GRANT & DZURO
Engineers
Surveyors
Planners

August 27, 2003

Mr. Louis Fernandez, Environmental Specialist
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619

RE: DUBLIN INVESTMENTS, LLC - WILDWOOD, FLORIDA CONCRETE BATCH PLANT
SUMTER COUNTY, FLORIDA

Dear Mr. Fernandez:

Dublin Investments, LLC intends to expand a concrete batch plant currently under construction in Wildwood, Florida. Construction authorized by the original permit (#7775208) is underway; and the owner plans to add a second batching facility on the same site, adjacent to the original facility. Per our telephone conversation on August 26, 2003, it is our understanding that a new permit will be issued for the combined facility and that the original permit will be cancelled upon activation of the new permit. We have enclosed the following documents for your review:

1. One (1) copy of the Concrete Batch Plant - Air General Permit Notification Form, Part III;

2. One (1) check in the amount of $100.00 to cover the application review fee.

As the owner would like to begin construction of the expansion as soon as possible, we respectfully request that you review this application at your earliest convenience and contact us via telephone or e-mail with any questions or requests for additional information.

Sincerely,

John R. Grant, P.E.
(ron.grant@thevillages.com)

JRG/rad

Enclosures

cc: Ted Graham
John Parker

1100 Main Street The Villages, FL 32159
Tel No. (352) 753-6260 Fax No. (352) 753-6264

CONCRETE BATCHING PLANT
AIR GENERAL PERMIT NOTIFICATION FORM

Part III. Notification of Intent to Use General Permit

(Submit this Part to the appropriate permitting office and keep copy of completed form onsite. Instructions follow.)

Instructions to Owner or Operator: To give notice to the Department of an eligible facility's intent to use the concrete batching plant air general permit, the owner or operator of the facility must detach and complete Part III of this Concrete Batching Plant Air General Permit Notification Form and submit it to the appropriate Department of Environmental Protection district office or local air pollution control program office which has been delegated permitting authority. Please type or print clearly all information and enclose the appropriate general permit processing fee pursuant to Rule 62-4.050(4)(o), F.A.C. Please note, the form will not be considered complete unless: 1) the processing fee is attached; 2) if appropriate, the proof of notice publication is attached; and 3) if the facility is existing, visible emissions testing was conducted within 60 days of submitting the form and the test results have already been submitted to the appropriate permitting authority or accompany the form. Also, please refer to the instructions for completing Part III of the notification form at the end of the form.

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner): **Dublin Investments, LLC**
Site Name (For example, plant name or number): **Wildwood Plant**
Facility Location: Street Address: **4303 E. C-462** City: **Wildwood** County: **Sumter** Zip Code: **34785**
Facility Start-Up Date: **October 31, 2003**
Relocatable: **X** YES ☐ NO

Notification Type

Check one:

X NEW: Notification of a proposed *new* concrete batching plant.

☐ **EXISTING**: Notification of an *existing* permitted concrete batching plant.

☐ **RENEWAL**: Notification for permit renewal of an *existing* concrete batching plant.

Owner/Authorized Representative

Name and Title:
Ted Graham, Vice President

Owner/Authorized Representative Mailing Address:
Organization/Firm: **Dublin Investments, LLC**
Street Address: **P.O. Box 3099**
City: **Dublin** State: **GA** Zip Code: **31027**

Owner/Authorized Representative Telephone Number:
Telephone: **(478) 272 - 9990** Fax: **(478) 275 - 4289**

Facility Contact (If different from Owner/Authorized Representative)

Name and Title:
Same as owner

Facility Contact Mailing Address:
Organization/Firm:
Street Address:
City: County: Zip Code:

Facility Contact Telephone Number:
Telephone: ( ) - Fax: ( ) -

Facility Comments

The Dublin Investments, LLC Wildwood Plant is a complete concrete batch plant manufactured by Stephens Mfg. Co., Inc. The plant consists of two batching facilities. The small plant includes one 528 bbl cement silo and one 1069 bbl cement silo, 150 ton aggregate bin and associated loading conveyors. The large plant includes a 2000 bbl cement silo, 250 ton aggregate bin and associated loading conveyors. The facility anticipates producing up to 1000 c.y. of ready-mix concrete per day. Cement will be stored in silos and aggregates will be stored in piles adjacent to the batching facilities. Hours of operation are generally anticipated from 6:00 am until 4:00 pm.
(subject to change based on daylight savings time, etc.)

Emissions Unit(s) Description

The Dublin Investments, LLC Wildwood Plant is a complete concrete batch plant manufactured by Stephens Mfg. Co., Inc.

Plant 1

The small plant consists of one 528 bbl cement silo and one 1069 bbl cement silo, 150 ton aggregate bin and associated loading conveyors. The air pollution control equipment consists of 3 components. Each silo includes a Stephens SV-1020 silo "cartridge" vent consisting of 450 s.f. of filter bags constructed of 100% polyester filter cloth. Silo loading rate is expected to be 25 tons/hr. A Stephens SV-20 batcher vent located on top of the cement batcher will be included to collect dust particles during the batching process. SV-20 filter bags are constructed of polyester/Dacron filter cloth. A Stephens SQS-4000 recovery system will be included between the batching hopper/conveyor drop point and the mixer truck-loading chute.

Plant 2

The large plant consists of a 2000 bbl cement silo, 250 ton aggregate bin and associated loading conveyors. The air pollution control equipment consists of 2 components. The silo will be vented through the SV-6800 recovery system described below. Silo loading rate is expected to be 25 tons/hr. A Stephens SV-20 batcher vent located on top of the cement batcher will be included to collect dust particles during the batching process. SV-20 filter bags are constructed of polyester/Dacron filter cloth. A Stephens SOS-6800 recovery system will be included to vent the cement silo and collect emissions that occur between the batching hopper/conveyor drop point and the mixer truck-loading chute.

The processing area will be paved or primed with liquid asphalt to reduce emissions. Water will be added to the processing area as necessary to reduce emissions. Emissions from aggregate stockpiles will be controlled by adding recycled Type II wastewater.

Product data for the Stephens Mfg. Co., Inc. concrete batch plant and dust collectors is attached.

Surrender of Existing Air Permit(s) except Air General Permits (do not complete for renewal notifications)

Check one:

☐ I hereby surrender all existing air permits authorizing operation of the facility indicated on this form; specifically permit number(s)_____.

☐ No air permits currently exist for the operation of the facility indicated on this form.

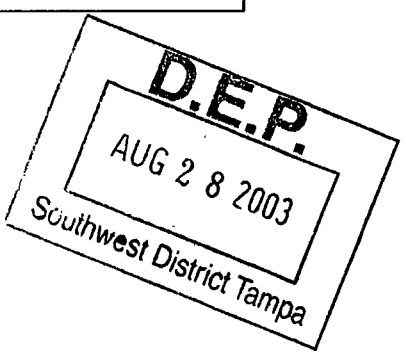
Owner/Authorized Representative Statement

I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Notification Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this notification are true, accurate and complete. Further, I agree to operate and maintain the facility and any air pollution control equipment described in this notification so as to comply with all applicable standards and requirements for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.

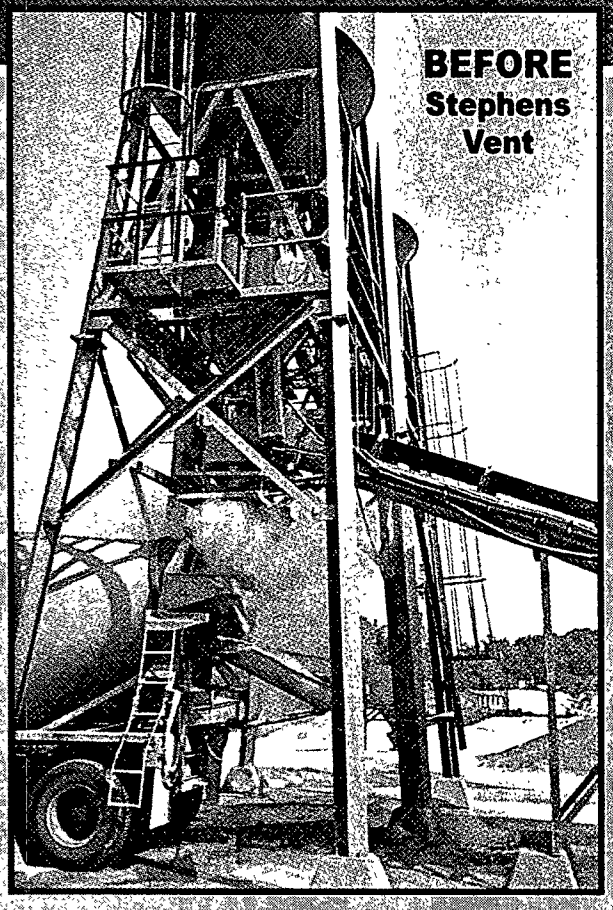
I will promptly notify the Department of any changes to the information contained in this notification.

Signature

8-27-03
Date



DUST COLLECTORS



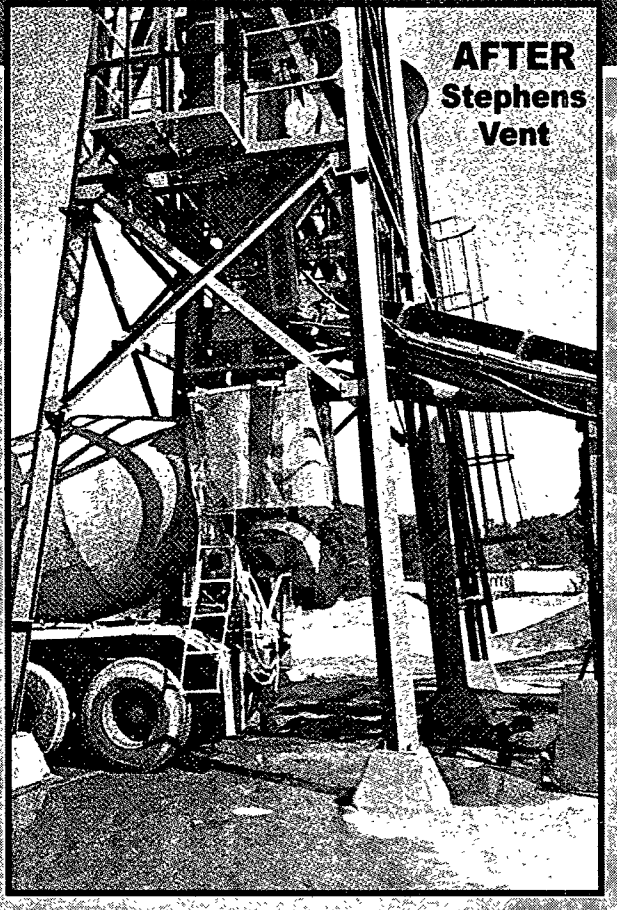
FOR:

READY MIX TRUCKS

CENTRAL MIXER

CEMENT & FLYASH SILOS

CEMENT WEIGH BATCHER



Stephens Mfg. has been supplying the concrete industry with quality filtration systems for more than thirty years. Whatever your particular need, Stephens Mfg. has the experience to meet your environmental requirements. Stephens Mfg. maintains a complete stock of equipment and parts ready for next day delivery.

CALL 1-800-626-0200
FOR MORE INFORMATION.

Stephens

MFG. CO. INC.

TOMPKINSVILLE, KY 42167
1-800-626-0200 • (270) 487-6774
Fax: (270) 487-8368

MEMBER OF:

CONCRETE PLANT MANUFACTURERS BUREAU

NATIONAL READY MIXED CONCRETE ASSOCIATION

CIMA CONSTRUCTION INDUSTRY MANUFACTURERS ASSOCIATION

CONTROL SYSTEMS MANUFACTURERS DIVISION

WE SUPPORT

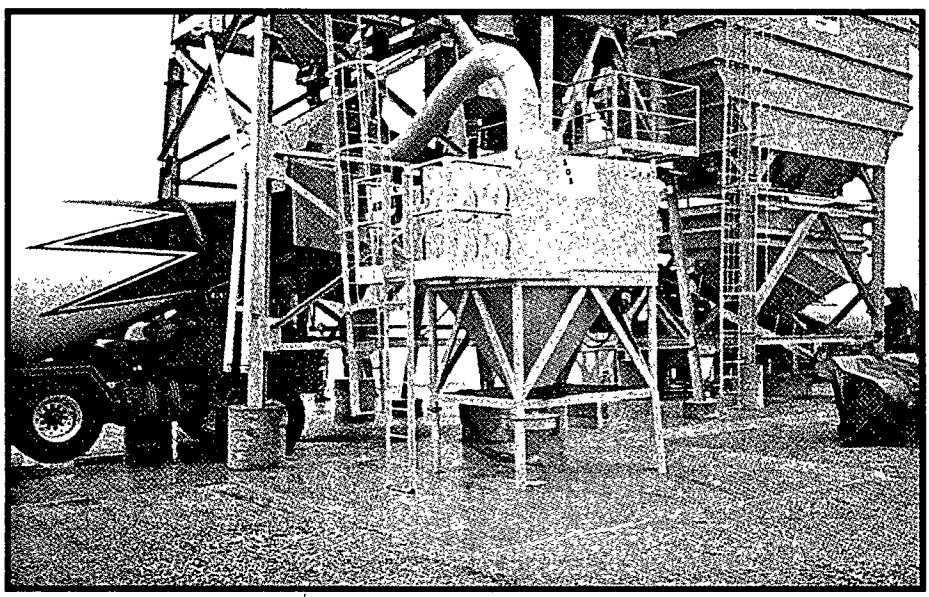
NRMCA VISION

Enriching • Inspiring Empowering

www.stephensmfg.com

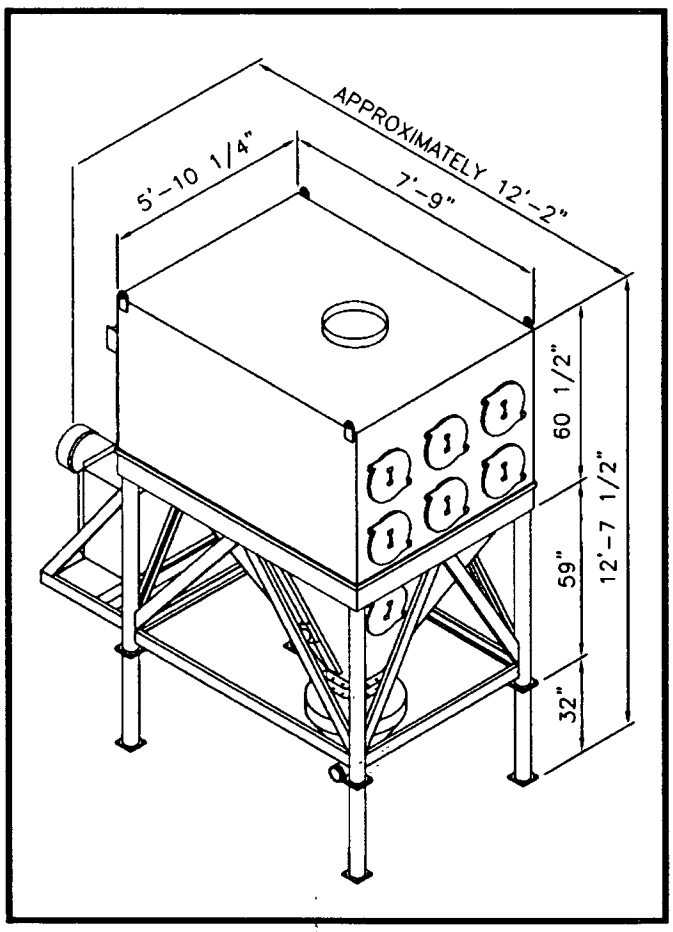
S.O.S. (Stephens. Ozone. Super-Flow)

Vents For Ready Mix Trucks



- Easy access for Cartridge Replacement; no tools required.
- Heavy Duty (High Frequency) Blower, 8" static pressure.
- Automatic cleaning when necessary. Magnehelic Gauge for inspecting conditions of cartridges.

- Control box is standard with each **Stephens Ozone Super-flow vent**. Panel is complete with magnetic starter, filter regulator and magnehelic gauge. (Disconnect Optional)
- Stationary Back in Hood Standard
- Duct Work Package Standard
- Aerodynamic design. The **Stephens Ozone Super-flow Vents** are designed to permit the free-fall of dislodged dust to the hopper and is designed to prevent direct impingment of dust particles on the media which minimizes abrasion and dust build-up.
- No Confined areas: The **Stephens Ozone Super-flow** is designed so the filter replacement is from the outside of the unit. Personnel do not have to enter the collector to change filter elements, no tools are required.



Available SOS Models

SOS 2700 ..... 8 Cartridges
15 HP Motor - 5600 CFM

SOS 3400 ..... 10 Cartridges
15 HP Motor - 6200 CFM

SOS 4000 ..... 12 Cartridges
20 HP Motor - 8000 CFM

SOS 6100 ..... 18 Cartridges
20 HP Motor - 8000 CFM

SOS 6800 ..... 20 Cartridges
25 HP Motor - 12,000 CFM

SOS 8000 ..... 24 Cartridges
30 HP Motor - 15,000 CFM

ELEVATED STRUCTURE & WORK PLATFORM

OPTIONAL EQUIPMENT:

- An elevated structure is available for truck clearance.
- Caged ladder and work platform with handrails and toeboard. (For standard and elevated vents.)
- Drive-through style hoods.
- Blower to transfer material from pod back in flyash silo.

MOBILE UNITS AVAILABLE

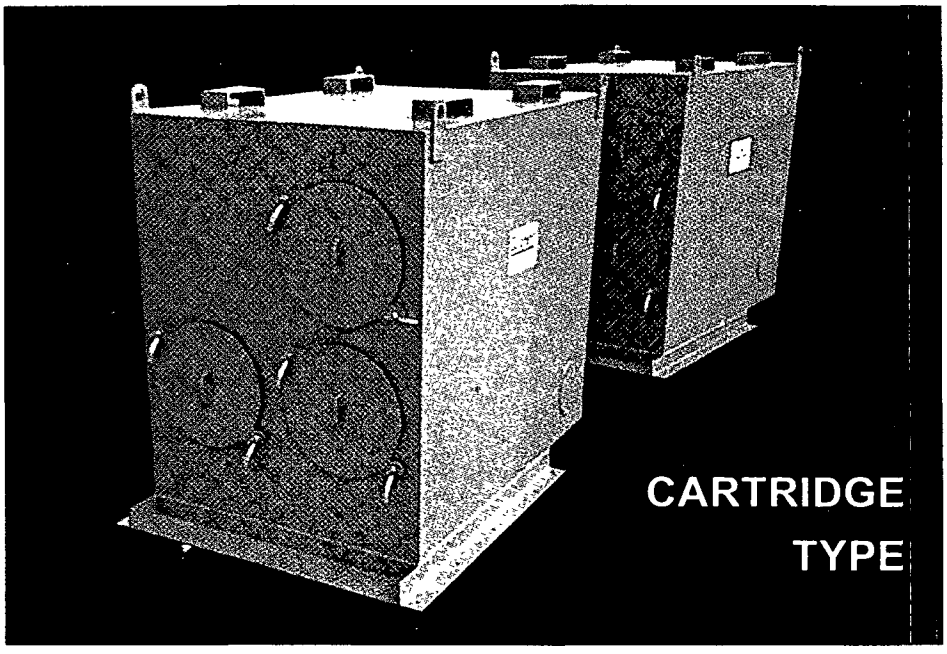
Complete with axle and electric break. Different type "Hook Ups" available. (fifth wheel, ball and pintle)

S.O.S. (Stephens. Ozone. Super-Flow)

Silo "Cartridge" Vent

FEATURES:

- Easy to replace cartridges, no tools required and no confined space. Cartridges replace from outside vent.
- Cartridges cleaned semi automatically by pulse reverse air for continuous cleaning.
- All parts and cartridges are kept in stock.

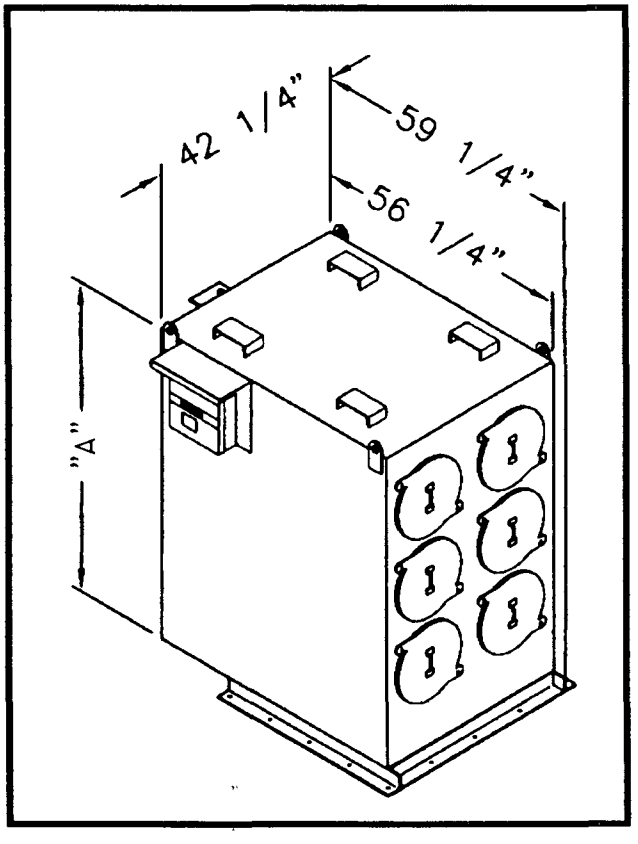


CARTRIDGE SPECIFICATIONS:

Fiber ..... 100% Polyester
Construction ..... Non-Woven, Pleated
Temp. Range ..... 200 Degrees
Recovery ..... 99.95% to 1 micron and above

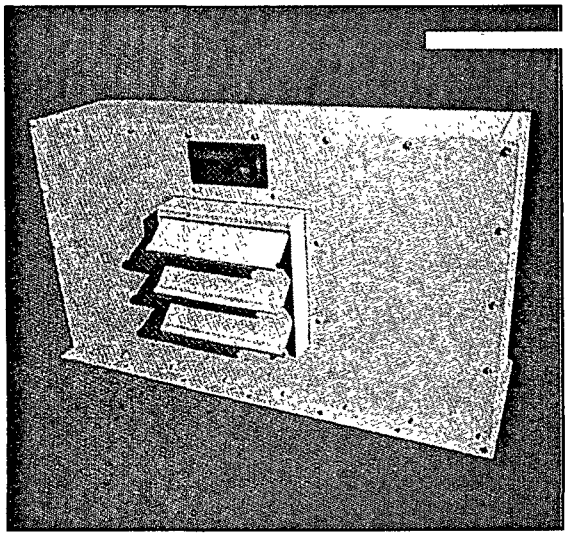
Model No.	No. of Cartridges	Cloth Area	Dim 'A'
SOS-680	2	300 Sq. Ft.	2'10"
SOS-1020	3	450 Sq. Ft.	4'4"
SOS-1360	4	600 Sq. Ft.	4'4"
*SOS-680 X 2	4	600 Sq. Ft.	4'4"
*SOS-1020 X 2	6	900 Sq. Ft.	5'0"

*For Two Compartment Silos



BATCHER VENTS

STEPHENS Weigh Batcher Filter Vents are an efficient means of collecting dust particles and preventing them from being discharged into the atmosphere during the batching process. Particles accumulated are recycled and discharged back into the weigh batcher.

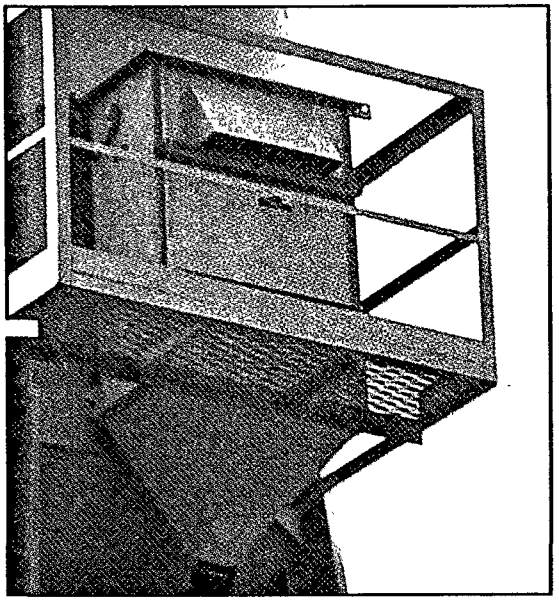


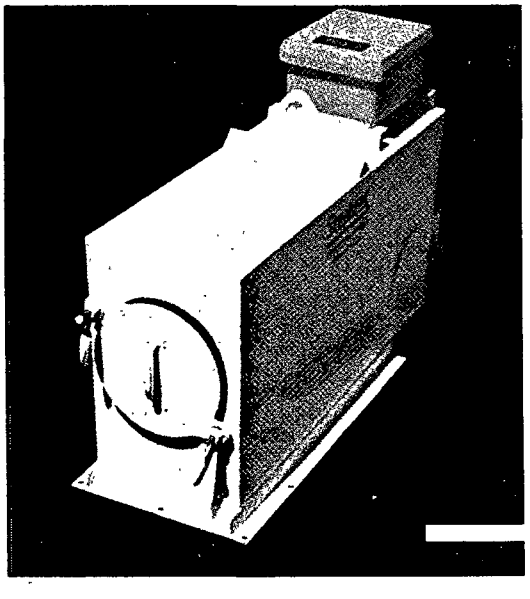
SV-20 BATCHER VENT mounts on top of Cement Batcher. The filtration process occurs when displaced air is forced through bags and clean air is pulled through the bags when the batcher discharges.

(Dimensions are: 22-3/4" H, 37" L, 9-1/2" W. The unit weighs approximately 115 lbs.)

VENT	HEIGHT	WIDTH	LENGTH
SV-45	79"	21"	39"
SV-65	79"	30"	39"

The **SV-45 and SV-65 Filter Vents** mount on the side of the silo with flexible 6" diameter hose connecting the vent to the Cement Batcher. The bags are cleaned by a 1/3 HP single phase motor that is activated when the batcher gate opens.



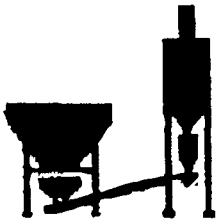


SOS-80 (Cartridge type) weigh batcher filter vent, vent mounted on top of Cement Batcher. Contains one replaceable cartridge that is cleaned by pulse air. No tools required to replace cartridge, cartridge replacement is quick and easy.

(Dimensions: 19-5/8" H x 36-1/2" L x 12-1/4" W).

Stephens
MFG. CO., INC.

P.O. BOX 488
TOMPKINSVILLE, KY 42167
1-800-626-0100
(270) 487-6274
FAX: (270) 487-8368
Email: smc@scrtc.com
www.stephensmfg.com



Dust Control

Stephens filter vents are manufactured with rigid control of quality and workmanship to provide the user a more effective dust filtration system. The following is supplied to the purchaser to aid in the permit application process. While every question on the application may not be answered, the information compiled should be complete and informative in helping to aid in completing your application. Please call Stephens Manufacturing Company if further assistance is required.

Filter Bag Specifications:

Bag Sizes:	
SV-20	4 ¼" X 16" BATTLER VENT
SV-45	7" X 36"
SV-85	7" X 36"
SV-170	7" X 72"
SV-265	7" X 72"
SV-380	7" X 72"
SV-1100	7" X 72"
SV-1430	7" X 9'9"
SV-1550	7" X 8'9"
SV-2000	7" X 9'9"

Criteria:	
Bag Style:	08-5021-78
Fiber:	Polyester Dacron Felt
Construction:	dual-density, single-singed
Weight:	9oz/square yd
Air Permeability:	30-40 CFM sq. ft.
Mullen Burst:	250 lbs.
Breaking Strength:	Fill: 175 lbs. Warp: 140 lbs.
Temperature Range:	220-270°
Recovery:	99.6% to one micron sizes
% Efficiency:	100% design: 99.6% actual
Life of Bags:	18 to 36 months (usage)

Square Footage of Cloth:
Particular vent nomenclature indicates the number of square feet of filtration cloth

- Example: SV-170= 170 sq. ft. of cloth
- Example: SV-1550= 1550 sq. ft. of cloth

Cloth Type: Single-singed, dual-density, felt/polyester @ 9 oz. per sq. yd.

Air-to-Cloth Ratio: 5.6:1 (8:1 at bags)

Silo Filter Vent operating Instructions: SV-170, SV-265, and SV-380
Shake bags only after complete unloading. Shake 5 to 6 minutes with standard 1/3-HP 110-volt motor and shaker assembly. (When equipped with blower, it is recommended that the blower be in operation during complete unloading. Do not shake bags until blower completely stops.)

Cement Batcher Vent operating Instruction: SV-45, SV-65
The cement batcher filter vents are designed to trap escaping dust from the cement batcher and the return it to the batcher when the batcher gate opens by a mechanical shaker assembly. The SV-45 and SV-65 are mounted on the side of the silo with a duct hose running from the vent to the top of the batcher.

Cement Batcher Vent Operating Instructions: SV-20
The SV-20 batcher vent mounts on top of cement batcher. The filtration process occurs when displaced air is forced through bags and clean air is pulled through bags when the batcher discharges.

Test on filter bags: Blane Air Turpedometer Test

Airborne Particulate:

- Maximum Potential Emissions—not sealed—(lb./hr): 2 grains ACFM per cubic yard-airborne particulate
- Maximum Actual Emissions with controlled devise applied (lb./hr): 0 grains ACFM per cubic yard-airborne particulate
- Potential airborne particulate: 2 grains per cubic yard

NOTE: Many state forms ask pounds per day or pounds per hour. Cubic yard must be converted to pounds;
(1 grain= 0.002854 oz)
Example; 200 cubic yards per day= 400 grains x 0
002854 oz. = 1.1416 oz. Per day potential airborne particulate

(1) Uncontrolled Particulate Emission for cement unloading to elevated storage silo. (pneumatic)
Assumption: Maximum of 50 tons of cement delivered in one hour.

- 0.27 x 50 = 13.5 lbs. per hour
- Factor per ton of cement based on two tests on pneumatic conveying.

(2) Controlled Particulate Emission for cement unloading to elevated storage silo with fabric socks over bin. (Pneumatic)

- 13.5 lbs. x 0.004= 0.054 lbs. per hour
- Based on fabric sock 99.6% efficient to one micron in size. All cement greater than one micron.

NOTE: Above data based on engineering judgement, observations and emission tests of similar controlled sources.

Effective Filtration: 99.6%-to-one micron size

Filtration System: Free flow air trap system at 200 CFM

Specific Gravity:

- Cement 3.15
- Flyash 2.4
- PH 10.5

Physical Characteristic by Size (% by count #325 Screen):

- 20-50 microns: 15%
- 50-100 microns: 84%
- over 100 microns: 1%

Filtration System: Free flow air trap system at 200 CFM

Particulate Disposal: All trapped particulate is recycled into system

Truck Dust Collectors Operation: SV-1100, SV-1550

SV-1100
The SV-1100 has a mechanical-type cleaning system. The vent is standard with 1,100-sq ft. of cloth. One 6,000-CFM ("High Frequency") Blower with a 15-HP motor, expanded metal work platform, ladder with safety cage and OSHA approved handrails. A work platform is also supplied inside the vent for easy bag maintenance and replacement. The vent is supported by USA Steel "I" Beams. The SV_1100 includes Stephen's stationary back-in hood with clear plastic shroud.

SV-1550
The SV-1550 is a continuous Reverse Air Truck/Mixer Dust Collector. The two-compartment vent has one 6,000-CFM ("High Frequency") Blower with a 15-HP motor. The vent is standard with expanded metal work platform, ladder with safety cage and OSHA approved handrails. The vent is supported by USA Steel "I" Beams.

Uncontrolled Particulate Emission Factors for Concrete Batching

Source	kg/mg of material concrete[a]	lb./ton of material	lb/yd-3 of	Emission Factor Rating
Sand and aggregate transfer to elevated bin[b]	0.014	0.029	0.05	E
Cement unloading to elevated storage silo				
• Pneumatic[c]	0.13	0.27	0.07	D
• Bucket elevator	0.12	0.24	0.06	E
Weigh hopper loading[d]	0.01	0.02	0.04	E
Truck loading(truck mix) or Mixer loading (central mix)[e]	0.01 0.02	0.02 0.04	0.04 0.07	E E
Vehicle traffic (unpaved road)[f]	4.5kg/VKT	16lb/VMT	0.2[g]	C
Wind erosion from sand and aggregate storage piles[h]	3.9kg/VMT	3.5lb/VMT	0.1[i]	D
Total process emissions (truck mix)[j]	0.05	0.10	0.20	E

NOTE: Figures and data supplied from Mineral Products Industry

[a] Based on a typical yd-3 weighing 1.818kg(4,000 lb.) and containing 227 kg (500lb) cement, 564 kg (1240 lb.) sand, 864 kg(1,900 lb.) coarse aggregate and 164 kg (360 lb.) water

[b] Reference 6

[c] For uncontrolled emissions measured before filter. Based on two tests on pneumatic conveying controlled by a fabric filter

[d] Reference 7. From test of mechanical unloading to hopper and subsequent transport of cement by enclosed bucket elevator to elevate bins with fabric socks over bin vent

[e] reference 5. Engineering judgement, based on observations and emission tests of similar controls sources

[f] From section-11.2.2, with a=12, k=8, p=100, s=20 and w=14. VKT=vehicle kilometers traveled

[g] Based on facility producing 23,100 m-3/yr (30,000 yd-3/yr) with average truckload of 6.2 m-3 (8yd-3) and plant road length of 161 meters (1/10 mile)

[h] From sections- 1, 8, and 19, for emissions less than 30pm for inactive storage piles

[i] Based on pneumatic conveying of cement at a truck mix facility. Does not include vehicle traffic or wind erosion from storage piles

Stephens Manufacturing has been supplying the concrete industry with quality filtration systems for more than twenty-five years. Whatever your particular need, Stephens has the experience to meet your environmental requirements. Stephens maintains a complete stock of related equipment and parts ready for next-day delivery. Stephens filter vents can meet all local, state and federal air pollution regulations. We also reserve the right to amend standard specifications without notice. Call 1-800-626-0200 for more information.

STEPHENS MFG. CO.
711 WEST FOURTH ST.
P.O. BOX 488
TOMPKINSVILLE, KY 42167
1-800-626-0200

REF: CARTRIDGE FILTER

PART NUMBER: 36-15150-3234

DIMENSIONS: 13.84" O.D. x 9.48" I.D. x 36" H

SPECIFICATIONS

STYLE: ECO 23W PLEATED MEDIA
FIBER: 100% POLYESTER
MEDIA EFFICIENCY: 99.995% AT 1 MICRON AND ABOVE
AIR PERMEABILITY: 28 CFM @ 1/2" DELTA P
THERMAL STABILITY: 2% MAXIMUM AT 250 °F
MOISTURE TOLERANT: CAN BE WASHED AND REUSED
MAX. OPERATING TEMP.: 275 °F (FABRIC) ELEMENTS
200 °F (HIGHER TEMP. RATING CONSTRUCTION AVAILABLE)

CHEMICAL RESISTANCE

ACIDS: FAIR
ALKALIS: GOOD
OXIDIZING AGENTS: GOOD
ORGANIC SOLVENTS: GOOD
HYDROLYSIS: FAIR
ABRASION: GOOD

FABRIC CHARACTERISTICS

USING 3 GRAINS PER CUBIC FOOT LOADING AT A RATIO OF 8.5:1 FOR 24 HOURS CONSTANT, THE MATERIAL AND FILTER MEDIA IS WEIGHED BEFORE AND AFTER THE TEST AND THE TEST RESULTS ARE AS FOLLOWS:

99.5 AT .2 TO 2.0 MICRON RANGE
99.995 AT 1 MICRON AND ABOVE

TDC Filter Manufacturing, Inc.

TDC PERFORMANCE SPECIFICATION

TDC CX MEDIA

ASHRAE 52.1 - 1992

TEST FLOW RATE	500 CFM
INITIAL RESISTANCE	.53"WG
INITIAL ATOMSPHERIC DUST SPOT EFFICIENCY	32.4%
AVERAGE ATMOSPHERIC DUST SPOT EFFICIENCY	94.0%
AVERAGE AC FINE DUST WEIGHT ARRESTANCE	100%

INITIAL DUST SPOT	32.4%
DUST SPOT @ 1" WG	90.0%
DUST SPOT @ 2" WG	97.0%
DUST SPOT @ 3" WG	98.5%

PARTICLE EFFICIENCY BY WEIGHT
TEST DUST - AC FINE

PARTICLE SIZE	EFFICIENCY
0.5	99.7%
1.0	99.8%
2.0	100%
5.0	100%
10.0	100%