ITEM	PART NUMBER	DRAWING	DESCRIPTION	MATERIAL
1	65008	SDI-HD-335	SDI 1.75" HS BAR SPHERICAL BEARING PLATE	ASTM A 536 GR. 80-55-06 (GALVANIZED)
2	61004	SDI-HD-174	WMS. 1.75" HS BAR	ASTM A 722, TYPE II, 150KSI
3	62010	SDI-HD-327	WMS. 1.75" SPHERICAL HEX NUT	ASTM A 536
4	33004	SDI-HD-041	3" SLIP-ON DUCT COUPLER	POLYPROPYLENE PER ASTM D4101
5	66001, 66003	SDI-HD-093	SDI 1.75" PERMANENT GROUT CAP & NUT	NYLON PER ASTM D5989
6	32004	SDI-HD-035	3" CORRUGATED DUCT	POLYPROPYLENE PER ASTM D4101
7	37004	SDI-HD-234	HEAT SHRINK TUBING (PLA-90-YE)	ADHESIVE LINED POLYOLEFIN
8	55004	SDI-HD-257	SDI GROUT PORT PLUG	POLYPROPYLENE PER ASTM D4101
9	52008	SDI-HD-153	$\lambda_2^{\prime\prime}$ BALL VALVE (TEMPORARY)	POLYVINYL CHLORIDE
10	52006	SDI-HD-152	1" BALL VALVE (TEMPORARY)	POLYVINYL CHLORIDE
11	51002	SDI-HD-188	½" NOM. (13mm) GROUT HOSE	HIGH DENSITY POLYETHYLENE PER ASTM D3350
12	51001	SDI-HD-189	⅔" NOM. (23mm) GROUT HOSE	HIGH DENSITY POLYETHYLENE PER ASTM D3350
13	53011	SDI-HD-222	½" NOM.(13mm) NPT COUPLER (TEMPORARY)	POLYPROPYLENE PER ASTM D4101
14	53005	SDI-HD-223	¾" NOM. (23mm) NPT COUPLER (TEMPORARY)	POLYPROPYLENE PER ASTM D4101
15	76016	SDI-HD-236	O-RING SEAL	BUNA-N PER ASTM D2240, & D412
16	64004	SDI-HD-110	WMS. 1.75" HS BAR COUPLER	ASTM A 29, GR. C1045
17	32005	SDI-HD-036	4" CORRUGATED DUCT	POLYPROPYLENE PER ASTM D410
18	66006	SDI-HD-194	SDI BAR CAP RETAINER	NYLON PER ASTM D5989
19	55003	SDI-HD-155	½″ NOM. (13mm) GROUT HOSE PLUG	POLYPROPYLENE PER ASTM D4101
20	55001	SDI-HD-156	$^3\!$	POLYPROPYLENE PER ASTM D4101
21	57003	SDI-HD-147	¾" NOM. (23mm) WELDABLE GROUT PORT	POLYPROPYLENE PER ASTM D4101
22	77010	SDI-HD-149	¾"-16 BOLT	STAINLESS STEEL, TYPE 316 PER ASTM F593
23	0000T	N/A	TEFLON TAPE (TEMPORARY)	TEFLON
24	0000E	N/A	COMMERCIALLY AVAILABLE/COMPATIBLE EPOXY	EPOXY
*ALL	NON-FERROUS C	OMPONENTS COM	ITAIN VIRGIN MATERIAL.	•

STEP-BY-STEP SYSTEM INSTALLATION PROCEDURE

STEP 1: HANG BEARING PLATE WITH 2 EACH 2/2" ALL THREAD. PLACE SO GROUT PORT IS IN 12 O'CLOCK POSITION.

STEP 2: PLACE HS BAR NUT CORRESPONDING TO BAR SIZE.

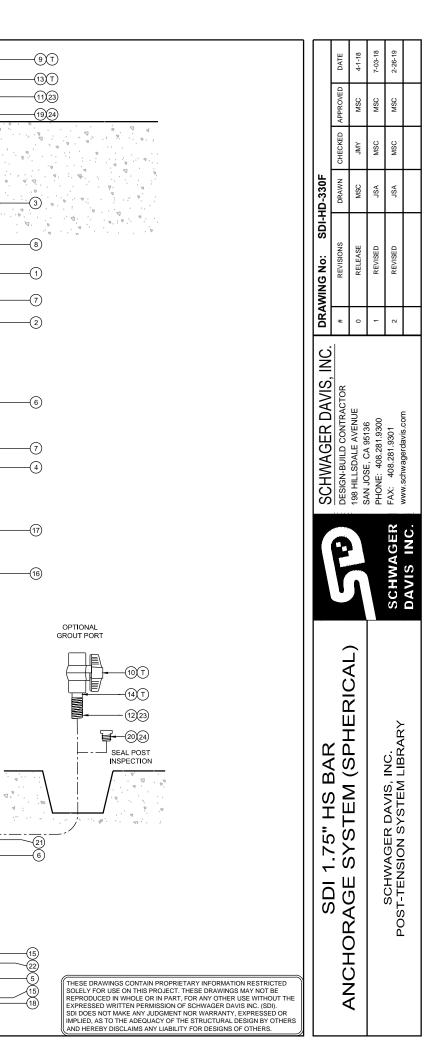
- STEP 3: PLACE DUCT 1/2" MINIMUM OUTSIDE BEARING PLATE. STEP 4: INSTALL CORRECT SIZE HEAT SHRINK OVER DUCT/COUPLER OR DUCT/BEARING PLATE CONNECTION PER MANUFACTURER'S RECOMMENDATIONS.
- STEP 5: INSTALL HS BAR CAP BASE AND HS BAR CAP NUT CORRESPONDING TO BAR SIZE.

STEP 6: INSTALL VENTS. (SEE NOTE a) STEP 7:

PLACE BAR RETAINER CAP OVER GROUT CAP IF REQUIRED. (REQUIRED WHEN COMPLETE ANCHORAGE IS EMBEDDED IN CONCRETE PRIOR TO STRESSING)

NOTES:

- EPOXY EVERY PERMANENT GROUT HOSE/COUPLER/PLUG, THEN THREAD INTO ALL CONNECTIONS. a.
- TENDON FILLER MATERIAL IS GROUT. b.
- STEP-BY-STEP INSTALLATION PROCEDURE ARE GENERIC, FOLLOW FDOT SPECIFICATIONS AND PROJECT SPECIFIC REQUIREMENTS. c.
- d. SDI BAR CAP RETAINER IS ONLY USED WHEN COMPLETE ANCHORAGE IS EMBEDDED IN CONCRETE.
- e. TEMPORARY ITEMS DESIGNATED WITH



SEAL POS VSPECTIO

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POUR-BACK AREA

POUK-BAUN AREA REFERENCE FOOT STANDARD PLANS INDEX NUMBER 462-003 FOR POST TENSIONING ANCHORAGE AND TENDON FILLING DETAIL

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SEAL POST

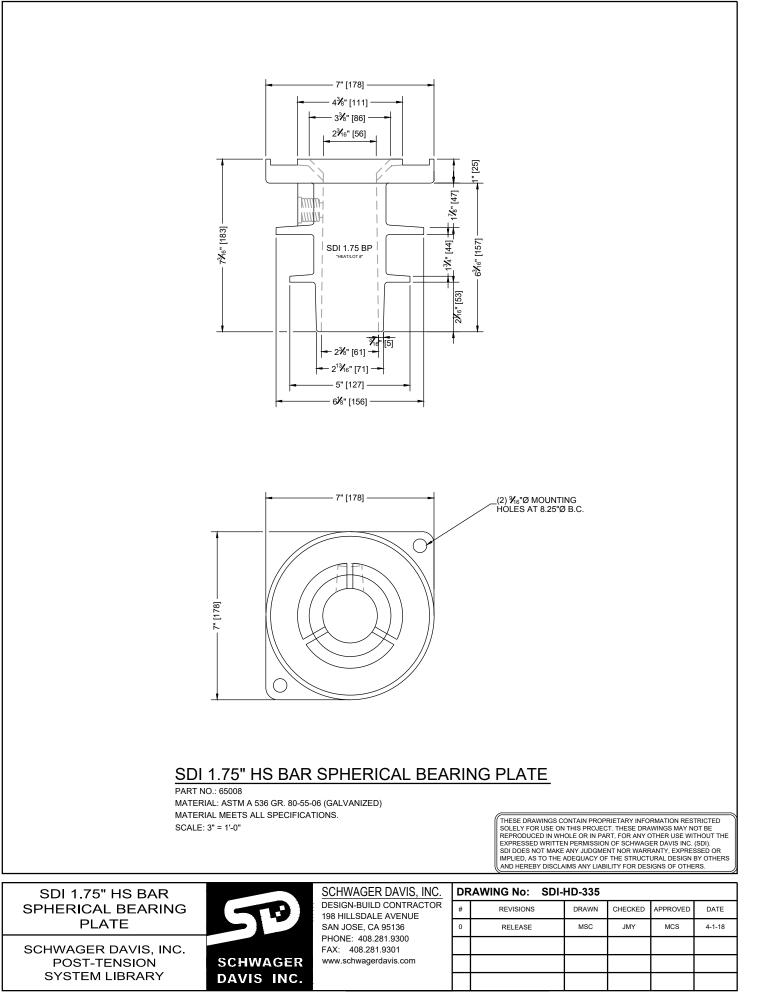
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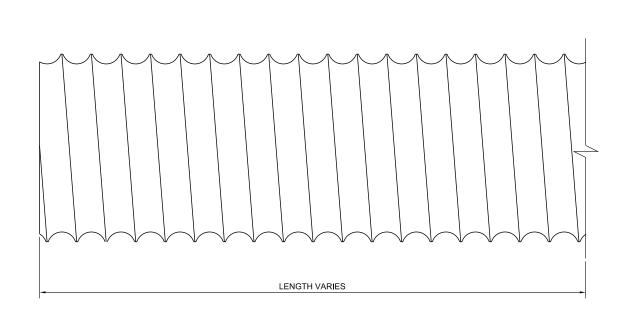
INSPECTION

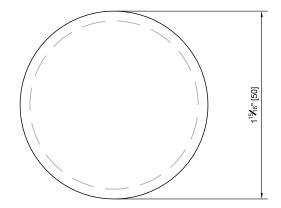
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WMS. 1.75" HS BAR

PART NO.: 61004 MATERIAL: GRADE 150 HIGH STRENGTH, COARSE THREAD BAR ACCORDING TO ASTM A722, TYPE II MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 1'-0" = 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 ADEQUACY OF THE STRUCTURAL DESIGN BY OTHERS AND HEREBY DISCLAIMS ANY LIABILITY FOR DESIGNS OF OTHERS.

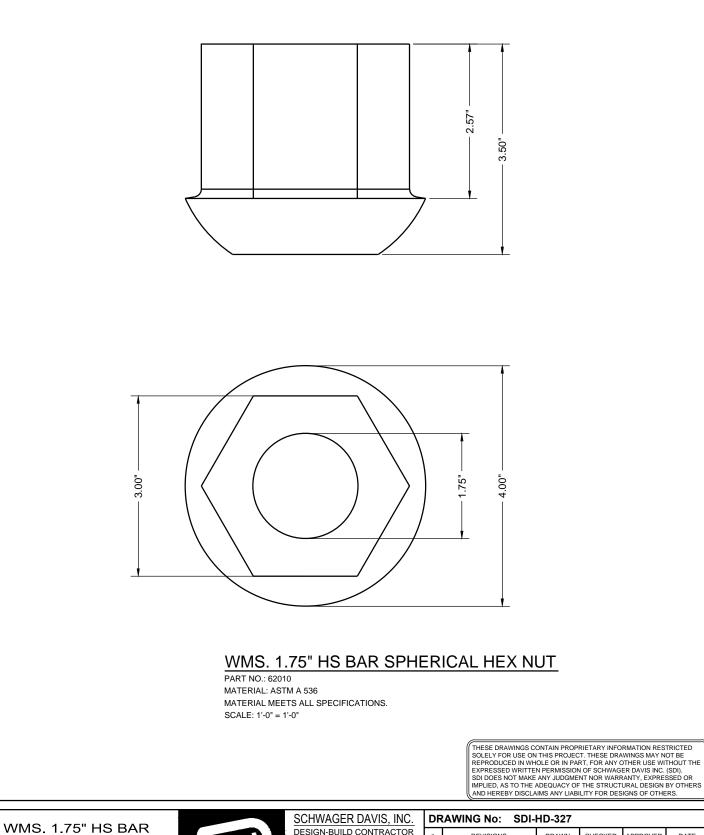
WMS. 1.75" HS BAR

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DR	AWING No: SDI-	HD-174			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	04/02/14
1	UPDATE	CSM	MSC	MSC	06/03/15



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SPHERICAL HEX NUT

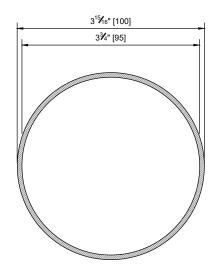


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198 HILLSDALE AVENUE SAN JOSE, CA 95136 PHONE: 408.281.9300 FAX: 408.281.9301 www.schwagerdavis.com

REVISIONS DRAWN CHECKED APPROVED DATE 0 MCS 4-1-2018 RELEASE GAS MCS 1 MATERIAL UPDATE 2-26-2019 JSA MCS MCS

SDI 3.0



SDI 3" SLIP-ON DUCT COUPLER

PART NO.: 33004 MATERIAL: POLYPROPYLENE CELL CLASS RANGE: PP0340B44541 TO PP0340B67884 MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 6" = 1'-0"

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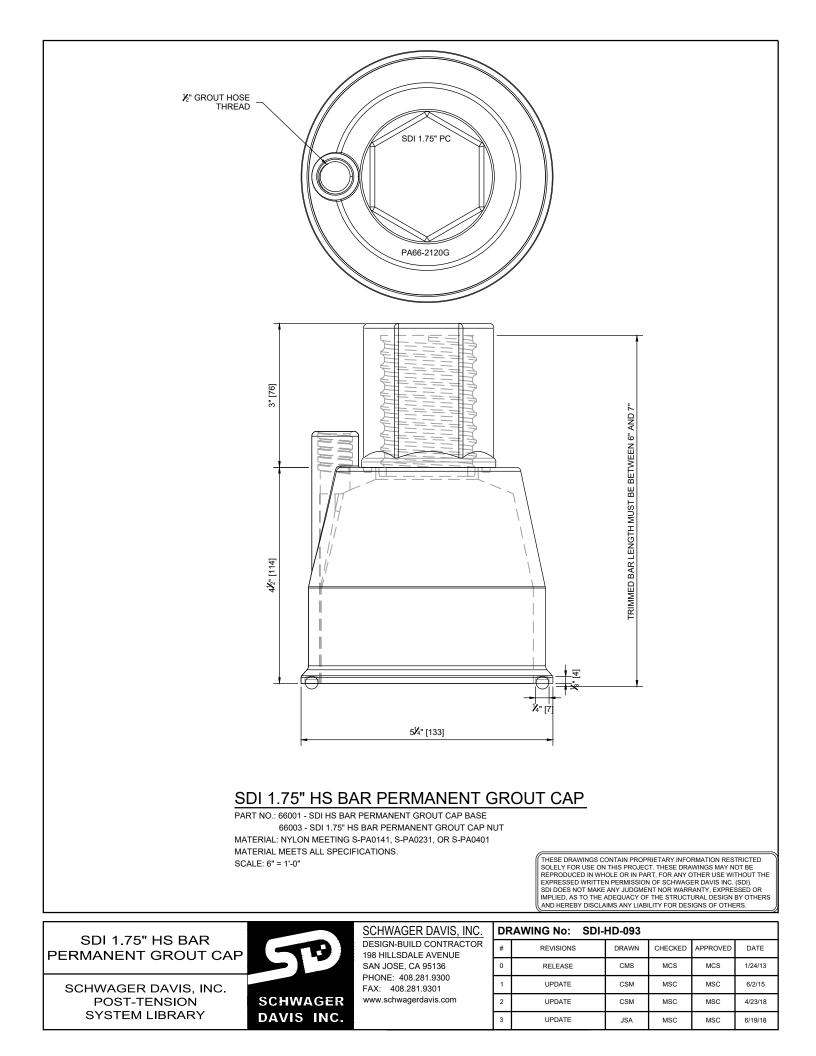
SDI 3" SLIP-ON DUCT COUPLER

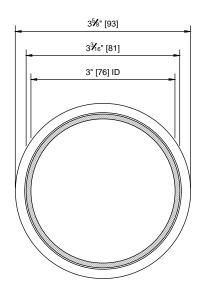
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SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-041			
#	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	6-19-18





SDI 3" CORRUGATED PLASTIC DUCT

PART NO.: 32004 MATERIAL: POLYPROPYLENE CELL CLASS RANGE: PP0340B44541 TO PP0340B67884 BENDING RADIUS: 8 FT MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 6" = 1'-0"

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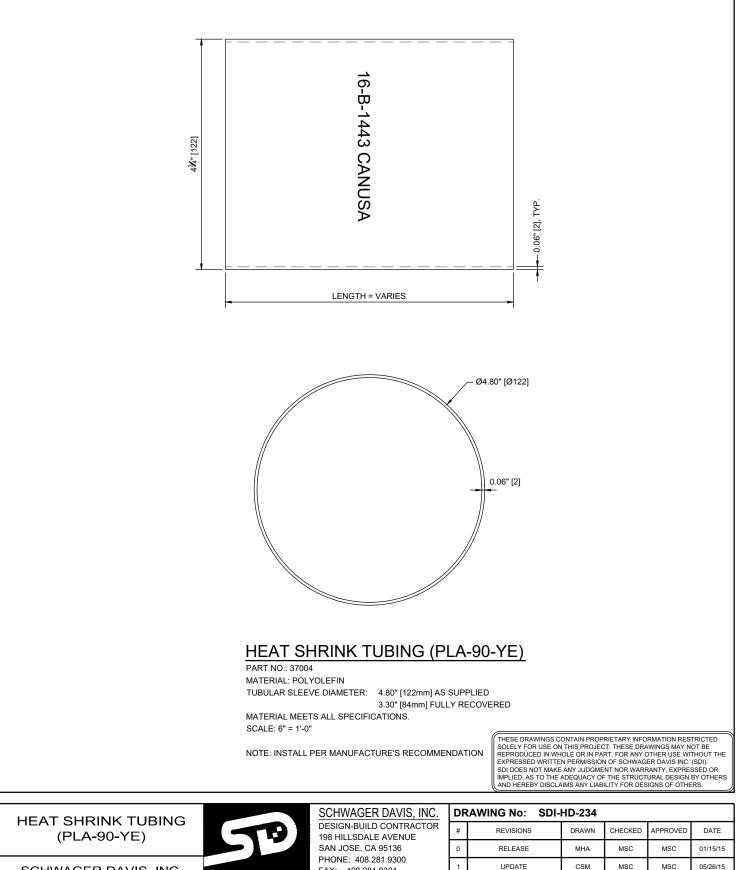
SDI 3" CORRUGATED PLASTIC DUCT

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SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-035			
#	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	07/02/18



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2

UPDATE

JSA

MSC

MSC

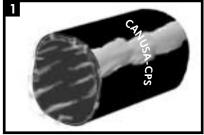
06/19/18



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

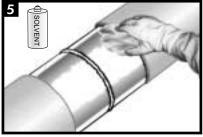
These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

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



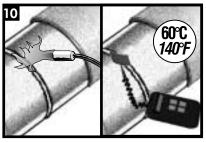
Ensure that the PE coating edges are beveled to 30°. Clean exposed steel and adjacent pipe coating with a solvent cleanser to remove the presence of oil, grease, and other contaminants.

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

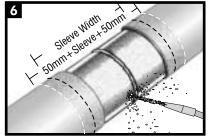


Completely remove the inner release liner from the sleeve and centre the sleeve over the area to be sealed

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





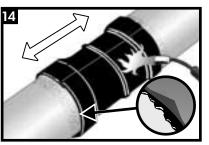
Using the appropriate sized torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes.

CanusaTube[™] - PLA

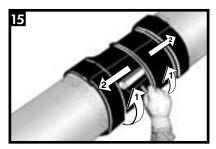
Sleeve Installation



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.

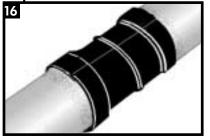


Shrinking has been completed when the adhesive begins to ooze at the sleeve edges all around the circumference. Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.



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

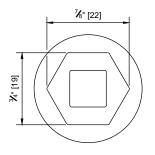
CANUSA-CPS a division of Canusa Systems Ltd. Unit 3, Sterling Park Gatwick Road Crawley, West Sussex England RH10 9QT Tel: +44 (1293) 541254 Fax: +44 (1293) 541777

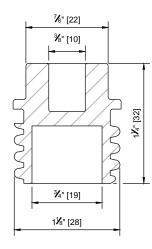
www.canusacps.com

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 GROUT PORT PLUG

PART NO.: 55004 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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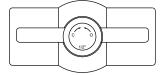
SDI GROUT PORT PLUG

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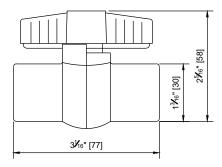


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C	RAWING No:	SDI-H	ID-257			
#	# REVISIONS		DRAWN	CHECKED	APPROVED	DATE
C	RELEASE		CSM	MSC	MSC	05/26/15
1	1 UPDATE		JSA	MSC	MSC	06/19/18







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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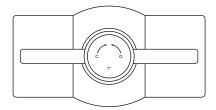
1/2" DIAMETER BALL VALVE (TEMPORARY)

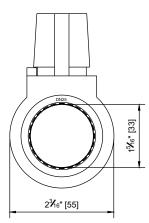
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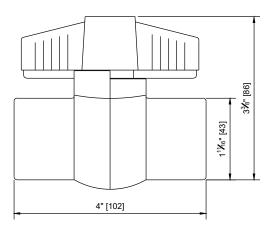


SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DR	AWING No: SDI-	HD-153			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
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1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	JSA	MSC	MSC	06/18/18





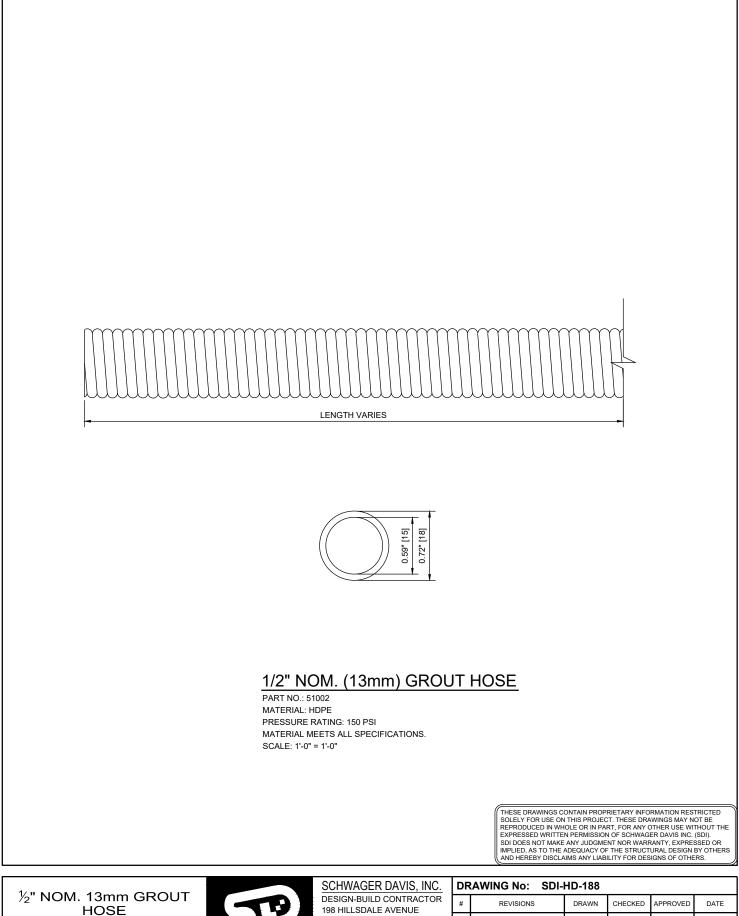


1" DIAMETER BALL VALVE (TEMPORARY)

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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SCHWAGER DAVIS, INC. DRAWING No: SDI-HD-152 **1" DIAMETER BALL** DESIGN-BUILD CONTRACTOR # REVISIONS DRAWN CHECKED APPROVED DATE VALVE (TEMPORARY) 198 HILLSDALE AVENUE SAN JOSE, CA 95136 0 RELEASE мна MSC MSC 04/02/14 PHONE: 408.281.9300 1 UPDATE CSM MSC MSC 05/26/15 SCHWAGER DAVIS, INC. FAX: 408.281.9301 SCHWAGER www.schwagerdavis.com POST-TENSION 2 UPDATE JAS MSC MSC 06/12/18 SYSTEM LIBRARY DAVIS INC.

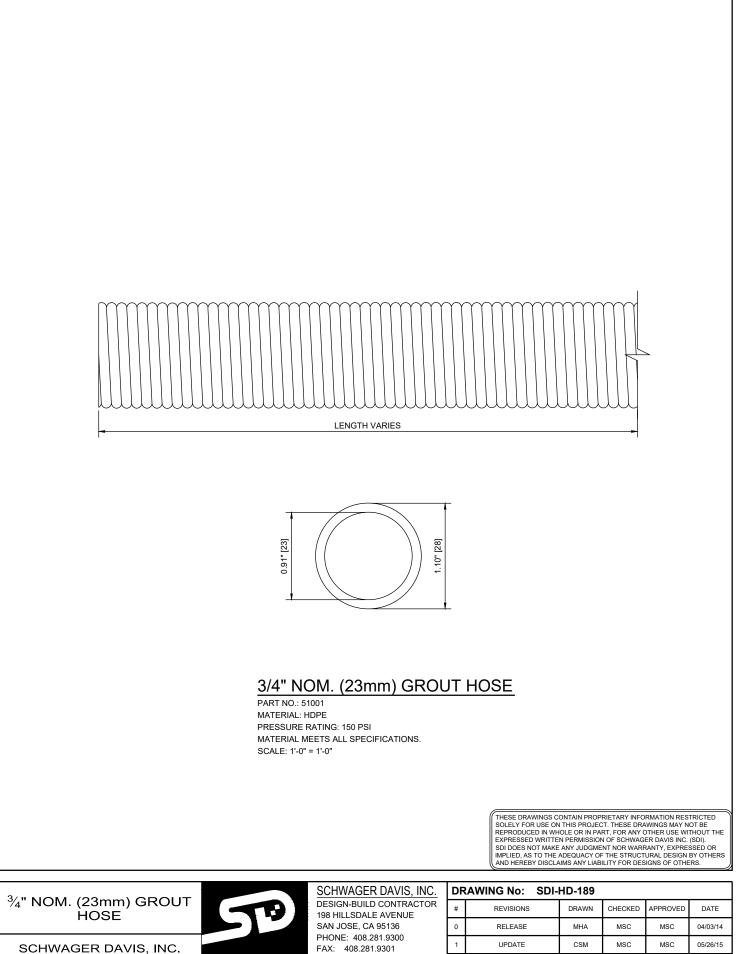


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2

UPDATE

JSA

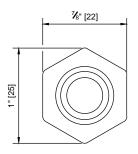
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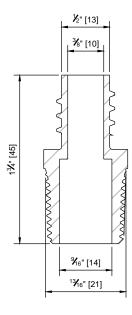
MSC

06/18/18

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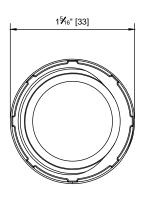
1/2" NOM. (13mm) NPT COUPLER

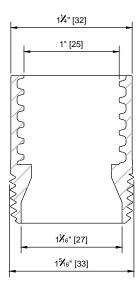
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DR	AWING No: SDI-	HD-222			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	10/10/14
1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	JSA	MSC	MSC	06/19/18





3/4" NOM. (23mm) NPT COUPLER

PART NO.: 53005 MATERIAL: POLYPROPYLENE CELL CLASS RANGE: PP0340B44541 TO PP0340B67884 PRESSURE RATING: 150 PSI MATERIAL MEETS ALL PROJECT SPECIFICATIONS. SCALE: 1'-0" = 1'-0"

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³⁄₄" NOM. (23mm) NPT COUPLER

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DR	AWING No: SDI-	HD-223			
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
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1	UPDATE	CSM	MSC	MSC	05/26/15
2	UPDATE	MHA	JMY	JMY	06/30/15
3	UPDATE	JSA	MSC	MSC	06/19/18

‰" 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	1⁄2" x 3⁄4"	0.484" x 0.762"	¹ ∕8" FRACTIONAL (0.139" ACTUAL)	70
, i i i i i i i i i i i i i i i i i i i	76019	2-339	3¼" × 3%"	3.225" x 3.645"	⅔ ₆ " FRACTIONAL (0.210" ACTUAL)	70
	76014	2-407	2¼" × 2¾"	2.225" x 2.775"	¼" FRACTIONAL (0.275" ACTUAL)	70
	76016	2-415	3¼" × 3¾"	3.225" x 3.775"	¼" FRACTIONAL (0.275" ACTUAL)	70
೫ 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 5½"	4.725" x 5.275"	¼" FRACTIONAL (0.275" ACTUAL)	70
	76025	2-432	5¾" x 576"	5.350" x 5.900"	<mark> </mark>	70
t	76008	2-435	5¾" 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" × 7¾"	7.225" x 7.775"	<mark>2/</mark> " FRACTIONAL (0.275" ACTUAL)	40
	76002	2-444	7 3⁄4" x 8 ⁄ 4 "	7.725" x 8.275"	没 " FRACTIONAL (0.275" ACTUAL)	70
	76011	2-445	8" x 8½"	7.975" x 8.525"	没 " FRACTIONAL (0.275" ACTUAL)	40
	76026	2-446	8 ½ " × 9"	8.475" x 9.025"	24" FRACTIONAL (0.275" ACTUAL)	40
	76004	2-448	9 ½ " x 10"	9.475" x 10.025"	<mark>次</mark> " FRACTIONAL (0.275" ACTUAL)	70
0.256"	76024	2-452	11 ½ " x 12"	11.475" x 12.025"	24" 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
Market and Andrews	76029	2-228	21⁄4" x 21⁄2"	2.250" x 2.500"	%4" FRACTIONAL (0.139" ACTUAL)	70
	76030	2-425	4½" 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 ADEQUACY OF THE STRUCTURAL DESIGN BY OTHERS AND HEREBY DISCLAIMS ANY LIABILITY FOR DESIGNS OF OTHERS.

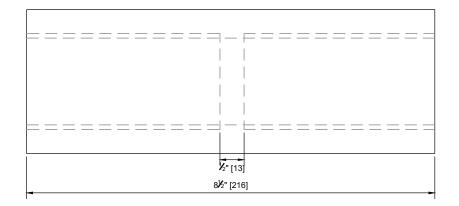
STANDARD O-RINGS

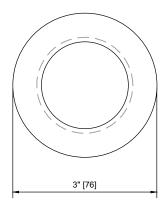
SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY



SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR 198 HILLSDALE AVENUE SAN JOSE, CA 95136 PHONE: 408.281.9300 FAX: 408.281.9301 www.schwagerdavis.com

DRAWING No: SDI-HD-236						
#	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	





WMS. 1.75" HS BAR COUPLER

PART NO.: 64004 MATERIAL: ASTM A 29 GR. C1045 MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 6" = 1'-0"

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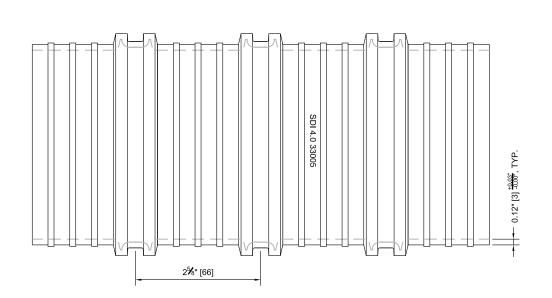
WMS. 1.75" HS BAR COUPLER

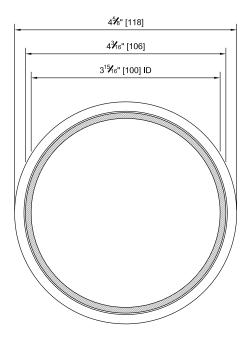
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DR					
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	CMS	MCS	MCS	6-21-13
1	COMMENTS	CMS	MCS	MCS	09-09-13
2	UPDATE	CSM	MSC	MSC	6-2-15





SDI 4" CORRUGATED PLASTIC DUCT

PART NO.: 32005 MATERIAL: POLYPROPYLENE CELL CLASS RANGE: PP0340B44541 TO PP0340B67884 BENDING RADIUS: 15 FT MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 6" = 1'-0"

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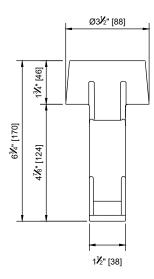
SDI 4" CORRUGATED PLASTIC DUCT

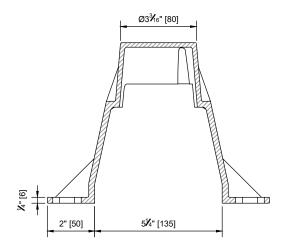
SCHWAGER DAVIS, INC. POST-TENSION SYSTEM LIBRARY

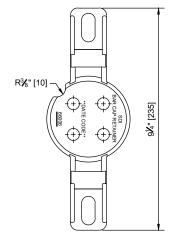


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5.	DRAWING No: SDI-HD-036						
R	#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE	
	1	REVISED	MCS	JWM	MCS	11/11/11	
	2	UPDATE	CSM	JWM	MSC	05/26/15	
	3	UPDATE	CSM	MSC	MSC	07/03/18	
	4	UPDATE	CSM	MSC	MSC	08/15/18	







SDI BAR CAP RETAINER

PART NO.: 66006 MATERIAL: NYLON MEETING S-PA0141, S-PA0231, OR S-PA0401 MATERIAL MEETS ALL SPECIFICATIONS. SCALE: 6" = 1'-0"

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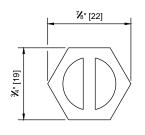
SDI BAR CAP RETAINER

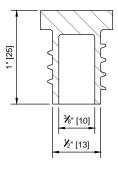
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DR	AWING No: SDI-				
#	REVISIONS	DRAWN	CHECKED	APPROVED	DATE
0	RELEASE	MHA	MSC	MSC	07/28/14
1	UPDATE	CSM	MSC	MSC	06/02/15
2	UPDATE	JSA	MSC	MSC	06/19/18





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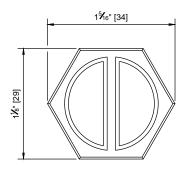
1/2" NOM. (13mm) GROUT TUBE PLUG

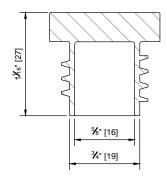
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SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

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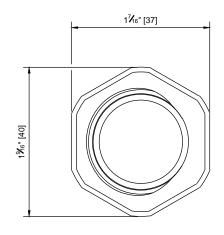
³⁄₄" NOM.(23mm) GROUT TUBE PLUG

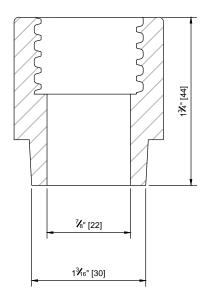
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SCHWAGER DAVIS, INC. DESIGN-BUILD CONTRACTOR

DRAWING No: SDI-HD-156							
#	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	06/19/18		





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"

NOTE: FOLLOW MANUFACTURE'S INSTALLATION INSTRUCTIONS

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.

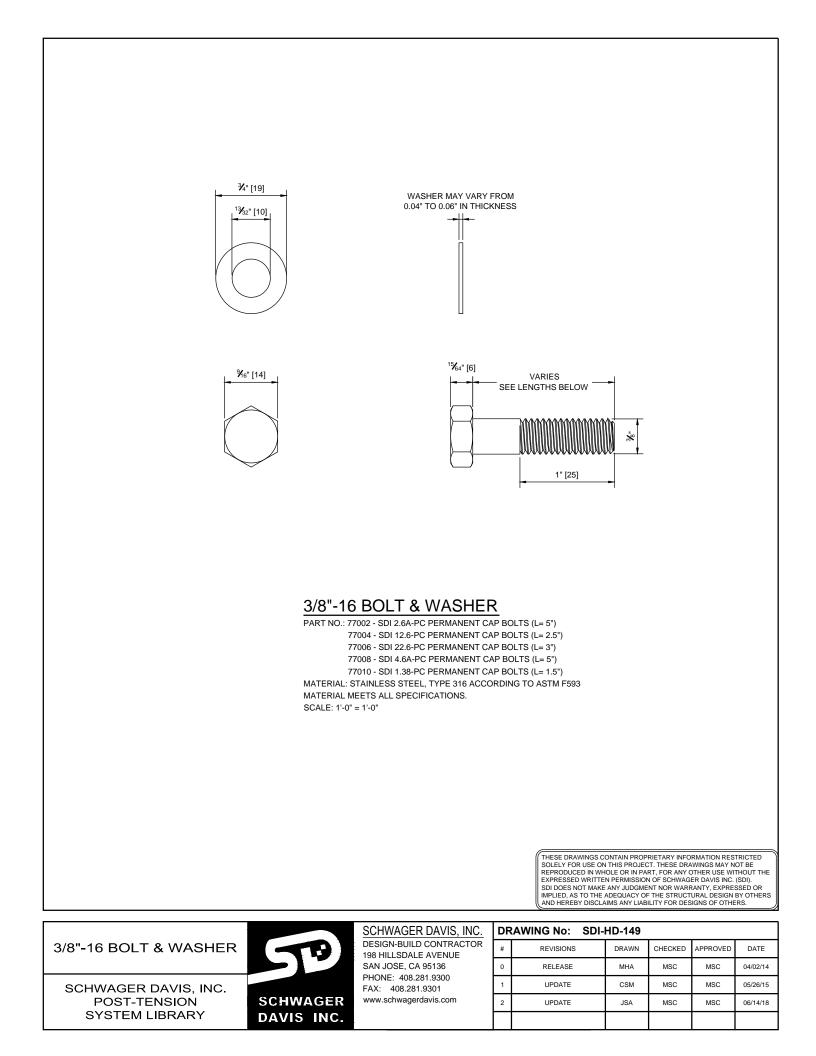
PP WELDABLE GROUT PORT WITH $m ^{3}\!4$ " (23mm) GROUT THREAD

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DR	DRAWING 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		





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 "	½" x520 "	<mark>½"x1296</mark> "
P/N:	16006	16025	16030	16035	16040
Size:	³ ⁄ ₄ "x260"	³ ⁄4"x520	" 1"x260)" 1"x520	"
P/N:	16045	16050	16055	16060	_
Size:	Counter	Display	¹ /2" x260 " '	1/2"x520"	¾"x520"
P/N:				16035A	
-					

 $\textbf{POLY-TEMP}^{\otimes}$ IS A REGISTERED TRADEMARK OF ANTI-SEIZE TECHNOLOGY

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	ASTM D 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	ASTMD 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	TIME
40	4	72 hrs.
65	18	24 hrs.
85	29	20 hrs.
90	32	16 hrs.

In-Service Temperature Sensitivity

Base M Tempe		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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