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Date: 1/13/2025

Return Request: 1/23/2025

Project: HSU – Reynolds Hall Lap Renovation

Supplier: Dollar Sheet Metal

Manufacturer: Various

Submittal: HVAC Ducts & Casings

Submittal Number: 23 31 00-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

SCM Architects
1400 Kirk Road, Suite 220
Little Rock, AR 72223
501-224-3055

ENGINEER

Pettit & Pettit
201 E. Markham, Suite 400
Little Rock, AR 72201
501-374-3731

GENERAL CONTRACTOR

Nabholz
612 Garland St.
Conway, AR 72032
501-505-5800

MECHANICAL SUBCONTRACTOR

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

Notes:

CSUSA PROJECT NO.

22-6091

sean@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117

SUBMITTAL

Product: Ductwork (G-90)

Manufacturer: Dollar Sheet Metal, Inc.

Job Name: HSU Reynolds Lab

Location: Arkadelphia, AR

Date: January 6, 2025

HVAC DUCT CONSTRUCTION STANDARDS

METAL AND FLEXIBLE



ANSI/SMACNA 006-2006



**SHEET METAL AND AIR CONDITIONING CONTRACTORS'
NATIONAL ASSOCIATION, INC.**
www.smacna.org

2 in. wg Static Pos. or Neg.	No Reinforcement Required	Reinforcement Code for Duct Gage Number							
		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	J-18I

Table 2-3 Rectangular Duct Reinforcement



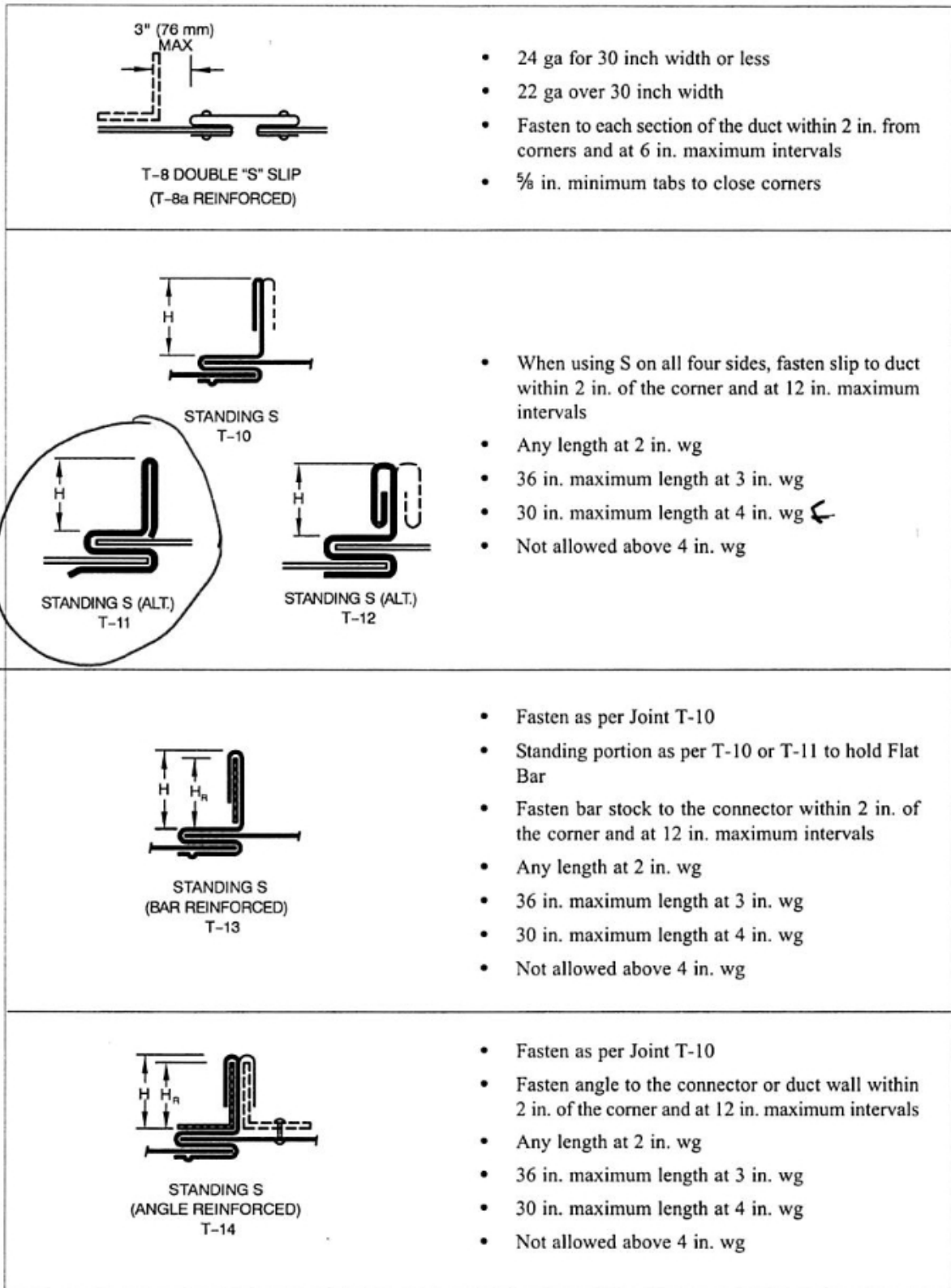
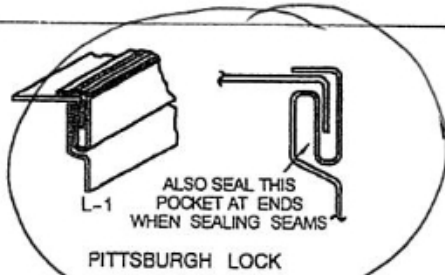
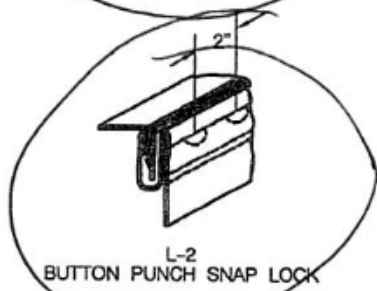


FIGURE 2-1 RECTANGULAR DUCT/TRANSVERSE JOINTS (CONTINUED)



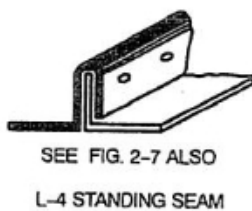
- Pocket depth from 1/4 in. to 5/8 in.
- Use on straight duct and fittings
- To ± 10 in. wg



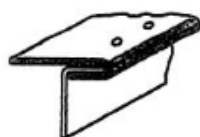
- 5/8 in. pocket depth for 20, 22, and 24 ga
- 1/2 in. pocket depth for 24 and 26 ga
- To ± 4 in. wg
- Screws must be added at the ends of all duct of 4 in. wg and at the ends of 3 in. wg when the duct is over 48 in. width



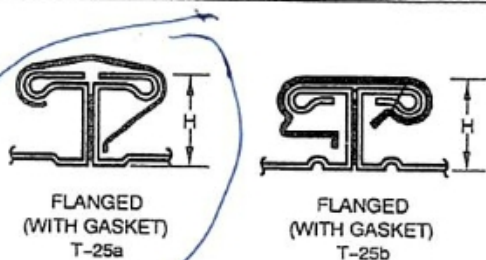
- To ± 10 in. wg



- To ± 10 in. wg
- 1 in. seam up to duct width of 42 in.
- 1 1/2 in. seam for larger ducts
- May be used on duct interiors
- Fasten at 2 in. maximum from ends and at 8 in. maximum intervals



- To ± 10 in. wg
- Fasten as per L-4



- Assemble per Figure 2-17
- Ratings may be adjusted with EI-rated bar stock or members from Tables 2-29 and 2-30
- Supplemental members may be attached to the duct wall on both sides of the joint
- Single members may be used if they are fastened through both mating flanges
- Gasket to be located to form an effective seal

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	NOT GIVEN	NOT GIVEN	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			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 10⁵ 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.



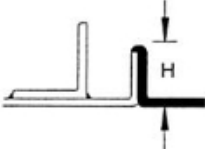
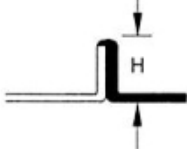
												
		T-15 Standing Seam			Standing Seam or Welded Flange Reinforced						T-21 Welded Flange	
					0.55 to 0.85 mm Duct			1.00 to 1.61 mm Duct				
	EI*	H _S × T (mm)	KG LM	H _S (mm)	Angle H _R × T	KG LM	H _S	H _S × T (Min) (mm)	KG LM	H _S × T (mm)	KG LM	
A	0.12	12.7 × 0.70	0.3		↑	1.5		↑		12.7 × 0.85	0.1	
B	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 10⁵ before adjustment for bending moment capacity. See tie rod options elsewhere. (+) indicates positive pressure use only.

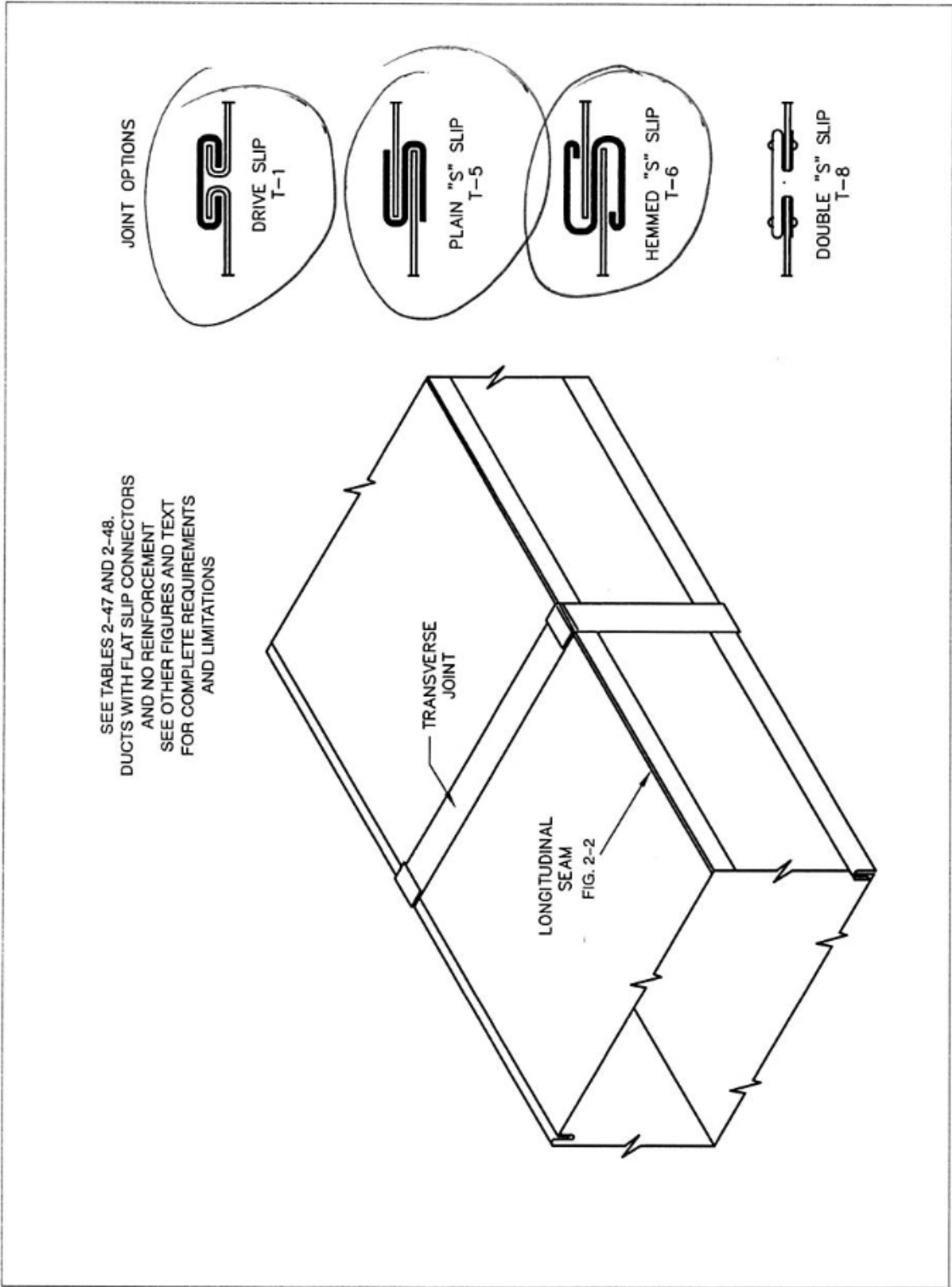


FIGURE 2-8 UNREINFORCED DUCT



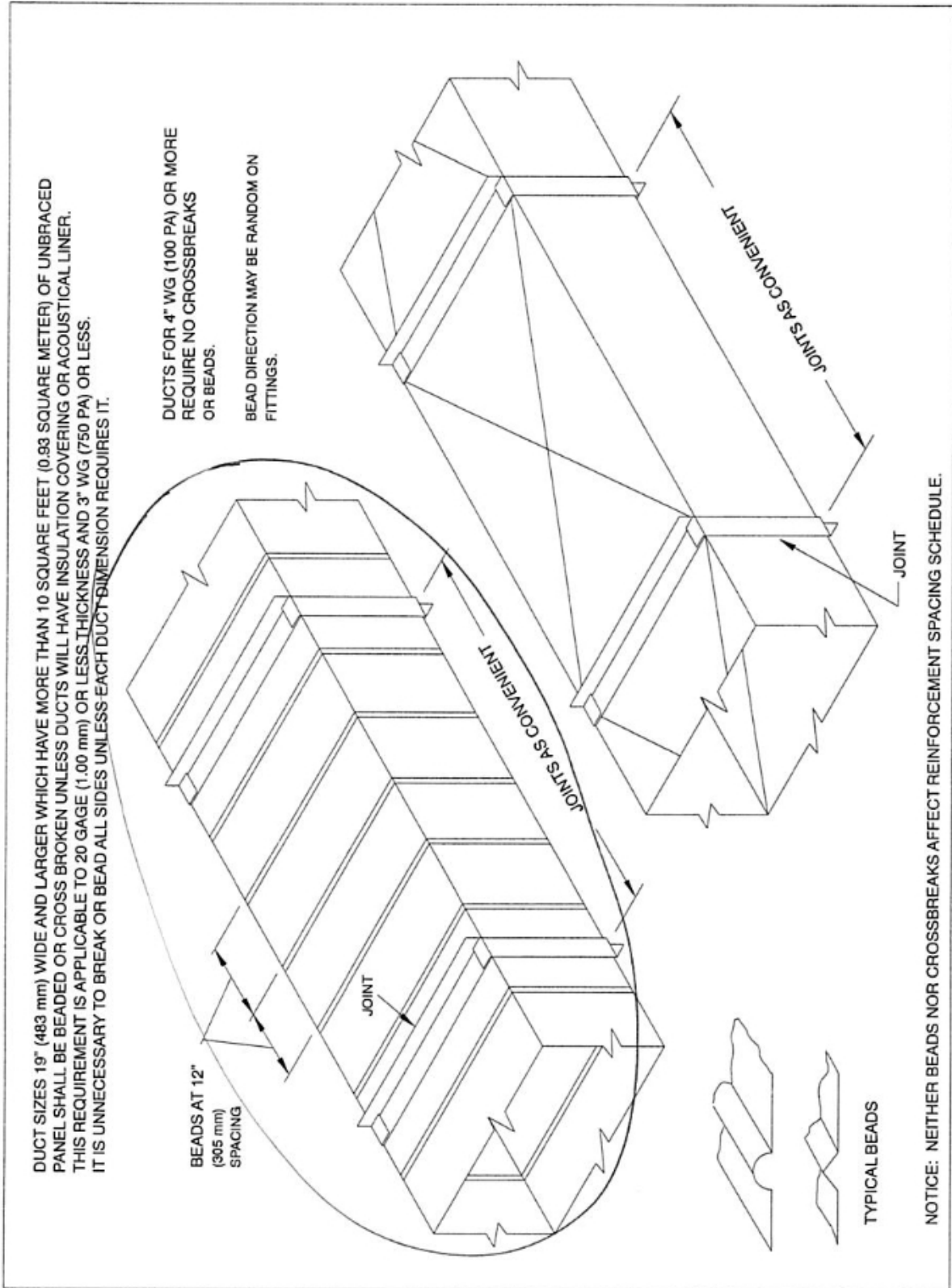


FIGURE 2-9 CROSSBROKEN AND BEADED DUCT

SUBMITTAL

Product: Duct Sealant and Tape

Manufacturer: Hardcast, Inc.

Job Name: HSU Reynolds Lab

Location: Arkadelphia, AR

Date: January 6, 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



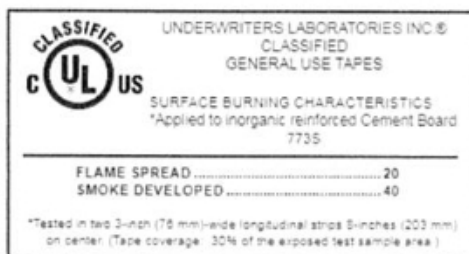
PRECAUTIONS

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

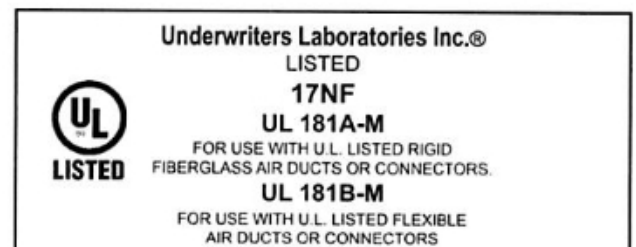
A versatile, all purpose duct sealant for use on all types of metal duct, fiberglass duct board, duct fabric and flex duct. CCWI- 181 incorporates a built-in polyester reinforcement for exceptional strength, with UV inhibitors for outdoor use. UL 181A-M listed / UL 181B-M listed.

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



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.

SUBMITTAL

Product: Flexible Duct Connector

Manufacturer: DURO DYNE

Job Name: HSU Reynolds Lab

Location: Arkadelphia, AR

Date: January 6, 2025

SUBMITTAL RECORD

JOB _____
 LOCATION _____
 SUBMITTED TO _____
 SUBMITTAL PREPARED BY _____
 APPROVED BY _____
 DATE _____

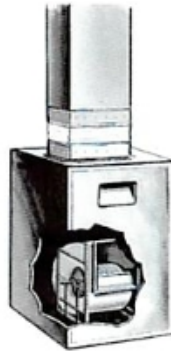


**Specification Form
 Stainless DDFDC
 Flexible Duct Connector**

DESCRIPTION

All air duct installations for heating, cooling or ventilation are attached to mechanical equipment containing a fan or blower. Vibrations, noises and rattles resulting from operation of the fan or blower are transmitted into the metal ducts which carry the noises throughout the system.

In order to isolate the vibration and noises to the source, an air-tight flexible joint, consisting of a fabric which is attached to sheet metal on both side, must be inserted between the equipment and the ductwork. This vibration isolator is called a "Flexible Duct Connector".



FABRIC COMPARISONS	Excelon [®] *	Neoprene	Durolon	Teflon
Continuous Temp. Range	-40°F. to 180°F.	-40°F. to 200°F.	-40°F. to 250°F.	-150°F. to 500°F.
Color	Black	Black	White	Grey Outside/ Beige Inside
Weight Per Square Yard	22	30	30±2 oz.	16.5
Leakage Resistance ¹	350	595	250	650
Tear Strength ²	100/100	12/12	20/20	50/30
Tensile Strength ³	240/220	500/450	475/375	400/300
ASTM E84 (Flame/Smoke)	10/250	10/55	10/120	0/5
NFPA 701	Yes	Yes	Yes	No
Base Fabric	Woven Nylon/ Polyester Blend	Woven Fiberglass	Woven Fiberglass	Fiberglass/Stain Weave
Coating	Vinyl	Neoprene	Hypalon	Teflon
Features	High Tear Strength High Abrasion Resistance	General Purpose	Excellent Ozone and Weathering Resistance Best Overall Acid Resistance	High Temperature Resistance High Corrosion Resistance Excellent Chemical Resistance
Metal-Fab 3x3x3 Grip Loc ⁺	MBXSS333 (#10231)	MFNSS333 (#10232)	MFDSS333 (#10234)	MCTSS333 (#10292)
TDC/TDF 4x4x4 Grip Loc	MBXSS444 (#10259) MBX316SS444 (#10275)	MFNSS444 (#10260)	MFD316SS444 (#10276)	MCTSS444 (#10293)
TDC/TDF 4x6x4 Grip Loc	MBXSS464 (#10262)	N/A	N/A	N/A

All stainless steel Flexible Duct Connector is manufactured by Duro Dyne with stainless steel type 304 stainless except those with 316 in the description (#10275 & #10276), .015 in thickness, with a 2B finish.

*304 stainless steel: Item # 10231, 10232, 10234, 10259, 10260, 10262, 10292 and 10293

*316 stainless steel: Item # 10275, 10276

Notes:

1. Leakage resistance as per Federal Test Standard 191 Method #5512. Results in P.S.I. (To convert inches of water multiply P.S.I. x 27.176.).
2. Tear strength in tongue pounds as per Federal Test Standard 191 Method #5134.1 (warp/fill).
3. Tensile strength in grab pounds as per Federal Test Standard 191 Method #5100 (warp/fill).
4. Standard Excelon is not LA city approved. Use Excelon-LA when LA city approval is necessary. (See Specification Form Excelon-LA - 203)

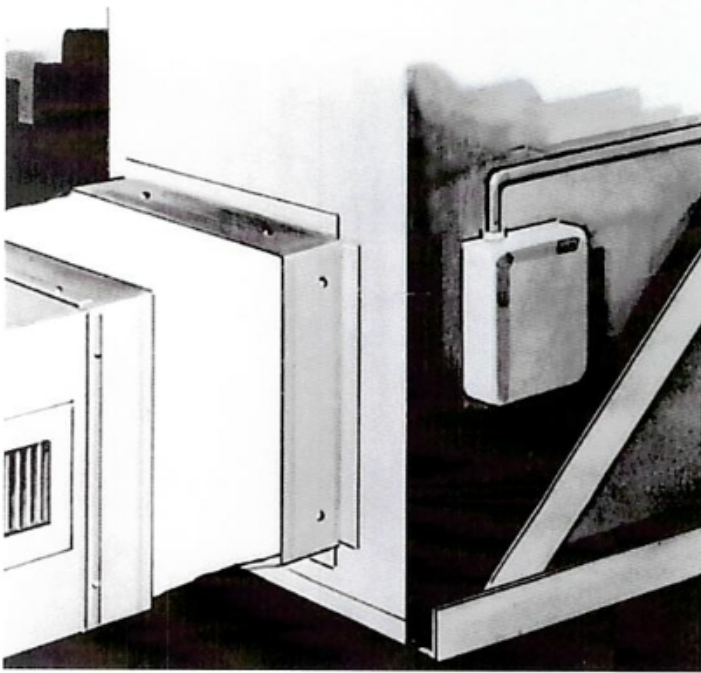
SUGGESTED SPECIFICATION

Vibration Isolating Flexible Duct Connector For Heating, Cooling & Exhaust Supplies & Returns.

At the inlet and discharge of all air handling equipment(unless otherwise noted) furnish and install vibration isolators. Vibration isolators shall be a coated woven fabric named _____ and shall be "Underwriters Laboratories Classified".

Vibration isolators shall have a tear strength of not less than _____, an abrasion resistance of not less than _____, and a continuous temperature range of _____. Vibration isolators shall be preassembled metal to exposed fabric to metal. Fabric and metal shall be joined by means of a double lock seam.

Vibration isolators shall be code _____ (called Flexible Duct Connectors) as manufactured by Duro Dyne Corporation, Bay Shore, N.Y.



Specifications

All Listed Duro Dyne Flexible Duct Connector Fabrics are designed to meet the following specifications:

1. MIL-C-20696B Para. 4.4.3. (Oil Resistance).
2. MIL-C-20696B Para. 4.4.4. (Hydro Carbon Resistance).
3. NFPA701 Tests for Flame Propagation of Fabrics and film (except Teflon).
4. California State Fire Marshal Approved.
5. Los Angeles City Approved. (See note 1 below)
6. Denver City Approved.

CHEMICAL RESISTANCE

(X = Extremely Resistant)

(~ = Not Recommended)

(O = No Data Available)

Chemical	Excelon	Neoprene	Durolon	Teflon	Chemical	Excelon	Neoprene	Durolon	Teflon
Acetic Acid	~	X	X	X	Hydrofluoric Acid (100%)	~	X	X	X
Aluminum Chloride	X	X	X	X	Hydrogen Peroxide	X	~	X	NR
Aluminum Sulfate	X	X	X	X	Hydrogen Sulfide	X	X	X	X
Ammonia (Anhyd)	X	X	X	X	Lactic Acid	~	X	X	X
Ammonium Hydroxide	X	X	X	X	Linseed Oil	~	X	X	O
Ammonium Sulfate	X	X	X	X	Magnesium Chloride	~	X	X	X
Barium Sulfide	X	X	X	X	Maleic Acid	X	~	X	O
Black Sulfate Liquor	X	X	X	X	Methyl Alcohol	~	X	X	X
Boric Acid	X	X	X	X	Methyl Cellosolve	~	X	X	O
Butyl Alcohol	~	X	X	X	Mineral Oil	X	X	X	X
Cadmium Plating Solution	X	~	~	O	Naptha	~	~	~	X
Calcium Chloride	X	X	X	X	Nickel Chloride	X	X	X	X
Calcium Hypochlorite	X	~	X	X	Nickel Sulfate	X	X	X	X
Chlorine Water	X	~	~	O	Nitric Acid (40%)	X	~	X	X
Chromic Acid	X	~	X	X	Oleic Acid	X	~	~	X
Chromium Plating Solution	X	O	O	O	Oleum	~	~	X	X
Citric Acid	X	X	X	X	Oxalic Acid	X	X	X	X
Copper Chloride	X	X	X	X	Phosphoric Acid (85%)	~	X	X	X
Copper Sulfate	X	X	X	X	Pickling Solution	X	~	X	O
Cottonseed Oil	X	X	X	O	Potassium Chloride	X	X	X	O
Diacetone Alcohol	~	X	X	O	Potassium Cyanide	X	X	X	X
Disodium Phosphate	X	~	~	O	Potassium Dichromate	X	X	X	X
Ethyl Alcohol	~	X	X	X	Potassium Hydroxide (40%)	X	X	X	X
Ethylene Glycol	~	X	X	X	Potassium Sulfate	X	X	X	X
Ferric Chloride	X	X	X	X	Propyl Alcohol	~	X	X	O
Ferric Sulfate	X	X	X	X	Sodium Chloride	X	X	X	X
Fluoroboric Acid	X	X	X	O	Sodium Hydroxide (40%)	~	X	X	X
Formaldehyde (40%)	X	X	X	X	Sodium Hypochlorite	~	~	X	X
Formic Acid	X	X	X	X	Steam	~	X	~	X
Glucose	X	X	X	X	Sulfur Dioxide (Liquid)	~	X	X	X
Glycerine	~	X	X	X	Sulfuric Acid (50%)	X	~	X	X
Heptane	~	X	X	X	Sulfuric Acid (over 50%)	~	~	X	X
Hexane	~	X	X	X	Tannic Acid	X	X	X	X
Hydrobromic Acid (40%)	~	X	X	X	Vinegar	X	X	X	X
Hydrochloric Acid (conc)	~	X	X	X					

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