

71017 73010 76007	SDI-HD-068 SDI-HD-069	SDI 4.6A ANCHORAGE	ASTM A 536 GR. 80-55-06 (GALVANIZED)
	SDI-HD-069		
76007		SDI 4.6A TRUMPET	POLYPROPYLENE PER ASTM D4101
	SDI-HD-238	GASKET	BUNA-N PER ASTM D2240 & D412
21001	SDI-HD-148	0.6" STRAND	270KSI STEEL PER ASTM A416, LOW RELAXATION
81001	SDI-HD-021	SDI 0.6" STANDARD 2-PART WEDGE	AISI 11L17 OR 12L14
75008	SDI-HD-070	SDI 4.6A-PC PERMANENT GROUT CAP	NYLON PER ASTM D5989
77008	SDI-HD-149	(2) ¾" x 5" BOLT & WASHER	STAINLESS STEEL, TYPE 316
76019	SDI-HD-236	O-RING SEAL	BUNA-N PER ASTM D2240 & D412
74001	SDI-HD-258	BURSTING REINFORCING	GRADE 60 STEEL PER ASTM A815
74001	SDI-HD-258	BURSTING REINFORCING SUPPORT BAR	GRADE 60 STEEL PER ASTM A815
37002	SDI-HD-185	HEAT SHRINK TUBING (PLA-63-YE)	ADHESIVE LINED POLYOLEFIN
32002	SDI-HD-033	1"x3" (25mmx75mm) CORRUGATED DUCT	POLYPROPYLENE PER ASTM D4101
33002	SDI-HD-039	1"x3" (25mmx75mm) SLIP-ON DUCT COUPLER	POLYPROPYLENE PER ASTM D4101
51001	SDI-HD-189	⅔ " (23mm) GROUT HOSE	HIGH DENSITY POLYETHYLENE PER ASTM D3350
51002	SDI-HD-188	½" (13mm) GROUT HOSE	HIGH DENSITY POLYETHYLENE PER ASTM D3350
52008	SDI-HD-153	½" BALL VALVE (TEMPORARY)	POLYVINYL CHLORIDE
52006	SDI-HD-152	1" BALL VALVE (TEMPORARY)	POLYVINYL CHLORIDE
76022	SDI-HD-236	O-RING SEAL	BUNA-N PER ASTM D2240 & D412
55003	SDI-HD-155	½" (13mm) PLUG	POLYPROPYLENE PER ASTM D4101
55001	SDI-HD-156	¾" (23mm) PLUG	POLYPROPYLENE PER ASTM D4101
53011	SDI-HD-222	½" (13mm) NPT COUPLER (TEMPORARY)	POLYPROPYLENE PER ASTM D4101
57003	SDI-HD-147	$^3\!$	POLYPROPYLENE PER ASTM D4101
76014	SDI-HD-236	O-RING SEAL	BUNA-N PER ASTM D2240 & D412
0000T	N/A	TEFLON TAPE (TEMPORARY)	TEFLON
0000E	N/A	COMMERCIALLY AVAILABLE/COMPATIBLE EPOXY	EPOXY
0000G	N/A	COMMERCIALLY AVAILABLE/COMPATIBLE LITHIUM GREASE	LITHIUM
	75008 77008 76019 74001 37002 32002 33002 51001 51002 52008 52006 76022 55003 55001 53001 53001 53001 53001 0000T 0000E	75008 SDI-HD-070 77008 SDI-HD-149 76019 SDI-HD-236 74001 SDI-HD-258 74001 SDI-HD-258 37002 SDI-HD-185 32002 SDI-HD-033 33002 SDI-HD-185 51001 SDI-HD-188 52006 SDI-HD-153 52006 SDI-HD-152 76022 SDI-HD-153 55003 SDI-HD-156 53011 SDI-HD-156 53011 SDI-HD-156 53011 SDI-HD-147 76014 SDI-HD-147 76014 SDI-HD-236 0000T N/A 0000E N/A	75008 SDI-HD-070 SDI 4.6A-PC PERMANENT GROUT CAP 77008 SDI-HD-149 (2) % " x 5" BOLT & WASHER 76019 SDI-HD-236 O-RING SEAL 74001 SDI-HD-258 BURSTING REINFORCING 74001 SDI-HD-258 BURSTING REINFORCING SUPPORT BAR 37002 SDI-HD-185 HEAT SHRINK TUBING (PLA-63-YE) 32002 SDI-HD-033 1"x3" (25mmx75mm) CORRUGATED DUCT 33002 SDI-HD-189 1"x3" (25mmx75mm) SLIP-ON DUCT COUPLER 51001 SDI-HD-189 ½ " (23mm) GROUT HOSE 51002 SDI-HD-188 ½" (13mm) GROUT HOSE 52008 SDI-HD-153 ½" BALL VALVE (TEMPORARY) 52006 SDI-HD-152 1" BALL VALVE (TEMPORARY) 76022 SDI-HD-155 ½" (13mm) PLUG 55001 SDI-HD-156 ¾" (23mm) WELDABLE GROUT PORT 57003 SDI-HD-147 ¾" (23mm) WELDABLE GROUT PORT 76014 SDI-HD-236 O-RING SEAL 0000T N/A TEFLON TAPE (TEMPORARY)

STEP 1:	HANG ANCHORAGE WITH 2 EACH 🔏 " ALL THREAD.
STEP 2:	INSTALL TRUMPET. MAKE SURE GASKET IS INSTALLED
STEP 3:	PLACE BURSTING STEEL 1" BEHIND ANCHORAGE. ENSU
TEN	IDON.
STEP 4:	PLACE O-RING IN LAST CORRUGATION OF DUCT.
STEP 5:	SLIDE DUCT INSIDE TRUMPET.
STEP 6:	HEAT SHRINK DUCT TO TRUMPET.
STEP 7:	PERFORM VACUUM TEST PER FDOT 462-8.2.1.2
STEP 8:	INSTALL STRAND, LEAVE SUFFICIENT STRAND FOR STR
STEP 9:	ENSURE WEDGE CAVITIES ARE RUST FREE AND CLEAN
STEP 10:	PUSH WEDGES OVER STRAND AND AGAINST THE ANCH

STEP-BY-STEP SYSTEM INSTALLATION PROCEDURE

- STEP 13: INSTALL VENTS. (SEE NOTE: b)
- STEP 14: INSTALL GROUT CAP BY TORQUEING BOLTS TO 15 FT-LB
- STEP 15: PERFORM PRESSURE TEST PER FDOT 462-8.2.1.2 STEP 16: INSTALL TEMPORARY GROUT INJECTION HARDWARE.
- STEP 17: INJECT GROUT PER GROUT INJECTION PROCEDURE.
- DRAWINGS ..

NOTES:

- a.
- b. EVERY TEMPORARY GROUT HOSE/COUPLER/PLUG THREADS. THREAD INTO ALL CONNECTIONS. DO NOT INJECT THROUGH VENTS.
- c.
- d. e.
- REQUIREMENTS.
- f. TENDON FILLER MATERIAL IS GROUT.

D BETWEEN TRUMPET AND ANCHORAGE. SURE BURSTING STEEL IS CONCENTRIC AND PARALLEL TO PATH OF

RESSING EQUIPMENT. IN PRIOR TO WEDGE INSTALLATION. STEP 10: PUSH WEDGES OVER STRAND AND AGAINST THE ANCHORAGE USING A 3/" PIPE. STEP 11: STRESS TENDONS AFTER CONCRETE HAS REACHED REQUIRED STRENGTH PER DRAWINGS AND/OR SPECIFICATION. STEP 12: AFTER STRESSING AND APPROVAL FROM OWNERS REPRESENTATIVE, CUT STRAND TAILS 1" FROM FACE OF ANCHORAGE.

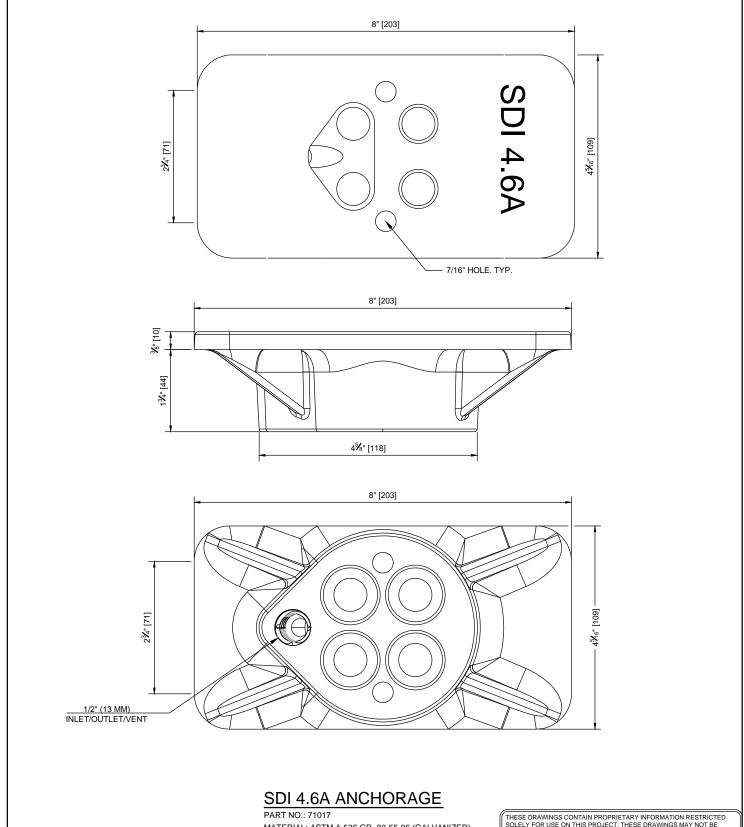
STEP 18: REMOVE ALL TEMPORARY HARDWARE ONCE GROUTING PROCEDURE IS COMPLETE AND CAP OR PLUG PORTS PER

LUBRICATE ALL O-RINGS FOR EASE OF INSTALLATION. EPOXY IS TO BE USED ON EVERY PERMANENT GROUT HOSE/COUPLER/PLUG THREADS, TEFLON TAPE IS TO BE USED ON

MAKE SURE O-RING AND WASHER IS INSTALLED WITH GROUT CAP BOLT. VENTS SHOWN FOR REFERENCE ONLY. FOR ACTUAL LOCATION, SEE PLACING DRAWINGS. STEP-BY-STEP INSTALLATION PROCEDURE ARE GENERIC, FOLLOW FDOT SPECIFICATIONS AND PROJECT SPECIFIC

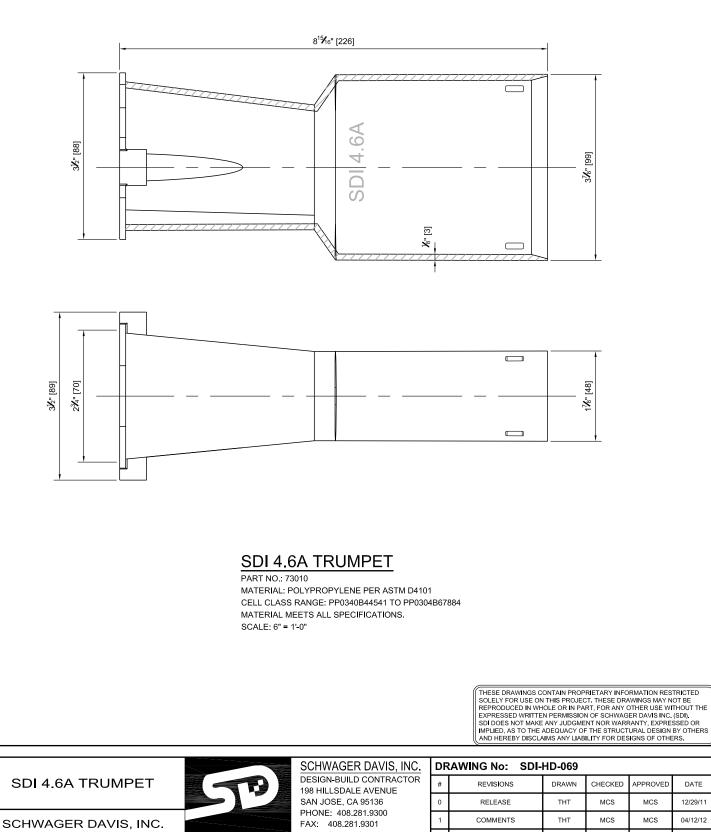
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		SCHWAGER DAVIS. INC.	DKAV	DRAWING No: SDI-HD-273	HD-273			
	P	DESIGN-BUILD CONTRACTOR	#	REVISIONS	DRAWN	DRAWN CHECKED APPROVED DATE	APPROVED	DATE
FLAI DUCI GRUUIED STSIEM		C 198 HILLSDALE AVENUE	0	RELEASE	ASL	MSC	MSC	0824/18
		PHONE: 408.281.9300						
SCHWAGER DAVIS, INC. POST-TENSION SYSTEM I IRBARY	SCHWAGER	FAX: 408.281.9301						
	DAVIS INC.	www.sciiwageidavis.com						



MATERIAL: ASTM A 536 GR. 80-55-06 (GALVANIZED) MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 6" = 1'-0" THESE DRAWINGS CONTAIN PROPRIETARY INFORMATION RESTRICTED SOLELY FOR USE ON THIS PROJECT. THESE DRAWINGS MAY NOT BE REPRODUCED IN WHOLE OR IN PART, FOR ANY OTHER USE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF SCHWAGER DAVIS INC. (SDI). SDI DOES NOT MAKE ANY JUDGMENT NOR WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEOLOXCY OF THE STRUCTURAL DESIGN BY OTHERS AND HEREBY DISCLAIMS ANY LIABILITY FOR DESIGNS OF OTHERS.

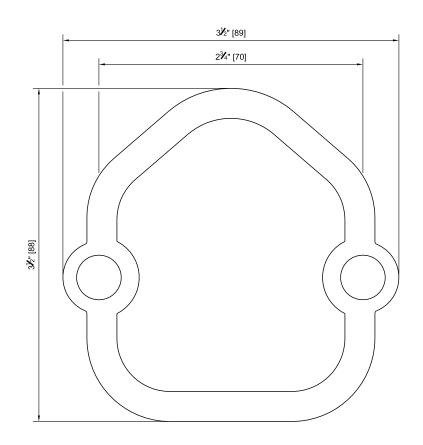
SCHWAGER DAVIS, INC. DRAWING No: SDI-HD-068 DESIGN-BUILD CONTRACTOR SDI 4.6A ANCHORAGE # REVISIONS DRAWN CHECKED APPROVED DATE 198 HILLSDALE AVENUE SAN JOSE, CA 95136 0 RELEASE THT MCS MCS 12/29/11 PHONE: 408.281.9300 1 UPDATE CSM MSC MSC 05/26/15 SCHWAGER DAVIS, INC. FAX: 408.281.9301 POST-TENSION SCHWAGER www.schwagerdavis.com 2 UPDATE JSA MSC MSC 06/13/18 SYSTEM LIBRARY DAVIS INC.



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	AWING NO. SDI-	HD-009			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	тнт	MCS	MCS	12/29/11
1	COMMENTS	тнт	MCS	MCS	04/12/12
2	UPDATE	CSM	MSC	MSC	05/26/15
3	UPDATE	JSA	MSC	MSC	06/13/18



SDI 4.6A TRUMPET GASKET

PART NO.: 76007 MATERIAL: 1/8" THICK - BUNA-N PER ASTM D2240 & D412 MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 1'-0" = 1'-0"

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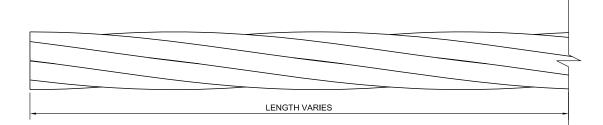
SDI 4.6A TRUMPET GASKET

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DR	AWING No: SDI-	HD-238			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	01/15/15
1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	CSM	MSC	MSC	06/19/18





0.6" BARE STRAND

PART NO.: 21001 MATERIAL: 270 KSI LOW RELAXATION STEEL ACCORDING TO ASTM A416 MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 1'-0" = 1'-0"

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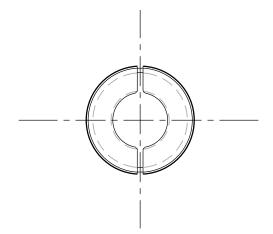
0.6" BARE STRAND

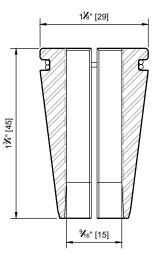
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DR	AWING No: SDI-	HD-148			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	04/02/14
1	UPDATE	CSM	MSC	MSC	05/26/15





SDI 0.6" WEDGE (2-PART)

PART NO.: 81001 MATERIAL: AISI 11L17 OR 12L14 MATERIAL MEETS ALL SPECIFICATIONS. PART IDENTIFICATION MARKED ON CONTAINER SCALE: 1'-0" = 1'-0"

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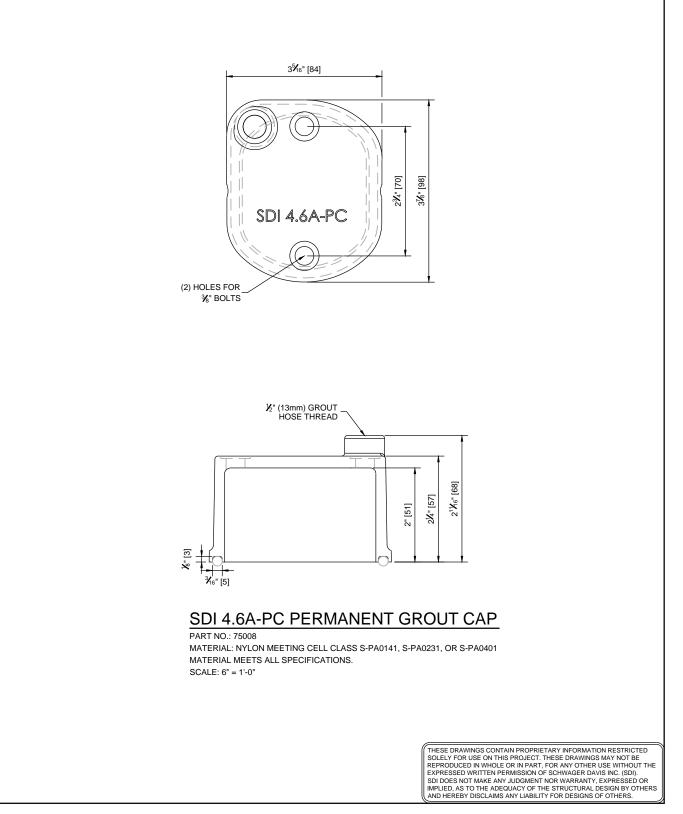
SDI 0.6" WEDGE (2-PART)

SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY



SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-021			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MCS	GAS	MCS	03/14/11
1	COMMENTS	CMS	MCS	MCS	07/05/13
2	UPDATE	CSM	MSC	MSC	05/26/15
3	UPDATE	JSA	MSC	MSC	06/14/18



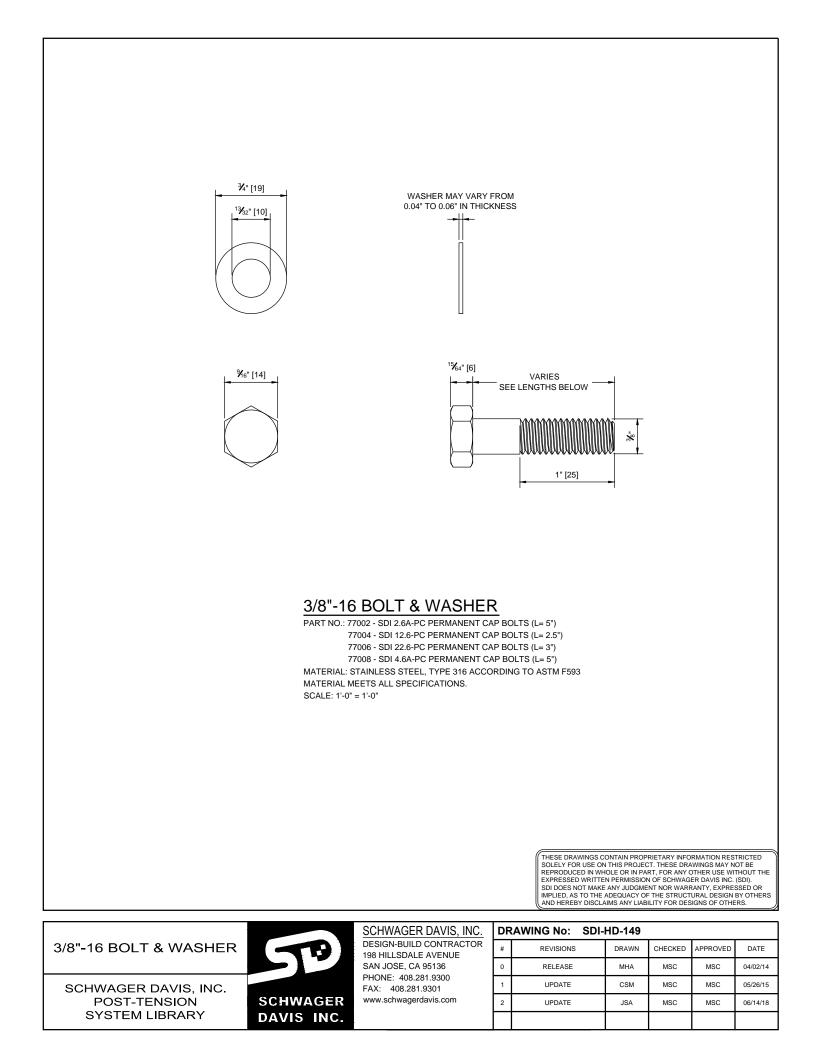
SDI 4.6A-PC PERMANENT GROUT CAP

SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY



SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-070			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
1	REVISED	тнт	MCS	MCS	05/22/12
2	REVISED	тнт	MCS	MCS	08/13/12
3	UPDATE	CSM	MSC	MSC	05/26/15
4	UPDATE	JSA	MSC	MSC	06/15/18



% " FRACTIONAL	PART NO.	DASH NO.	FRACTIONAL SIZE, ID x OD	ACTUAL SIZE ID x OD	WIDTH	DUROMETER
(0.139" ACTUAL)	76022	2-204	∛" × %"	0.359" x 0.637"	%" FRACTIONAL (0.139" ACTUAL)	70
(())= 8	76023	2-206	½" x ¾"	0.484" x 0.762"	⅛ " FRACTIONAL (0.139" ACTUAL)	70
Pin Pin	76019	2-339	3¼" × 3½"	3.225" x 3.645"	⅔ ₁₆ " FRACTIONAL (0.210" ACTUAL)	70
	76014	2-407	2¼" × 2¾"	2.225" x 2.775"	¼" FRACTIONAL (0.275" ACTUAL)	70
	76016	2-415	3 1⁄ 4" × 3 3⁄ 4"	3.225" x 3.775"	¼" FRACTIONAL (0.275" ACTUAL)	70
%6" FRACTIONAL (0.210" ACTUAL	76017	2-422	4 <mark>%</mark> " x 45 <mark>%</mark> "	4.100" x 4.650"	¼" FRACTIONAL (0.275" ACTUAL)	70
	76018	2-427	4⅔" x 5¼"	4.725" x 5.275"	¼" FRACTIONAL (0.275" ACTUAL)	70
	76025	2-432	5 % " x 57%"	5.350" x 5.900"	¼" FRACTIONAL (0.275" ACTUAL)	70
t	76008	2-435	5∛4" x 6¼"	5.725" x 6.275"	¼" FRACTIONAL (0.275" ACTUAL)	40
	76009	2-440	6¾" x 7¼"	6.725" x 7.275"	¼" FRACTIONAL (0.275" ACTUAL)	40
¼ " FRACTIONAL (0.275" ACTUAL)	76010	2-442	7¼" x 7¾"	7.225" x 7.775"	<mark>¼</mark> " FRACTIONAL (0.275" ACTUAL)	40
	76002	2-444	7 ⅔ " x 8 <mark>¼</mark> "	7.725" x 8.275"	<mark>2</mark> " FRACTIONAL (0.275" ACTUAL)	70
	76011	2-445	8" x 8½"	7.975" x 8.525"	¼" FRACTIONAL (0.275" ACTUAL)	40
	76026	2-446	8 ½ ″ × 9″	8.475" x 9.025"	¼" FRACTIONAL (0.275" ACTUAL)	40
	76004	2-448	9 ½ ″ x 10″	9.475" x 10.025"		70
0.256"	76024	2-452	11 ½ " x 12"	11.475" x 12.025"	¼" FRACTIONAL (0.275" ACTUAL)	70
	76003	CUSTOM	-	8.747" x 9.259"	0.256"	70
	76005	CUSTOM	-	10.226" x 10.738"	0.256"	70
Mail Mail	76029	2-228	2¼" x 2½"	2.250" x 2.500"	% ₄ " FRACTIONAL (0.139" ACTUAL)	70
	76030	2-425	4 ½ " x 5"	4.475" x 5"	¼" FRACTIONAL (0.275" ACTUAL)	70

STANDARD O-RINGS

MATERIAL: BUNA-N MATERIAL MEETS ALL SPECIFICATIONS. THESE DRAWINGS CONTAIN PROPRIETARY INFORMATION RESTRICTED SOLELY FOR USE ON THIS PROJECT. THESE DRAWINGS MAY NOT BE REPRODUCED IN WHOLE OR IN PART, FOR ANY OTHER USE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF SCHWAGER DAVIS INC. (SDI). SDI DOES NOT MAKE ANY JUDGMENT NOR WARRANTY, EXPRESSED OR IMPLIED. AS TO THE ADEOUACY OF THE STRUCTURAL DESIGN BY OTHERS AND HEREBY DISCLAIMS ANY LIABILITY FOR DESIGNS OF OTHERS.

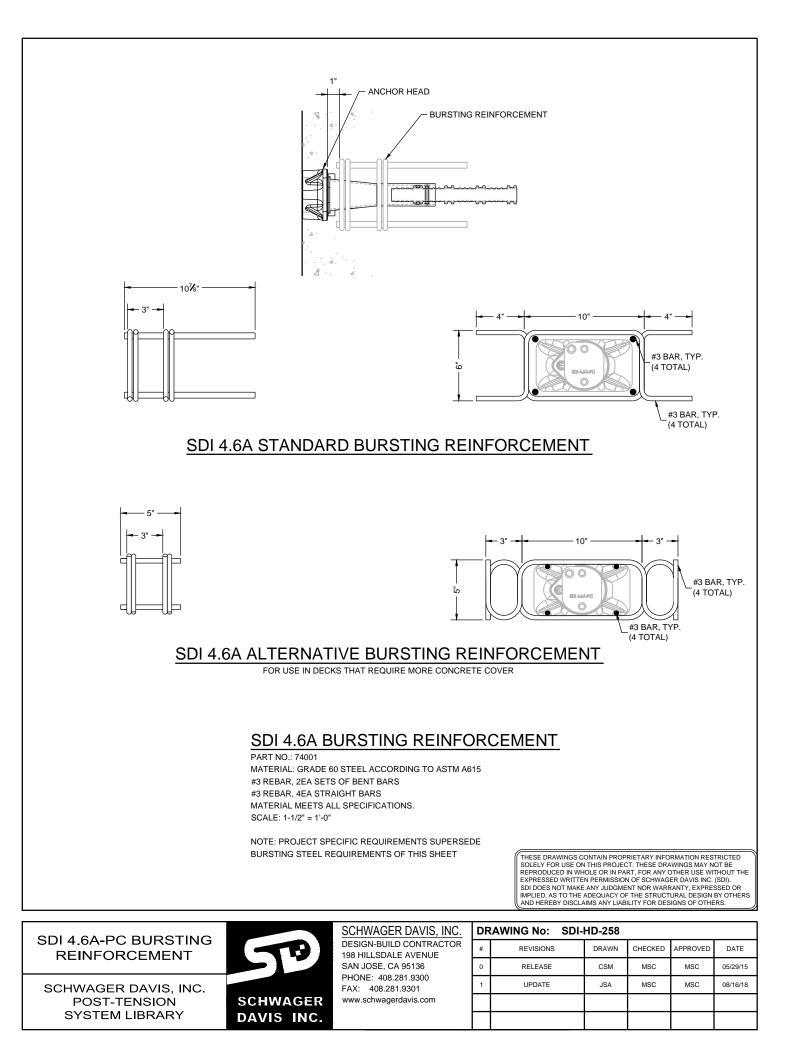
STANDARD O-RINGS

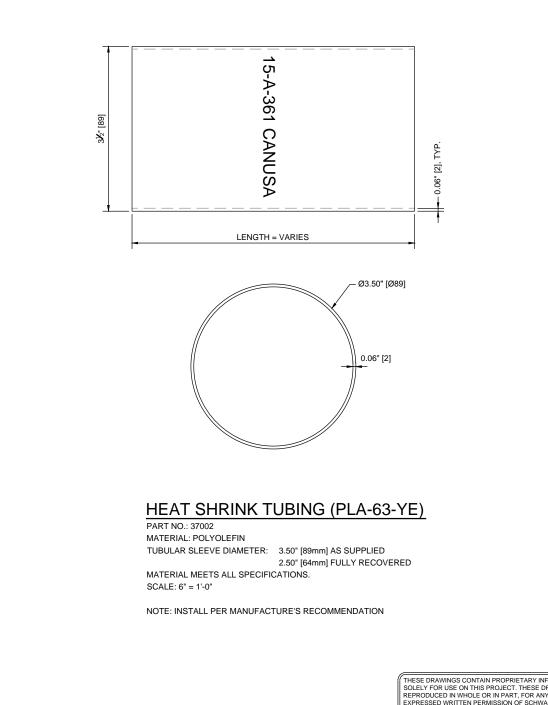
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	#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
	0	RELEASE	MHA	MSC	MSC	01/15/15
	1	UPDATE	CSM	MSC	MSC	05/26/15
	2	UPDATE	CSM	MSC	MSC	06/07/16
	3	UPDATE	JSA	MSC	MSC	06/20/18





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HEAT SHRINK TUBING (PLA-63-YE)

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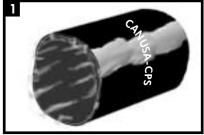
DR	AWING No: SDI-	HD-185			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	04/04/14
1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	JSA	MSC	MSC	06/12/18



CanusaTube[™]- PLA

Tubular sleeve for pipeline corrosion protection

Product Description



CanusaTubes™ are shipped with an inner release liner for protection from contamination.

Storage & Safety Guidelines

2 To ensure maximum performance, store Canusa products in a dry, ventilated area. Keep products sealed in original cartons and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements. Avoid prolonged storage at temperatures above 35°C (95°F) or below -20°C (-4°F). Product installation should be done in accordance with

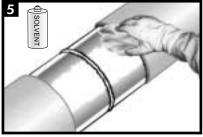
These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

Surface Preparation

local health and safety regulations.

4 - 1m -1 - 1m -1

Before welding together the carrier pipe, slide the CanusaTube sleeve at least 1 m away from the cutback area of the joint



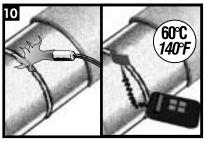
Ensure that the PE coating edges are beveled to 30°. Clean exposed steel and adjacent pipe coating with a solvent cleanser to remove the presence of oil, grease, and other contaminants.

Sleeve Installation



Wipe clean or air blast the steel and pipe coating to remove foreign contaminants.

Pre-Heat



Pre-Heat the joint area to a minimum of 60°C (140°F). Using a temperature measuring device, ensure the correct temperature is reached on the steel and at least 50mm (2") on each side of the sleeve.



Ensure that there is no dirt or moisture inside the tube and that the tube is not cut. If the sleeve is not useable, a one-piece Wrapid Sleeve or Canusa Wrap sleeve should be used.

Sleeve Installation

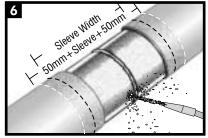


Completely remove the inner release liner from the sleeve and centre the sleeve over the area to be sealed

Equipment List



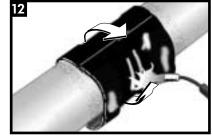
Propane tank, hose, torch & regulator Appropriate tools for surface abrasion Knife, roller, rags & approved solvent cleanser Digital thermometer with suitable probe Standard safety equipment; gloves, goggles, hard hat, etc.



Ensure that the pipe dry before cleaning. Prepare the steel joint area to a minimum of St3 /SP3. Lightly abrade the pipe coating adjacent to the weld area to a distance of 50mm (2") beyond each end of the sleeve width.

Flame Intensity & Torch Size





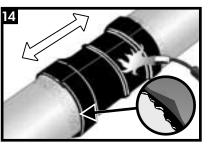
Using the appropriate sized torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes.

CanusaTube[™] - PLA

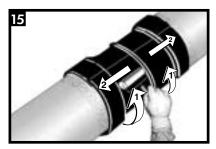
Sleeve Installation



Continue heating from the centre toward one end of the sleeve until recovery is complete. In a similar manner, heat and shrink the remaining side. With a yellow backing, a pink-orange shade will appear when the proper temperature has been reached.

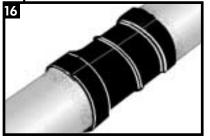


Shrinking has been completed when the adhesive begins to ooze at the sleeve edges all around the circumference. Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.



While the sleeve is still hot and soft, use a hand roller to firmly roll the sleeve surface and push any trapped air up and out of the sleeve, as shown above. If necessary, reheat to roll out air.

Inspection



Visually inspect the installed sleeve for the following:

- Sleeve is in full contact with the steel joint.
- Adhesive flows beyond both sleeve edges.
- No cracks or holes in sleeve backing.

Backfilling Guidelines

17

After shrinking is complete, allow the sleeve to cool for 2 hours prior to lowering and backfilling. To prevent damage to the sleeve, use selected backfill material, (no sharp stones or large particles) otherwise an extruded polyethylene mesh or other suitable shield should be used.



A SHAWCOR COMPANY

Canada

CANUSA-CPS a division of SHAWCOR LTD. 25 Bethridge Road Rexdale, Ontario M9W 1M7, Canada Tel: +1 (416) 743-7111 Fax: +1 (416) 743-5927

U.S.A./Latin America CANUSA-CPS a division of SHAWCOR INC. 2408 Timberloch Place Building C-8

Building C-8 The Woodlands, Texas 77380, U.S.A. Tel: +1 (281) 367-8866 Fax: +1 (281) 367-4304

Europe/Middle East

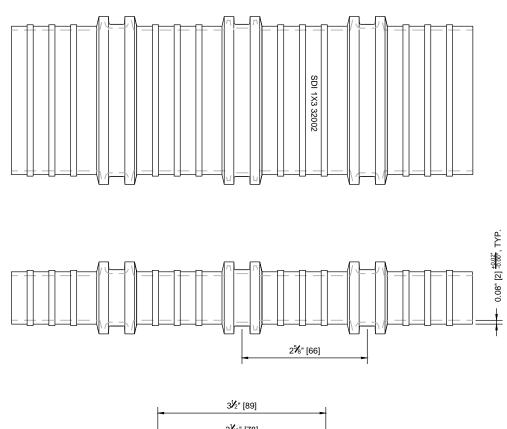
CANUSA-CPS a division of Canusa Systems Ltd. Unit 3, Sterling Park Gatwick Road Crawley, West Sussex England RH10 9QT Tel: +44 (1293) 541254 Fax: +44 (1293) 541777

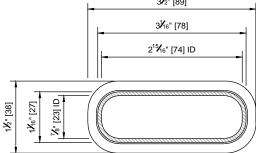
www.canusacps.com

Asia/Pacific

CANUSA-CPS BrederoShaw (S) Pte Ltd 101 Thomson Road #17-01/02, United Square Singapore 307591 Tel +65-6732-2355 Fax +65-6732-9073

Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the installation guide when used in compliance with Canusa's written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith. Canusa's liability is stated in the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this installation guide to be used as a guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product. E&OE Printed on recycled paper. The Recyclable. IG-CTpla-rev011





SDI 1x3 CORRUGATED PLASTIC DUCT

PART NO.: 32002 MATERIAL: POLYPROPYLENE CELL CLASS RANGE: PP0340B44541 TO PP0340B67884 MATERIAL MEETS ALL SPECIFICATIONS. MINIMUM BENDING RADIUS: 8 FT SCALE: 6" = 1'-0"

> THESE DRAWINGS CONTAIN PROPRIETARY INFORMATION RESTRICTED SOLELY FOR USE ON THIS PROJECT. THESE DRAWINGS MAY NOT BE REPRODUCED IN WHOLE OR IN PART, FOR ANY OTHER USE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF SCHWAGER DAVIS INC. (SDI). SDI DOES NOT MAKE ANY JUDGMENT NOR WARRANTY, EXPRESSED OR IMPLIED. AS TO THE ADEOUACY OF THE STRUCTURAL DESIGN BY OTHERS AND HEREBY DISCLAIMS ANY LIABILITY FOR DESIGNS OF OTHERS.

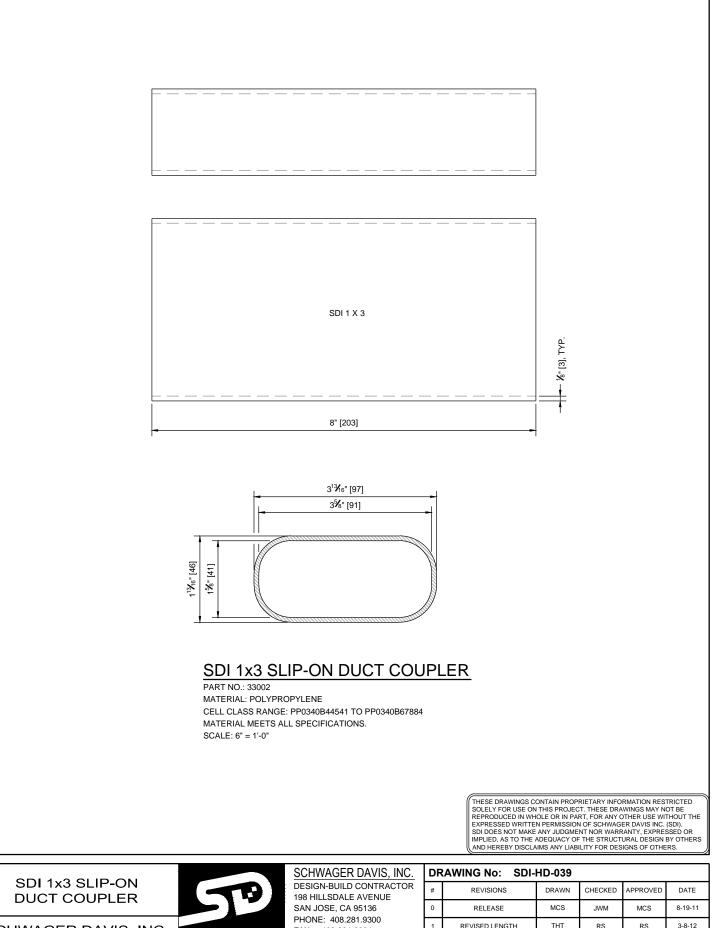
SDI 1x3 CORRUGATED PLASTIC DUCT

SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY



SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-033			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MCS	JWM	MCS	08/08/11
1	REVISED	MCS	JWM	MCS	11/11/11
2	UPDATE	CSM	MSC	MSC	05/26/15
3	UPDATE	JSA	MSC	MSC	06/12/18

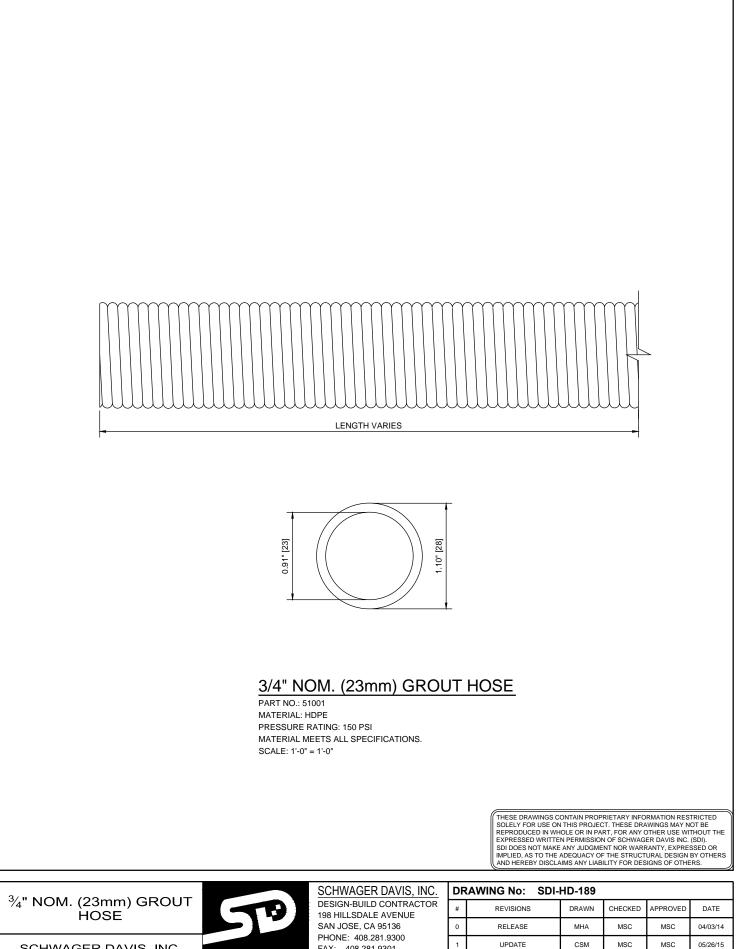


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DRAWING No: SDI-HD-039							
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE		
0	RELEASE	MCS	JWM	MCS	8-19-11		
1	REVISED LENGTH	ТНТ	RS	RS	3-8-12		
2	UPDATE	CSM	MSC	MSC	5-26-15		
3	UPDATE	JSA	MSC	MSC	6-13-18		



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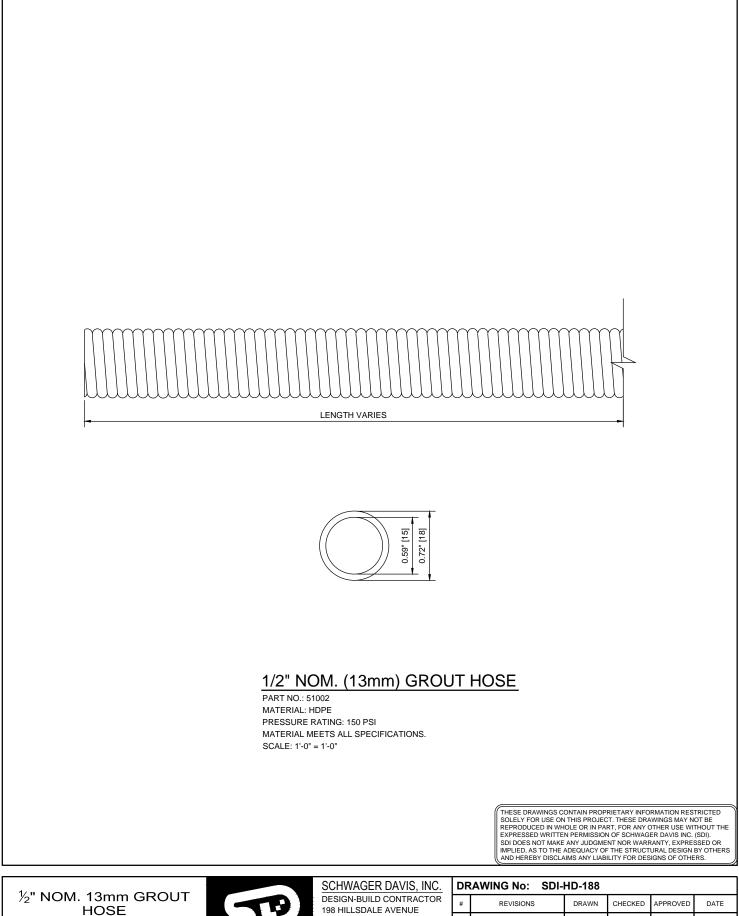
UPDATE

JSA

MSC

MSC

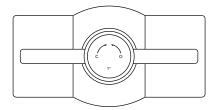
06/18/18

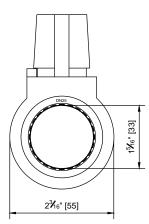


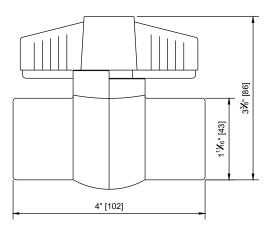
SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY



DR	AWING No: SDI-	HD-188			
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0	RELEASE	MHA	MSC	MSC	04/03/14
1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	JSA	MSC	MSC	06/12/18







<u>1" DIAMETER BALL VALVE (TEMPORARY)</u>

PART NO.: 52006 MATERIAL: PVC PRESSURE RATING: 150 PSI THREAD SIZE: 1" NPT MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 6" = 1'-0"

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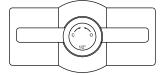
VALVE (TEMPORARY) SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY

1" DIAMETER BALL

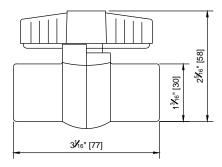


SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-152			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	04/02/14
1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	JAS	MSC	MSC	06/12/18







1/2" DIAMETER BALL VALVE (TEMPORARY)

PART NO.: 52008 MATERIAL: PVC PRESSURE RATING: 150 PSI MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 6" = 1'-0"

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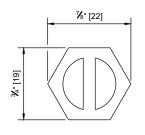
1/2" DIAMETER BALL VALVE (TEMPORARY)

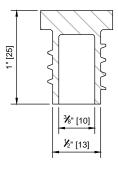
SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY



SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DRAWING No: SDI-HD-153						
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	0	RELEASE	MHA	MSC	MSC	04/02/14
	1	UPDATE	CSM	MSC	MSC	05/26/15
	2	UPDATE	JSA	MSC	MSC	06/18/18





1/2" NOM. (13mm) GROUT TUBE PLUG

PART NO.: 55003 MATERIAL: POLYPROPYLENE CELL CLASS RANGE: PP0340B44541 TO PP0340B67884 PRESSURE RATING: 150 PSI MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 1'-0" = 1'-0"

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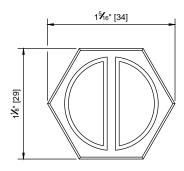
1/2" NOM. (13mm) GROUT TUBE PLUG

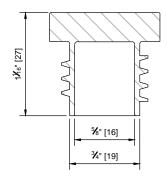
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SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-155			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	04/02/14
1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	JSA	MSC	MSC	06/18/18





3/4" NOM. (23mm) GROUT TUBE PLUG

PART NO.: 55001 MATERIAL: POLYPROPYLENE CELL CLASS RANGE: PP0340B44541 TO PP0340B67884 PRESSURE RATING: 150 PSI MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 1'-0" = 1'-0"

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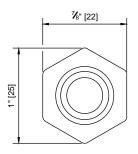
³⁄₄" NOM.(23mm) GROUT TUBE PLUG

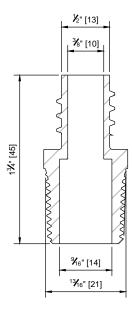
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SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-156			
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0	RELEASE	MHA	MSC	MSC	04/02/14
1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	JSA	MSC	MSC	06/19/18





1/2" NOM. (13mm) NPT COUPLER

PART NO.: 53011 MATERIAL: POLYPROPYLENE CELL CLASS RANGE: PP0340B44541 TO PP0340B67884 PRESSURE RATING: 150 PSI MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 1'-0" = 1'-0"

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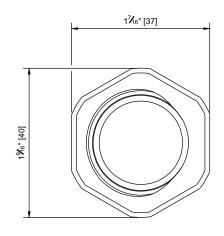
1/2" NOM. (13mm) NPT COUPLER

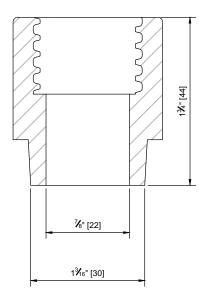
SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY



SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-222			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	10/10/14
1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	JSA	MSC	MSC	06/19/18





PP WELDABLE GROUT PORT WITH 3/4" (23mm) GROUT THREAD

PART NO.: 57003 MATERIAL: POLYPROPYLENE CELL CLASS: PP0340B44541 TO PP0340B67884 PRESSURE RATING: 150 PSI MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 1'-0" = 1'-0"

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PP WELDABLE GROUT PORT WITH $\frac{3}{4}$ " (23mm) GROUT THREAE

> SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY



SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-147			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	03/25/14
1	UPDATE	CSM	MSC	MSC	05/26/14
2	UPDATE	JSA	MSC	MSC	06/20/18

www.lsc-online.com

Technical Product Information

RED-i PT CABLE COATING GREASE

RED-/ PT CABLE COATING IS SPECIALLY FORMULATED FOR THE POST TENSIONING CONSTRUCTION INDUSTRY, AND EXCEEDS THE POST TENSIONING INSTITUTE (PTI) SPECIFICATIONS IN CORROSION PROTECTION FOR UNBONDED AND SINGLE-STRAND TENDONS IN CORROSIVE SERVICE.



Product Description: RED-i PT CABLE COATING is a premium lithium grease fortified with effective corrosion inhibitors. The coating is specifically designed to provide extended protection against corrosion of metal cables or any metallic surface exposed to moisture.

Features:

- Adhesive properties protects metal surfaces from air, moisture, and sea water.
- · Excellent corrosion and rust inhibition properties.
- · Exceeds PTI specifications.
- Member Post Tensioning Institute.
- · High dropping point.
- · Contains antimicrobial agent.

Typical Uses:

- Preserves metallic cables and wires exposed to corrosive environments.
- Preserves steel reinforcement bars or rods used for concrete structures against corrosion.
- Recommended for use in marine and construction industries.

Typical Specifi	cations:			
GRADE, NLGI	2			
Penetration @ 77° F. (ASTM Worked)	265-295	-		
Dropping Point, ASTM D-2265, °F.	383			
Color	Amber			
Texture	Butter			
Appearance	Smooth			
Soap Type	Lithium			
Soap, %	7.0			
Rust Test, ASTM D-1743	Pass			
Corrosion Test, ASTM B-117	Pass (No Rust)			
Soak Test, ASTM B-117 Modified	Pass			
Emulsification Of Coating	None			
Oil Separation, FTM 321.2 , Wt.%	0.5			
Flash Point, ASTM D-92, Coc, °F	350			
Water Content, ASTM D-95, Wt.%	<0.1			
Base Oil Viscosity				
cSt. @ 40° C.	321.0			
cSt. @ 100° C.	21.0			
SUS@100° F.	74			
Viscosity Index	<0.5			
Chlorides, PPM ASTM D-512	<0.1			
Nitrates, PPM, ASTM D3867	8.54			
Tensile Strength Change Of Polymer, ASTM D638				

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY.

SIMPSON Strong Tie

SET High Strength Epoxy-Tie[®] Anchoring Adhesive

SET Epoxy-Tie® epoxy is a two-component, 1:1 ratio, high solids, epoxy-based adhesive for use as a high strength, non-shrink anchor grouting material. Resin and hardener are dispensed and mixed simultaneously through the mixing nozzle. SET meets or exceeds the requirements of ASTM C-881 specification for Type I, II, IV and V, Grade 3, Class B and C.



USES

- Threaded-rod anchoring
- Rebar doweling
- Bonding hardened concrete to hardened concrete
- Pick-proof sealant around doors, windows and fixtures
- Paste-over for crack injection

CODE REPORTS

- ICC Evaluation Service <u>ESR-1772</u> (formerly ICBO-ES ER-5279) (PDF) (CMU & URM)
- City of L.A. <u>RR25279</u> (PDF)
- Caltrans approved
- Florida Statewide Product Approval <u>FL11506.4</u>
- multiple DOT listings
- NSF/ANSI Standard 61 (216 in² /1000 gal) (PDF), except SET1.7KTA
- SET-PAC EZ[™] adhesive covered by ICC-ES, City of L.A. and NSF/ANSI listings only

The <u>load tables</u> list values based upon results from the most recent testing and may not reflect those in current code reports. Where code jurisdictions apply, consult the current

LINKS:

- Supplemental Topics for Adhesive Anchors
- Estimating Guide
- Limited Warranty Information
- Tension and Shear Load Tables
- Load-Adjustment Factors
- Documents:
 - Anchor Catalog Section (PDF)
 - Product Submittal (PDF)
 - Material Safety Data Sheet: SET (PDF)
 - Material Safety Data Sheet: SET en Español (PDF)
 - <u>SET-PAC-EZTM Epoxy-Tie® Anchoring Adhesive</u> Flier (PDF)
 - <u>Rebar Yield and Tensile Strength Embedments</u> Technical Bulletin (PDF)
 - Rebar Yield and Tensile Strength Embedments (Canada) Technical Bulletin (PDF)
 - Anchor Tension Loads in Masonry Chair Block Technical Bulletin (PDF)
- Free Softw are:
 - Anchor Designer and another and another a
 - Adhesive Cartridge Quantity Estimator

SET High Strength Epoxy-Tie® Anchor...

reports for applicable load values.

APPLICATION

Surfaces to receive epoxy must be clean. For installations in or through standing water, see <u>Supplemental Topics for</u> <u>Adhesive Anchors</u> for details. The base material temperature must be 40° F or above at the time of installation. For best results, material should be 70° - 80° F at the time of application. Cartridges should not be immersed in water to facilitate warming. To warm cold material, the cartridges should be stored in a warm, uniformly heated area or storage container for a sufficient time to allow epoxy to warm completely. Mixed material in nozzle can harden in 5-7 minutes at a temperature of 40° F or above.

TEST CRITERIA

Anchors installed with SET Epoxy-Tie® adhesive have been tested in accordance with ICC-ES's *Acceptance Criteria for Adhesive Anchors (AC58)* for the following:

- Seismic/wind loading
- Long-term creep at elevated-temperature
- Static loading at elevated-temperature
- Damp and water-filled holes
- Freeze-thaw conditions
- Critical and minimum edge distance and spacing

In addition, anchors installed with SET Epoxy-Tie® adhesive have been tested in accordance with ICC-ES's *Acceptance Criteria for Unreinforced Masonry Anchors (AC60)*.

PROPERTY	TEST METHOD	RESULTS
Consistency	ASTMC 881	Non-sag/ thixotropic paste
Heat deflection	ASTMD 648	136° F (58° C)
Bond strength (moist cure)	ASTMC 882	3,218 psi (2 days) 3,366 psi (14 days)
Water absorption	ASTMD 570	0.110% (24 hrs)
Compressive yield strength	ASTM D 695	5,065 psi (24 hours) 12,650 psi (7 days)
Compressive modulus	ASTM D 695	439,000 psi (7 days)
Gel time (75° F)	ASTMC 881	30 min - 60 gram mass 60 min - thin film

ACCESSORIES / RELATED PRODUCTS

- Dispensing Tools
- Mixing Nozzles
- Plastic Anchoring Screens
- Steel Anchoring Screens
- Hole Cleaning Brushes

SUGGESTED SPECIFICATIONS

Anchoring adhesive shall be a two-component high-solids epoxy based system supplied in manufacturer's standard cartridge and dispensed through a static-mixing nozzle supplied by the manufacturer. Epoxy shall meet the minimum requirements of ASTM C-881 specification for Type I, II, IV, and V, Grade 3, Class B and C and must develop a minimum 12,650 psi compressive yield strength after 7 day cure. Epoxy must have a heat deflection temperature of a minimum 136°F (58°C). Adhesive shall be SET Epoxy-Tie® adhesive from Simpson Strong-Tie, Pleasanton, CA. Anchors shall be installed per Simpson Strong-Tie instructions for SET Epoxy-Tie® adhesive.

ASD DESIGN EXAMPLE

For design example, click here.

INSTALLATION

IMPORTANT For installation instructions, <u>click here</u>.

SHELF LIFE

24 months from date of manufacture in unopened side-byside cartridge. SET-PAC EZ[™] cartridge - 24 months from date of manufacture, unopened.

STORAGE CONDITIONS

For best results store between 45° F - 90° F. To store partially used cartridges, leave hardened nozzle in place. To re-use, attach new nozzle.

COLOR

Resin – white, hardener – black When properly mixed SET adhesive will be a uniform light gray color.

CLEAN UP

Uncured material – Wipe up with cotton cloths. If desired scrub area with abrasive, waterbased cleaner and flush with water. If approved, solvents such as ketones (MEK, acetone, etc.), lacquer thinner or adhesive remover can be used. DO NOT USE SOLVENTS TO CLEAN ADHESIVE FROM SKIN. Take appropriate precautions when handling flammable solvents. Solvents may damage surfaces to which they are applied. Cured material – Chip or grind off surface.

CHEMICAL RESISTANCE

Very good to excellent against distilled water, inorganic acids and alkalis. Fair to good against organic acids and alkalis, and many organic solvents. Poor against ketones. For more detailed information download <u>Technical Bulletin</u> <u>T-SAS-CHEMRES08</u> (PDF).

SET Cartridge Systems

Model No.	Capacity ounces (cubic inches)	Cartridge Type	Carton Quantity	Dispensing Tool(s)	Mixing ⁴ Nozzle
SET1.7KTA	1.7 (3.1)	side-by-side	12	Adaptor included for standard caulking tool	EMN1.7 (2 included)
SET-PAC-EZ	8.5 (16.2)	single	12	CDT10 or high quality standard caulking tool	2 included
SET22	22 (39.7)	side-by-side	10	EDT22B, EDT22AP, or EDT22CKT	EMN22i
SET56	56 (101.1)	side-by-side	6	EDT56AP	EMN22i or EMN50

1. Bulk containers also available, contact Simpson Strong-Tie for details.

- 2. Cartridge and bulk estimation guides are available.
- 3. <u>Detailed information</u> on dispensing tools, mixing nozzles and other adhesive accessories is available.
- 4. Use only appropriate Simpson Strong-Tie mixing nozzle in accordance with Simpson's instructions. Modification or improper use of mixing nozzle may impair epoxy performance.

Cure Schedule

Base M Tempe	Cure Time		
°F	°C	· IIIIIe	
40	4	72 hrs.	
65	18	24 hrs.	
85	29	20 hrs.	
90	32	16 hrs.	

In-Service Temperature Sensitivity

Base Material Temperature		Percent Allowable	
°F	°C	Load	
40	4	100%	
70	21	100%	
110	43	100%	
135	57	75%	
150	66	44%	
180	82	20%	

- 1. Refer to temperature sensitivity chart for allowable bond strength reduction for temperature. See Supplemental Topics for Adhesive Anchors.
- 2. Percent allowable load may be linearly interpolated for intermediate base material temperatures.
- 3. $^{\circ}C = (^{\circ}F-32) / 1.8$

top 🛦

Printed March 25, 2011 from http://w w w .simpsonanchors.com/catalog/adhesives/set/

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POLY-TEMP[®] MD MEDIUM DENSITY THREAD SEAL TAPE

WWW.ANTISEIZE.COM

Product Description

POLY-TEMP[®] MD Medium Density Thread Seal Tape is a general purpose PTFE Thread Seal Tape designed to be used on all types of metal and plastic pipe threads.

Our **POLY-TEMP**[®] Tapes are made from 99.9% virgin PTFE resins for optimum purity and performance. **POLY-TEMP**[®] **MD** Medium Density Thread Seal Tape is malleable to easily conform to thread profiles to ensure a positive seal.

Because **POLY-TEMP**[®] **MD** Medium Density Thread Seal Tape is composed of pure PTFE, it touts an extremely broad range of chemical compatibilities and is unaffected by most chemicals and concentrations.

POLY-TEMP[®] MD Medium Density Thread Seal Tape is our most popular grade of thread sealing tape and has been Industry Leader for over 30 years.

Features & Benefits

- Meets FDA and USDA requirements
- UL Listed
- Ideal for all tapper thread connections
- PTFE's high lubricity makes for easy assembly
- Only 3 wraps need for most applications
- Chemically inert, non-Toxic
- Suitable for oxygen service
- Our most popular grade of Thread Seal Tape
- Easy to handle and apply
- Temperature range from -400F to 550F (-240C to 287C)
- Pressures up to 10,000psi (Liquid), 2000 psi (Gas)
- Connections can be put into service right away, no dry time
- Never dries out and an unlimited shelf life.
- Meets MIL-T-27730A
- Extremely versatile.

Typical Properties

Property	Value		
Color	White		
Thickness	3.5 mils		
Specific Gravity	0.7 to 0.8g/cc		
Toxicity	Non toxic		
RoHS	Compliant		

Cautions

Read all information on labels and Material Safety Data Sheets prior to use. All products should be tested and evaluated for a particular purpose prior to use.

Product Limited Warranty

This information is based on information we believe to be reliable and accurate, but no guarantee of its accuracy is made for a particular application. We urge and recommend that Users pretest their application prior to incorporating the product into use and assume that the User will conduct such testing. Also see warranty statement on website.

Available In:

Size:	½"x 60"	¼" x520 "	′ ½" x260 "	¹ ∕₂"x520"	<mark>½"x1296</mark> "
P/N:	16006	16025	16030	16035	16040
Size:	³ ⁄4"x260"	³ ⁄4"x520)" 1"x26(0" 1"x520	"
P/N:	16045	16050	16055	16060	
Size:	Counter	Display	½" x260 "	1/2"x520"	¾"x520"
P/N:				16035A	
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 $\textbf{POLY-TEMP}^{\otimes}$ IS A REGISTERED TRADEMARK OF ANTI-SEIZE TECHNOLOGY