

CERTIFICATE OF DISTRIBUTORSHIP

To: MTV ENGINEERING TRADING CO., LTD

Dear Mr. Thang,

This is to certify that **MTV ENGINEERING TRADING CO., LTD** Address: A2-12 Cotec Quater, Nguyen Binh street, Phu Xuan ward, Nha Be district, HoChiMinh City, Viet Nam Tel.: +84 902 678 626 Email: mtvinfo@mtvco.com.vn Website: www.mtvco.com.vn

has been appointed the Official Distributor of the Ductile Cast Manhole Covers-IRON brand in Vietnam.

Dated August 5th 2022

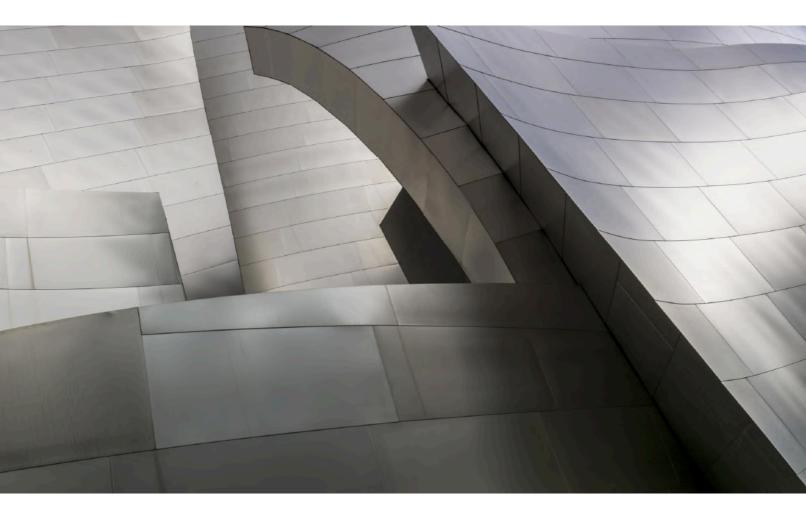
SIGNED BY KIM. KI HYUN PRESIDENT OF KINAM METAL

KINAM METAIL CO., LTD. Signature for and on behalf of Manufacturer



WE ARE ALWAYS PROACTIVE

Premium Manhole Cover







CONTENTS

ABOUT MANHOLE COVER

LOAD CLASSIFICATION MATERIAL; DUCTILE CAST IRON

MULTI-FUNCTION TYPES

CAM LOCK HINGED DOUBLE TRIANGLE COVERS(AOT) NOISELESS ELASTIC AND 4 BOLT LOCK DRAIN COVERS ANTI-ODOR BOLT LOCK HINGED DRAIN COVERS(400/900) TURN LOCK HIDDEN HINGED MANHOLE COVERS NOISELESS GAS DISCHARGE RISING LOCK HINGED COVERS

CIRCULAR TYPES

ELASTIC LOCK HINGED DRAIN COVERS BOLT LOCK HINGED SEWER COVERS CIRCULAR DRAIN COVERS CIRCULAR DOUBLE SEALED SEWER COVERS BOLT LOCK GASKETED WATERTIGHT COVERS BOLT LOCK HINGED SEWER COVERS

RECTANGULAR TYPES

ELASTIC LOCK HINGED DRAIN COVERS BOLT LOCK HINGED DRAIN COVERS BOLT LOCK HINGED SESWER COVERS ELASTIC LOCK HINGED HALF-V DRAIN COVERS NOISELESS BOLT LOCK TRENCH GRATES CAM LOCK QUADRUPLE TRIANGLE COVER DOUBLE SEALED SQUARE SEWER COVERS INFILL ACCESS COVER WITH HALF-V GRATES

KOREAN PUBLIC PROCUREMENT TYPES

DESIGN INFILL ACCESS COVERS NOISELESS DRAIN COVERS

KINAM SOLUTIONS

DOMESTIC OVERSEAS

COMPANY OVERVIEW

GREETINGS KINAM'S HISTORY FACILITIES & PRODUCTION PROCESS QUALITY MANAGEMENT SYSTEM CERTIFICATES & PATENTS ENGLAND

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ABOUT KINAM

Established in 1999, Kinam Metal, a Manufacturer of Ductile cast Iron Manhole Covers in South Korea, prioritizes customer satisfaction.

Kinam Metal has the highest manhole industry market share in South Korea and is exporting the highest quality products to approximately 10 countries including ASEAN and OCEANIA. To export, we have obtained certifications such as CE, European Standard (EN124), ISO (9001, 14001: 45001) and more with our proven quality.

We possess the greatest engineering capabilities and we have introduced more than 10 latest MCT and CNC precision machining equipment.

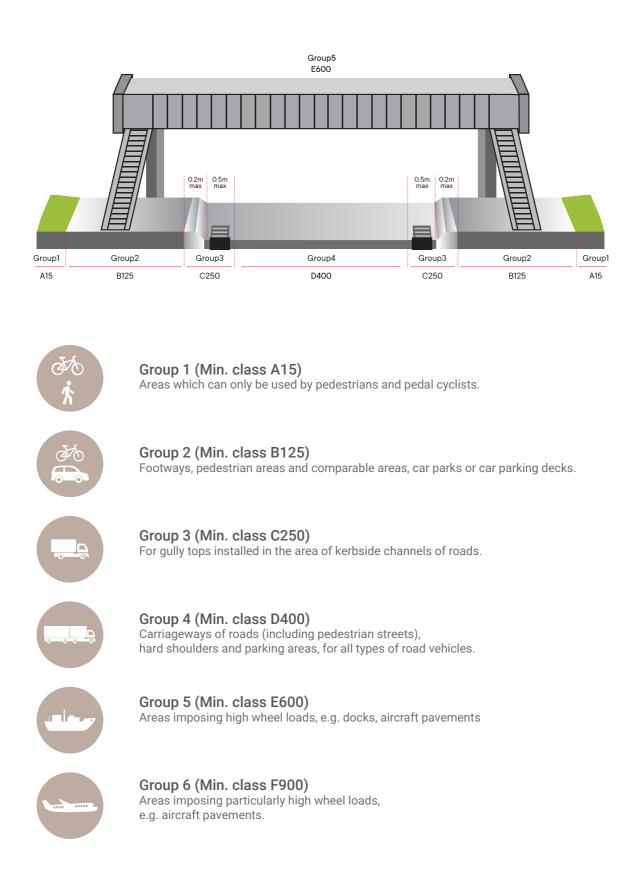
With these engineering capabilities as our foundation, we have over 50 different types of patents and more than 300 kinds of products. Furthermore, through aesthetically superior Manhole covers, we are creating new street cultures in South Korea.

Above all, Kinam Metal has been focusing on meeting the needs of our customers. We have overwhelmingly superior quality, reasonable cost, and dependable delivery, through which we promise to become your reliable partner.

MONGOLIA KINAM METAL THAILAND	UNITED STATES
VIETNAM PHILIPPINESS INDONESIA	
AUSTRALIA	

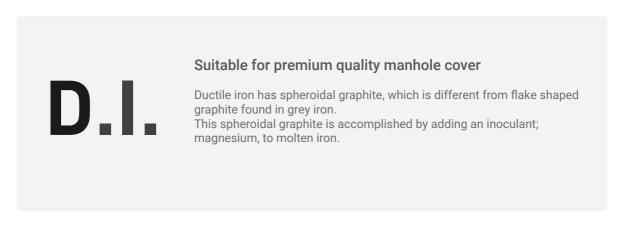
LOAD CLASSIFICATION ACCORDING TO EN124

The appropriate class of manhole top or gully top to be used depends upon the place of installation.



MATERIAL DUCTILE CAST IRON

As known as ductile cast iron, nodular cast iron, and spheroidal graphite iron.



Tougher and lighter the strong successor of Grey iron

Ductile iron manhole cover has 3 big advantages over grey iron cover.

- 1. Higher strength, but still lighter; Ductile Iron has approximately twice the strength of Cast Iron as determined by tensile, beam, ring bending, and bursting tests.
- 2. Follows the industry's most strict and up-to-date standards; The standards for ductile iron require higher performance.
- 3. Less likely to break; spheroidal form results in enhanced ductility, which prevents the breakage when overloaded.



Class	A15	B125	C250	D400	E600	F900
	15kN	125kN	250kN	400kN	600kN	900kN
Min. Loads	1.5ton	12.5ton	25ton	40ton	60ton	90ton
	3,300lb	28,100lb	56,200lb	90,000lb	135,000lb	202,0006lb
	Light Duty	Stadar	d Dudy		Heavy Duty	

KINAM FOCUS ON



- Precision machined
- Auto-moulding Lines

PRODUCT CODE

KINAM has a wide range of manhole covers

Easy / Convenient / Safe



- · We have a variety of security lock systems
- It's noiseless by inserting EPDM rubber or processing precision machining
- We provide multiple functions; Noiseless / Watertight / Gas-discharge / odor-prevention etc.
- · It's easy and convenient for workers to open and close the manhole covers by user-friendly hinge
- Many holes in the long oval shape make effective drainage possible
- One person can operate the manhole covers. It's cost-effective labor
- Safety bar minimizes hazard
- · It's safe for pedestrians by anti-slip patterns on the cover
- · We complete the manhole covers with stainless steel parts that prevent corrosion

CERTIFICATES & PATENTS



GOOD DESIGN & Certificate of Design Registration

Certificate of Design Registration 2011 Certificate of Design Registration 2005 Certificate of Design Registration 2007 Certificate of Design Registration 2008 Certificate of GOOD DESIGN Selection

Commendation & Certificate

Factory Registration Document Certificate of Commendation Product Certificate Confirmation Document of Direct Production Certificate of Quality Assurance Certificate of CreBiz QM

Certificate of Utility Model Registration

Opening device for Manhole Cover Grating for drainage Manhole Cover equipped with noise prevention device

Certificate of Patent

Locking device of Noiseless Manhole cover Watertight device of Manhole cover Manhole cover with odor-prevention plate Locking device of Manhole cover Manhole cover that cab relieve backflow and noise and how to operate it



CAM LOCK HINGED DOUBLE TRIANGLE COVERS(AOT)



NOISELESS ELASTIC AND 4 BOLT LOCK DRAIN COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-D6060H-ELBL	C250	600×600	760×760	60
KN-D8080H-ELBL	C250/D400	800×800	930×930	60



Hinge & Elastic Lock + Stainless Bolt Lock

Anti-theft and Security

- Prevent entire cover from flying off in the event of explosion or flood
- Non-corrosive and Long-lasting



ANTI-ODOR BOLT LOCK HINGED DRAIN COVERS(400)



ANTI-ODOR BOLT LOCK HINGED DRAIN COVERS (900)

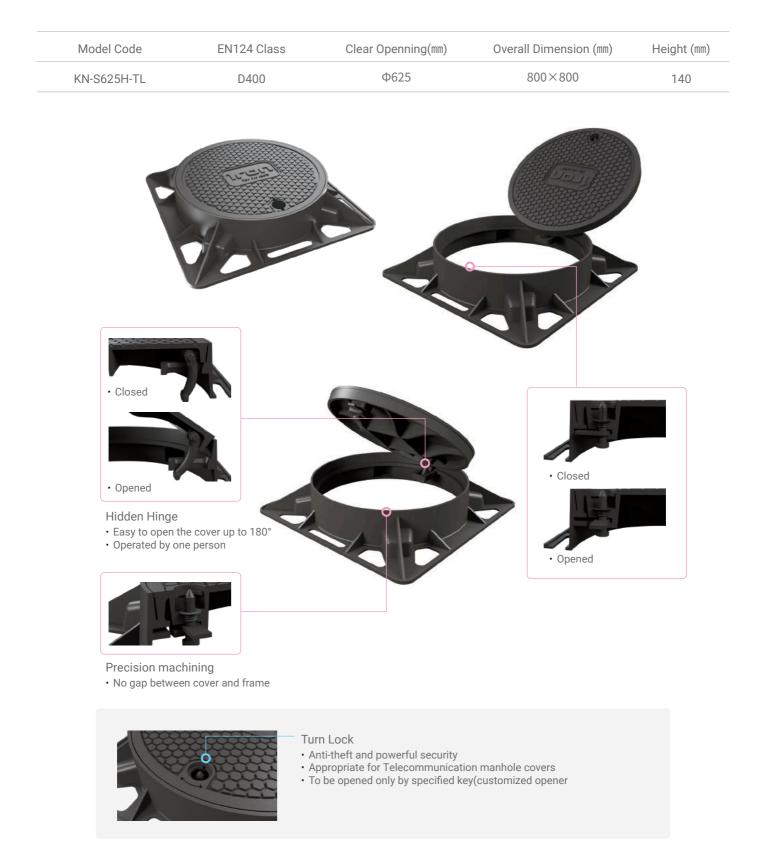
Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (m
KN-D9090H-BL	C250	800×800	1060×1050	75
			Stainless odor-prevention plate • Offensive odor control • Smooth drainage function	
		•		
	• The plate is united by 4	bolts with the frame so there is	s no gap between them	
	C.C. D.D.			
	• The	ision machining_Vertical Me plate is united by 9bolts vent rocking movement betwee fic	CT en frame and plate exposed to vehicle	

Custom logo or letteringColor painting

Opener



TURN LOCK HIDDEN HINGED MANHOLE COVERS



Custom logo or lettering

Color painting

Customized Opener



NOISELESS GAS DISCHARGE RISING LOCK HINGED COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-S9060H-RL	B125	900×600	1070×775	75
KN-S9060H-RL	D400	900×600	1070×775	115



Gas discharge valve with sound of danger sign by plastic squeaker

- Prevent explosion by internal pressure such as methane gas inside the sewage manhole and gas leakage inside the gas manhole
- Putting out a sound of danger sign when gas leaking
- Prevent mosquito breeding



- Custom logo or lettering
- Color painting

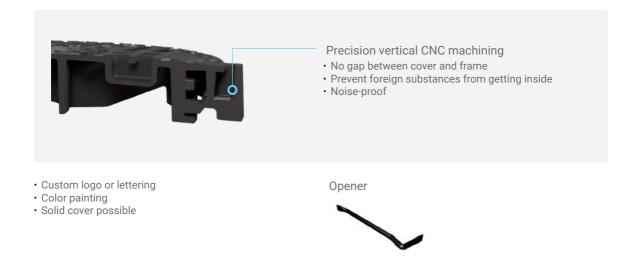




ELASTIC LOCK HINGED DRAIN COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Depth (mm)
KN-D600H-EL	C250	Ф600	Φ735	70
KN-D800H-EL	C250	Ф800	Ф930	70





BOLT LOCK HINGED SEWER COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-S600H-BL	C250	ф600	ф810	100
KN-D800H-BL	C250/D400	ф800	ф930	60



KINAM MANHOLE | 15

CIRCULAR DRAIN COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-D770	C250	Φ770	Ф900	150
KN-S770	C250	Φ770	Ф900	150
KN-S600	B125	ф600	690×690	50



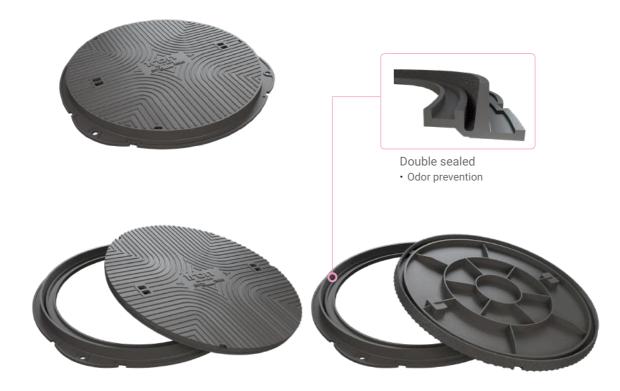




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CIRCULAR DOUBLE SEALED SEWER COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-S600DS	B125	ф600	φ877	60
KN-S800DS	B125/C250	ф800	φ1077	60
KN-S1000DS	C250	ф1000	φ1220	50





Precision machining

- Completely Noiseless
 Prevent foreign substances from getting inside
 No gap between cover and frame
- Cover is 5mm away from the frame through taper precision vertical CNC machining

- Custom logo or letteringColor painting

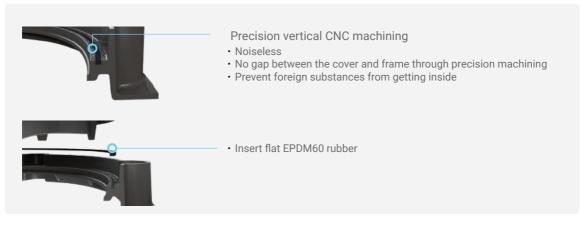
Opener



BOLT LOCK GASKETED WATERTIGHT COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-S600WT-3BL	C250	Ф600	Ф804	100
KN-S800WT-5BL	D400	Ф800	Ф1004	100





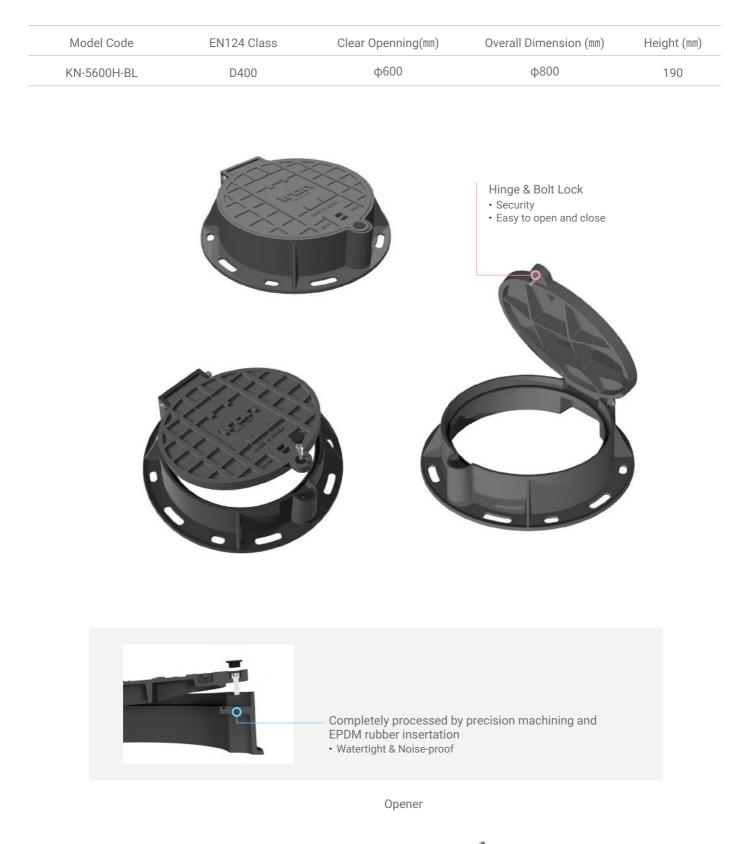
- Custom logo or lettering
- Color painting

Opener





BOLT LOCK HINGED SEWER COVERS





ELASTIC LOCK HINGED DRAIN COVERS

EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
C250	350×500	350×500	60
C250	300×700	460×770	60
C250	400×400	530×560	60
C250/D400	600×600	760×765	60
D400	725×625	865×765	60
C250	800×800	930×950	60
C250	800×800	930×930	60
	C250 C250 C250 C250/D400 D400 C250	C250 350×500 C250 300×700 C250 400×400 C250/D400 600×600 D400 725×625 C250 800×800	C250 350×500 350×500 C250 300×700 460×770 C250 400×400 530×560 C250/D400 600×600 760×765 D400 725×625 865×765 C250 800×800 930×950



BOLT LOCK HINGED DRAIN COVERS

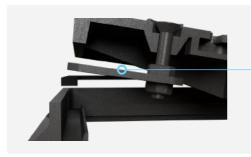
Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-D6060H-BL	C250/D400	600×600	750×760	75
KN-D8080H-BL	C250/D400	800×800	960×954	75
KN-D9090H-BL	C250	900×900	1060×1000	75



BOLT LOCK HINGED SEWER COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-S3333H-BL	B125	336×336	400×400	45
KN-S4848H-BL	B125	488×488	600×600	50





EPDM Rubber insert • Noise-proof

Custom logo or letteringColor painting

Opener



ELASTIC LOCK HINGED HALF-V DRAIN COVERS

EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
			3 ()
C250	760×760	600×600	100
C250	760×760	600×600	150
C250	740×740	600×600	75
C250	980×1050	800×800	100
C250	420×490	560×630	75
	C250 C250 C250	C250 760×760 C250 740×740 C250 980×1050	C250 760×760 600×600 C250 740×740 600×600 C250 980×1050 800×800



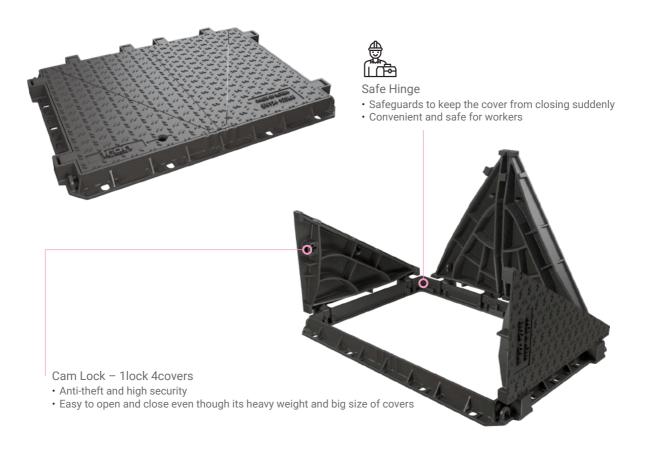
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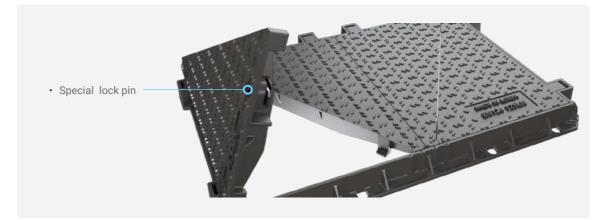
NOISELESS BOLT LOCK TRENCH GRATES



CAM LOCK QUADRUPLE TRIANGLE COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-S10670QT-CL	B125	1060×700	1250×870	80
KN-S10670QT-CL	D400	1060×700	1250×870	80





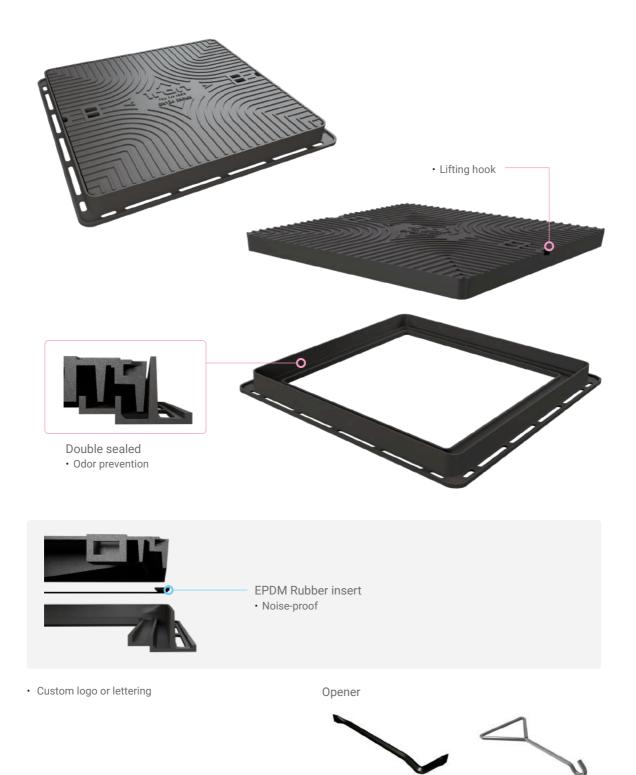
Custom logo or lettering

Opener



DOUBLE SEALED SQUARE SEWER COVERS

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-S6060DS	C250	600×600	800×800	60
KN-S8080DS	C250	800×800	1000×1000	60
KN-S100100DS	C250	1000×1000	1200×1200	60



INFILL ACCESS COVERS WITH HALF-V GRATES

Model Code	EN124 Class	Clear Openning(mm)	Overall Dimension (mm)	Height (mm)
KN-VG6060IF	C250	600×600	760×760	100
KN-VG8080IF	C250/D400	800×800	960×970	100



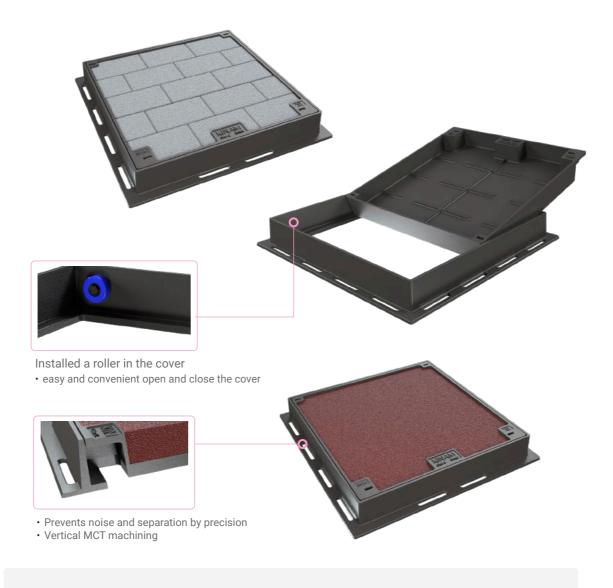
Application

Custom lettering

Opener

DESIGN INFILL ACCESS COVERS

SIZE	400×400 500×500 600×600 700×700 800×800 840×600 1120×620
MATERIAL	GCD500-7
STATIC LOAD	200kN ~



Application

• Harmonizes with urban landscape using the same material inside the cover and outside the cover



NOISELESS DRAIN COVERS

SIZE	400×1000×50 500×1000×50 600×1000×50
MATERIAL	GCD500-7
STATIC LOAD	200kN ~ 450kN



DESIGN INFILL ACCESS COVERS



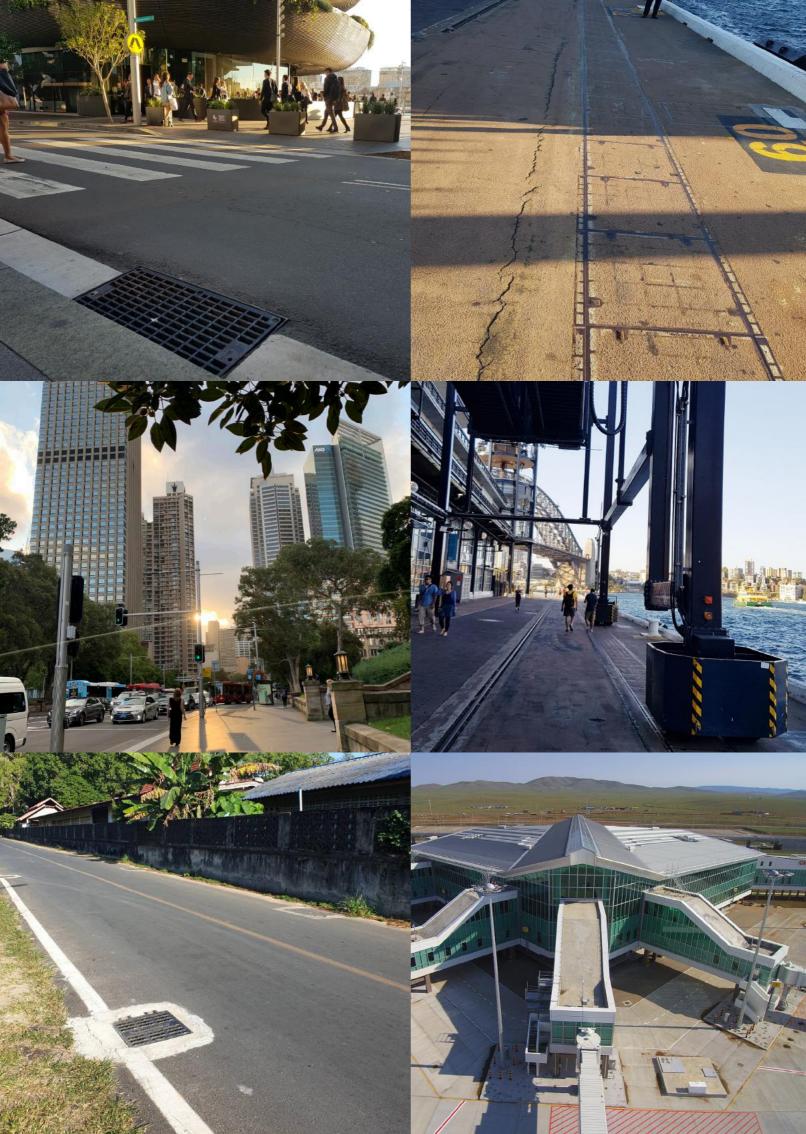














LEADING THE WORLD BEYOND KOREA

Kinam Metal is a leading company in Korean Government Procurement in the field of manhole covers since 1999.

We always try to meet customer's needs as much as possible to ensure the customer's long –term benefits. Also, we contribute to the solution of manhole covers and we do OEM as per customer's request. Buying from us, the OEM, gives you access to a wide variety of technical and engineering support. Our knowledgeable and experienced staff will be pleased to help you with all your needs.





Kinam has a wide range of products. We've been doing our best to research and develop new manhole cover with various functions such as noiseless, anti-theft, locking device, watertight, and odor-prevention. It will bring you a wide choice.

All processes are managed by the system R&D (Research and Development) and capital investment for the production of perfect products

We are also doing our best to research and develop new products.

What does an overseas sales team of Kinam do?

Kinam's overseas sales team are PROACTIVE. We don't hesitate to visit our customers or potential customers to solve a problem or suggest new ideas.

Therefore, please do not hesitate to contact us if you have any questions or concerns. You are always welcome.

E. sales@kinam.co.kr T. +82 53 815 6114 W. www.kinam.co.kr/en/ Youtube. Kinammetal



KINAM'S HISTORY

1999

10. Established Kinam Metal

2003

03. Certified ISO9001:2000 Quality Management System 05. The First Export to the United States

2006

03. Acquired as a Q Mark [Quality Assurance Company]

2008

- 01. Converted to Corporation as Kinam Metal Co., Ltd.
- 11. Awarded Industrial Design Exhibition Grand-Prix by Ministry of Trade, Industry and Energy

2009

06. Acquired GD Mark [Good Design]

2010

01. Moved the factory [Site:9,544M/C | Annual production capacity: 9,000 tons]

2011

- 02. Certified Main-Biz by Ministry of SMEs and Startups [No.110301-00039]
- 03. Established R&D Center
- 05. Registered as a Venture Company
- 12. Certified Product Performance by the Ministry of SMEs and Startups [Locking Manhole Covers & Infill Access Coverd]

2012

- 04. Expanded Auto Molding Line (M/C)
- 06. Certified Korean Government Procurement Excellent Product
- [Serrated Lock Manhole Covers applied with Elastic Lock] 08. Certified Korean Government Procurement
 - Excellent Product [Infill Access Manhole Covers with roller]

2013

01. Acquired CE Mark Certification [Circular and Rectangular Noiseless Lock Manhole Covers]

2014

- 02. Certified Korean Government Procurement Excellent Product [Colored Infill Access Manhole Covers]
- 09. Acquired BS:EN124 Certification [Square/Rectangular Manhole Cover]
- 09. Signed MOU Agreement with "M" Company in Thailand
- 09. The First Export to Thailand
- Designated by the Public Procurement Service as an Excellent Company for Overseas Public Procurement Market [PQ Mark]
- Awarded Commendation for New Growth Company Participated in 2014 Big 5 Exhibition at World Trade Center in Dubai
- 12. Awarded Korean Trade Day Commendation
- 12. Acquired 2014 Seoul Good Public Design(SGPD)

2015

- 11. Designated as a Pride Product of Gyeongsanbuk-do Province
- 12. Designated as a Promising Export S&M Company

2016

- 01. Acquired BS:EN124 Certification [Circular Manhole Covers]
- 02. Certified G-Pass Corporate
- 03. Certified INNO-BIZ Certification of Technology Innovation Type SME
- 04. Certificate of Designation as a Leader in Water Industry

2017

12. Obtained Performance Certification of Ministry of SMEs and Startups [Rising Lock Manhole Covers]

2018

- 06. Signed MOU Agreement with "T" Company in Vietnam
- 06. The First Export to Vietnam
- 11. Named New Growth Company by Province of Gyeongsangbuk-do

2019

- 01. Acquired 2019 Seoul Good Public Design 2019 (SGPD)
- 02. Designated as Root-Tech Specialized Company
- 10. Introduced an Automated Facility Assembly Robot
- 12. Awarded One-Milion-Dollar Export Monument Award on the 56th Korean Trade Day
- 12. Commendation from the Governor of Gyeongsangbuk-do on the 56th Korean Trade Day

2020

01. ISO 4500:2018 Occupational Health and Safety Assessment Series

FACILITIES & PRODUCTION PROCESS

Mass production / Error-free accuracy / Quality Management



Auto moulding line 1



Auto moulding line 2







Vertical CNC turning center (LV1100RM) Vertical MCT machining center (1260M)

Auto-assembling Precision machine processing





ABB Auto loading assembly robot



QUALITY MANAGEMENT SYSTEM

Possible to mass production / unfailing precision / thorough quality control





Spectrometer



Metal ingredient analyzer



Inspection

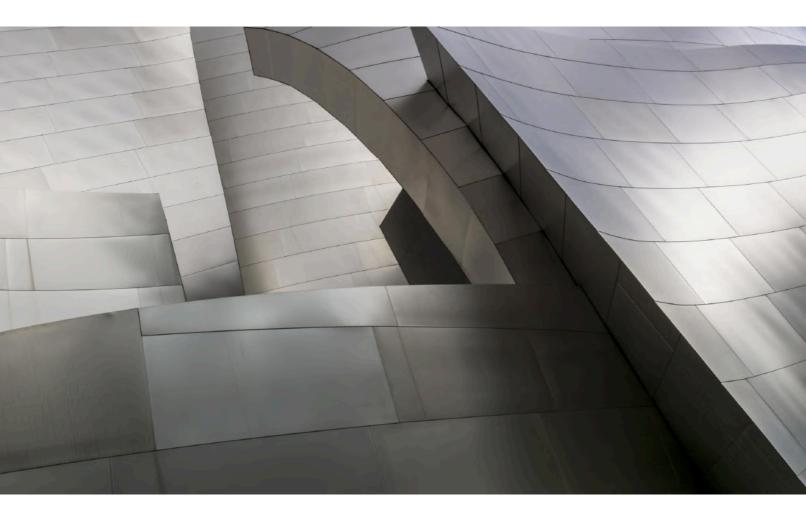


Static load test



WE ARE ALWAYS PROACTIVE

Premium Manhole Cover



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