

Drop Pipe Inlet Design Information Sheet

SI Units

This worksheet is a supplement to Publication 832: Agricultural Erosion Control Structures: A Design and Construction Manual.

Section 1: Watershed and Pipe Design Parameters

No.	Description	Input Value
1	Watershed area	_____ ha
2	Average grade of watershed	_____ %
3	Runoff curve number from Table 2.2 – 2.4	_____
4	Peak flow from watershed for a 10-year storm from Table 2.5-M to 2.11-M	_____ m ³ /s
5	Drop pipe fall (top elevation – bottom elevation)	_____ m
6	Horizontal distance to complete fall	_____ m
7	Type of drop pipe inlet (See Section 4.3.2 of Publication 832).	Fill out applicable section below (A/B/C)

Section 2: A. Drop pipe structure

Description	Input Value
Number of units	_____
Head of water over horizontal pipe	_____ m
Horizontal pipe diameter – Table 4.15-M	_____ mm
Vertical pipe diameter – Table 4.16-M	_____ mm
Berm height (min. 450 mm. + freeboard of 300 mm)	_____ mm

Section 2: B. Sloped pipe structure

Description	Input Value
Number of units	_____
Slope of pipe (>2.5%)	(_____ m fall ÷ _____ m length) x 100 = _____ %
Diameter of sloped pipe – Table 4.17-M	_____ mm
Berm height (pipe diameter + freeboard of 300 mm)	_____ mm

Section 2: C. Small capacity riser pipe

Description	Input Value
Number of units	_____
Slope of horizontal pipe	_____ %
Diameter of horizontal pipe – Table 4.18-M	_____ mm
Riser pipe diameter — Table 4.19-M to 4.20-M	_____ mm
Orifice plate required? – Table 4.21-M to 4.22-M (check one)	Yes No
Diameter	_____ mm
Berm height: (depth of water + freeboard (minimum 150 mm)):	_____ mm

Section 3: Anti-Seepage Collar Specifications

8. Anti-seepage collars required? – Section 4.3.2: (**check one**) Yes No

Number of collars: _____

Diameter required: _____ mm

Distance from drop pipe:

1st collar: _____ m

2nd collar: _____ m

Section 4: Drop Pipe Specifications

No.	Description	Input Value
9	Inlet grate – spacing of bars (refer to Section 4.3.2 of Publication 832)	_____ mm
10	Horizontal or sloped pipe – length	_____ m