



"Setting The Standard For Supplier Excellence"



Rectangular Air Pad

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



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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 inch (305mm) or 15 inch (381 mm) centers is recommended. While the effective radius of each air pad is approximately 10 inches (254 mm), 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.



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

Cement	Soda Ash
Carbon Black	Bentonite
Lime	Fly Ash
Gypsum	Flour
Resins	

12 in (305 mm) Centers

Length of Sloping Bin Wall	# of Air Pads/Row
1ft 8in (508mm)	2
2ft 8in (813mm)	3
3ft 8in (1,118mm)	4
4ft 8in (1.42m)	5
5ft 8in (1.73m)	6
6ft 8in (2.0m)	7
7ft 8in (2.34m)	8
8ft 8in (2.64m)	9
9ft 8in (2.95m)	10

15 in (381 mm) Centers

Length of Sloping Bin Wall	# of Air Pads/Row
1ft 11in (584mm)	2
3ft 2in (965mm)	3
4ft 5in (1.35m)	4
5ft 8in (1.42m)	5
6ft 11in (2.1m)	6
8ft 2in (2.5m)	7
9ft 5in (2.87m)	8
10ft 8in (3.25m)	9
11ft 11in (3.63m)	10

FEATURES

- ▼ Effective radius of 10 inches (254 mm)
- ▼ 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 6-3/8 inch (66.5 X 162.0 mm) 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.

