefabricated sections of duct: 13 ft (3.96 m)
Minimum radius of curvature for straight sections of duct to be field bent: 30 ft (9.14 m)

NOTE:
- This drawing is not intended for manufacturing purposes;
- Duct meets FDoT requirements (Par. 2.2.1.2 and 2.4.4 Section 960):
  - maximum dimensional ratio (DR) of 17 as per ASTM D3035 or ASTM F714
  - 125 psi rated
  - minimum cell class of 445574C as per ASTM D3350
  - minimum OIT of 40 minutes as per ASTM D3895

Material: High Density Polyethylene- according to ASTM D3350

Title: SMOOTH PLASTIC DUCT 5.563”
for External and Internal Unbonded Systems - Standard fit for 31AMTS15
Alternate fit for 27AMTS15

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NOTE:

- The United States (US) coupler must be used with the corresponding US duct; the European (EU) coupler must be used with the corresponding EU duct;
- The installation procedure is general; reference to manufacturer’s instruction manual for the detailed installation instructions;
- This drawing is not intended for manufacturing purposes;
- Coupler meets FDoT requirements (Par. 2.2.1.5 Section 960):
  
  - 150 psi rated
  - minimum cell class of 445574C as per ASTM D3350
  - minimum OIT of 40 minutes as per ASTM D3895

INSTALLATION

Preparing the duct
1. Scrape the duct up to 0.4” (10mm) beyond the insertion length of the fitting.
2. Clean the welding area and let it dry.
3. Insert the duct ends straight into the fitting for the correct length.
4. Install the aligners in order to keep straight position.

Welding Process
5. Connect the welding cables to the electrofusion coupler connectors and enter the welding parameters in the device.
6. At the end of the welding cycle, disconnect the cables and wait for the cooling.
7. Remove the aligners.
NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.

Material: Polypropylene - according to ASTM D4101

Title: GTI SDC BULKHEAD COUPLER 5.125"
for 5.125" GTI corrugated duct and
5.563" smooth duct
Standard fit for 31AMTS15
Alternate fit for 27AMTS15

Part #: 31-07-03-01
Code: 220531

NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.
GTI SDC MATCHCAST COUPLER 5.125" for 5.125" GTI corrugated duct and 5.563" smooth duct

Standard fit for 31AMTS15
Alternate fit for 27AMTS15

NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.
NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.
NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.

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

Treatment: TPR Blend - according to FDoT Tab.2.2.1.7-1 Sec.960

Title: GTI SDC BOOT 5.125"
for 5.125" GTI corrugated duct and 5.563" smooth duct
Standard fit for 31AMTS15
Alternate fit for 27AMTS15

NOTE:
· All dimensions are measured;
· This drawing is not intended for manufacturing purposes.
NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Temporary item.
NOTE:
- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Temporary item.

Material: Nylon
Treatment: 

Title: GTI SDC MATCHCAST LOAD PLUG 5.125"
for 5.125" GTI corrugated duct and
5.563" smooth duct
Standard fit for 31AMTS15
Alternate fit for 27AMTS15

Dimensions: 

Description

Rev.
Date
0
03/20/19

Drawn
L.C.
1111 KANE CON COURSE, S. TE 205 - BAY HARBOR ISLAND - 33154 FL

Check
T.C.

Part #: 31-07-03-06
Code: 220546
NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes;
- Temporary item.
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Title: GTI SDC STORAGE CAP 5.125"

for 5.125" GTI corrugated duct and
5.563" smooth duct

Standard fit for 31AMTS15
Alternate fit for 27AMTS15

Material: Polypropylene - according to ASTM D4101

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

Date: 03/20/2019

Dimensions: [INCH [mm] FOR REFERENCE ONLY]

Part #: 31-07-03-08
Code: 220547

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