

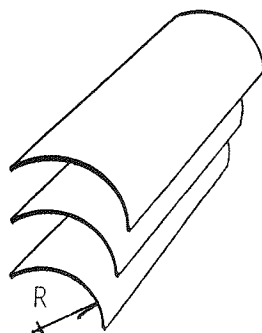
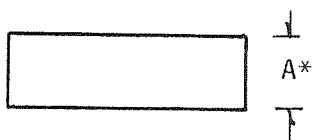
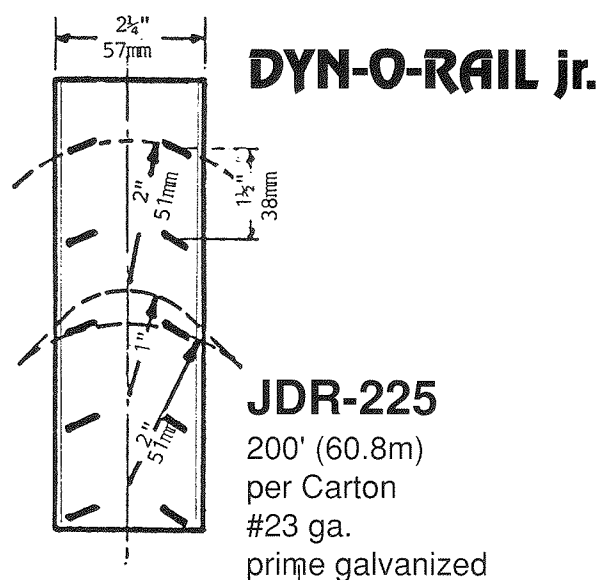
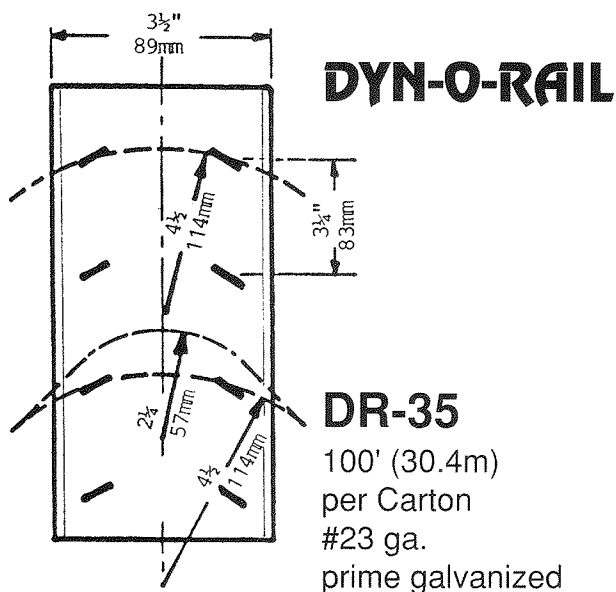
# DYN-O-RAIL

## DYN-O-RAIL jr.

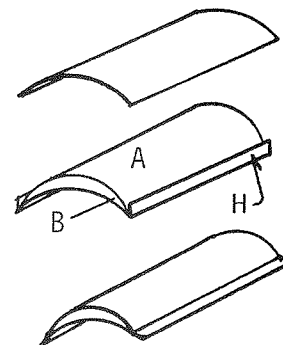
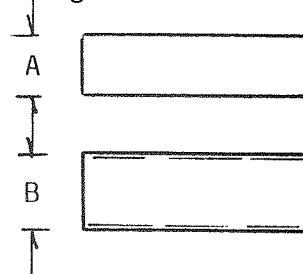
### AND VANE SETTER\*



- Sturdy Embossed-for-Stiffness Design - #23 ga.
- For use with Single or Hollow Vanes
- Relief Holes in slots help hold vanes during assembly
- Bevel Edges remain straight for better contact
- Use "VANE SETTER" tool and assembly jig for perfect results



DYN-O-RAIL	DYN-O-RAIL jr.
<b>SINGLE VANE</b> R=4.5" 115mm * A=7"+ 178mm+	<b>SINGLE VANE</b> R=2" 50mm * A=3.5"+ 89mm+
<b>HOLLOW VANE</b> A=8" 203mm B=8" 203mm H=0.5" 13mm	<b>HOLLOW VANE</b> A=3.5" 89mm B=3.75" 95mm H=0.375" 9mm

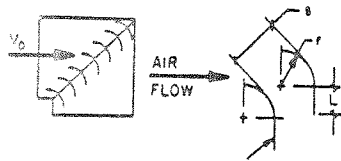


\* See SMACNA spec for additional width re: "Long trailing edge".

\* Patent

## Duct Design

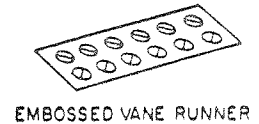
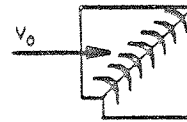
3-8 Elbow, Mitered, with Single-Thickness Vanes, Rectangular (Rozell 1974)



Design No.	Dimensions, mm			$C_d$
	$r$	$s$	$L$	
D-O-R jr	* 50	40	20	0.12
-	115	60	0	0.15
D-O-R	115	80	40	0.18

\* When extension of trailing edge is not provided for this vane losses remain approximately unchanged for single elbows but increase considerably for elbows in series.

3-9 Elbow, Mitered, with Double-Thickness Vanes, Rectangular (Rozell 1974)



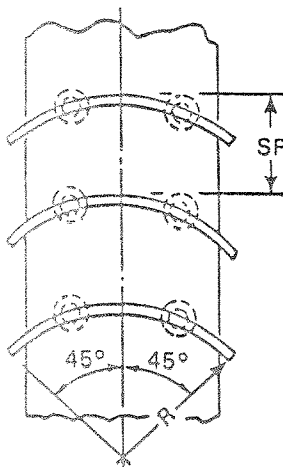
EMBOSSD VANE RUNNER



PUSH-ON VANE RUNNER

Design No.	Dimensions, mm		$C_d$				Remarks
	$r$	$s$	Velocity $V_2$ , m/s				
			5	10	15	20	
D-O-R jr	50	40	0.27	0.22	0.19	0.17	Embossed Vane Runner
P-RAIL	50	40	0.33	0.29	0.26	0.23	Push-On Vane Runner
-	50	55	0.38	0.31	0.27	0.24	Embossed Vane Runner
D-O-R	115	80	0.26	0.21	0.18	0.16	Embossed Vane Runner

## SMACNA STANDARDS FOR VANES AND RUNNERS

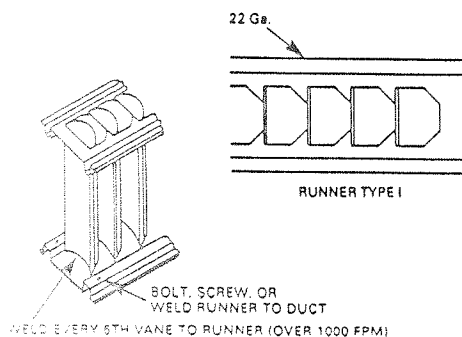
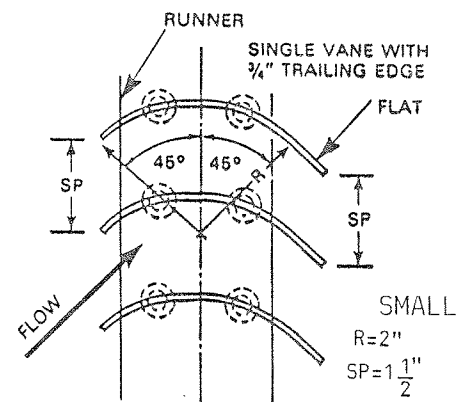


SINGLE VANE SCHEDULE			
	R	SP	GA.
SMALL	2"	1 1/2"	24
LARGE	4 1/2"	3 1/4"	22

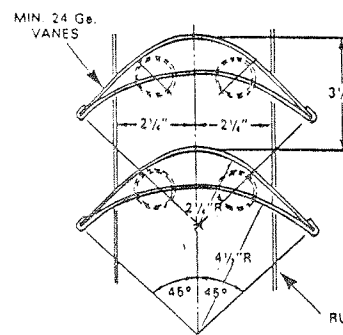
LARGE

$$R = 4 \frac{1}{2}''$$

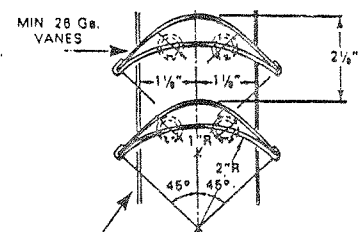
$$SP = 3 \frac{1}{4}''$$



WELD EVERY 6TH VANE TO RUNNER (OVER 1000 FPM)



WELD EVERY 8TH VANE TO RUNNER (OVER 1500 FPM)





## SUBMITTAL DRAWING SQUARE AND RECTANGULAR INSULATED ACCESS DOORS MODEL : ASR-C & ASR-H

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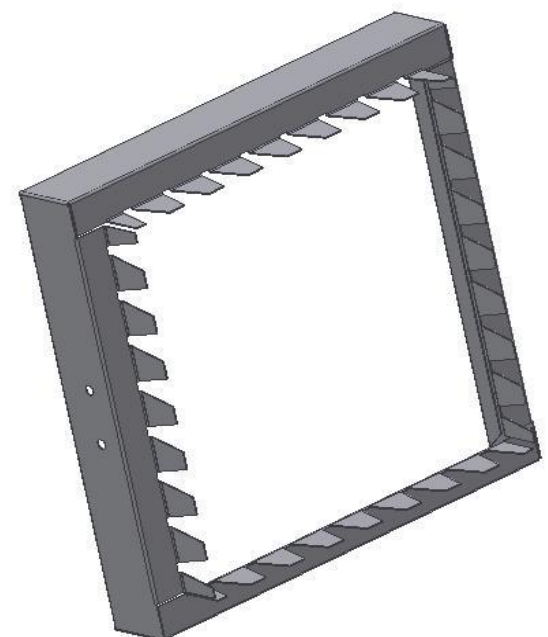
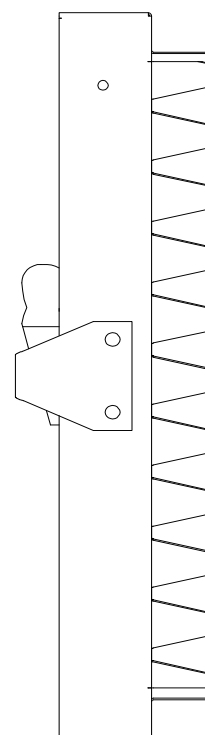
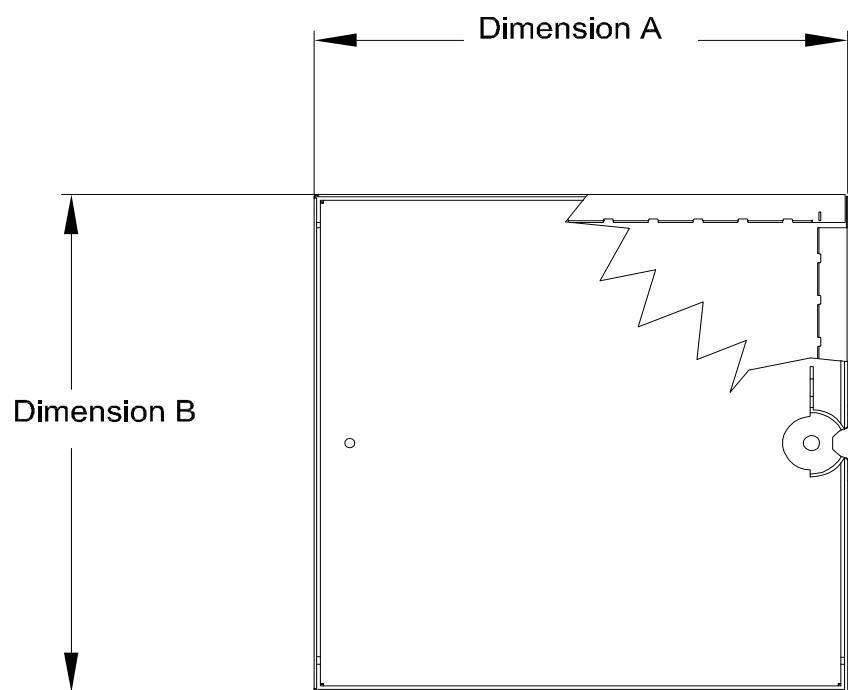
- 24 guage or 24 guage flanged frame and double panel galvanized steel door, guage depends on size.
- Notched knock - over
- High density, closed cell gasketing bonds, the door to the frame.
- Model ASR-C & ASR-H are complete with two (2) camlocks four (4) may be required on large size doors.
- Safety retaining chain is available as an option.
- Doors are complete with continous piano type hinge on one side and one (1) or two(2) camlocks on the opposite side for sizes upto 14".
- Over 14" same continous hinge on one side, and two (2) camlocks on the other.
- Meets SMACNA specifications
- Manufacture any size upto 44x44
- Door c/w 1" (25mm) or 2" (50mm) insulation
- Contact factory for pricing

### OPTIONS:

- ☐ Stainless steel 304
- ☐ Stainless steel 316

### NOTE:

Camlock is available in galvanised steel finish only



FOB our Plant, Taxes Extra  
Delivery~ 7~ 10 working days

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Project:  
Location:  
Architect  
Engineer:

Contractor:  
Address:  
P.O. Number:  
Date:

# Triple Lock™

## Aluminum FLEXIBLE DUCTING



- Three ply mechanical airtight seam
- Manufactured from dead soft pure aluminum
- ULC Listed
- Greater flexibility
- Exceptional strength
- Corrosive resistant
- Air tight and leakproof
- Vibration deadening properties
- Lightweight and self supporting
- Highly puncture resistant
- High pressure rated

### Triple Lock™ T/L

A semi-rigid and lightweight non-insulated air duct, manufactured using a dead soft aluminum strip which is spirally wound and mechanically joined together to form an air tight and leakproof three ply mechanical seam. A self-supporting and corrosive resistant ULC-S110 and UL-181 Class 1 product that provides excellent strength and flexibility. Adaptable to any low to high pressure heating, ventilation and air conditioning system.

### Suggested Specification

Flexible duct shall be Triple Lock™ T/L aluminum by Flexmaster. The duct shall be made of dead soft aluminum and manufactured in a manner to produce a three ply mechanical airtight seam forming a continuous and secure air tight joint. This flexible aluminum duct will be listed in accordance with ULC-S110 and classified as Class 1.

Material	Aluminum
Maximum Rated Velocity	20.3 m/s (4000 fpm)
Maximum Positive Pressure	3kPa (12 in. WC)
Maximum Negative Pressure	0.25 kPa (1 in. WC)
Temperature Range	-40°F to +600°F ( -40°C to +316°C )
Bend Radius	1½ x diameter
Available Sizes	2" to 24"
Standard Lengths	10ft
ULC Listing	Class 1 Connector

NOTE: This ULC Class 1 product has a flame spread rating of not over 25 without evidence of continued progressive combustion and a smoke developed rating of not over 50.

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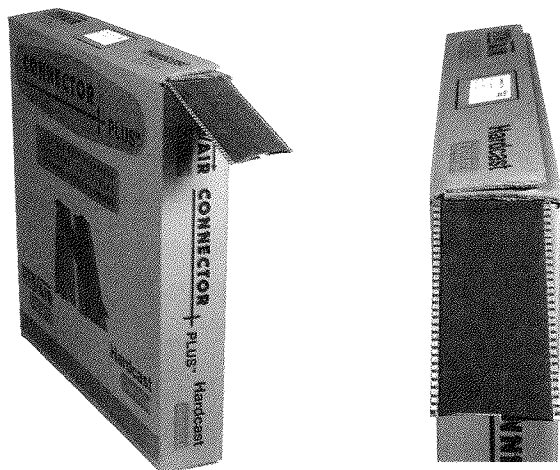
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Tel 613.744.7360	Fax 613.744.7366
Tel 514.697.3701	Fax 514.697.3767
Tel 905.731.9411	Fax 905.731.7086

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THE NOVA FLEX® GROUP



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Website: [www.flexmaster.com](http://www.flexmaster.com)



NEOPRENE is the choice of specifying engineers. It is the industry standard, retaining its flexibility and aging characteristics over a long period of time. NEOPRENE offers high resistance to a broad range of chemicals, acids and alkalis and can be used with confidence on all high velocity and high pressure HVAC systems.

#### TECHNICAL DATA

Basic Fabric	Fiberglass weave
Coating	Neoprene (chloroprene)
Weight	30 oz/yard <sup>2</sup> (1017 g/m <sup>2</sup> )
Thickness	.027 inches (686 mm)
Tensile Strength	475 x 375 lbs. (2114 x 1669 N)
Burst Strength	750 psi + (5171 kPa)
Tear Strength	25 x 20 lbs. (111 x 89 N)
Heat Range	-35°F + 235°F (-37°C + 112°C)
Fire Rating	Self-extinguishing fabric. Surpasses all requirements for Duct Connectors as per National Fire Protection Association Standard 90A and 90B. Meets ULC-S109, 1969 standards of Flame Tests of Flame Resistant Fabrics. Fabric is tested in accordance with ANSI/UL-214 for flame propagation of fabrics and films.

#### SPECIFICATION/STANDARDS COMPLIANCE

Property	Method	Results
Flame Propagation of Fabrics and Films*	ANSI/UL-214	Pass
Surface Burning Characteristics of Building Materials	ASTM-E84	Pass
	Los Angeles Approval RR# 8434	Pass

#### FEATURES AND BENEFITS

- The industry standard for air handling systems
- Airtight, waterproof and resistant to mildew
- Resistant to many acids, oils, alkaline, toxic fumes
- Used in high velocity, high pressure systems

# Triple Lock™ Thermal Duct

## Thermal FLEXIBLE DUCTING



- Three ply mechanical airtight seam
- Manufactured from dead soft pure aluminum
- Vapour barrier
- ULC listed
- Greater flexibility
- Exceptional strength
- Corrosive resistant
- Air tight and leakproof core
- Vibration deadening properties
- Lightweight, self supporting
- Low permeability barrier
- Thermal reliability

### Triple Lock™ T/L-T

An insulated air duct which is spirally wound and mechanically joined together. The inner duct is draped with thick fiberglass insulation and covered with a flame retardant non-toxic polyethylene vapour barrier. The ULC-S110 and UL-181 Class 1 product is an excellent insulated air duct for most energy efficient heating and cooling systems.

### Suggested Specification

Flexible duct shall be *Triple Lock™ T/L-T* by *Flexmaster*. The duct will be made of dead soft aluminum and manufactured in a manner to produce a three ply airtight mechanical seam. The core will be factory wrapped in fiberglass insulation and covered with a flame retardant, non-toxic polyethylene vapour barrier. This flexible insulated aluminum duct will be listed in accordance with ULC-S110 and classified

Material:	Aluminum core, 1" insulation, polyethylene vapour barrier
Maximum Rated Velocity:	20.3 m/s (4000 fpm)
Maximum Positive Pressure:	3.0 kPa (12 in. WC)
Maximum Negative Pressure:	0.25 kPa (1 in. WC)
Temperature Range:	-40° to 250°F (-40°C to 121°C)
Bend Radius:	1½ x diameter
Available Sizes:	4" to 20"
Standard Lengths:	10ft
ULC Listing:	Class 1 Connector

NOTE: This ULC Class 1 product has a flame spread rating of not over 25 without evidence of continued progressive combustion and a smoke developed rating of not over 50.

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