Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

May 20, 2009

Mr. Dick Salonia, President
Concrete Structures, Incorporated
12100 Northwest 58th Street
Miami, Florida 33178

Dear Mr. Salonia:

This is to acknowledge that your notification of intent to use the authority of Rule 62-210.310 to operate your **Concrete Batching Plant** facility was received on April 16, 2009. We have assigned ARMS No. 0251312-001 to this facility.

As you know, pursuant to Florida Statutes section 403.814, authority to operate under general permits commences thirty (30) days after receipt of the registration form unless you have been notified by this office that your facility has not shown entitlement to operate pursuant to the rule provisions.

For your information, authority to operate pursuant to Rule 62-210.310 expires after five (5) years. Therefore, a new registration form must be received no later than five (5) years after the date your notice was received as indicated above. If your general permit rule conditions require testing, such testing must be completed within the time frame specified in the rule.

If you have any additional questions, please contact Dickson Dibble at 850/921-9586.

Sincerely,

Sandra F. Veazey

Sandra F. Veazey, Chief
Bureau of Air Monitoring
and Mobile Sources

SFV/pg

FDEP
3800 Commonwealth Blvd
MS-77 Tallahassee, Fl 32399

PO Box 3070
Tallahassee, Fl 32315-3070

CONCRETE BATCHING PLANT
AIR GENERAL PERMIT REGISTRATION FORM

RECEIVED
APR 21 2009
Bureau of Mobile Sources

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. *($100 as of the effective date of this form)*

0251312-001

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- [X] Construct and operate a proposed new facility.
- [ ] Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- [ ] Continue operating the facility after expiration of the current term of air general permit use.
- [ ] Continue operating the facility after a change of ownership.
- [ ] Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only

If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- [ ] All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): _____
- [X] No air operation permits currently exist for this facility.

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

Concrete Structures Inc

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)

Street Address: 12100 NW 53 ST.

City: Miami County: Miami-Dade Zip Code: 33178

Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility)

May 15, 2009

2009 APR 16 AM 9:43

Owner/Authorized Representative

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.) Print Name and Title: Dick Salonia AS PRESIDENT
Owner/Authorized Representative Mailing Address Organization/Firm: Concrete Structures Inc Street Address: 12100 NW 58ST City: Miami County: Miami-Dade Zip Code: 33178
Owner/Authorized Representative Telephone Numbers Telephone: 305 597 9393 Fax: 305 597-9987 Cell phone (optional):

Facility Contact (If different from Owner/Authorized Representative)

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.) Print Name and Title:
Facility Contact Mailing Address Organization/Firm: N/A Street Address: City: County: Zip Code:
Facility Contact Telephone Numbers Telephone: Fax: Cell phone (optional):

Owner/Authorized Representative Statement

This statement must be signed and dated by the person named above as owner or authorized representative

I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards 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 registration form.

Signature

4/14/05
Date

2009 APR 16 AM 9:12

Type of Facility

Check one:

☒ Stationary Facility ☐ Relocatable Facility

Type(s) of Reasonable Precautions Used to Prevent Unconfined Emissions

Check all precautions to be used for the management of roads, parking areas, stock piles and yards:

☐ Pave Roads	☐ Pave Parking Areas	☐ Pave Yards
☐ Maintain Roads/Parking/Yards	☒ Use Water Application	☒ Use Dust Suppressant
☐ Remove Particulate Matter	☐ Reduce Stock Pile Height	☐ Install Wind Breaks

Check all precautions to be used for the management of drop points to trucks:

☐ Spray Bar	☐ Chute	☒ Enclosure
	☐ Partial enclosure	

Description of Reasonable Precautions

Below, or as an attachment to this form, provide details of all types of reasonable precautions to be used to prevent unconfined emissions at the facility.

BATCH Plant is Equiped with a Weigh Batcher Filter and a Silo Filter. The ~~Concrete~~ Concrete Truck is loaded with a full enclosed (boot Type) chute.

THE

2008 APR 16 AM 9:43

DEP Form No. 62-210.920(2)(b) 9
Effective: January 10, 2007

Description of Facility

Below, or as an attachment to this form, provide a description of the concrete batching plant operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

THE BATCH PLANT IS POWERED ELECTRICALLY. IT IS A SMALL BATCH PLANT USED TO MIX CONCRETE FOR A SMALL CASTING OPERATION.

AGGREGATE PILES ARE KEPT LOW AND MOVED WITH A FRONT END LOADER.

Description of Facility

Below, or as an attachment to this form, provide a description of the concrete batching plant operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

THE BATCH PLANT IS POWERED ELECTRICALLY. IT IS A SMALL BATCH PLANT USED TO MIX CONCRETE FOR A SMALL CASTING OPERATION. AGGREGATE PILES ARE KEPT LOW AND MOVED WITH A FRONT END LOADER.

* SEE ATTACHED ADDENDUM FOR ADD'L SILO & BATCHER DUST FILTER DETAILS.

R. Dibble

* ADDENDUM TO APPLICATION

Dibble, Dickson

From: Professionalc3@aol.com
Sent: Friday, May 01, 2009 11:09 AM
To: Dibble, Dickson
Cc: Bowman, Sandy; Diconc@aol.com
Subject: Re: Concrete Structures Inc. Miami-Dade, Fl - Batch Plant

Mr. Dibble,

I am sorry to not respond quicker. I was out this week due to medical conditions. The information that you asked for is:

The silo filter vent model is SV 170 and the Weigh batcher filter vent is SV 20.

If you should need anything else do not hesitate to email or call.

Have great weekend.

Sincerely,

John Adams

Strategic Engineering & Construction inc.
14150 SW 129 St
Miami, Fl 33186

305-219-4716, 786-573-7319fx

In a message dated 4/22/2009 5:00:15 P.M. Eastern Daylight Time, Dickson.Dibble@dep.state.fl.us writes:

> Gentlemen,
>
> Thank you for your prompt reply to my request.
>
> Although not specifically stated in your e-mail, it appears that the Stephens Model SV-20 is the emission control device attached to the weigh batcher.
>
> The silo filter vent spec sheets describe several Stephens models. It is not clear to me which filter vent model applies to the silo at the subject item batching plant.
>
> Would you be so kind as to provide me with some clarification regarding the exact model application to the silo?

Silo

MFG. CO., INC.
O BOX 488
orkinsville, KY 42167
026-0200

Dust Control:

Stephens Filter vents are manufactured with rigid control of quality and workmanship to provide the user a most 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 nat 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-170	7" X 72"
SV-265	7" X 72"
SV-380	7" X 72"
SV-45	7" X36"
SV-65	7" X36"
SV-20	4 1/4" X 16"
SV-1100	7" X 72"
SV-1550	7" X 8'9"
SV-1430	7" X 8'9"
SV-2000	7" X 8'9"

Bag Style:	08-5021-78
Fiber:	Polyester Dacron, Felt
Construccion:	Duo Density, Single singed
Weight:	9 oz. /Square yard
Air Permeability:	30-40 CFM Sq. Ft.
Mullen Burst:	250 Lbs.
Breaking:	Fill: 175 Lbs.
Strength:	Warp: 140 Lbs.
Temperature Range:	220 degrees-270 degrees
Recovery:	99.6% to one micron size
% Efficiency:	Design 100% Actual 99.6%
Life of Bags:	18 to 36 months (usage)

Effective Filtration: 99.6% to one 1 Micron size

Physical Characteristics 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 1100 sq. ft. of cloth. One (1) 6,000 CFM ("High Frequency") Blower with a 15 Hp motor, expanded metal 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 Stephens stationary back in hood with clear plasticshroud.

SV1550

The SV-1550 is a continuous Reverse air Truck/Mixer Dust Collector. The two compartment vent has one 6,000CFM ("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.

Square footage of cloth:

- Particular vent momenclature indicate the number of square feet of filtration cloth
  (example: SV-170 = 170 sq ft. of cloth)
  (example: SV-1550 = 1550sq ft. of cloth)

r to cloth ratio: 5.6 to 1 (8 to 1 at bags)

Silo Filter Vent operating instructions: (SV-170, SV-265, SV 380)

Shake bags only after complete unloading. Shake for 5 to 6 minutes with standard 1/3 HP 110 volt motor and shaker assembly. (Note: When equipped with blower, it is recommended that the blower be in operation during complete unloading. Do not shake bag until blower completely stopd.)

Cement Batcher Vent operating instructions: (SV-45, SV-65)

The cement batcher filter vents are designed to trap escaping dust from the cement batcher and then 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 the 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.

Test on filter bags: Blane air turpedometer test

Maximum potential emissions with controlled devise applied (lbs./hr)
0 grains ACFM per cubic yard-airborne particulate

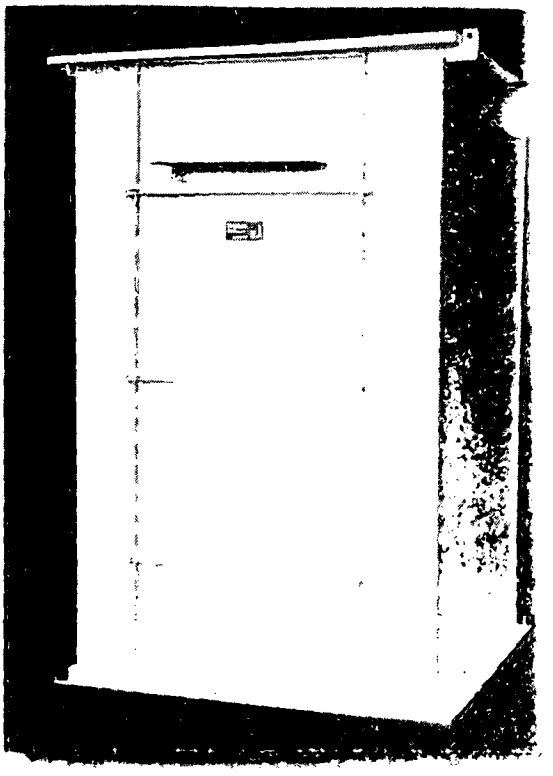
Potential airborne particulate: 2 grains per cubic yard

(Note: Many forms ask pounds per day/pounds per hour)
Cubic yards must be converted to pounds. (1 grain = 0.002854 oz.)

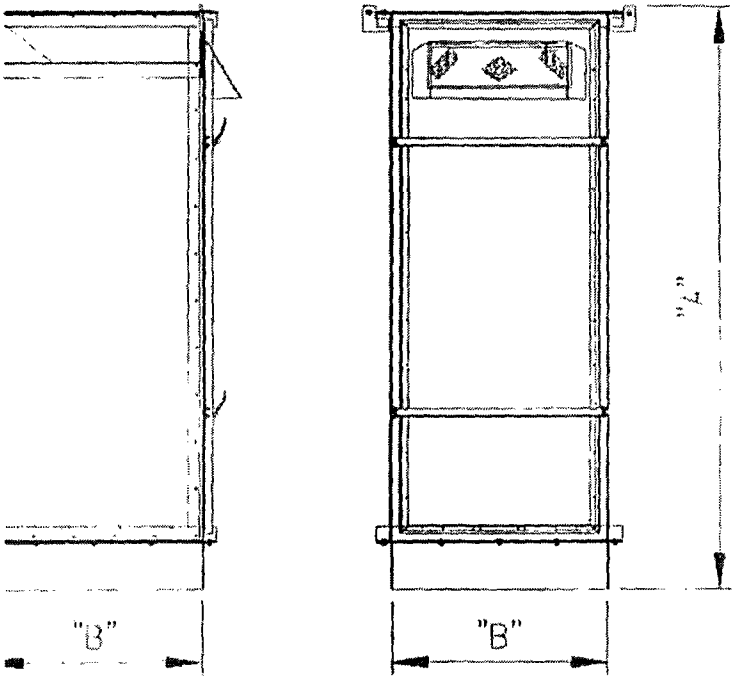
Example: 200 cubic yards per day = 400 grains x 0.002854 oz. = 1.1416 oz. per day potential airborne particulate

Silo Filter Vents

Stephens Filter Vents provide highly effective dust control for cement, flyash, and other granular materials.
DUO-DENSITY FILTER BAGS of Ployester/ dracon Fibers trap 99.6%" of moving dust particles, allowing the release of clean air into the atmosphere. Valuable materials are then cycled for reuse.
Vent Housing is of a high quality steel and the full length access door allows for easy maintanance and service of bags.
BLOWERS are available for all units.
Call 1-800-o26-0200 for complete information.



Silo Vents



FILTER BAGS SPECIFICATION:

Fiber:	Polyester/Dacron
Construccion:	Felt, Duo-Density
Air Permeability:	30-40 CFM Sq. Ft.
Mullen Burst:	250 Lbs.
Breaking:	Fill: 175 Lbs.
Strength:	Warp: 140 Lbs.
Temperature Range:	220-240-F.
*Recovery:	99.6% to one Micron size

Model No.	No. of Bags	Bag size	Cloth area	Approx. Wt.	Dim. 'A'
SV-170	16	7" DIA. X 72"	170 SQ. FT.	750 Lbs.	36"
SV-265	25	7" DIA. X 72"	265 SQ. FT.	875 Lbs.	44"
SV-380	36	7" DIA. X 72"	380 SQ. FT.	1000 Lbs	54"

Stephens Filter Vents can meet all local, State, and federal air pollution regulation

Operating Instructions

Bags are shaken only only after complete unloading for 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, then blower to be turned off and bags cleaned by shaking.

d & 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 (d)	0.12	0.24	0.06	E
Weigh hopper				
Truck loading (truck mix) (e)	0.02	0.04	0.07	E
Vehicle traffic (unpaved road) (f)	4.5 kg/vkt	16 lb/vmt	0.2(g)	C
Wind erosion from sand and aggregate age piles (h)	3.9 kg/	3.5 lb/	0.1(i)	D
Total process emissions				

(a) Based on a typical yd3 weighing 1.818 kg (4,000 lb) and containing 227 kg (500 lb) cement 564 kg (1,240 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 pnematic 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 elevated bins with fabric socks over bin vent.

Note: Figures and data from Mineral Products Industry.

(e) Reference 5. Engineering judgement, based on observations and emission test of similar controlled sources.

(f) From Section 11.2.1, with k=8, a=12, s=20, w=20, w=14, and p=100.
VKT=vehical kilometers traveled. VMT=vehical miles traveled.

(g) Based on facility producing 23, 100m3/yr (30,000 yd3/yr) , with average truck load of 6.2m3 (8 yd3) and plant road length of 161 meters (1/10 miles).

(h) From Section 8, 19, 1, for emissions <30 um for inactive storage piles.

(i) Assumes 1,011 m2 (1/4 acres) of sand and aggregate storage at plant with production of 23,000 m3/yr (30,000 yd3/yr).

(j) Based on pneumatic conveying of cement at a truck mix facility, does not include vehicle traffic or wind erosion from storage piles.

Note: Figures and data from Mineral Products Industry.

(1) Uncontrolled Particulate Emission for cement unloading to elevated storage silo. (Pneumatic)

Assumption:
*Maximum of 50 Tons cement delivered in one hour.

.27 x 50 = 13.5# 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# x .004 = .054# per hour

Based on fabric sock 99.6% efficient to one micron in size. All cement particles greater than one micron.

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

Maxium Actual emissions with control device applied (lbs/hr) 0 grains ACFM per cubic yard- airborne particulate.

Potential airborne particulate: 2 grains per cubic yard.

Note: many forms ask pounds per day/ pounds per hour. Cubic yards must be converted to pounds. (1 Grain = 0.002854 oz) Example 200 cubic yards per day = 400 grains x 0.002854 = 1.1416 ozs per day potential airborne particulate.

Parts Manager
Ronnie Page
(800) 626 0200

Darrick Proffitt
VP Marketing & Sales

Greg High
Director of Sales

P. O. BOX 488,
1 West 4th street
TOMPKINSVILLE , KY 42167
PHONE: 800-626-0200
OUTSIDE the USA 270-487-6774
FAX: 270-487-8368

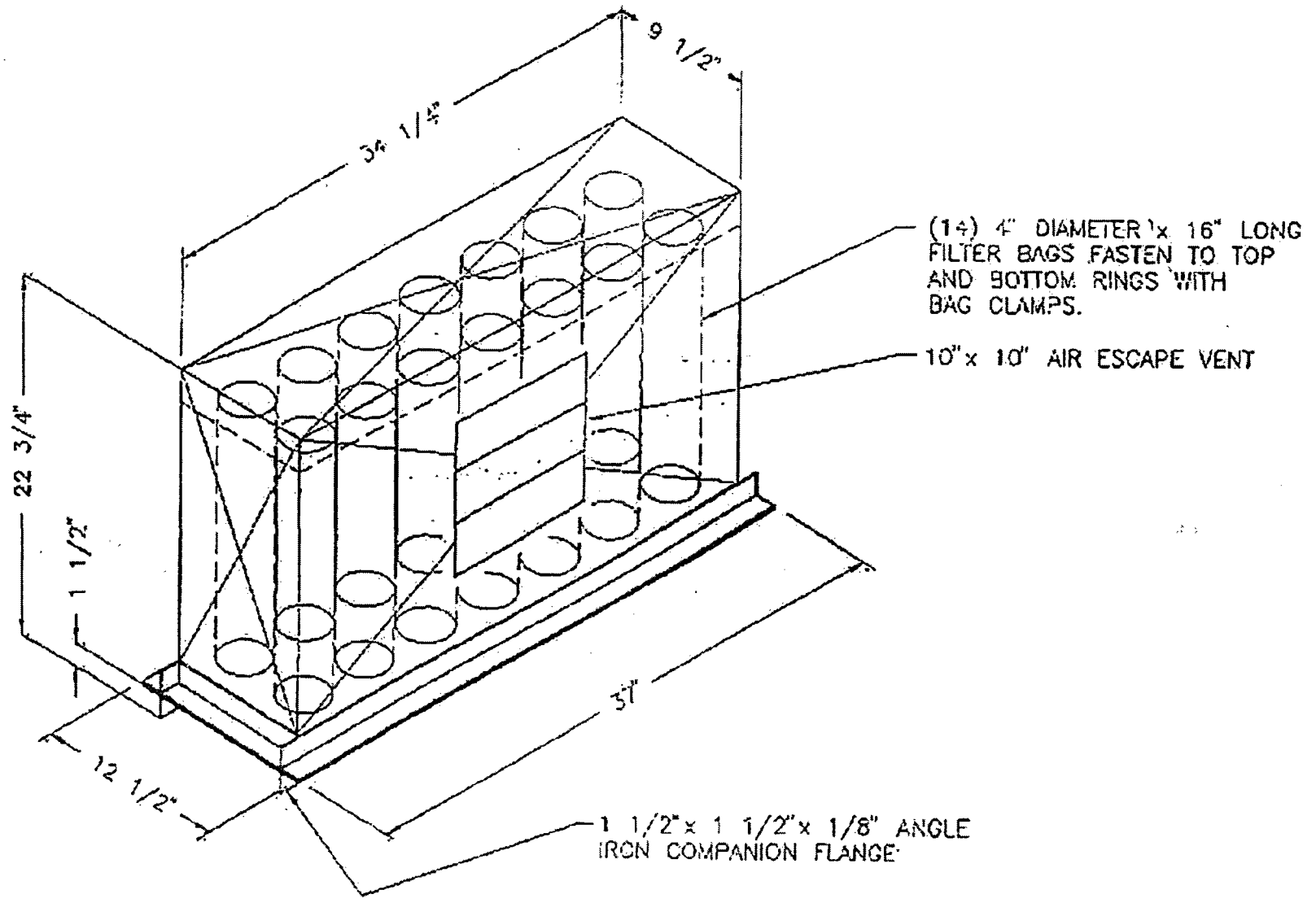
Stephens Filters vents are manufactured with rigid control of quality and workmanship to provide the user a most effective dust filtration system. The following is supplied to the purchaser to aid in the permit application process. While evry question on the application may not be answered, the information 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 Bags Specifications:

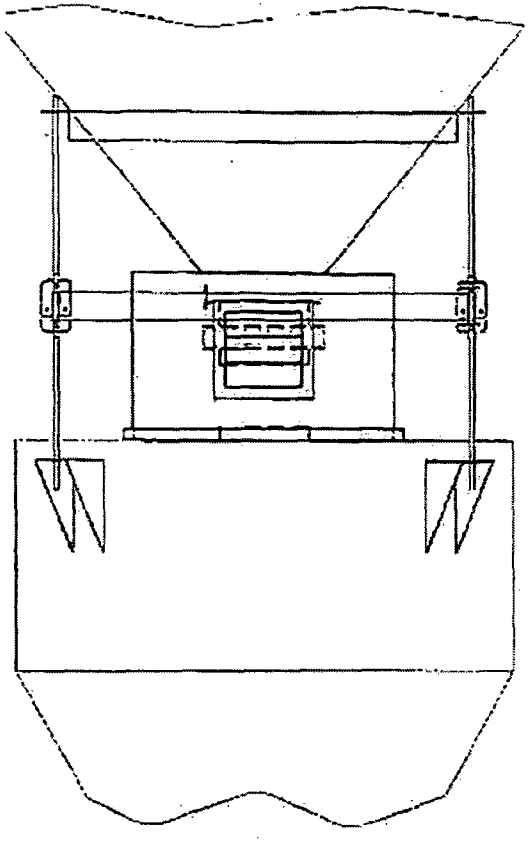
Bag sizes

SV-120	7" X 72"
SV-240	7" X 72"
SV-360	7" X 72"
SV-18	7" X 36"
SV-36	7" X 36"
SV-24	4 1/4" X 16"
SV-480	7" X 72"
SV-1000	7" X 8' 9"
SV-1320	7" X 9' 9"
SV-2000	7" X 9' 9"

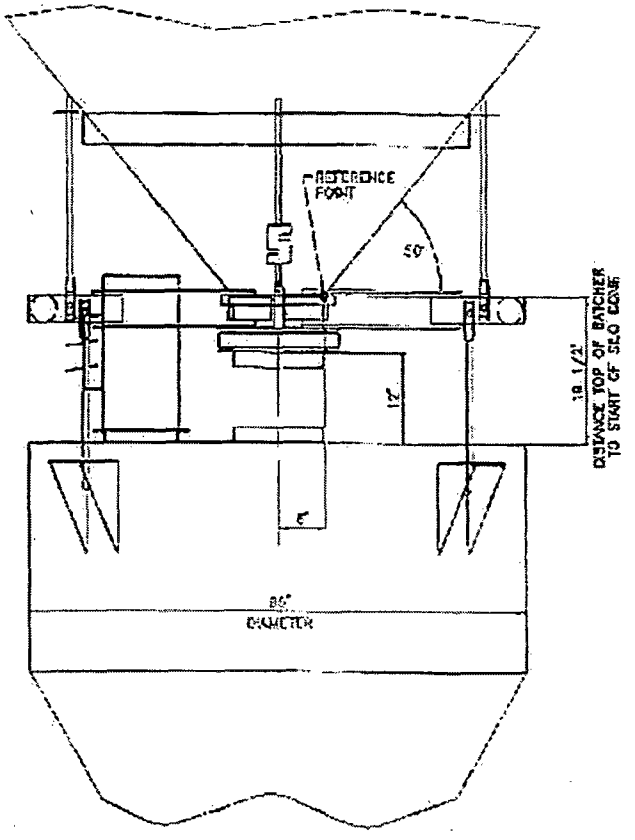
Bag Style	08-5021-78
Fiber	Polyester Dacron Belt
Construction	Duo Density
Weight	9 oz /Square yard
Air Permeability	30-40 CFM Sq Ft
Mullen Burst	250 Lbs
Breaking Strength	Fill 172 Lbs Warp 140 Lbs
Temperature Range	220 degrees-270 degrees
Recovery	99.6% to one micron size
% Efficiency	design 100% Actual 99.6%
Life of Bags	18 to 36 months (usage)



MODEL SV-20 WEIGH BATCHER FILTER VENT

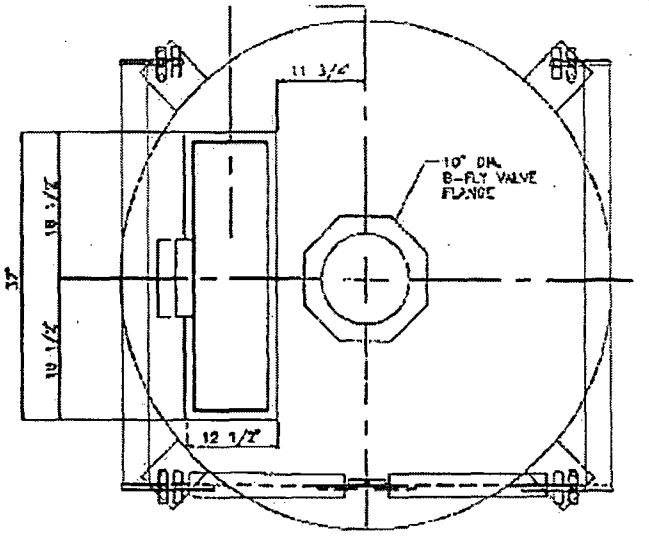


FRONT VIEW

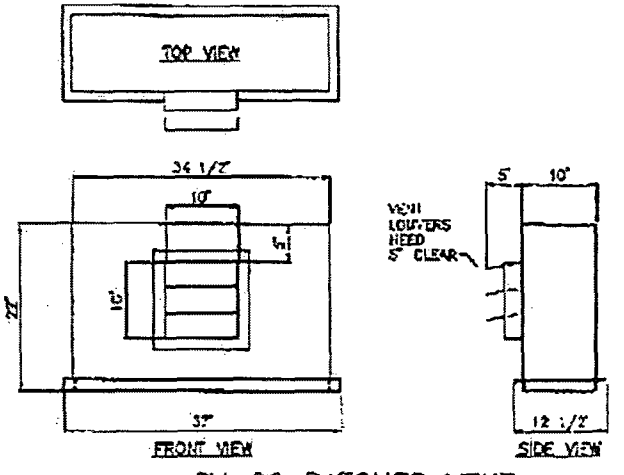


SIDE VIEW

SV-20 BATCHER VENT "STALLION" PLANT



TOP VIEW CEMENT BATCHER



SV-20 BATCHER VENT

NOTES:	THE RECIPIENT OF THIS DRAWING ASSENTS THAT IT CONTAINS ARE CONFIDENTIAL AND MUST NOT BE USED, COPIED OR SUBMITTED TO OUTSIDE PARTIES FOR USE OR DIVULGATION WITHOUT CONSENT.	DWN. BY: JACK DATE: 1-15-02 SCALE: 3/4"=1'-0"	Stephens TOMPKINSVILLE, KY. 42167	JOB: IN-HOUSE ENGINEERING TITLE: SV-20 BATCHER VENT WITH "STALLION" PLANT	JOB NO. DRAWING NO. ST-SV20

Thank you for your assistance and have a great day!

Sincerely,

Dickson E. Dibble

Dickson E. Dibble, ES III
FL Dept of Environmental Protection
Div. of Air Resource Management
Bureau of Air Monitoring & Mobile Sources
Air General Permit Program
Tel. (850) 921-9586
FAX (850) 922-6979
ICG-#345

Dickson.Dibble@dep.state.fl.us

From: Professionalc3@aol.com [mailto:Professionalc3@aol.com]
Sent: Wednesday, April 22, 2009 2:22 PM
To: Dibble, Dickson
Cc: Diconc@aol.com
Subject: Concrete Structures Inc. Miami-Dade, Fl - Batch Plant

Per your request, attached are the specifications for the Batch Plant filter systems (silo filter vent and

weigh batch filter) for the above referenced project.

If you need anything else do not hesitate to call or email.

Sincerely,

John Adams
Strategic Engineering & Construction inc.
14150 SW 129 St
Miami, Fl 33186

305-219-4716, 786-573-7319fx

Wise, Jane

From: Wise, Jane
Sent: Wednesday, April 22, 2009 4:49 PM
To: 'muthim@miamidade.gov'; 'GordoR@miamidade.gov'; 'garcima@miamidade.gov'
Cc: Veazey, Sandra; Bowman, Sandy
Subject: Recently Received AG Registrations
Attachments: 0251312-001.pdf

The attached documents represent recently received air general permit registration forms for your area. As requested, each form has been scanned and attached for your office use. These registrations are currently in the 30-day review cycle. We request that any updates to EU information be made *after* the 30-day review cycle ends. The actual receipt date and other facility information may be obtained in GPCI.

The complete scanned file for each facility will be available in ADH Search after the 30-day review cycle.

If you have any questions or comments, please contact Dick Dibble at 850/921-9586 or by e-mail at dickson.dibble@dep.state.fl.us or Sandy Bowman at 850/921-9583 or by e-mail at sandy.bowman@dep.state.fl.us

R-4122
O-4922

Cashlisting: 75361 Cashlist Area: 3755 Description: DIV OF AIR RESOURCES MGMT.
Deposit No: 291478 Date Deposited: 04/17/2009 Contact: E. WALKER

Object	Transmittal	Dep DDN	Receipt Number	Pre-Numbered Receipt	Name	Check Number	Payment Amount	Reference Account	Payment Number	Remittance Number	Fund	Grant
002272	54140		664308		CONCRETE STRUCTURES	12587	$100.00	025312-001 4/22/2009-CCB	939873	825822	PFTF	
					Object Code 002272 Subtotal:		$100.00					
002278	54135	495714	664262		BLUE SKY	1327	$100.00	53272	939957	825776	APCTF	
					Object Code 002278 Subtotal:		$100.00					
002303	54135	495720	664268		SARASOTA COUNTY, BOCC	00965045	$100.00		939962	825782	PFTF	
					Object Code 002303 Subtotal:		$100.00					
002304	54135	495720	664268		SARASOTA COUNTY, BOCC	00965045	$250.00		939963	825782	PFTF	
					Object Code 002304 Subtotal:		$250.00					
					Cashlisting 75361 Total:		$550.00					

CONCRETE STRUCTURES, INC. / GENERAL ACCOUNT 12587

DEPARTMENT OF ENVIRONMENTAL PROTECTION	4/14/2009	
751 · LICENSES & FEES		100.00
CASH-OPERATING N		100.00