

STATIC ANALYSIS & DESIGN OF PIPE ANCHOR BLOCK FOUNDATION

DESIGN OF PIPE ANCHOR BLOCK

FOUNDATION GEOMETRY & SKETCH

Length of the Pipe Block
 Width of the Pipe Block
 Length of the Pipe Block Foundation
 Width of the Pipe Block Foundation
 Depth of the foundation block below H.P.P
 Height of Foundation block above H.P.P
 Height of the Pipe
 Depth of Raft
 Concrete , Fck
 Reinforcement grade

L =	1800	mm
B =	1800	mm
L =	3000	mm
B =	3000	mm
=	2000	mm
=	500	mm
h =	1500	mm (Avg fit assumed)
=	800	mm
	30	N/mm ²
	500	N/mm ²



WEIGHTS OF FOUNDATION & PIPE

Weight of concrete foundation (W_f)
 (Pipe 1.2m dia Detected from conc wt)

$$= (1.8 \times 1.8 \times 1.8) \times 25 - \text{Pipe 1.2Dia} = \text{raft weight}$$

$$= 9.7 \text{ kN}$$

Operating weight of Pipe Anchor Block, (W_o)

$$= 240.00 \text{ kN}$$

Total weight of Foundation system, P_o

$$= 9.7 + 240$$

$$= 249.70 \text{ kN}$$

Pipe Lever arm for moment

$$= 0.65 \text{ m}$$

Piping Horizontal Loads (input from Piping Stress)

F_y

$$= 260 \text{ kN}$$

F_x

$$= 25 \text{ kN}$$

Lateral Force due to thrust

F_y

$$= 260 \text{ kN}$$

(Piping load

transverse direction of the block)

Moment due to lateral Force

M_{x1}

$$= 260 \times 0.65$$

$$= 169.00 \text{ kNm}$$

Longitudinal Force due to unbalanced force

F_x

$$= 25 \text{ kN}$$

M_{x1}

$$= 25 \times 0.65$$

$$= 16.25 \text{ kNm}$$

Anchor Block Asce Manual

S Nieto



Anchor Block Asce Manual:

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