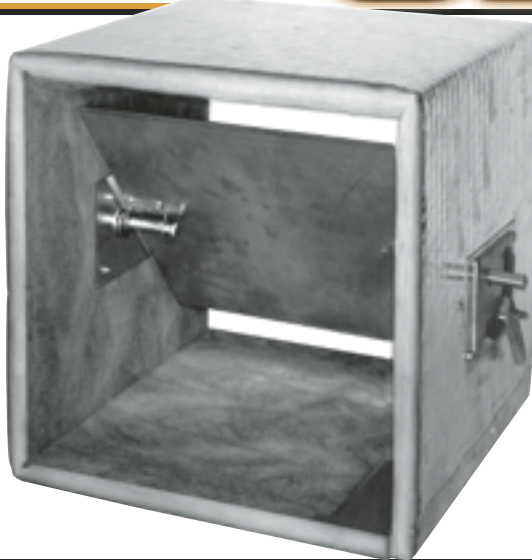


DUCT BOARD SYSTEMS

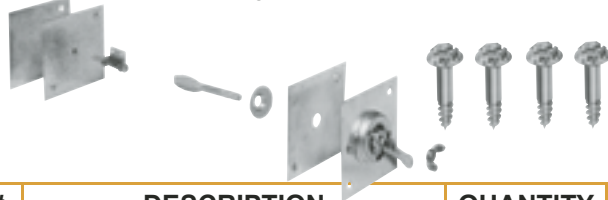


Fiberglass Duct Board Systems present special problems in the design and fabrication of air regulation devices. Regulators must be firmly attached to the duct using adequate support. Attachments should be made in a way which prevents over compression of the duct wall. Damper bearings must be of sufficient length to accommodate the one inch duct wall thickness. Access doors must not compromise duct integrity and provide a quality seal with minimal leakage. All of this, and more, has been taken into consideration in the design of Glasline Ductboard Accessories.

GR-14

1/4" Duct Board Damper Regulator Sets

These heavy gauge plated steel regulators are among the most popular on the market. They minimize leakage and reduce rattle. A wing nut locks damper in position, yet permits quick readjustment. Dial shows damper position at a glance.



ITEM#	DESCRIPTION	QUANTITY
36001	1/4" Duct Board regulator Set consists of plate mounted 1/4" damper regulator, backup plate, 1/4" threaded long bearing, washer & wing nut, plus inside bearing plate & outside back-up plate, 1/4" spring loc bearing & screws.	10
Now shipped with screws for 1, 1 1/2 and 2" ductboard.		

GR-38

3/8" Duct Board Damper Regulator Sets

This set utilizes Duro Dyne's wedge-loc design to lock square bearing to regulator handle when damper is set. Prevents rattling. Heavy construction. Minimum air leakage and easy adjustability makes this ideal for large dampers.



ITEM#	DESCRIPTION	QUANTITY
36005	3/8" Duct Board regulator Set consists of plate mounted 3/8" damper regulator, back-up plate, 3/8" square long bearing plus inside bearing plate & outside back-up plate, 3/8" spring loc bearing & screws.	10
Now shipped with screws for 1, 1 1/2 and 2" ductboard.		

Sets & Parts

	ITEM#	DESCRIPTION	QUANTITY
	36002	1/4" Duct Board GR-1 back-up plate & plate-mounted 1/4" damper regulator	25
	36003	GR-2 outside back-up & inside 1/4" bearing plates	25
	36004	GR-3 1/4" threaded long bearing, washer & wing nut	100
	8065	KP6 1/4" spring loc bearing	100
	36061	GSS Glasline Stop Screws (1 3/8")	100
	36058	GSS-Glasline Stop Screw XL (1 7/8") for 1 1/2"	100
	36059	GSS-Glasline Stop Screw XXL (2 3/8") for 2"	100

	ITEM#	DESCRIPTION	QUANTITY
	36006	3/8" Duct Board GR-4 back-up plate & plate-mounted 3/8" damper regulator	25
	36007	GR-5 outside back-up & inside 3/8" bearing plates	25
	8066	KP7 3/8" spring loc bearing	100
	8072	KP9L 3/8" long square bearing	100
	36061	GSS Glasline Stop Screws (1 3/8")	100
	36058	GSS-Glasline Stop Screw XL (1 7/8") for 1 1/2"	100
	36059	GSS-Glasline Stop Screw XXL (2 3/8") for 2"	100

Glasline Reinforcing Washers

Type GRW

- ◆ 2 1/2" x 2 1/2" Zinc Plated Steel
- ◆ 22 Gage Thickness
- ◆ 1/8" Diameter Hole
- ◆ Beveled Edges to Prevent Against Foil Tears
- ◆ Cross Ribbed for Added Strength
- ◆ Central Embossing for Maximum Rigidity
- ◆ Meets SMACNA Specifications

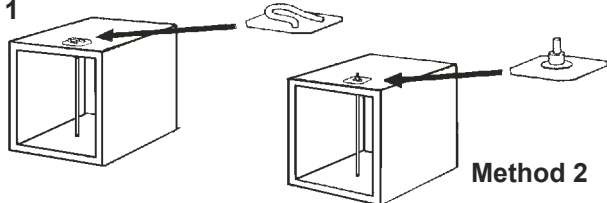


Two Application Methods

Method 1

Wire - galvanized wire should be a minimum 12 gauge (0.106") and cut to 8" longer than the inside duct dimension. Bend wire against reinforcing washer as shown below.

Method 1



Method 2

A pop rivet sleeve is crimped onto the wire with the flange away from the end of the wire, using a crimping tool. The wire is inserted through the washer and through the duct so that the pop rivet sleeve is outside the washer and the sleeve flange rests on the washer. The wire is inserted through the duct, another washer placed over the wire, another pop rivet sleeve inserted onto the wire, as before, and crimped. As seen above.

ITEM#	DESCRIPTION	QUANTITY
36010	GRW 316 reinforcing washer- 3/16" hole	500
36076	GRW reinforcing washer- 1/8" hole	1000
36077	GSL reinforcing washer	1000

Glasline Screws & Washers

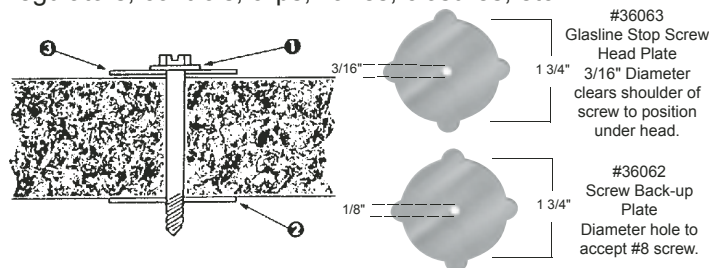
For Duct Board Systems

Specially designed for making attachments to duct board. Allows for firm attachments without undue compression of fiberglass.

Fastening System Consists Of:

- 1- No. 8 Drill Screw with 1/2" of thread.
- 2- Back-up plate to accept No. 8 screw.
- 3- Head plates as required.

Use for all types of fastening such as attachment of damper regulators, controls, clips, vanes, closures, etc.



ITEM#	DESCRIPTION	QUANTITY
36061	GSS-Glasline Stop Screws (1 3/8") for 1"	100
36058	GSS-Glasline Stop Screw XL (1 7/8") for 1 1/2"	100
36059	GSS-Glasline Stop Screw XXL (2 3/8") for 2"	100
36062	GSP-Glasline Stop Screw Back-up Plate	100
36063	GSH-Glasline Stop Screw Head Plate	100

Glasline Grille Clips

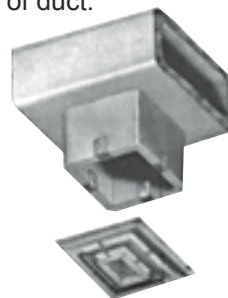
Glasline Grille Clips provide the most convenient and economical means of attaching grilles and diffusers to the ends of fiberglass ducts. Works equally well for square as well as round diffusers. **The Grille Clips** are provided as flat plates which bend easily into shape where offset prongs penetrate the glass duct, holding firmly. Ample tolerance is allowed in the clip design to receive the grille attaching screws.

Glasline Grille Clip is shipped flat



Prebend by hand as shown

Mount Glasline Grille Clip to edge of fiberglass duct by pressing arrows into the duct as shown. Keep the long side of clip to the inside of duct.

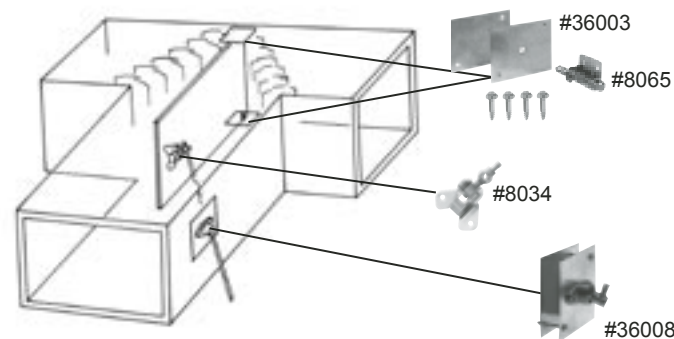


Method of mounting an overhead register using Glasline Grille Clips.

ITEM#	DESCRIPTION	QUANTITY
36060	GC-1 Glasline Grille Clip for 1, 1 1/2 & 2" Ductboard	100

Now with extra slots for use with 1 1/2 and 2" ductboard.

Splitter Damper Hardware



ITEM#	DESCRIPTION	QUANTITY
36046	SDS-1 Splitter Damper Hardware Kit - consists of parts listed below in the following quantities: 1 - 36008, 2 - 36003, 2 - 8065, 1 - 8034	25 Sets
36008	SDC Plate Mounted Ball Joint Damper Casting, back-up plate & screws	25 Sets
36003	GR-2 1/4" Back-up & End Bearing Plates	25 Sets
8065	KP-6 Spring Loc Bearing	25 Sets
8034	SRP-40 Splitter Damper Bracket	25 Sets

Now shipped with screws for 1, 1 1/2 and 2" ductboard.

Glasline Quieturn™

Heavy Density Molded Fiberglass Turning Vanes For Simple Low Cost Field Installations In Duct Board Systems



- ◆ Heavy density molded fiberglass turning vanes keep duct turns quiet.
- ◆ Cut, assemble and install vanes quickly... at the job site or at the shop.
- ◆ Fiberglass vanes easily combine with steel side rails to make rigid duct turn assembly.
- ◆ Low cost per square foot of Quieturn assembly compares favorable to shop fabricated methods.
- ◆ Uniform, factory built efficiency assured at all times.

Acoustical Data

Independent Acoustical Laboratory tests verify acoustical attenuation and erosion properties of Quieturn vanes as follows:

- ◆ Quieturn Vanes when installed do not generate metal to metal vibrations which are transmitted throughout duct system.
- ◆ Quieturn Vanes do not set up sympathetic vibration noise present in many vane installations.

- ◆ Quieturn Vanes are subjected to noise generated by fans at velocities of 1500 FPM to 2500 FPM substantially reduced generated noise in the third through eighth octave band spectrums.

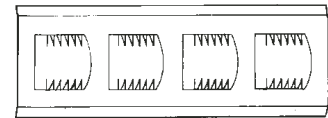
Quieturn Vane System consists of:

- ◆ Heavy density pressure molded fiberglass vanes with proven performance at velocities of 4000 F.P.M. (Quieturn Vanes passed erosion testing procedure outlined in UL 18115, at velocities up to 10,000 feet per minute.)
- ◆ Vanes are supplied in six foot lengths. Easily cut to length with ordinary cutting knife. Weight approx. 2 oz. per lineal foot.

ITEM#	DESCRIPTION	QUANTITY
4005	QV-Quieturn Vanes	504'
4012	QV-14 Quieturn Vanes	126'

Quieturn Steel Side Rails

Side rails - Made of 24 gauge steel. Vanes assemble on three inch centers to provide quiet and efficient turn systems. Supplied in coils containing 100 feet, rail edges pull up close to duct when assembled to prevent noise generation.

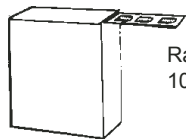


ITEM#	DESCRIPTION	QUANTITY
36050	QR2-Quieturn Rail in dispenser carton	100'

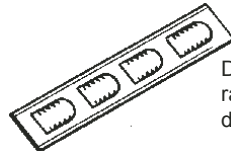
* Can also be used in conjunction with 2" Hollow Steel Turning Vanes.

Quieturn Installation

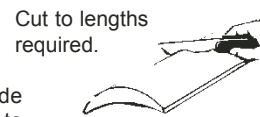
Using The Side Rail System



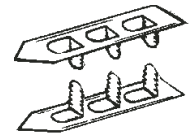
Rail supplied in 100 ft. coils.



Dispense Quieturn side rail from box and out to desired length.

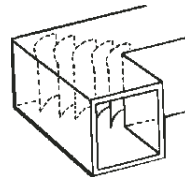
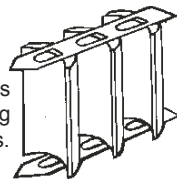


Cut to lengths required.

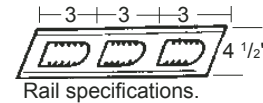


Cut ends and press serrated prongs out so they are standing perpendicular to rail.

Assemble vanes to rail by pressing firmly over prongs.



Vane section installed; secure rails to duct using Duro Dyne Stop Screws & head plates.



Rail specifications.

ITEM#	DESCRIPTION	QUANTITY
4011	QV Template	1

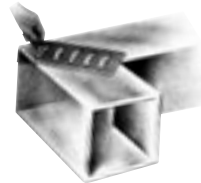
Alternate Method

Cutting Slots In Duct

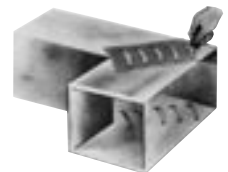
1. Place the QV template across the elbow diagonally, as you would position a turning vane section. The two locating tabs will line up the template for you. Then press the holding pin into the board to lock the template into place.



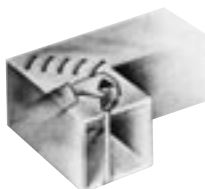
2. Using any standard board cutting knife, cut out the half moon sections. (Note: it is easier if the cuts are started from the center and cut outward).



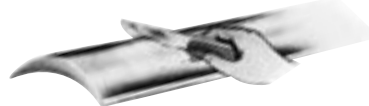
3. Turn elbow over and repeat steps 1 and 2.



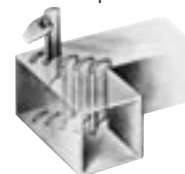
4. Measure the outside height dimension of the duct.



5. Measure off the lengths of vane needed and cut with any standard board cutting knife. (Note: Vane should be laid flat and cut across the spine side as shown.)



6. Insert vanes into cut slits. Vanes should be flush top and bottom.

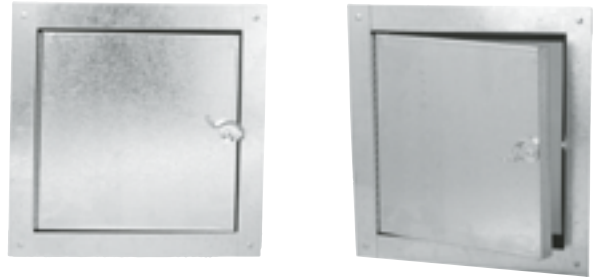


7. Tape both sides to cover & secure vanes in position.



Glasline Insulated Access Doors

Duro Dyne's DBD Series Door is an insulated access door specifically designed for use with ductboard. The DBD Door is designed for quick and easy installation. Simply cut the appropriate size hole in the duct, remove the release paper from the adhesive strip on the door, and press the door into position. Complete the installation by pushing the nails provided through the eight holes in the frame and capping them with the speed nuts, also provided, on the inside of the duct.

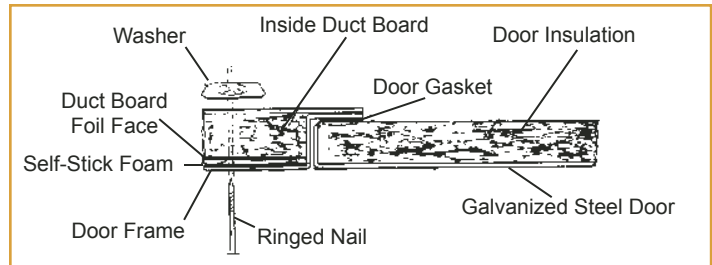


Features:

- ◆ **Flush Mount**
Both frame and door mount flush to outside of duct.
- ◆ **Fast Mounting Frame**
Just cut hole in duct, remove release paper from door & press into position.
- ◆ **Secure Installation**
Adhesive foam tape combined with ringed nails & washers provide a secure installation.
- ◆ **Fully Insulated**
1" thick - 2 lb. density minimum
- ◆ **Hinged Control**

Specifications:

- ◆ Door & Frame - 24 gauge galvanized or heavier
- ◆ All hardware plated
- ◆ Zinc plated camlocks & hinge
- ◆ 1/8" x 1/2" closed cell neoprene gasketing between door & frame



ITEM#	DESCRIPTION	QUANTITY
36066	DBD 8"x8"	10
36067	DBD 10"x10"	10
36068	DBD 12"x12"	10
36069	DBD 14"x10"	10
36070	DBD 16"x16"	10
36071	DBD 18"x18"	10

* Special models and sizes can be fabricated with multiple walls of steel.

S-System™ Access Doors



Features:

- ◆ Available for 1" or 1 1/2" Ductboard
- ◆ Quick Installation
- ◆ Insulated with 1" or 1 1/2" Ductboard Insulation
- ◆ Two Locking Cams
- ◆ Made of 22 Gauge Galvanized Steel

Specifications:

- ◆ Minimum 22 Gauge Galvanized Steel
- ◆ 1/4" Thick x 3/4" Wide Closed Cell Vinyl Gasketing
- ◆ 2 Zinc Plated Camlocks
- ◆ 1" or 1 1/2" Thick Ductboard Insulation

<i>S-System</i> ACCESS DOOR FOR 1" DUCTBOARD		<i>S-System</i> ACCESS DOOR FOR 1 1/2" DUCTBOARD		OPENING IN DUCT
ITEM #	DESCRIPTION	ITEM #	DESCRIPTION	
36080	SDD10 10"x10"	36090	SDD15 10"x10"	9 1/2"x10"
36081	SDD12 12"x12"	36091	SDD15 12"x12"	11 1/2"x12"

Duro Dyne National Corp., 81 Spence St., Bay Shore, NY 11706
 Duro Dyne East Corp., 81 Spence St., Bay Shore, NY 11706
 Duro Dyne West Corp., 15005 Marquardt Ave, Santa Fe Springs, CA 90670
 Duro Dyne Midwest Corp., 3825 Symmes Rd., Fairfield, OH 45011
 Duro Dyne Canada Inc., 5030 Francois-Cusson, Lachine, Quebec H8T1B3
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