



Client and Application:

A leading aggregate company in Southern Ontario was having dust issues in their sifting building and truck filling area. The dust problem was so bad inside the building you could not enter the building as visibility was reduced to zero. The truck filling area also had a dust issue. During the trailer filling process dust would billow out from the area.

Solution:

The solution for the sifting building was to extract air from the building on opposite side of overhead doors, exchanging the air once every four minutes, on a continuous basis. The truck filling area problem was remedied by enclosing the area and extracting air from the side at each silo, thus maintaining a slight negative air pressure within the loading area. The building required 40,000 cfm to exchange the air every 4 minutes, and by using auto blast gates on the building, when a truck is to be filled (a few times a day), the airstream of 40,000 cfm is redirected to the truck loading area.

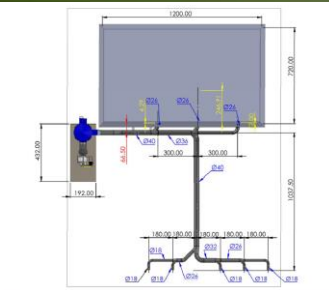
- Equipment selected for this application was a Donaldson Torit RF Baghouse with its own PD air pump (customer did not have enough compressed air supply for the collector as their air system was already maxed out).
- 100hp fan with custom exhaust silencer to meet customer's noise requirements.
- The project was handled as a 'turnkey' solution by the AST Group of companies <https://astgroup.ca/>
- Engineered design drawings showing layout of equipment and ductwork supplied by <https://astengineering.ca/>
- All ducting & mechanical installation done by <https://astmechanical.ca/>

Equipment:

1 Torit RF baghouse model 356RFWH10 Link <https://astcanada.ca/search-by-product/dust-collectors/baghouse-dust-collectors/rf-baghouse-dust-collectors/>

- 1 - 100hp heavy duty backward inclined blower
- 1 - custom fan silencer
- 4 - auto blast gates
- 1 - discharge rotary airlock
- 1 - waste bin dump hopper

Installation pictures:



Industry:

Aggregates

Contact:

For an update on the performance of the system, please contact:

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