

Inspection access &  
surface water drainage



**Ports and Airports**

# Access Covers

## Who is Gatic?

Gatic's involvement with gas air-tight inspection covers spans more than 80 years. In fact, one of the earliest covers produced by the company (then known as Dover Engineering) is still in service at a Shell garage in Malta, where it was first installed in 1928.

## Access Covers

Modern-day covers look superficially very similar to this early version but in reality, a huge amount of development, research and innovation has been invested over the years to enable today's range to meet the exacting requirements of major ports and airports throughout the world.

Gatic covers are cast to demanding specifications and held to tight tolerances that guarantee the gas and air-tight fit, upon which the company's reputation is built. Whether single, duct or multi-span, covers and their frames are built in sets and finely machined to come together in a precise, pre-determined order to achieve their seal. Appropriately installed, they can be expected to perform as intended for many decades if not indefinitely, with minimal servicing.

Today's Gatic covers are designed to deal with the harshest environments and to cope effectively with an anticipated, ever-increasing vehicle weight and traffic volume well into the future. Their exact fit discourages the development of rock and subsequent wear.

## Engineering expertise

Gatic makes a point of supplying all the help and technical support needed to ensure that each installation performs to its design potential. To this end, our design engineers are always available to discuss all technical aspects and offer practical advice at any stage of the project.

### Loading Group F900

Wheel load in excess of 20 tonne  
Test Load 900 kN For areas imposing particularly high wheel loads, aircraft pavements, taxiways of civil airports and dockyards where individual wheel loadings exceed 20 tonnes.



Original 1928 Gatic cover still in service



Decades of development mean Gatic covers are still the best.

# Slotdrain

## Surface water drainage

The Slotdrain concept emerged as a result of the worldwide success of Gatic covers. Many of the locations served by Gatic inspection covers were in parts of the world subject to extreme and often rapidly changing climatic conditions.

The danger of adverse weather causing flashfloods and bringing these vital facilities to a standstill was very real, and the requirement for a system capable of handling huge quantities of surface water in a short space of time was obvious. Slotdrain was developed as a safe, robust yet unobtrusive way of solving this problem.

Slotdrain's unique profile enables it to efficiently deal with large or small amounts of water with equal ease and the system's modular design means it's relatively simple to install and maintain on site. A single high-capacity slot replaces the gratings of more conventional systems and the v-shaped cross-section of the channel maximises flow, whatever the level, encouraging a high degree of self-cleaning.



## Worldwide recognition

Today, ample evidence of the universal success and wide acceptance of Gatic Slotdrain can be seen from the number of ports and airports, all over the world, that rely on its capabilities. Some of them are listed on pages 8 and 9.

## Special advice

Most of Gatic's installations around the world have been in place and operating successfully for many years. Our design engineers and technical advisors have a vast fund of knowledge and experience on which to draw. Whether with inspection facilities or surface drainage systems, our engineering teams are keen to rise to the challenge and help you steer your project through to the outcome you desire.



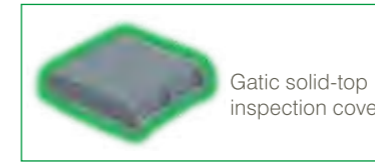
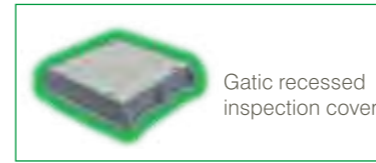
Decades of development mean Gatic covers are still the best.



Integrated access cover and surface water management systems for ports and airports



Key to symbols

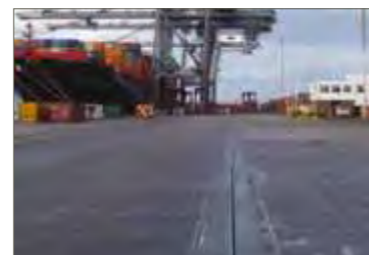


# A world of experience in Ports and Airports from Tilbury to Tripoli and Heathrow to Hamilton NZ

Gatic UltraSlot has been in use at Southampton Container Terminal for many years. Like the Gatic Inspection Covers also installed at this location, it survives a daily pummelling from a fleet of heavily-loaded container handling trucks rushing to and from ships bound for the far corners of the globe.

In times of adverse weather conditions, Gatic keeps the site safe and capable of operating at undiminished capacity.

Gatic UltraSlot is firmly established as the standard specification for new and refurbishment projects at similar facilities around the world.



Gatic Covers and Slotdrain have been used at Heathrow Airport for many years so it was no surprise when UltraSlot was chosen as the tried and tested drainage solution for all external pavement areas at the new Terminal 5.

Designers incorporated a large number of Heavy Duty Outlet Boxes into the scheme. Fitted with Gatic F900 gratings, these are a quick and highly cost-effective alternative to conventional manholes.

The T5 project is a recent addition to the long list of Civil and Military Airports that have found Gatic products to be the perfect answer to their access and drainage requirements.



# Infrastructure projects at ports and airports worldwide

Gatic Access Covers and Slotdrain systems have been used on many ports, airports and military bases around the world.

## International Civil Airports

### Europe United Kingdom

- 44 Heathrow (All Terminals)
- 44 Gatwick
- 44 Edinburgh
- 44 Birmingham
- 44 East Midlands
- 44 Jersey
- 44 London City
- 44 Luton
- 44 Newcastle
- 44 Stornaway
- 44 Robin Hood Airport
- 44 Bournemouth
- 44 Guernsey
- 44 Manchester
- 44 Stansted
- 44 Glasgow
- 44 Bristol
- 44 Farnborough
- 44 Leeds/Bradford
- 44 Liverpool
- 44 Manston
- 44 Norwich
- 44 Lydd Airport
- 44 Londonderry (Derry) Airport, Northern Ireland
- 44 Southampton
- 44 Aberdeen
- 44 Southend

### Europe Spain

- 44 La Coruna Airport
- 44 Fuerteventura Airport, Canary Islands
- 4 Monflorite (Huesca) Airport
- 4 Sevilla Airport
- 4 Burgos Airport
- 4 Alicante Airport
- 4 Tenerife North Airport
- 4 Girona Airport
- 4 Reus Airport
- 4 Valencia Airport (Various Phases)
- 4 Vitoria Airport
- 4 Barcelona Airport
- 44 Murcia (Corvera) International Airport
- 4 Malaga Airport
- 4 Palma, Majorca

### Europe Sweden

- 44 Arlanda Airport, Stockholm (Various Phases)
- 44 Executive Jet Apron, SAAB, Sweden
- 44 Skavsta Airport
- 44 Kiruna Airport

### Europe Other Countries

- 4 Shonefeld, Berlin, Germany
- 44 Athens, Greece
- 44 Paphos (Pafos) Airport, Cyprus
- 4 Hamburg, Germany
- 4 Oporto, Portugal
- 4 Dublin, Eire
- 4 Shannon, Eire
- 4 Tallin Airport, Estonia
- 4 Charles De Gaulle, Paris (A380 Terminal)
- 4 Larnaca Airport, Cyprus
- 44 Lisbon Airport, Portugal
- 4 Dusseldorf, Germany
- 4 Joao Paulo II, Azores Islands
- 4 Orly, France

### Middle East

- 44 Bahrain International Airport (Various Phases)
- 44 New Doha International Airport, Qatar
- 44 Sharjah Airport, UAE
- 44 Royal Airport Terminal, Bahrain
- 44 Al Duqm Airport, Oman
- 4 Abu Dhabi, UAE
- 4 Baghdad, Iraq
- 4 Sohar Airport, Oman
- 4 Al Ain, UAE
- 44 Jet Aviation Facility, Kuwait Airport
- 44 Sakhir Airbase, Bahrain
- 4 Sir Bani Yas Airport, UAE
- 44 Al Maktoum (Jebel Ali) Airport, UAE
- 44 Dubai Promenade Airport, UAE
- 4 Dubai, UAE
- 4 Doha, Qatar
- 4 Fujairah Airport, UAE
- 4 Muscat Airport, Oman
- 4 Zirku Airport, UAE
- 44 Madinah Airport, Saudi Arabia

### New Zealand & Australia

- 44 Auckland International Airport
- 4 Christchurch Airport
- 44 Wellington Airport
- 4 Sydney Airport
- 4 Edinburgh RAAF, Australia
- 4 Rotorua Airport, New Zealand
- 4 Hamilton Airport
- 4 Blenheim Airport
- 4 Launceston Airport, Tasmania
- 4 Canberra Airport, Australia
- 4 Perth Airport

### Asia

- 44 Chek Lap Kok, Hong Kong
- 44 Kandahar Airport, Afghanistan
- 4 Changi, Singapore
- 4 Kota Kinabalu, Malaysia
- 4 Macau
- 4 Hyderabad Airport, India
- 4 Mumbai Airport, India
- 44 Ashgabat, Turkmenistan
- 4 Kuala Lumpur, Malaysia
- 4 Bangkok, Thailand



- 4 Gatic Slotdrain project
- 4 Gatic Access Covers project
- 44 Projects that use both Gatic Access Covers and Slotdrain systems



- 4 Brunei
- 4 Bangalore Airport, India
- 4 Delhi Airport, India
- 4 Seletar, Singapore
- 44 Mactan-Cebu Airport, Philippines

### Africa

- 44 OR Tambo Airport, Johannesburg, South Africa
- 4 Alexandria Airport, Epypt
- 4 Tripoli, Libya
- 44 Tamale Airport, Ghana
- 4 Kigali Airport, Rwanda
- 4 Harare, Zimbabwe
- 4 Lilongwe, Malawi
- 4 Zanzibar, East Africa
- 4 Maun Airport, Botswana
- 44 Kotoka International Airport, Ghana
- 4 Nairobi, Kenya
- 4 Gaborone, Botswana
- 4 Benghazi, Libya
- 4 Cairo Airport, Egypt
- 4 Hurghada Airport, Egypt
- 4 Algiers Airport
- 44 Dar Es Salaam Airport, Tanzania

### Other International Markets

- 44 Podgorica Airport, Serbia and Montenegro
- 44 Anguilla Airport, Virgin Islands
- 44 Lynden Pindling International Airport, Bahamas St. Maarten
- 44 RL Bradshaw Airport, St Kitts
- 44 Majuro Airport, Marshall Islands
- 44 SSR International Airport, Mauritius
- 4 Tocumen Airport, Panama
- 4 Ottawa Airport, Canada
- 4 St Helena Airport
- 44 Mauritius Airport

### United States

- 4 McCarran Airport, Las Vegas
- 4 Hickam Air Force Base, Hawaii
- 4 San Francisco Airport
- 4 Hartsfield-Jackson Atlanta Airport
- 4 Fort Lauderdale Airport
- 4 Miami Airport
- 4 Los Angeles Airport

### Military Airbases

#### Europe United Kingdom

- 44 Coningsby
- 44 Boscombe Down
- 44 Kinloss
- 44 Lossiemouth
- 44 Marham
- 44 Mildenhall
- 44 Waddington
- 44 Cosford
- 44 Brize Norton
- 44 Lakenheath
- 44 Wittering
- 44 Middle Wallop

- 44 Valley
- 44 Cardiff RAF St Athan, Wales
- 4 RAF Airbase, Gibraltar

### Other Projects

- 4 Hickam Air Force Base, USA Helicopter Apron,
- 4 Ohakea Airbase, NZ
- 44 Akrotiri Airbase, Cyprus
- 44 Sakhir Airbase, Bahrain
- 44 Udeid, Qatar
- 4 RAF Airbase, Falkland Islands
- 4 RAF Airbase, Ascension Islands
- 4 Minhad Airbase, UAE

### International Ports

#### Europe United Kingdom

- 44 London Gateway Port
- 44 Southampton Container Port
- 44 Birkenhead Ro-Ro Ferry Station
- 44 Felixstowe Port Project
- 44 Vosper Thornycroft Ship Yard, Portsmouth
- 4 Port of Aberdeen
- 4 HMNB Portsmouth
- 4 Trinity Terminal, Felixstowe
- 4 HMNB Coulport
- 44 Immingham Docks
- 44 Tilbury Docks
- 44 Severn Bridge Project
- 44 Associated British Ports, Port of Tyne
- 4 HMNB Devonport
- 4 Port of Liverpool
- 4 HMNB Faslane

#### Europe Other Countries

- 4 Mallorca Port, Palmas Mallorca, Spain
- 44 Container Terminal Tercat, Barcelona Port, Spain
- 4 Container Terminal TCB, Barcelona Port, Spain
- 44 Toll Plaza, Dublin Port
- 4 Mersin Port, Turkey
- 44 Södertälje Harbour, Sweden
- 4 Dublin Port
- 4 Limassol Port, Cyprus
- 4 Mahon Port, Menorca, Spain
- 4 El Ferrol Port, Galicia, Spain (various phases)
- 4 Marina in Vilanova Port, Barcelona, Spain
- 44 Sundsvall Harbour, Sweden
- 44 Västerås Harbour, Sweden
- 4 Gibraltar Port
- 4 Ibiza Port

### Middle East

- 44 Port Facility, Qatar Petroleum, Ras Laffan, Qatar
- 44 Nakilat Ship Repair Yard, Ras Laffan, Qatar

- 44 Erhama Bin Jaber Al Jalahma Shipyard, Qatar
- 4 Marina, Yas Island, UAE
- 4 Aden Port, Yemen
- 4 Dammam, Saudi Arabia
- 4 Doha, Qatar
- 4 Dubai, UAE
- 4 Jeddah, Saudi Arabia
- 4 Jubail, Saudi Arabia
- 4 Khor Fakkan, UAE
- 4 Kuwait
- 4 Sohar Port, Oman
- 4 Jebel Ali Port, UAE

### New Zealand & Australia

- 4 Port Taranaki, New Plymouth, N.Z
- 4 Sydney Container Terminal
- 4 Coffs Harbour, Australia

### Africa

- 4 Dar Es Salaam, Tanzania
- 4 Mombasa, Kenya
- 4 Tripoli, Libya
- 4 Misurata, Libya
- 4 Tema, Ghana
- 4 East Port Said, Egypt
- 4 Maputo Port, Mozambique
- 4 Nacala Port, Mozambique

### Asia

- 4 River Trade Terminal, Hong Kong
- 4 Kuala Lumpur, Malaysia
- 4 Changi Naval Base, Singapore
- 4 Tanjung Pelepas, Malaysia
- 4 Saigon Container Terminal, Vietnam
- 4 International Cruise Terminal, Singapore
- 4 Terminal 9, Hong Kong
- 4 Kuching, Malaysia
- 4 Sapangar Bay, Malaysia
- 4 Gujarat Pipavav Port, India
- 44 JNPT Mumbai, India
- 4 Kai Tak Cruise Terminal, Hong Kong
- 4 Karachi Port, Pakistan

### United States

- 4 Louisiana Avenue Port of New Orleans
- 4 Port Newark

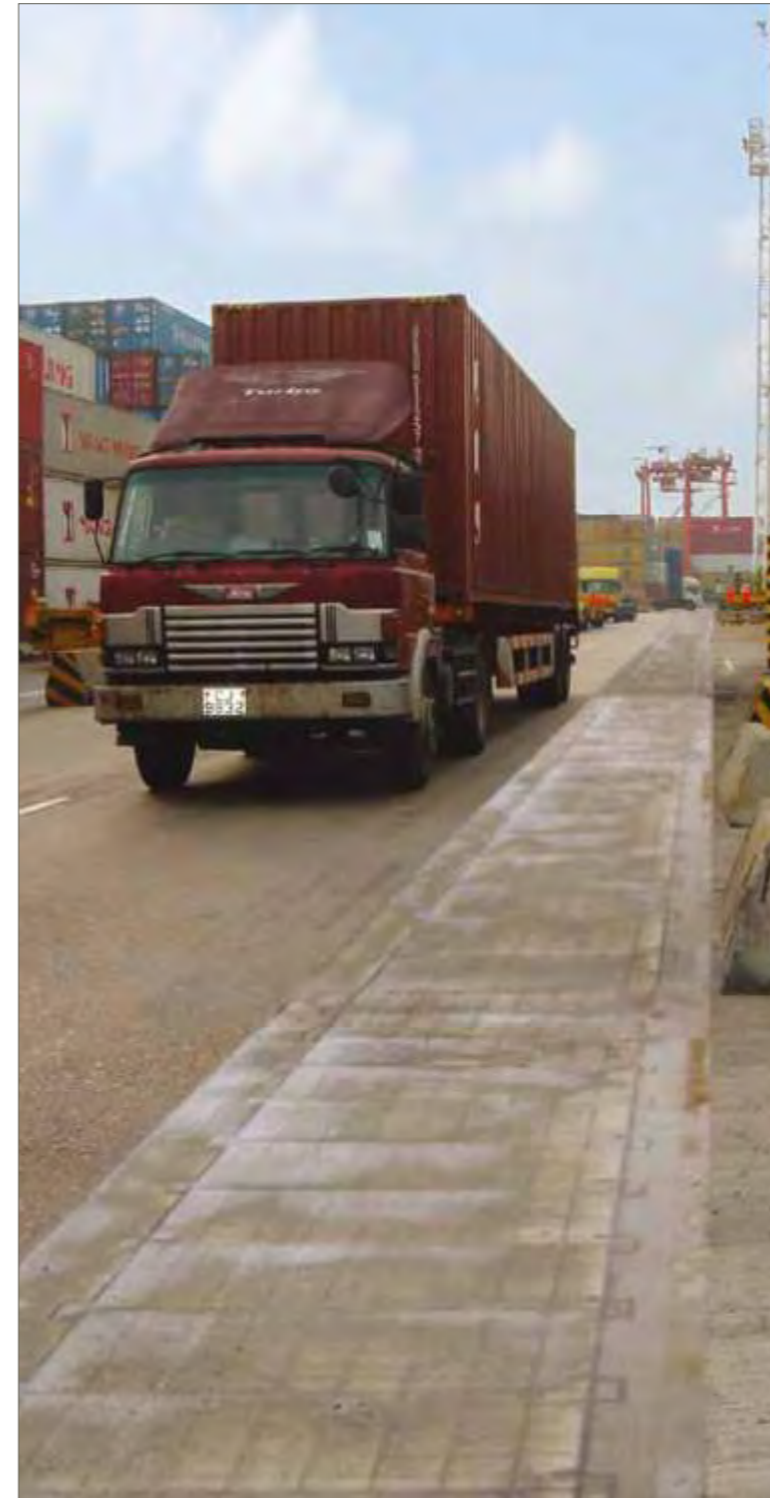
### Other International Markets

- 4 Bridgetown, Barbados
- 4 Seychelles
- 44 Moin Port, Costa Rica
- 4 Port Quetzal, Guatemala
- 4 Port Guaira, Venezuela
- 4 Port of Callao, Peru
- 4 Port Louis, Mauritius



Secure inspection access wherever its needed

# GATIC® Access Covers



Constant movement of containers and heavy loads in and around ports and storage facilities puts a tremendous load on surface components, such as access covers. Anything that doesn't fit exactly will soon develop rock, which will eventually lead to failure.

Gatic's renowned attention to detail means that our covers have been proven to stand the test of time in these environments.

All Gatic Access Covers for ports and airports are manufactured to Loading Group specification F900.



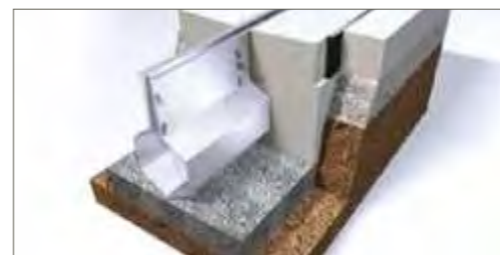
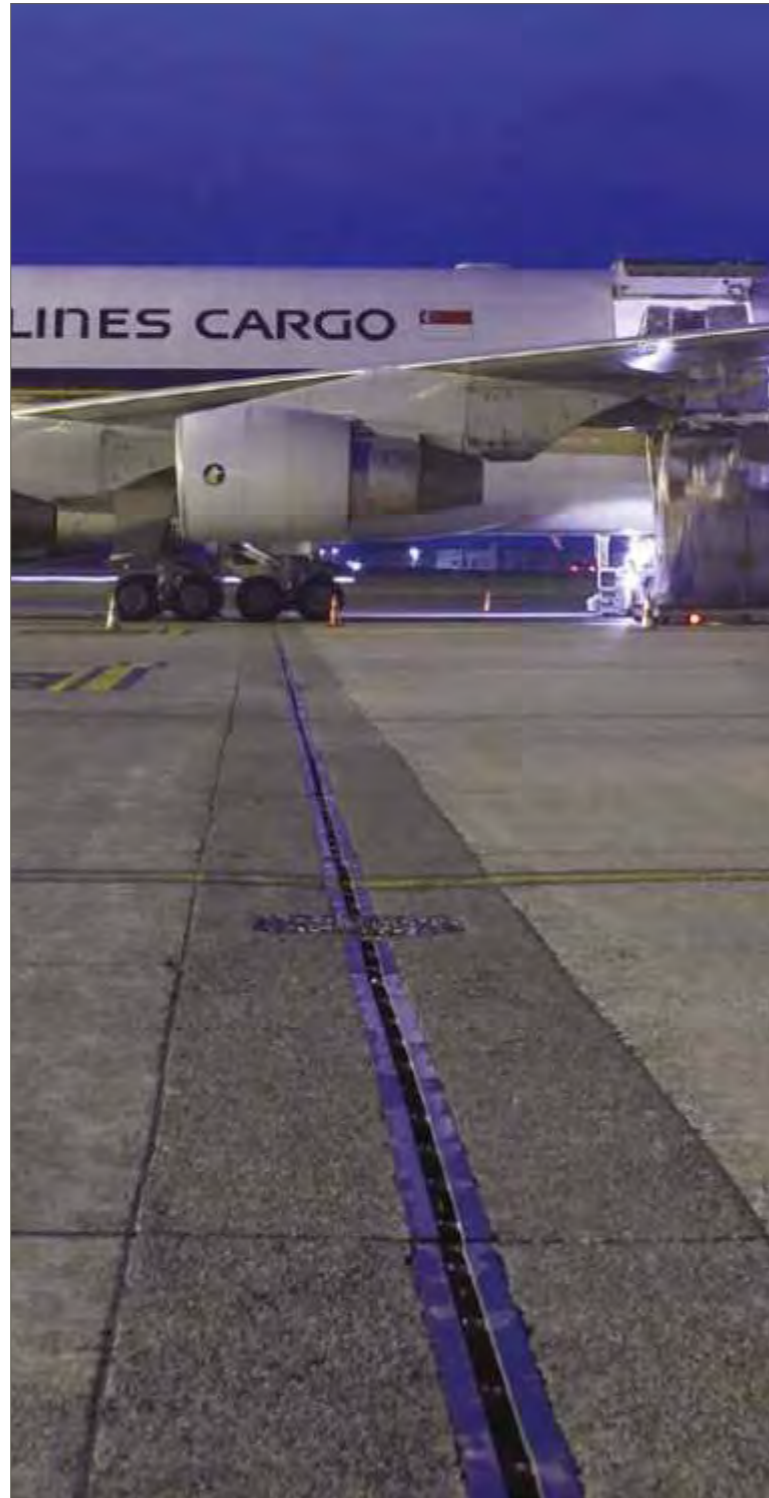
# Control of surface water drainage whatever the environment

The seemingly endless paved areas of ports and airports can collect huge volumes of surface water in a very short time.

Exposed locations, often in areas subject to wild extremes of weather, such as monsoons, can throw up unusual challenges.

Fortunately, Gatic has some unusual answers. UltraSlot systems are designed specifically to tame such conditions as these.

Proven under F900 to easily withstand slow moving wheeled loads in excess of 20 tonnes, their unique V channel profile means they can maintain peak efficiency under all conditions.



# GATIC® Slotdrain





# GATIC®

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