



*Quality People. Building Solutions.*

Comfort Systems USA (Arkansas), Inc.  
P.O. Box 16620  
Little Rock, AR 72231  
Phone 501-834-3320  
Fax 501-834-5416

**Date:** 2/4/2025

**Return Request:** 2/14/2025

**Project:** City Of Sherwood Public Works (Administration Building)

**Supplier:** Dollar Sheet Metal

**Manufacturer:** Various

**Submittal:** HVAC Ducts & Casings

**Submittal Number:** 23 31 00-01

**Drawing # and Installation:** Mechanical Drawings

**ARCHITECT**

Cromwell  
1300 East 6<sup>th</sup> Street  
Little Rock, AR 72202  
501-372-2900

**ENGINEER**

Cromwell  
1300 East 6<sup>th</sup> Street  
Little Rock, AR 72202  
501-372-2900

**GENERAL CONTRACTOR**

Baldwin & Shell  
1000 W. Capitol Ave.  
Little Rock, AR 72201  
501-374-8677

**MECHANICAL SUBCONTRACTOR**

Comfort Systems USA (Arkansas), Inc.  
9924 Landers Rd.  
N. Little Rock, AR 72117  
501-834-3320

Notes:

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**CSUSA PROJECT NO.**

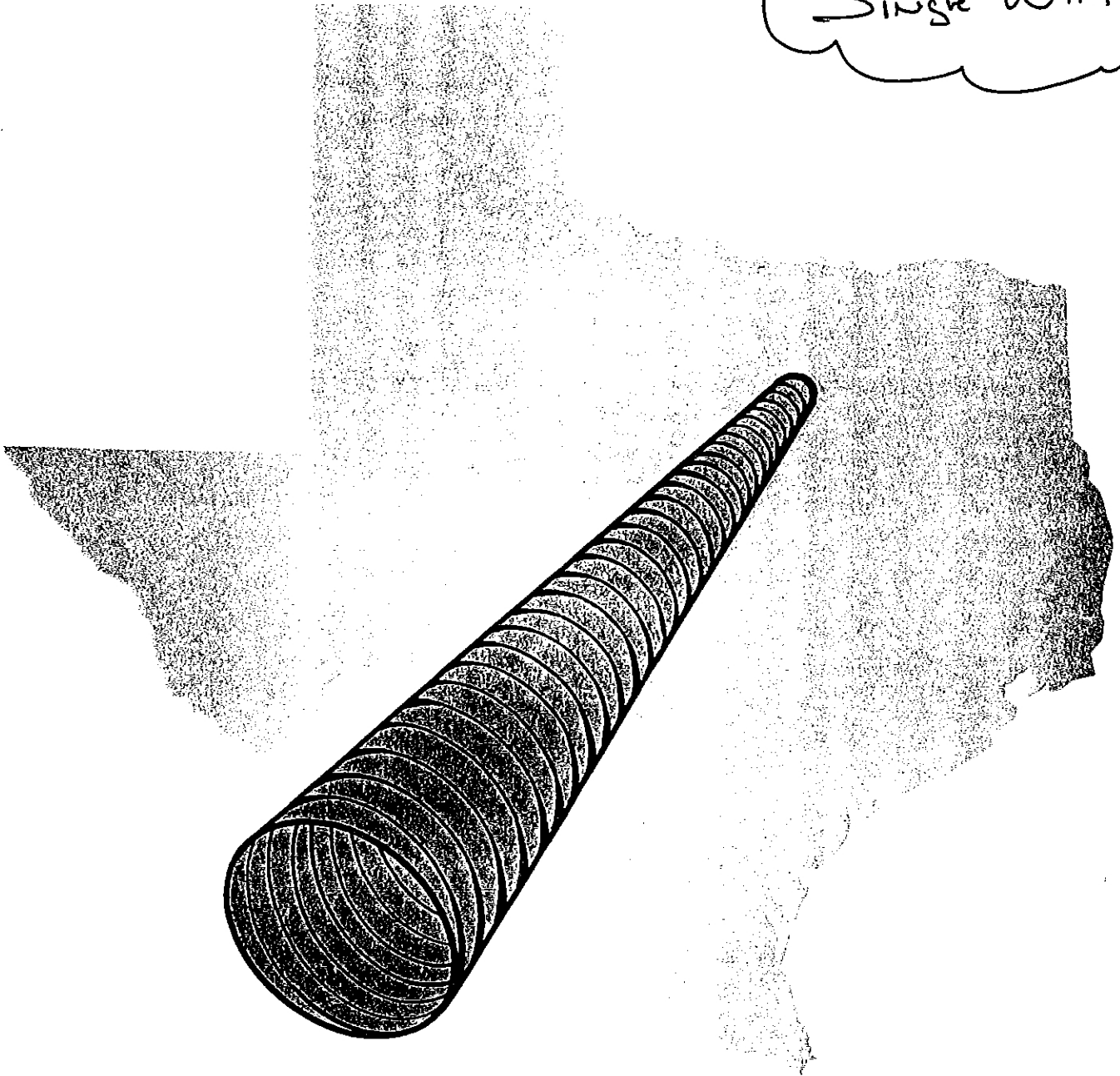
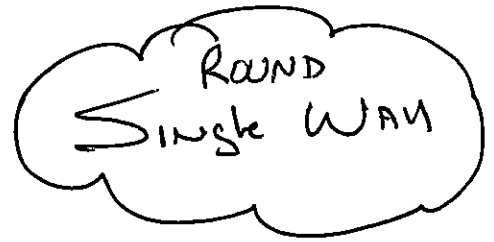
**24-6084**

[sean@comfortar.com](mailto:sean@comfortar.com)

9924 Landers Rd.  
No. Little Rock, AR 72117

# SPIRAL PIPE

OF TEXAS, INC.



FORT WORTH, TEXAS

817-838-6796

Spiral Pipe of Texas, Inc.  
Single Wall Round  
Standard Gauge Chart

-2 " W.G.

Diameter	Spiral Pipe	Long Seam Pipe	Fittings
3" - 13"	28	26	26
14" - 17"	26	24	24
18" - 20"	24	22	22
21" - 23"	24	20	20
24" - 26"	22	20	20
27" - 30"	22	18	18
31" - 34"	20	18	18
35" - 48"	20	18	18
49" - 60"	18	16	16
61" - 72"	16	14	14

+2 " W.G.

Diameter	Spiral Pipe	Long Seam Pipe	Fittings
3" - 14"	28	26	26
15" - 26"	26	24	24
27" - 36"	24	22	22
37" - 50"	22	20	20
51" - 60"	20	18	18
61" - 84"	18	16	16

+10" W.G.

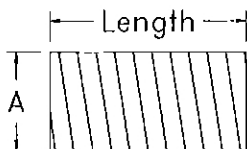
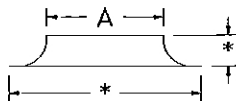
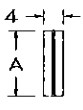
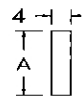
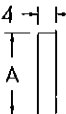

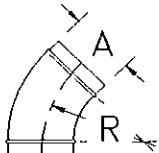
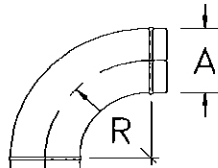
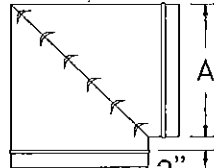
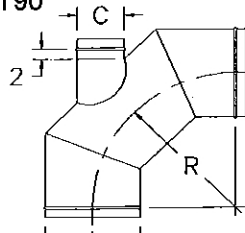
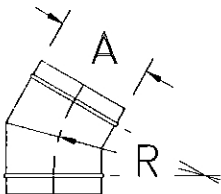
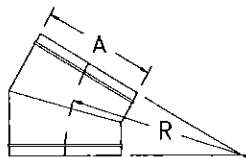
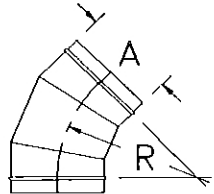
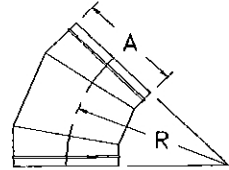
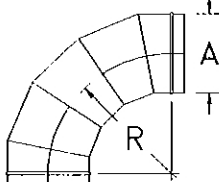
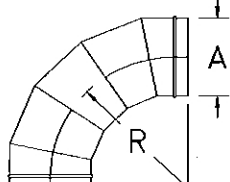
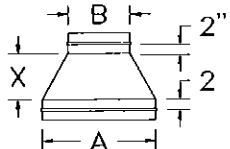
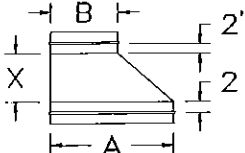
Diameter	Spiral Pipe	Long Seam Pipe	Fittings
3" - 10"	28	26	26
11" - 14"	26	24	24
15" - 26"	24	22	22
27" - 36"	22	20	20
37" - 50"	20	20	20
51" - 60"	18	18	18
61" - 84"	18	16	16

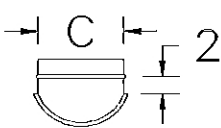
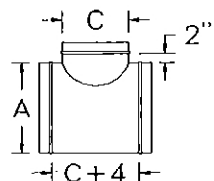
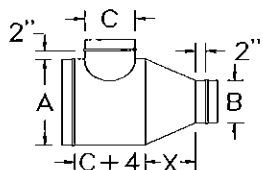
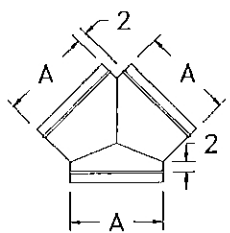
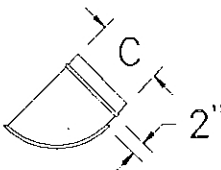
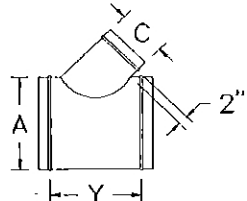
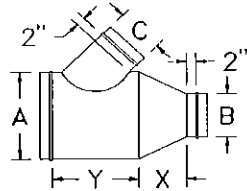
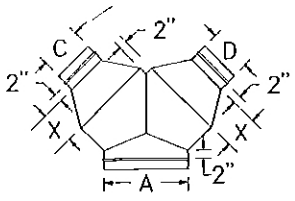
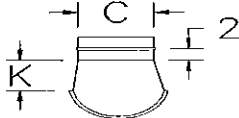
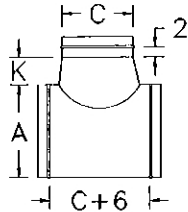
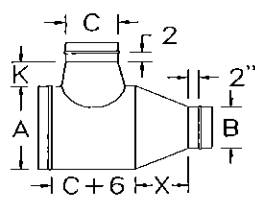
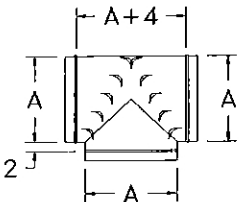
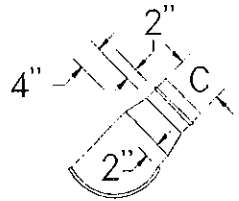
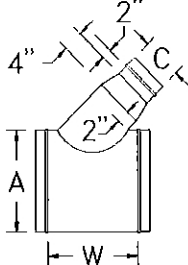
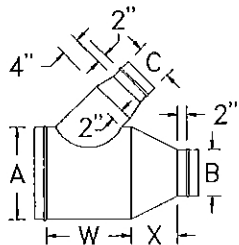
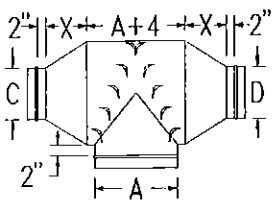
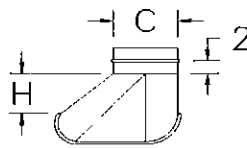
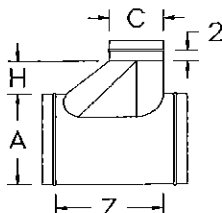
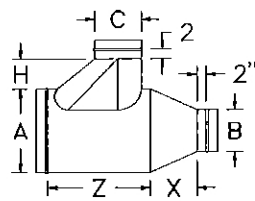
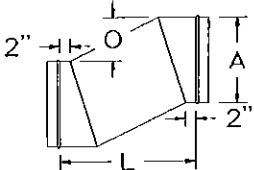
Spiral Pipe of Texas' Round Ductwork is available in the following materials:

Galvanized G60 and G90  
Phosphatized ("Paint-Grip")  
304L Stainless Steel  
316L Stainless Steel  
Polyvinyl Coated  
Aluminum

Special materials are available. Please contact your nearest representative for details.

Spiral Pipe of Texas' products are manufactured in accordance with applicable SMACNA, ASHRAE and SPIDA standards.

Single Wall Round Spiral Pipe and Fitting Standards					
SP	B1	PP	FF	EC	EP
		 PIPE TO PIPE	 FITTING TO FITTING	 END CAP	 END PLUG
Spiral Pipe	Bellmouth	Couplings		Caps & Plugs	
SE45	SE90	EV90	ET90		
 A = 3" Thru 10"	 A = 3" Thru 10"	 A = 3" Thru 60"	 A = 3" Thru 60"		
Stamped Elbows		Mitered Elbow	Elbow w/Tap		
E1 Thru E36		E37 Thru E71			
 A = 3" Thru 24"	 A = Greater than 24"	 A = 3" Thru 24"	 A = Greater than 24"		
2 Gore Elbows		3 Gore Elbows			
E72 Thru E90		R1	ER1		
 A = 3" Thru 24"	 A = Greater than 24"				
5 Gore Elbows		Reducers			
<b>Dimensions:</b> A = Inlet Size B = Outlet Size C = Branch Size D = Branch Size H = 3" if C = 3" to 8" 6" if C = 9" to 16" 9" if C = 17" to 24" 12" if C = 25" & Up K = 5 1/4" L = Offset Length O = Offsetting Amount R = 1.5 x A S = 2 T = A/4+2 U = Ax2+2 V = (A/2x1.414)+((C+2)/2)+6 W = (C+2)x1.414+4 X = A - B (with 4" minimum) Y = (1.414xC) + 4 Z = C+H+4 * = Consult Factory					

Single Wall Round Spiral Pipe and Fitting Standards			
LT	T1	T1R	Y2
			
Straight 90 Degree Tees			"Y" Fittings
LL	L1	L1R	Y2R
			
45 Degree Laterals			Reducing "Y" Fittings
LCT	CT1	CT1R	BT
			
Conical 90 Degree Tees			Bullhead Tee
LCL	CL1	CL1R	BTR
			
Conical 45 Degree Lateral Tees			Reducing Bullhead
LLL	LL1	LL1R	SET
			
Low Loss 90 Degree Tees			Offset

# SUBMITTAL

Product:	Ductwork (G-90)
Manufacturer:	Dollar Sheet Metal, Inc.
Job Name:	Sherwood Public Works
Location:	N. Little Rock, AR
Date:	January 24, 2025

# **HVAC DUCT CONSTRUCTION STANDARDS**

## **METAL AND FLEXIBLE**



ANSI/SMACNA 006-2006

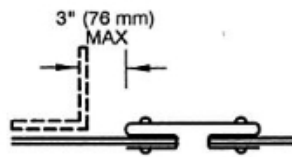


**SHEET METAL AND AIR CONDITIONING CONTRACTORS'  
NATIONAL ASSOCIATION, INC.**  
[www.smacna.org](http://www.smacna.org)

2 in. wg Static Pos. or Neg.	No Reinforcement Required	Reinforcement Code for Duct Gage Number							
Duct Dimension		Reinforcement Spacing Options ↓							
		10 ft	8 ft	6 ft	5 ft	4 ft	3 ft	2½ ft	2 ft
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
10 in. and under	26 ga.	Not Required							
11 – 12 in.	26 ga.								
13 – 14 in.	24 ga.		B-26	B-26	B-26	B-26	B-26	B-26	B-26
15 – 16 in.	24 ga.		C-26	C-26	C-26	C-26	C-26	B-26	B-26
17 – 18 in.	22 ga.		C-26	C-26	C-26	C-26	C-26	C-26	B-26
19 – 20 in.	20 ga.	C-22	C-24	C-26	C-26	C-26	C-26	C-26	C-26
21 – 22 in.	18 ga.	D-22	D-24	D-26	D-26	C-26	C-26	C-26	C-26
23 – 24 in.	18 ga.	E-22	E-24	D-26	D-26	D-26	C-26	C-26	C-26
25 – 26 in.	18 ga.	E-22	E-22	E-24	D-26	D-26	C-26	C-26	C-26
27 – 28 in.	18 ga.	F-20	E-20	E-22	E-24	D-26	D-26	C-26	C-26
29 – 30 in.	18 ga.	F-20	F-20	E-22	E-24	E-26	D-26	D-26	C-26
31 – 36 in.	16 ga.	G-18	G-20	F-22	F-24	E-24	E-26	D-26	D-26
37 – 42 in.	Not Designed	H-16	H-18	G-20	G-22	F-24	E-24	E-26	E-26
43 – 48 in.		I-18	H-20	H-22	G-22	F-24	F-24	E-24	
49 – 54 in.		I-16G	I-18G	H-20G	H-20G	G-24	F-24	F-24	
55 – 60 in.			I-18G	I-20G	H-20G	G-22	G-24	F-24	
61 – 72 in.			J-16H	J-18H	I-20G	H-22G	H-22G	H-24	
73 – 84 in.				J-16H	I-20G	I-20G	I-22G	I-22G	
85 – 96 in.						J-18H	I-18H	I-20H	I-22H
97 – 108 in.						K-16I	K-18H	J-18H	I-18H
109 – 120 in.								K-16I	K-18I

**Table 2-3 Rectangular Duct Reinforcement**





T-8 DOUBLE "S" SLIP  
(T-8a REINFORCED)

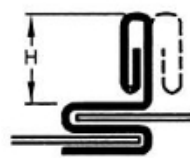
- 24 ga for 30 inch width or less
- 22 ga over 30 inch width
- Fasten to each section of the duct within 2 in. from corners and at 6 in. maximum intervals
- $\frac{5}{8}$  in. minimum tabs to close corners



STANDING S  
T-10

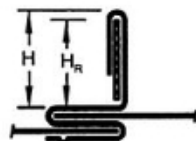


STANDING S (ALT.)  
T-11



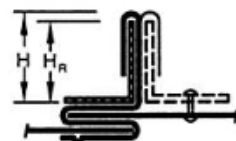
STANDING S (ALT.)  
T-12

- When using S on all four sides, fasten slip to duct within 2 in. of the corner and at 12 in. maximum intervals
- Any length at 2 in. wg
- 36 in. maximum length at 3 in. wg
- 30 in. maximum length at 4 in. wg
- Not allowed above 4 in. wg



STANDING S  
(BAR REINFORCED)  
T-13

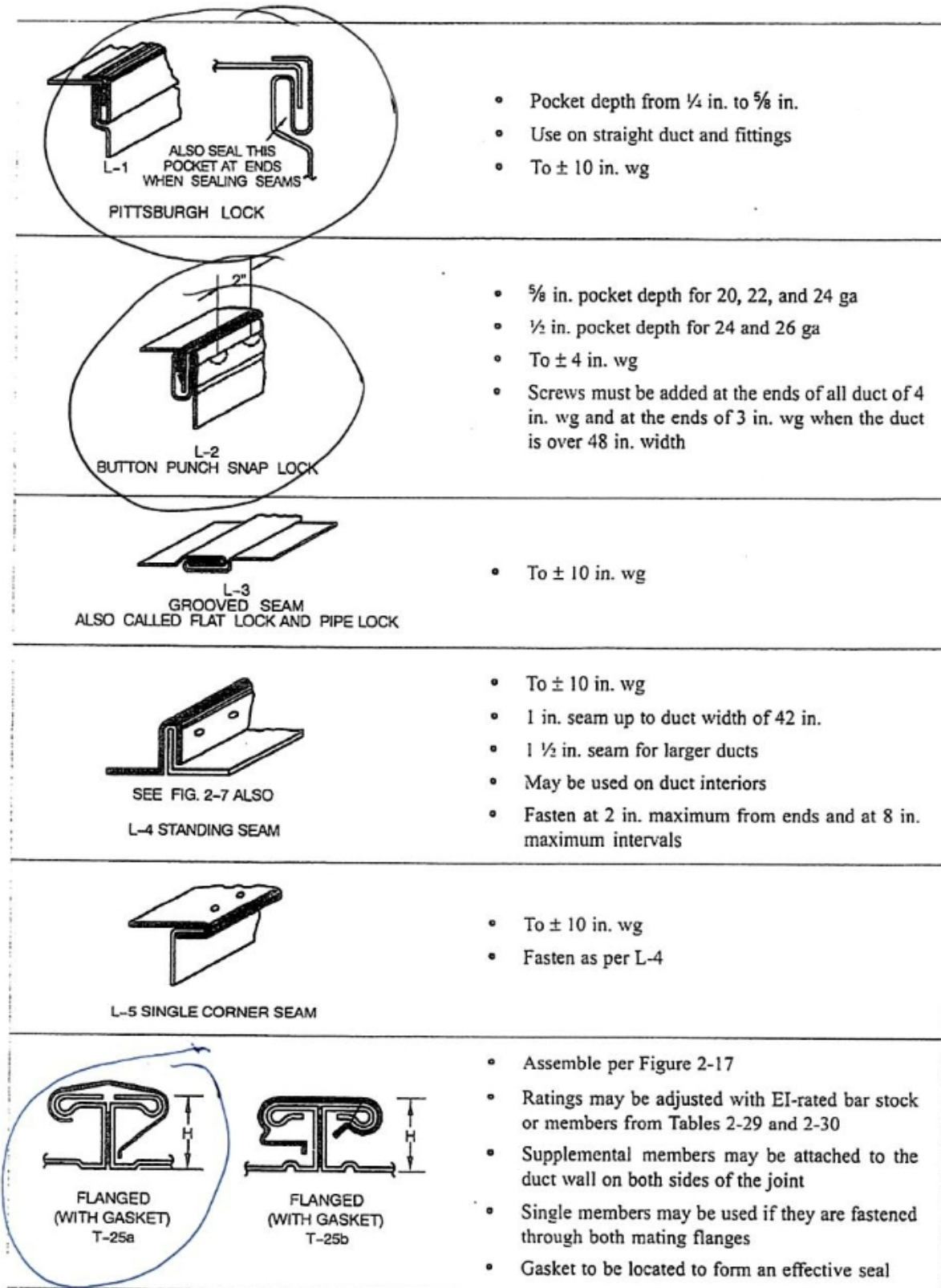
- Fasten as per Joint T-10
- Standing portion as per T-10 or T-11 to hold Flat Bar
- Fasten bar stock to the connector within 2 in. of the corner and at 12 in. maximum intervals
- Any length at 2 in. wg
- 36 in. maximum length at 3 in. wg
- 30 in. maximum length at 4 in. wg
- Not allowed above 4 in. wg



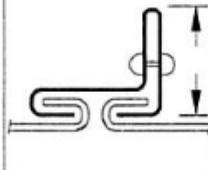
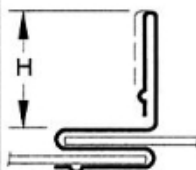
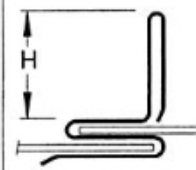
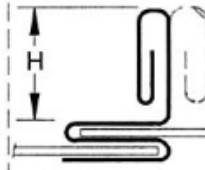
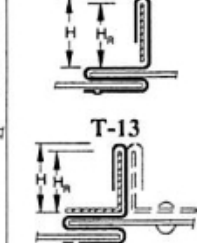
STANDING S  
(ANGLE REINFORCED)  
T-14

- Fasten as per Joint T-10
- Fasten angle to the connector or duct wall within 2 in. of the corner and at 12 in. maximum intervals
- Any length at 2 in. wg
- 36 in. maximum length at 3 in. wg
- 30 in. maximum length at 4 in. wg
- Not allowed above 4 in. wg

FIGURE 2-1 RECTANGULAR DUCT/TRANSVERSE JOINTS (CONTINUED)



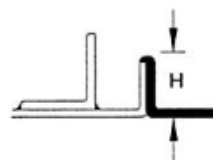
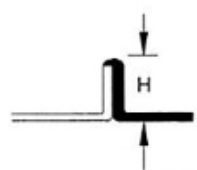


**FIGURE 2-2 RECTANGULAR DUCT/LONGITUDINAL SEAMS**

													
Reinf. Class		T-2 Standing Drive Slip		T-10 Standing S		T-11 Standing S		T-12 Standing S		T-14 Standing S			
	EI*	H x T (mm)	KG LM	H x T (mm)	KG LM	H x T (mm)	KG LM	H x T (mm)	KG LM	H x T + HR (mm)	KG LM		
A	0.12	Use B		Use B		12.7 x 0.55	0.74	Use B		Use D			
B	0.29	28.6 x 0.55	0.6	25.x 0.55	0.9	12.7 x 0.85 25 x 0.55	0.9	25 x 0.55	1.0	Use D			
C	0.55	28.6 x 0.85	0.9	25 x 0.85	1.2	25 x 0.85	1.2	25 x 0.70	1.2	Use D			
D	0.78	28.6 x 1.31	1.2	28.6 x 1.00 25 x 0.85 (+)	1.3	25 x 1.00 25 x 0.85 (+)	1.3	Use E	1.5	41.3 x 0.70 38.1 x 3.2 Bar	2.1		
E	1.9	NOT GIVEN		28.6 x 1.31	1.5	25 x 1.31 (+)	1.3	25 x 1.31 38.1 x 1.00	1.8	Use F			
F	3.7			Use G		NOT GIVEN		Use G		41.3 x 0.85 38.1 x 3.2 Bar	2.2		
G	4.5			41.3 x 1.31	1.9			38.1 x 1.00	1.9	41.3 x 1.00 38.1 x 3.2 Bar	2.6		
H	7.6			NOT GIVEN				NOT GIVEN		41.3 x 1.31 38.1 x 3.2 Bar	3.0		
I	20									54 x 1.00 51 x 51 x 3.2 Angle	4.3		
J	23									54 x 1.00 51 x 51 x 4.76 Angle	5.5		
K	30									NOT GIVEN			
L	60												

**Table 2-31M Transverse Joint Reinforcement**

See Section 2.1.4. \*Effective EI is number listed times  $10^5$  before adjustment for bending moment capacity. T-2 and T-10 through T-14 are restricted to 750 mm length at 1000 Pa, to 914 mm length at 750 Pa and are not recommended for service above 1000 Pa. (+) indicates positive pressure use only.

											
				<b>T-16</b>		<b>T-21a</b>					
<b>Mini- mum Rigidity Class</b>		<b>T-15 Standing Seam</b>		<b>Standing Seam or Welded Flange Reinforced</b>						<b>T-21 Welded Flange</b>	
				<b>0.55 to 0.85 mm Duct</b>			<b>1.00 to 1.61 mm Duct</b>				
	<b>EI*</b>	<b>H<sub>S</sub> × T (mm)</b>	<b>KG LM</b>	<b>H<sub>S</sub> (mm)</b>	<b>Angle H<sub>R</sub> × T</b>	<b>KG LM</b>	<b>H<sub>S</sub></b>	<b>H<sub>S</sub> × T (Min) (mm)</b>	<b>KG LM</b>	<b>H<sub>S</sub> × T (mm)</b>	<b>KG LM</b>
A	0.12	12.7 × 0.70	0.3		↑	1.5		↑		12.7 × 0.85	0.1
B	0.29	19.1 × 0.70	0.4			1.5				19.1 × 1.61	0.3
C	0.55	Use D	0.7			1.5				19.1 × 1.31	0.4
D	0.78	19.1 × 1.61 25 × 1.0	0.4	25	25 × 25 × 1.61	1.5				31.8 × 1.31 31.8 × 0.85 (+)	0.6 0.4
E	1.9	25 × 1.61	1.0	25	25 × 3.2	2.1	25	25 × 3.2	2.1	31.8 × 1.61 38.1 × 1.0 (+)	0.7
F	3.7	38.1 × 1.31	1.2		Use G	2.7	31.8	31.8 × 2.8	2.5	38.1 × 1.61 (+)	0.9
G	4.5	38.1 × 1.31 (+)	1.2	38.1	38.1 × 3.2	3.0	38.1	38.1 × 3.2	3.6	See T-21a And Tie Rod Options	
H	7.6	See T-16 And Tie Rod Options		38.1	51 × 3.2	4.0	38.1	38.1 × 4.8	3.9		
I	20			38.1	51 × 4.8		38.1	51 × 3.2	4.0		
J	23				Use K	5.2	38.1	51 × 4.8	5.2		
K	30			38.1	63.5 × 4.8		38.1	63.5 × 4.8	6.1		
L	60	↓			Not Given					↓	

**Table 2-33M Transverse Joint Reinforcement**

See Section 2.1.4. \*Effective EI is number listed times 10<sup>5</sup> before adjustment for bending moment capacity. See tie rod options elsewhere. (+) indicates positive pressure use only.

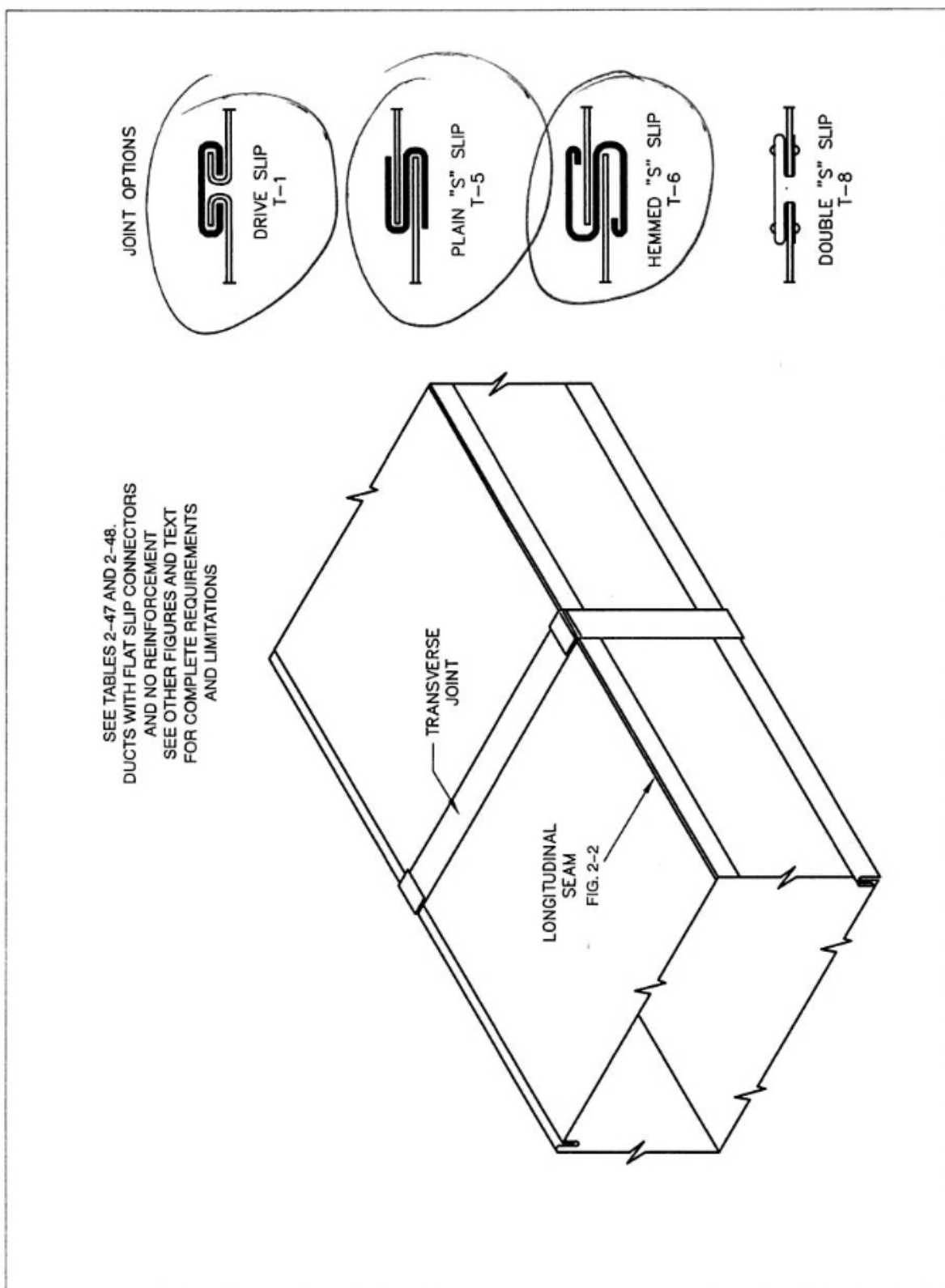
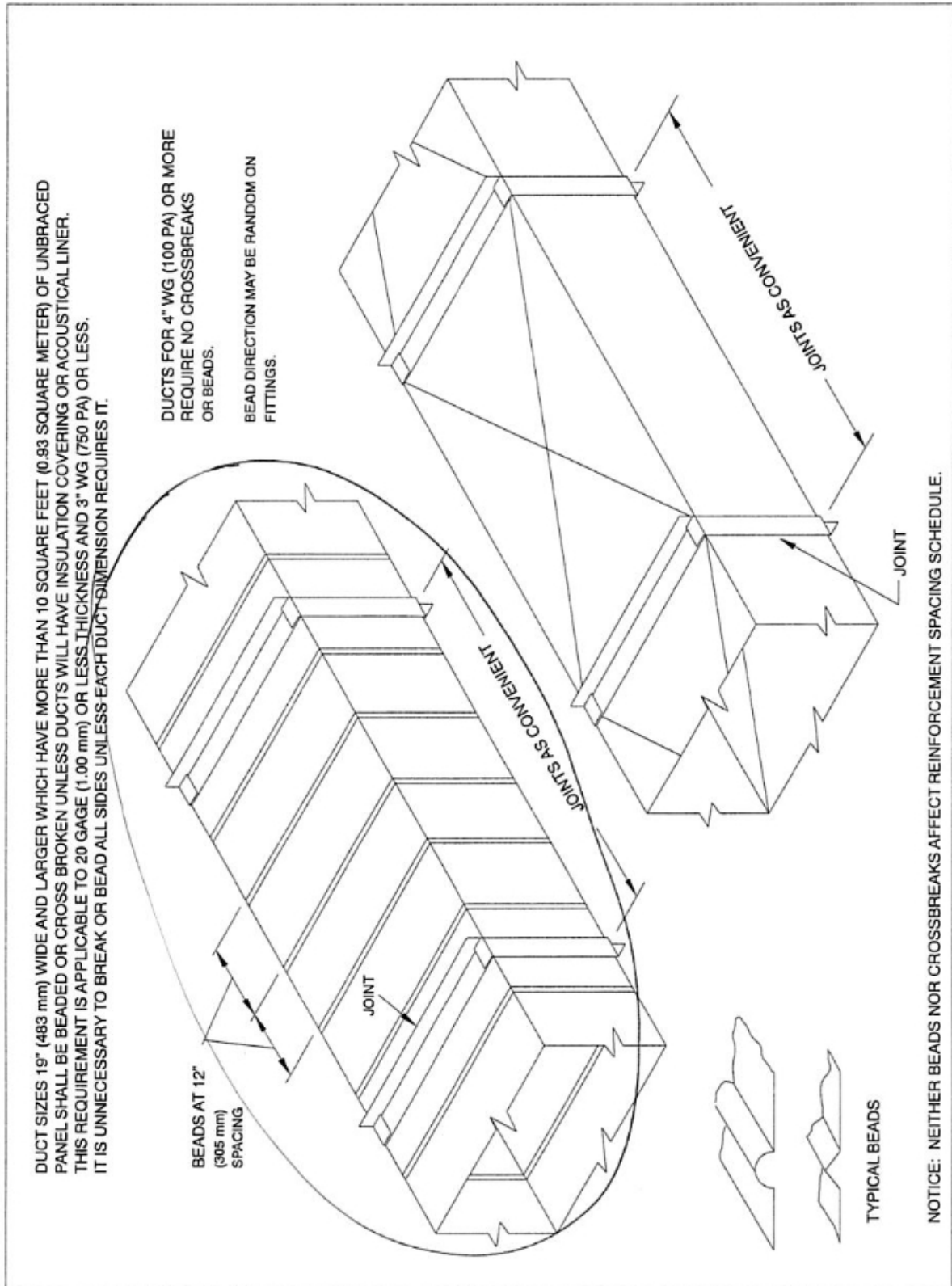


FIGURE 2-8 UNREINFORCED DUCT



**FIGURE 2-9 CROSSBROKEN AND BEADED DUCT**

# SUBMITTAL

Product:	Duct Sealant and Tape
Manufacturer:	Hardcast, Inc.
Job Name:	Sherwood Public Works
Location:	N. Little Rock, AR
Date:	January 24, 2025





## OVERVIEW

Foil-Grip 1402 is a pressure-sensitive, 40-year cycle, duct joint and general purpose rolled mastic sealant. It provides an instant water-resistant air-tight grip to most surfaces including sheet metal, flex duct, and PVC-coated duct. Foil-Grip 1402 is suitable for subgrade application on PVC-coated duct and is ideal for replacement applications.

## PART NUMBERS

304093	1 Case w/ (24) 2" x 100' Rolls (Non-printed)
304094	1 Case w/ (16) 3" x 100' Rolls (Non-printed)
304095	1 Case w/ (12) 4" x 100' Rolls (Non-printed)
304096	1 Case w/ (8) 6" x 100' Rolls (Non-printed)
304083	1 Roll 36" x 100' (Non-printed)
304099	1 Case w/ (24) 2" x 100' Rolls (Printed)
304100	1 Case w/ (16) 3" x 100' Rolls (Printed)

## FEATURES AND BENEFITS

- Instant Adhesion
- Indoor/Outdoor
- True Zero VOC
- Metal & Subgrade PVC Ductwork
- All Pressure Classes Up To 20 inches W.C.
- 17-Mil Thickness

## SPECIFICATIONS/STANDARDS COMPLIANCE

Property	Method	Results
Color	Visual	Mil Finish Aluminum Printed/Non-Printed With Gray Butyl Sealant
Backing	Visual	2 mils Aluminum
Thickness	ASTM D3652	17 mils nominal
Peel Strength	ASTM D3330-83	>10 lbs/linear inch
Tensile Strength	ASTM D412	955 psi avg.
Elongation	ASTM D412	500%
Flexibility	ASTM C765	Excellent/No Cracking
Water Resistance	CSTM. RA 8.0	Pass
VOC	EPA Method # 2	0 g/l
Flame	ASTM E84/UL 723	20
Smoke	ASTM E84/UL 723	40
Service Temperature	ASTM D2485/D2243	-20°F to 200°F (-28.8°C to 93.3°C)
Pressure Test	Independent 24 Hour Test up to 5/8-inch Diameter	20 inch w.c.
Weather Resistance	ASTM G53	Passes 2,000 QUV
Bond Time		Immediate/Full Bond: 15 Minutes
UL Rating	UL 723	Passes/Classified
VOC Limitation	SCAQMD Rule 1168	Pass
NFPA	90A & 90B	Class 1

## STORAGE

Temperature	35°F to 110°F (1.7°C to 44°C) DO NOT FREEZE
Shelf Life	24 months
Flammability	Non-flammable



## APPLICATION

Temperature	35°F to 110°F (1.7°C to 44°C)
Preparation	Surface must be dry and free of dirt, oil and grease.
Method	Cut desired length, peel off release liner, apply. Removal or repositioning may damage Foil-Grip 1402 and surface. Overlap at ends. Use squeegee with heavy pressure to assure complete contact.
Clean Up	UN-TACK™ or Solvent (Use safe handling practices.)
Painting	Use paint appropriate for aluminum



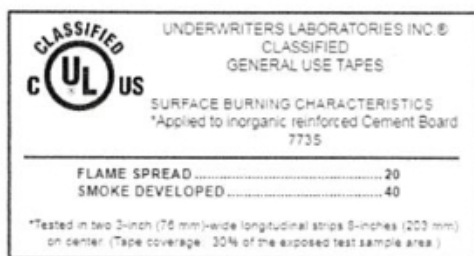
## PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product in areas where temperatures will exceed 200°F. Keep out of the reach of children. DO NOT use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.).

For Industrial Professional Use Only.

## LEED

Post-industrial Recycled Content	0%
Pre-consumer Recycled Content	0%
VOC Content	0 g/L
Manufacturing Location(s)	Wylie, TX



## PART NUMBERS

304142	1 Case w/ (25) 11 oz. Cartridges (White)
304146	1 Case w/ (25) 11 oz. Cartridges (Gray)
304144	1 Case w/ (4) 1-Gallon Pails (White)
304148	1 Case w/ (4) 1-Gallon Pails (Gray)
304143	1 - 2-Gallon Pail (White)
304147	1 - 2-Gallon Pail (Gray)
304145	1 - 5-Gallon Pail (White)

## TECHNICAL DATA

Color	White & Gray
Consistency	Heavy textured
Base	Synthetic latex
Solvent	Water
Weight per Gallon	11.6 lbs.
Solids Content	73.4%
Viscosity	Thixotropic
Coverage (UL 181 A-M)	Apply 18 mil, scrim, addt. 18 mil
Coverage (UL 181 B-M)	Approximately 214 to 320 lin. ft. per gal. at 20 to 30 mil wet film thickness at 3" width
Shore A Hardness	> 20
Flexibility	Passes ¼ inch mandrel bend
Time to Test	48 hours*
Service Temperature	-20°F to 200°F
Mildew Resistance	Mold & Mildew resistant
VOC	Exempt: 0 g/l Non Exempt: 38 g/l (less water)
Surface Burning	Flame Spread - 0, Smoke Developed - 0 (When tested in accordance with ASTM E84, UL 723)
Pressure Classes	SMACNA ½, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Class	Meets Seal Class A
Packaging	11 oz. cart.; 1, 2 & 5 gal. pails
Freeze/Thaw Stability	Passed 5 Cycles

\*May vary according to temperature and humidity

## SPECIFICATION/STANDARDS COMPLIANCE

Property	Method	Results
Freeze Thaw & Heat Cycling	ASTM C-731	Pass
Slump Test	ASTM D-2202	Pass
VOC Limitation	SCAQMD Rule 1168	Pass
	USDA	Pass
	FDA	Pass
	EPA	Pass
	City of Los Angeles Approval RR#8427	Pass

A versatile, all purpose duct sealant for use on all types of metal duct, fiberglass duct board, duct fabric and flex duct. CCWI-181 incorporates a built-in polyester reinforcement for exceptional strength, with UV inhibitors for outdoor use. UL 181A-M listed / UL 181B-M listed.


## APPLICATION

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	Brush, putty knife, caulk gun
Preparation	Surface must be dry, dirt, oil, and grease free.
Rate (UL 181 A-M)	Apply 18 mil, scrim and 18 mil over scrim.
Rate (UL 181 B-M)	Approx. 214 to 320 lin. ft. per gal. at 20 to 30 mil wet film thickness at 3" width.
Clean Up Wet	Soap and water
Clean Up Dry	UN-TACK™ or Solvent (Use safe handling practices.)
Painting	Only latex or epoxy paints
Ductboard	Scrim required for UL 181A-M

## STORAGE

Temperature	35°F to 110°F (1.7°C to 44°C) DO NOT FREEZE
Shelf Life	One year (unopened)
Flammability	Non-flammable

**Underwriters Laboratories Inc.®**  
LISTED  
**17NF**  
**UL 181A-M**  
FOR USE WITH U.L. LISTED RIGID  
FIBERGLASS AIR DUCTS OR CONNECTORS.  
**UL 181B-M**  
FOR USE WITH U.L. LISTED FLEXIBLE  
AIR DUCTS OR CONNECTORS



## PRECAUTIONS

Surface must be clean and free of moisture, contamination and foreign matter. Do not allow this product to freeze. Apply when temperatures will not fall below freezing for at least 36–48 hours, depending on temperature and humidity. Do not apply this product where temperatures will exceed 200°F. Keep out of the reach of children. Review MSDS for complete safety information prior to use. DO NOT use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

**For Industrial Professional Use Only.**



# PHP-D

## SPECIFICATION & TECHNICAL INFORMATION SHEET



### DESCRIPTION:

The PHP-D, is designed to support ducting, cable tray and piping at any specified height or width. The support is designed for installation without roof penetrations, flashings, or damage to the roofing material. The support can be used for virtually any roofing system from flat roofs to roofs sloped up to 2 in 12. The supports should be spaced according to the specifications. Seismic and High-Wind applications are available for the system.

### INSTALLATION PROCEDURE:

- 1** | Layout isolation pads, (provided by contractor), according to the design and layout.
- 2** | Place bases on isolation pads.
- 3** | Insert the legs of the duct support into bases and attach with 2-1/2" bolt and 1/2" nut).
- 4** | Space out pipe supports according to specifications. This should be done before any weight is supported.
- 5** | **IF BRACING IS REQUIRED**, attach horizontal bracing to legs of pipe supports, (approximately 3/4 of the way up the height of the support), with 3" bolts and 1/2" nut.  
NOTE: If double or triple bracing is required, designated locations will be marked on support legs.
- 6** | Adjust width up to bottom of ducting.
- 7** | Make sure supports are level, vertically and horizontally, and proper spacing is maintained per design specifications.
- 8** | Check that the weight of the duct is distributed evenly throughout the system.

### STORAGE:

Store in the original, unopened containers, under cover, until needed for installation.

### LEED INFORMATION:

Frame/Steel  
Post Consumer Recycled Content: 0%  
Post Industrial Recycled Content: 25%

### BASE MATERIAL:

Post Consumer Recycled Content: 80%  
Post Industrial Recycled Content: 20%  
Manufacturing Location: Houston, TX

### PRODUCT DATA:

#### Property:

##### Base:

Size:

Base Weight:

Base Material:

Base Color:

Base Density:

#### Minimum Performance:

18" x 18" x 3" or 18" round  
7 lbs and 10-1/2 lbs  
Injection molded high density/high impact polypropylene with UV-inhibitors and Antioxidants  
Black  
55.8 lb/cu ft (894 kg/cu m)

#### Carbon Steel and 304 Stainless Steel Framing:

Channel Types:

Form:

Thickness:

Carbon Steel Finish:

Stainless Steel Finish:

1-5/8" (41.3 mm) or 1-7/8" (47.6 mm) as required by loading  
Roll-formed 3-sided tubular shape, perforated with 9/16" (14.3 mm) holes at 1-7/8" (47.6 mm) centers on three sides  
12 gauge (2.7 mm)  
Hot dip galvanized per ASTM A 123  
Mill Finish

#### Hardware:

Nuts and Washers:

Hot Dip Galvanized or 304 Stainless Steel