

**AIR GENERAL PERMIT APPLICATION  
FRONTIER READY MIX, Inc.**

*Prepared for:*  
**FRONTIER READY MIX, Inc.**

*Prepared by:*  
**ECT**  
**Environmental Consulting & Technology, Inc.**  
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130583-0100-1200  
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**CONCRETE BATCHING PLANTS  
AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET**

Facility Identification Number - If known (seven digit number)

115178-001-A6

~~FLR090639~~

**Registration Type**

Check one:

**INITIAL REGISTRATION - Notification of intent to:**

- Construct and operate a proposed new facility.
- Operate an existing permitted 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). 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. (See "Surrender of Existing Air Operation Permit(s)" below.)
- Operates an existing facility not currently permitted or using 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.
- 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 Applicable**

All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):

N/A

**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.)

Frontier Ready Mix Incorporated

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

N/A

**Facility Location** (Physical location of the facility, not necessarily the mailing address.)

Street Address: 8311 63rd WAY N STE B

City: Phoenician Park

County: Phoenician

Zip Code: 33781

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

N/A

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**Facility Contact**

**Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)**

Print Name and Title: Edwin Shearer, President/Owner

**Facility Contact Telephone Numbers**

Telephone: (727) 544-1000

Fax: (727) 548-7989

Cell phone: (727) 639-4084

E-mail: www.frontierreadymix.com

**Facility Contact Mailing Address**

Organization/Firm: Frontier Ready Mix

Mailing Address: 8311 63rd WAY N STE B

City: Pineles Park

County: Pineles

Zip Code: 33781

**Correspondence Contact/Representative (to serve as additional Department contact)**

**Name and Position Title**

Print Name and Title: See above

**Correspondence Contact/Representative Telephone Numbers**

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Cell phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Correspondence Contact/Representative Mailing Address**

Organization/Firm: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_

County: \_\_\_\_\_

Zip Code: \_\_\_\_\_

**Government Facility Code (check only one)**

- Facility not owned or operated by a federal, state, or local government.
- Facility owned or operated by the federal government.
- Facility owned or operated by the state.
- Facility owned or operated by the county.
- Facility owned or operated by the municipality.
- Facility owned or operated by a water management district.

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**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**

**Equipment Details** Provide information for each silo, weigh hopper (batcher), and other enclosed storage and conveying equipment that are limited to a visible emissions of 5 percent opacity pursuant to Rule 62-296.414(1), F.A.C.

PROCESS EQUIPMENT TYPE (silo, weigh hopper, batcher, etc.)	PROCESS EQUIPMENT IDENTIFICATION*	CONTROL DEVICE (baghouse, vent filter, etc.)	CONTROL DEVICE MANUFACTURER	CONTROL DEVICE MODEL NUMBER
Belgrade Silo	N/A	Baghouse	Belgrade	150

\* If there are multiple pieces of the same types of process equipment (more than one silo, etc), provide an identifier (location, numeric designation, capacity or product) specific to each piece of equipment.

**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 type of concrete product(s) manufactured, all air pollutant-emitting processes, and identify any air pollution control measures used. Mobile source equipment information is not needed (eg.: trucks, bulldozers, front-end loaders, etc.)

**Please see Attachment A**

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**Helpful Definitions.**

**"Emissions Unit"** - Any part or activity of a facility that emits or has the potential to emit any air pollutant.

**"Facility"** - All of the emissions units which are located on one or more contiguous or adjacent properties, and which are under the control of the same person (or persons under common control).

**"Owner" or "Operator"** - Any person or entity who or which owns, leases, operates, controls or supervises an emissions unit or facility.

**"Relocatable Facility"** - A facility such as, but not limited to, an asphalt plant, portable power generator, or concrete batch plant, which is designed to be physically moved to, and operated on, different sites by being wholly or partially dismantled and re-erected in essentially the same configuration. It shall not be operable while in transit.

**"Unconfined Emissions"** - Emissions which escape and become airborne from unenclosed operations or which are emitted into the atmosphere without being conducted through a stack.

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**ATTACHMENT A**  
**FRONTIER READY MIX PROCESS DESCRIPTION**

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The Frontier Ready Mix facility located at 8311 63rd. Way N., Suite B, Pinellas Park, Florida 33781 operates as the administrative headquarters of Frontier Ready Mix and the storage facility. The facility stores cement, rock, and sand.

The cement is stored in a 270-Barrel Portable Silo equipped with a "bell" style dust house. The square footage of the bag area is 150 square feet with a cement capture rate of 375 CFM. The bag house is equipped with 18 individual bags. The silo has a capacity of 50.76 tons and is filled on average 3 times per month.

The cement is delivered via tanker truck equipped with an air compressor that blows the material into the silo. The recommended filling pressure is 8 to 10 psi. Frontier requires the filling pressure to be 6 psi or less. This increases the length of time to fill the silo to 45 minutes or more but the lower fill pressure reduces generation of dust and ensures optimum baghouse efficiency.

### **Bag House Maintenance**

The manufacturers' maintenance manual (attached), specifies that the electric powered vibration system on the bag house be initiated for five to 10 minutes at the completion of each load-in activity. Frontier operates the vibration clean out for 20 minutes approximately one hour prior to and immediately following each load-in. This extra activity ensures proper operation of the bag house and reduces the potential for anomalies. This preventative maintenance activity includes inspecting all of the various components of the bag house and individually shaking each of the bags. This activity ensures that the bags are functioning properly and are free of any buildup that may prevent optimum operation. The monthly preventative maintenance efforts are logged on an inspection sheet where the time and date of the activity and recorded. In the event that any of the bags are damaged they are replaced immediately. To ensure the continuity of operations, Frontier stocks a full set of replacement bags, a spare motor for the augers and a spare trimmie.

### **Raw Material Storage**

The facility has two concrete bins for rock and sand storage. The bays are 24 feet by 32 feet each and are constructed of concrete block walls on three sides with a concrete slab. The bays are additionally protected by another, higher, concrete wall that surrounds the property of the south and east boundaries. The western and northern boundaries of the property are equipped with a tightly woven mesh privacy fence. Control measures for the sand and rock storage include fill limits and a suppression system (rock only). The bins are consistently only filled to  $\frac{1}{2}$  to  $\frac{3}{4}$  of the capacity to prevent wind and rain erosion. The rock is additionally protected with a sprinkler system to prevent wind erosion. The automatic sprinkler system is scheduled to operate every three hours for 15 minutes. In the event of a sprinkler failure, Frontier keeps a redundant stock of sprinkler heads, pipe, and associated couplings.



**ATTACHMENT B  
FRONTIER READY MIX  
OPERATION AND MAINTENANCE PLAN**

**FRONTIER OPERATION AND MAINTENANCE PLAN FOR BELGRADE  
PORTABLE CEMENT SILO BELLE 150 DUST HOUSE**

The Belgrade portable silo is operated within the parameters set forth by the Belgrade Steel Tank Company with the exception of a reduced fill pressure and the inclusion of additional maintenance.

**A. Process Parameters:**

1. Source ARMS number: N/A
2. Manufacturer: Belgrade Steel Tank Company
3. Model name and number: Belle 150
4. Type: Baghouse
  - a. S. Air to cloth ratio: 2.5
5. Bag Weave: Spun/Spun, 100W\*60F
6. Bag material: PE 37 100 percent Polyester 9oz. /Sq. Yd.
7. Design flow rate: 375 acfm
8. Efficiency rating at design capacity: 0.01 grain/scf
9. Acceptable pressure drop: 5 inches
10. Acceptable silo/baghouse pneumatic loading pressure: rated at 8 to 10 psi, actual at 6 psi.

**B. Observations and Maintenance**

**Baghouse in-use-Not Documented**

1. Bag pressure drop: 5-inches or less
2. Gas flow rate: gauge reading
3. Gas temperature, inlet and outlet: ambient
4. Bag cleaning conditions
  - a. Pulse: Air Vibrator Shaker
5. Bag cleaning cycle:

Shake: Frontier operates the vibration clean out for 20 minutes approximately one hour prior to and immediately following each load-in.

Reverse: N/A
6. Observed silo/baghouse pneumatic loading pressure: 6 psi

**Weekly- Not Documented**

1. Check cleaning mechanism moving parts: Visual
2. Inspect fans for corrosion and material build-up: Visual
3. Check all drive belts and chains for wear and tension: Visual
4. Check all hoses and clamps: Visual
5. Check accuracy of all indicating equipment: Visual
6. Inspect housing for corrosion: Visual

**Monthly- Documented**

1. Inspect baffle plate for wear
2. Thoroughly inspect bags: Bags are inspected for damage individually/manually shaken to remove buildup
3. Check duct for dust build-up
4. Observe damper valves for proper seating
5. Check gaskets on all doors

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**FRONTIER OPERATION AND MAINTENANCE PLAN FOR BELGRADE  
PORTABLE CEMENT SILO BELLE 150 DUST HOUSE**

6. Inspect paint
7. Check screw conveyor flighting: N/A

**C. Spare Parts List**

1. One full set of replacement bags (18)
2. One 30 oz. of oil for the automatic oiler on the vibrator
3. One spare auger motor
4. One spare trimmie

**ATTACHMENT C**  
**THE FRONTIER READY MIX**  
**MONTHLY BAGHOUSE**

**Frontier Ready Mix - MONTHLY BAGHOUSE INSPECTION**

**Date of Inspection:**

**Name of Inspector:**

Area of Inspection	Condition		Comments
	Good	Poor	
Baffle Plate Condition			
Bag Inspection Manually Shaken Y: N:			
Duct Buildup Y: N:			
Damper Valves Seated Properly Y: N:			
Door Gasket Condition			
Paint Condition			

**ATTACHMENT D**  
**THE BELGRADE PORTABLE CEMENT**  
**SILO OWNER'S MANUAL**



**BELGRADE  
STEEL TANK**

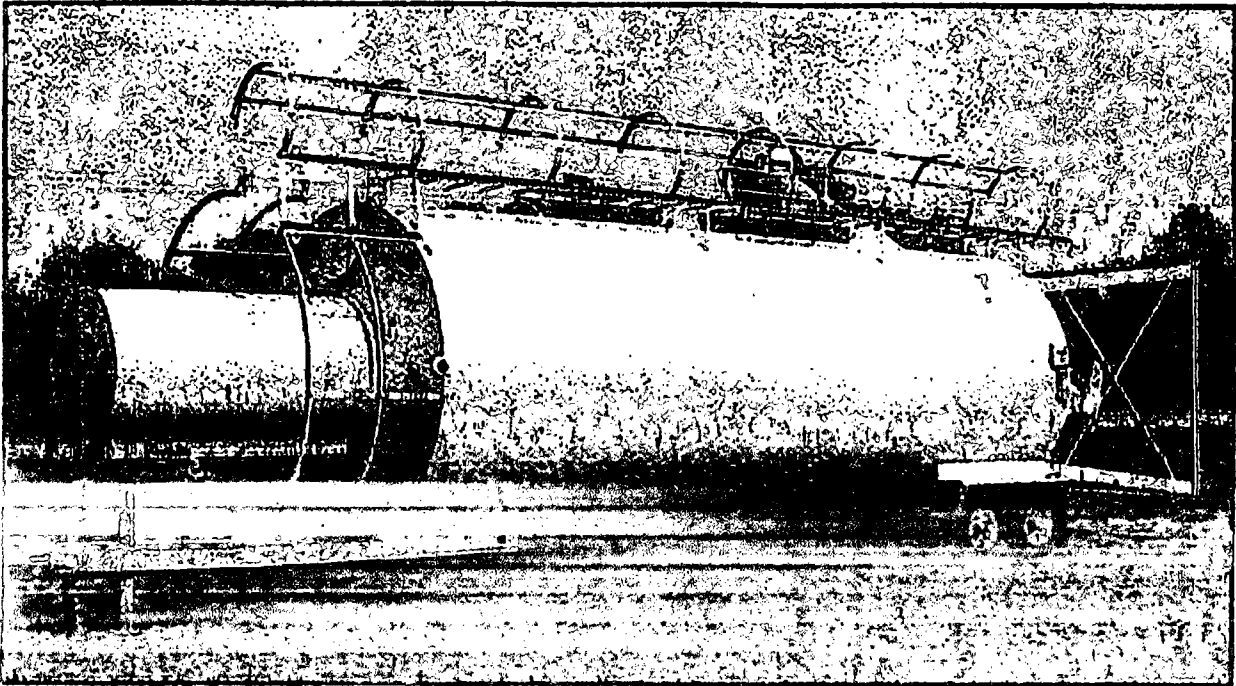
408 Lowery Ave. • Box 220  
Belgrade, Minnesota 56312

Phone: (320) 254-6246 • FAX: (320) 254-3458



# OWNER'S MANUAL

## Belgrade Portable Cement Silo



### 350 Barrel Portable Silo

- 8'6" Dia. x 37' Height
- Positive Feed Drive
- 9" Dia. Screw x 17'
- 10 HP Motor And Gear Box Drive
- Heavy Duty Dual Axle Trailer and Tires
- Electric Brakes and Light Package
- 150 Sq. Ft. Bag Area Dust House with Air Vibrator
- Trailer Jack
- Wt. 10,000#

### 270 Barrel Portable Silo

- 8'6" Dia. x 31'-0" Height
- Positive Feed Drive
- 7" Dia. Screw x 17'
- 5 HP Motor And Gear Box Drive
- Heavy Duty Dual Axle Trailer and Tires
- Electric Brakes and Light Package
- 150 Sq. Ft. Bag Area Dust House with Air Vibrator
- Trailer Jack
- Wt. 8,500#

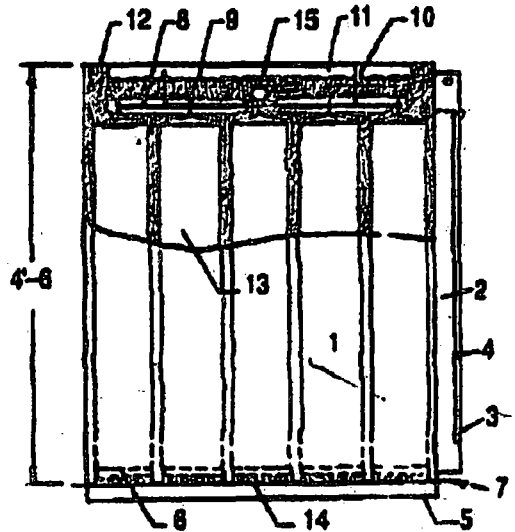
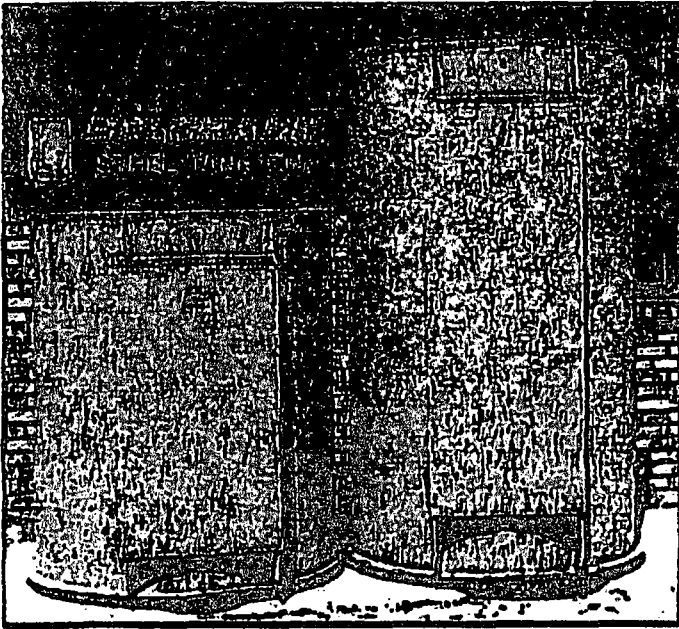
**Options:** Available with 225 Sq. Ft. Dust House  
Bin Level Indicators  
Leg Extension Package  
9" & 12" Screw Available for 270 & 350 BBL Silos  
Gas Motor Available on 7" Screw Auger Only  
Single Phase Motor

**BELGRADE  
STEEL TANK**



405 Lowery Ave. • Box 220  
Belgrade, Minnesota 58312  
Phone: (320) 254-8248 • FAX: (320) 254-3468

## "Belle" Style Dust House



**SQUARE FT.  
BAG AREA**

**CAP. CEMENT**

150  
225

375 C.F.M.  
675 C.F.M.

Parts List	160 Sq. Ft.	225 Sq. Ft.
1. Housing	4'8" x 10' x 14 Ga.	6'8" x 10' x 14 Ga.
2. Door Frame	4'4" x 4 1/2" x 12 Ga.	6'4" x 4 1/2" x 12 Ga.
3. Door Frame Screw (2)	2 1/4" x 4 3/4" x 12 Ga.	same
4. Door	42" x 24" x 14 Ga.	60" x 24" x 14 Ga.
5. Mating Flange	2" x 2" x 3/16 Anglo 44" Diameter	same
6. Sock Holders	8" Diameter - 18 Pcs.	same
7. Base	48" Dia. x 10 Ga.	same
8. Shaker Plate	36" Dia. x 12 Ga.	same
9. Open Eye Bolt	1/4" x 3" - 18 Pcs.	same
10. Suspension Bolts (4)	3/8" x 5" Hex	same
11. Suspension Bar Ass'm	Angle Iron Support	same
12. Cover	47" Dia. x 14 Ga.	same
13. Polyester Socks	(16) 4' x 8" Dia.	(18) 6' x 6" Dia.
14. Band Clamps	18 Required	same
15. Vibrator	VS 190	same
Opt: Single Phase Electric Vibrator		

"Belle" Filter Sock Specifications	
Style	PE 37
Fiber	100% Polyester
Weight	9 oz./Sq. Yd.
Construction	Spun/Spun
Count	100W x 80F
Air Permeability	20-30 C.F.M.
Multi Burst	500 PSI
Tensile Strength	Warp Direction 3000# FI Direction 2750#
Thermal Stability	2% Max. 300 Degrees F
Max Operating Temp	275 Degrees F
Efficiency	98.59%

Air Consumption - 8 CFM  
@ 90 psi

The dust house is equipped with either an air powered or electric powered vibrator used for the cleaning of the bags. If air powered, connect air supply line to the port located on center above the door, and supply the vibrator with 80 psi oiled or non-oiled air. If electric powered, reconnect power cord which exits the top side of dust house to the control box supplied. Operate vibration for approx. 5-10 minutes after each load of material has been blown in.



### FABRIC FILTERS

<b>Point Number (from flow diagram)</b>	<b>Manufacturer &amp; Model No. (if available)</b> Belgrade Steel Tank Co. - Belle 150
<b>Name of Abatement Device</b> Belle 150 Dust House	<b>Type of Particulate Controlled</b> Cement Dust

#### GAS STREAM CHARACTERISTICS

Flow Rate (acfm)		Gas Stream Temperature (°F)	Particulate Grain Loading (grain/scf)	
Design Maximum 375	Average Expected 375	Ambient	Inlet N/A	Outlet 0.01
Pressure Drop (in H <sub>2</sub> O)		Water Vapor Content of Effluent Stream (lb water/lb dry air)	Fan Requirements	
5"		Ambient	(hp) N/A	(cubic ft/min) N/A

#### PARTICULATE DISTRIBUTION

(by weight)

Micron Range	Inlet	Outlet
0.0 - 0.5	0%	99.98%
0.5 - 1.0	3%	0.02%
1.0 - 5.0	17%	0.00%
5.0 - 10.0	18%	0.00%
10.0 - 20.0	21%	0.00%
over 20.0	41%	0.00%

#### FILTER CHARACTERISTICS

Filtering Velocity cfm/sq ft of cloth	Bag Diameter (Inches)	Bag Length (Inches)	Number of Bags	Number of Compartments in Baghouse
2.5	8"	48"	18	1
Bag rows will be: Staggered			Walkways will be provided between banks of bags: No	

**Filtering Material:** PE 37 100% Polyester 9oz.

**Describe Bag Cleaning Method and Cycle:** Air Vibrator Shaker

**Capital Installed Cost:** \$1,900      **Annual Operating Cost:** \$50

## FABRIC FILTERS

<b>Point Number (from flow diagram)</b>	<b>Manufacturer &amp; Model No. (if available)</b> Belgrade Steel Tank Co. - Belle 150
<b>Name of Abatement Device</b> Belle 150 Dust House	<b>Type of Particulate Controlled</b> Cement Dust

### GAS STREAM CHARACTERISTICS

Flow Rate (acfm)		Gas Stream Temperature (°F)	Particulate Grain Loading (grains/scf)	
Design Maximum 375	Average Expected 375	Ambient	Inlet N/A	Outlet 0.01
Pressure Drop (in H <sub>2</sub> O)		Water Vapor Content of Effluent Stream (lb water/lb dry air)	Fan Requirements	
5"		Ambient	(hp) N/A	(cubic ft/min) N/A

### PARTICULATE DISTRIBUTION

(by weight)

Micron Range	Inlet	Outlet
0.0 - 0.5	0%	99.98%
0.5 - 1.0	3%	0.02%
1.0 - 5.0	17%	0.00%
5.0 - 10.0	18%	0.00%
10.0 - 20.0	21%	0.00%
over 20.0	41%	0.00%

### FILTER CHARACTERISTICS

Filtering Velocity cfm/sq ft of cloth	Bag Diameter (Inches)	Bag Length (Inches)	Number of Bags	Number of Compartments in Baghouse
2.5	8"	48"	18	1
Bag rows will be: Staggered			Walkways will be provided between banks of bags: No	

**Filtering Material:** PE 37 100% Polyester Sac.

**Describe Bag Cleaning Method and Cycle:** Air Vibrator Shaker

**Capital Installed Cost:** \$1,800      **Annual Operating Cost:** \$50

### FABRIC FILTERS

<b>Point Number (from flow diagram)</b>	<b>Manufacturer &amp; Model No. (if available)</b> Belgrade Steel Tank Co. - Belle 225
<b>Name of Abatement Device</b> Belle 225 Dust House	<b>Type of Particulate Controlled</b> Cement Dust

#### GAS STREAM CHARACTERISTICS

Flow Rate (acfm)		Gas Stream Temperature (°F)	Particulate Grain Loading (grain/scf)	
Design Maximum	Average Expected		Inlet	Outlet
675	675	Ambient	N/A	0.01
Pressure Drop (In H <sub>2</sub> O)		Water Vapor Content of Effluent Stream (lb water/lb dry air)	Fan Requirements	
5"		Ambient	(hp)	(cubic ft/min)
			N/A	N/A

#### PARTICULATE DISTRIBUTION

(by weight)

Micron Range	Inlet	Outlet
0.0 - 0.5	0%	99.98%
0.5 - 1.0	3%	0.02%
1.0 - 5.0	17%	0.00%
5.0 - 10.0	18%	0.00%
10.0 - 20.0	21%	0.00%
over 20.0	41%	0.00%

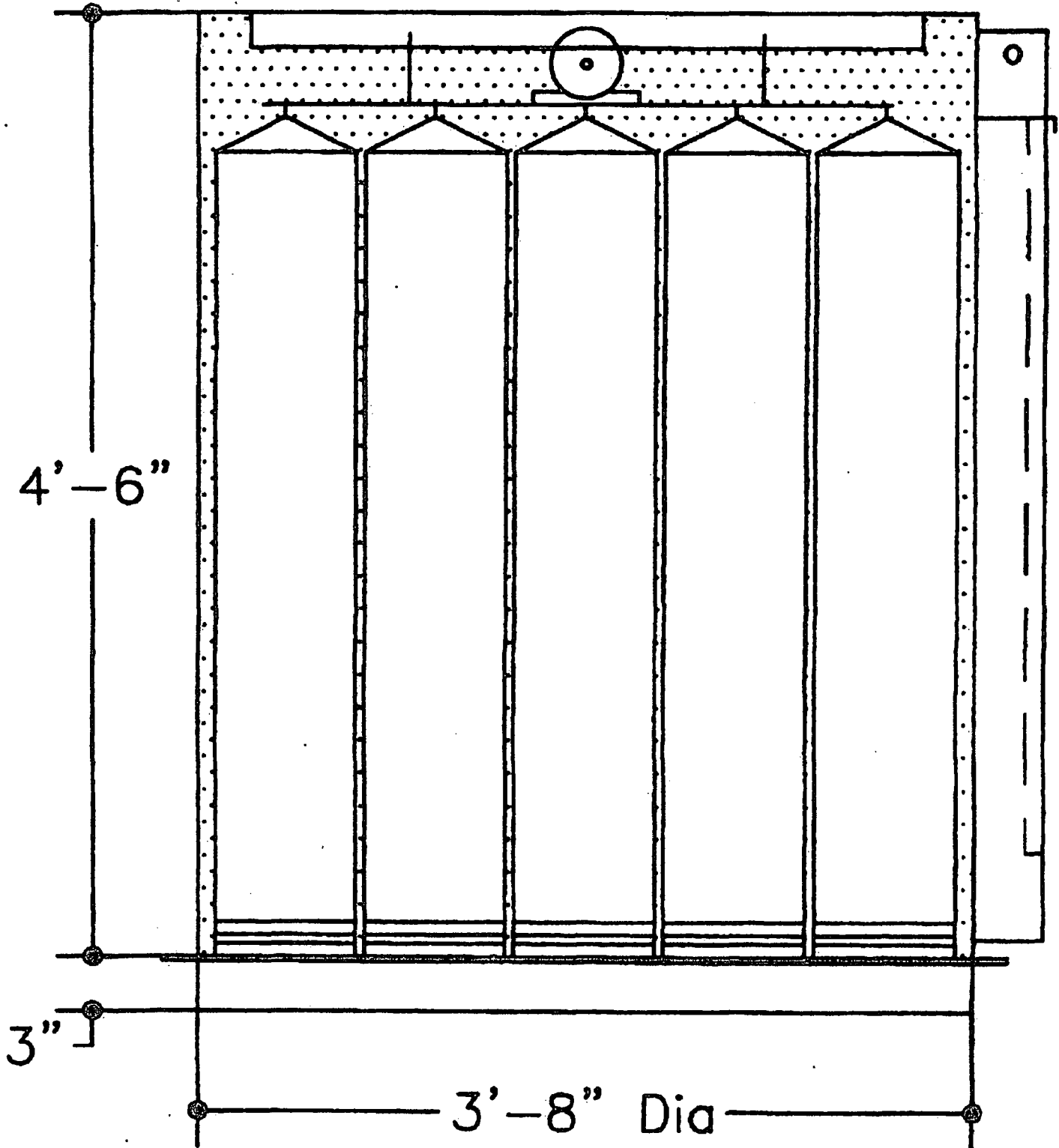
#### FILTER CHARACTERISTICS

Filtering Velocity cfm/sq ft of cloth	Bag Diameter (Inches)	Bag Length (Inches)	Number of Bags	Number of Compartments in Baghouse
3	8"	72"	18	1
Bag rows will be: <p style="text-align: center;">Staggered</p>			Walkways will be provided between banks of bags: <p style="text-align: center;">No</p>	
Filtering Material: PE 37 100% Polyester 8oz.				
Describe Bag Cleaning Method and Cycle:			Air Vibrator Shaker	
Capital Installed Cost:		\$2,200	Annual Operating Cost:	
			\$50	

Belgrade Steel Tank

Standard 150 SQ FT  
Dust House uses 48" bags

225 SQ FT = 6'6" OAH  
uses 72" long bags



# RECTANGULAR AIR PAD

- Promotes Material Flow
- Rugged Construction
- Economical
- Easy Installation

The Monitor air pad bin aerator is an aeration device used to promote the flow of dry bulk powders from a storage vessel.

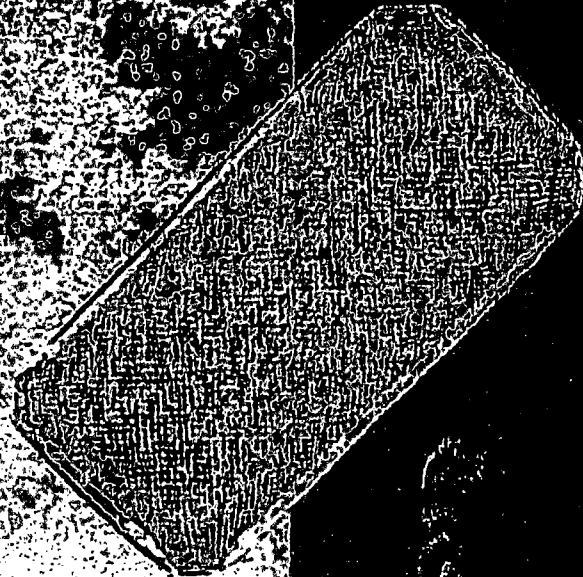
## PRINCIPLE OF OPERATION

The Air Pad operates by continuously introducing air into the body of the dry powder. When a powder is first conveyed into a storage vessel it is actually a highly aerated mixture of air and particulate. In this state the mixture flows quite readily. However, as the powder settles the solid particulate and air separate resulting in a decrease in volume and an increase in bulk density. In this deaerated state powders can behave more like a single large solid structure rather than a fluid-like mixture. By replacing the naturally lost air, the air to particulate mixture ratio is held thus maintaining the fluid like characteristic of the aerated powder.

## APPLICATIONS

For best results in promoting the flow of dry bulk powders, multiple rows of air pad bin aerators should be used. The number of rows and quantity of air pads in each row will differ by application. Monitor application engineers are ready to provide you with the best recommendation for your specific material flow problem.

Generally, four rows of air pad bin aerators on 12" or 15" centers is recommended. While the effective radius of each air pad is approximately 10", the air pads should be spaced so that the entire troublesome area is within the sphere of influence of the air pads. The following table should be used to determine the recommended air pads per row.



Air Pad

12" Centers		15" Centers	
Length of Sloping Bin Wall	# of Air Pads/Row	Length of Sloping Bin Wall	# of Air Pads/Row
1' 8"	2	1' 11"	2
2' 8"	3	3' 2"	3
3' 8"	4	4' 5"	4
4' 8"	5	5' 8"	5
5' 8"	6	6' 11"	6
6' 8"	7	8' 2"	7
7' 8"	8	9' 5"	8
8' 8"	9	10' 8"	9
9' 8"	10	11' 11"	10



"SETTING THE STANDARD FOR SUPPLIER EXCELLENCE"

**TYPICAL APPLICATIONS INCLUDE BUT ARE NOT LIMITED TO:**

• Cement	• Bentonite	• Gypsum
• Soda Ash	• Lime	• Flour
• Carbon Black	• Fly Ash	• Fibers
• Other Dry Powders		

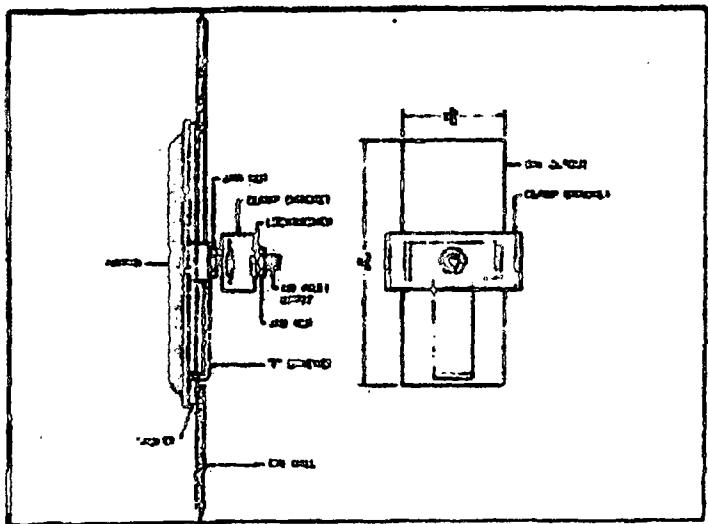
**FEATURES**

- ▼ Effective radius of 10 inches
- ▼ Adapts to almost any bin configuration
- ▼ Low cost
- ▼ Easy installation
- ▼ Minimal maintenance

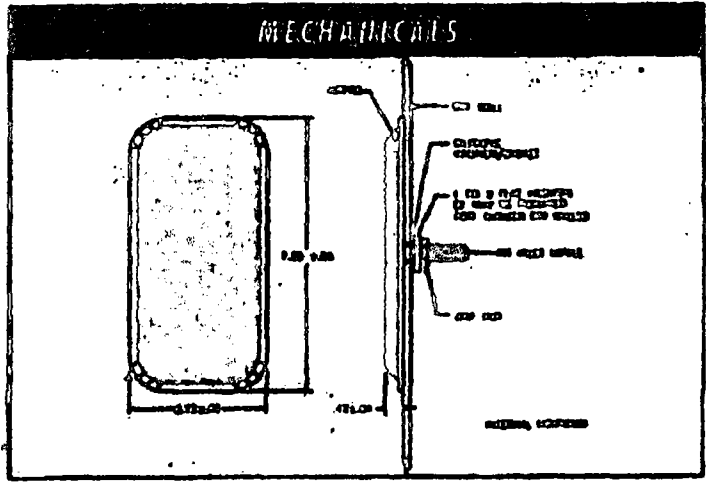
**ACCESSORIES**

An external mounting kit is available. This kit can completely eliminate the need to enter the bin to install or service air pad bin aerators. Using a 2-5/8" X 6-5/8" cutout hole in the bin wall, the mounting kit can be completely installed and serviced from outside the bin. Our air pad and external mounting kit can easily install in existing cutouts of other brands.

The external mounting kit includes gasket, clamp bracket, T bracket and necessary hardware for mounting with your air pad bin aerator and its mounting hardware.



Use of External Mounting Kit



**SPECIFICATIONS**

<b>Air Supply/Consumption:</b>	
<b>Air Supply:</b>	Clean, dry air 3 to 5 psi
<b>Air Consumption:</b>	1 psi - 4.2 acfm      4 psi - 7.1 acfm
	2 psi - 5.7 acfm      5 psi - 7.8 acfm
	3 psi - 6.5 acfm
<b>Materials of Construction:</b>	
<b>Body:</b>	Zinc-plated steel or 304 stainless steel
<b>Diffuser:</b>	Cotton (up to 180° F) Fiberglass (up to 650° F)
<b>Diffuser Screen:</b>	18 mesh zinc-plated steel or 304 SS
<b>Air Inlet Nipple/Nut:</b>	1/8" NPT nickel-plated brass
<b>Spacer Washers:</b>	Nickel-plated steel
<b>Washer/Gasket:</b>	Silicone (up to 650° F)
<b>External Mounting Kit:</b>	
<b>Gasket:</b>	Neoprene (up to 280° F)
<b>Bracket/Lockwasher:</b>	Zinc-plated steel
<b>Nut:</b>	Nickel-plated brass

**ORDERING INFORMATION**

**3 - 8 5 X X**

**CONSTRUCTION**

1 - Zinc Plated Steel	<b>DIFFUSER MATERIAL</b>
2 - Stainless Steel	1 - Cotton
	2 - Fiberglass

**ACCESSORIES**

3-6000 External Mounting Kit

**REPLACEMENT PARTS**

3-6001 Replacement Mounting Hardware (Internal Mtg.)  
3-2001 Replacement Gasket for External Mounting

**WARRANTY**

Mander Technologies warrants each air pad it manufactures to be free from defects in material and workmanship under normal use and service within two (2) years from the date of purchase within North America, and within one (1) year from date of purchase outside of North America. The purchaser must notify Mander of any defects within the warranty period, return the product intact, and properly insure/transport it. The obligation of Mander Technologies LLC under this warranty is limited to repair or replacement at its factory. This warranty does not apply to any product which is repaired or altered outside of Mander Technologies' factory, or which has been subject to misuse, negligence, accident, improper wiring by others, or improper installation.

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