

CARBON FIBER BOOTH SAFETY OPERATING PROCEDURES

McDonald #051

Rev. 1.0

Revision Date: March 17, 2017

Revised By: Workshop Safety Committee

- **This procedure should not supersede the instruction of respective MSDS.**
- **This booth has been designed for the capture of carbon fiber dust and particles, only generated from cutting, buffing, sanding, lapping and polishing activities and its operation shall be limited exclusively to the foregoing.**
- **Painting, machining, grinding, deburring or any process to further manufacture or finish any volatile or potentially volatile material, liquid or solid, is strictly prohibited.**
- **The booth should never be operated with the suction louvers removed from the face of the collector.**
- **DO NOT use this booth unless you have read, understand and followed the respective safe working procedure and MSDS recommendations.**
- The booth will be locked at all-times and only used by the workshop technicians and the design team students as per the access list.
- The log sheet has to be properly completed and signed by the user.

REQUIRED PROTECTIVE EQUIPMENT

- Safety glasses must be worn at all times in work areas
- Long and loose hair must be contained
- Appropriate footwear with substantial uppers must be worn
- Close fitting/protective clothing must be worn
- A respirator fitted with approved respiratory cartridges may be required
- Rings and jewellery must not be worn

PRE-OPERATIONAL SAFETY CHECKS

1. Ensure no slip/trip hazards are present in workspaces and walkways.
2. Locate and ensure you are familiar with the operation of the ON/OFF starter.
3. Locate and be familiar with the emergency stop button.
4. Locate and check air isolation valve.
5. Check air pressure regulator and pressure gauge operates, pressure should be set at 90psi max.
6. Wear the required protective equipment as per the relevant MSDS.
7. Make sure the booth is clean; free from any debris, use the dedicated vacuum cleaner to clean it. Do not clean or empty the vacuum cleaner.
8. Empty dust drawers to avoid accumulation.
9. Make sure nothing restricting the air flow through suction louvers
10. Faulty equipment must not be used and must be immediately reported to the shop technician.

OPERATIONAL SAFETY CHECKS

1. Place the work-piece on the working bench; it should be between yourself and the suction louvers.
2. At all times stand upstream of the work-piece.
3. DO NOT cross the red line indicated on the floor while the system is running.
4. DO NOT direct any burning particulate or any sparks directly into the suction area of the unit.
5. No burning, torches or cutting should be carried out in direct proximity to the unit.

HOUSEKEEPING

1. Remove your working piece and tools.
2. Initiate filter reverse pulse cleaning system by pressing consecutively on the air valves above the air inlet louvers; make sure the air pressure is at 90 psi before each valve's activation (as shown in the below image).
3. Turn off the exhaust fan.
4. Use the vacuum cleaner to clean the booth, including the floor, walls and workbench.
5. Leave the work area in a safe, clean and tidy state

In case of emergency contact any of the technicians during normal working hours or call security at # 3000

Carbon Fiber Booth Users Log Sheet

- Please fill this log sheet each time you use the Carbon Fiber Booth.
- The information contained in the SOP and the MSDS documents is essential for the safety of everybody – make sure you take the time to familiarize yourself with this information for all products that you use and follow the recommendations.

Date	Name	ID #	Start Time	End time	Operation description and remarks	*Read MSDS	*Read SOP

***I acknowledge I have read and understand the SOP instructions and the relevant MSDS recommendations and I agree to abide by them.**

