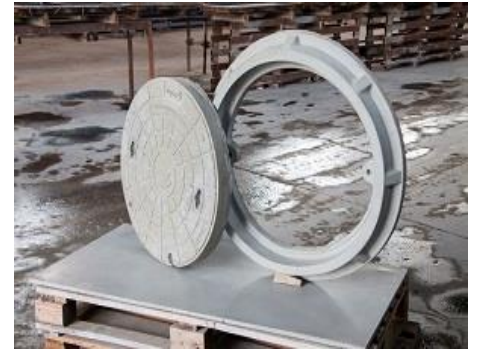


Manhole Covers

Designed and constructed in accordance with Iranian National Standards 14976-1 and 14976-4

Class D400

Suitable for routes of light and heavy vehicles and parking lots



- Resistant to weathering, corrosion, and abrasion
- Slip-resistant
- Fire-resistant
- Theft-proof
- Reasonable price (compared to other types of cover)
- Suitable for various kind of manhole
- Customized design (logo, organization name, and technical specifications)

Requirements	Description	Allowable Quantity	Quantity of product	Result
Efficiency	Cover load-bearing capacity D400	400 kN	410 KN	✓
Designing	The minimum ventilation area for a lid with a diameter of the empty mouth smaller than or equal to 600 mm	5% of the circular area with a diameter equal to the opening	13%	✓
	Length of the openings in the ventilated area of the cover C250, D400	Smaller than or equal to 170 mm	100 mm	✓
	Diameter of the openings in the ventilated area of the cover C250, D400	38 mm	40 mm	✓
	Minimum depth of cover relevant to the cover D400	50 mm	50 mm	✓
	Maximum total slack	9 mm	6 mm	✓
supplementary	Concrete quality	Dense and Homogeneous	Dense and Homogeneous	✓
	Minimum compressive strength of concrete	45 Mpa	+120 Mpa	✓
	Maximum water-to-cementitious materials ratio	0.45	- 0.22	✓
	Water absorption of concrete	Maximum 6 percent of mass	-0.02%	✓
	Maximum chloride ion content in concrete (Relative to cement mass)	0.20%	0.001%	✓
	Maximum weight loss for freeze-thaw resistance	2 kg/m ²	0	✓