



Underground Systems
Self Storing, Vehicle
Extraction

**TECHNICAL
INFORMATION**

PROJECT: _____
LOCATION: _____
ARCHITECT: _____
ENGINEER: _____
SALES ENGINEER: _____
DATE: _____

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UNDERGROUND EXHAUST FLOOR OUTLETS

The floor outlet assembly shall consist of 1/4" thick solid steel door. The door when closed shall be flush with the concrete floor level and the door when open must be able to lay flat back so as not to cause an obstruction for persons or vehicles.

The door shall be mounted to a 14 gauge pressed stamped steel floor flange frame. The door attaches to the frame by means of (2) heavy gauge steel hinged bracket and die formed steel hinge pins.

The body of the floor flange shall be constructed of 20 gauge stainless steel and permanently welded and sealed to the floor flange.

The upper floor flange assembly shall be supplied with a 20 gauge stainless saddle or extension tunnel, depending on the type of main duct specified. The saddle or extension tunnel shall be the female portion of the entire floor outlet assembly. The upper floor outlet flange shall be the male component and will fit into the saddle or tunnel by means of a telescopic effect. The telescopic mating will allow for easy setting of the final height adjustment so the upper door and flange will be flush with the concrete floor level.

MAIN DUCT TIPS:

Main duct and connecting duct diameters do not follow standard chart recommendations for air flow. You must keep in mind that the hose used creates a restriction in the duct diameters when a floor outlet assembly is to be attached to the duct.

8" - minimum diameter duct when using a single 3" or 4" hose floor outlet.

10" - minimum diameter duct when using a dual 3", or single 5" or 6" hose floor outlet.

From this point, standard procedures are to be followed. Increase the main duct diameters as more floor outlets are added to the duct system as you work towards the fan. Keep in mind to use slightly larger diameter duct than normal air flow design procedures recommend because of extra restrictions. The larger diameters allow for easier operation of the hose sliding in and out of the duct system.