

PVS

MECHANICAL ENGINEERING SPECIFICATIONS

FOR UNDERGROUND AIR DUCT AND DUCTING CORROSIVE FUMES



The Original Plastic Coated Steel

Plastic heat-fused to galvanized steel.

-A proven product since 1967-

No other brand has all the approvals

U/L Listed: Spec 181 Class 1

I.C.B.O Listed: Report Number 2782

Fire marshals throughout the country and hundreds of cities and countries have approved PVS in their building codes.

Specify PVS for your underground and corrosive fume duct requirements.

PVS is available nationwide through authorized distributors.

SPECIFICATIONS FOR UNDERGROUND DUCTS

1 All Underground duct is designated as 4x1 PVS coating. Duct to be made with 4 mil to outside and 1 mil epoxy backcoat is inside and can be visually seen by trademark printing.

2 The following diameters are to be manufactured in accordance to the following chart.

3"0 - 8"0	26 Gauge PVS
9"0 - 16"0	24 Gauge PVS
17"0 - 24"0	22 Gauge PVS
25"0 - 32"0	20 Gauge PVS
33"0 - 80"0	18 Gauge PVS

3 External Corrugations are recommended for over 14" diameter for underground applications.



4 Load Specifications

#1 Standard	4" 0 - 8" 0 10" 0 - 12" 0	400lbs./Linear Ft. 800lbs./Linear Ft.	<i>Any duct work installed over 3 feet caution is to be taken on compacting around duct. On great depths, bridging or supports used internal or external are recommended.</i>
#2 Corrugated	14" 0 - 36" 0	2000lbs./Linear Ft.*	

*All ducts 14" or more for underground installation are corrugated.

5 All Ducts should be constructed of PVS material in accordance with manufacture's specifications.

- (a) All pipe and fittings are to be constructed of PVS material.
- (b) All duct sections should be joined by connectors using PVS material.
- (c) All joints should be sealed with sealant and taped in order to insure and air tight and water tight joint.
- (d) All ducts and fittings should be installed using a clean sand or suitable material for backfilling, having a good compaction quality.

6 Scratched surfaces - If, through a field accident the PVS coating is scratched so as to expose the bare metal, apply PVS touch up paint to the injured surface. This can be sprayed or brushed on. Apply liberally and allow time for drying. The damaged surface is then ready for service.

7 PVS available in sheets or coils.

8 PVS temperature limits - Temperature limits for PVS are normal for most industrial ducting needs. It is unaffected by cold down to -40° F, and will withstand a constant heat of up to 250° F, with limited exposure to 400° F.

PVS Underground Duct Size, Gauge and Weight

Duct Diameter	Gauge	Weight Per Ft.	Duct Diameter	Gauge	Weight Per Ft.
4"	26	1.1	24"	22	12.0
6"	26	1.6	26"	20	13.5
8"	26	2.1	28"	20	15.0
10"	24	3.6	30"	20	21.9
12"	24	4.3	32"	20	23.4
14"	24	5.1	34"	18	24.8
16"	24	7.0	36"	18	26.2
18"	22	7.7	40"	18	29.3
20"	22	8.6	44"	18	32.0
22"	22	9.5	48"	18	35.0

Diameter up to 80" 14 gauge

SPECIFICATIONS FOR DUCTING CORROSIVE FUMES

- 1 When specifying PVS for fume exhaust systems, utmost attentions must be given to the fact that the greatest exposure will be internal not external. In most cases 4 x 1 coating will be sufficient reversed 4 mils of PVS coating on the inside surface and .1 mil epoxy backcoat on the outside. This must be stated in specifications.
- 2 In certain instances where external as well as internal exposure is anticipated, specifications should be stated as 4 x 4 PVS. This insures protections on both sides of duct work.
- 3 PVS is available in sheet stock with either 4 x 1 or 4 x 4 coating. Thus, Hoods, Vents, etc. can be fabricated with PVS keeping the system as complete and uniform as possible. Hoods, Vents and other fittings may be custom made on the job by contractors or ordered per specifications through PVS manufacturers.
- 4 PVS is ideal for hoods where exposure to radioactive isotopes is involved. There is no existing code - stainless steel is used only because of the ease of cleanup. But PVS can be cleaned just as easily.
- 5 Sealant is applied to all exposed edges and rivets.

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