

**Asset Management Directorate  
Guidelines  
For The Design Of Water  
Distribution Networks In  
Al Ain Region**

**GL.AM.01**

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Approved by:

Managing Director

## 1. PURPOSE

The purpose of this design guideline is to establish uniform procedure for the design of water distribution networks in Al Ain Region complying with the RSB requirements, ADWEA standards, AADC practices and the best engineering practice in water supply industry.

## 2. SCOPE

This design guidelines cover the design parameters and design assumptions to be applied in the design of the water distribution networks in Al Ain Region. Also it explains the design practice and approaches applied by AADC that to be followed by the designers.

## 3. DEFINITIONS/TERMINOLOGY

<b>AADC</b>	Al Ain Distribution Company
<b>AAM</b>	Al Ain Municipality
<b>ADWEA</b>	Abu Dhabi Water & Electricity Authority
<b>AMD</b>	Asset Management Directorate, AADC
<b>B of Q</b>	Bill of Quantities
<b>CSD</b>	Customer Services Directorate, AADC
<b>DI</b>	Ductile Iron
<b>Dia</b>	Diameter
<b>DMA</b>	District Meter Area
<b>DN</b>	Diameter Nominal
<b>DOT</b>	Department of Transport, Abu Dhabi
<b>HDPE</b>	High Density Polyethylene
<b>PEA</b>	Maximum Allowable Test Pressure at Site
<b>PFA</b>	Allowable Operating Pressure
<b>PMA</b>	Allowable Maximum Operating Pressure
<b>PN</b>	Nominal Pressure (French)
<b>RSB</b>	Regulation & Supervision Bureau
<b>SDR</b>	Standard Diameter Ratio
<b>TPD</b>	Town Planning Department, Al Ain Municipality
<b>TRANSCO</b>	Abu Dhabi Transmission & Dispatch Company
<b>UPC</b>	Abu Dhabi Urban Planning Council
<b>WDC</b>	Water Distribution Code
<b>WNP&amp;DD</b>	Water Network Planning & Development Department