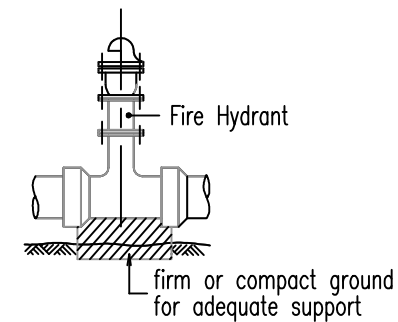


**NOTES**

1. All fittings shall be provided with thrust anchorage in accordance with WSA standard data and details indicated by Table 7.3 and Figures 7.11 to 7.16 in WSA Code 03-2011 (as generally illustrated in the details provided hereon), equivalent to 1.6MPa mains pressure.
2. Concrete N25 in accordance with AS 1379 and AS 3600.
3. Nominal thrust area 'N' shall be effected by Class N25 concrete over full length of fitting, and extending in depth from the bottom of the trench to 65mm above the top of the fitting.
4. Minimum area of blocks for reducers shall be equal to the difference in corresponding area for dead ends of each end diameter of reducer.
5. Shape and dimensions of concrete blocks shown are diagrammatic only.
6. For vertical thrust acting downwards, the safe bearing loads of the various soils may be taken as twice those for horizontal thrusts.
7. When placing the concrete on a uPVC pipe, care shall be taken to avoid encasing the pipe completely. The maximum encasement shall be 180°.
8. Where uPVC rubber ring jointed pipes are used, the normal practice of anchoring of bends, tees, dead ends and reducers shall be followed.
9. When setting uPVC pipes in concrete a membrane of polythene, PVC or felt shall surround the pipe and fitting to permit pipe movement in the concrete.
10. Unless otherwise specified, concrete anchorages are required for all valves  $\phi 200$  and above. Concrete anchorages are required for all valves and fittings 80mm and above when uPVC is being used. Thrust area shall be as for dead ends.
11. Reducers to have a minimum area for anchors equal to difference in corresponding area for dead ends of each diameter of reducer.
12. Minimum cover to pipe shall be 600mm.



C	DEVELOPMENT MANUAL UPDATES AND AMENDMENTS 2018	26/10/18
B	GENERAL UPDATES AND AMENDMENTS	26/9/18
A	ORIGINAL ISSUE	1/3/97
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WATER MAIN  
THRUST BLOCK DETAILS

WATER  
Standard  
Drawing  
W-0041

A B C