



ROTO- MOULDING TANKS

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Roto-moulding is a process for manufacturing large sized hollow plastic products which cannot be produced economically by any other plastic moulding process. This method has particular advantages in terms of relatively low levels of residual stresses and inexpensive moulds. The process involves loading a two part metal mould with a predetermined quantity of fine polymer powder. The mould is then heated externally to a high temperature inside convection oven and rotated on two principle axis simultaneously at relatively slow rpm without generating centrifugal force. As the polymer melts, it adheres to the inner surface of the mould. After a given length of heating time the metal mould is cooled and when the plastic inside has become solid, product can be removed from the mould by opening clamps fixed at parting line. The plastic component is (example, a water tank) is then removed from the mould. The plastic is moulded at atmospheric pressure and as a result they are stress-free.



Muna Noor stock a number of sizes of water tank moulds, please ask your local representative for further information.

Muna Noor is very happy to provide a custom rotomoulding services for business needs whereby we construct moulds for the part as per your design and manufacture the product on your behalf. Please contact us with your designs for a feasibility study and receive quotation.

As an example of our work please see the following information:

Fort Shape Water Storage Tanks

Salient Features

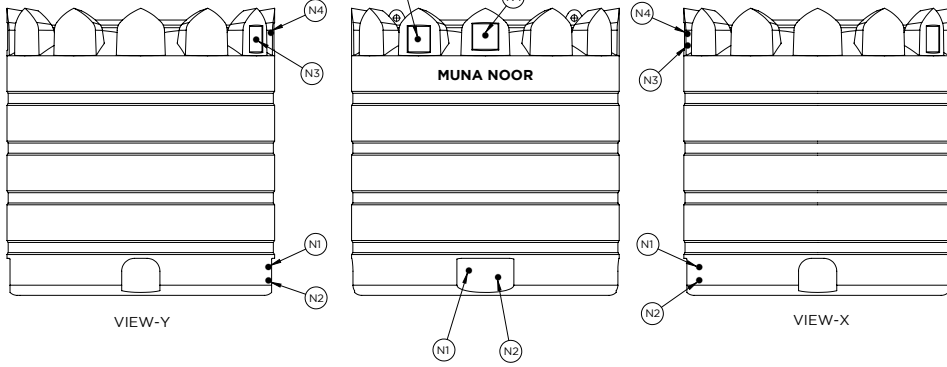
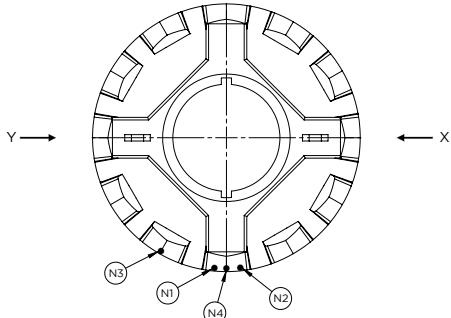
- Tank is moulded from UV stabilized and Food grade polyethylene in 3 layers
- Tank fittings are also UV stabilized and Food grade polypropylene.
- Easy to lift with moulded lifting lugs for installing the tank on flat continuous support
- Minimizes algae growth, one piece moulding, leak proof, ventilated lid for fresh air circulation
- One year warranty of tanks if installed as per our Installation Instructions
- Available in capacity from 200 US gallons to 1000 US gallons
- Tank has black middle layer to prevent sunlight penetration in water to avoid algae growth. Snow White outer layer to match with building architecture & Bluish white inner layer for better visibility of water stored inside.

Capacity	Nominal Dimensions (MM)		
	Overall Diameter	Overall Height	Manhole Diameter
200 USG	1050	1126	420
300 USG	1200	1285	500
400 USG	1365	1355	500
600 USG	1550	1570	500
800 USG	1700	1738	500
1000 USG	1840	1866	500

Tolerance : 3 2.5% on Nominal Dimensions as mentioned above

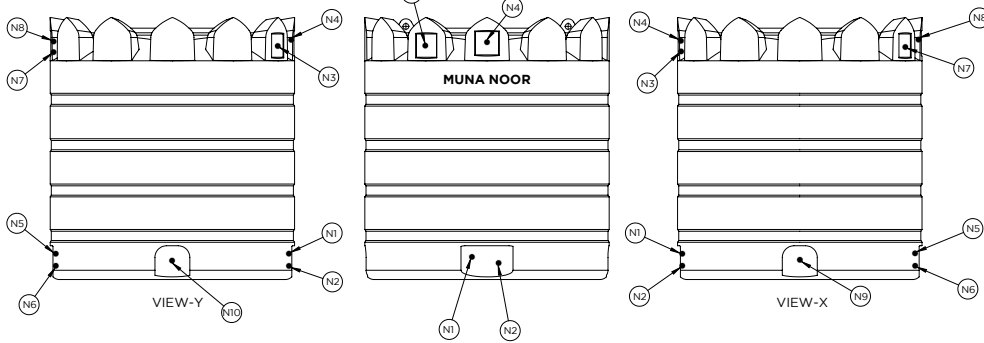
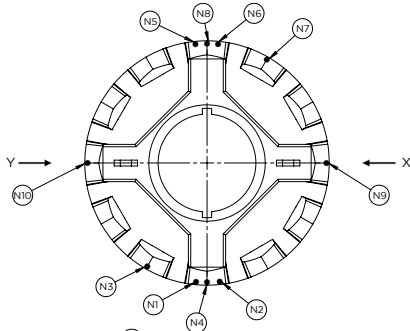
Nozzle orientation diagram of standard water tanks

Capacity	N1 (outlet)	N2 (Drain)	N3 (Overflow)	N4 (Inlet)
200 USG	1"	1"	1"	1"
300 USG	1 1/2"	1"	1"	1 1/2"
400 USG	1 1/2"	1"	1 1/2"	1 1/2"
600 USG	1 1/2"	1"	1 1/2"	1 1/2"
800 USG	1 1/2"	1 1/2"	1 1/2"	1 1/2"
1000 USG	1 1/2"	1 1/2"	1 1/2"	1 1/2"



Nozzle orientation diagram showing possibilities to fix tank fittings

Nozzle Location	Fitting	Size					
		1/2"	1"	1 1/4"	1 1/2"	2"	Others
N1	Outlet						
N2	Drain						
N3	Overflow						
N4	Inlet						
N5	Outlet						
N6	Drain						
N7	Overflow						
N8	Inlet						
N9	Outlet						
N10	Outlet						



Muna Noor also make rotationally moulded road barriers. Please contact us for details.



ABOUT MUNA NOOR

Muna Noor is one of Oman's leading manufacturers and suppliers of plastic pipe systems, meeting the needs of the construction, civil, agricultural, industrial and petrochemical industries, primarily in the Middle East, but also supplying Asia and North Africa.

To date Muna Noor's divisions deliver large-scale and bespoke uPVC, HDPE, DWC and Multi-layer HDPE pipes, fittings, plastic fabrication, lining for steel pipe, traditional and electro fusion welding solutions, complete irrigation systems, SCADA control systems and a multiplicity of valves and controls for water.

The company continues to develop product state-of-the-art solutions with the aim to exceed client expectations and collaborate on new and exciting projects.

As an ISO 9001:2008 certified company, our primary commitment is to deliver quality products and services to clients. Muna Noor's quality and success has also been recognised by financial industry leaders in the region and has been made a subsidiary by the Boubyan Petrochemical Company (K.S.C), which is a blue chip company of the Kuwait Stock Exchange and premium institution in Kuwait for investment in the field of petrochemicals by the private sector.



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