



## Manhole cover



Aluminum manhole cover



Stainless steel manhole cover

# MoonBay Profile

Hangzhou Moonbay Industrial CO., Ltd is a professional construction material manufacturer integrating obligation with R&D, design, produce, sale and service.

Since its establishment on July 25, 2013, the company has developed and produced products such as: Aluminum manhole cover, Stainless steel manhole cover, Adjustable Pedestal System, Garden Edge System, Trench Drain System and Tile Leveling System with 30 innovative patents.

Being honest, professional, innovative and positive is our business concept. Offering great quality product and excellent service is one of our mission.

Moonbay factory located in Zhuji, Shaoxing with 13000 SQM area. There are over 60 automatic production Line. Moonbay is now world-famous brand and hot selling in Europe, Asia, Australia, North America. We look forward to cooperating with you.



**13000+**

*13000 SQM area factory*



**30+**

*Innovative patents*



**60+**

*Automatic production Line*



**30+**

*Sales around the world*



# Aluminum manhole cover VS Stainless steel manhole cover

Aluminum manhole covers and stainless steel manhole covers each have their own advantages and disadvantages. The choice between them depends on specific factors and requirements.

***Here are some advantages of aluminum manhole covers over stainless steel manhole covers:***

## **Lightweight**

Aluminum is significantly lighter than stainless steel, making aluminum manhole covers easier to handle and install. This can reduce the risk of injury during installation and maintenance.

## **Corrosion Resistance**

Aluminum is naturally resistant to corrosion due to the formation of a thin oxide layer on its surface. This oxide layer protects the underlying metal from rust and deterioration caused by exposure to moisture and environmental elements.

## **Cost-Effectiveness**

Aluminum is generally less expensive than stainless steel, which can lead to cost savings in both manufacturing and purchasing. This can be especially beneficial for projects with budget constraints.

## **Thermal Conductivity**

Aluminum has high thermal conductivity, which means it can dissipate heat more effectively than stainless steel. This property can prevent the manhole cover from becoming excessively hot when exposed to sunlight or high temperatures.

## **Non-Magnetic**

Aluminum is non-magnetic, which can be advantageous in certain applications where magnetic interference needs to be minimized, such as near sensitive electronic equipment.

## **Aesthetics**

Aluminum can be easily molded and finished, allowing for more design flexibility and a smoother, sleeker appearance compared to stainless steel.

## **Environmental Impact**

Aluminum is highly recyclable, and using aluminum manhole covers may align better with sustainability goals due to its recyclability and lower energy consumption during the recycling process.

***Here are some advantages of stainless steel manhole covers over aluminum manhole covers:***

#### ***Strength and Durability***

Stainless steel is known for its exceptional strength and durability. It can withstand heavier loads and traffic compared to aluminum, making it a better choice for areas with heavy vehicular traffic or where the cover needs to support significant weight.

#### ***Resistance to Wear and Tear***

Stainless steel is highly resistant to wear, abrasion, and impact, which makes it suitable for locations with frequent use or exposure to harsh conditions.

#### ***Longevity***

Stainless steel has a longer lifespan and generally requires less frequent replacement than aluminum, especially in high-traffic areas or regions with harsh weather conditions.

#### ***Low Maintenance***

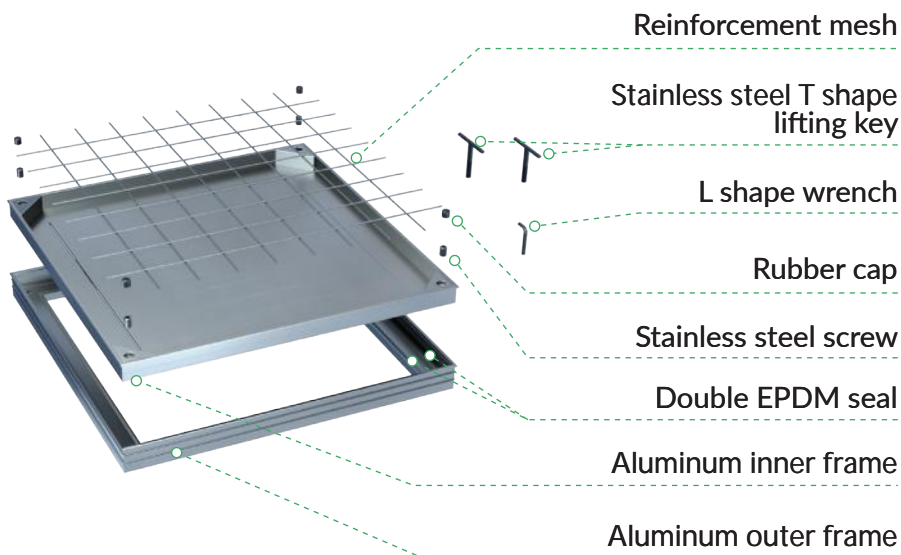
Stainless steel requires minimal maintenance due to its resistance to rust and corrosion. This can result in lower long-term maintenance costs compared to other materials.

#### ***Hygiene and Cleanliness***

Stainless steel's smooth and non-porous surface is easy to clean and maintain, making it a suitable choice for areas where hygiene is important, such as food processing facilities or healthcare settings.

Ultimately, the choice between aluminum and stainless steel manhole covers should be based on the specific requirements of the project, including factors such as anticipated load, corrosion potential, aesthetics, budget, and local environmental conditions. It's recommended to consult with engineering professionals to determine the most suitable material for your specific application.

# Aluminum manhole cover

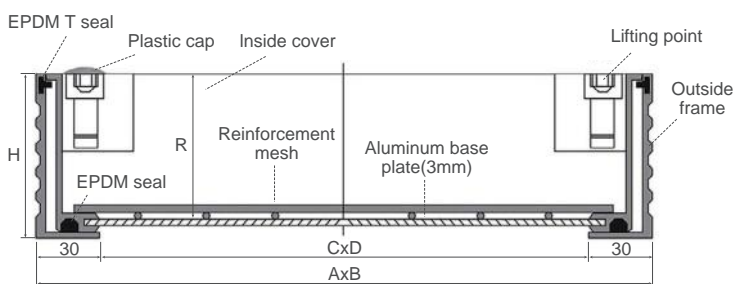
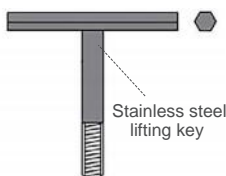
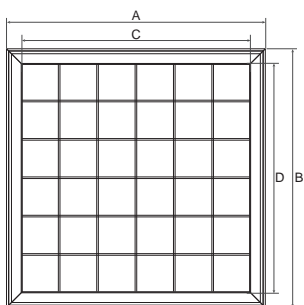


Aluminum manhole cover have many advantage over stainless manhole cover is some area, especially light loading areas. The bottom plate can be made of aluminum or galvanized steel.

Aluminum is much cheaper and lighter than stainless steel, this means they are more easy and fast to install, saving a lot labor, with the seal strip, they are more quite when walking on it, and aluminum cover are 100% recyclable.



Aluminum manhole cover



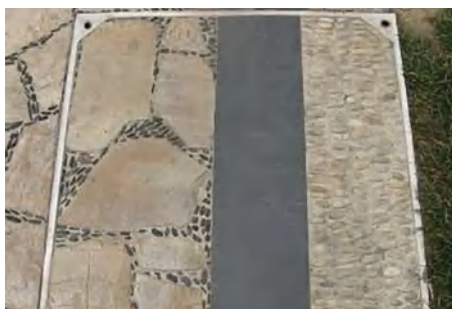
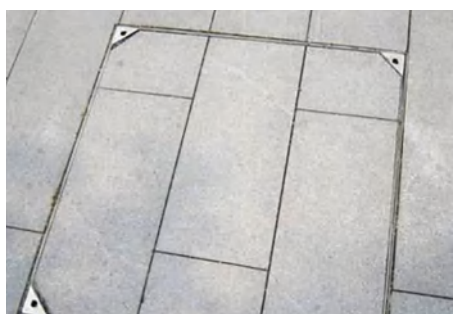
## Accessories



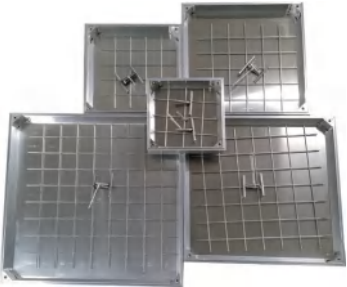
### ***Aluminium Manhole Cover Lifting Keys***

Pair of stainless steel lifting keys, primarily for use with Moonbay aluminium manhole covers.

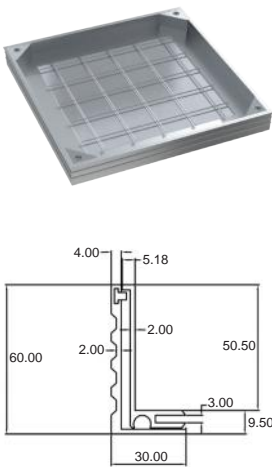
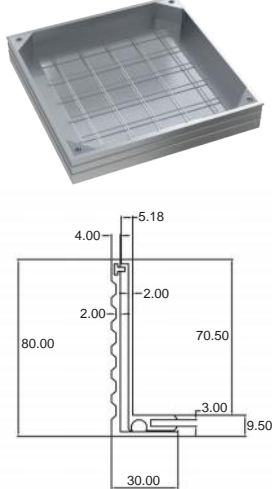
## Project



# Performance

Compare	Aluminum manhole cover
Material	Aluminum
Picture	
Loading	A15/B125
Forming process	Extrusion, cut, weld, polish
Size	Length and width easy to be customized, New height require new mold
Advantage	Cheap, Quiet(absorb car pass sound), neat surface, low maintenance, Non-Magnetic
Disadvantage	load up to B125, New height require new mold
Application	Indoor, sidewalk, public square, garden etc...

# Size

Picture				
Product	60mm aluminum manhole cover	80mm aluminum manhole cover		
Size(mm) / Weight(kg)	Size	Weight	Size	Weight
	300*300	2.5	300*300	2.85
	400*400	4	400*400	4.05
	500*500	5	500*500	5
	600*600	6.5	600*600	7.2
	700*700	8	700*700	9
	800*800	10	800*800	11
	900*900	12.5	900*900	13.2
	1000*1000	14.8	1000*1000	16
Inner height (mm)	52		72	



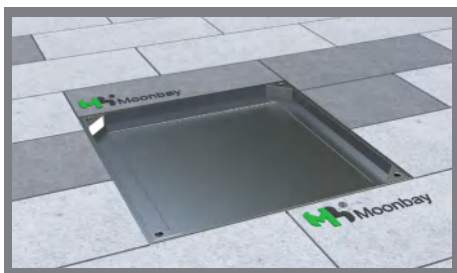
# Installation

Easy to follow guide to help you prep and install your recessed manhole cover.



## Step 1 *Mortar*

Make a recess in the ground so the cover is level. Mortar in to the correct height and to secure frame in place. Outer frame with double EPDM seal



## Step 2 *Clean*

Clean any stray residue and allow to set. Securely set the out frame



## Step 3 *Screed*

Pour and level the base concrete. Put the reinforcement mesh on base concrete. Continue pour and level the concrete until get appropriate height to install the tiles.



## Step 4 *Finish*

Finish the surface tile installation, carefully note surrounding grout lines and closely follow inside the tray for the best-looking result.

# Inspection

## Step 1

Take out the rubber cap



## Step 2

Unlock the stainless screw by galvanized L wrench

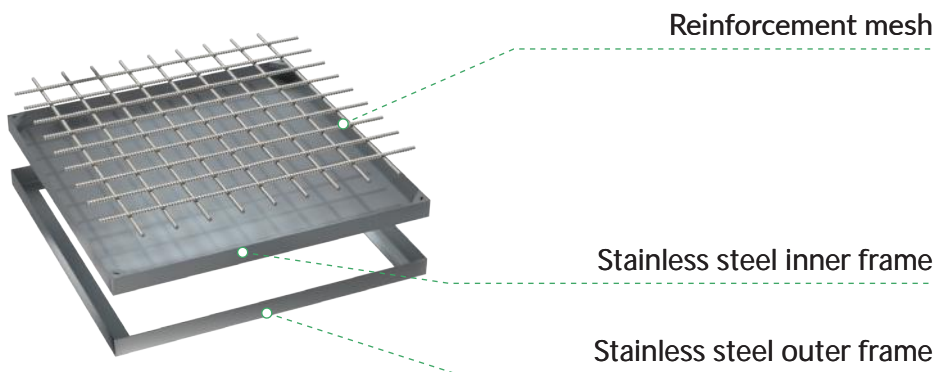


## Step 3

Lifting the inner frame by T shape key



## Stainless steel manhole cover



Stainless steel manhole covers are used in various project areas where their specific advantages. They perform excellent in some factor, such as good durability, Corrosion Resistance, Chemical Resistance, Low Maintenance, Longevity, Versatility, Fire Resistance, etc.

## Installation & Inspection



### Installation step 1

Make a recess in the ground so the cover is level. Mortar in to the correct height and to secure inner frame in place.



### Installation step 2

Clean any stray residue and allow to set. Securely set the outer frame.



### Installation step 3

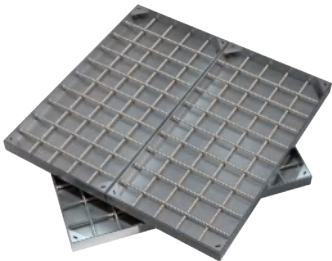
Pour and level the base concrete. Laying the tiles.



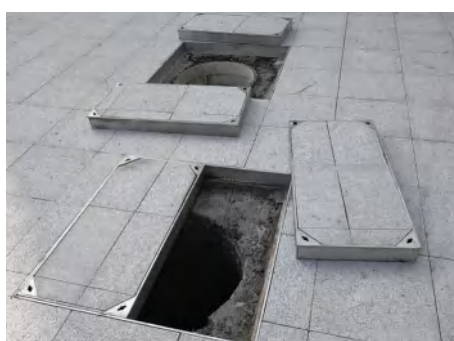
### Inspection step 4

Inspection: Lifting the inner frame by T shape key.

# Performance

Compare	Stainless steel manhole cover
Material	Stainless steel
Picture	
Loading	A15/B125/C250/D400
Forming process	Laser cut, weld, polish
Size	No mold required, easy to make any size and height
Advantage	High loading, neat surface, easy customized, low maintenance
Disadvantage	Not as cheap and quiet as aluminum manhole cover, With Magnetic
Application	Public square, parking lot, driveway, sidewalk,garden etc...

# Project





# Factory



# History



**2013**

Moonbay Company was established to provide customers with efficient and environmental friendly products



**2014**

Set up a domestic trade and foreign trade team, developed T-series Adjustable Pedestal, and won 9 national patents



**2015**

Develop A-series Adjustable Pedestal system

**2018**  
Develop K-series Adjustable Pedestal system



**2017**  
Develop Water Drainage system and all kinds of drain covers



**2016**  
The factory area was expanded to 8,000 square meters, and the number of employees exceeded 100



**2019**

Top one supplier of adjustable pedestal and drain channel in China



**2020**

Developed garden edge and obtained 18 national patents



**2021**

The number of employees exceeded 200, and the factory area was expanded to 13,000 square meters

**2023**

Develop aluminum products including aluminum joist beam, aluminum deck board, aluminum recessed access covers



**2022**

Buy 12800 sqm factory, upgrade to universal building material supplier





Profession



Honesty



Innovation

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