ENGINEERING CONTROLS FOR SILICA DUST

(DUST COLLECTION SYSTEM)

Brieser will ensure that each employee with respect to training can demonstrate knowledge and understanding of all aspects of our Silica Exposure Control Plan located in Section 45 of the Brieser SH&E Manual.

GENERAL

HEPA VACUUM

Users of these products should have **HEPA Vacuum Silica Training**, found under **Concrete Tools**. Follow training guidelines as well as manufacturer specific instructions for use, cleaning and disposal of collection bags, and cleaning and change out times of the HEPA filters.

TOOLS/ ATTACHMENTS

This system provides silica dust control through various attachments which will marry to electric and pneumatic drilling, chipping, breaking and grinding devices. Prior to use, the operator of the specific tool being used should refer to their training history and ensure that they have been trained on that piece of equipment before moving forward with the task assigned. Always read the owner’s instruction manuals before use of each individual item.

**Electric chipping/ bush hammer/ busting**- There are several different sized adaptors that will marry the gun and the bit being used to the hose of the vacuum.
**Drilling** - You can use the Large Hammer Extraction device which suctions to the surface and provides an area big enough to allow up to 2” bits and will extract the dust produced. Can be used vertically, horizontally and overhead.

There is also a telescoping attachment for smaller holes.

**Cordless** - A self-contained system where one battery runs the drill and the attached Hepa vac. Remember the collection of dust here is limited due to the small storage area of the vacuum system.

**Pneumatic** - Available as well is an adaptor to fit on the end of a jackhammer that will marry the jackhammer to the vacuum. One fitting is adjustable to fit around different sized hammers and can be adjusted to move higher or lower to the surface being demolished.

**Grinding** - A dust shroud is available for 5” grinders.
Remember to read and follow the manufacturer’s instructions before use. There is a reference chart available from DeWalt to help in the selection of the proper attachment and adaptors for the tool being used. Use the right attachments and adaptors to marry the tool being used to the vacuum. Hose connections are simple twist lock, make sure hoses are attached and locked onto fittings to insure complete dust control.
HAZARDS TO BE AWARE OF

In addition to the possibility of silica exposure, the user should be aware of other hazards associated with each tool being used, e.g., electric shock hazard with electric tools, noise, and pinch points to name a few. Inspect all tools, chords, hoses, etc. before use. Use of proper PPE, GFCI’s and all safe work practices will apply per each individual tool.

MAINTENANCE, STORING & INSPECTIONS

Before use, make sure all attachments, adaptors and hoses are in working condition and free from obstruction. Make sure connections create a good seal to prevent the escape of any silica during operation. Use the proper collection bag in the vacuum as not to damage or “overwork” the HEPA filters. Periodically throughout the task take time to check everything to keep from creating a buildup in the system in order to maintain the desired control of contaminating particles in the work area. If at any time any part of the system needs to cleaned, or after the task has been completed, take the proper measures needed to prevent the release of any contaminating dust or particles into the area during cleanup. *DO NOT USE COMPRESSED AIR!*

When not in use, store them in their proper containers to prevent damage before the next person uses them. Follow manufacturer recommendations for maintenance of each item.
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