



GATIC

DRAINAGE & ACCESS COVERS

Engineered Access Covers & Drainage Gratings

Introduction

Introduction to Gatic	3
Quality and Sustainability	5
Design Considerations	6
The Gatic Range of Access Covers	7
Product Features and Benefits	9

Specialist and Bespoke

Bespoke Products & Solutions	13
<u>Specialist Additions</u>	15

Gratings

<u>Single Gratings and Frames</u>	17
<u>Continuous Gratings and Frames</u>	18

Loading Group F900 Covers and Frames

Introduction	20
Single covers and frames	21
Duct covers and frames	23
Continuous trench covers and frames	25
Multispan covers and frames	27
Assist Lift	29
LFA	33
Solid Top Circular Covers	34
Hinged Hydrant Covers	35

Loading Group E600 Covers and Frames

Introduction	37
Single covers and frames	38
Duct covers and frames	40
Continuous trench covers and frames	42
Multispan covers and frames	44
Solid Top Circular Covers	34

Loading Group D400 Covers and Frames

Introduction	48
Single covers and frames	49
Duct covers and frames	51
Continuous trench covers and frames	53
Multispan covers and frames	55
Solid Top Circular Covers	57
Gatic PAVE	58

Loading Group C250 Covers and Frames

Introduction	63
Single covers and frames	64
Duct covers and frames	66
Continuous trench covers and frames	68
Multispan covers and frames	70

Loading Group B125 Covers and Frames

Introduction	73
Single covers and frames	74
Duct covers and frames	76
Continuous trench covers and frames	78
Multispan covers and frames	80

Additional Access Covers and gratings	82
Installation	82
Lifting Keys	82

Recommended Viewing Settings

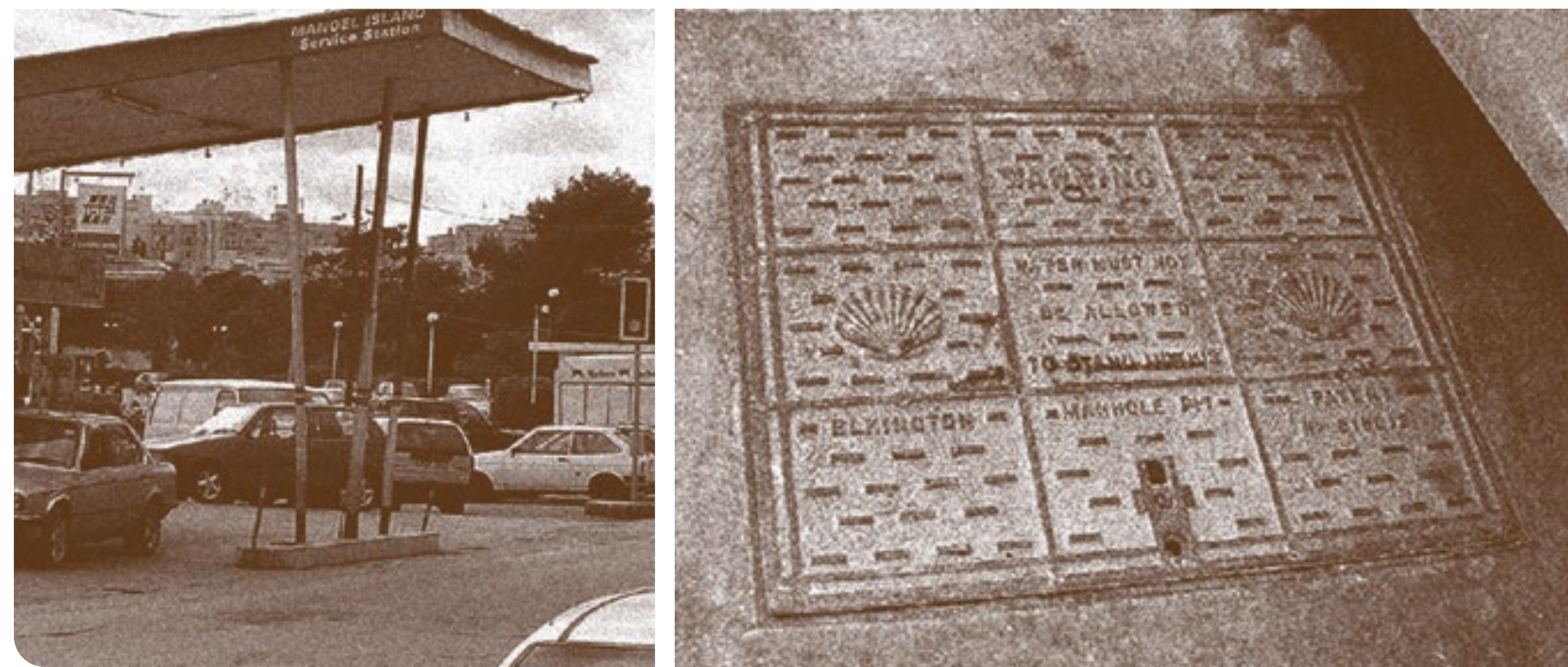
For optimum viewing please use Adobe Acrobat. This PDF contains clickable links and bookmarks to allow you to access the information faster. Some of these features may not work in other PDF readers.

Find out more on Page 6.

A challenge in the twenties. Still challenging today.

Gatic’s involvement with gas air-tight inspection covers spans nearly 100 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.



With a history of installations dating back to 1928, Gatic is without doubt the fully proven International Standard for engineered access covers and drainage gratings.

Original 1928 cover still in use

When we were asked to design our first gas and air tight cover for Shell, back in the 1920s, it was to a demanding specification. Our success in meeting this specification can be judged by the fact that one of the first covers supplied can still be seen in use at a Shell garage in Malta where it was originally installed.

Continuous development and refinement

Since that first success we have continued to improve and adapt our range of products to suit the ever increasing and diverse demands of travel, industry and commerce, developing ductile iron, machined access covers in a range of surface finishes and load ratings to cope with the harshest and most punishing of environments.

Future challenges

Despite this huge variety, technology never stands still for long and we are never allowed to rest on our laurels. These days more and more traffic is using our roads, carrying heavier loads at higher speeds. Huge numbers of containers pass through our ports daily and ever bigger and heavier aircraft are rolling down the taxiways and across the aprons of the airports we serve.

The challenges may be daunting but we are confident that we will continue to rise to the occasion and supply products to meet or exceed our customers demands.

GATIC
GAS AIR TIGHT INSPECTION COVERS

Gatic is part of the AWMS family



Alumasc (AWMS) is a UK-based supplier of premium building products. The majority of the group’s business is focussed on sustainable building products that enable customers to manage energy and water use in the built environment.

They include: Skyline Architectural Aluminium; Alumasc Rainwater Gutters & Downpipes; Harmer Building Drainage; Wade Building Drainage and Gatic Drainage & Engineered Access Covers.



Designed for the most demanding environments

At Gatic, we know that our reputation is only as good as the performance of our products. So we do our very best to ensure that the product you buy is the right product for the job and that it is installed correctly in order to be able to do its job successfully. That is why we make a point of supplying all the help and technical support that we can.

Manufacturing standards

It all starts with the manufacturing process. All the basic components for Gatic covers are cast to exacting specifications, developed over time.

The composition of the ductile iron is Quality controlled to ensure the product’s robustness is achieved against the load rating requirements.

This is because our products will eventually be machined to tight specifications in order to achieve the gas, air-tight and non-rocking fit upon which our reputation is built.

Gatic covers are produced in a wide range of strength ratings to suit any real-life application. When correctly installed, they can be expected to continue to perform as intended for the lifetime of the project, with minimal servicing. Our covers are designed to work effectively in the harshest environments.

Details of the range of load factors to match your requirements can be found on pages 10-11 of this publication. Selecting the appropriate product for your intended application means that you will achieve the service life and performance you need without over specifying, thus ensuring that you get the product you need with the most beneficial ratio of strength to cost. We can help you with this selection process and regard it as a very important part of our service.

Professional advice on your project

Our design engineers are available to discuss the technical aspects of any project involving Gatic covers, whether large or small. The application of a little expert knowledge often means that what appear to be intractable problems can be overcome with relative ease.

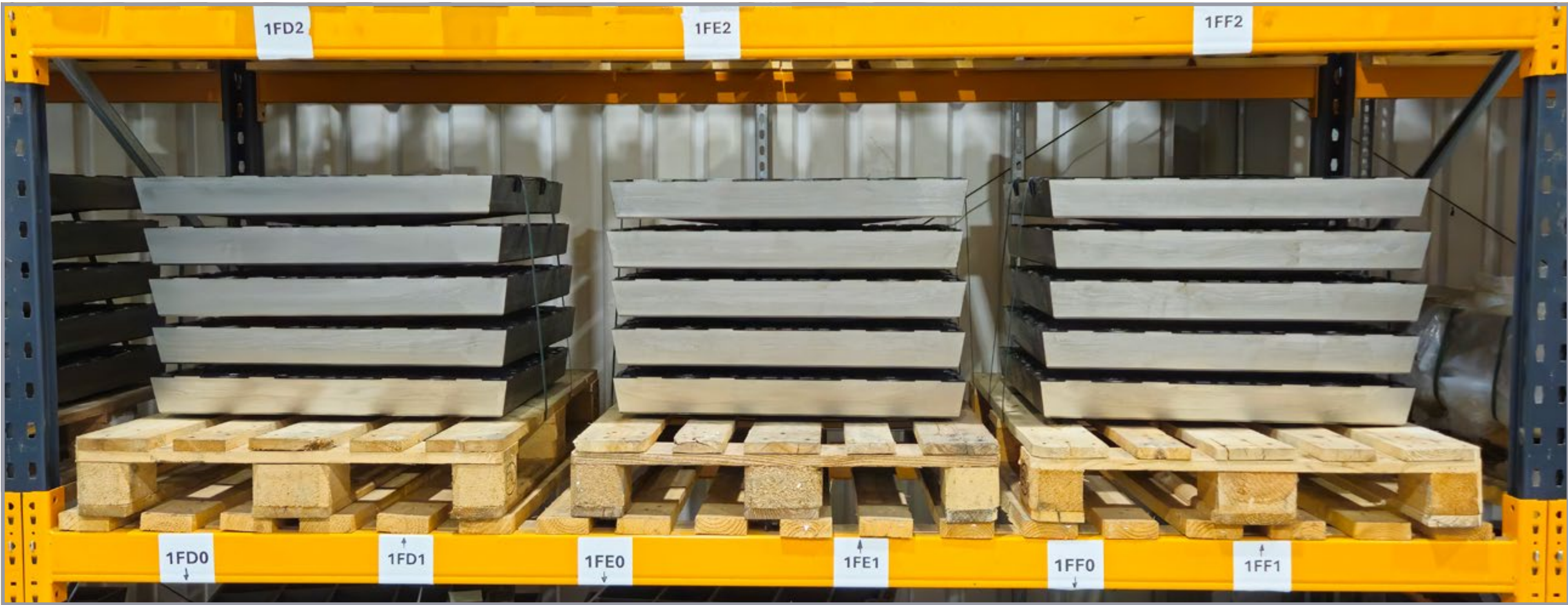
You can tap into this expertise either through our website www.gatic.com or by calling Tel: +44 (0)1787 475 151.

You will find most of the information you need to narrow down the choice of covers for your particular project within the pages of this publication. To see in detail how Gatic covers are constructed and fitted on site, we suggest you go to the website, where much more information is available.

Expert advice and assistance

If your project throws up some particularly challenging problem which needs an in-depth understanding, please don’t hesitate to get in touch since, in all probability, we have encountered a similar challenge before and, even if this is not the case, our 90-plus years of experience in dealing with these issues are sure to help you reach a satisfactory resolution.

Once these choices have been made you can relax, safe in the knowledge that your covers will be delivered to site in a timely manner.



In addition to compliance with environmental legislation, Alumasc is committed to developing its own measures to limit the adverse effects of its activities on the environment. To this end, Alumasc operates an environmental policy that fully integrates all aspects of company activities.



Green Economy

The Alumasc Group plc is pleased to be recognised by London Stock Exchange as contributing to the global green economy. The Mark is given to companies and funds that derive more than 50% of revenues from environmental solutions.

The Alumasc Group plc provides high-quality, low carbon, sustainable building products, systems and solutions, which help manage the scarce resources of energy and water in the built environment, and improve quality of life for the owner/occupier.



BSI ISO 9001:2015

This certification provides a structured framework for quality management systems (QMS), enabling us to enhance their overall efficiency and effectiveness. The standard also promotes a customer-centric approach, emphasising the importance of meeting customer requirements and delivering consistent, high-quality products and services.



Quality Assurance

The Gatic Quality Management System has been approved to BS EN ISO 9001
The Gatic Environmental Management System has been approved to ISO 14001



Sustainability

Alumasc actively pursues sustainability in its full range of products, and, with its partners and suppliers, is committed to putting consideration for the built and wider environment at the core of all aspects of current business and future development.



NBS Source

For over 50 years, NBS has helped architects produce their specifications and connect them with manufacturers. NBS Source helps specifiers select products confidently and efficiently.

A few FAQ’s that are worth considering as you look over the brochure. Typically these considerations guide you to selecting the most suitable cover for the project.

Gatic covers are designed both to protect and give easy access to a diverse range of underground services, examples include:

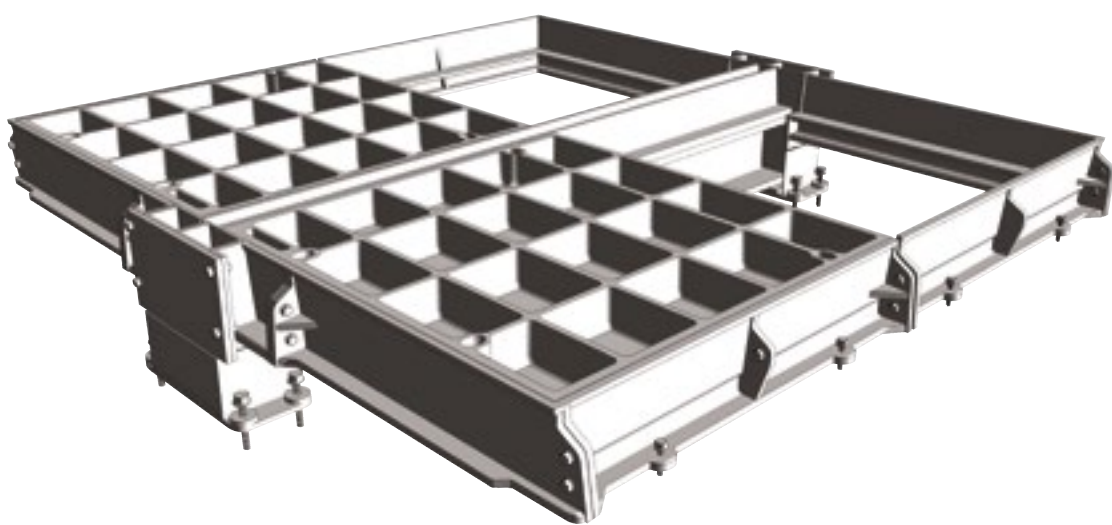
- Manhole/Pump/Valve/Transformer Chambers
- Pipe and Cable Service Trenches
- Cable Draw Pits
- Lighting Pits
- Fuel and Fire Hydrant Pits
- Machinery/Plant Access Chambers
- Combined Sewer/Overflow Chambers

Typical applications can be found in a diverse range of projects including:

- Airports
- Ports/Docks
- Utilities - Gas/Electricity
- Water - Sewerage Treatment Works/ Water Treatment Works/Pumping Stations
- Power Stations/Sub-Stations
- Commercial and Industrial Applications
- Data Centres
- Tunnels

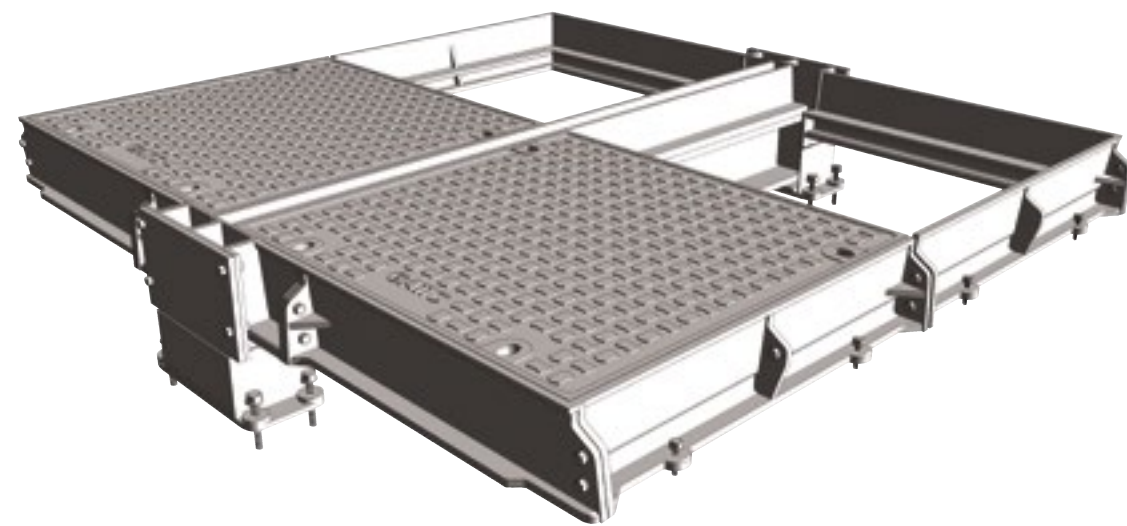
Cover options

Gatic covers are available in a choice of designs to suit different conditions and requirements for appearance.



Recessed for concrete infill

Covers are designed with an arrangement of cross-ribs for infilling with concrete. This provides a very strong and hard wearing surface with an attractive appearance.



Solid top anti-slip surface

High performance covers that are lighter in weight than those incorporating concrete infill. Solid top covers incorporate a non-slip lozenge pattern on the surface.

NOTE: Covers are also available for Pavior infill.

Using this brochure

Gatic covers have been created to suit the widest range of applications and to meet different loading requirements, from relatively light loads (eg, pedestrian areas and residential roads) to the most heavy (eg, airports, dockyards, etc).

BS EN 124: classifies covers according to their place of installation as shown below. Where there is any doubt, the stronger class should be selected.

Did you know?

Our products are manufactured from 100 per cent ductile iron, giving high elasticity, which means Gatic covers and frames are highly resistant to physical forces and shock.

Gatic covers comprise ductile iron and structural steel components, all of which are recyclable.

Loading description	BS EN 124	
	Class	Test Load
Areas imposing particularly high wheel loads	F900	900kN
Areas imposing high wheel loads	E600	600kN
Carriageways of roads (heavy duty)	D400	400kN
Gully tops in kerbside channels of roads	C250	250kN
Footways, pedestrian areas, etc	B125	125kN

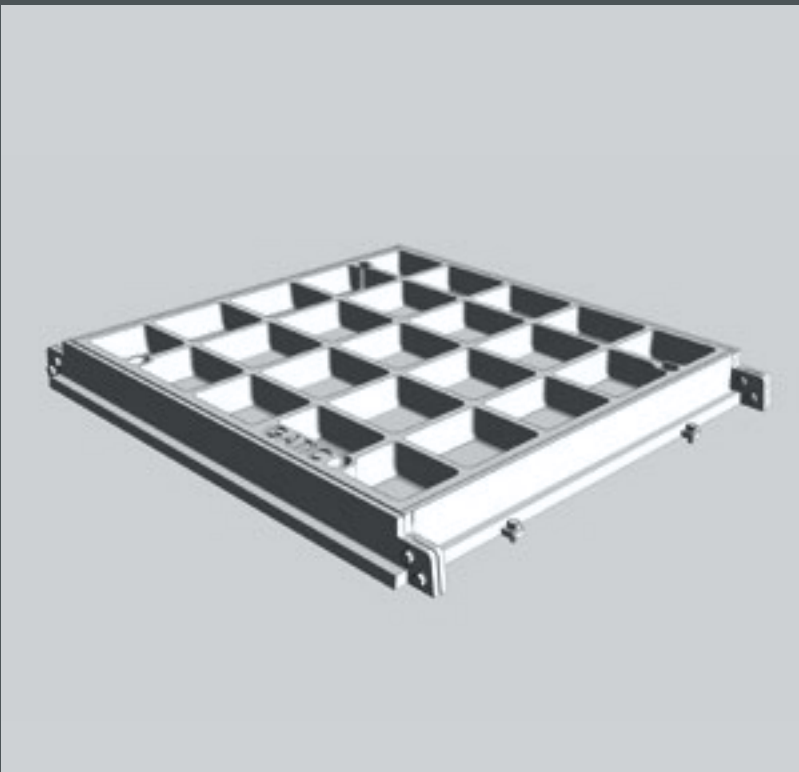
Data from BS EN 124: (Gully tops and manhole tops for vehicular and pedestrian areas. Design requirements, type testing, marking, quality control)

The covers in our brochure are organised according to the BS EN 124 classifications. Please refer to the Loading Group Selector Guide on pages 10-11.

Introduction - Range Summary

Gatic offers five main load classes and within each, offers the following cover types.

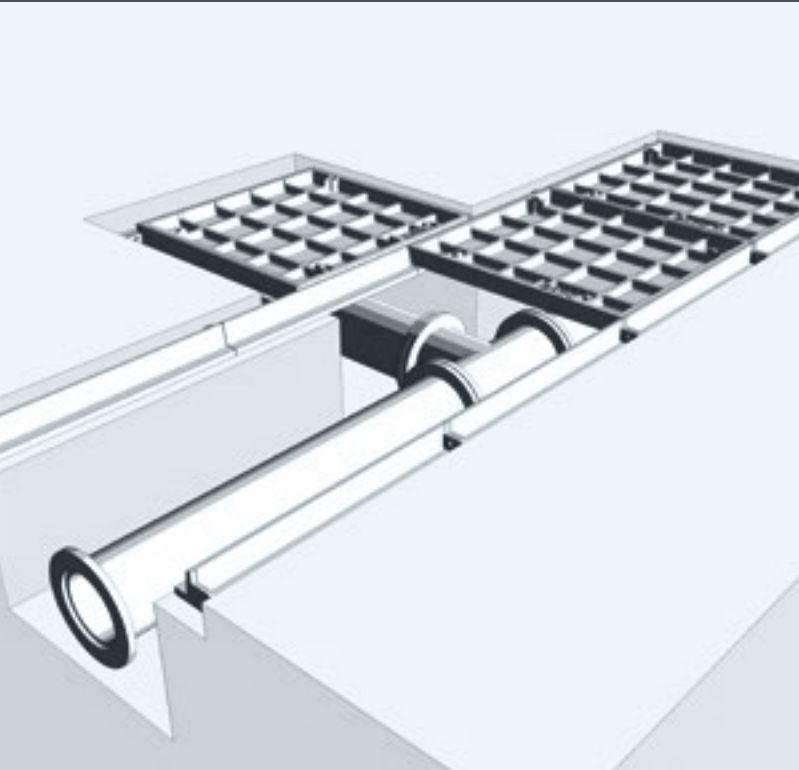
Single Covers and Frames



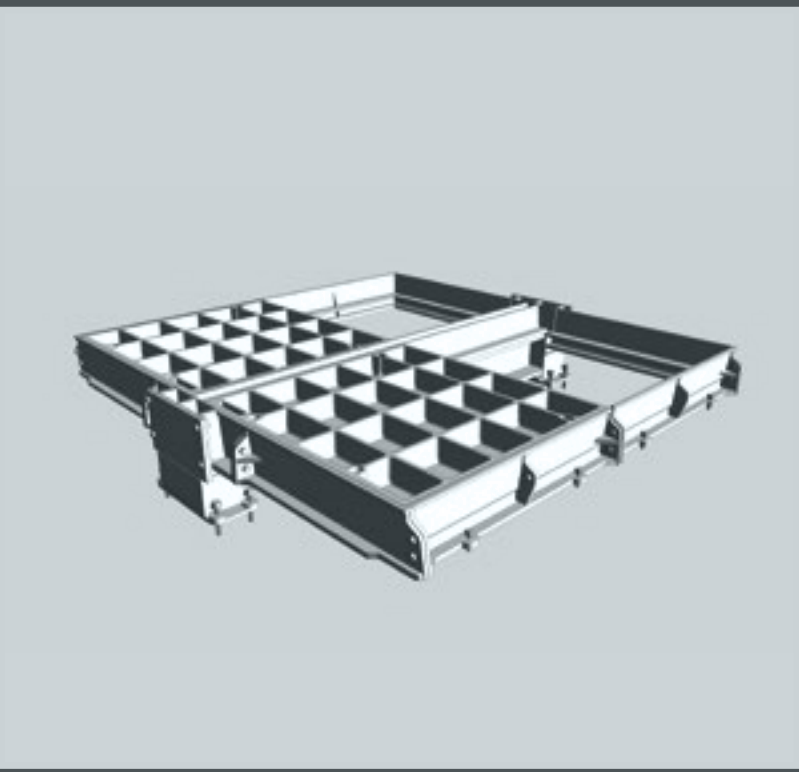
Duct Covers and Frames



Continuous Trench Covers and Frames



Multispan Covers and Frames



Gratings and Frames



Intro

Specialist &
Bespoke

Gratings

F900

E600

D400

C250

B125

Spec

Loading group selector guide

The Gatic range of loading groups is organised according to BS EN 124: (Gully tops and manhole tops for vehicular and pedestrian areas. Design requirements, type testing, marking, quality control).

Compliance of the product with the respective part of EN 124 series does not replace the responsibility of the user to ensure that the gully top or the manhole top is correctly installed and its elements (frame and grating/cover) have the necessary performance values.

Loading Group 6 F900

35 tonne slow moving wheel load - test load 900kN Areas imposing particularly high wheel loads:

- Airfield pavements
- Taxiways
- Civil airports
- Dockyards
- Other areas where single slow moving wheel loads up to 35 tonne may be encountered



Loading Group 5 E600

20 tonne slow moving wheel load - test load 600kN

- Some airfield pavements
- Dockyards
- Other areas where single slow moving wheel loads up to 20 tonne may be encountered



Loading Group 4 D400

11.5 tonne wheel load - test load 400kN

- Power stations
- Carriageways
- Hard shoulders
- Parking areas for all vehicle types
- For high density traffic conditions we recommend the use of a vibration resistant locking system



Loading Group 3 C250

5 tonne wheel load - test load 250kN

- Kerbside installation
- Pedestrian precincts
- Yard



Loading Group 2 B125

3 tonne wheel load - test load 125kN

- Footways
- Pedestrians areas
- Car parks
- Driveways
- Internal floors



Features and benefits

Cover types

Covers are recessed for concrete infill pavements or solid top according to specifier preference. Assist lift options for both recessed and solid top cover types are available.

Concrete infill recessed covers

Recessed covers are designed for filling with concrete as specified in BS EN 124 - 45 N/mm² for a test cube of 150mm, or a 40N/mm² for a test cylinder 150mm diameter x 300mm high, using a 10mm down coarse aggregate.

Anti-slip surface covers

Concrete infill covers provide a non-slip surface similar to the surrounding areas. Solid top covers incorporate a lozenge pattern on the surface.

Materials

The components of Gatic covers are manufactured from the following materials:

Ductile iron components to BS EN 1563

Structural steel sections (removable beams) to BS EN 10365.

Fine tolerances

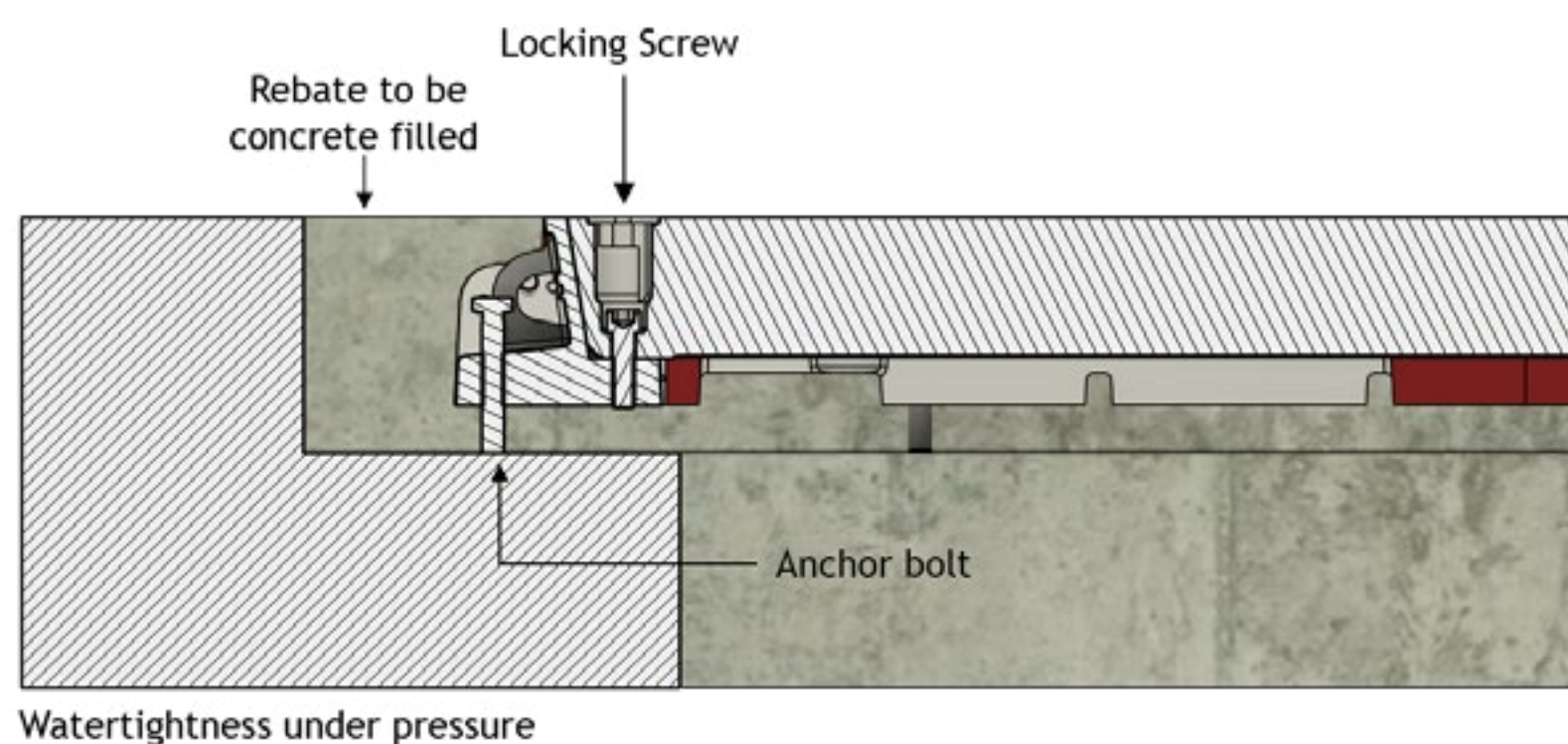
The seating faces of Gatic covers and frames are machined to ensure metal-to-metal contact within 0.25mm tolerance.

Non-rocking

Correctly installed, Gatic covers will be non-rocking and sealed against ingress of road dirt and other detritus.

Gas, Air & Watertight

A film of graphite grease between the contact faces of Gatic units provides a gas and air & water tight seal, and a watertight joint under normal rainwater conditions.



Pressure-tight

Standard single units with locking screws and holding-down bolts are available to withstand upward pressure. Consult our technical department for details.

Easy removal/replacement

The machined underside seating face of Gatic covers allows the sliding out of covers for easy removal or replacement.

Operator control

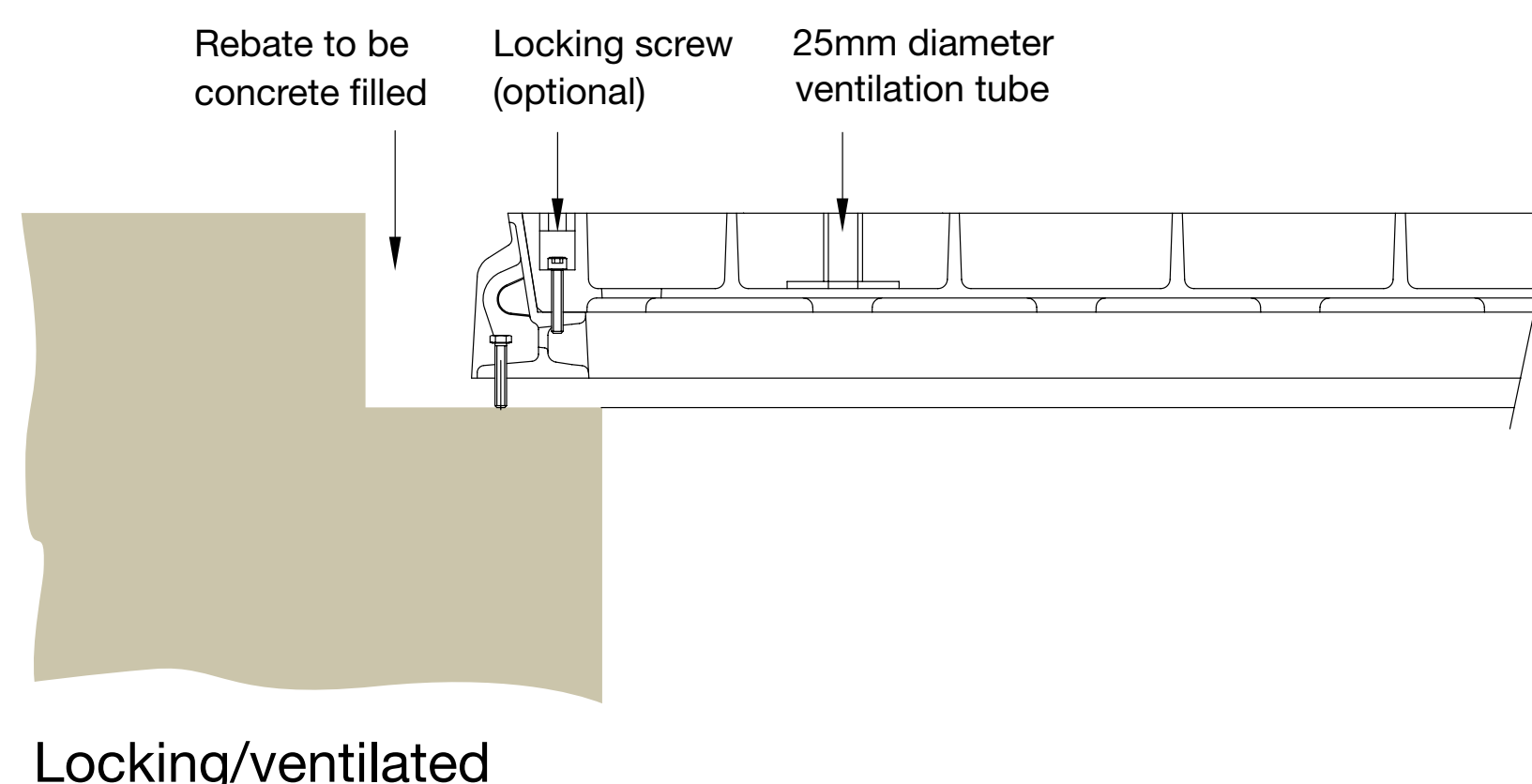
Jack screw operating keys locate positively and securely into Gatic covers and are a necessary tool if the inherent cover seal is to be broken effectively and to allow operator maximum control during operation.

Secure and vandal resistant

Covers are designed to prevent tampering and unauthorised removal. Gatic covers cannot be removed without the correct lifting key, so unauthorised removal is virtually impossible. Locking bolts can be fitted to Gatic cover as an additional security feature.

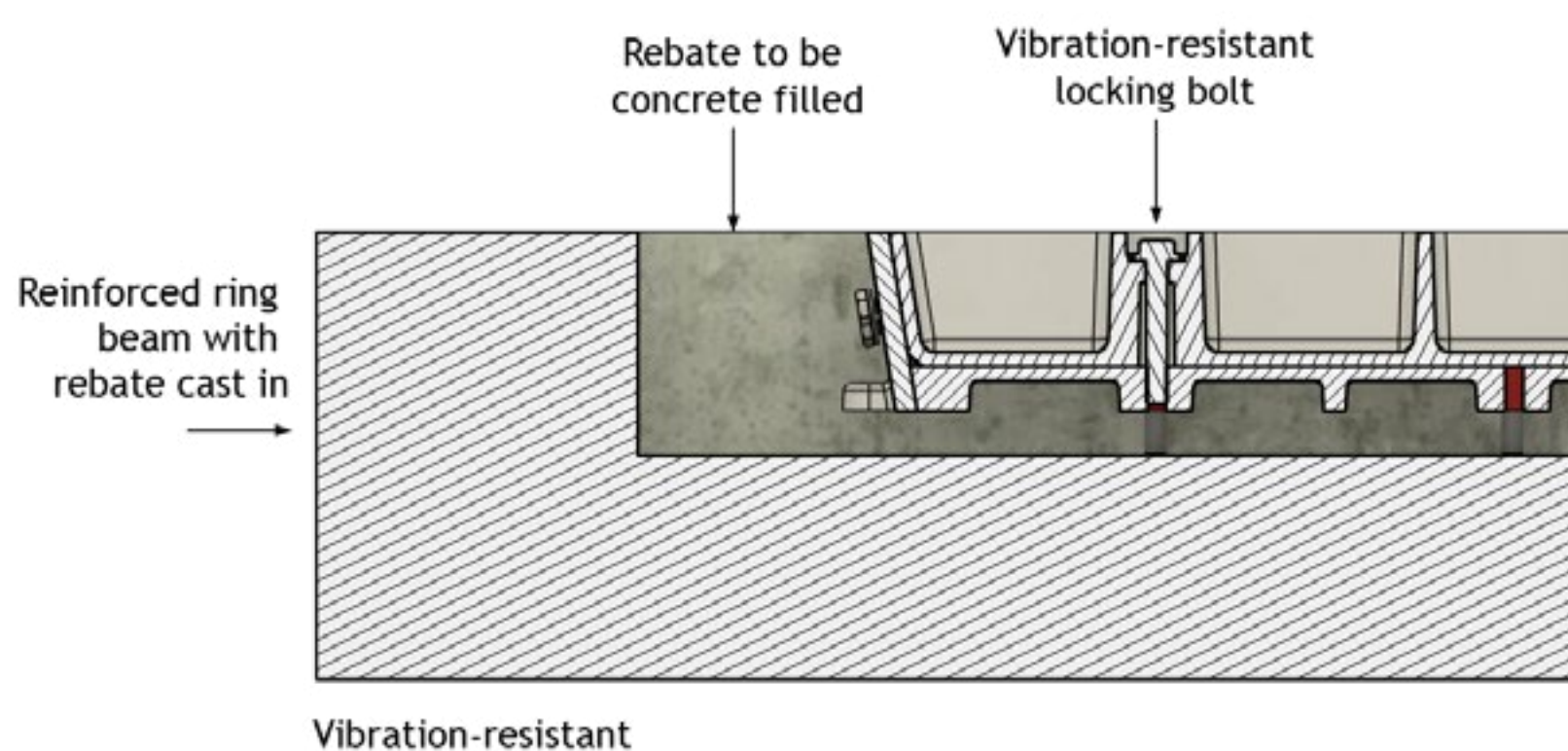
Ventilation

Ventilation can be provided with four 25mm diameter ventilation tubes in recessed covers.



Vibration resistant

For covers in high density traffic conditions, we recommend the use of a factory-fitted vibration-resistant locking system to the recessed covers.



Note:

- We do not recommend the use of solid top covers in high density traffic locations.

Closed keyways

Gatic cover keyways are closed and fitted with plastic plugs to prevent them from blocking up.

Loadings

All Gatic covers will withstand test load and maximum permanent set criteria specified in BS EN 124 for each loading category. Covers are load tested in their as service condition.

Rigidity

The robust and rigid design of Gatic’s frames, closely toleranced covers and frames creates a rigid composite structure.

Secure support

The clear opening width between supporting frames are at least 10mm greater than the pit/chamber design to allow for minor deviations in pit construction dimensions.

Beam wallbox

Supporting beams in Gatic Multispan units are easily removed with appropriate lifting equipment for access to the total chamber area. Beam wallboxes do not project into the chamber opening.

Finishes

Units are painted with a matt black paint that acts as a temporary protection during transit. Removable supporting steelwork is galvanised to BS EN ISO 1461. For special applications, cover & frame components can be galvanised to BS-EN ISO 1461.

Installation

Consignments of Gatic units are accompanied by comprehensive installation instructions.

Levelling bolts

All frame bars and wallboxes are fitted with bolts to assist in the levelling of the unit during installation.

Security grids

Hinged lift-out galvanised steel security grids (with padlock facility if required) can be incorporated into Gatic units.

Environmental commitment

Responsibility towards the environment is our primary concern. Our customers often now demand products that are made from recycled and recyclable materials, supplied by companies with robust environmental policies to reduce the environmental impact of their projects for future generations.

To meet these requirements we have an integrated Quality (BS EN ISO 9001) and Environmental (BS EN ISO 14001) Management System which encompasses the design, manufacture and management systems within the company and ensures our commitment to continuous environmental improvements regarding the manufacture and design of all our products in the following ways:

- Minimise environmental impact
- Commit organisational resources to energy management
- Reduce energy costs
- Give high priority to energy efficient investments
- Consider life cycle energy costs for all new projects
- Minimise CO2 emissions year on year
- Use energy from sustainable resources wherever possible

To achieve these goals we have put in place the necessary systems and controls to meet demanding environmental targets and to make sure that these are maintained for the future benefit of the environment and our customers alike.

Gatic services

Gatic offers a full support service to specifiers and contractors, including Computer Aided Design. AutoCAD compatible details of all Gatic products are available. Please consult our technical department for assistance.

In view of our commitment to product improvement, we reserve the right to alter designs without notice. Design changes will not adversely affect the performance or loading capability of our products.



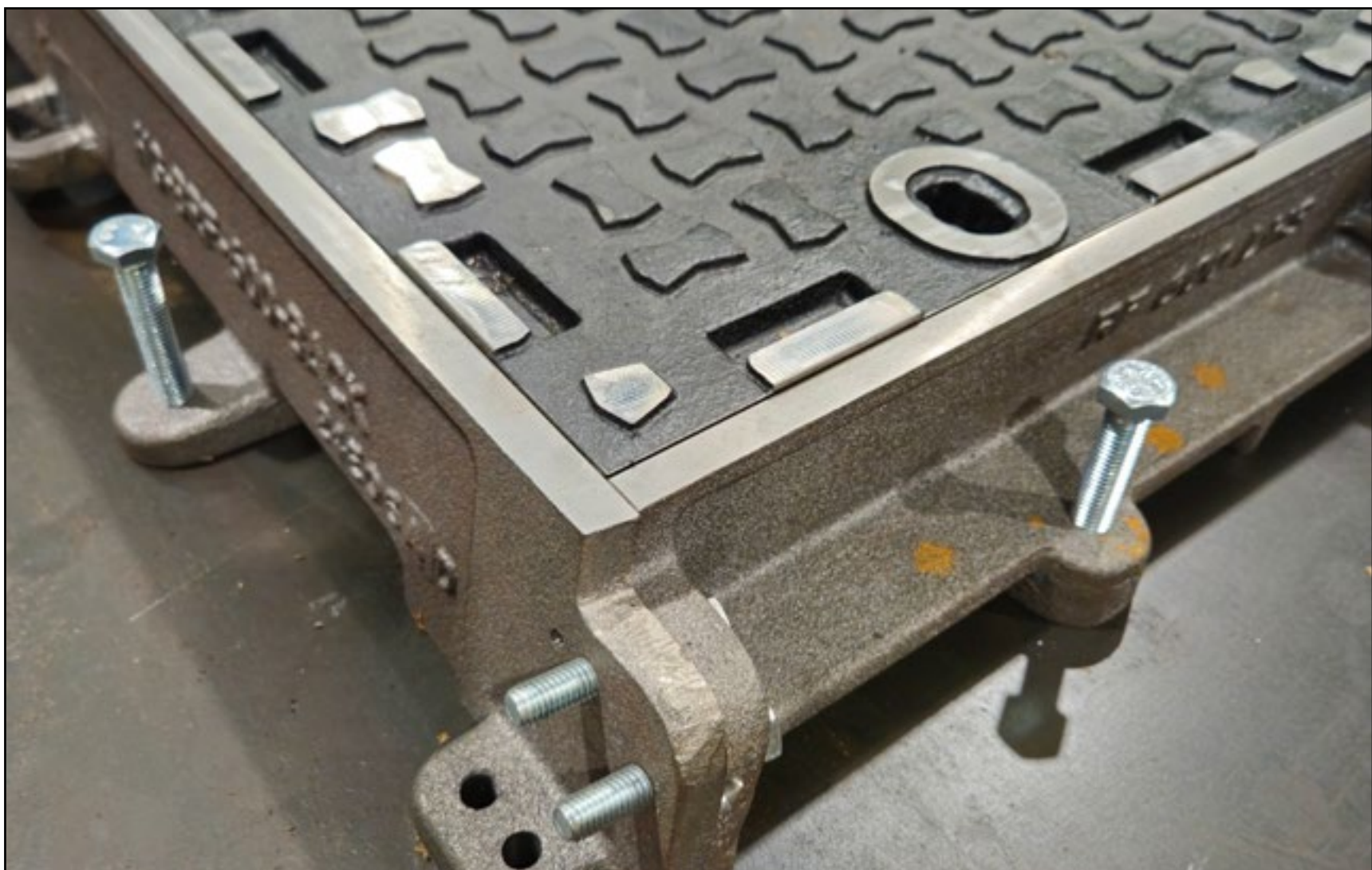
Specialist & Bespoke

Customise standard covers, design something totally different. We can offer a wide range of bespoke options to suit your projects needs.



Your project, our products

Since 1928 Gatic has been providing high quality covers to suit all requirements. We are able to offer a range of bespoke products that include: Hinged security grids, Alternative finish galvanised covers, Hinged hydrant covers, Solid top circular covers, Single gratings and frames, Trench gratings and frames, Plug covers & Bespoke branding and RFID Tags.



Bespoke branding

Your brand. Your business. Your access covers.

Please speak with your local Gatic Area Sales manager or Gatic technical if your project requires bespoke branding.

RFID / ID Tags

An embedded RFID Tag in Gatic Access Covers allows for the client to improve their asset management and maintenance regimes. By quickly scanning a cover you can identify the asset number and review and record data against a linked database including asset types, location, maintenance and health and safety requirements.

Keeping track of your assets is important for financial tracking, and maintenance schedules.

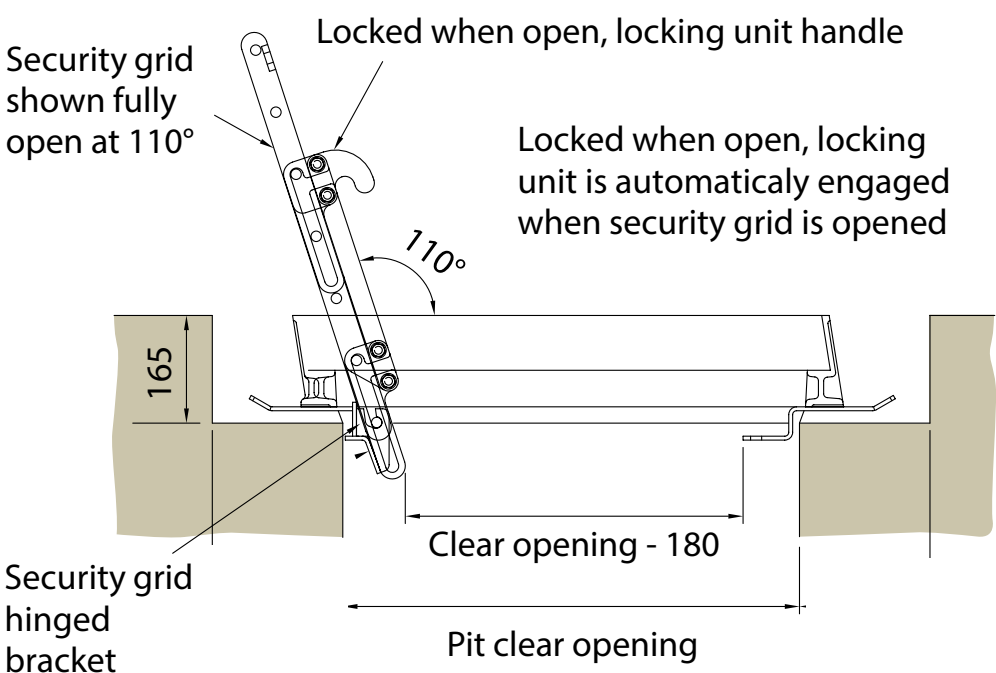
Please speak with your local Gatic Area Sales manager or speak with Gatic technical if your project requires RFID/ID Tags



Hinged security grids

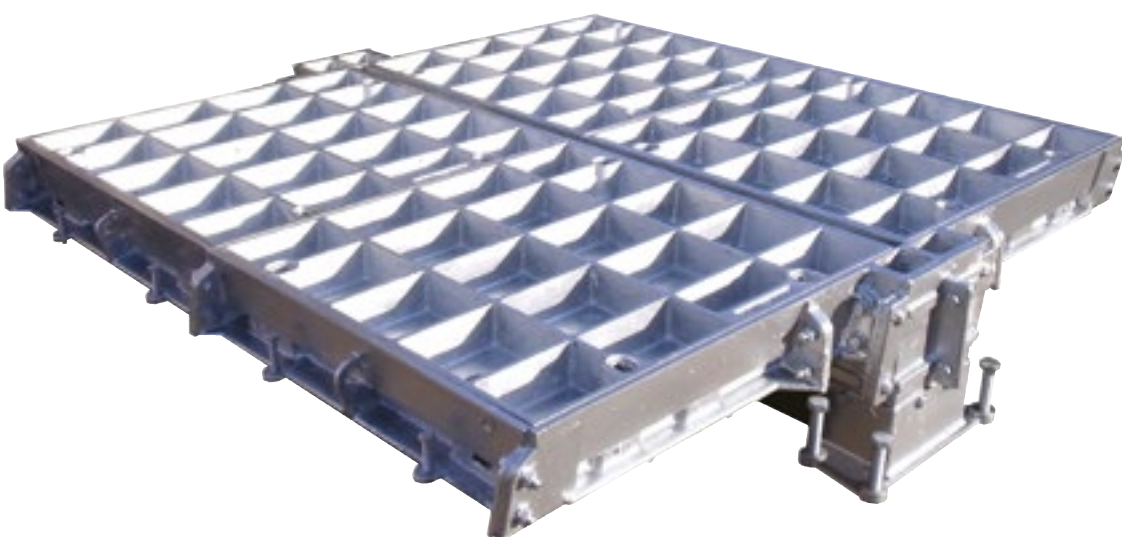
Gatic covers can be supplied with mild steel galvanised security grids when required. Once the cover is removed, the security grid can be hinged to the vertical position where it will lock safely in place. Security grids can be locked in a closed position by using customer-supplied padlocks.

Hinged security grills can be fitted to all gatic units from single covers to multispan.



Alternative finish galvanised covers and gratings

Gatic covers and gratings are supplied painted with black paint as standard. This acts as temporary protection during transit. Where additional protection is required, Gatic ductile iron covers can be supplied galvanised to BS EN ISO 1461. Refer to Gatic technical department for more information.

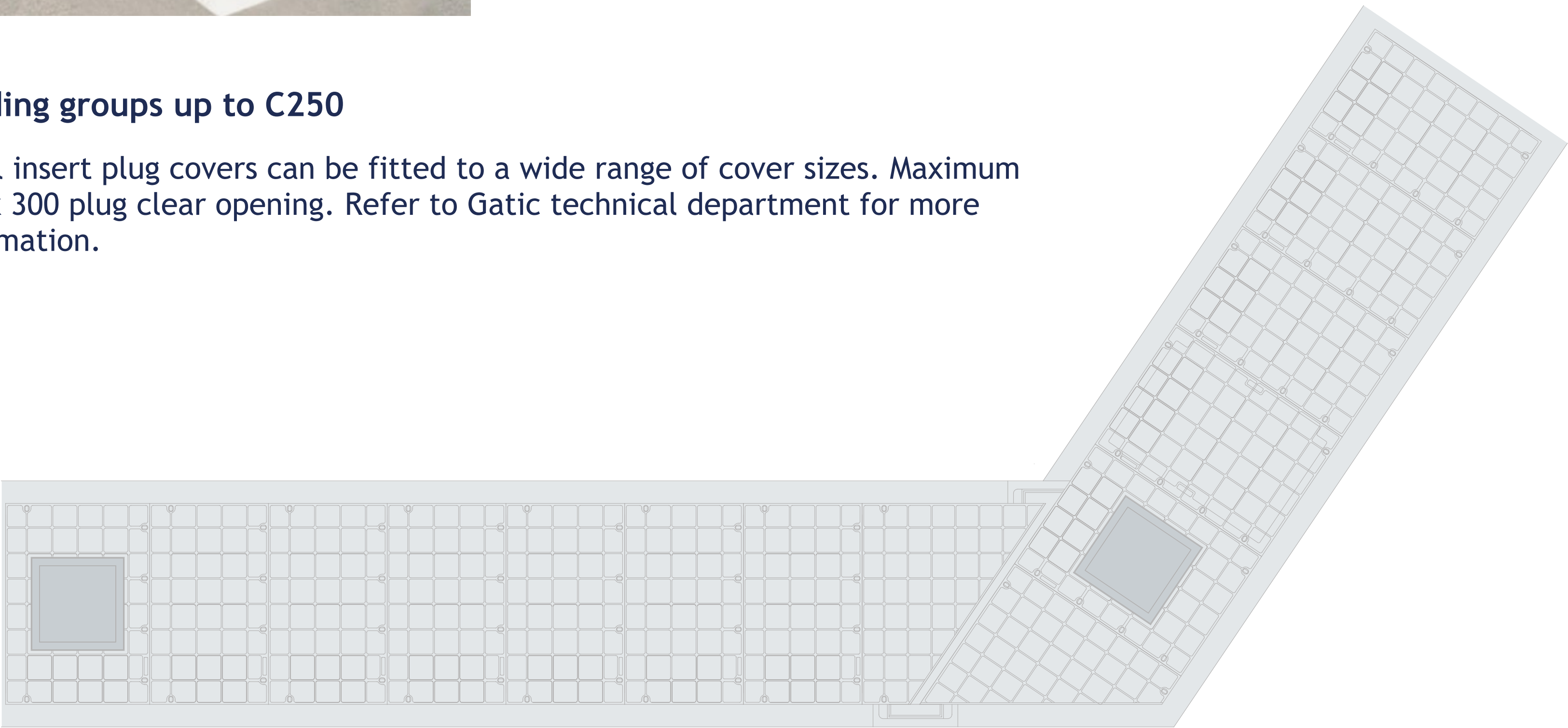


Plug Covers

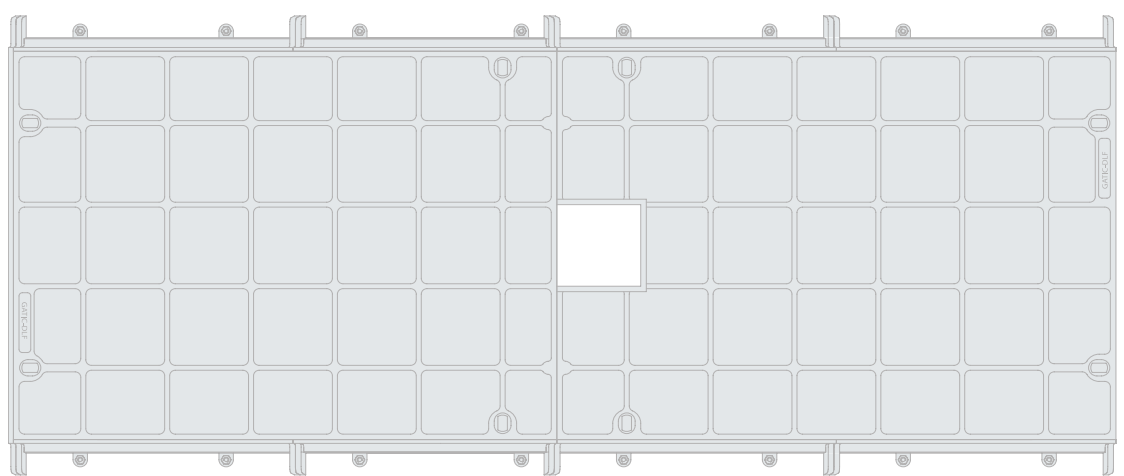


Loading groups up to C250

Small insert plug covers can be fitted to a wide range of cover sizes. Maximum 300 x 300 plug clear opening. Refer to Gatic technical department for more information.



Holes and cut-outs

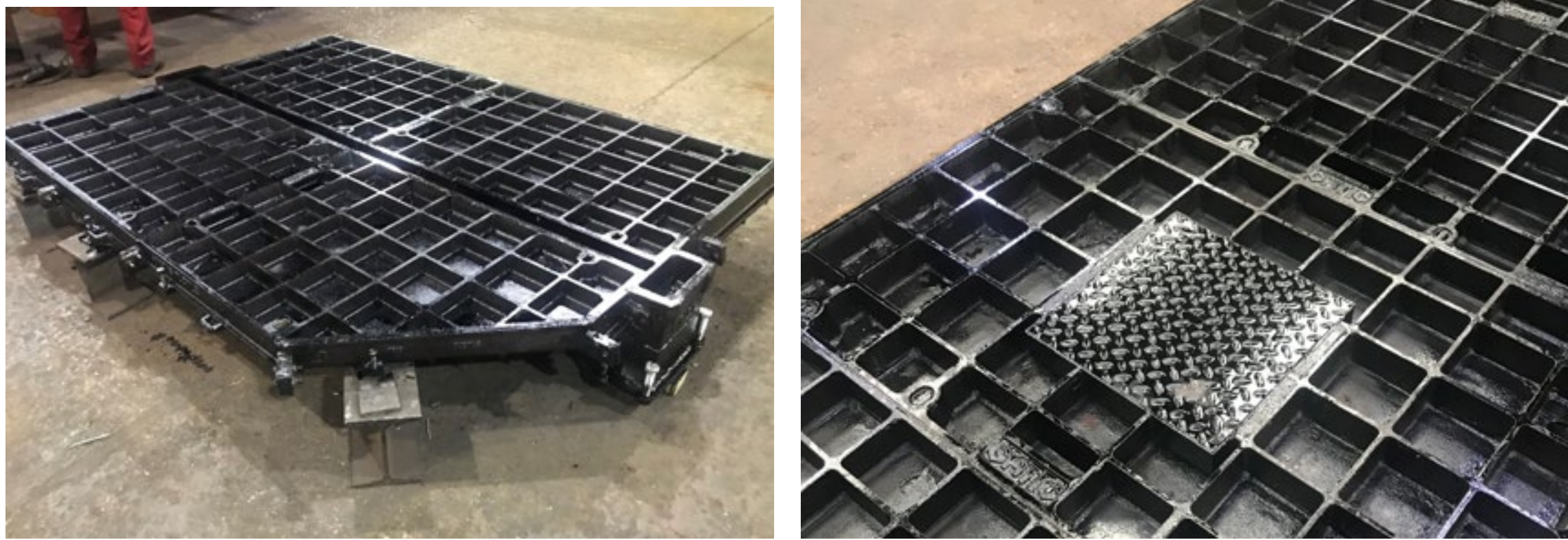


Holes and cut-outs can be provided in covers to allow for the positioning of valves, pipes and cables. These can be square or circular, loading suitable for C250.

Upstands can be fitted to prevent the ingress of water around pipes and valves.

Special Covers

Gatic has the flexibility to adapt our products to special applications e.g. non-standard length covers can be supplied if there are restrictions in the trench dimensions, covers and frames can be manufactured to suit a radius. If individual access is required to a valve beneath a cover, then, depending on the size and loading, a plug cover may be incorporated into the main cover.



Over Hanging WallBox

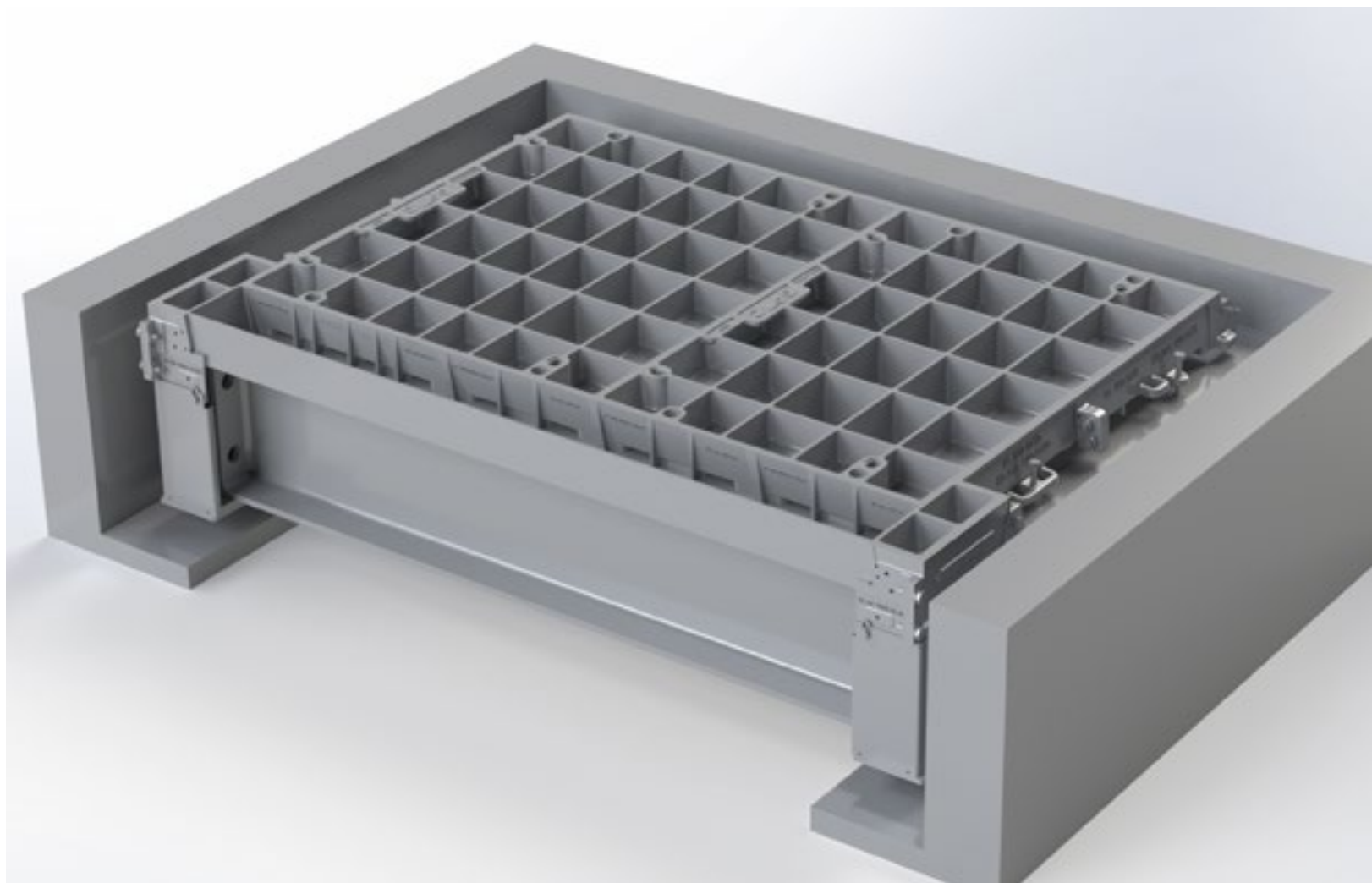
Where a rebate is not available in the concrete surround to accommodate a standard beam housing box, an overhanging system is available that hangs from the concrete wall and is bolted to the face of the pit.



Underside of the Access Cover

Kerb Beams

Where a concrete rebate is not available for the side frames to support a multi-part unit, a removable kerb beam arrangement is available to provide support to the covers and frames.



Junctions

Where trenches change direction and uninterrupted coverage is required, right angle, tee and special angle junctions can be incorporated into the cover layout. Depending on the span of the trench and the loading, a removable support beam may be included.



Gratings

Areas of exceptionally high wheel loads, aircraft hard-standings, taxiways at civil airports, container ports and dockyards, designed for concrete infill



Single Gratings and Frames



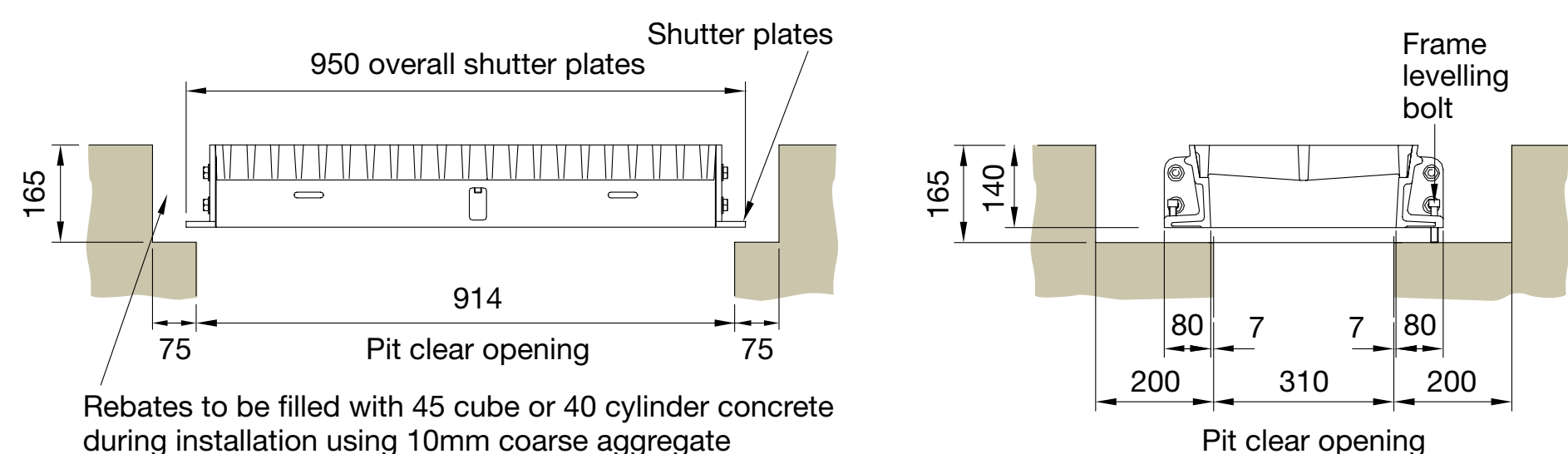
Single gratings

Pit clear opening sizes	Grating type	Load rating	Overall frame size length x width x depth	Suggested rebate size length x width x depth	Waterway per unit
850 x 300	DRG/140	F900	870 x 480 x 140	1000 x 700 x 165	1256cm ²
850 x 450	DRG/140	F900	870 x 630 x 140	1000 x 850 x 165	2215cm ²
600 x 600	DRG/100	F900	620 x 780 x 100	750 x 800 x 125	1991cm ²
850 x 600	DRG	F900	870 x 780 x 140	1000 x 1000 x 165	2768cm ²
1000 x 1000	DRG/100	D400	1023 x 1176 x 100	1400 x 1050 x 125	5544cm ²

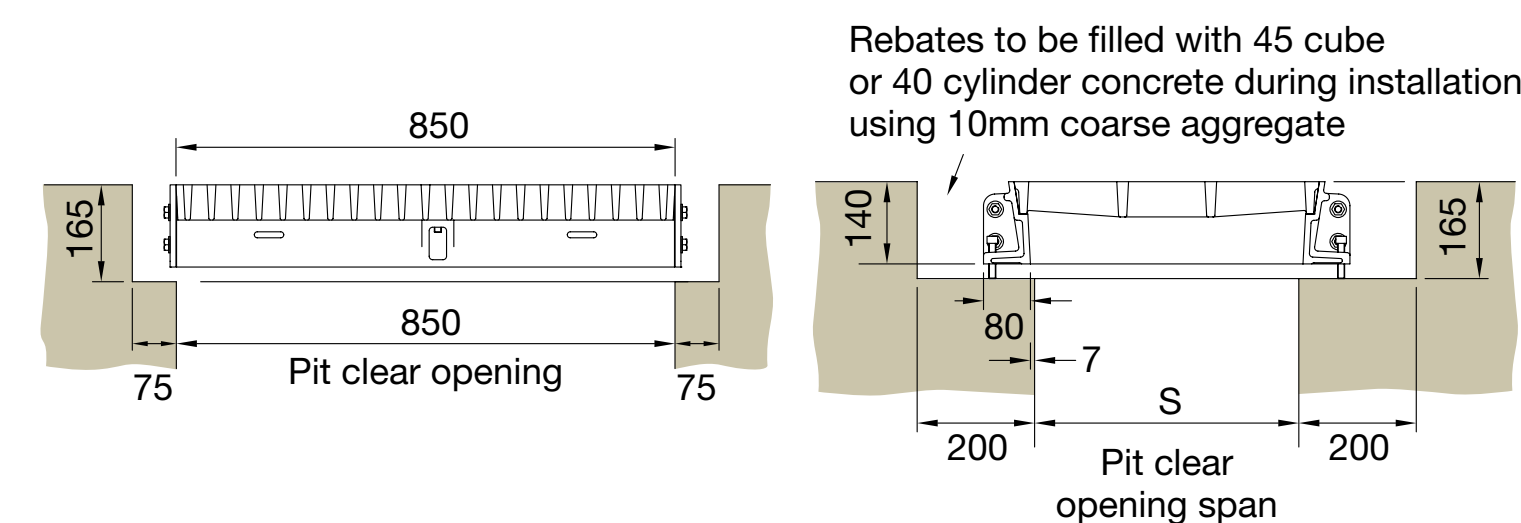
Single gratings with shutter plates

Pit clear opening sizes	Grating type	Load rating	Overall frame size length x width x depth	Suggested rebate size length x width x depth	Waterway per unit
914 x 310	DRG/140/S	F900	950 x 480 x 140	1065 x 700 x 165	1256cm ²
914 x 457	DRG/140/S	F900	950 x 630 x 140	1056 x 850 x 165	2215cm ²
914 x 610	DRG/140	F900	950 x 780 x 140	1065 x 1000 x 165	2768cm ²

Technical diagrams



Type DRG/140/S



Type DRG/140

Continuous Gratings and Frames



Gatic gratings and frames can be manufactured in continuous runs.

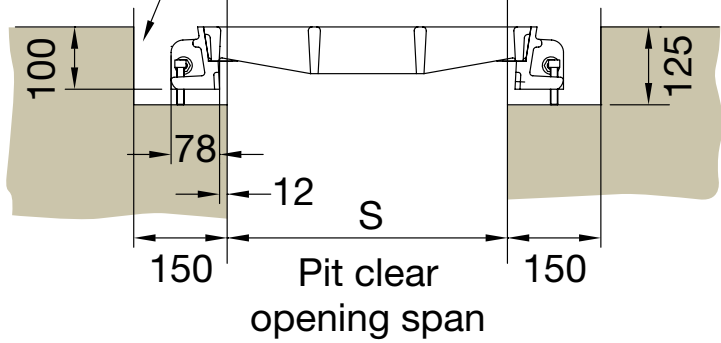
A layout drawing with enquiries will enable our technical department to design an appropriate layout of gratings.

All Type DRG/100 gratings and frames available in 1000mm lengths except 1000mm c/o span for E600/F900 loadings which are 500mm lengths.

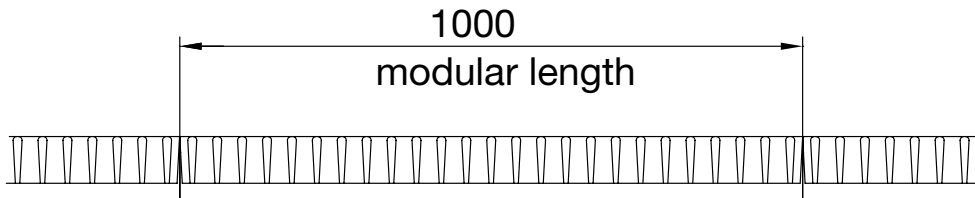
Pit clear opening sizes	C250 Type	D400 Type	E600 Type	F900 Type	Waterway per metre
300	DRG/100	DRG/100	DRG/100	DRG/100	1813cm ²
450	DRG/100	DRG/100	DRG/100	DRG/100	2629cm ²
600	-	DRG/100	DRG/100	DRG/100	3445cm ²
750	-	DRG/100	DRG/100	DRG/100	4329cm ²
810	-	DRG/100	DRG/100	DRG/100	4466cm ²
1000	-	DRG/100	DRG/100	DRG/100	5262cm ²

Technical diagrams

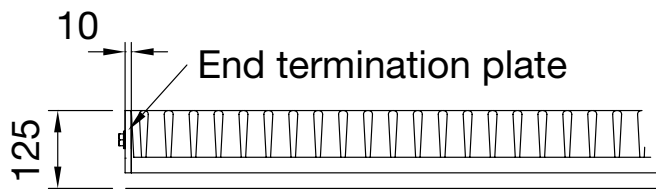
Rebates to be filled with 45 cube or 40 cylinder concrete during installation using 10mm coarse aggregate



Type DRG/100



Section through drainage trench



Section through end terminal

F900

Areas of exceptionally high wheel loads, aircraft hard-standings, taxiways at civil airports, container ports and dockyards, designed for concrete infill



Loading group F900 introduction

Areas of exceptionally high wheel loads, aircraft hard-standings, taxiways at civil airports, container ports and dockyards, designed for concrete infill.

35 tonne slow moving wheel load, test load 900kN - Suitable for:

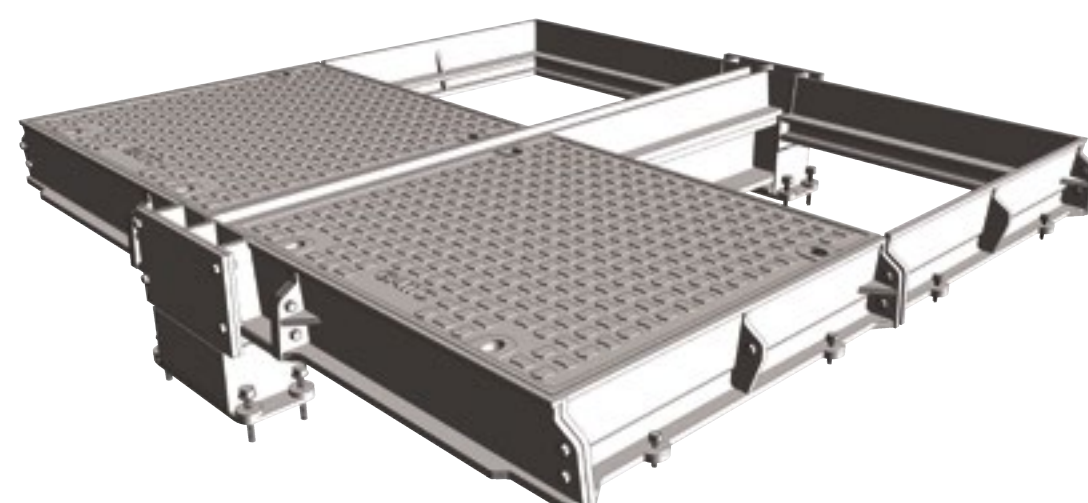
Aircraft hard-standings and taxiways at civil airports

Container ports and dockyards where individual wheel loadings of up to 35 tonnes may be encountered

F900 assemblies are available with a choice of cover designs - recessed or solid top.

Solid top

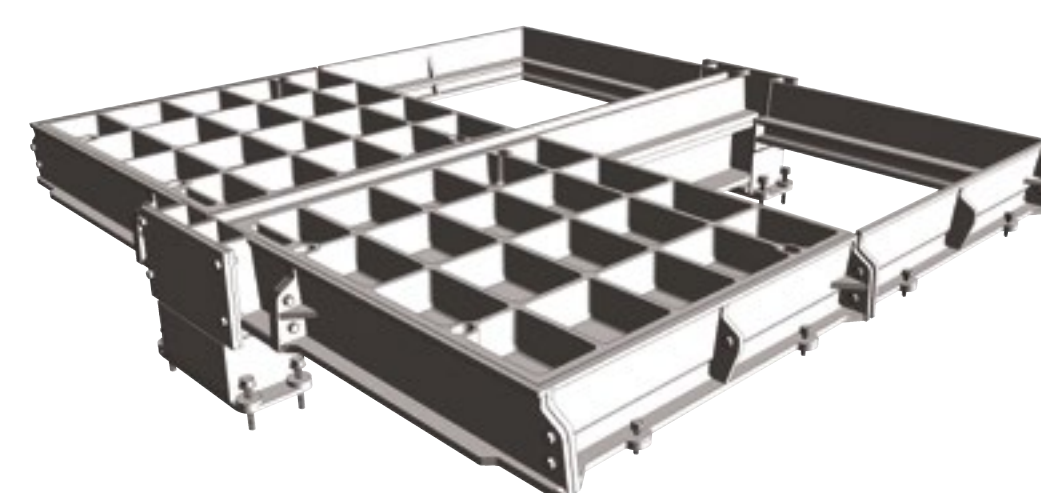
Solid top cover types are lighter in weight than recessed covers, and feature an anti-slip surface. Solid top covers are denoted by the code Type RSF depicted in section on the following pages.



Recessed for concrete infill

Recessed covers are available in a choice of designs designated by a 'Type' reference. F900 recessed covers are available as Type DLF, DM, RRF, DM/F. Section drawings of the different recessed cover types are shown on the following pages.

To prevent movement of covers in high traffic conditions, we recommend the use of a factory fitted vibration-resistant locking system. Can be fitted to recessed covers only.



Product Ranges

Single covers and frames



Duct covers and frames



Assist Lift



Continuous trench covers and frames



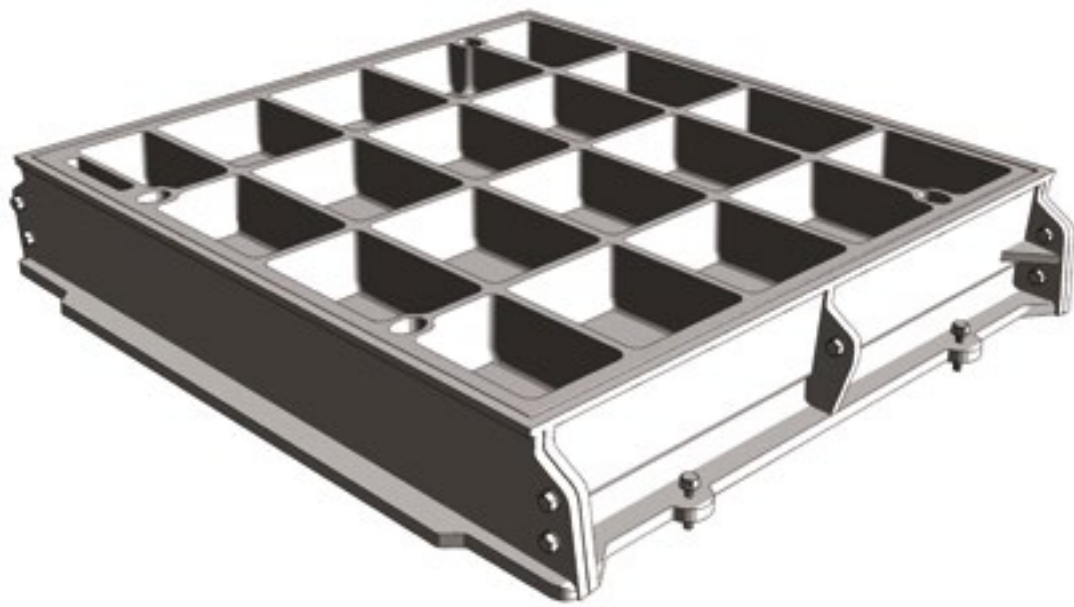
Multispan covers and frames



LFA

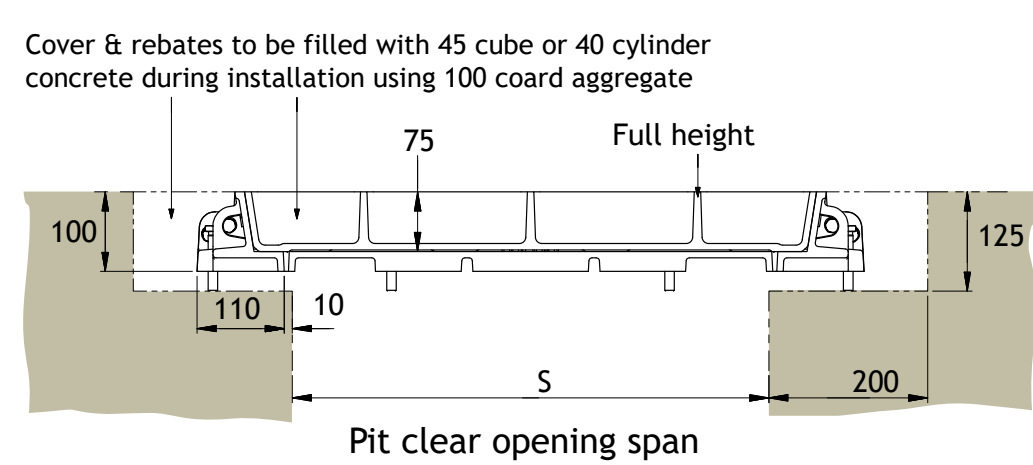


Single Recessed Covers and Frames

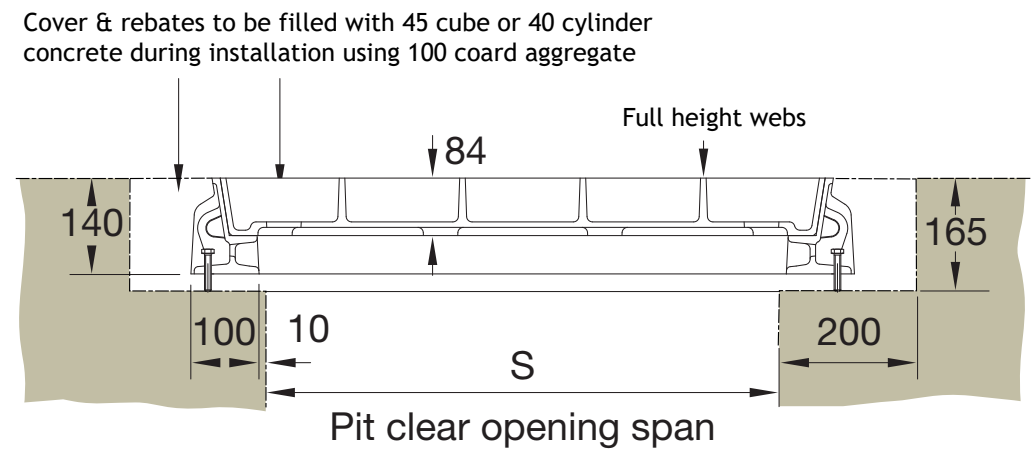


Pit clear opening sizes L x S	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
750 x 300	DLF	900 x 540 x 75	1050 x 600 x 100
600 x 450	RRF	750 x 690 x 100	1000 x 850 x 125
750 x 450	RRF	900 x 690 x 100	1150 x 850 x 125
600 x 600	RRF	750 x 840 x 100	1000 x 1000 x 125
750 x 600	RRF	900 x 840 x 100	1150 x 1000 x 125
900 x 600	RRF	1050 x 840 x 100	1300 x 1000 x 125
600 x 750	RRF	750 x 990 x 100	1000 x 1150 x 125
750 x 750	RRF	900 x 990 x 100	1150 x 1150 x 125
900 x 750	RRF	1050 x 990 x 100	1300 x 1150 x 125
600 x 900	RRF	750 x 1140 x 100	1000 x 1300 x 125
750 x 900	RRF	900 x 1140 x 100	1150 x 1300 x 125
900 x 900	RRF	1120 x 1140 x 100	1300 x 1300 x 125
600 x 1050	RRF	750 x 1290 x 100	1000 x 1450 x 125
600 x 1050	DM	750 x 1290 x 140	1000 x 1450 x 165
750 x 1050	DM	970 x 1270 x 140	1150 x 1450 x 165
1000 x 1050	DM	1220 x 1270 x 140	1400 x 1450 x 165
600 x 1200	RRF	750 x 1440 x 100	1000 x 1600 x 125
750 x 1200	RRF	900 x 1440 x 100	1150 x 1600 x 125
600 x 1500	DM/F	820 x 1720 x 140	1000 x 1900 x 165
750 x 1500	DM/F	970 x 1720 x 140	1150 x 1900 x 165

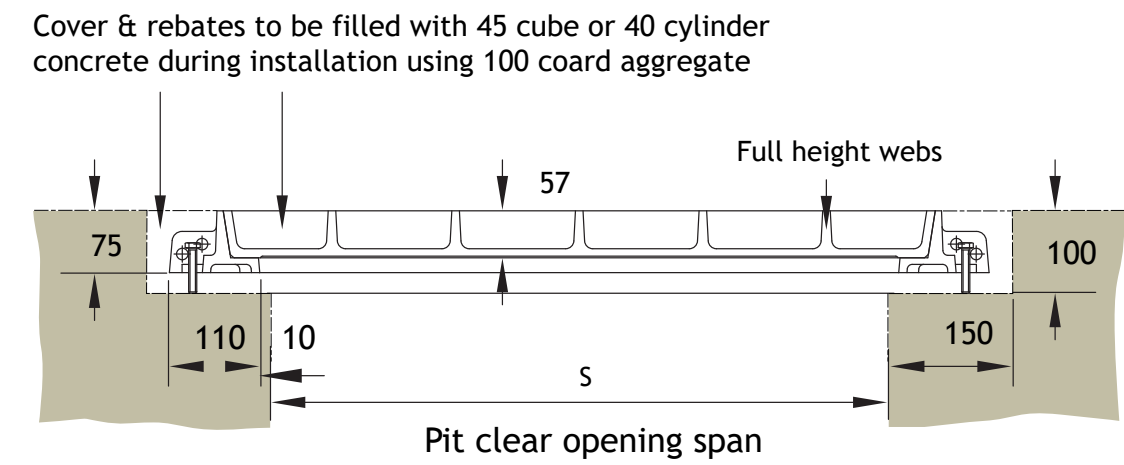
Technical Diagrams



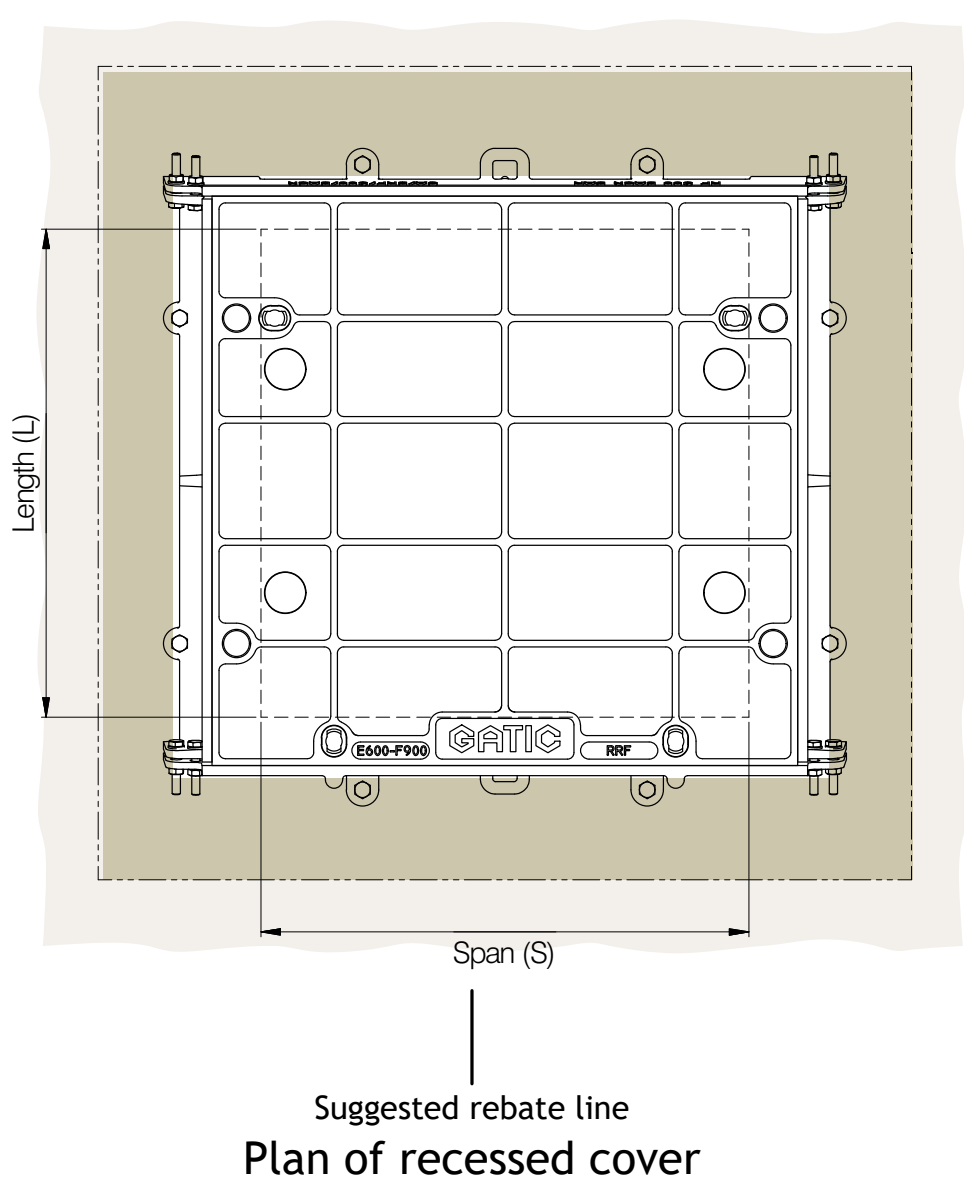
Type RRF



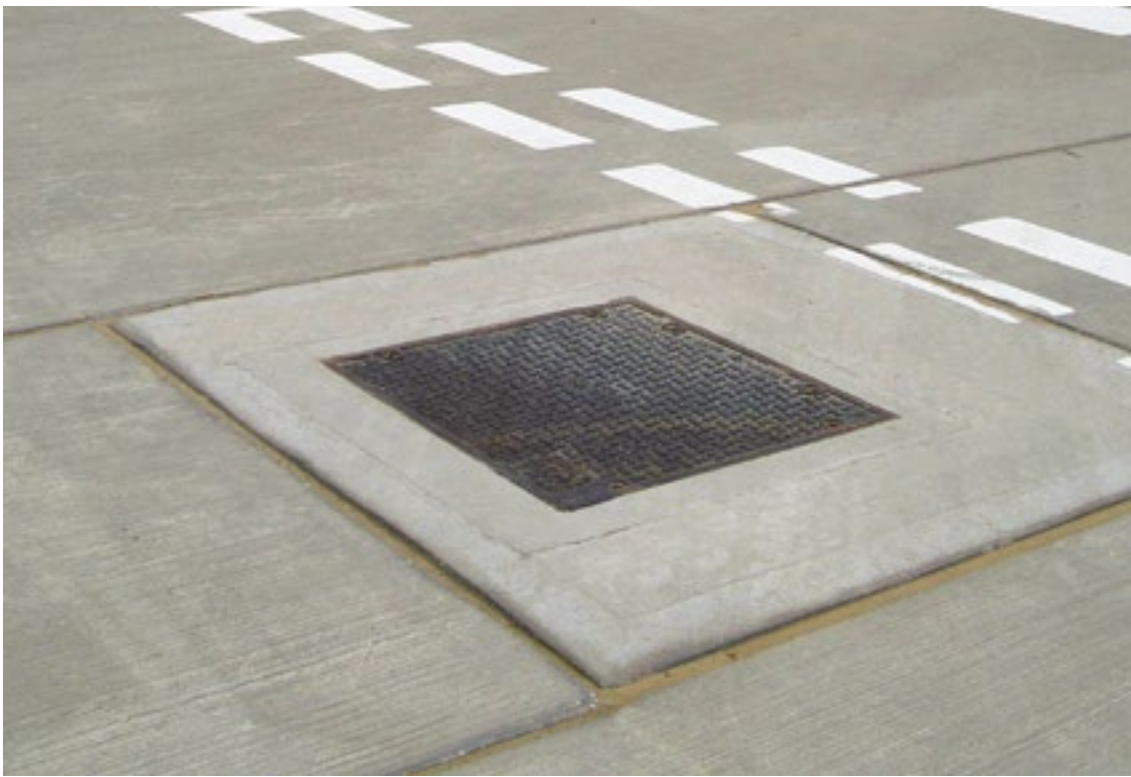
Type DM / DM/F



Type DLF

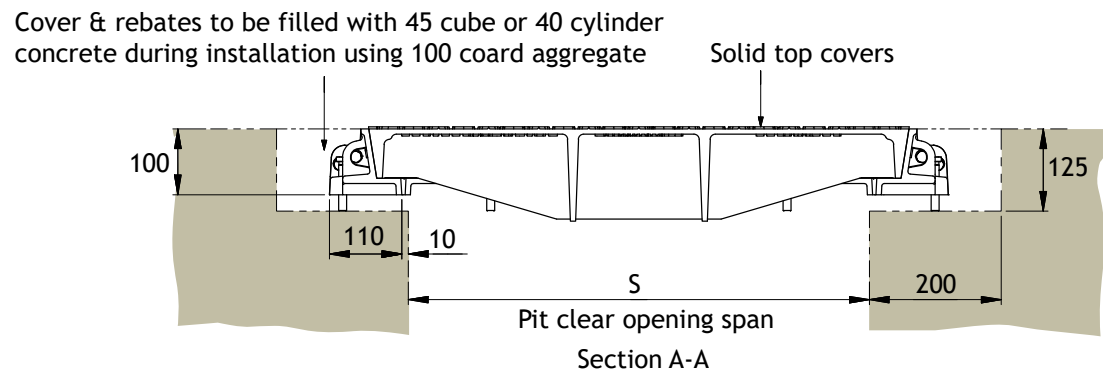


Single Solid Covers and Frames

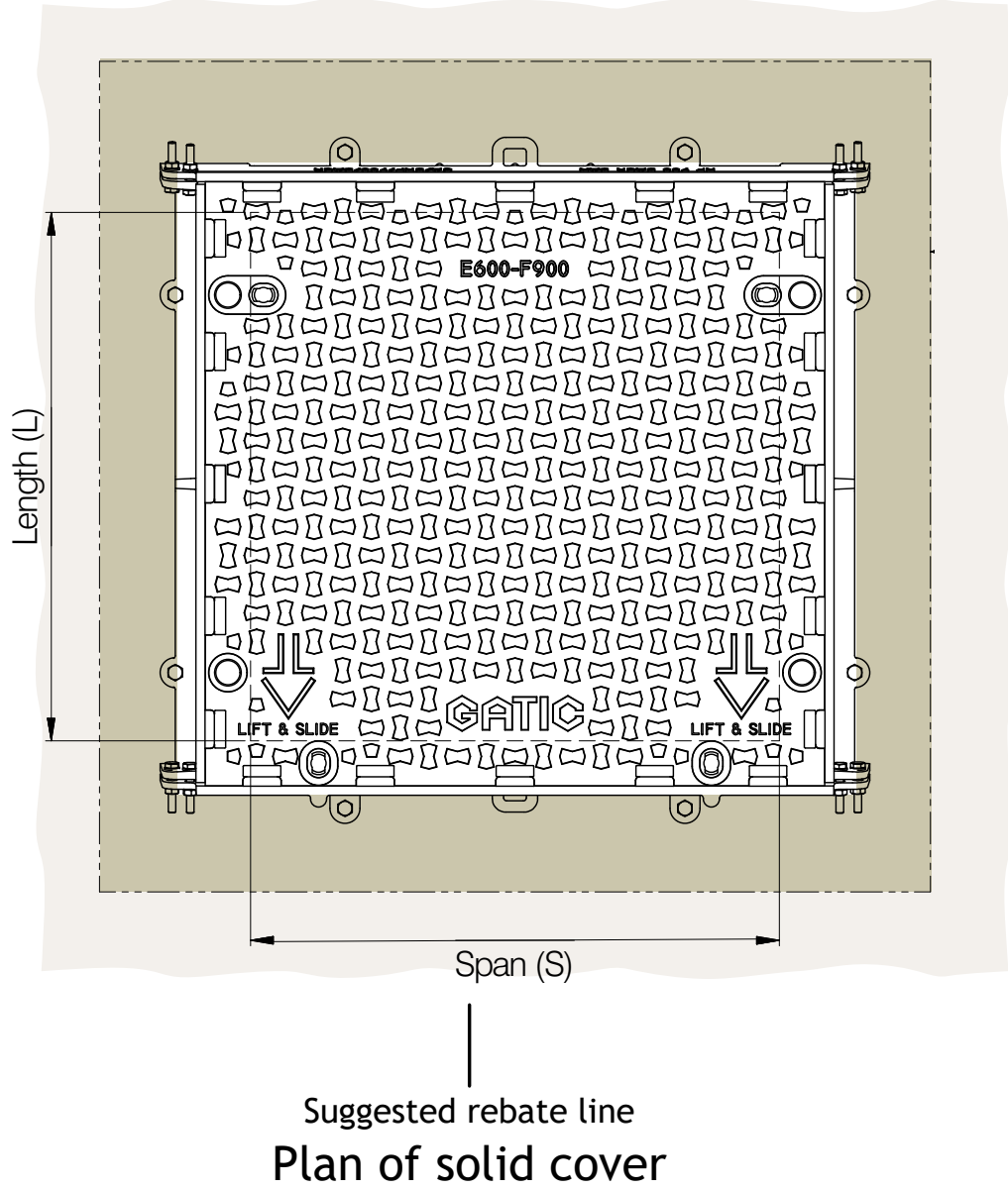


Pit clear opening sizes L x S	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
600 x 600	RSF	750 x 840 x 100	1000 x 1000 x 125
750 x 600	RSF	900 x 840 x 100	1150 x 1000 x 125
900 x 600	RSF	1050 x 840 x 100	1300 x 1000 x 125
700 x 700	RSF	850 x 940 x 100	1100 x 1100 x 125
600 x 750	RSF	750 x 990 x 100	1000 x 1150 x 125
750 x 750	RSF	900 x 990 x 100	1150 x 1150 x 125
900 x 750	RSF	1050 x 990 x 100	1300 x 1150 x 125
600 x 900	RSF	750 x 1140 x 100	1000 x 1300 x 125
750 x 900	RSF	900 x 1140 x 100	1150 x 1300 x 125
900 x 900	RSF	1120 x 1140 x 100	1300 x 1300 x 125
1000 x 1000	RSF	1220 x 1240 x 100	1400 x 1400 x 125

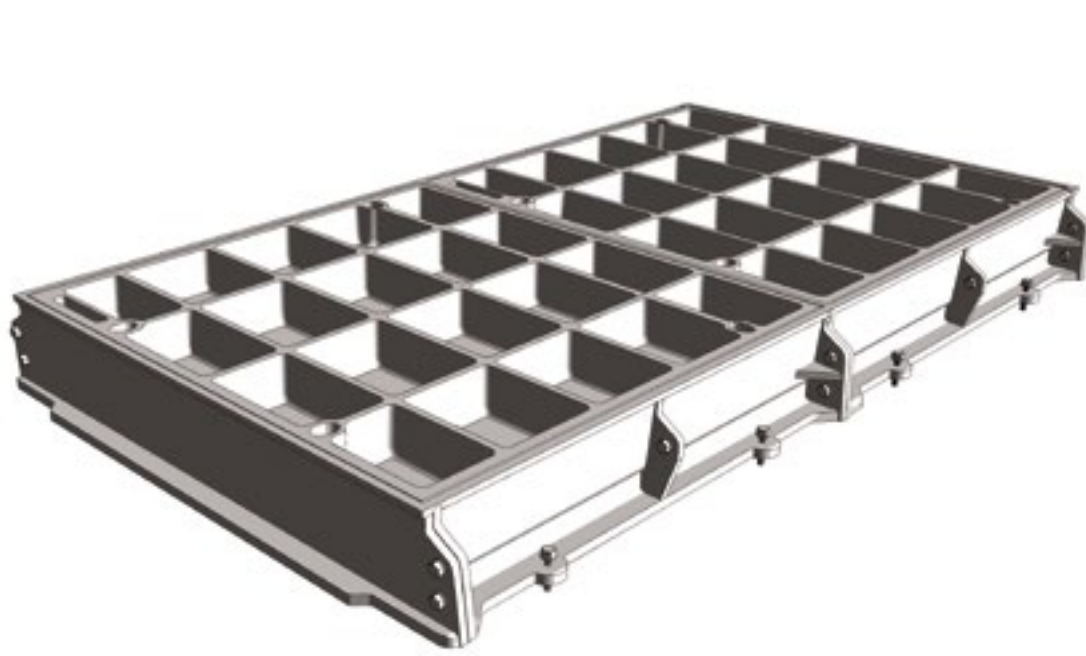
Technical Diagrams



Type RSF



Recessed Duct Covers and Frames

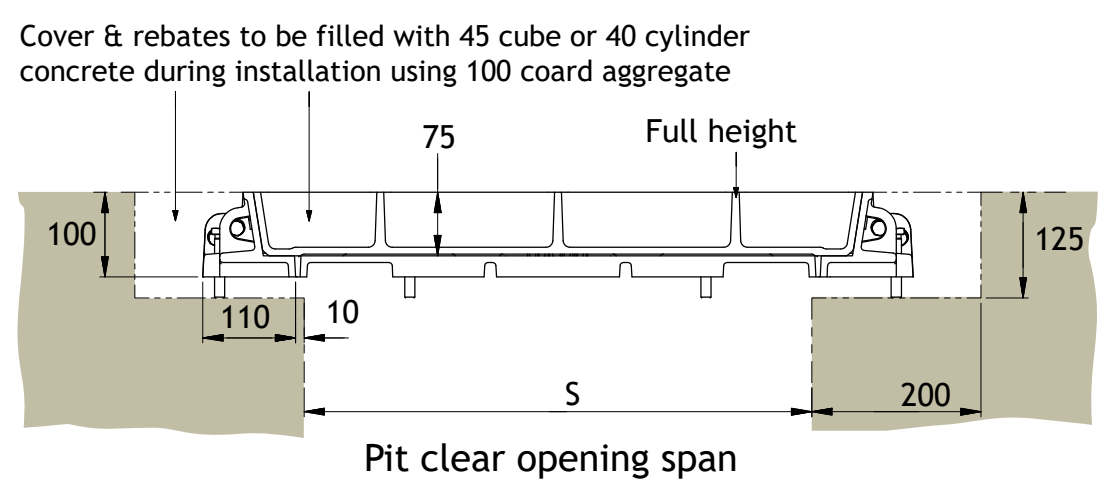


Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			1300	1450	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
300	DLF	(L+300) x 600 x 100	*	*	2	*	*	*	*	*	3	*	*	*
450	RRF	(L + 400) x 850 x 125	2	2	2	*	*	3	3	3	3	*	4	*
600	RRF	(L + 400) x 1000 x 125	2	2	2	2	2	3	3	3	3	3	4	3
750	RRF	(L + 400) x 1150 x 125	2	2	2	2	2	3	3	3	3	3	4	3
900	RRF	(L + 400) x 1300 x 125	2	2	2	2	2	3	3	3	3	3	4	3
1050	RRF	(L + 400) x 1450 x 125	2	*	*	*	*	3	*	*	*	*	4	*
1050	DM	(L + 400) x 1450 x 165	2	2	2	*	*	3	3	3	3	*	4	*
1200	RRF	(L + 400) x 1600 x 125	2	2	2	*	*	3	3	3	3	*	4	*
1500	DM/F	(L + 400) x 1900 x 165	2	2	2	*	*	3	3	3	3	*	4	*

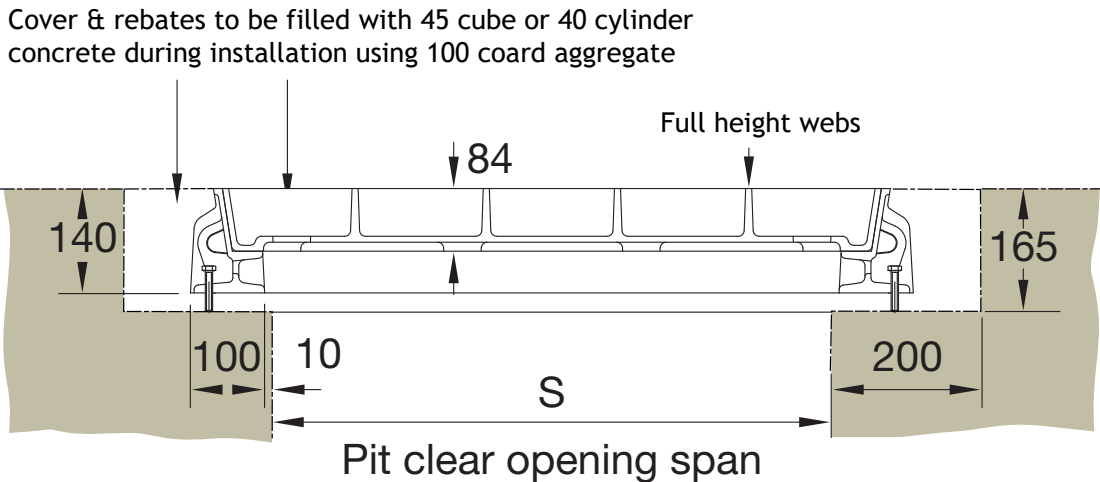
Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			2850	2900	3000	3150	3300	3400	3550	3700	3850	3900	4000	4150
300	DLF	(L+300) x 600 x 100	*	*	*	*	4	*	*	*	*	*	*	5
450	RRF	(L + 400) x 850 x 125	4	*	4	4	4	5	5	5	5	*	5	5
600	RRF	(L + 400) x 1000 x 125	4	3	4	4	4	5	5	5	5	4	5	5
750	RRF	(L + 400) x 1150 x 125	4	3	4	4	4	5	5	5	5	4	5	5
900	RRF	(L + 400) x 1300 x 125	4	3	4	4	4	5	5	5	5	4	5	5
1050	RRF	(L + 400) x 1450 x 125	*	*	*	*	*	5	*	*	*	*	*	*
1050	DM	(L + 400) x 1450 x 165	4	*	4	4	4	5	5	5	5	*	5	5
1200	RRF	(L + 400) x 1600 x 125	4	*	4	4	4	5	5	5	5	*	5	5
1500	DM/F	(L + 400) x 1900 x 165	4	*	4	4	4	5	5	5	5	*	5	5

* Indicates standard sizes not available. The number shown indicates the quantity of cover parts. Other spans of covers are available upon request.
Contact gatictech@alumascwms.co.uk for further information.

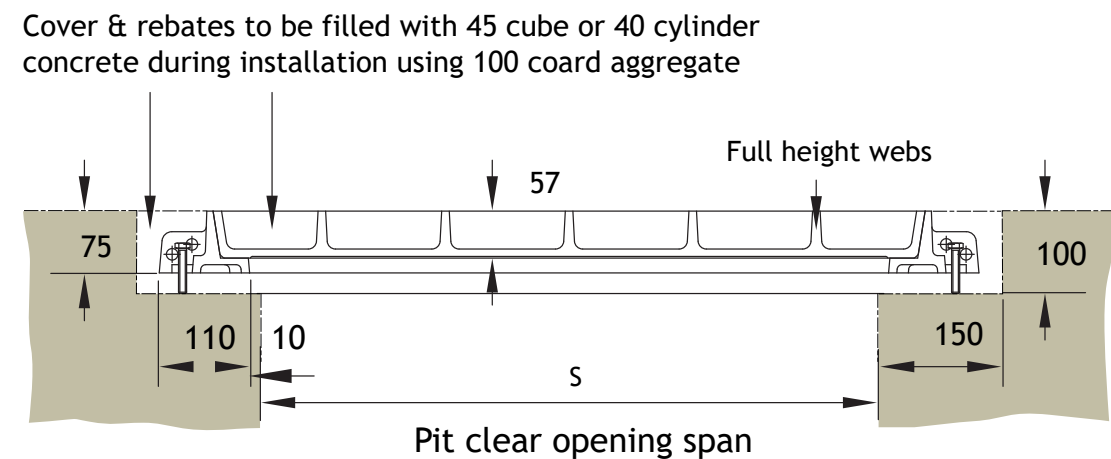
Technical Diagrams



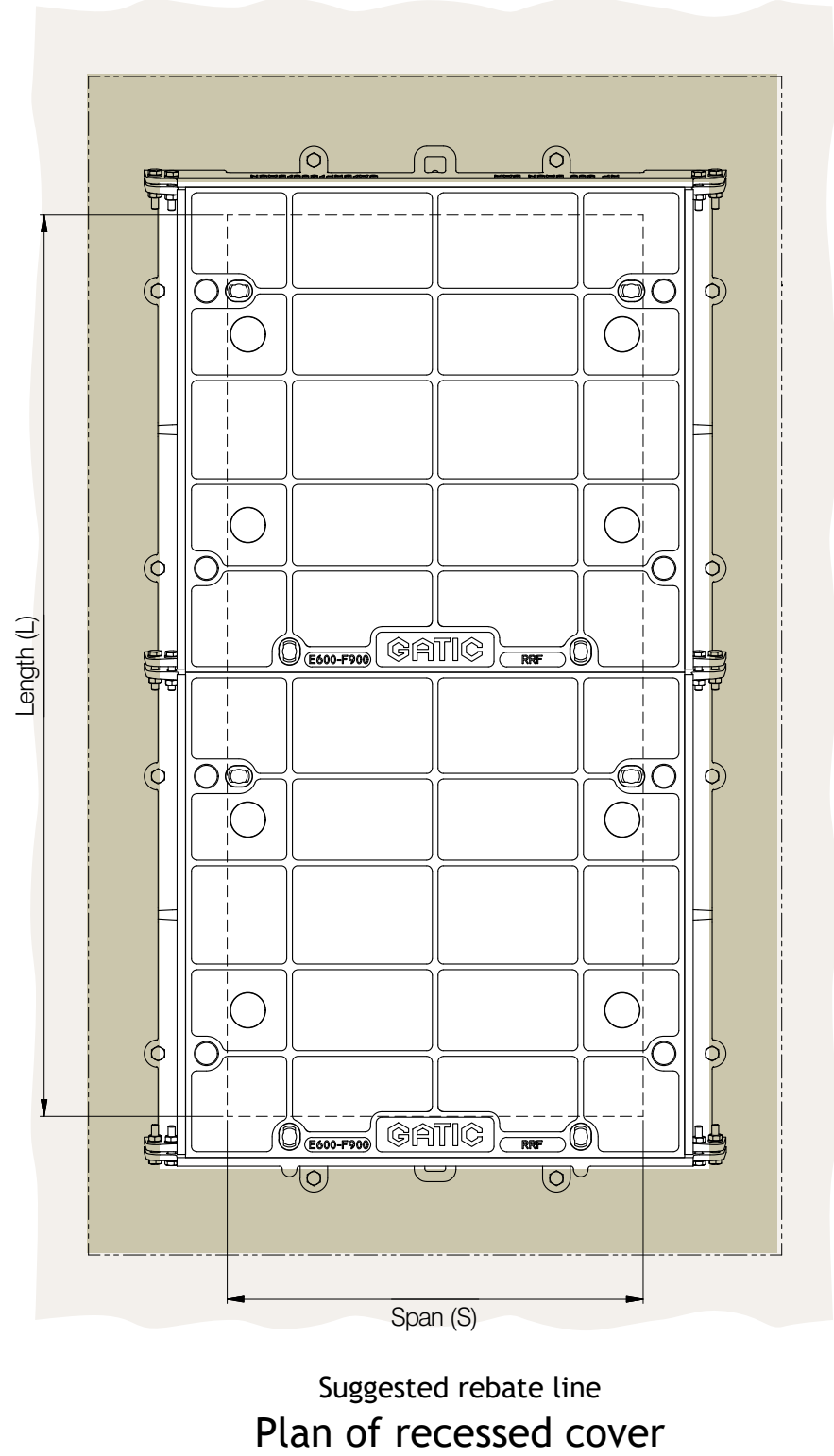
Type RRF



Type DM/F



Type DLF



Solid Top Duct Covers and Frames

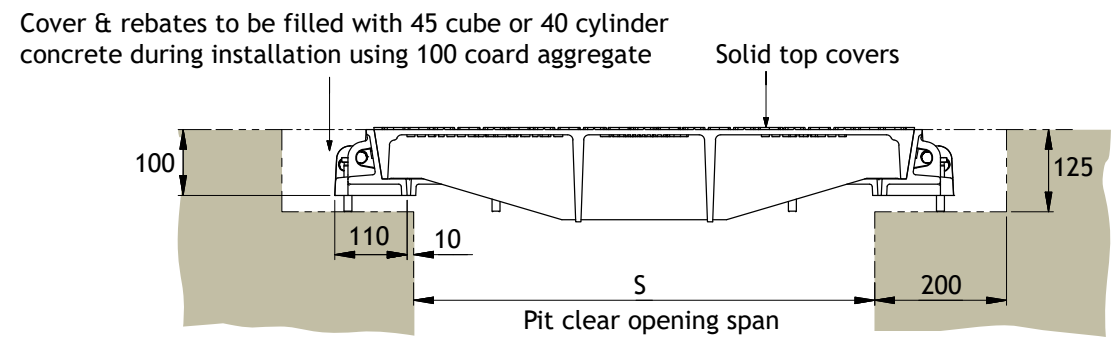


Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)												
			1300	1450	1500	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
600	RSF	(L + 400) x 1000 x 125	2	2	*	2	2	2	3	3	3	3	3	4	3
700	RSF	(L + 400) x 1100 x 125	*	*	2	*	*	*	*	*	3	*	*	*	*
750	RSF	(L + 400) x 1150 x 125	2	2	*	2	2	2	3	3	3	3	3	4	3
900	RSF	(L + 400) x 1300 x 125	2	2	*	2	2	2	3	3	3	3	3	4	3

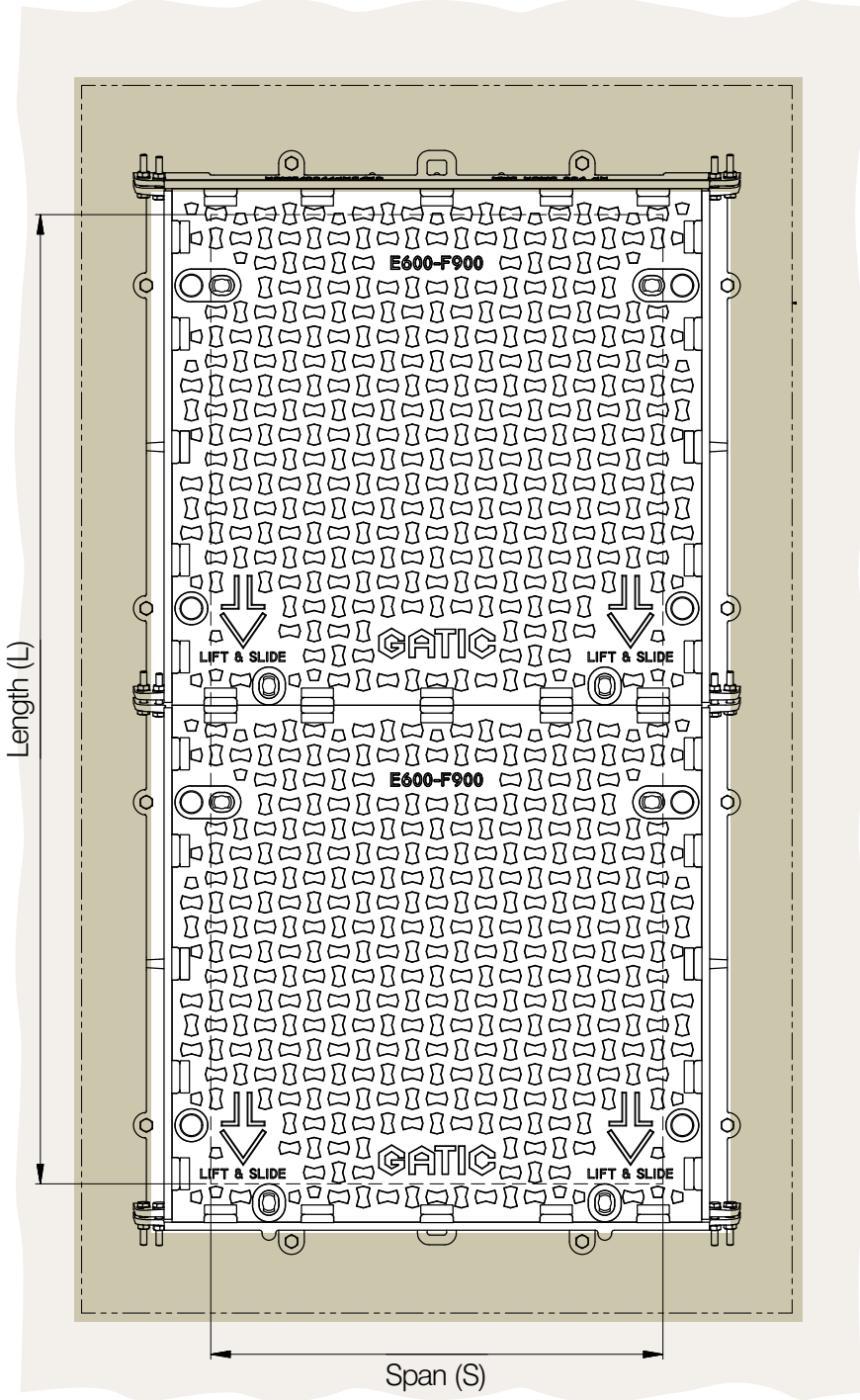
Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)												
			2850	2900	3000	3100	3150	3300	3400	3550	3700	3850	3900	4000	4150
600	RSF	(L + 400) x 1000 x 125	4	3	4	*	4	4	5	5	5	5	4	5	5
700	RSF	(L + 400) x 1100 x 125	*	*	*	4	*	*	*	*	*	*	5	*	*
750	RSF	(L + 400) x 1150 x 125	4	3	4	*	4	4	5	5	5	5	4	5	5
900	RSF	(L + 400) x 1300 x 125	4	3	4	*	4	4	5	5	5	5	4	5	5

* Indicates standard sizes not available. The number shown indicates the quantity of cover parts. Other spans of covers are available upon request. Contact gatictech@alumascwms.co.uk for further information.

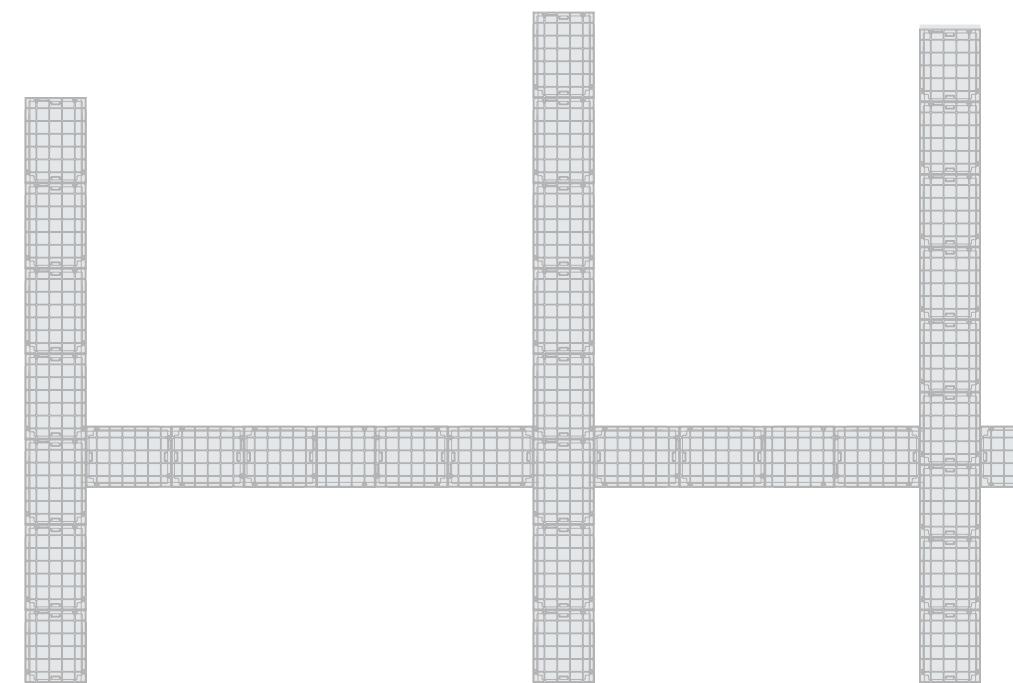
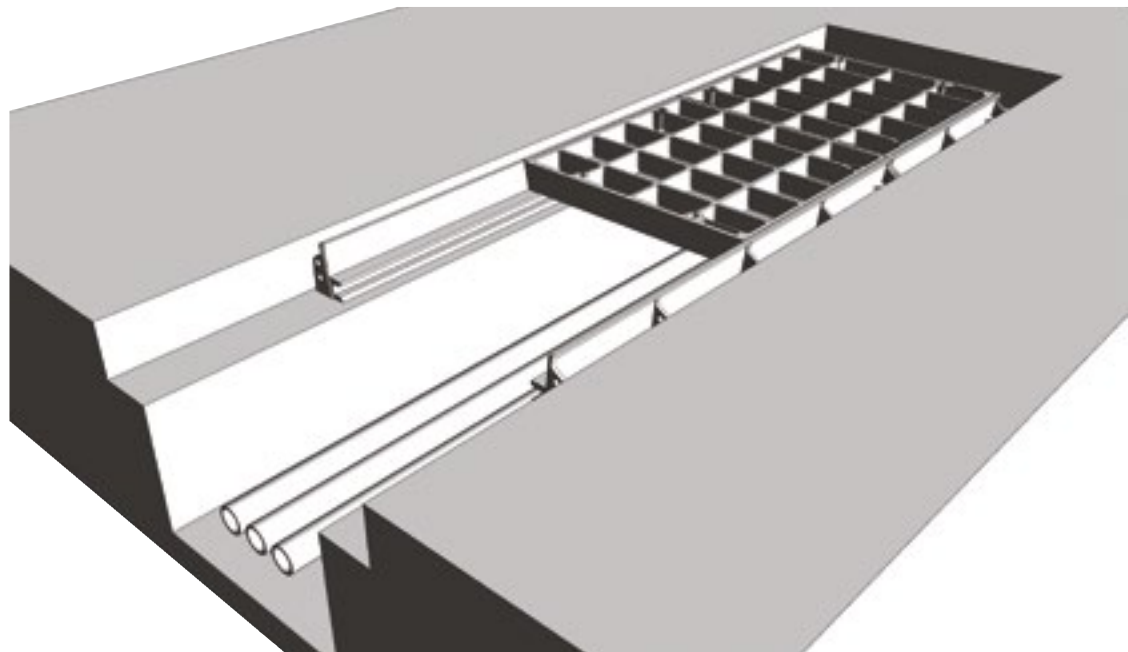
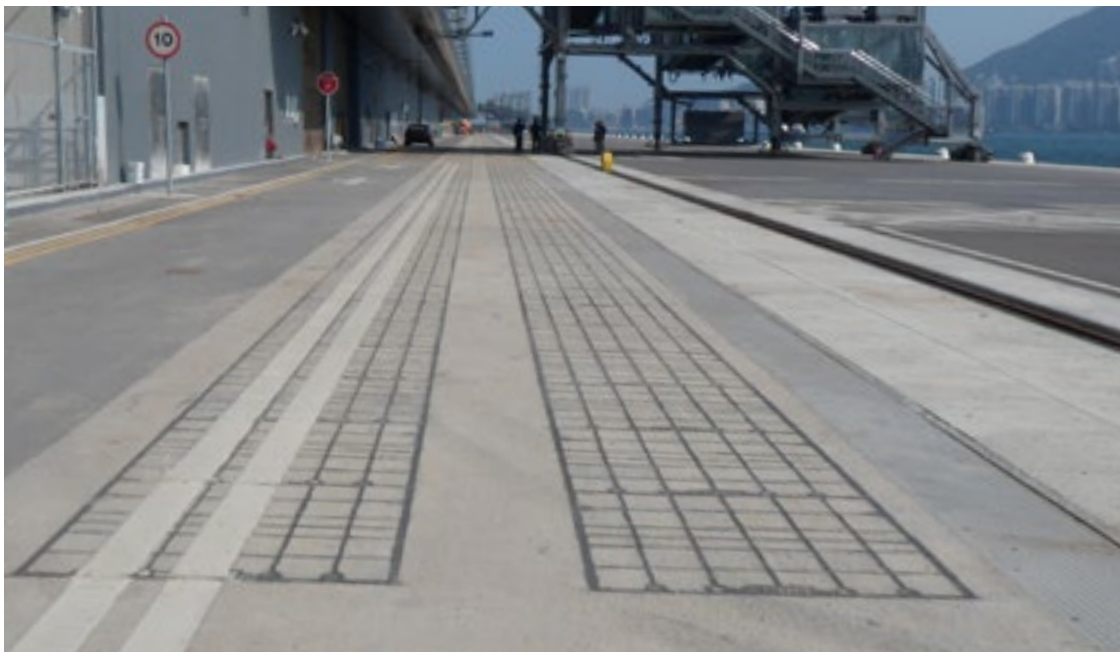
Technical Diagrams



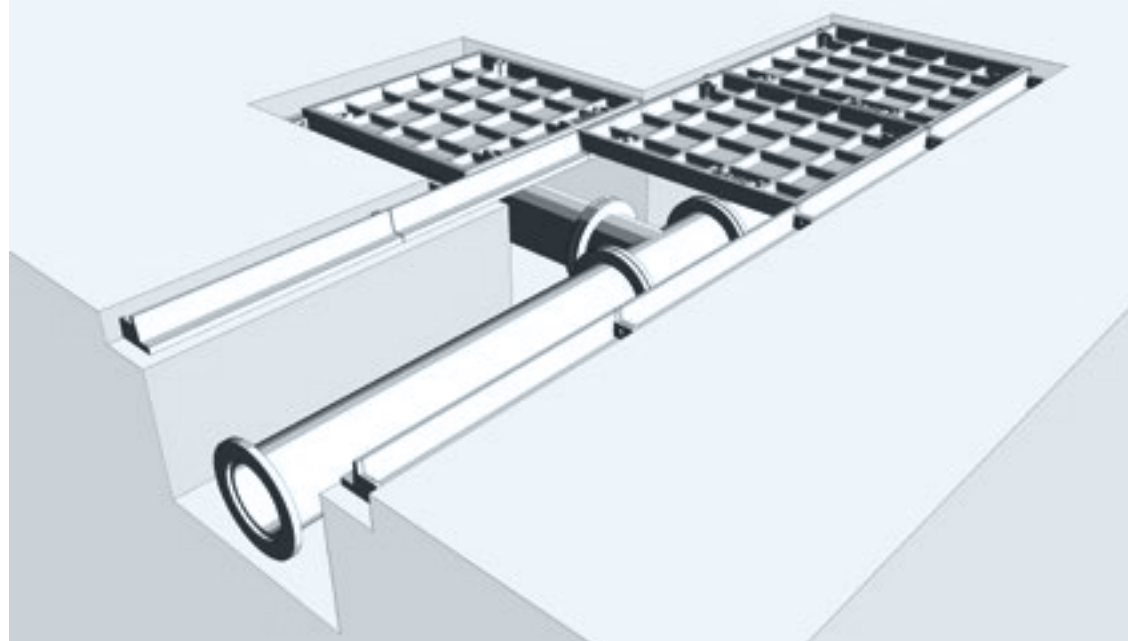
Type RSF



Continuous Recessed Trench Covers & Frames



Pit clear opening span	Cover type
300	DLF
450	RRF
600	RRF
750	RRF
900	RRF
1050	RRF
1200	RRF
1500	DM/F

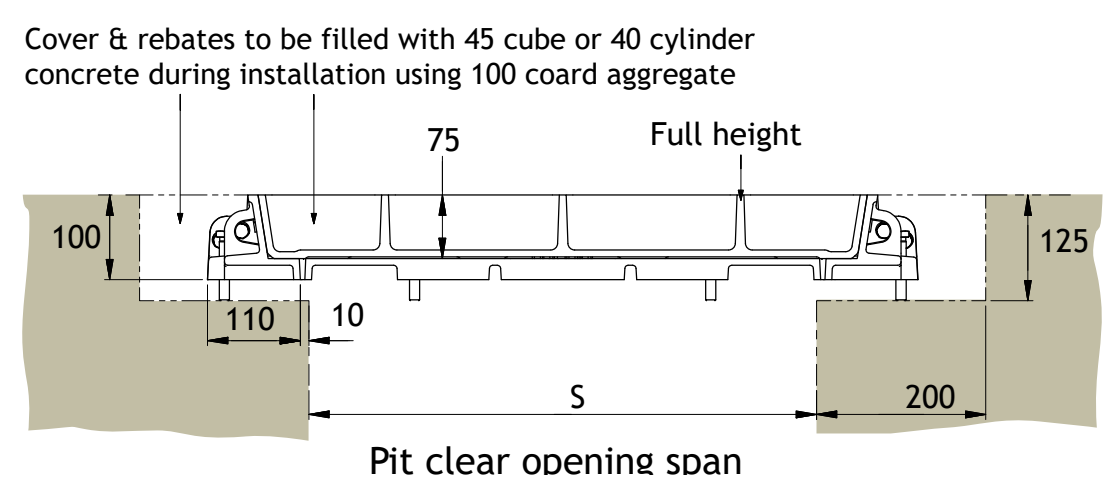


Gatic covers can be formed to make continuous trenches or layouts providing total access to services below.

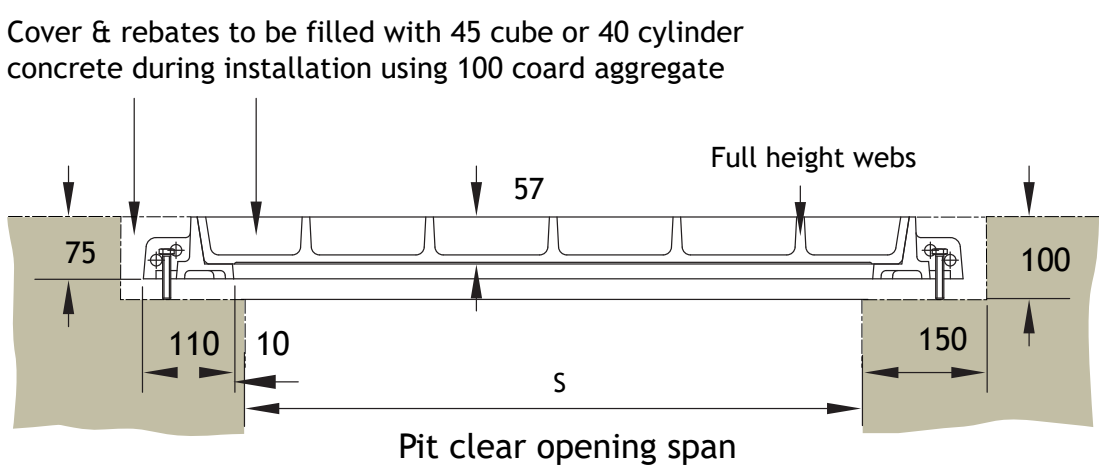
Construction drawings are required so that Gatic cover layout drawings can be prepared.

Note: Other spans of covers are available upon request. Contact gatictech@alumascwms.co.uk for further information.

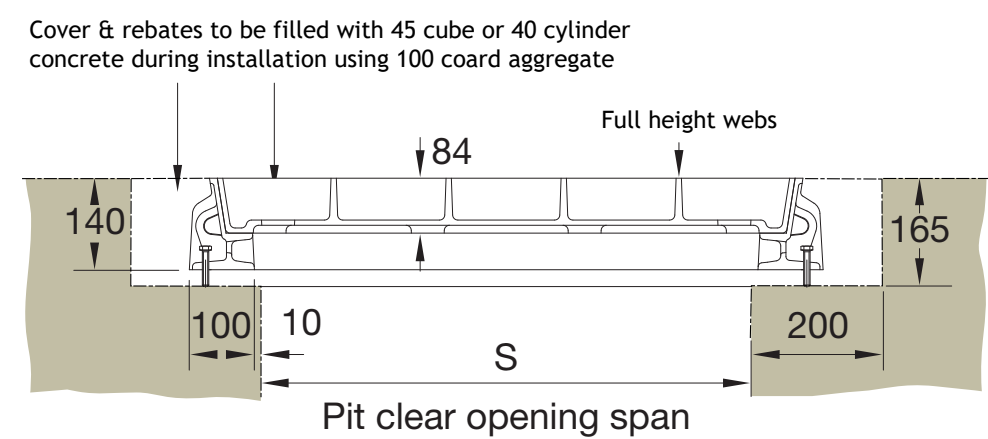
Technical Diagrams



Type RRF

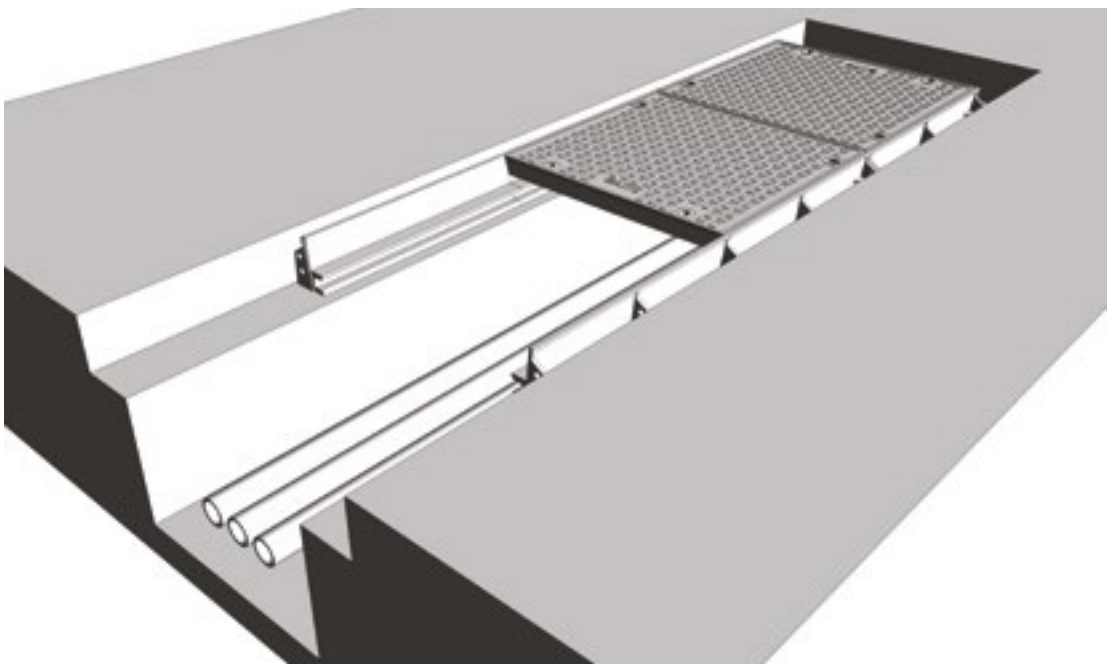


Type DLF



Type DM/F

Continuous Solid Trench Covers & Frames

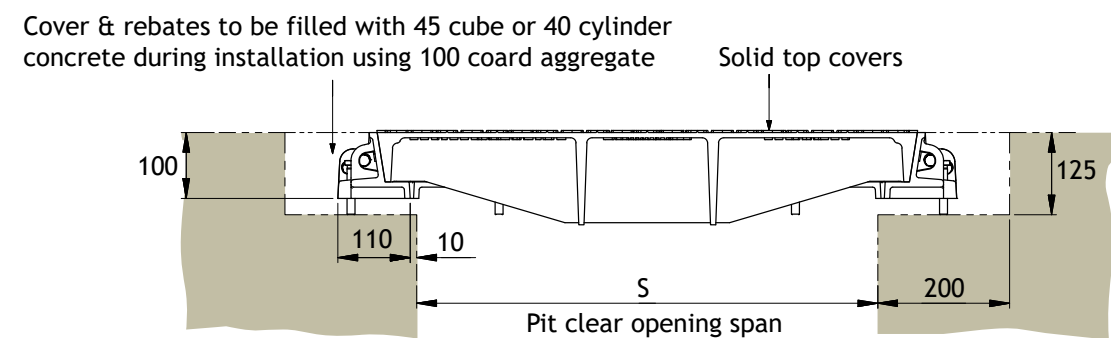


Pit clear opening span	Cover type
600	RSF
700	RSF
750	RSF
900	RSF

Standard Solid top covers are supplied in straight runs. Junctions and splays can be achieved by the inclusion of localised recessed covers. Refer to our technical department for more information.

Note: Solid top covers can only be supplied in continuous straight runs

Technical Diagrams

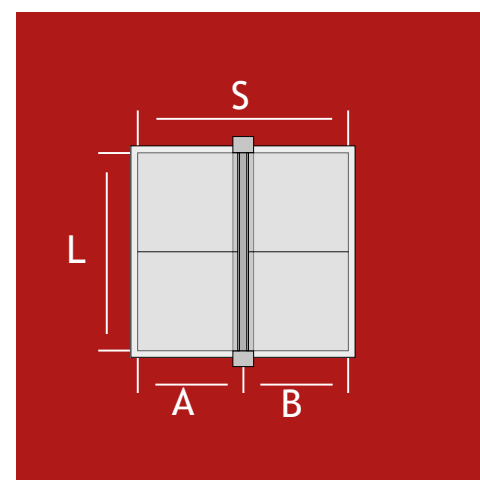
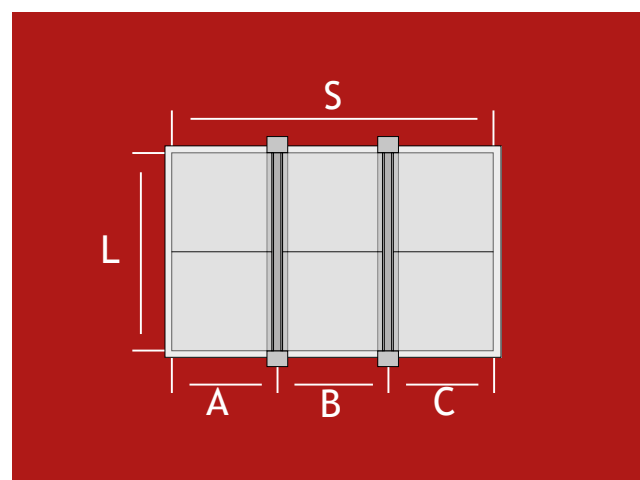
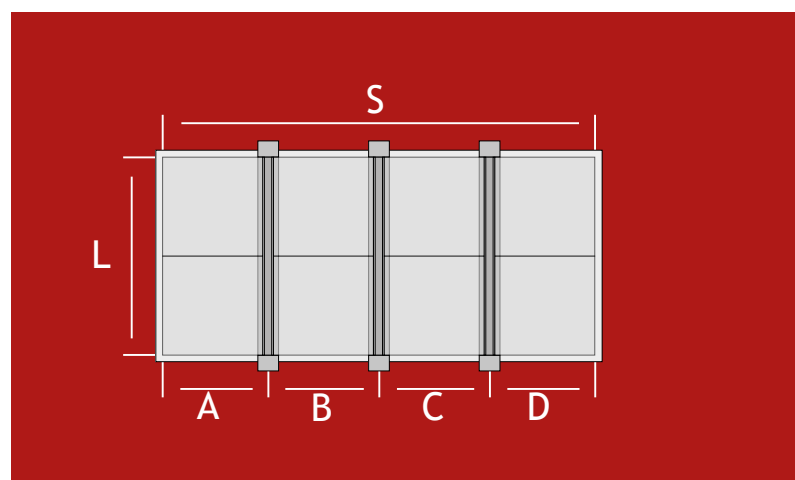
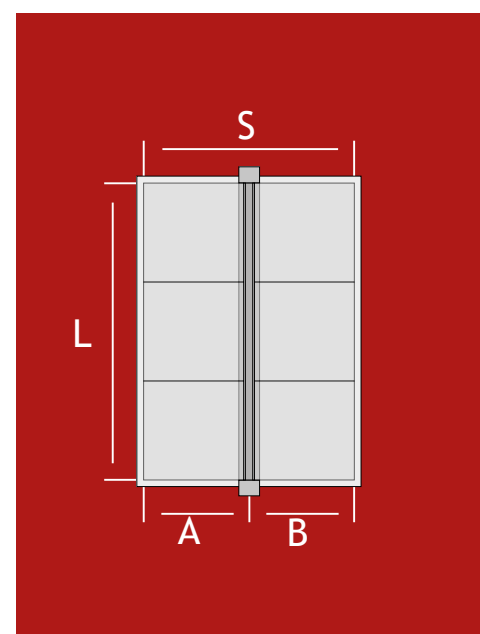
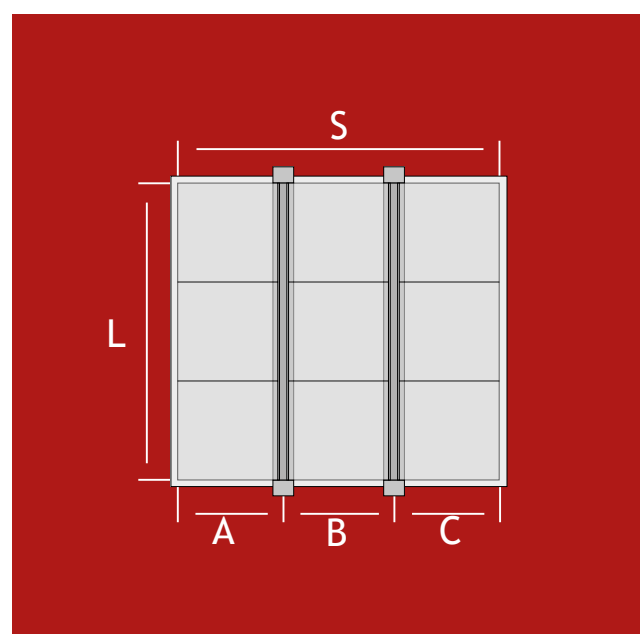
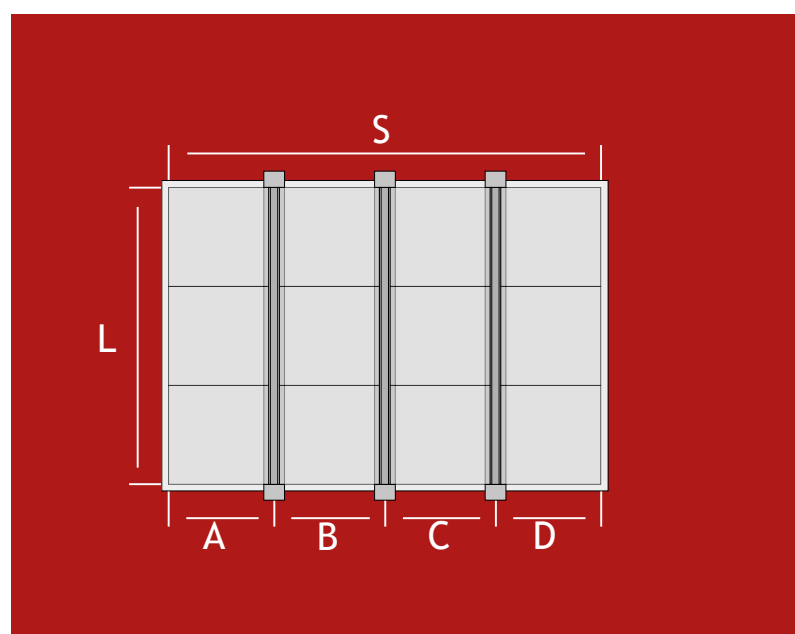
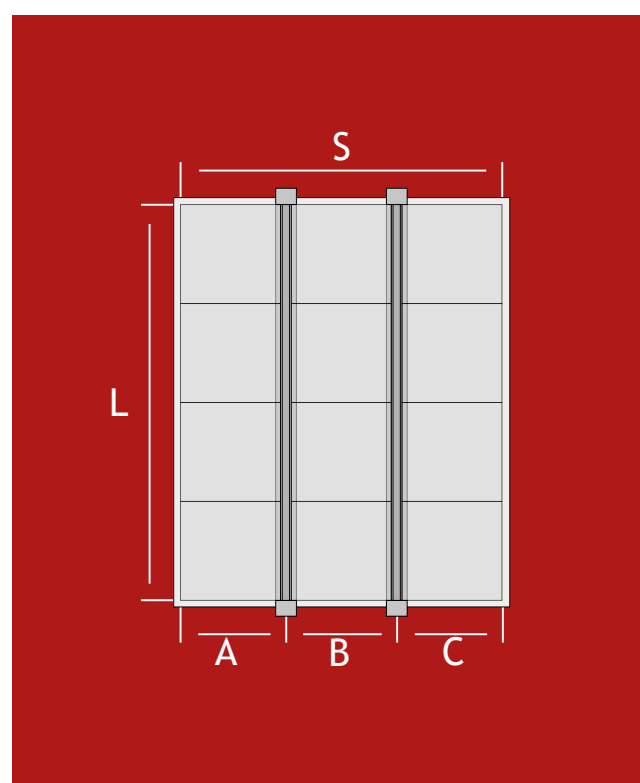
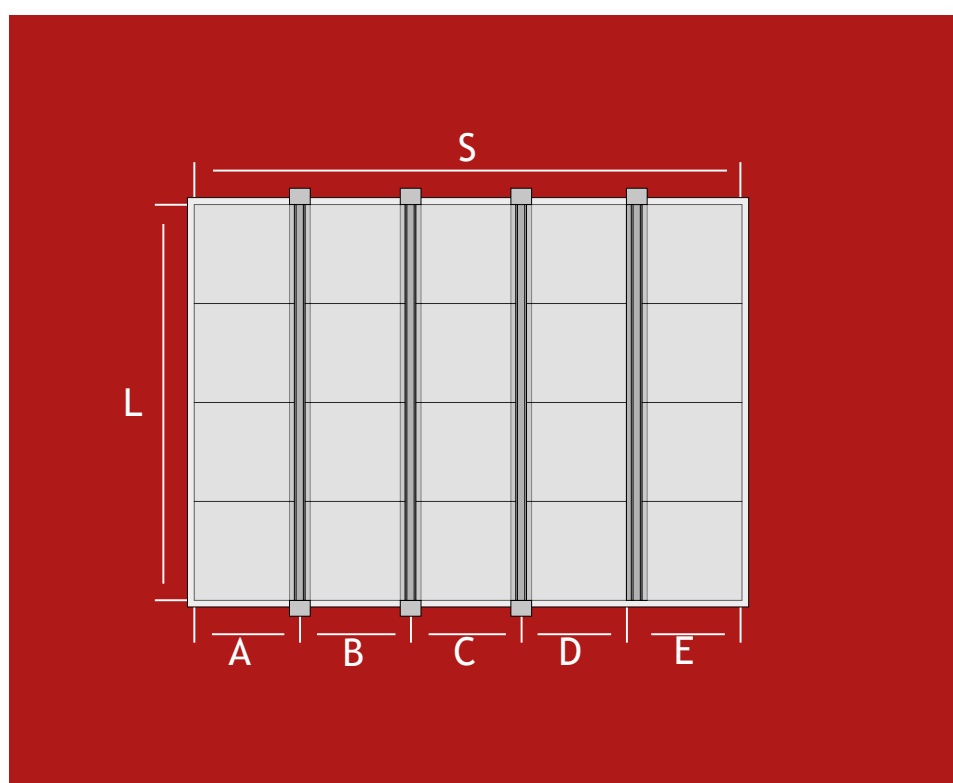


Type RSF

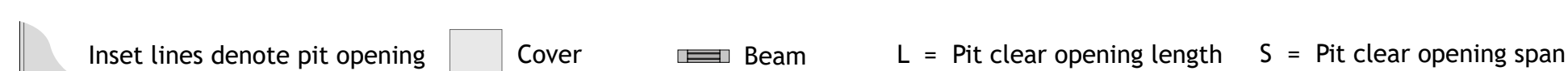
Product Selection

Refer to the table to identify which cover and beam configuration you require against pit clear opening length (L) and pit clear opening span (S). All dimensions are in millimetres. Gatic can achieve sizes beyond the extent of those listed in the table - please speak to the Gatic technical team for further details.

Note: All dimensions shown in red are made up using 700 x 700 solid top covers. Not compatible with other lengths

Pit clear opening span (S) mm									
		2 parts 1 beam		3 parts 2 beams		4 parts 3 beams		5 parts 4 beams	
		1380 1530 1580 1680 1830 1980		2160 2310 2460 2460 2610 2760 2910 3060		2940 3090 3240 3340 3390 3540 3690 3840 3990 4140		3720 3870 4020 4170 4220 4320 4470 4620 4770 4920 5070 5220	
Pit clear opening length (L) mm	2 parts	1300 1450 1500 1600 1750 1900					10 part (2x5) multispan cover with 4 removable support beams		
	3 parts	2000 2150 2300 2300 2450 2600 2750 2900					15 part (3x5) multispan cover with 4 removable support beams		
	4 parts	2700 2850 3000 3100 3150 3300 3450 3600 3750 3900					20 part (4x5) multispan cover with 4 removable support beams		
	Beam centres mm	A B C D E	690 690 790 840 840 990 990	690 690 790 840 840 990 990	690 780 690 840 880 840 930 1080 990 990 1080	690 780 780 780 880 790 690 840 840 990 990 840 990 1080 1080	690 780 780 780 880 790 690 840 840 990 990 840 990 1080 1080	690 780 780 780 880 790 690 840 840 990 990 840 990 1080 1080	690 780 780 780 880 790 690 840 840 990 990 840 990 1080 1080

Note: for other pit clear opening sizes please refer to our technical department



Multispan Covers and Frames



Type RRF recessed



Type RSF solid top

Beam Size

The required beam size for Multispan covers is dependent on the pit clear opening length and the loading group.

The table shows maximum beam length against beam size. The removable support beams are supplied by Gatic.

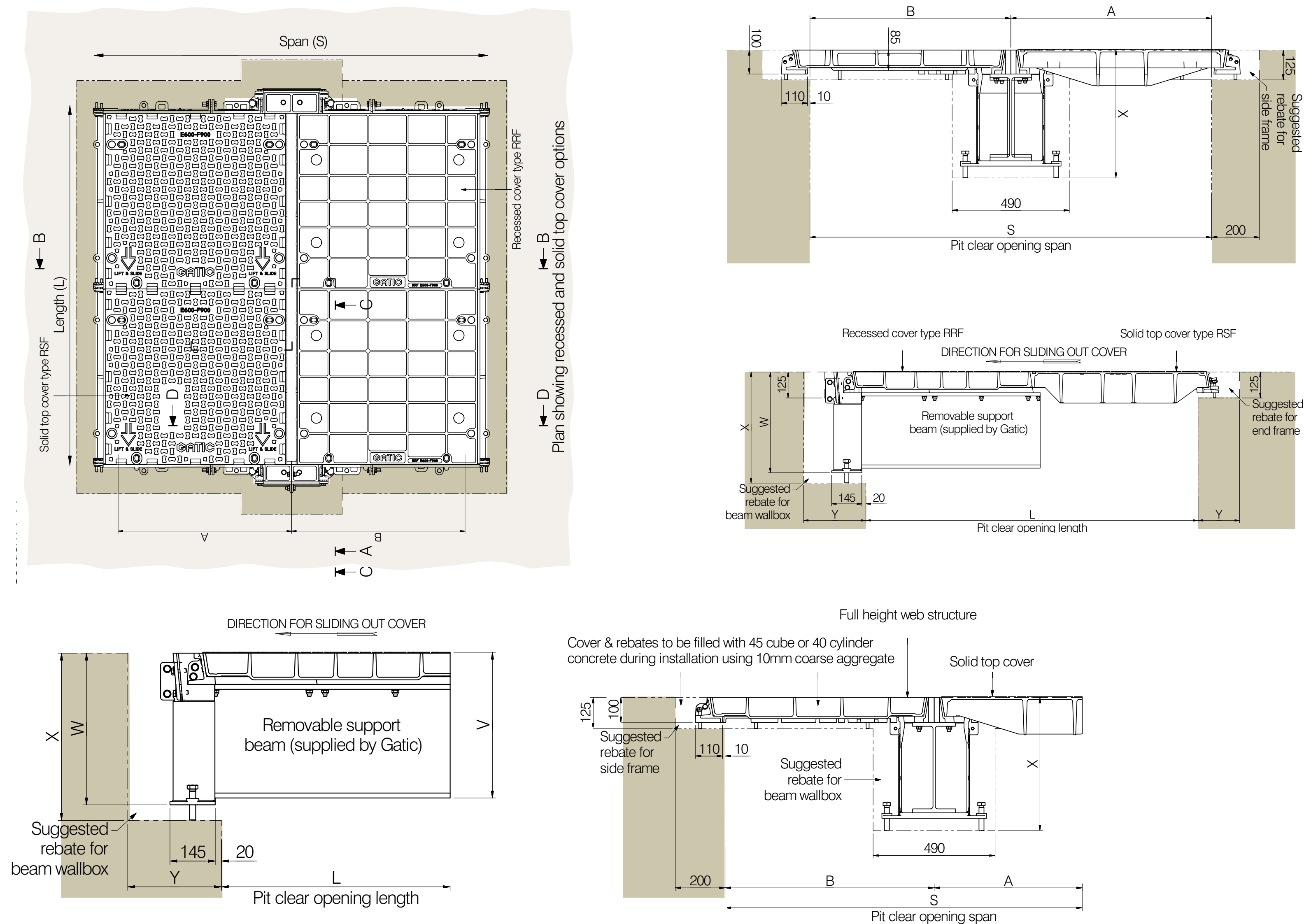
The table also indicates dimensions of the beam wallbox and rebate to suit different beam sizes. See also the accompanying section details.

Support beam size chart

Removable support beam size	Max pit clear opening length (L)	Beam wallbox dimensions			
		V	W	X	Y
356 x 171 x 67 kg/m U.B	1750	465	487	535	300
457 x 152 x 82 kg/m U.B	2600	568	590	635	300
533 x 210 x 122 kg/m U.B	3600	647	669	715	300
610 x 229 x 140 kg/m U.B	3900	719	741	790	350

Note: Removable support beams are supplied by Gatic. For clear opening lengths longer than 3900 please refer to our technical department.

Technical Diagrams



Assist Lift Hinged Covers

Assist lift covers facilitate one person opening of a F900 load rated ductile iron cover either as an individual cover or as part of a multi cover arrangement. The modular nature of the Gatic system of removable covers is designed to provide sealed, uninterrupted access to the services below whether as a single cover, duct or multispan arrangement with removable support beams.

A removable system for virtually any size of pit configuration and loading can be developed. Gatic covers are designed to protect and give access to a diverse range of underground services. Examples include, manhole/pump/valve/transformer chambers, pipe and cable service trenches, cable draw pits, lighting, fuel and fire hydrant pits, machinery/plant access chambers, tunnel shaft access chambers, combined sewer/overflow chambers and storm tie down pits.

Gatic specialise in the design of covers for airports, container ports, dockyards and industrial areas where extreme wheel loadings from aircraft, container carrying equipment and other vehicles may be encountered. Covers are available with solid cast iron tops. Assist lift covers can be incorporated into larger covers for other loading categories upon request.

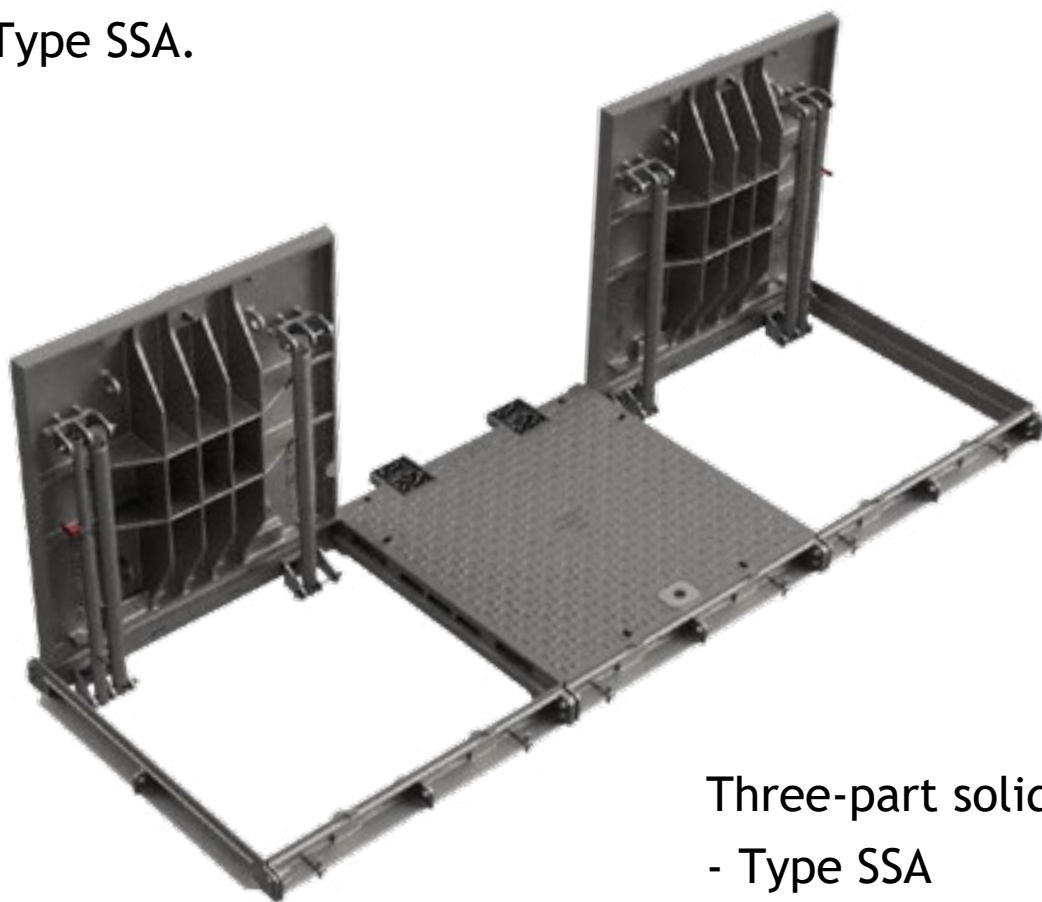
Gatic stand-alone AssistLift covers are available in a variety of configurations.



Single, solid-top AssistLift cover - Type SSA



Two-part solid-top cover - Type SSA.



Three-part solid-top cover - Type SSA

Gatic solid top covers and frames with one AssistLift covers at the reverse end of the unit. These can be supplied in standard units as per the sizes shown on the chart below. Longer lengths are available. Number of cover parts are shown in the boxes under the standard pit clear opening length (L)

Pit clear opening span (S)	Cover type	Standard pit clear opening length (L)						
		750	1600	2450	3300	4150	5000	5850
750	SSA	1	2	3	4	5	6	7

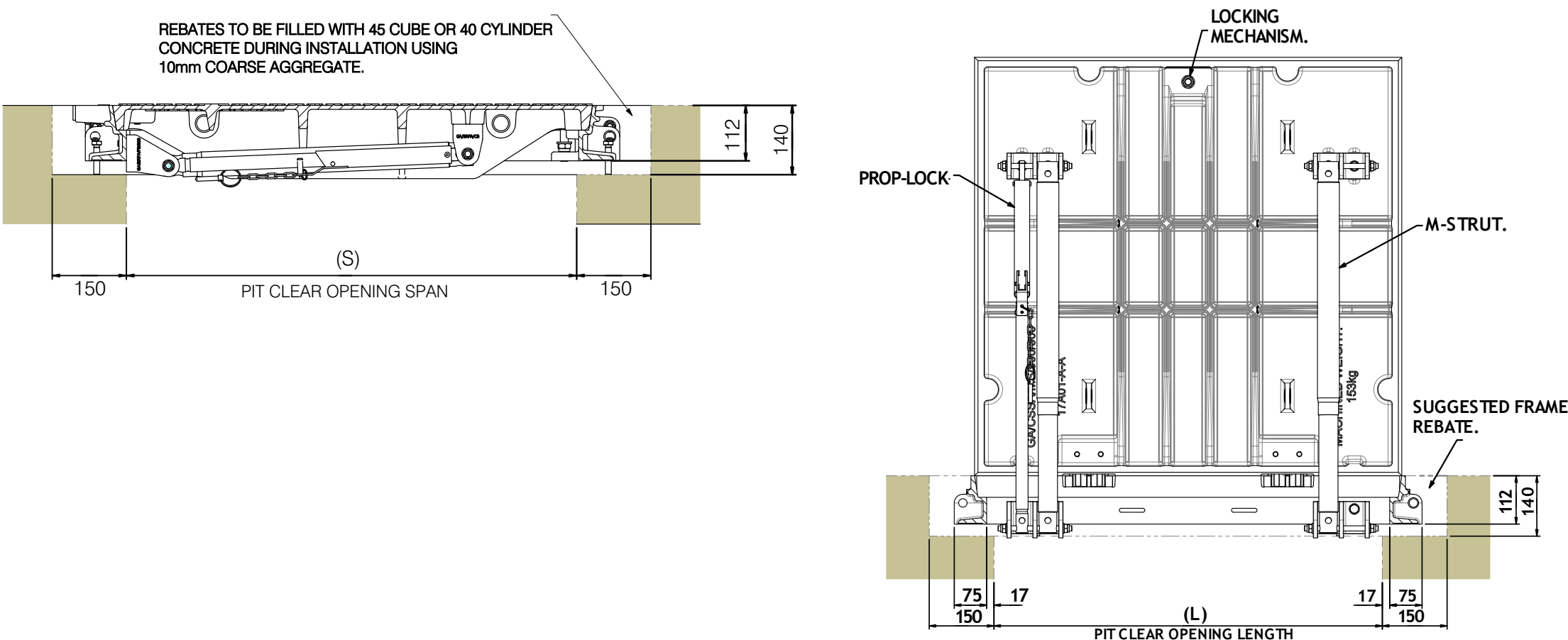
Pit clear opening span (S)	Cover type	Standard pit clear opening length (L)						
		900	1900	2900	3900	4900	5900	6900
900	SSA	1	2	3	4	5	6	7

Support frame between covers is removable to give uninterrupted access to the chamber below

Gatic are usually able to offer assit lift on all load classes and covers within this brochure - installation dependant.

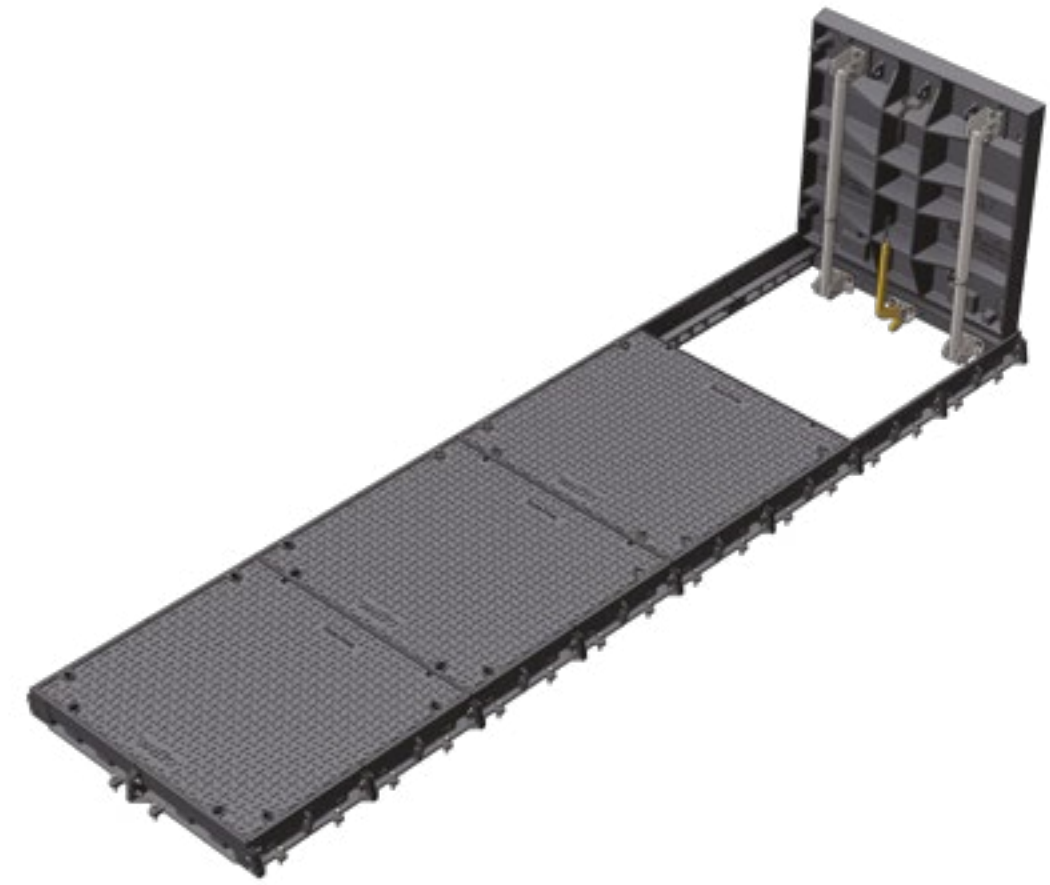
Please speak to Gatic technical for the range of options available for your project.

Technical Diagrams





Single AssistLift cover - Type SFA



Two-part solid-top cover - Type RSF with
end AssistLift cover - Type SFA

Four-part solid-top cover - Type RSF with
end AssistLift cover - Type SFA

Gatic solid top covers and frames with one AssistLift covers at the reverse end of the unit. These can be supplied in standard units as per the sizes show on the chart below.

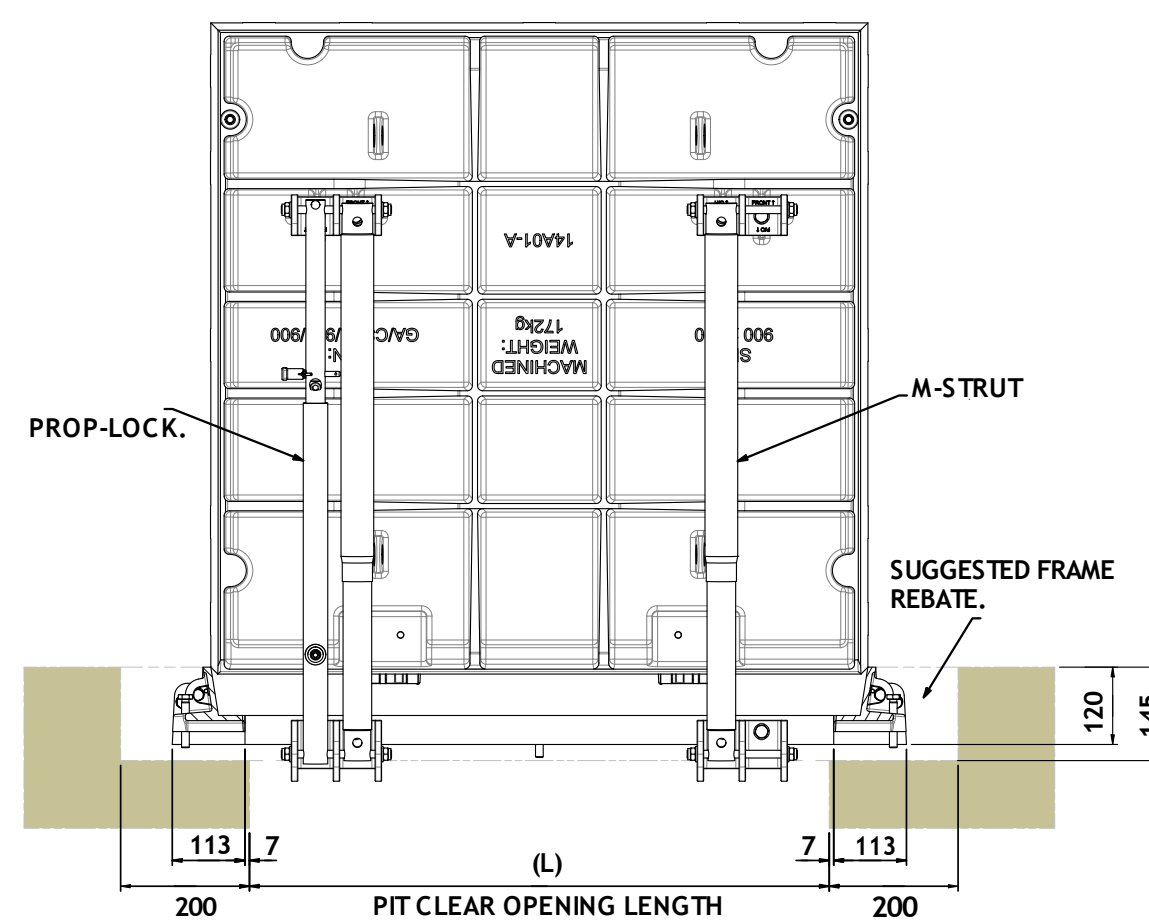
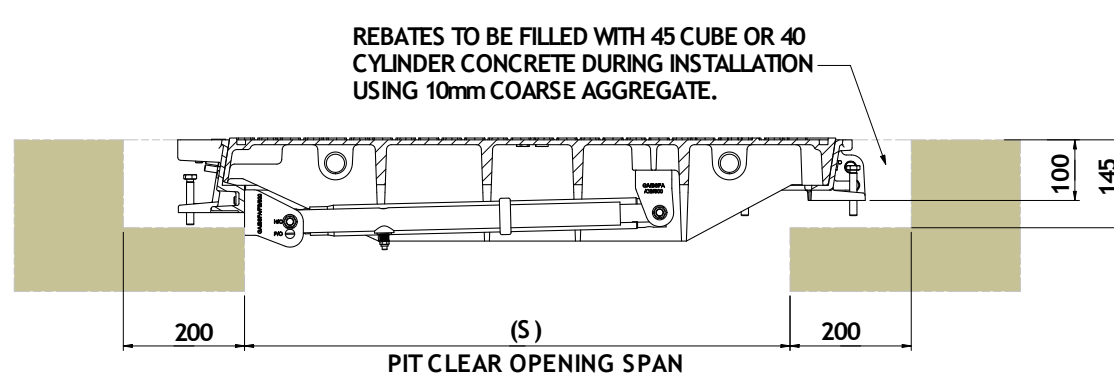
Longer lengths are available.

Number of cover parts are show in the boxes under the standard pit clear opening length (L)

Pit clear opening span (S)	Cover type	Standard pit clear opening length (L)																	
		750	900	1450	1600	1750	1900	2150	2300	2450	2600	2750	2850	2900	3000	3150	3300	3450	3550
750	SFA	1	*	*	2	2	*	3	3	3	3	3	4	*	4	4	4	4	5
900	SFA		1	*	2	2	2	*	3	3	3	3	*	3	4	4	4	4	*

Pit clear opening span (S)	Cover type	Standard pit clear opening length (L)																
		3600	3700	3750	3850	3900	4000	4150	4250	4300	4400	4450	4550	4600	4700	4750	4850	4900
750	SFA	4	5	4	5	*	5	5	6	5	6	5	6	5	6	5	6	*
900	SFA	4	5	4	5	4	5	5	*	5	6	5	6	5	6	5	6	5

Technical Diagrams



Assist Lift Multispan Covers & Frames

Gatic multispan access covers incorporate removable support beams so that much larger pit openings can be covered. The table shows standard multispan units that can have an AssistLift cover installed at the back end of the unit. In some cases, more than one AssistLift cover can be fitted

These heavy duty covers are specifically designed for airports, container ports and docks where abnormal wheel loadings from heavy vehicles are envisages

Assist Lift covers can also be fitted to the front end of a unit providing it is in a different span to an Assist Lift cover at the back end.

For further assistance specifying your Assist Lift requirement within a multispan arrangement, please contact our technical team



		Pit clear opening span (S) mm																											
		2 parts 1 beam				3 parts 2 beams				4 parts 3 beams				5 parts 4 beams															
		1530	1680	1830	1980	2310	2460	2610	2760	2910	3060	3090	3240	3390	3540	3690	3840	3990	4140	3870	4020	4170	4320	4470	4620	4770	4920	5070	5220
Pit clear opening length (L) mm	2 parts																												
		4 part (2x2) multispan cover with 1 removable support beam				6 part (2x3) multispan cover with 2 removable support beam				8 part (2x4) multispan cover with 3 removable support beam				10 part (2x5) multispan cover with 4 removable support beam															
	3 parts																												
		6 part (3x2) multispan cover with 1 removable support beam				9 part (3x3) multispan cover with 2 removable support beam				12 part (3x4) multispan cover with 3 removable support beam				15 part (3x5) multispan cover with 4 removable support beam															
	4 parts																												
		8 part (4x2) multispan cover with 1 removable support beam				12 part (4x3) multispan cover with 2 removable support beam				16 part (4x4) multispan cover with 3 removable support beam				20 part (4x5) multispan cover with 4 removable support beam															
Possible number of Assist Lift Covers	750	1 2 1 *				1 2 3 2 1 *				1 2 3 4 3 2 1 1				1 2 3 4 5 4 3 2 1 *															
900 Only		* 1 1 2				* 1 1 2 2 3				* 1 1 2 2 3 3 4				* 1 1 2 2 3 3 4 4 5															
Max		1 2 2 2				1 2 3 3 3 3				1 2 3 4 4 4 4 4				1 2 3 4 5 5 5 5 5 5															

Inset lines denote pit opening Cover Beam L = Pit clear opening length S = Pit clear opening span

Pit Clear Opening Lengths shown in Green cannot be achieved with a 900 Assist Lift Cover
Pit Clear Opening Lengths shown in Red cannot be achieved with a 750 Assist Lift Cover

Solid Top Assist Lift Multispan Covers & Frames

Beam Size

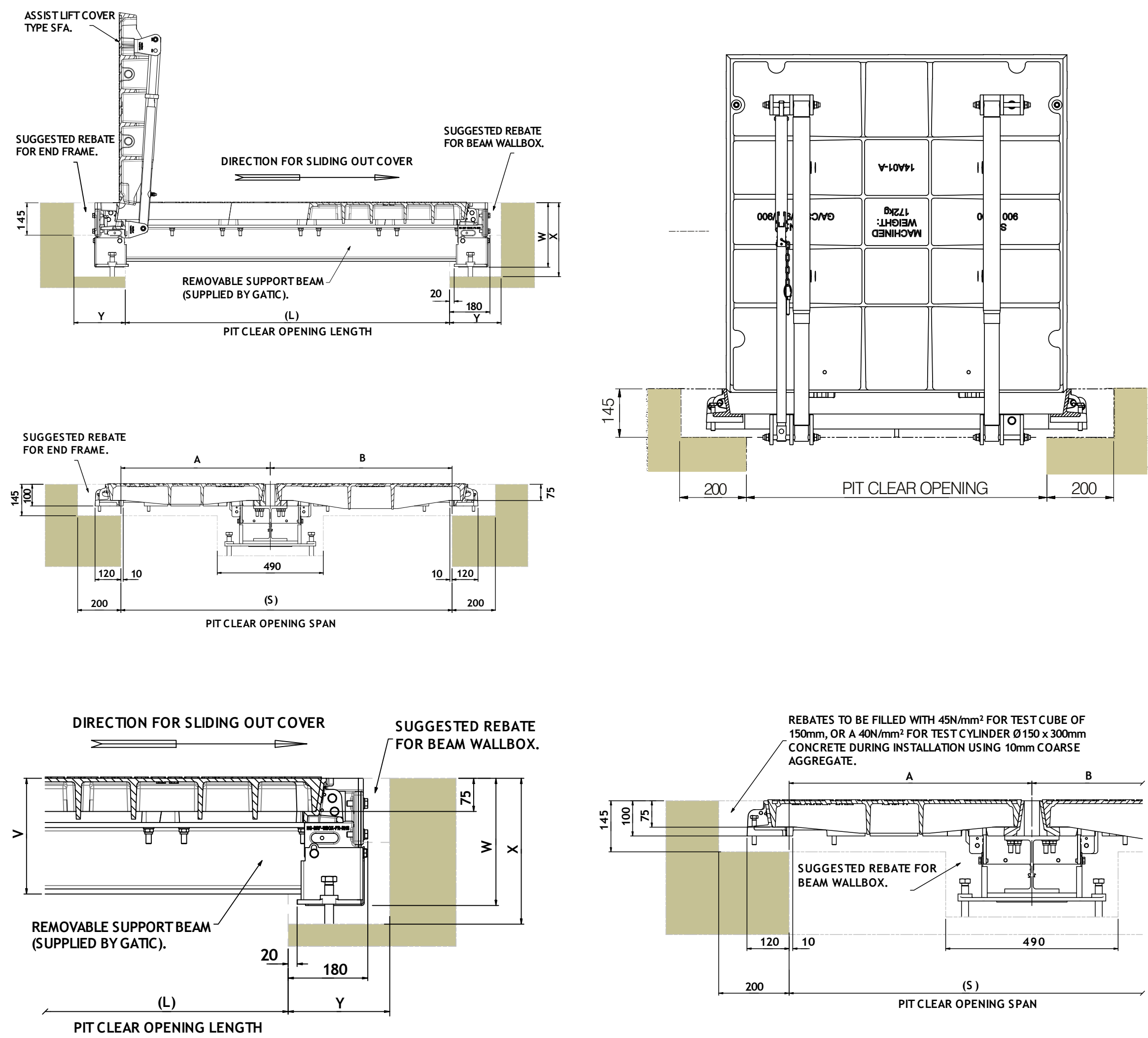
The required beam size for Multispan covers is dependent on the pit clear opening length and the loading group.

The table shows maximum beam length against beam size. The removable support beams are supplied by Gatic.

The table also indicates dimensions of the beam wallbox and rebate to suit different beam sizes. See also the accompanying section details.

Removable support beam size	Max pit clear opening length (L)	Beam wallbox dimensions			
		V	W	X	Y
356 x 171 x 67 kg/m U.B	1750	467	490	535	300
457 x 152 x 82 kg/m U.B	2600	565	595	635	300
533 x 210 x 122 kg/m U.B	3600	648	670	715	300
610 x 229 x 140 kg/m U.B	3900	720	745	790	300

Technical Diagrams



Materials

The components of Gatic LFA Assist lift covers are manufactured from the following materials: Ductile iron to BS EN 1563. M-Struts® and other parts in stainless steel grade 304.

Safe Lifting

Gatic LFA Assist lift covers have been designed to be lifted and closed by a single operator. The maximum lifting and closing force will be approximately 25kg.

M-Struts®

M-Struts® are designed for demanding environments and provide a maintenance free alternative to conventional gas struts. M-Struts® are made of grade 304 stainless steel. Unlike gas and pneumatic models, M-Struts® have no internal gases to leak or seals to fail in extreme conditions.

Loadings

Gatic LFA Assist lift covers will withstand the test load, deflection

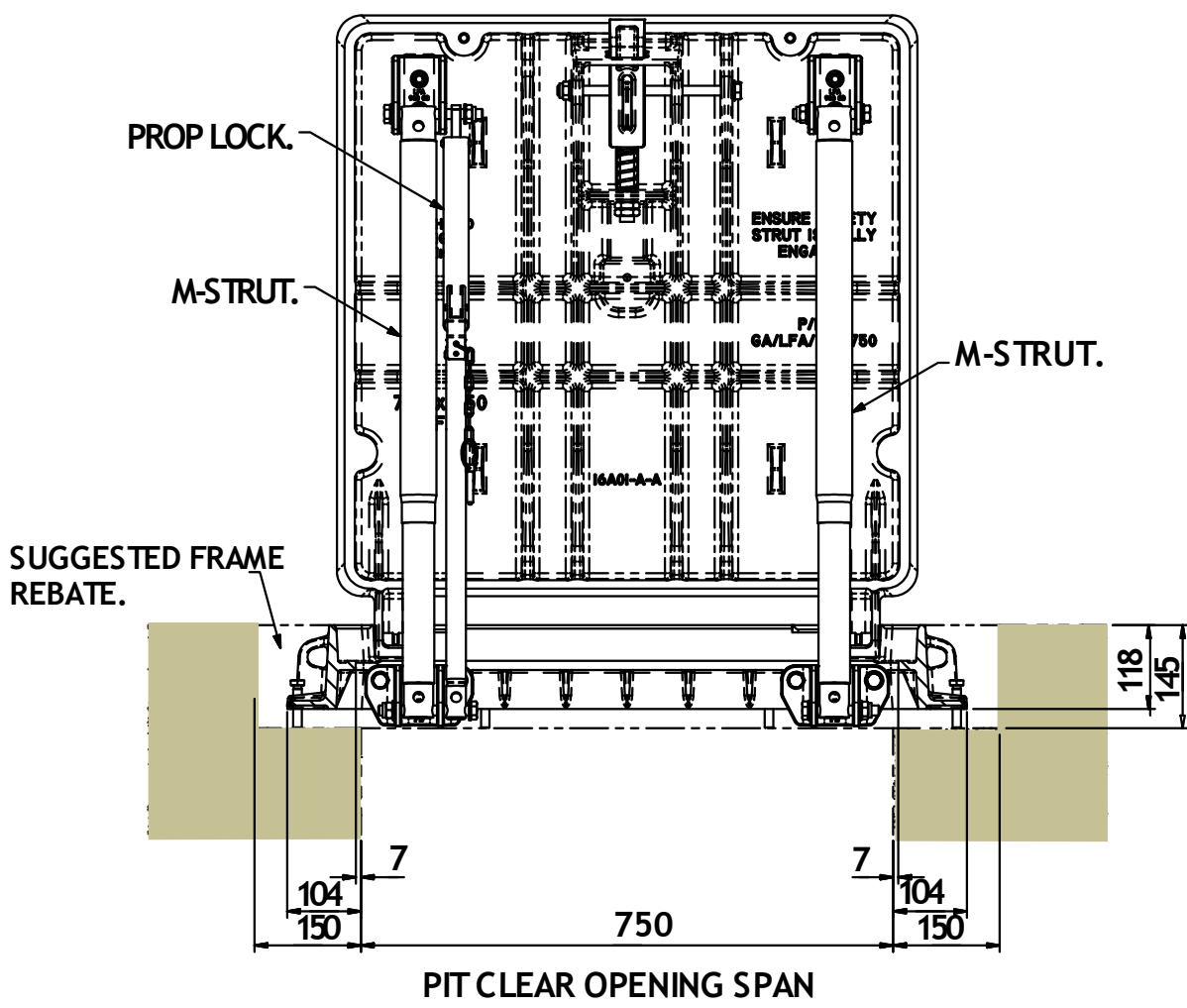
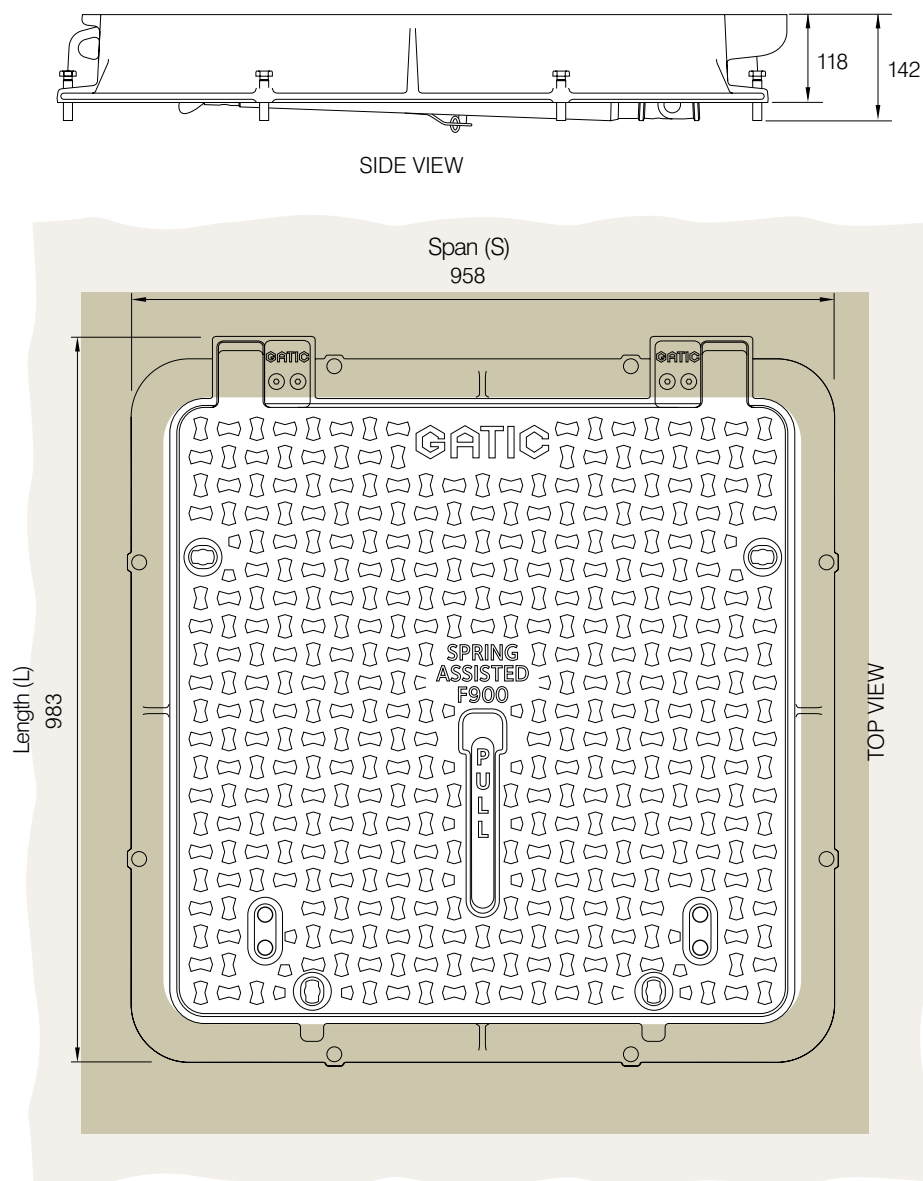
and maximum deformation criteria specified in BS EN 124 for load category F900. Gatic LFA Assist lift covers are suitable for installation in areas subject to slow moving traffic.

Features

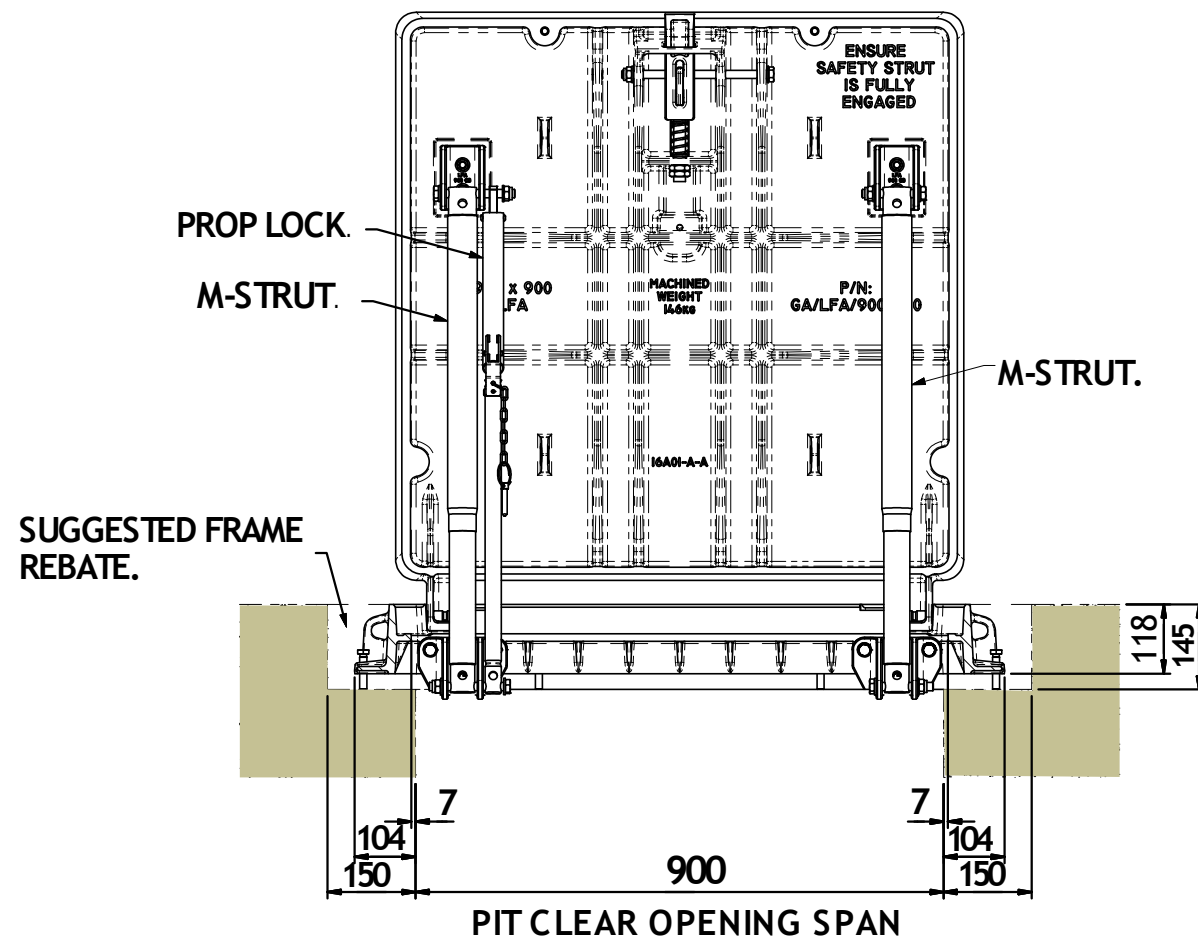
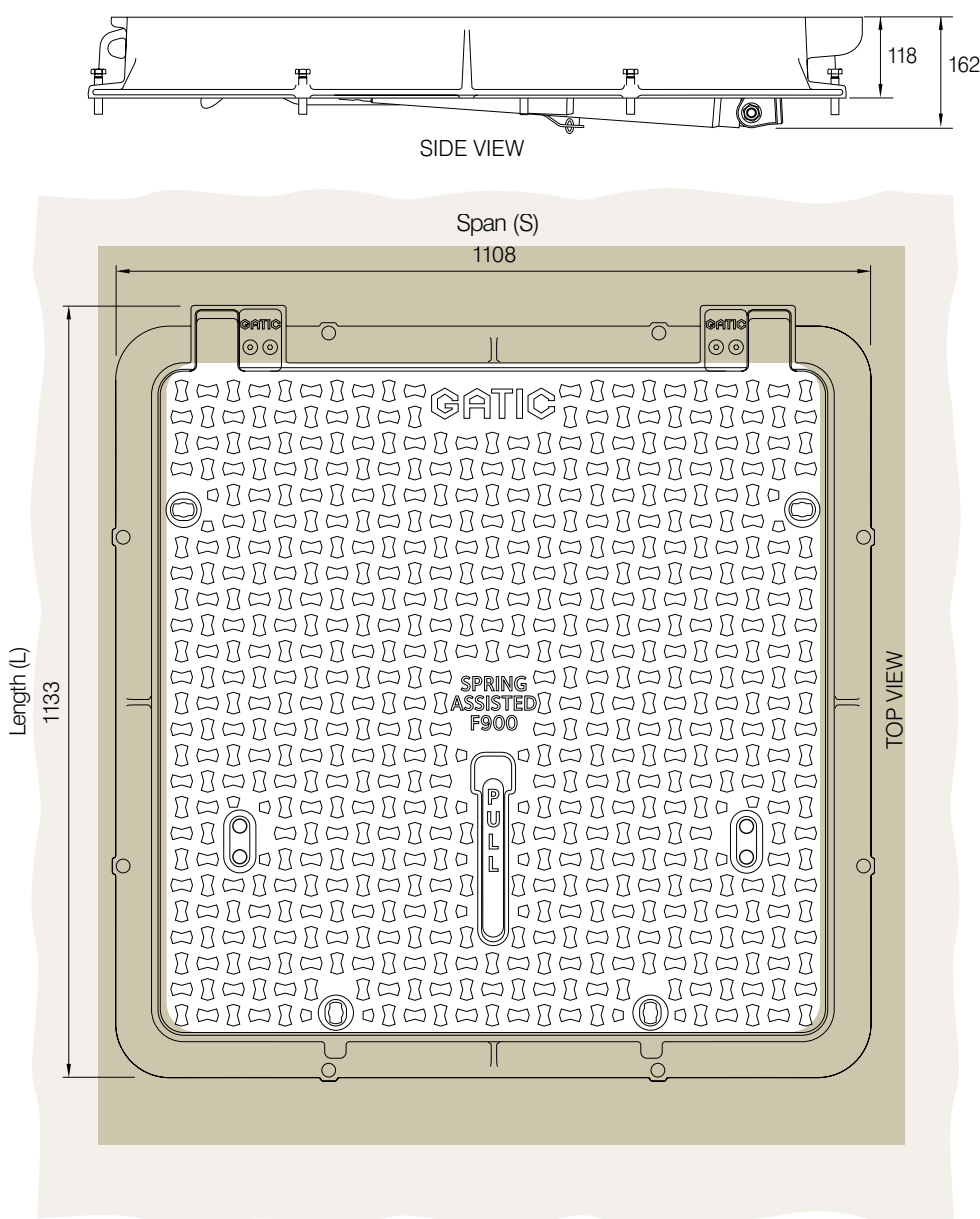
- Automatic engaging mechanism to prevent accidental closure.
- Slam latch.
- Locking feature - single Allen key required for opening.
- Integrated lifting handle.
- For sealed Assist lift options please see page 28 - 35



Pit clear opening (mm)	Overall	Frame depth	Overall depth	Total weight	Load rating
750 x 750	983 x 958	118	142	202kg	F900



Pit clear opening (mm)	Overall	Frame depth	Overall depth	Total weight	Load rating
900 x 900	1133 x 1108	118	162	252kg	F900



Solid Top Circular Covers

Suitable up to F900

Each Circular cover is supplied with two locking bolts as standard.

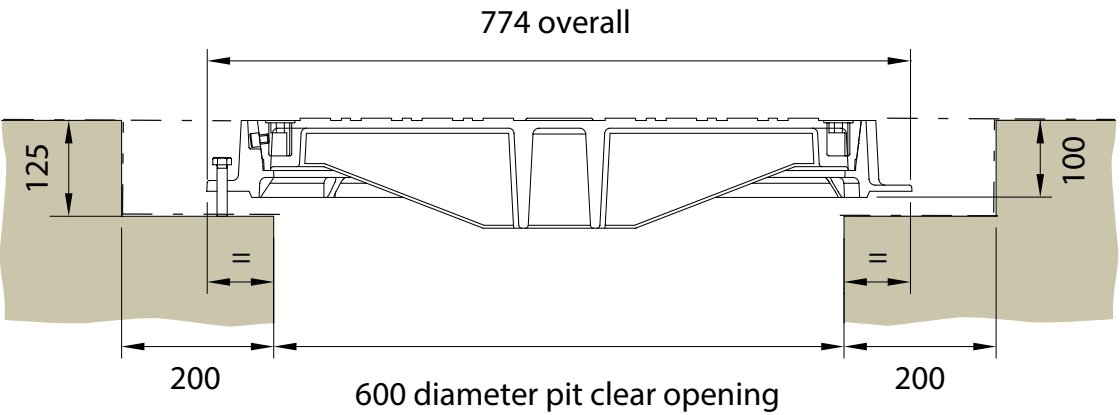
To specify, state

- 1. Loading group
- 2. Pit clear opening size
- 3. Cover type



Pit clear opening sizes	Cover type	Overall frame size	Suggested rebate size L x W x D
600mm dia.	GC	775 dia.	1000 dia.
750mm dia.	GC	925 dia.	1150 dia.
900mm dia.	GC	1075 dia.	1300 dia.

Technical Diagrams

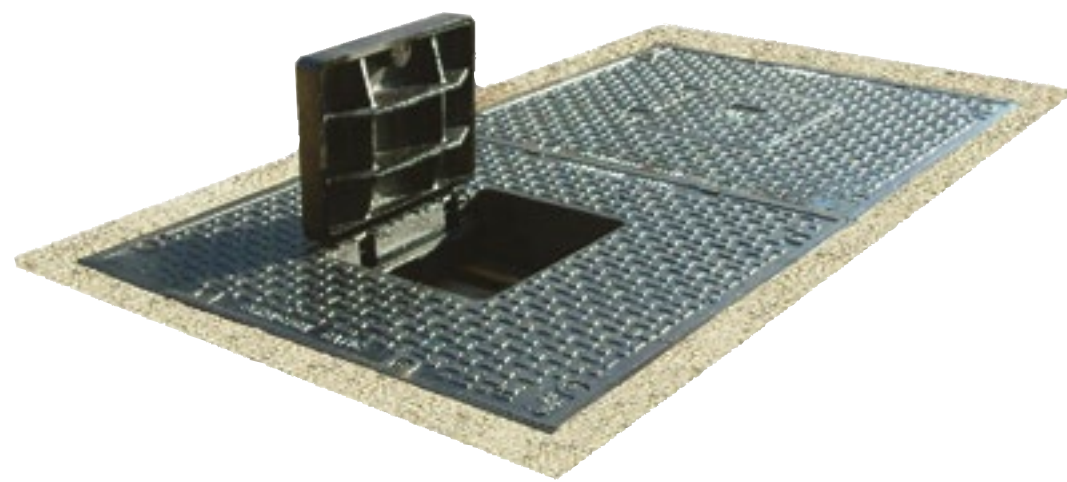


TYPE GC

Hinged Hydrant Covers

Hydrant lids can be supplied as single covers or set into a larger cover. This provides localised access without removing the larger cover.

Hydrants fitted within larger covers are 400 x 300 clear opening, centrally positioned. Can be incorporated into Multi-part Cover Systems.



Single and Double Covers Fitted with 400 x 300 Hinged Hydrant

Pit clear opening sizes	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
750 x 750	RSF/H	850 x 940 x 100	1100 x 1100 x 125
900 x 900	RSF/H	1120 x 1140 x 100	1300 x 1300 x 125
1600 x 750	RSF/H	1650 x 940 x 100	1800 x 1100 x 125
1900 x 900	RSF/H	2120 x 1140 x 100	2300 x 1300 x 125

Single and double units - including a 400 x 300 hinged hydrant cover centrally positioned in each cover.

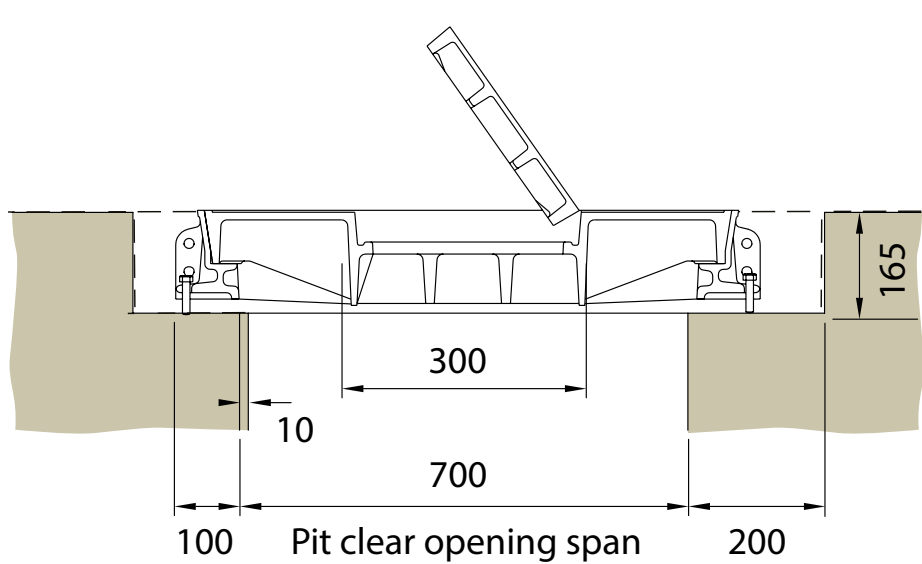
If only one cover is required as a hydrant, please contact our technical department.

Hydrant Covers

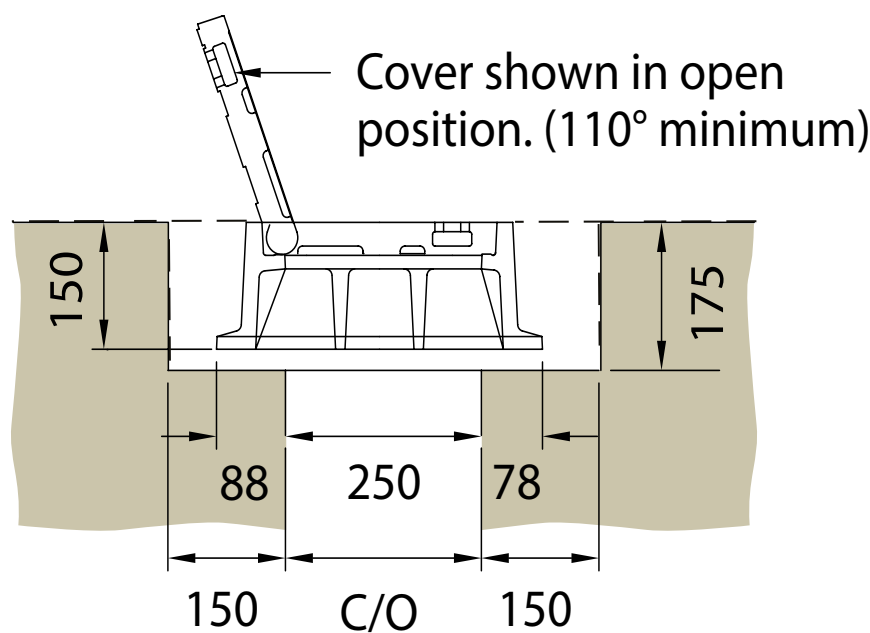
Pit clear opening sizes	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
225 x 225	FH	391 x 391 x 150	525 x 525 x 175
500 x 250	FH	666 x 416 x 150	800 x 550 x 175

Technical Diagrams

Double hydrant covers



TYPE RSF/H



TYPE FH



E600

Areas of high wheel loads, some aircraft hard-standings, dockyards and other areas where heavy duty plant and vehicles may be used

Loading Group E600 Introduction

Areas of high wheel loads, some aircraft hard-standings, dockyards and other areas where heavy duty plant and vehicles may be used

20 tonne wheel load, test load 600kN - Suitable for:

- Some airfield pavements dockyards
- Dockyards
- Other areas where single slow moving wheel loads up to 20 tonne may be encountered

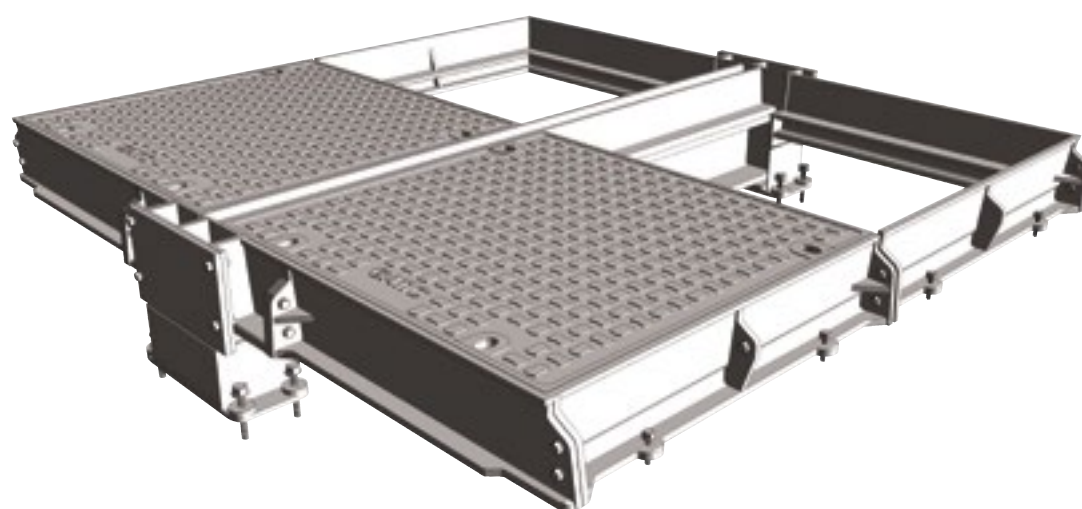
E600 assemblies are available with a choice of cover designs - recessed or solid top.



Solid top

Solid top cover types are lighter in weight than recessed covers, and feature an anti-slip surface.

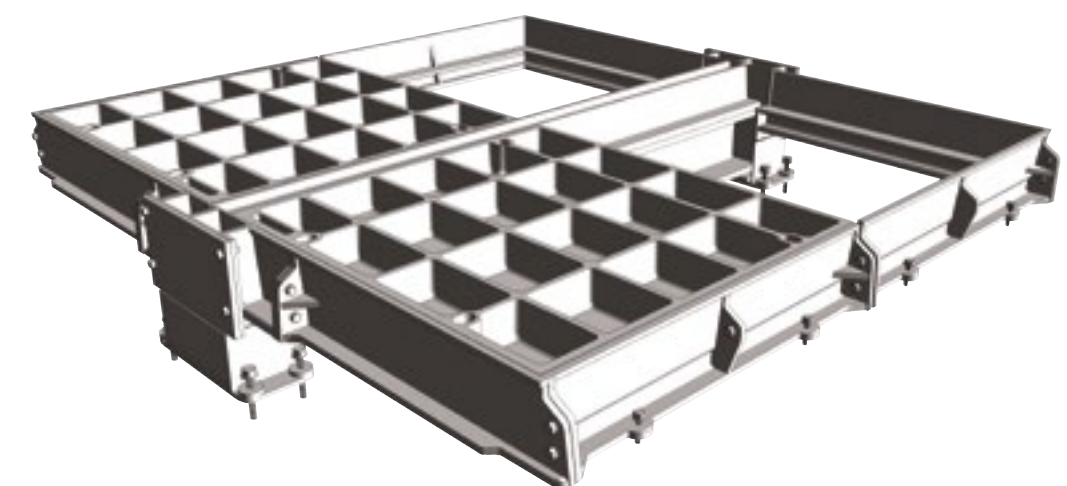
Solid top covers are denoted by the code Type RSF depicted in section on the following pages.



Recessed for concrete infill

Recessed covers are available in a choice of designs designated by a 'Type' reference. E600 recessed covers are available as Type DLF, DM, DM/F, RRF. Section drawings of the different recessed cover types are shown on the following pages.

To prevent movement of covers in high traffic conditions, we recommend the use of a factory fitted vibration-resistant locking system. Can be fitted to recessed covers only. See page 14.



Product Ranges

Single covers and frames



Duct covers and frames



Continuous trench covers and frames



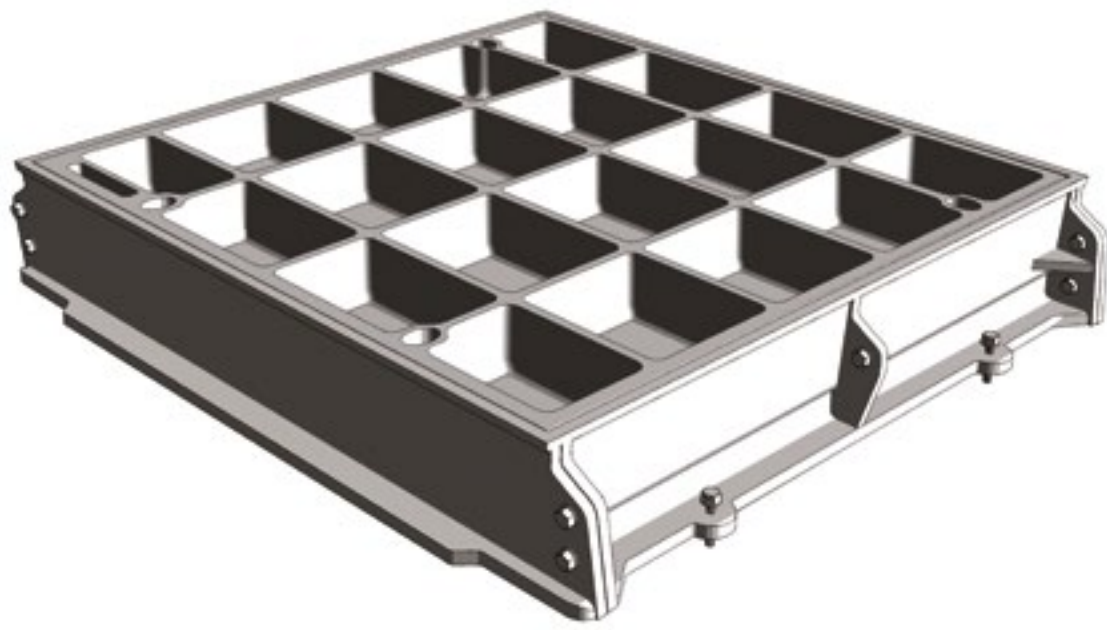
Multispan covers and frames



To prevent movement of covers in high traffic conditions, we recommend the use of a factory fitted vibration-resistant locking system. These can be fitted to recessed covers only.

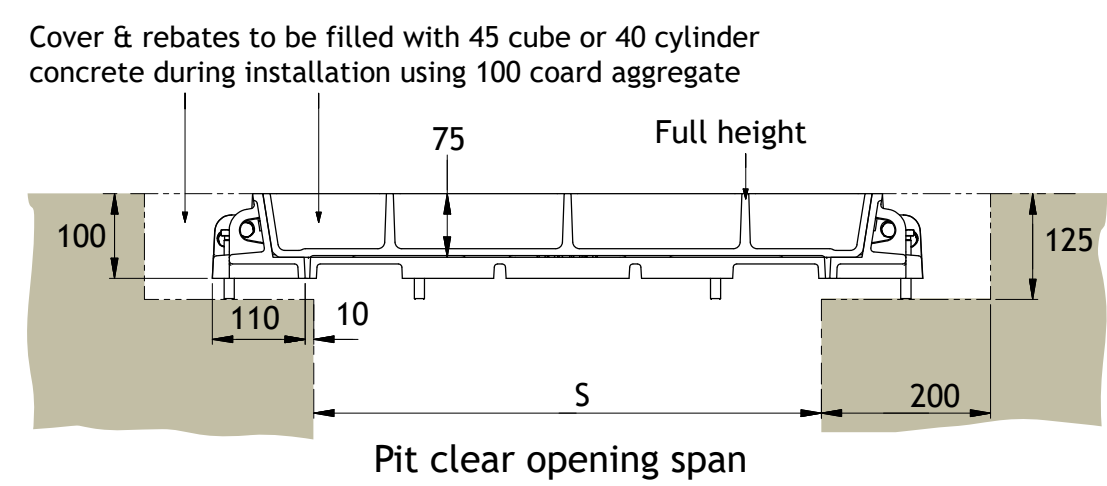
If you are uncertain as to the adequacy of covers conforming to a particular loading, we recommend specifying covers in a higher loading group. For example, if in doubt about covers in Loading Group E600, we recommend you specify covers in Loading Group F900.

Single Recessed Covers and Frames

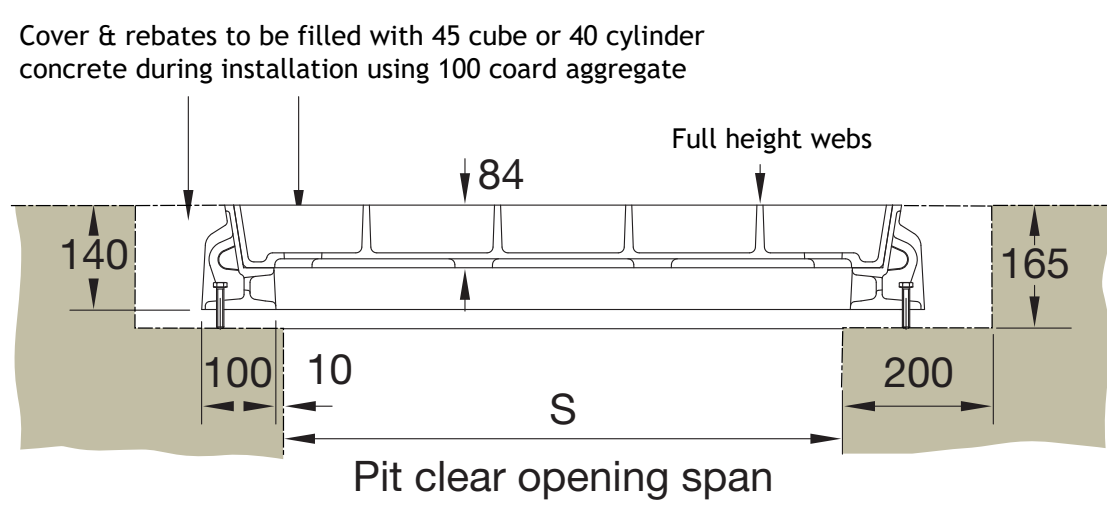


Pit clear opening sizes L x S	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
750 x 300	DLF	900 x 540 x 75	1050 x 600 x 100
600 x 450	RRF	750 x 690 x 100	1000 x 850 x 125
750 x 450	RRF	900 x 690 x 100	1150 x 850 x 125
600 x 600	RRF	750 x 840 x 100	1000 x 1000 x 125
750 x 600	RRF	900 x 840 x 100	1150 x 1000 x 125
900 x 600	RRF	1050 x 840 x 100	1300 x 1000 x 125
600 x 750	RRF	750 x 990 x 100	1000 x 1150 x 125
750 x 750	RRF	900 x 990 x 100	1150 x 1150 x 125
900 x 750	RRF	1050 x 990 x 100	1300 x 1150 x 125
600 x 900	RRF	750 x 1140 x 100	1000 x 1300 x 125
750 x 900	RRF	900 x 1140 x 100	1150 x 1300 x 125
900 x 900	RRF	1120 x 1140 x 100	1300 x 1300 x 125
600 x 1050	RRF	750 x 1290 x 100	1000 x 1450 x 125
600 x 1050	DM	750 x 1290 x 140	1000 x 1450 x 165
750 x 1050	DM	970 x 1270 x 140	1150 x 1450 x 165
1000 x 1050	DM	1220 x 1270 x 140	1400 x 1450 x 165
600 x 1200	RRF	750 x 1440 x 100	1000 x 1600 x 125
750 x 1200	RRF	900 x 1440 x 100	1150 x 1600 x 125
600 x 1500	DM/F	820 x 1720 x 140	1000 x 1900 x 165
750 x 1500	DM/F	970 x 1720 x 140	1150 x 1900 x 165

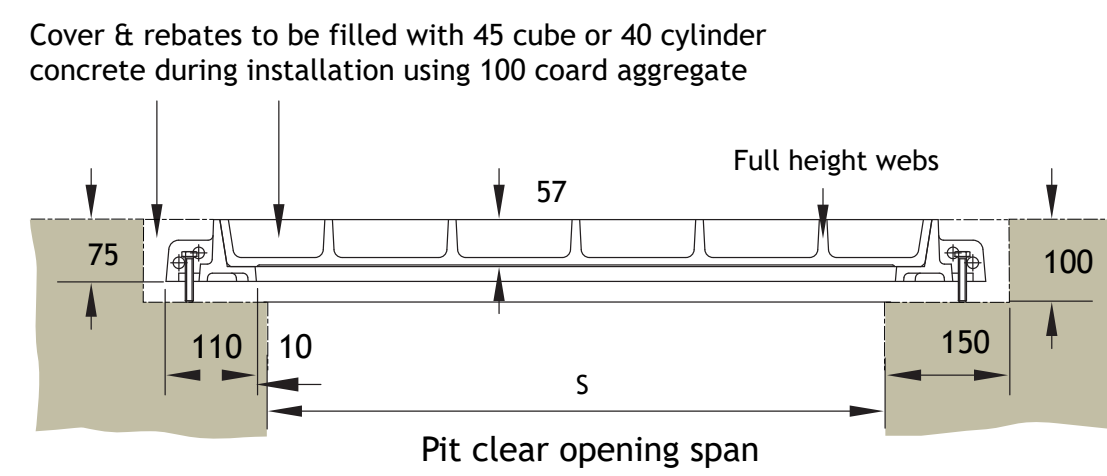
Technical Diagrams



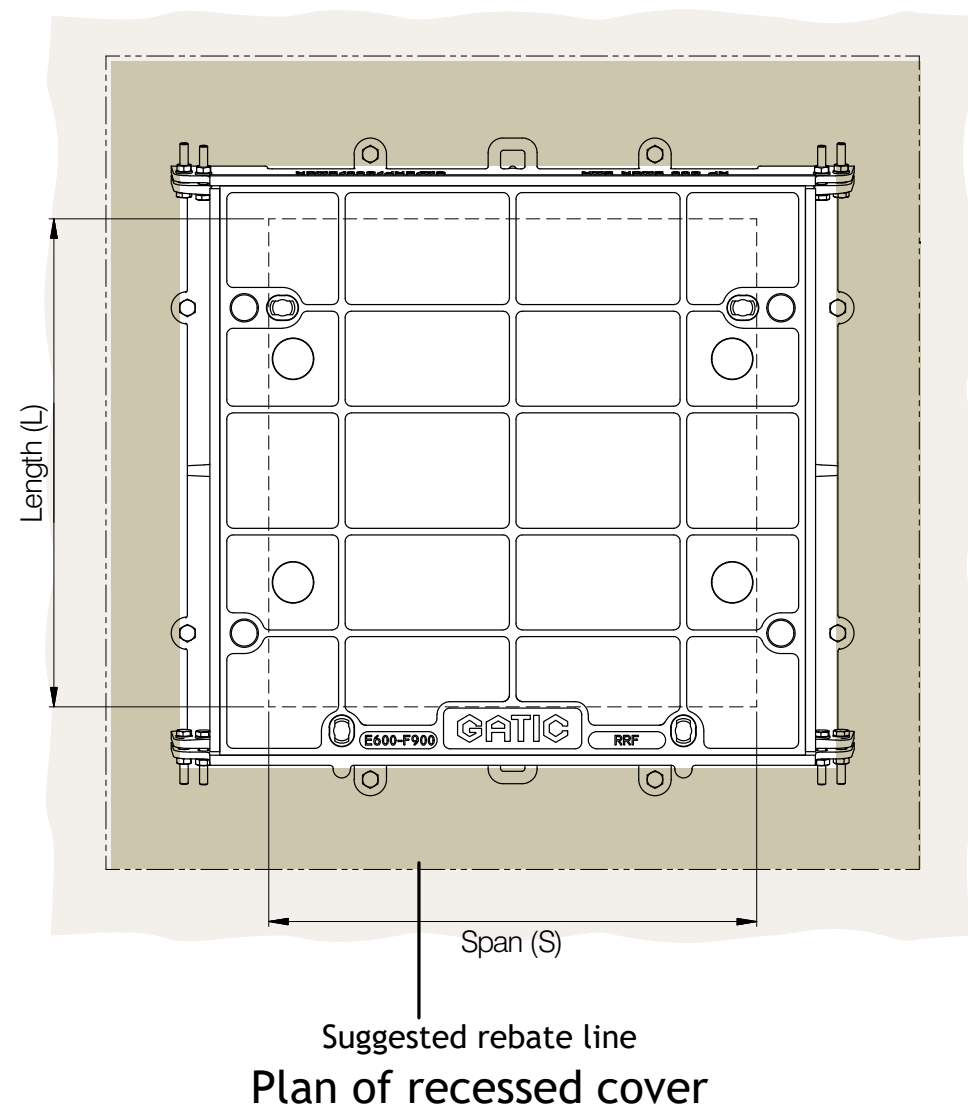
Type RRF



Type DM / DM/F



Type DLF



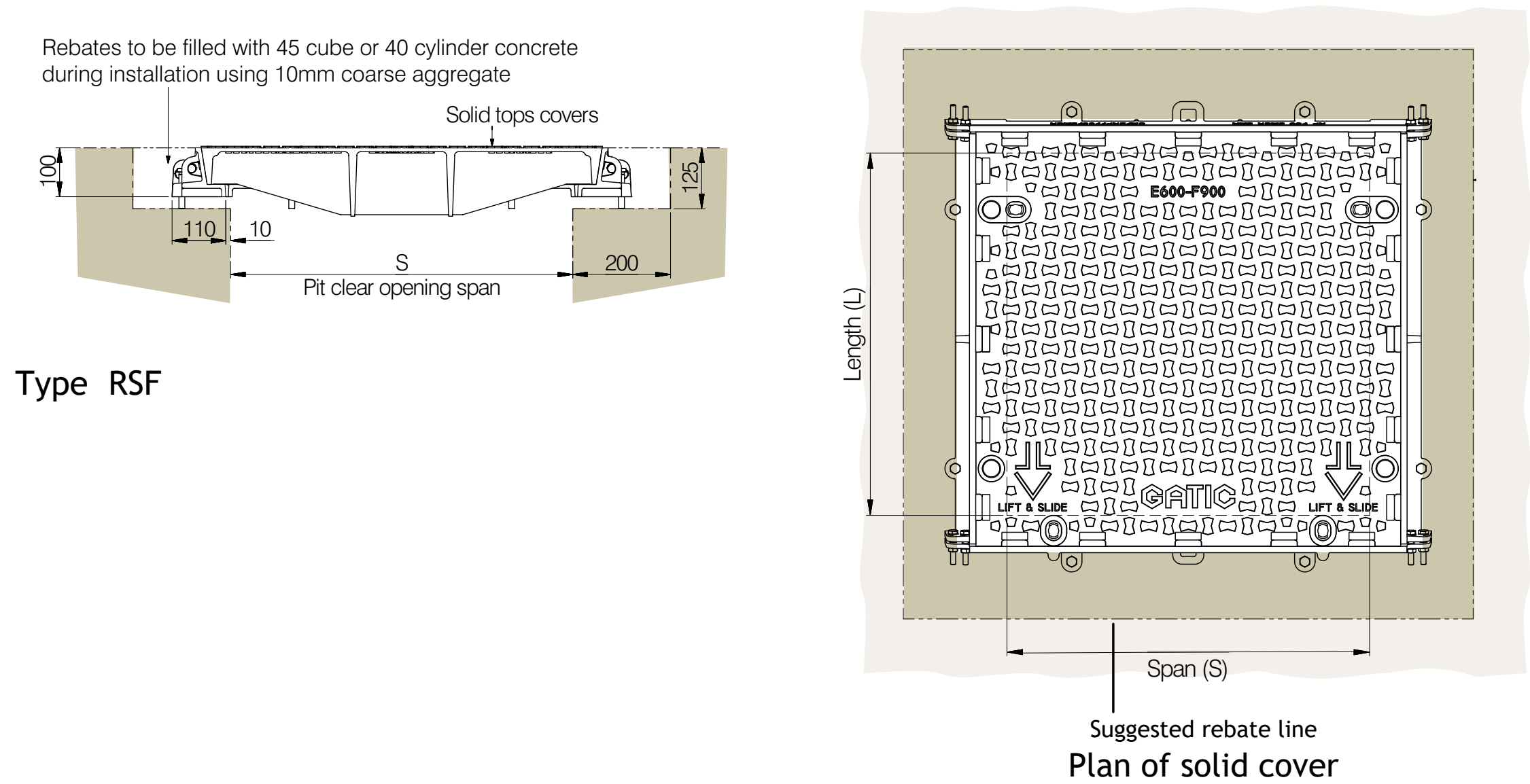
Single Solid Top Covers and Frames



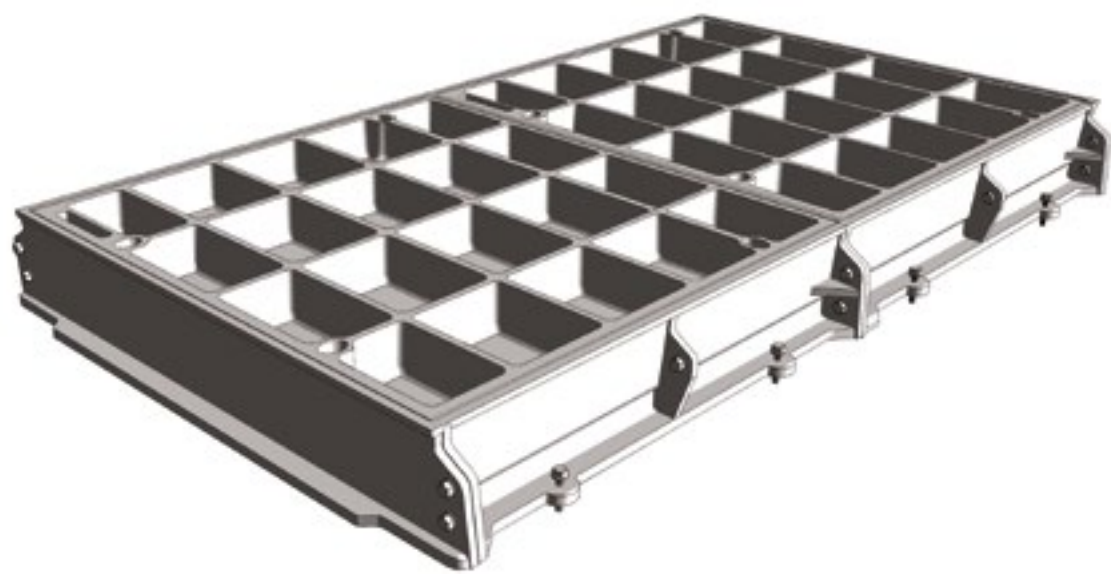
Pit clear opening sizes L x S	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
600 x 600	RSF	750 x 840 x 100	1000 x 1000 x 125
750 x 600	RSF	900 x 840 x 100	1150 x 1000 x 125
900 x 600	RSF	1050 x 840 x 100	1300 x 1000 x 125
700 x 700	RSF	850 x 940 x 100	1100 x 1100 x 125
600 x 750	RSF	750 x 990 x 100	1000 x 1150 x 125
750 x 750	RSF	900 x 990 x 100	1150 x 1150 x 125
900 x 750	RSF	1050 x 990 x 100	1300 x 1150 x 125
600 x 900	RSF	750 x 1140 x 100	1000 x 1300 x 125
750 x 900	RSF	900 x 1140 x 100	1150 x 1300 x 125
900 x 900	RSF	1120 x 1140 x 100	1300 x 1300 x 125
1000 x 1000	RSF	1220 x 1240 x 100	1400 x 1400 x 125

Rebates to filled with 45 cube or 40 cylinder concrete during installation using 10mm coarse aggregate

Technical Diagrams



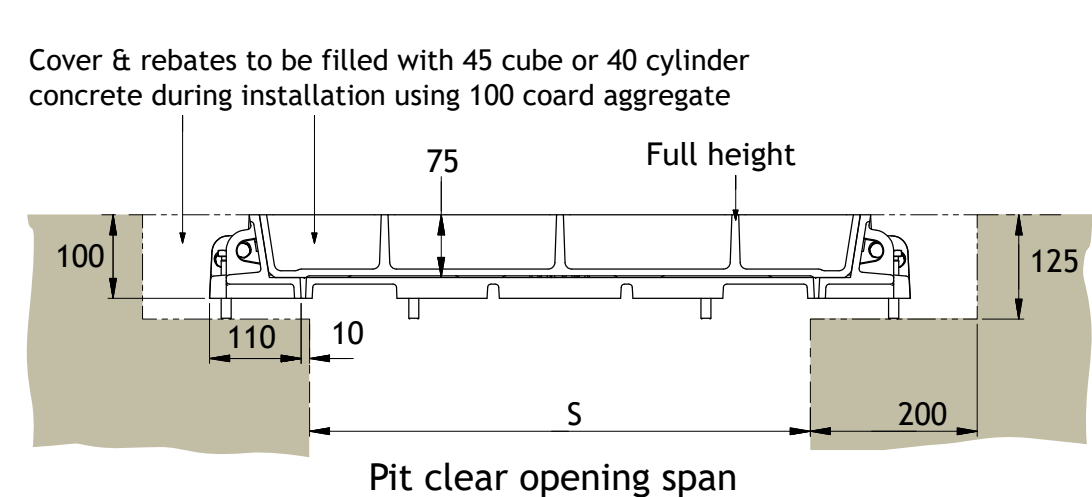
Duct Recessed Covers and Frames



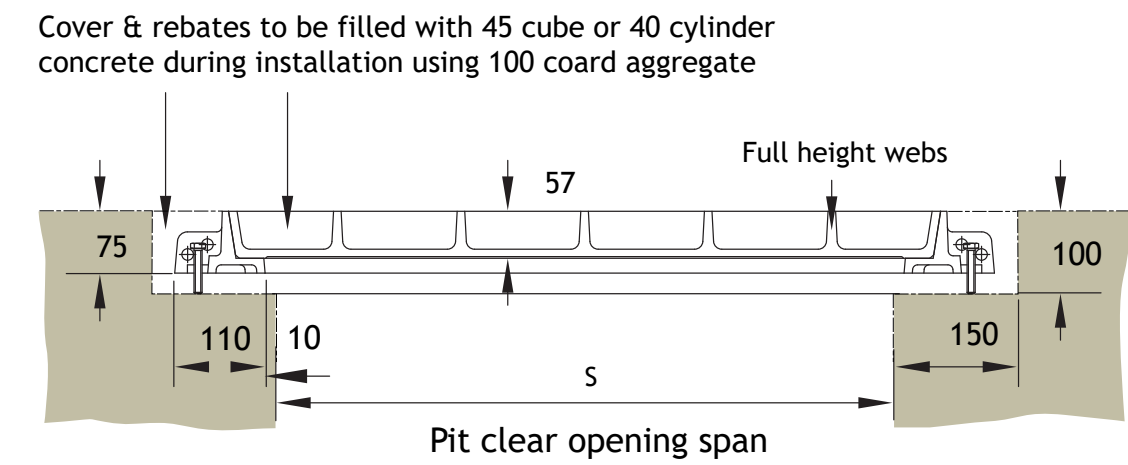
Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			1300	1450	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
300	DLF	(L + 300) x 600 x 100	*	*	2	*	*	*	*	*	3	*	*	*
450	RRF	(L + 400) x 850 x 125	2	2	2	*	*	3	3	3	3	*	4	*
600	RRF	(L + 400) x 1000 x 125	2	2	2	2	2	3	3	3	3	3	4	3
750	RRF	(L + 400) x 1150 x 125	2	2	2	2	2	3	3	3	3	3	4	3
900	RRF	(L + 400) x 1300 x 125	2	2	2	2	2	3	3	3	3	3	4	3
1050	RRF	(L + 400) x 1450 x 125	2	*	*	*	*	3	*	*	*	*	4	*
1050	DM	(L + 400) x 1450 x 165	2	2	2	*	*	3	3	3	3	*	4	*
1200	RRF	(L + 400) x 1600 x 125	2	2	2	*	*	3	3	3	3	*	4	*
1500	DM/F	(L + 400) x 1900 x 165	2	2	2	*	*	3	3	3	3	*	4	*

Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			2850	2900	3000	3150	3300	3400	3550	3700	3850	3900	4000	4150
300	DLF	(L + 300) x 600 x 100	*	*	*	*	4	*	*	*	*	*	*	5
450	RRF	(L + 400) x 850 x 125	4	*	4	4	4	5	5	5	5	*	5	5
600	RRF	(L + 400) x 1000 x 125	4	3	4	4	4	5	5	5	5	4	5	5
750	RRF	(L + 400) x 1150 x 125	4	3	4	4	4	5	5	5	5	4	5	5
900	RRF	(L + 400) x 1300 x 125	4	3	4	4	4	5	5	5	5	4	5	5
1050	RRF	(L + 400) x 1450 x 125	*	*	*	*	*	5	*	*	*	*	*	*
1050	DM	(L + 400) x 1450 x 165	4	*	4	4	4	5	5	5	5	*	5	5
1200	RRF	(L + 400) x 1600 x 125	4	*	4	4	4	5	5	5	5	*	5	5
1500	DM/F	(L + 400) x 1900 x 165	4	*	4	4	4	5	5	5	5	*	5	5

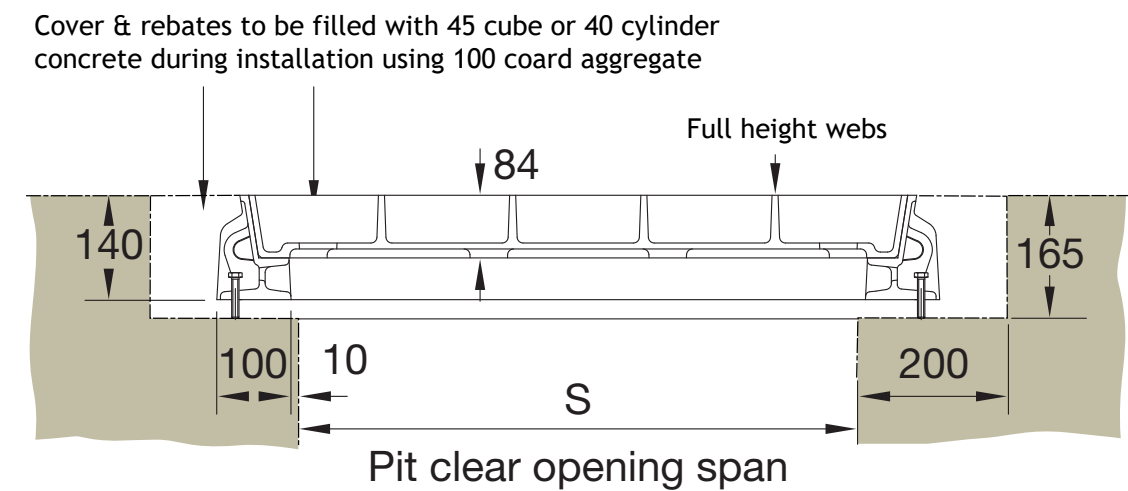
Technical Diagrams



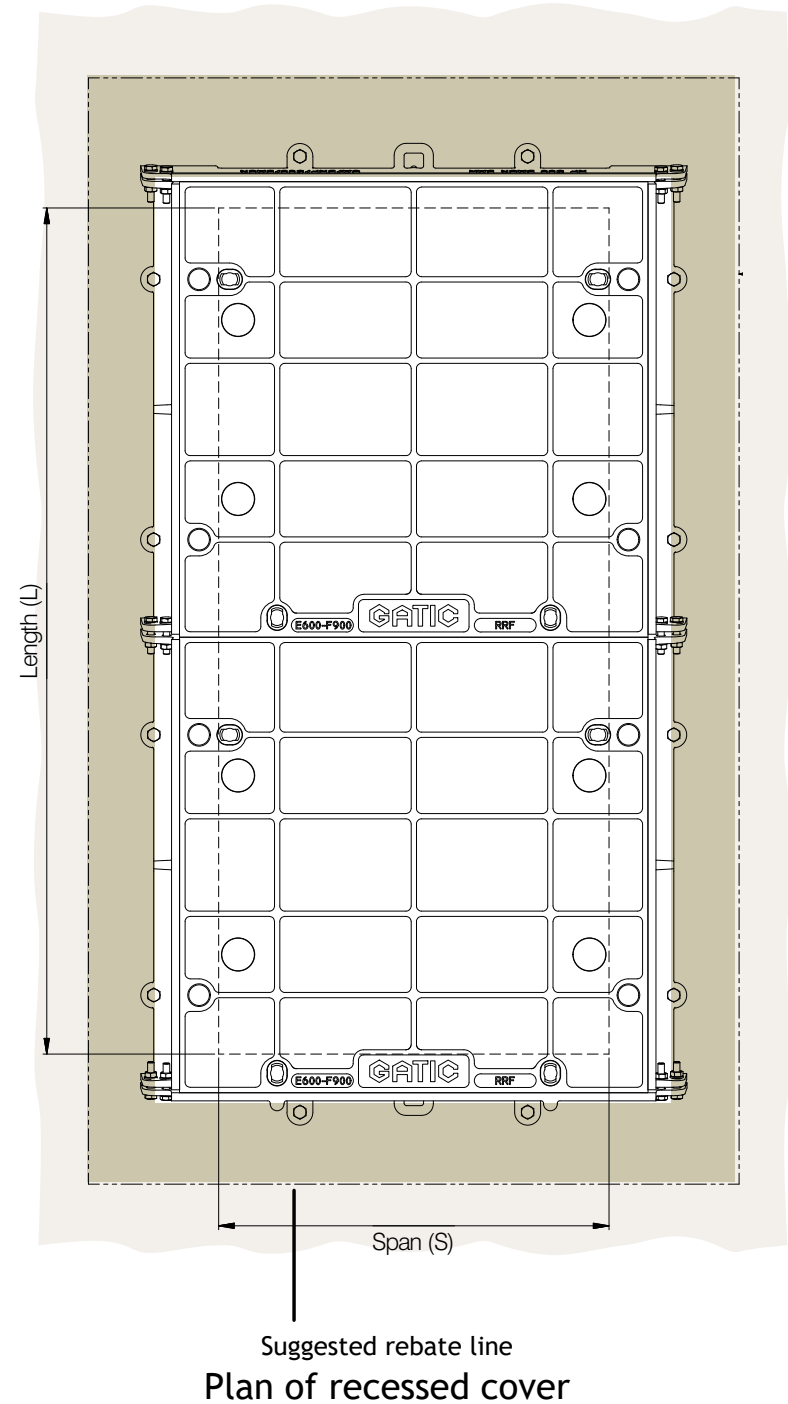
Type RRF



Type DLF



Type DM / DM/F



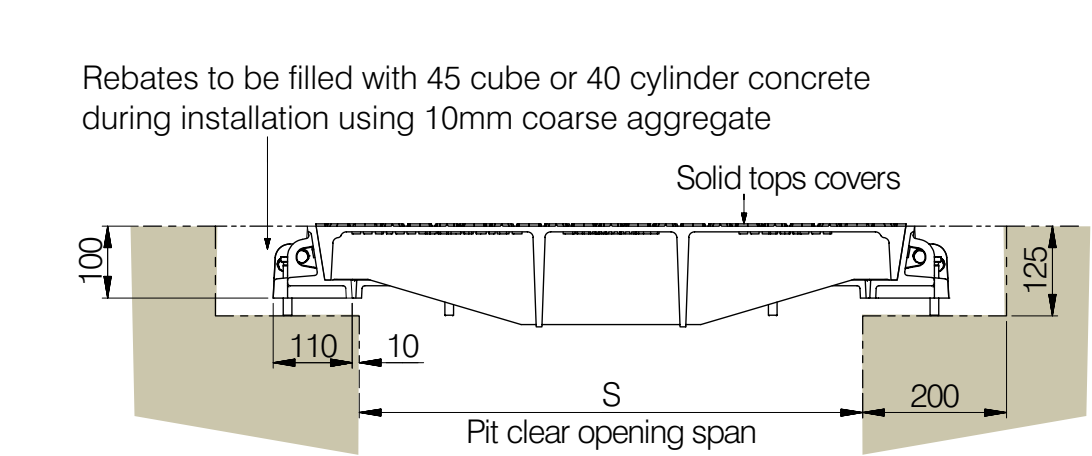
Duct Solid Top Covers and Frames



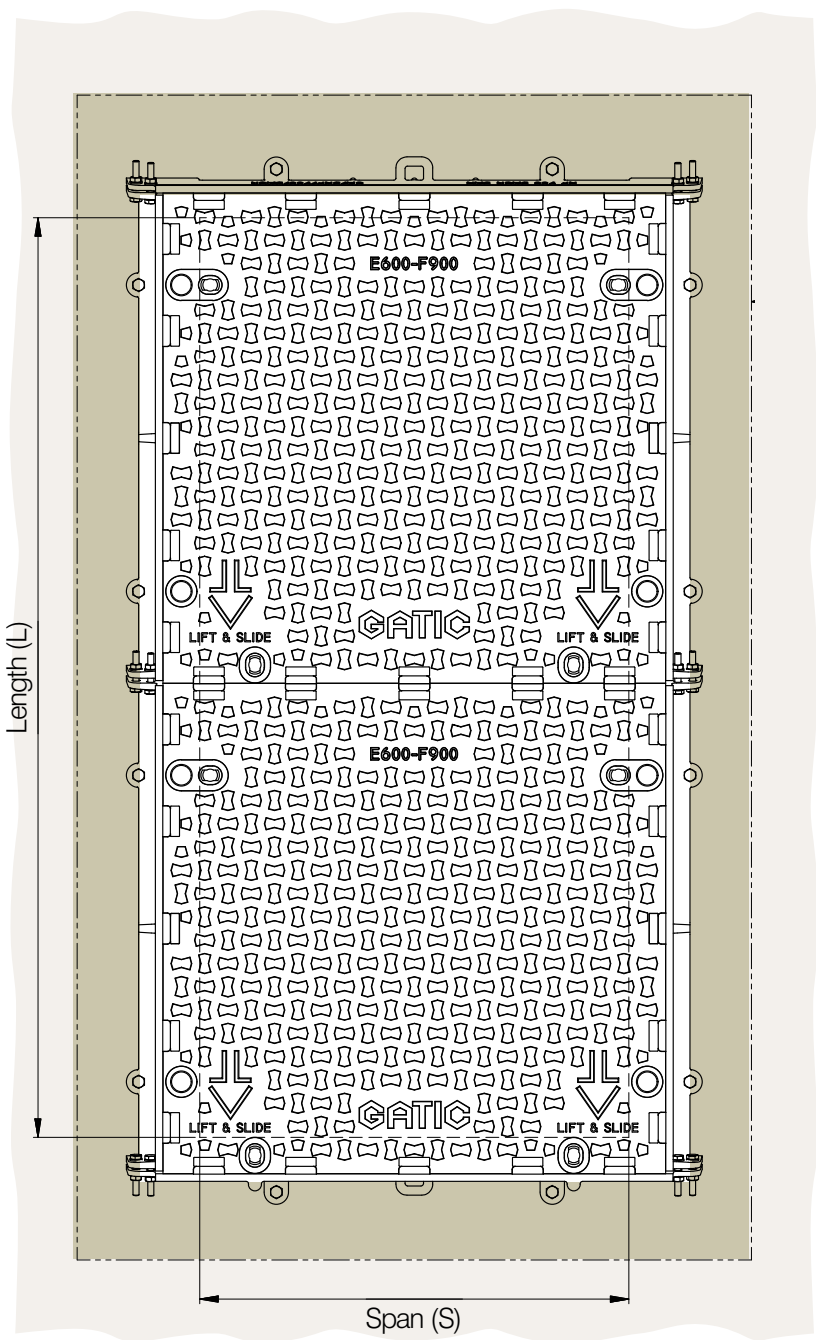
Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)												
			1300	1450	1500	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
600	RSF	(L + 400) x 1000 x 125	2	2	*	2	2	2	3	3	3	3	3	4	3
700	RSF	(L + 400) x 1100 x 125	*	*	2	*	*	*	*	*	3	*	*	*	*
750	RSF	(L + 400) x 1150 x 125	2	2	*	2	2	2	3	3	3	3	3	4	3
900	RSF	(L + 400) x 1300 x 125	2	2	*	2	2	2	3	3	3	3	3	4	3

Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)												
			2850	2900	3000	3100	3150	3300	3400	3550	3700	3850	3900	4000	4150
600	RSF	(L + 400) x 1000 x 125	4	3	4	*	4	4	5	5	5	5	4	5	5
700	RSF	(L + 400) x 1100 x 125	*	*	*	4	*	*	*	*	*	*	5	*	*
750	RSF	(L + 400) x 1150 x 125	4	3	4	*	4	4	5	5	5	5	4	5	5
900	RSF	(L + 400) x 1300 x 125	4	3	4	*	4	4	5	5	5	5	4	5	5

Technical Diagrams

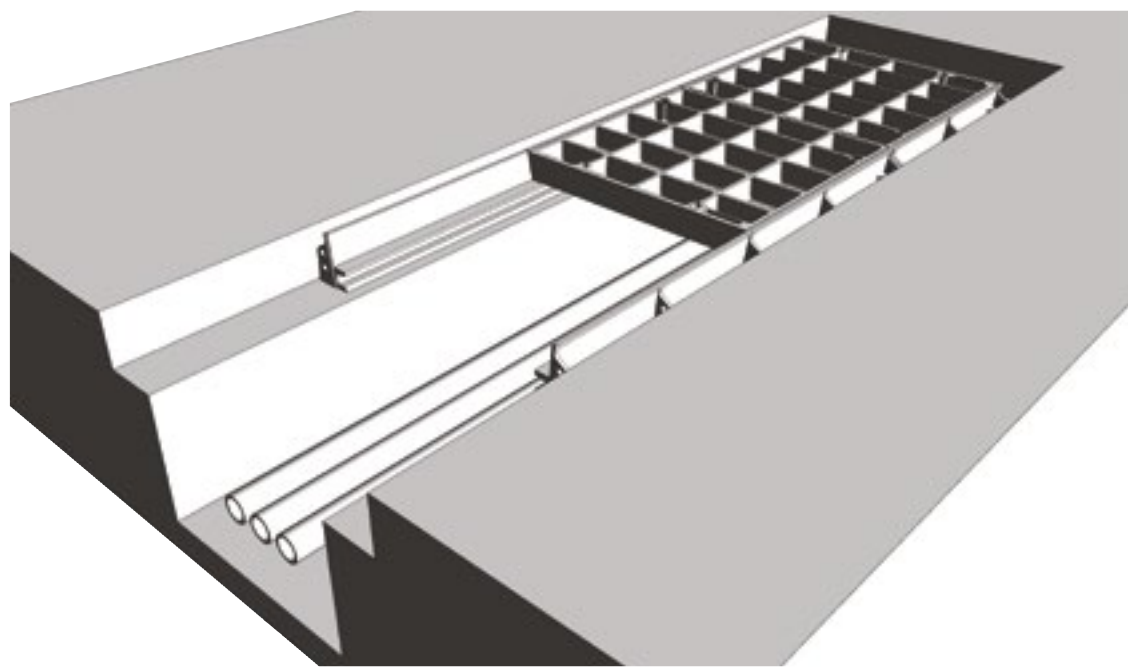


Type RSF



Suggested rebate line
Plan of solid cover

Continuous Recessed Covers and Frames



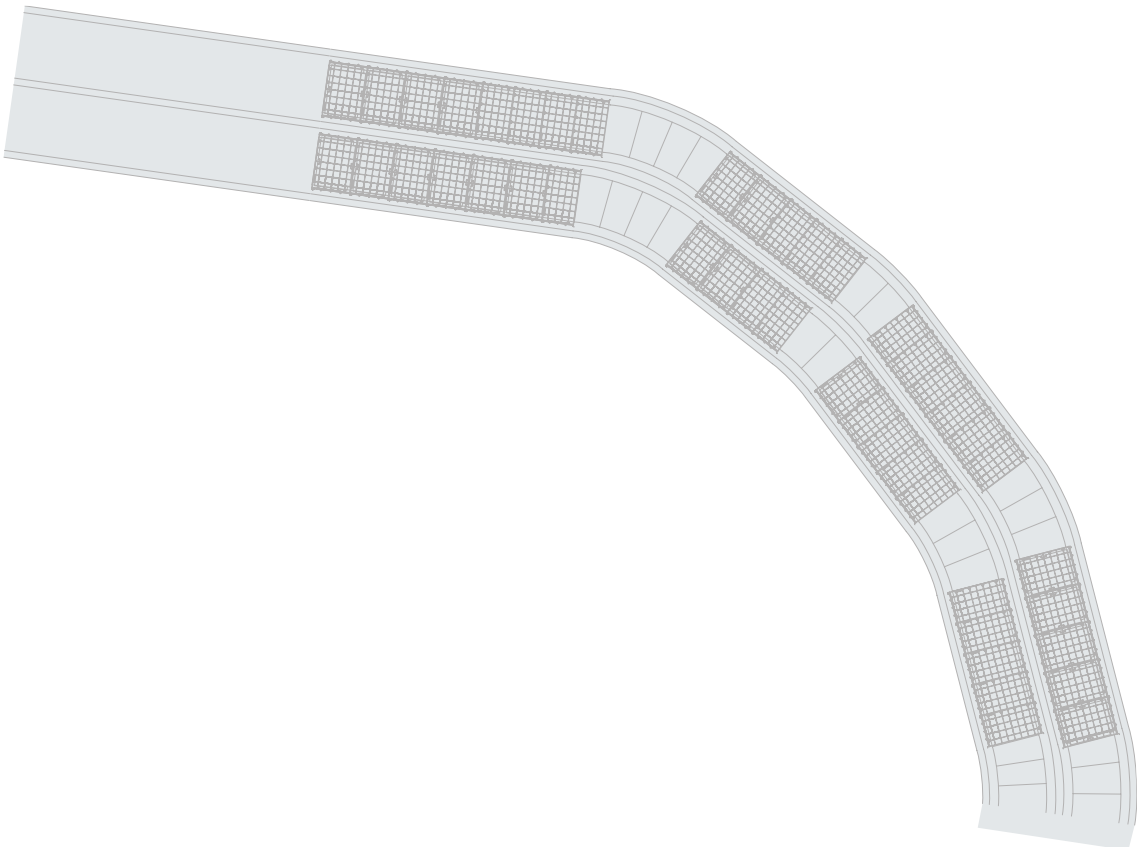
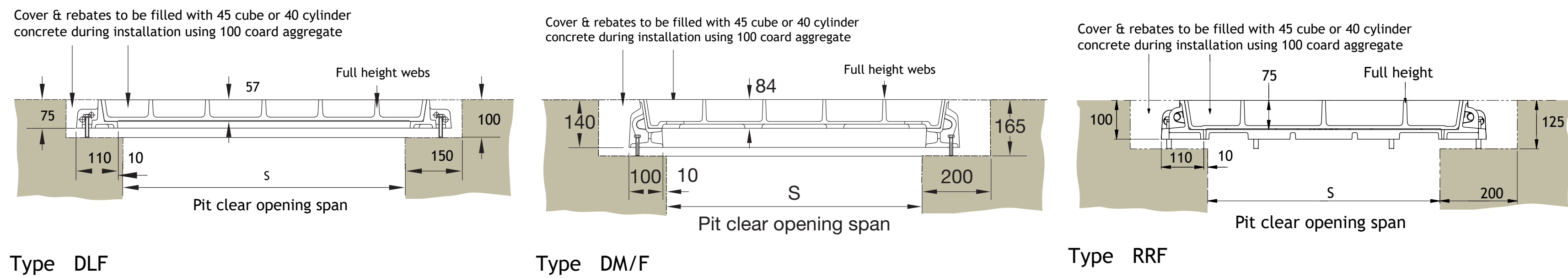
Pit clear opening span	Cover type
300	DLF
450	RRF
600	RRF
750	RRF
900	RRF
1050	RRF
1200	RRF
1500	DM/F

Gatic covers can be formed to make continuous trenches or layouts providing total access to services below.

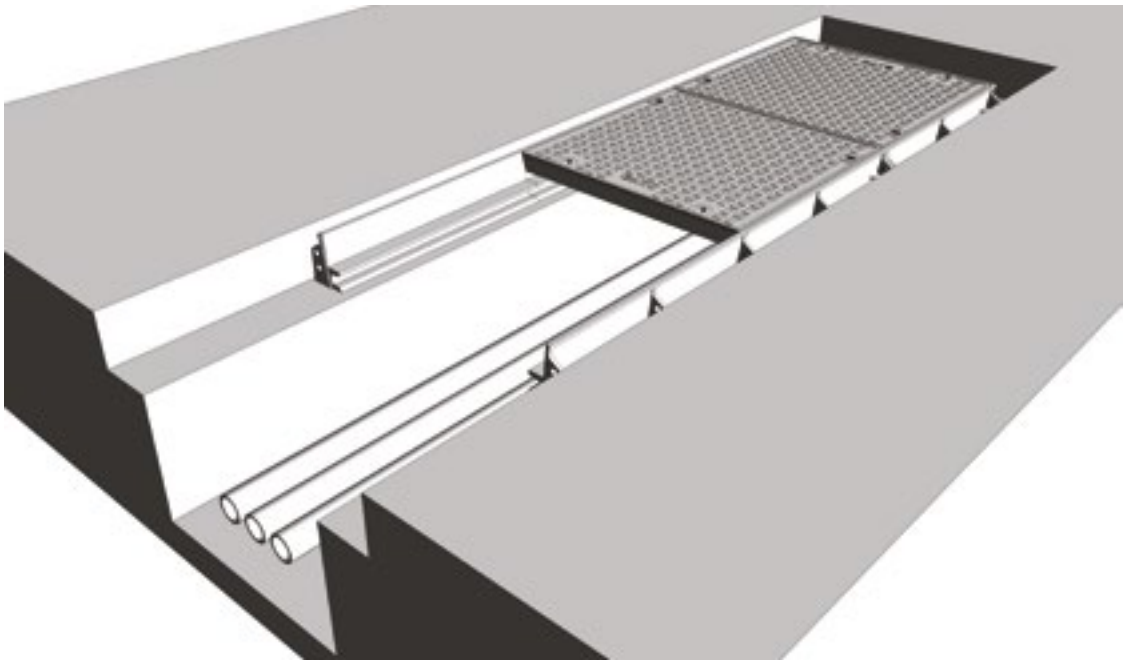
Construction drawings are required so that Gatic cover layout drawings can be prepared.

For type DM/F refer to our technical department

Technical Diagram



Continuous Solid Top Covers and Frames



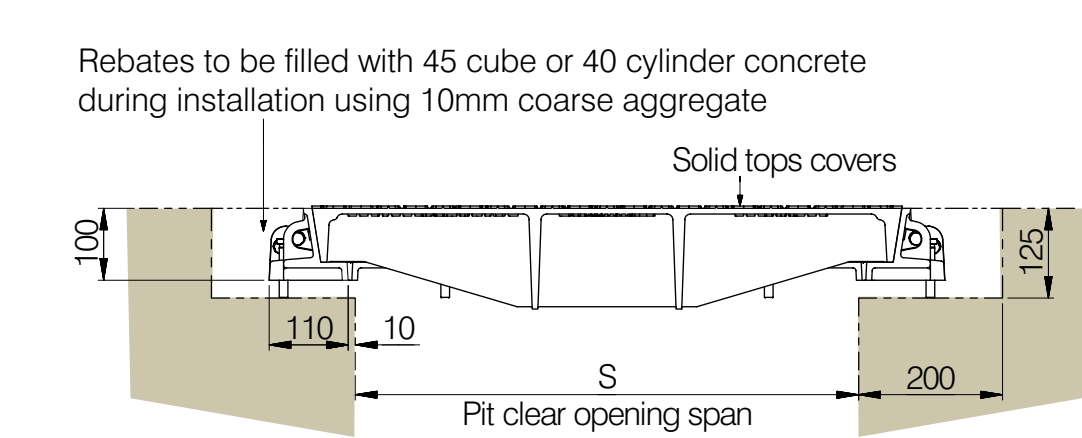
Pit clear opening span	Cover type
600	RSF
700	RSF
750	RSF
900	RSF
1050	RRF
1200	RRF

Standard Solid top covers are supplied in straight runs. Junctions and splays can be achieved by the inclusion of localised recessed covers. Refer to our technical department for more information.

For high density traffic conditions refer to page 14.

Rebates to filled with 45 cube or 40 cylinder concrete during installation using 10mm coarse aggregate

Technical Diagrams

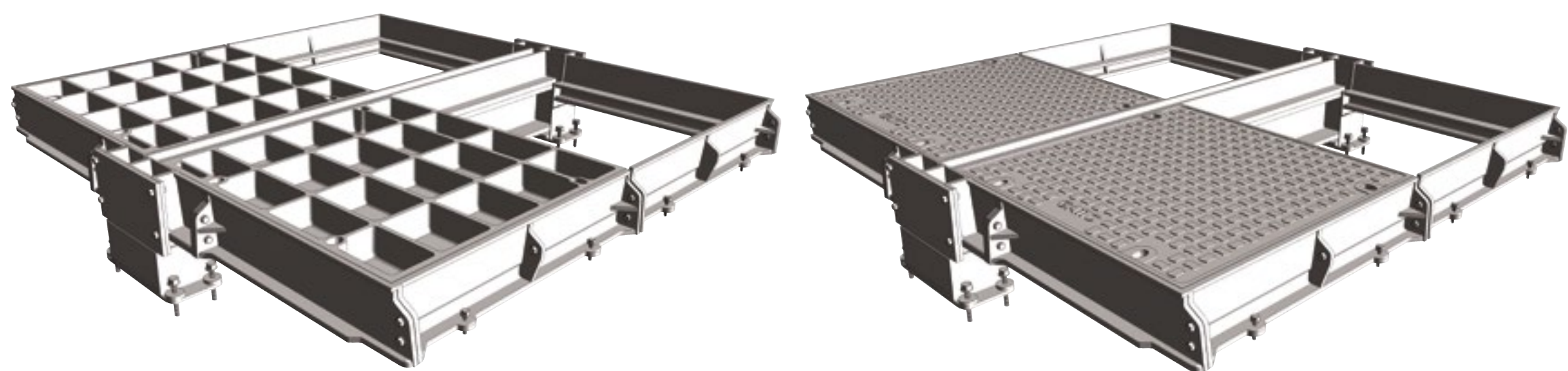


Type RSF

Spec

+44 (0) 1787 475 151

Multispan Covers and Frames



Type RRF recessed

Type RSF solid top

Beam Size

The required beam size for Multispan covers is dependent on the pit clear opening length and the loading group.

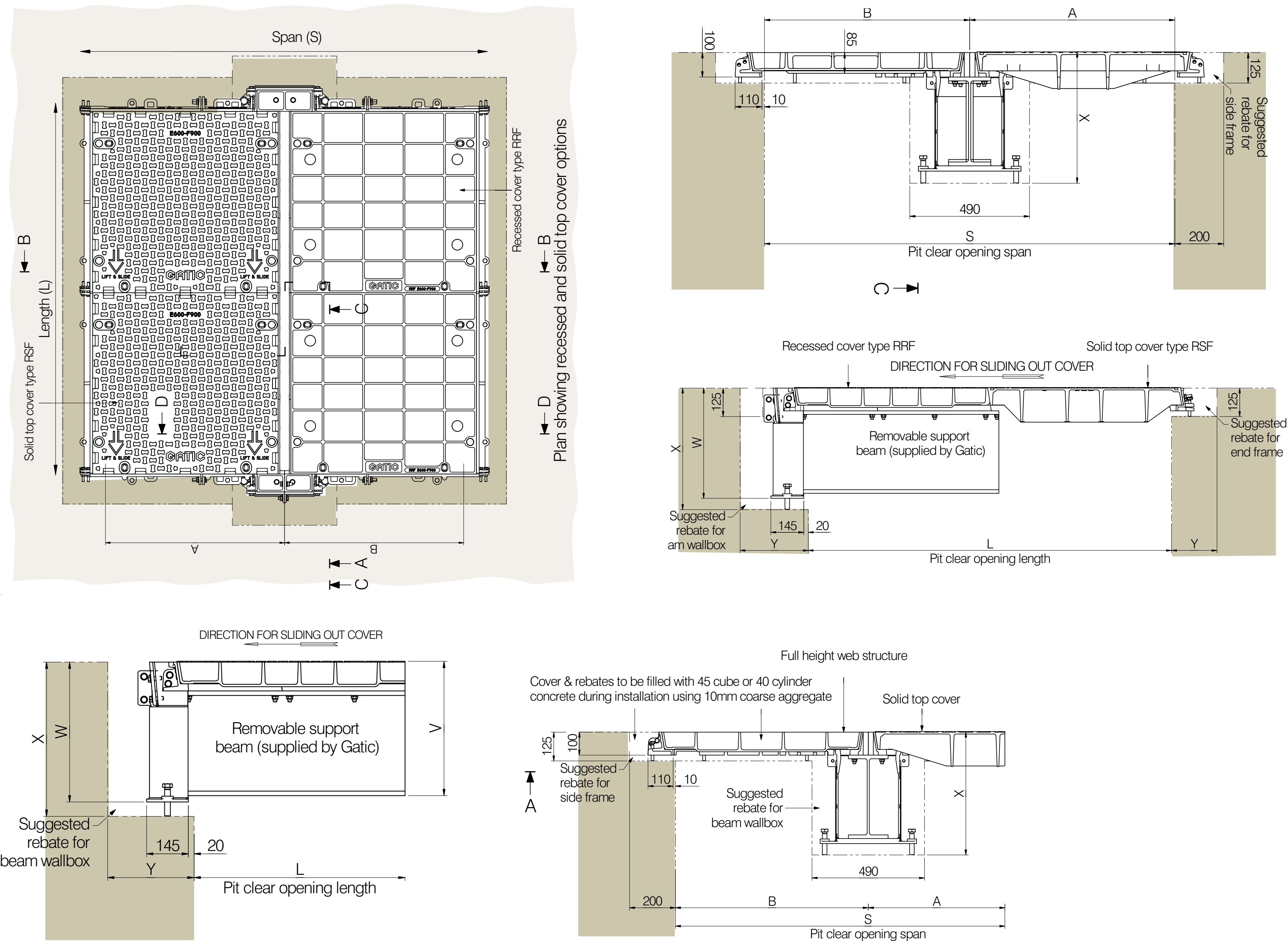
The table shows maximum beam length against beam size. The removable support beams are supplied by Gatic.

The table also indicates dimensions of the beam wallbox and rebate to suit different beam sizes. See also the accompanying section details.

Support beam size chart

Removable support beam size	Max pit clear opening length (L)	Beam wallbox dimensions			
		V	W	X	Y
305 x 165 x 54 kg/m U.B	2000	412	434	480	230
356 x 171 x 67 kg/m U.B	2450	465	487	535	300
457 x 152 x 82 kg/m U.B	2850	568	590	635	300
533 x 210 x 122 kg/m U.B	3900	647	669	715	300

Technical Diagrams

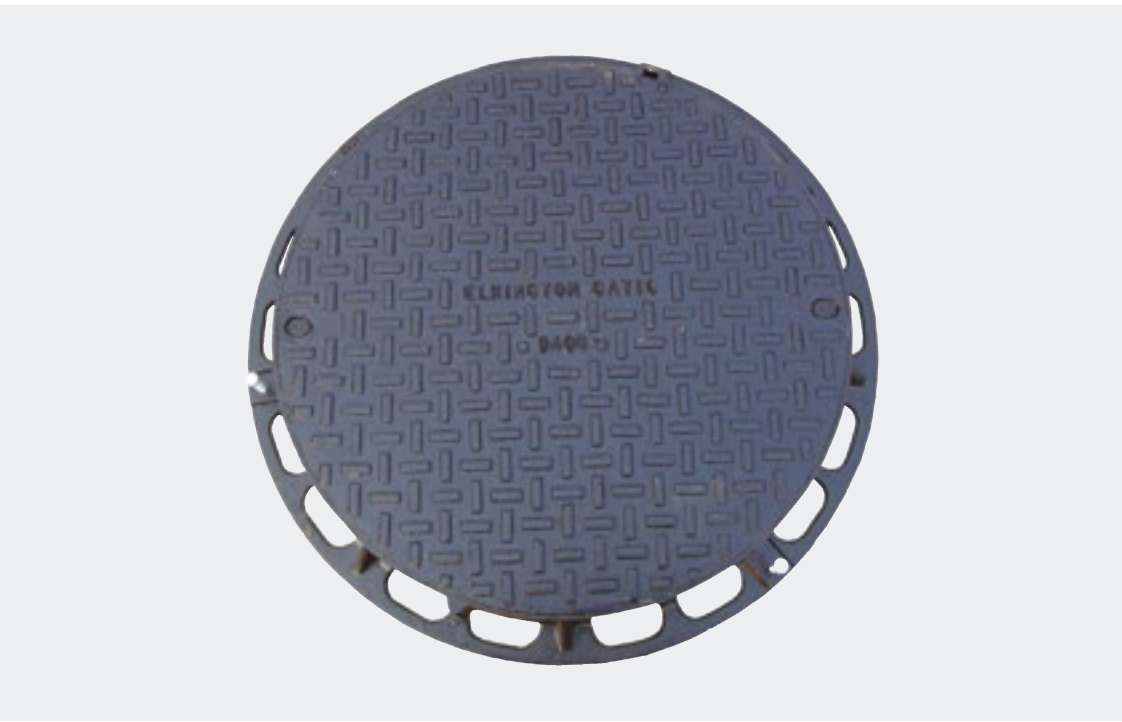


Solid Top Circular Covers

Each Circular cover is supplied with two locking bolts as standard.

To specify, state

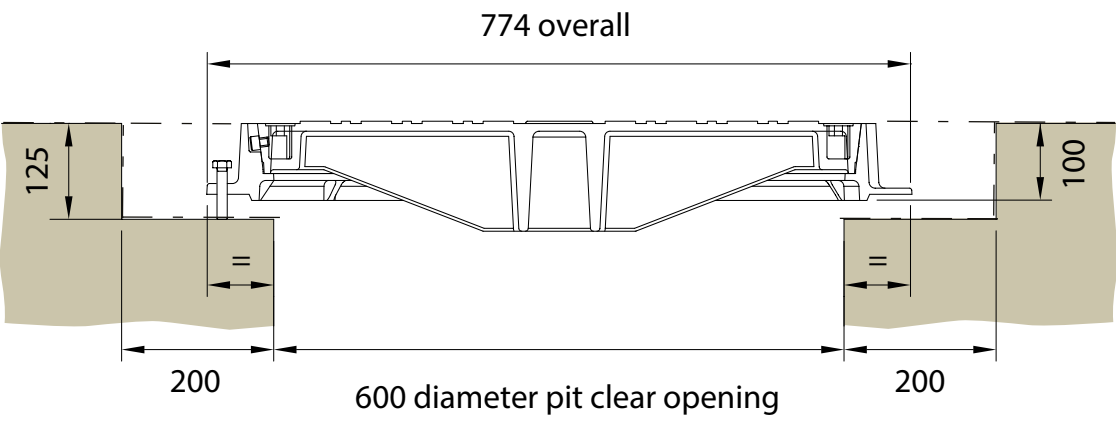
- 1. Loading group
- 2. Pit clear opening size
- 3. Cover type



Suitable for up to F900 loading.

Pit clear opening sizes	Cover type	Overall frame size	Suggested rebate size L x W x D
600mm dia.	GC	775 dia.	1000 dia.
750mm dia.	GC	925 dia.	1150 dia.
900mm dia.	GC	1075 dia.	1300 dia.

Technical Diagrams



TYPE GC



D400

*Power stations, Carriageways, hard shoulders, and
parking areas for all types of vehicle*

Loading Group D400 Introduction

Power stations, Carriageways, Data Centres, and parking areas for all types of vehicle

11.5 tonne wheel load, test load
400kN - Suitable for:

- Power stations
- Carriageways
- Data Centres
- Parking areas for all types of vehicles

D400 assemblies are available with a choice of cover designs - recessed or solid top.

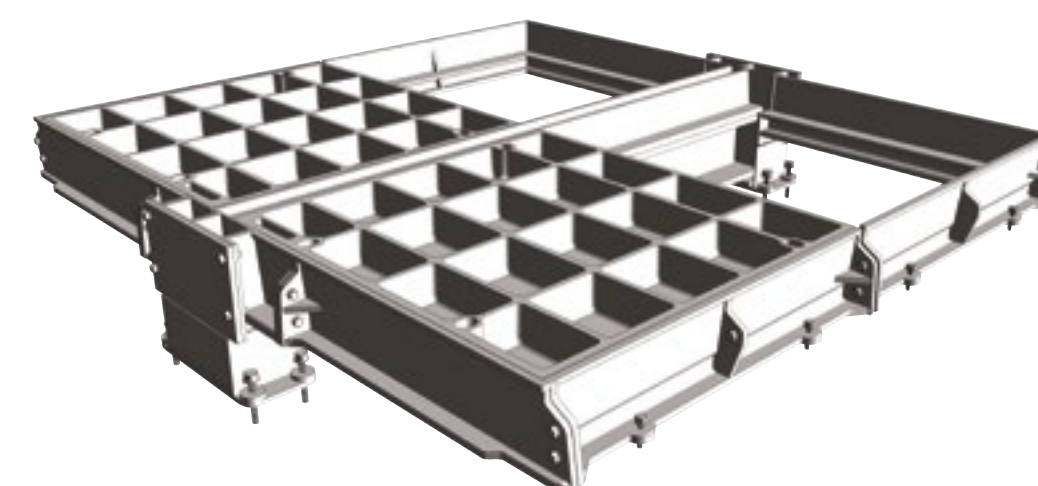
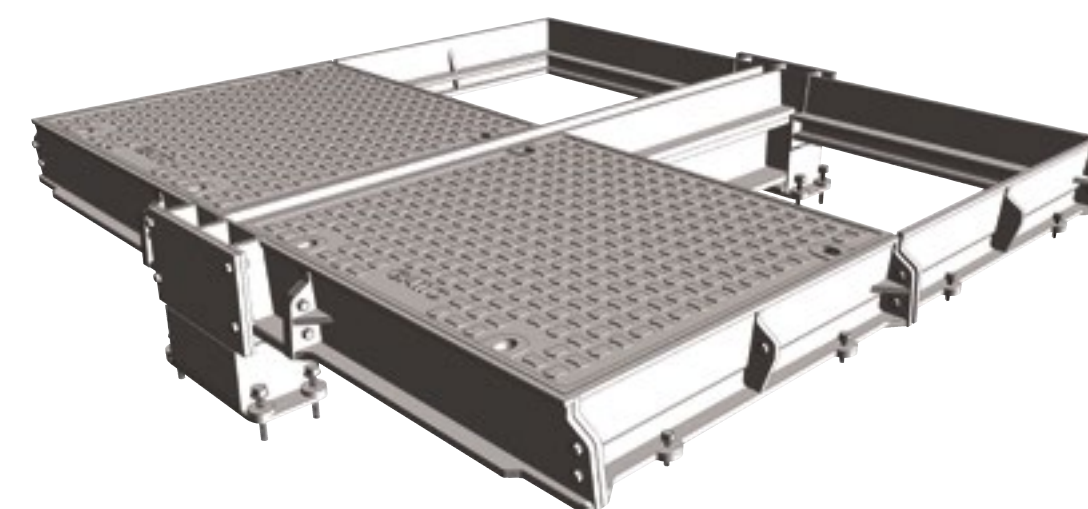
Solid top

Solid top cover types are lighter in weight than recessed covers, and feature an anti-slip surface. Solid top covers are denoted by the code Type RSD depicted in section on the following pages.

Recessed for concrete infill

Recessed covers are available in a choice of designs designated by a 'Type' reference. D400 recessed covers are available as Type DLF, DM/F, RRD. Section drawings of the different recessed cover types are shown on the following pages.

To prevent movement of covers in high traffic conditions, we recommend the use of a factory fitted vibration-resistant locking system. Can be fitted to recessed covers only. See page 14.



Gatic Pave

Gatic Pave is a comprehensive system of single, duct and multi span access covers and frames for use in paved areas where an aesthetic finish is required in environments up to D400 loading.



Product Ranges

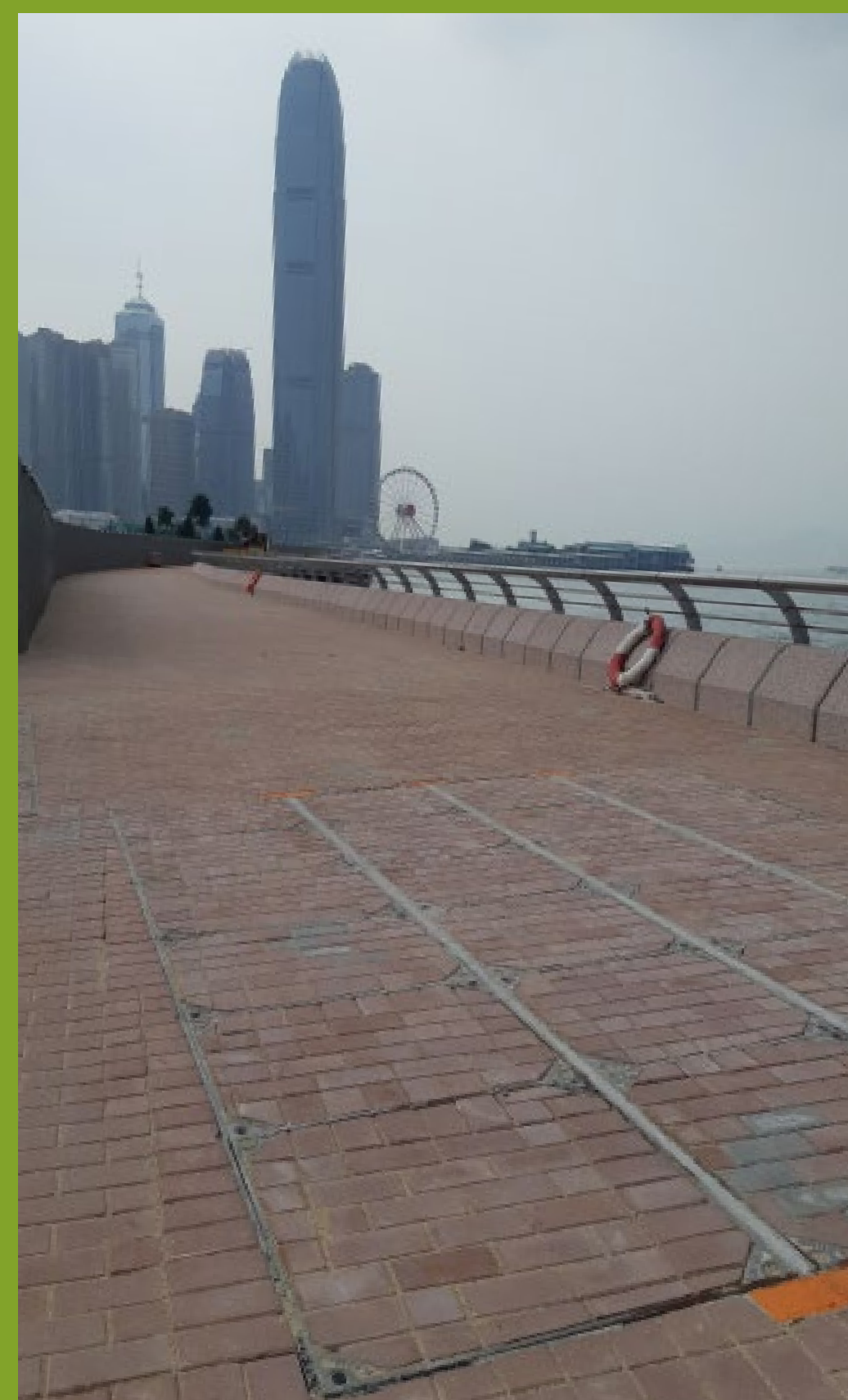
Single covers and frames



Duct covers and frames



Pave



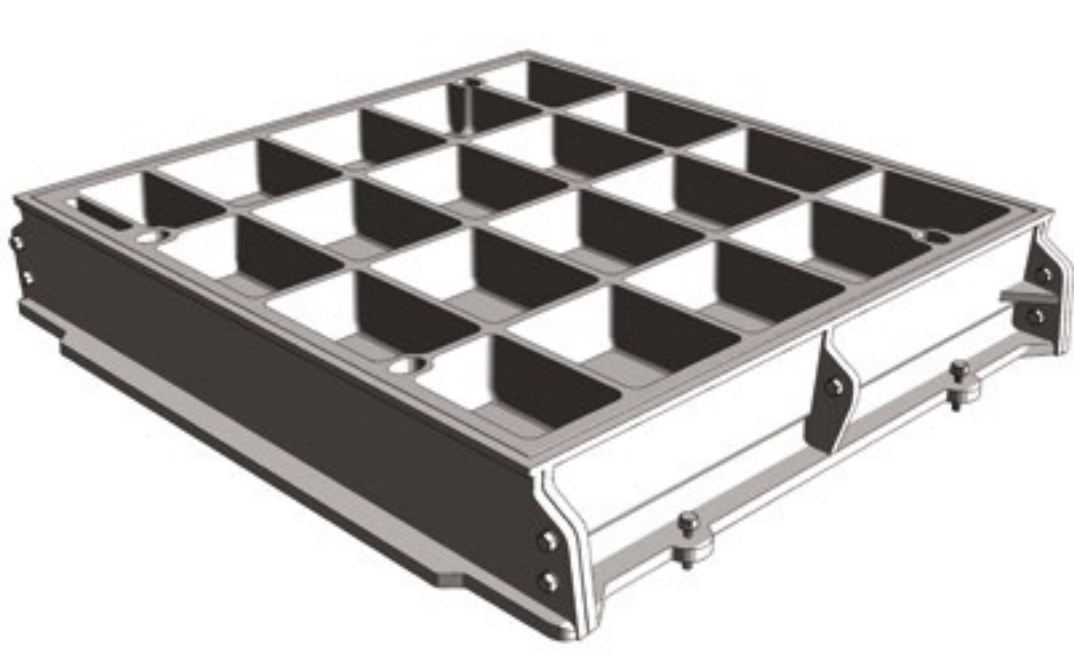
Continuous trench covers and frames



Multispan covers and frames

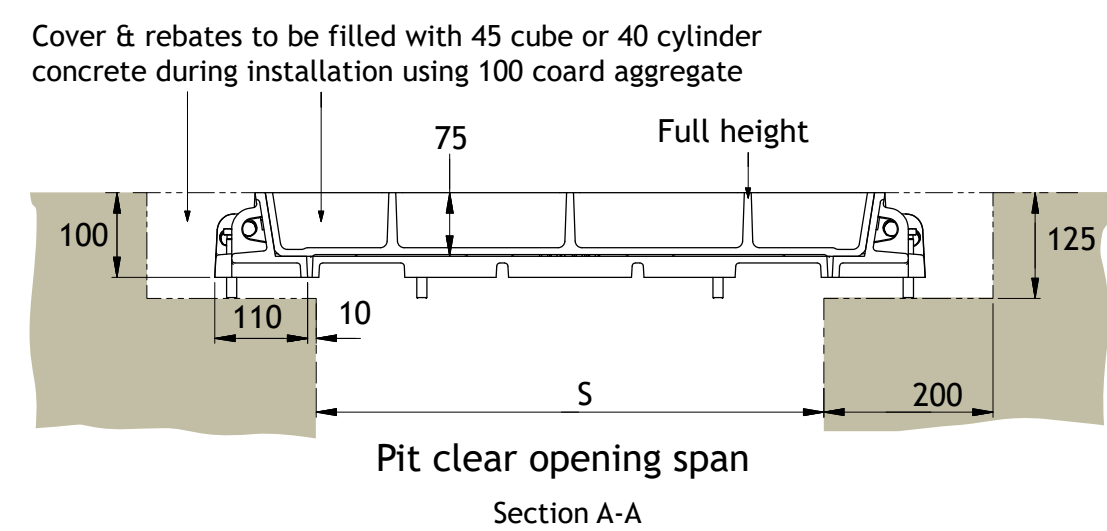


Single Recessed Covers and Frames

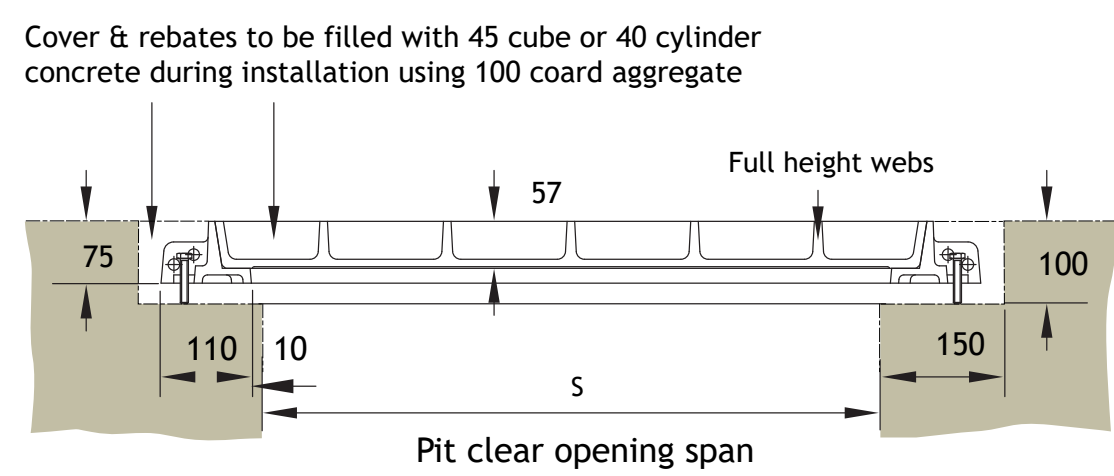


Pit clear opening sizes L x S	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
750 x 300	DLF	900 x 540 x 75	1050 x 600 x 100
600 x 450	RRF	750 x 670 x 100	1000 x 850 x 125
750 x 450	RRF	900 x 670 x 100	1150 x 850 x 125
600 x 600	RRD	750 x 840 x 100	1000 x 1000 x 125
750 x 600	RRD	900 x 840 x 100	1150 x 1000 x 125
900 x 600	RRD	1050 x 840 x 100	1300 x 1000 x 125
600 x 750	RRD	750 x 990 x 100	1000 x 1150 x 125
750 x 750	RRD	900 x 990 x 100	1150 x 1150 x 125
900 x 750	RRD	1050 x 990 x 100	1300 x 1150 x 125
900 x 900	RRD	1120 x 1140 x 100	1300 x 1300 x 125
600 x 900	RRD	750 x 1140 x 100	1000 x 1300 x 125
750 x 900	RRD	900 x 1140 x 100	1150 x 1300 x 125
600 x 1050	RRD	750 x 1290 x 100	1000 x 1450 x 125
750 x 1050	RRD	900 x 1290 x 100	1150 x 1450 x 125
1000 x 1050	DM	1220 x 1270 x 140	1400 x 1450 x 165
600 x 1200	RRD	750 x 1440 x 100	1000 x 1600 x 125
750 x 1200	RRD	900 x 1440 x 100	1150 x 1600 x 125
600 x 1500	DM/F	820 x 1720 x 140	1000 x 1900 x 165
750 x 1500	DM/F	970 x 1720 x 140	1150 x 1900 x 165

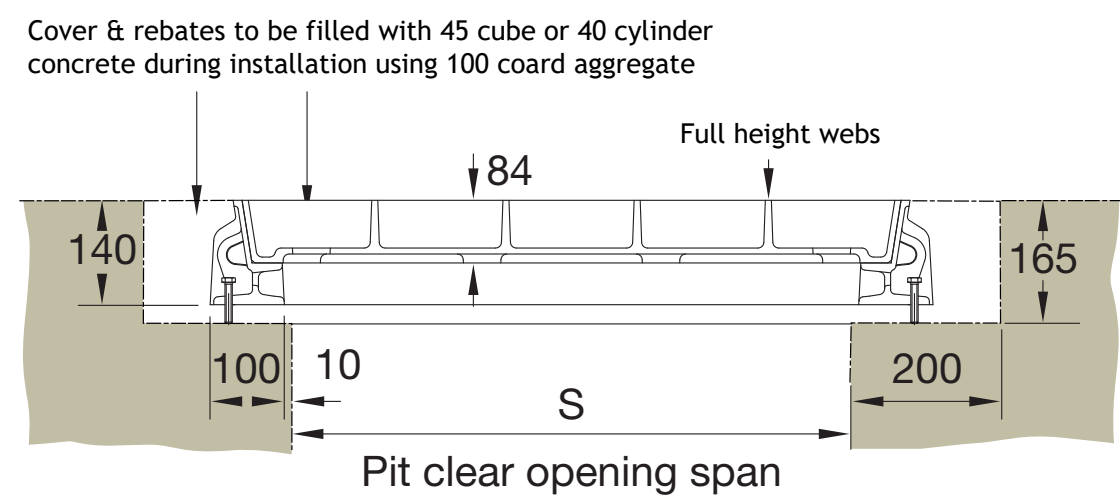
Technical Diagrams



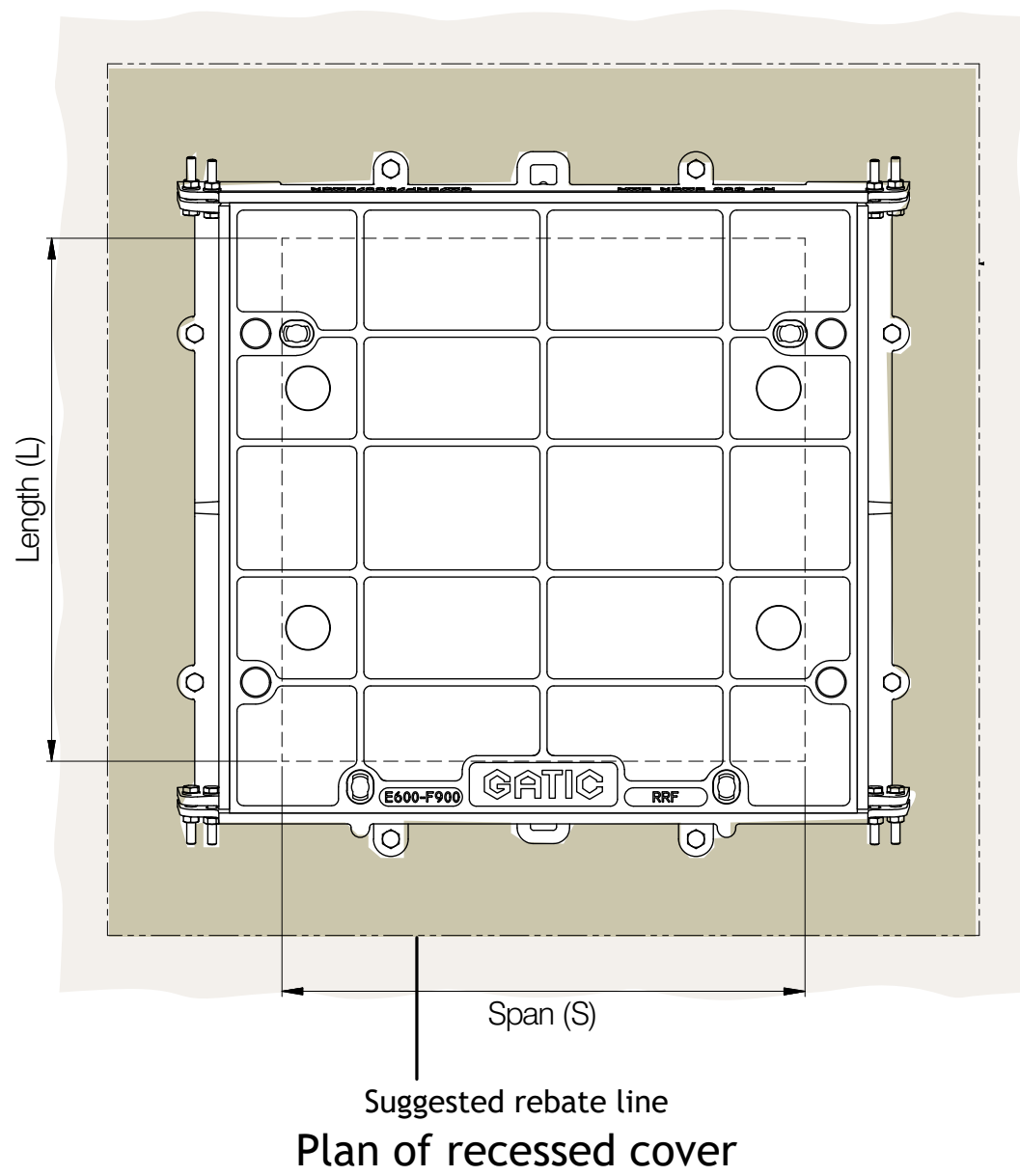
Type RRD / RRF



Type DLF



Type DM / DM/F



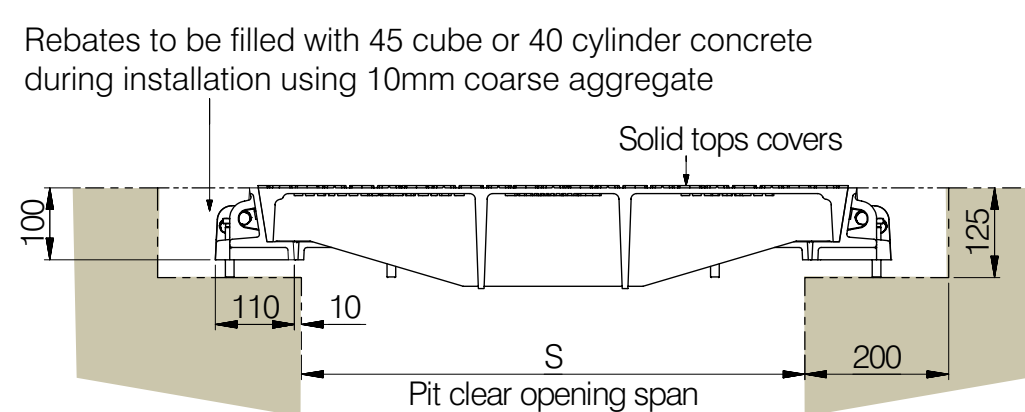
Single Solid Top Covers and Frames



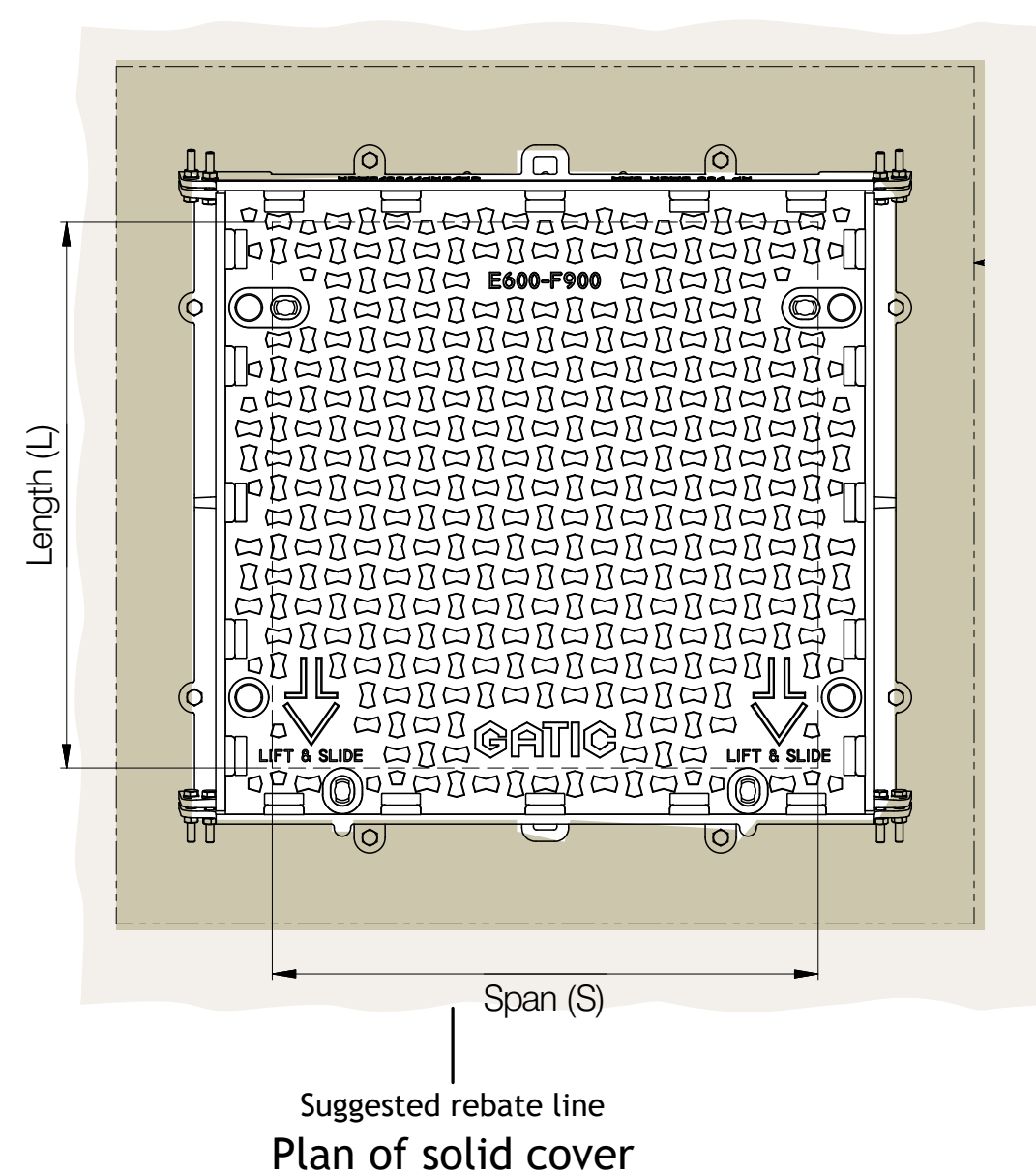
Pit clear opening sizes L x S	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
600 x 600	RSD	750 x 840 x 100	1000 x 1000 x 125
750 x 600	RSD	900 x 840 x 100	1150 x 1000 x 125
900 x 600	RSD	1050 x 840 x 100	1300 x 1000 x 125
700 x 700	RSD	850 x 940 x 100	1100 x 1100 x 125
750 x 750	RSD	900 x 990 x 100	1150 x 1150 x 125
600 x 750	RSD	750 x 990 x 100	1000 x 1150 x 125
900 x 750	RSD	1050 x 990 x 100	1300 x 1150 x 125
600 x 900	RSD	750 x 1140 x 100	1000 x 1300 x 125
750 x 900	RSD	900 x 1140 x 100	1150 x 1300 x 125
900 x 900	RSD	1120 x 1140 x 100	1300 x 1300 x 125
600 x 1200	RSD	820 x 1420 x 100	1000 x 1600 x 125
750 x 1200	RSD	970 x 1420 x 100	1150 x 1600 x 125
1000 x 1000	RSD	1220 x 1240 x 100	1400 x 1400 x 125

Rebates to filled with 45 cube or 40 cylinder concrete during installation using 10mm coarse aggregate

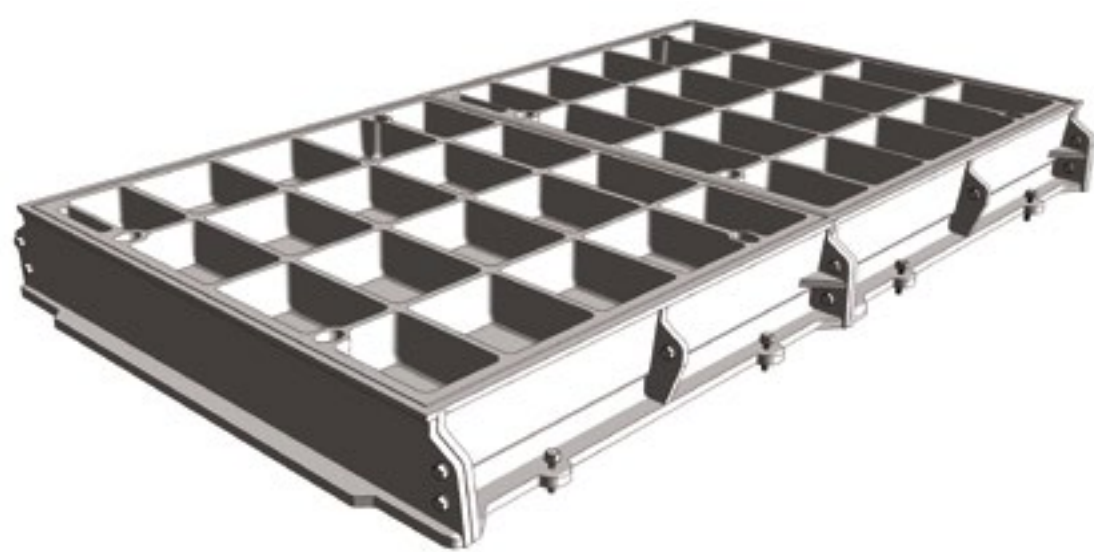
Technical Diagrams



Type RSD



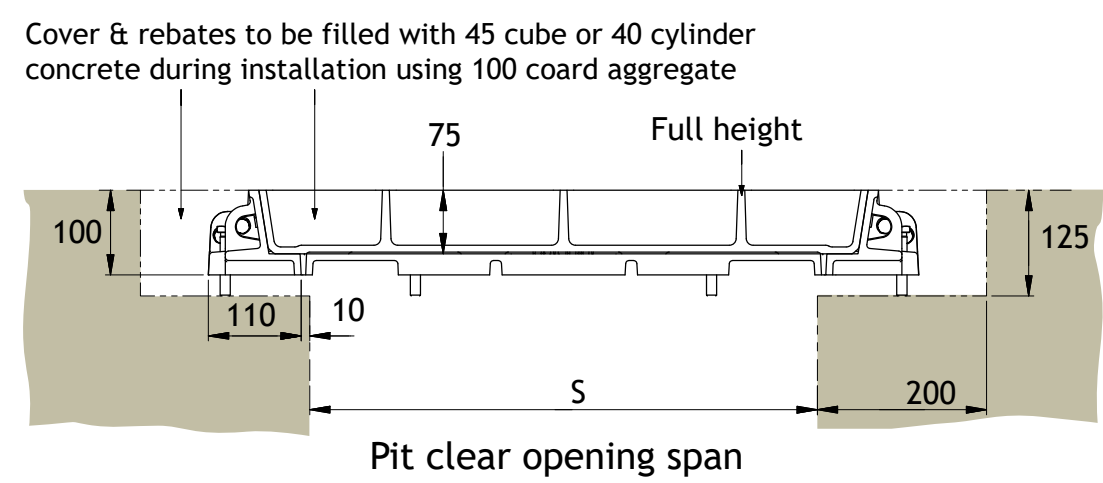
Duct Recessed Covers and Frames



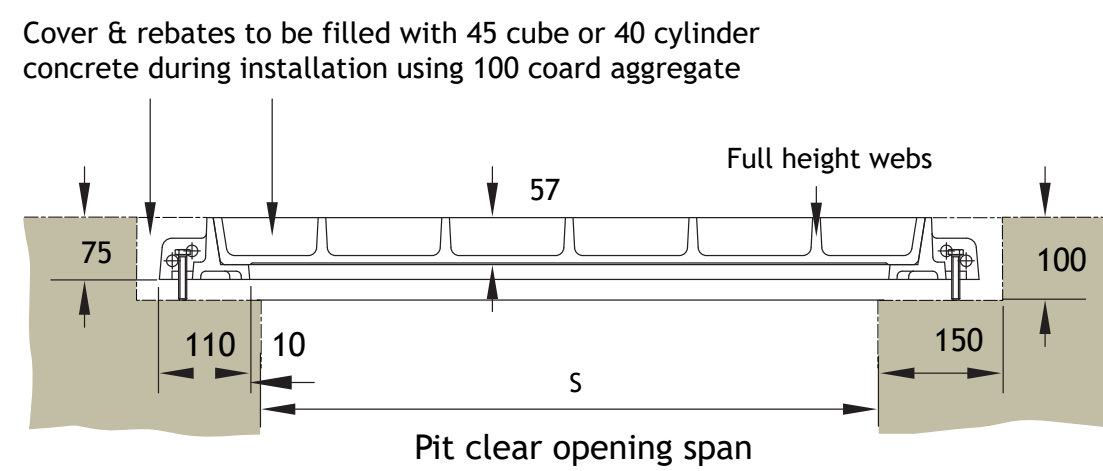
Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			1300	1450	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
300	DLF	(L + 300) x 600 x 100	*	*	2	*	*	*	*	*	3	*	*	*
450	RRF	(L + 400) x 850 x 125	2	2	2	*	*	3	3	3	3	*	4	*
600	RRD	(L + 400) x 1000 x 125	2	2	2	2	2	3	3	3	3	3	4	3
750	RRD	(L + 400) x 1150 x 125	2	2	2	2	2	3	3	3	3	3	4	3
900	RRD	(L + 400) x 1300 x 125	2	2	2	2	2	3	3	3	3	3	4	3
1050	RRD	(L + 400) x 1450 x 125	2	2	2	*	*	3	3	3	3	*	4	*
1200	RRD	(L + 400) x 1600 x 125	2	2	2	*	*	3	3	3	3	*	4	*
1500	DM/F	(L + 400) x 1900 x 165	2	2	2	*	*	3	3	3	3	*	4	*

Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			2850	2900	3000	3150	3300	3400	3550	3700	3850	3900	4000	4150
300	DLF	(L + 300) x 600 x 100	*	*	*	*	4	*	*	*	*	*	*	5
450	RRF	(L + 400) x 850 x 125	4	*	4	4	4	5	5	5	5	*	5	5
600	RRD	(L + 400) x 1000 x 125	4	3	4	4	4	5	5	5	5	4	5	5
750	RRD	(L + 400) x 1150 x 125	4	3	4	4	4	5	5	5	5	4	5	5
900	RRD	(L + 400) x 1300 x 125	4	3	4	4	4	5	5	5	5	4	5	5
1050	RRD	(L + 400) x 1450 x 125	4	*	4	4	4	5	5	5	5	*	5	5
1200	RRD	(L + 400) x 1600 x 125	4	*	4	4	4	5	5	5	5	*	5	5
1500	DM/F	(L + 400) x 1900 x 165	4	*	4	4	4	5	5	5	5	*	5	5

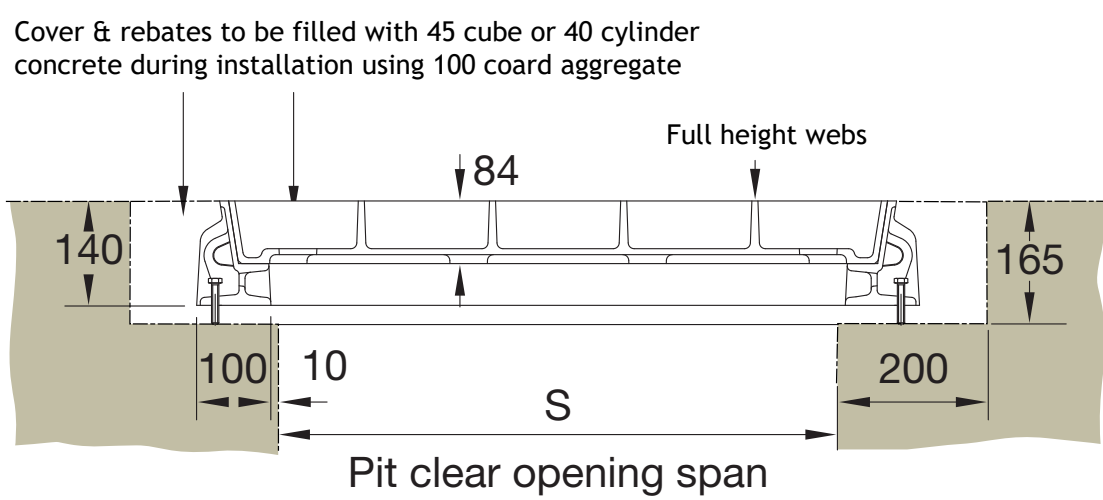
Technical Diagrams



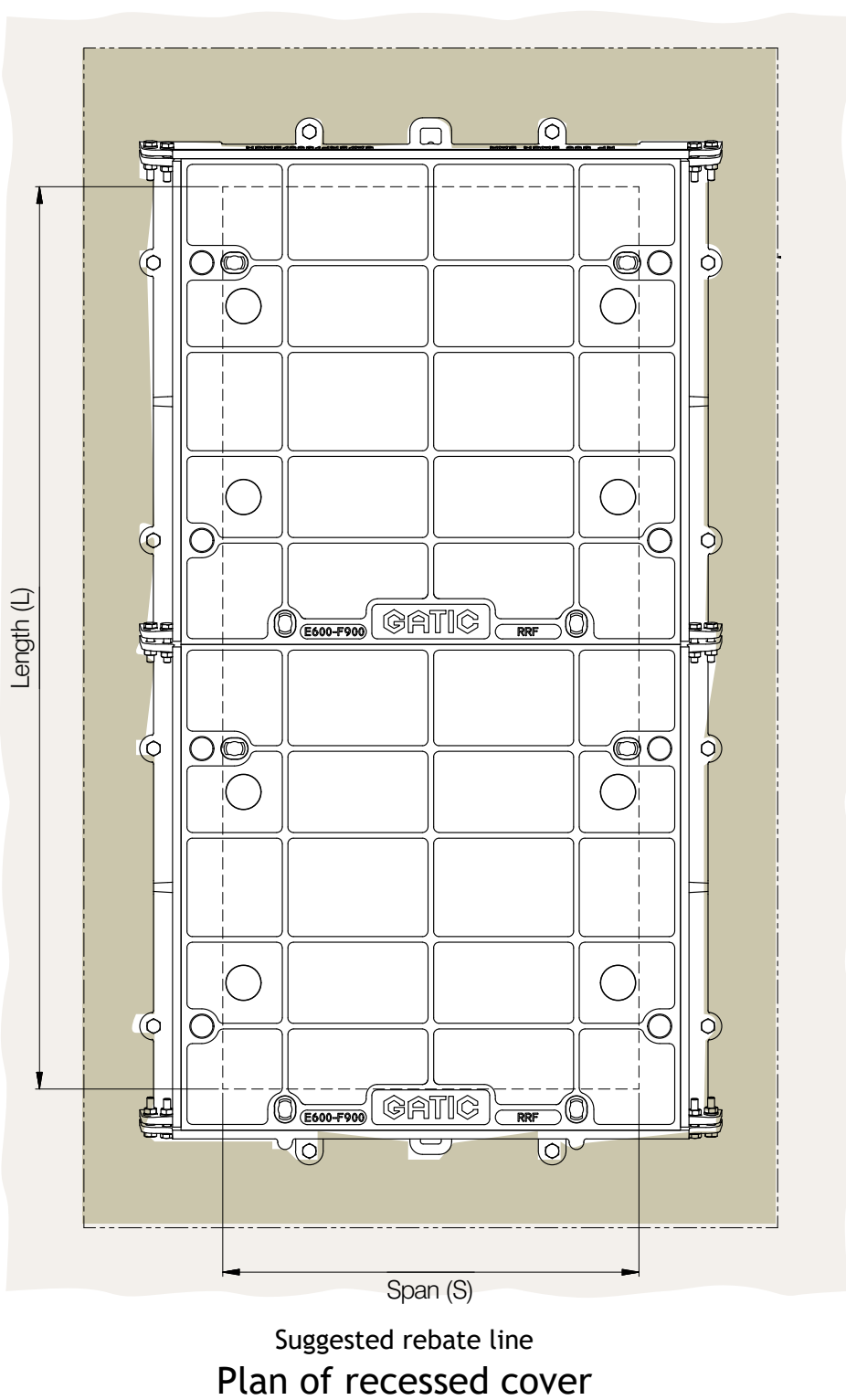
Type RRD / RRF



Type DLF



Type DM / DM/F



Duct Solid Top Covers and Frames



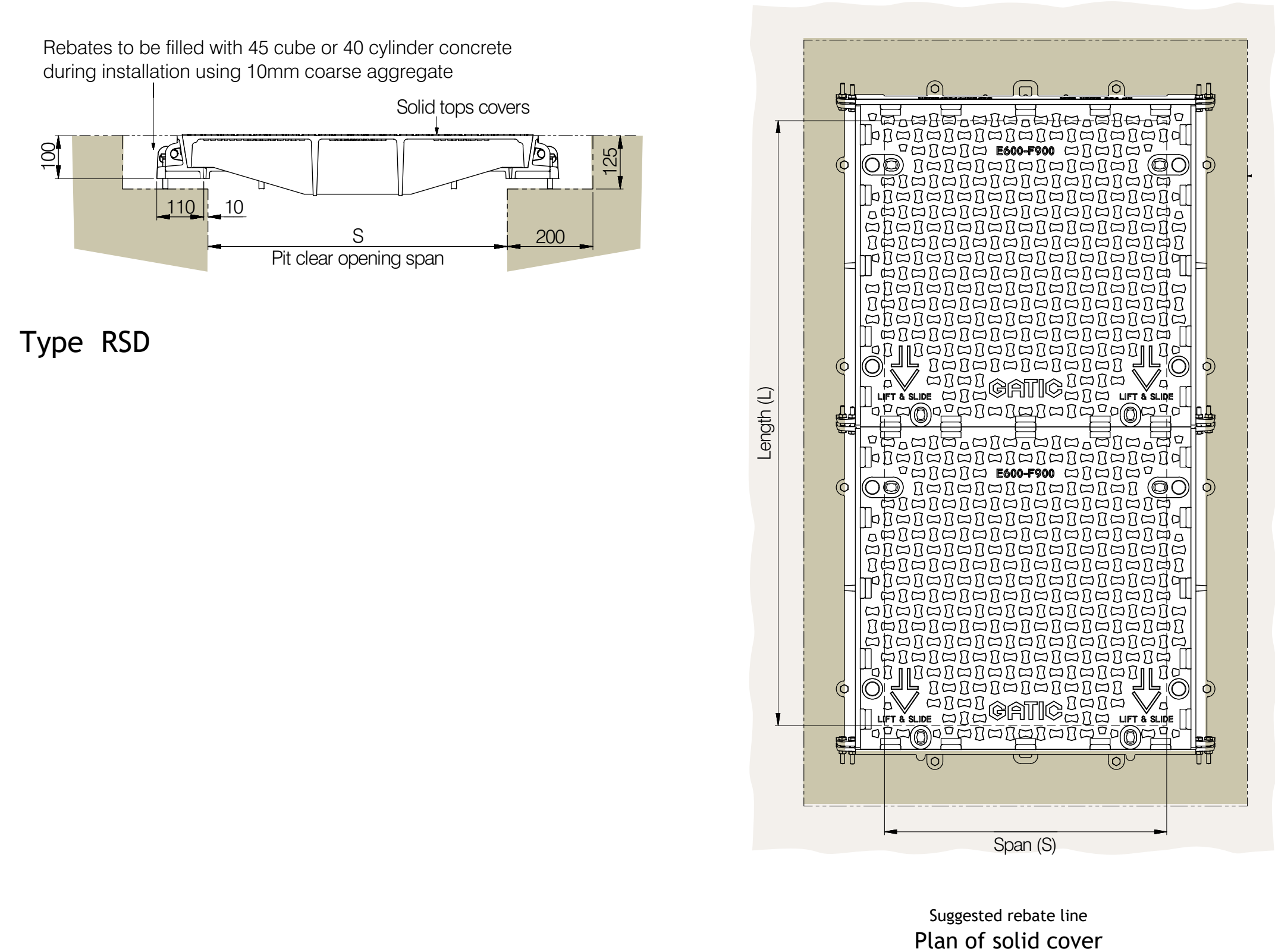
Rebates to filled with 45 cube or 40 cylinder concrete during installation using 10mm coarse aggregate

Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)												
			1300	1450	1500	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
600	RSD	(L + 400) x 1000 x 125	2	2	*	2	2	2	3	3	3	3	3	4	3
700	RSD	(L + 400) x 1100 x 125	*	*	2	*	*	*	*	*	3	*	*	*	*
750	RSD	(L + 400) x 1150 x 125	2	2	*	2	2	2	3	3	3	3	3	4	3
900	RSD	(L + 400) x 1300 x 125	2	2	*	2	2	2	3	3	3	3	3	4	3
1200	RSD	(L + 400) x 1600 x 125	2	2	*	2	*	*	3	3	3	3	*	4	*

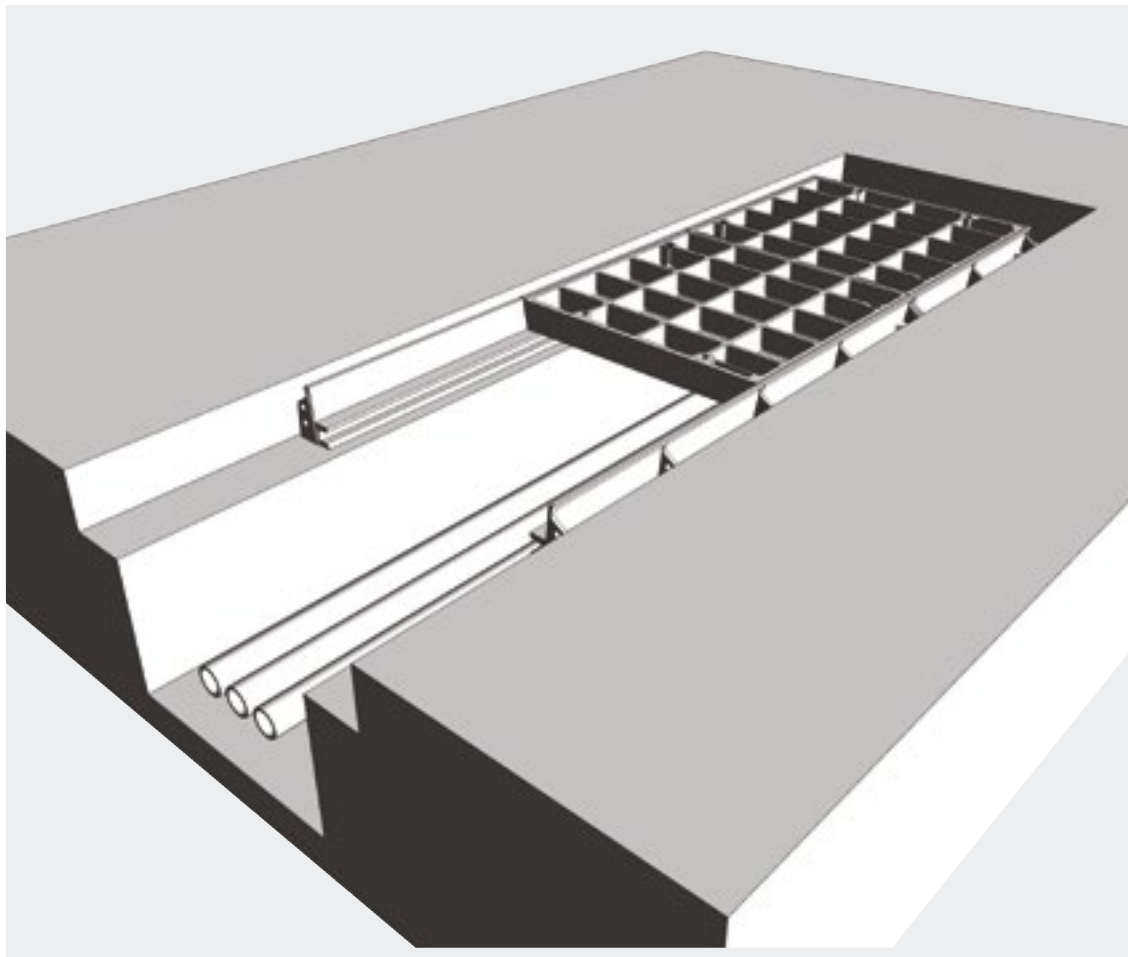
Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)												
			2850	2900	3000	3100	3150	3300	3400	3550	3700	3850	3900	4000	4150
600	RSD	(L + 400) x 1000 x 125	4	3	4	*	4	4	5	5	5	5	4	5	5
700	RSD	(L + 400) x 1100 x 125	*	*	*	4	*	*	*	*	*	*	5	*	*
750	RSD	(L + 400) x 1150 x 125	4	3	4	*	4	4	5	5	5	5	4	5	5
900	RSD	(L + 400) x 1300 x 125	4	3	4	*	4	4	5	5	5	5	4	5	5
1200	RSD	(L + 400) x 1600 x 125	4	*	4	*	4	4	5	5	5	5	*	5	5

For high density traffic conditions refer to page 14.

Technical Diagrams



Continuous Recessed Trench Covers and Frames

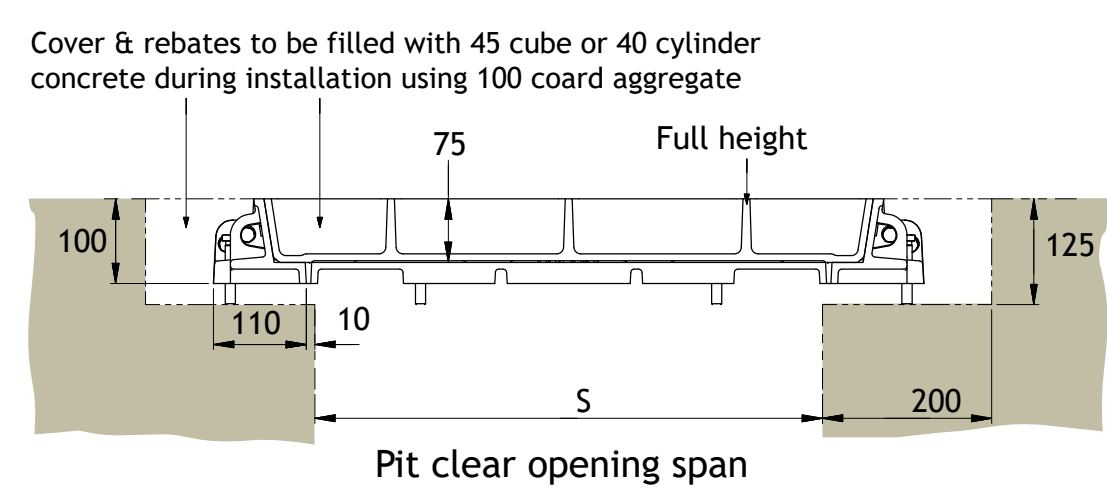


Pit clear opening span (S)	Cover type
300	DLF
450	RRF
600	RRD
750	RRD
900	RRD
1050	RRD
1050	DM
1200	RRD
1200	DM
1500	DM/F

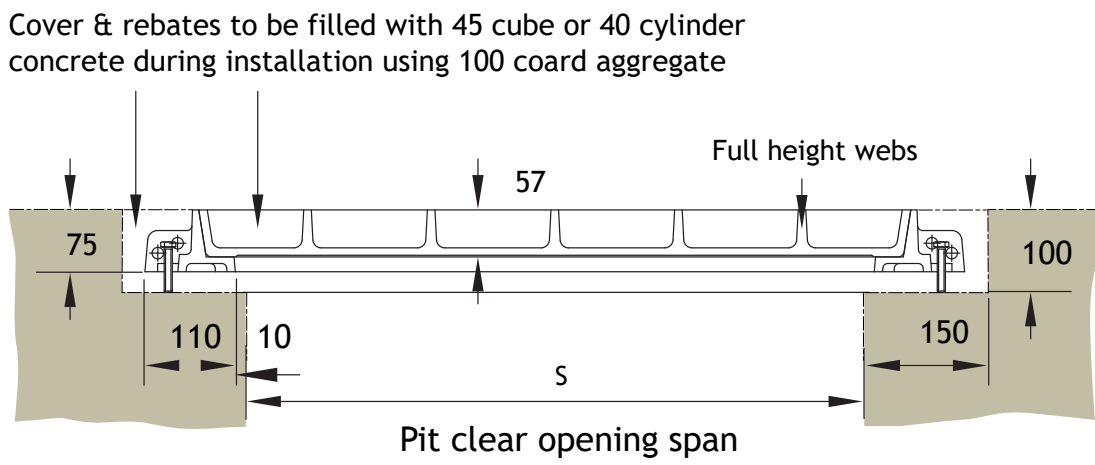
Gatic covers can be formed to make continuous trenches or layouts providing total access to services below.

Construction drawings are required so that Gatic cover layout drawings can be prepared.

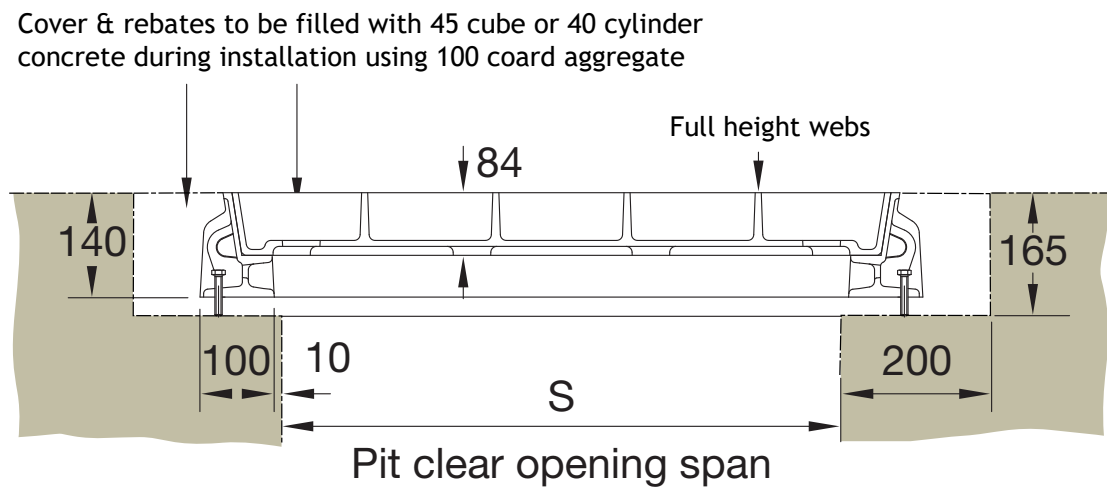
Technical Diagrams



Type RRD / RRF

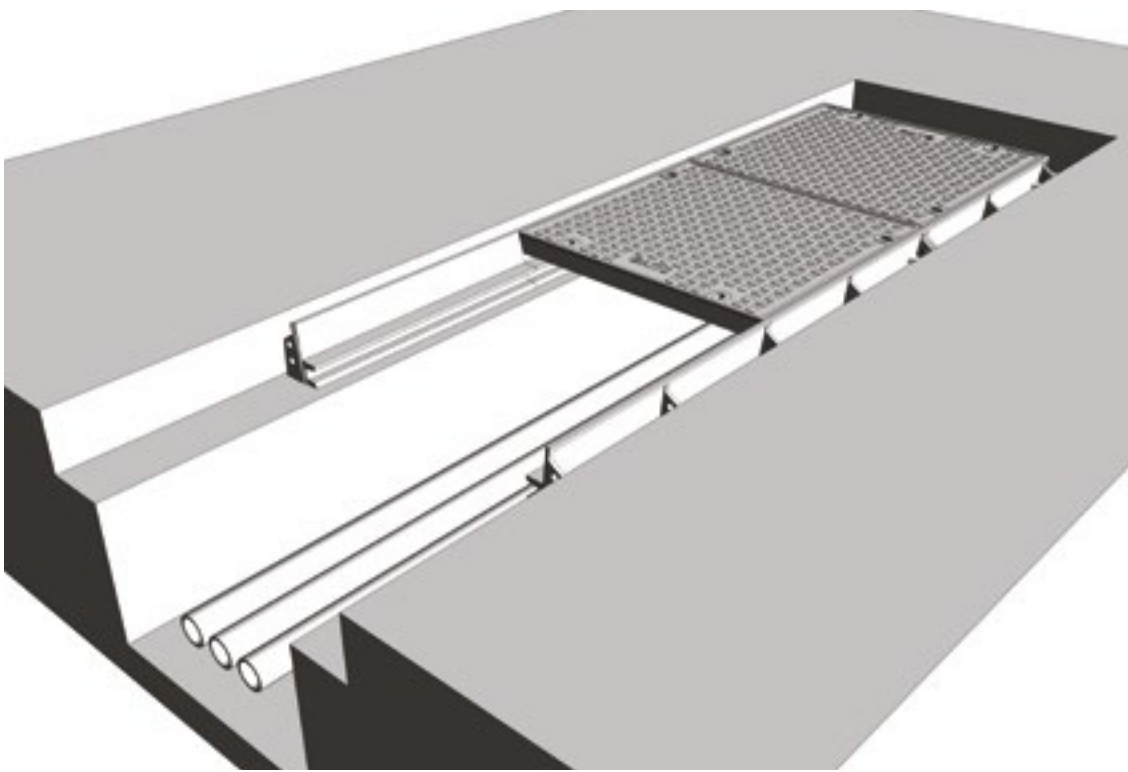


Type DLF



Type DM / DM/F

Continuous Solid Top Trench Covers and Frames

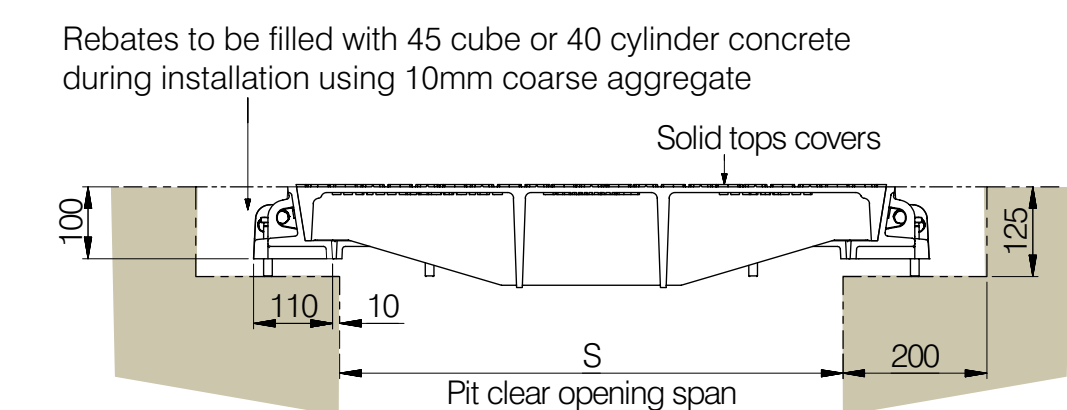


Pit clear opening span	Cover type
600	RSD
700	RSD
750	RSD
900	RSD
1050	RSD
1200	RSD

Rebates to filled with 45 cube or 40 cylinder concrete during installation using 10mm coarse aggregate

Standard solid top covers are supplied in straight runs. Junctions and splays can be achieved by the inclusion of localised recessed covers. Refer to our technical department for more information.

Technical Diagrams



Type RSD


Multispan covers and frames


Product Selection


Refer to the table to identify which cover and beam configuration you require against pit clear opening length (L) and pit clear opening span (S). All dimensions are in millimetres. Gatic can achieve sizes beyond the extent of those listed in the table - please speak to the Gatic technical team for further details.

		Pit clear opening span (S) mm																																				
		2 parts 1 beam					3 parts 2 beams					4 parts 3 beams					5 parts 4 beams																					
		1380	1530	1680	1830	1980	2160	2310	2460	2610	2760	2910	3060	2940	3090	3240	3390	3540	3690	3840	3990	4140	3720	3870	4020	4170	4320	4470	4620	4770	4920	5070	5220					
Pit clear opening length (L) mm	2 parts	1300																																				
		1450																																				
		1600																																				
		1750																																				
		1900																																				
		4 part (2x2) multispan cover with 1 removable support beam					6 part (2x3) multispan cover with 2 removable support beam					8 part (2x4) multispan cover with 3 removable support beam					10 part (2x5) multispan cover with 4 removable support beam																					
3 parts	2000																																					
	2150																																					
	2300																																					
	2450																																					
	2600																																					
		6 part (3x2) multispan cover with 1 removable support beam					9 part (3x3) multispan cover with 2 removable support beam					12 part (3x4) multispan cover with 3 removable support beam					15 part (3x5) multispan cover with 4 removable support beam																					
4 parts	2700																																					
	2850																																					
	3000																																					
	3150																																					
	3300																																					
		8 part (4x2) multispan cover with 1 removable support beam					12 part (4x3) multispan cover with 2 removable support beam					16 part (4x4) multispan cover with 3 removable support beam					20 part (4x5) multispan cover with 4 removable support beam																					
Beam centres mm		A	690	840	840	990	990	B	690	690	840	840	990	990	C	690	780	780	930	930	1080	1080	D	690	780	780	930	930	1080	1080	E	690	780	780	930	930	1080	1080

Note: For other pit clear opening sizes please refer to our technical department

 Inset lines denote pit opening

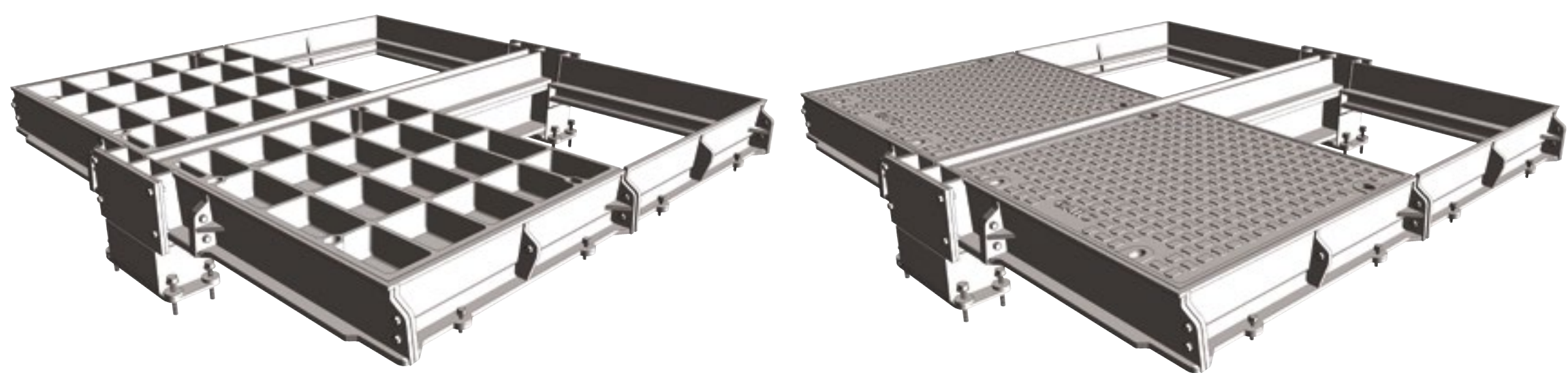
 Cover

 Beam

L = Pit clear opening length

S = Pit clear opening span

Multispan Covers and Frames



Type RRD recessed

Type RSD solid top

Beam Size

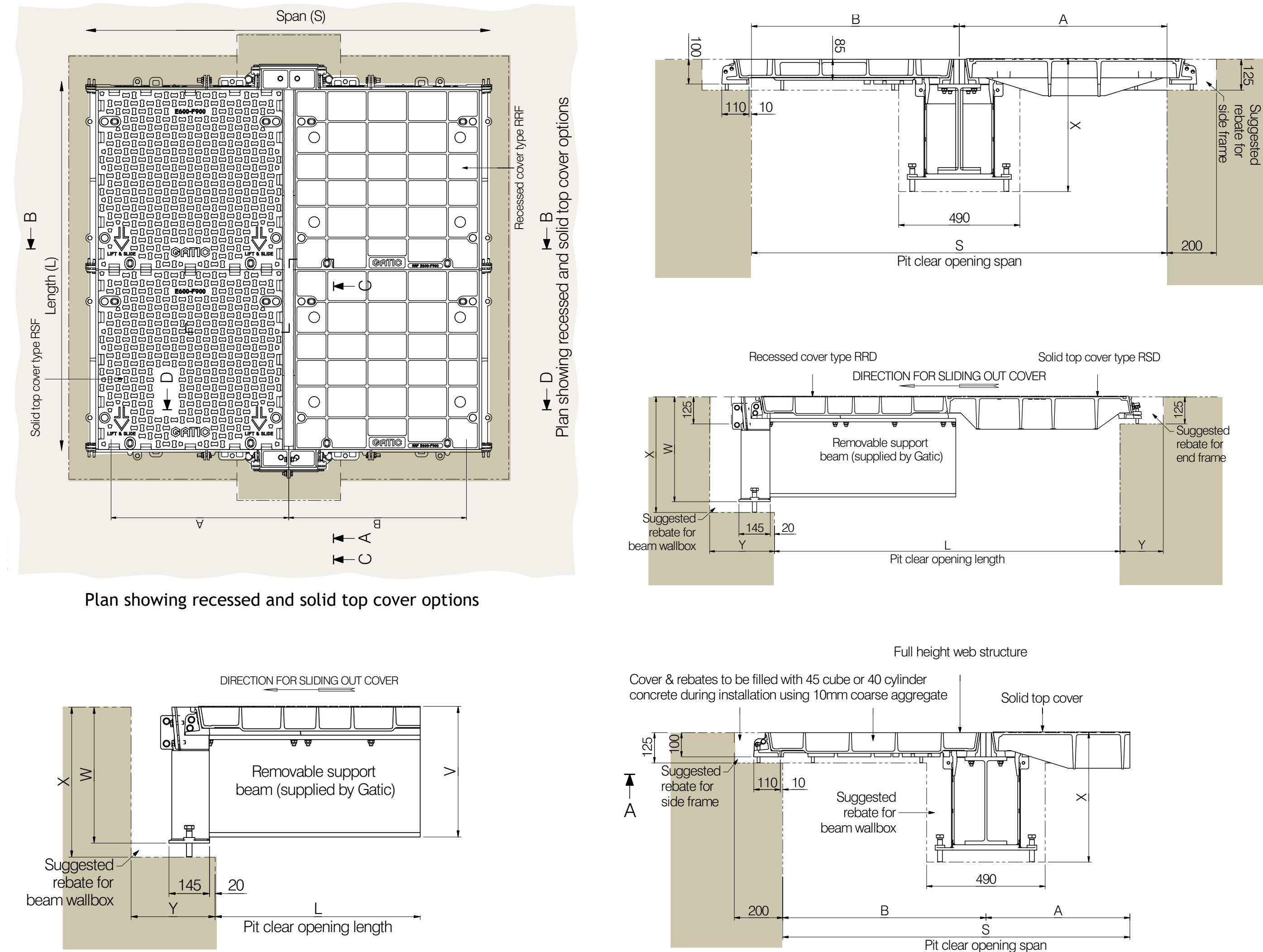
The required beam size for Multispan covers is dependent on the pit clear opening length and the loading group.

The table shows maximum beam length against beam size. The removable support beams are supplied by Gatic.

Removable support beam size	Max pit clear opening length (L)	Beam wallbox dimensions			
		V	W	X	Y
152 x 152 x 37 kg/m U.C	1750	264	286	330	230
203 x 203 x 52 kg/m U.C.	2300	308	330	370	230
305 x 165 x 54 kg/m U.B	2750	412	434	480	230
356 x 171 x 67 kg/m U.B	3150	465	487	535	300
457 x 152 x 82 kg/m U.B	3450	568	590	635	300
533 x 210 x 122 kg/m U.B	3900	647	669	715	300

Note: Removable support beams are supplied by Gatic

Technical Diagrams



Solid Top Circular Covers

Each Circular cover is supplied with two locking bolts as standard.

To specify, state

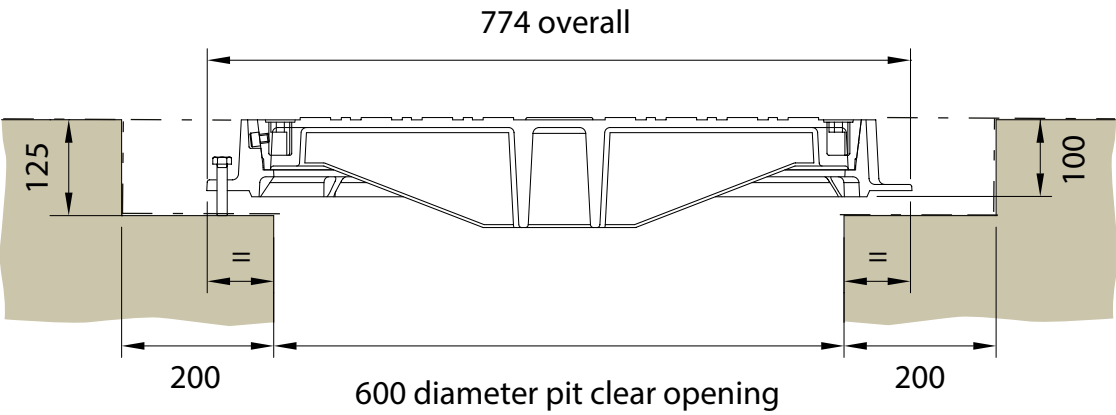
- 1. Loading group
- 2. Pit clear opening size
- 3. Cover type



Suitable for up to F900 loading.

Pit clear opening sizes	Cover type	Overall frame size	Suggested rebate size L x W x D
600mm dia.	GC	775 dia.	1000 dia.
750mm dia.	GC	925 dia.	1150 dia.
900mm dia.	GC	1075 dia.	1300 dia.

Technical Diagrams



TYPE GC

Gatic Pave is a comprehensive system of single, duct and multi span access covers and frames for use in paved areas where an aesthetic finish is required in environments up to D400 loading.

Environmental commitment:

Responsibility towards the environment is our primary concern. Our customers often now demand products that are made from recycled and recyclable materials, supplied by companies with robust environmental policies to reduce the environmental impact of their projects for future generations.

To meet these requirements we have an integrated Quality (BS EN ISO 9001) and Environmental (BS EN ISO 14001) Management System which encompasses the design, manufacture and management systems within the company and ensures our commitment to continuous environmental improvements regarding the manufacture and design of all our products in the following ways:

- Minimise environmental impact
- Commit organisational resources to energy management
- Reduce energy costs
- Give high priority to energy efficient investments
- Consider life cycle energy costs for all new projects
- Minimise CO2 emissions year on year
- Use energy from sustainable resources wherever possible

To achieve these goals we have put in place the necessary systems and controls to meet demanding environmental targets and to make sure that these are maintained for the future benefit of the environment and our customers alike.

Gatic services:

Gatic offers a full support service to specifiers and contractors, including Computer Aided Design. AutoCAD compatible details of all Gatic products are available. Please consult our technical department for assistance.

In view of our commitment to product improvement, we reserve the right to alter designs without notice. Design changes will not adversely affect the performance or loading capability of our products.



Lifting Keys

Gatic recommends that due to their weight with paviour infill, when Pave covers are removed they are lifted using Gatic's Mechanical lifting keys.

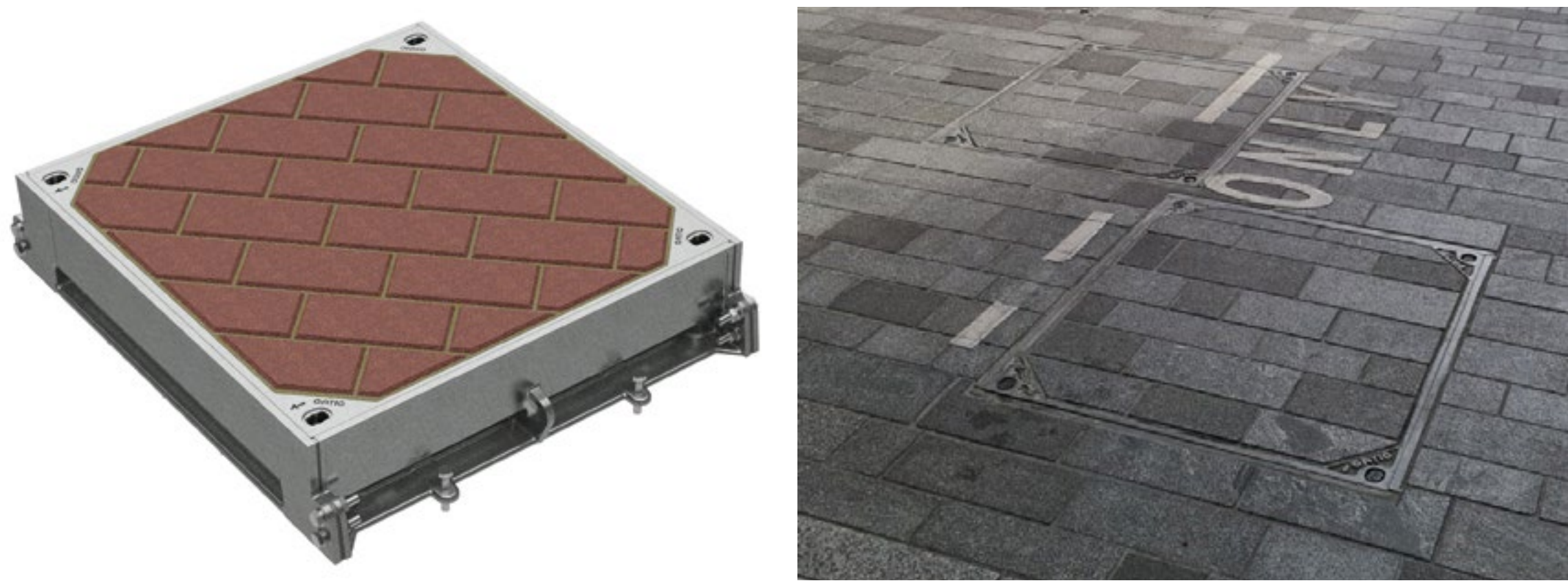
A Mechanical lifting key is inserted into each of the four keyways found on all Gatic

Pave covers which are designed and tested for use with cranes and other mechanical devices

Full operating and installation instructions are available from Gatic.



Suitable for 11.5 tonne slow moving pneumatic wheel load. Cover test load - 400kN



Pit clear opening size	Cover type	Overall Frame Size	Suggested rebate size
600 x 600	PAV	750 x 840 x 170	1000 x 1000 x 195
600 x 750	PAV	750 x 990 x 170	1000 x 1150 x 195
750 x 600	PAV	900 x 840 x 170	1150 x 1000 x 195
750 x 750	PAV	900 x 990 x 170	1150 x 1150 x 195

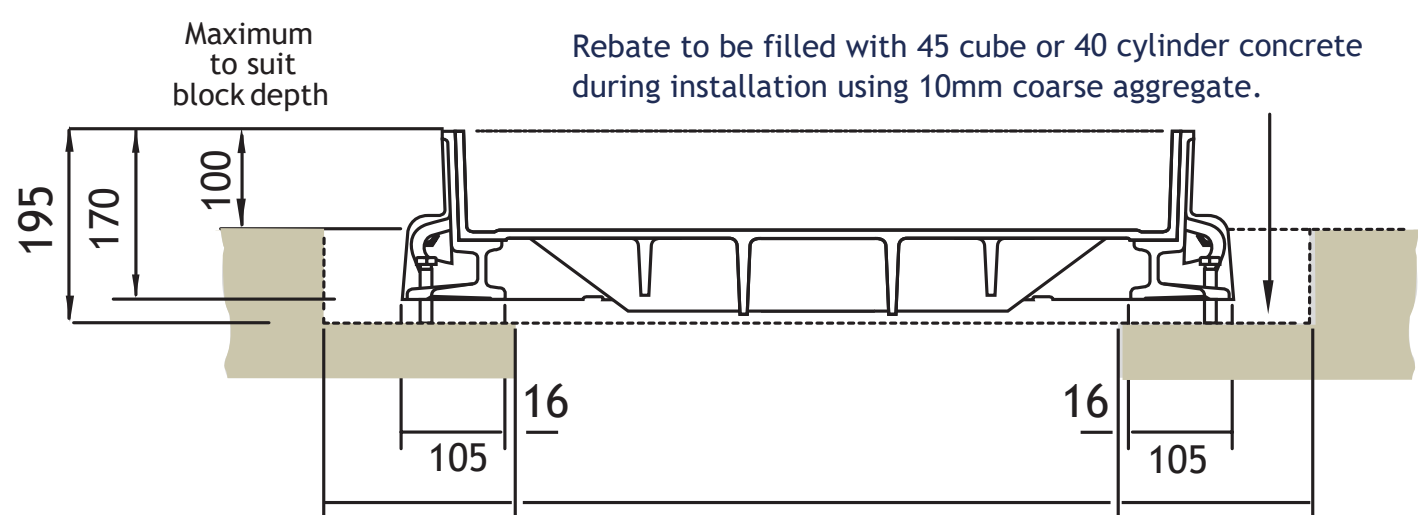
Pave covers can be supplied to cover ducts or trenches as straight runs.

Pit clear opening spans (mm)	Cover type	Suggested rebate size	Standard Pit clear opening lenght									
			1300	1450	1600	2000	2150	2300	2450	2700	2850	3000
600	PAV	(L + 400) x 1000 x 195	2	2	2	3	3	3	3	4	4	4
750	PAV	(L + 400) x 1150 x 195	2	2	2	3	3	3	3	4	4	4


Pit clear opening spans (mm)	Cover type	Suggested rebate size	Standard Pit clear opening lenght								
			3150	3300	3400	3550	3700	3850	4000	4100	4150
600	PAV	(L + 400) x 1000 x 195	4	4	5	5	5	5	5	6	5
750	PAV	(L + 400) x 1150 x 195	4	4	5	5	5	5	5	6	5

The number shown indicates the quantity of cover parts. Other cover sizes may be available. Please refer to our technical department.

Technical Diagrams



Refer to the table to identify which cover and beam configuration you require against pit clear opening lenght (L) and pit clear opening span (S). All dimensions are in millimetres.

		Pit clear opening span (S) mm			
		2 parts 1 beam	3 parts 2 beams	4 parts 3 beams	5 parts 4 beams
Pit clear opening length (L) mm	2 parts	1380 1530 1680	2160 2310 2460 2610	2940 3090 3240 3390 3540	3720 3870 4020 4170 4320 4470
		4 part (2x2) multispan cover with 1 removable support beam	6 part (2x3) multispan cover with 2 removable support beam	8 part (2x4) multispan cover with 3 removable support beam	10 part (2x5) multispan cover with 4 removable support beam
	3 parts	2000 2150 2300 2450			
		6 part (3x2) multispan cover with 1 removable support beam	9 part (3x3) multispan cover with 2 removable support beam	12 part (3x4) multispan cover with 3 removable support beam	15 part (3x5) multispan cover with 4 removable support beam
	4 parts	2700 2850 3000 3150 3300			
		8 part (4x2) multispan cover with 1 removable support beam	12 part (4x3) multispan cover with 2 removable support beam	16 part (4x4) multispan cover with 3 removable support beam	20 part (4x5) multispan cover with 4 removable support beam
Beam centres mm	A	690	690	690	690
	B	690	780	780	780
	C	840	930	780	930
	D	840	840	930	780
	E	840	840	840	930
 Inset lines denote pit opening		 Cover	 Beam	L = Pit clear opening length S = Pit clear opening span	

Note: For other pit clear opening sizes please refer to our technical department

Suitable for 11.5 tonne slow moving pneumatic wheel load. Cover test load - 400kN



Gatic Pave

Beam Size

The required beam size for Multispan covers is dependent on the pit clear opening length and the loading group.

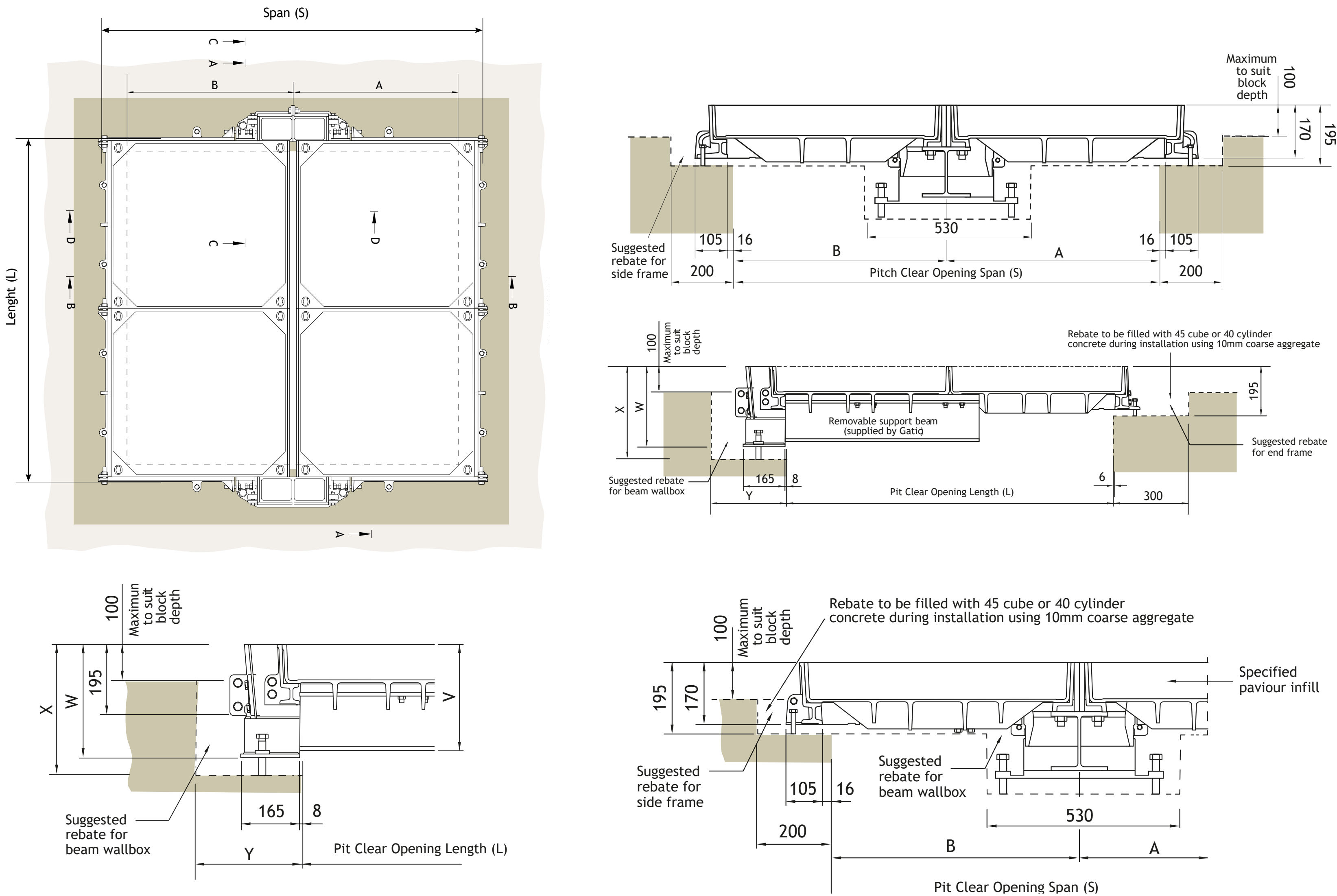
The table shows maximum beam length against beam size. The removable support beams are supplied by Gatic.

The table also indicates dimensions of the beam wallbox and rebate to suit different beam sizes. See also the accompanying

Support beam size chart

Removable support beam size	Max pit clear opening length (L)	Beam wallbox dimensions			
		V	W	X	Y
152 x 152 x 37 kg/m U.C	1750	297	319	365	230
203 x 203 x 52 kg/m U.C.	2300	341	363	405	230
305 x 165 x 54 kg/m U.B	2750	445	467	515	230
356 x 171 x 67 kg/m U.B	3150	498	520	570	300
457 x 152 x 82 kg/m U.B	3450	601	623	670	300
533 x 210 x 122 kg/m U.B	3900	680	702	750	300

Technical Diagrams



C250

*For roads carrying relatively slow-moving traffic
e.g. minor residential roads, cul-de-sacs, pedestrian
precincts, yards, etc*



Loading Group C250 Introduction

For roads carrying relatively slow-moving traffic eg, minor residential roads, cul-de-sacs, pedestrian precincts, yards, etc

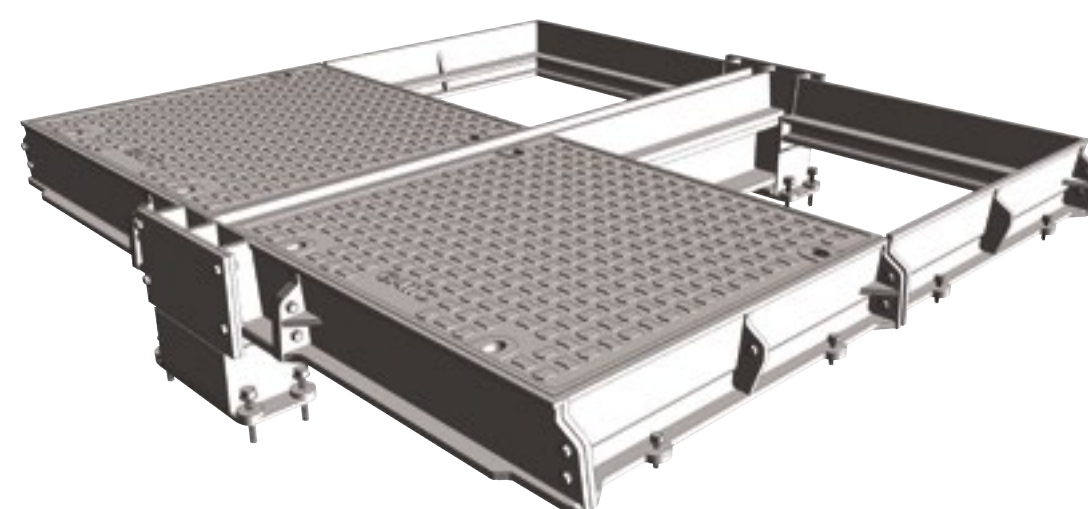
5 tonne slow moving wheel load, test load 250kN - Suitable for:

- Minor residential road
- Cul-de-sacs
- Pedestrian precincts
- Yards, etc



Solid top

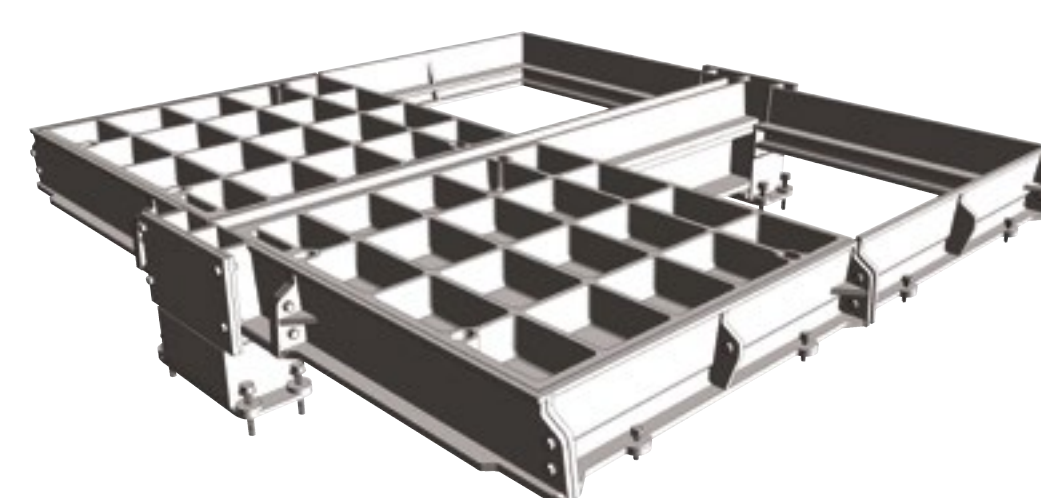
Solid top cover types are lighter in weight than recessed covers, and feature an anti-slip surface. Solid top covers are denoted by the code Type DLS and RSD depicted in section on the following pages.



Recessed for concrete infill

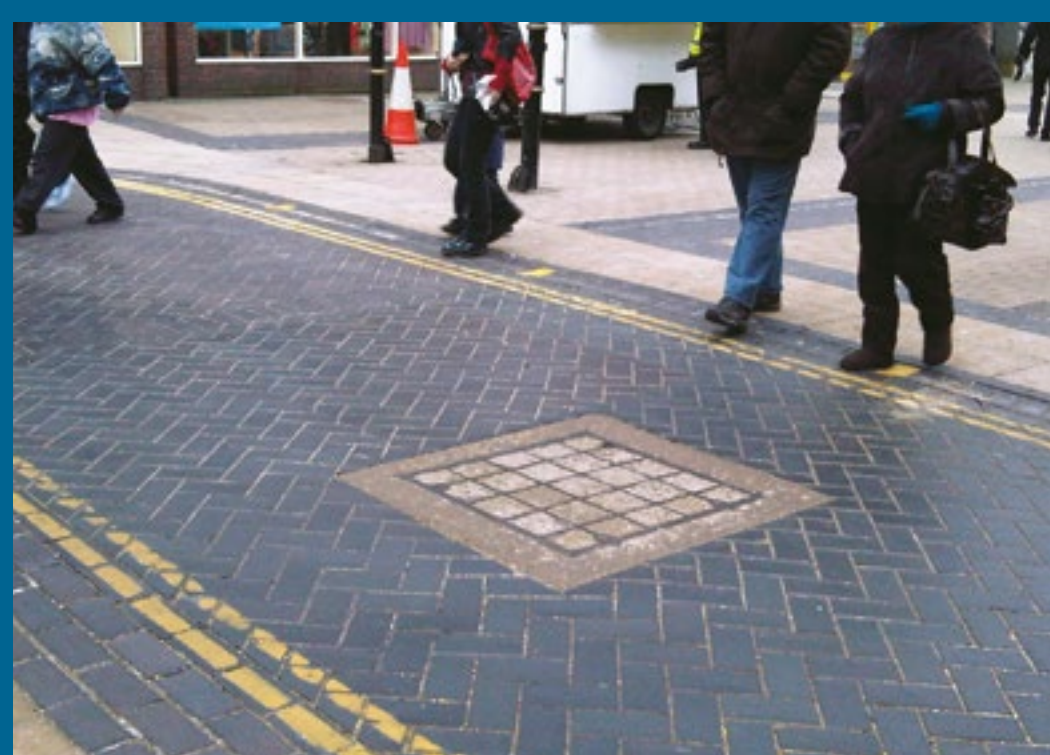
Recessed covers are available in a choice of designs designated by a 'Type' reference. C250 recessed covers are available as Type DLF, DM and DM/F. Section drawings of the different recessed cover types are shown on the following pages.

To prevent movement of covers in high traffic conditions, we recommend the use of a factory fitted vibration-resistant locking system. Can be fitted to recessed covers only.



Product Ranges

Single covers and frames



Duct covers and frames



Continuous trench covers and frames



Multispan covers and frames



Pave Infill



For Pave infill options for C250, please navigate to [Page 58](#)

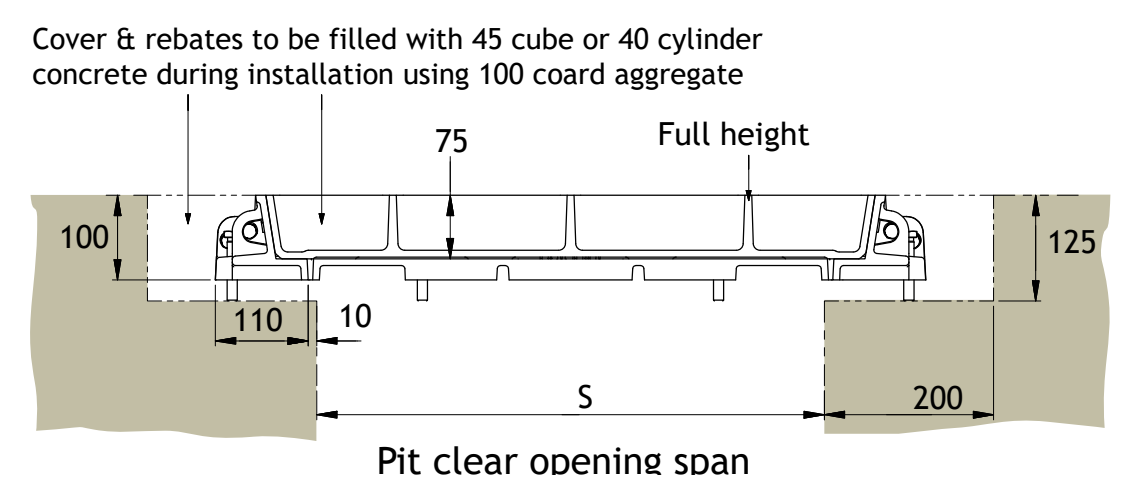
[Click Here](#)

Single Recessed Covers and Frames

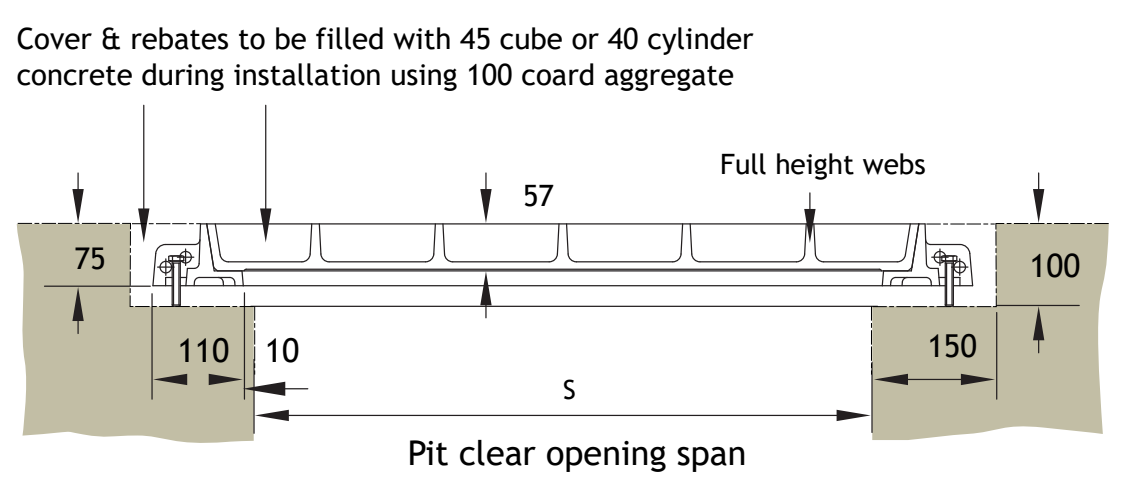


Pit clear opening sizes L x S	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
750 x 300	DLF	900 x 540 x 75	1050 x 600 x 100
600 x 450	RRF	750 x 690 x 100	900 x 750 x 125
750 x 450	RRF	900 x 670 x 100	1150 x 850 x 125
600 x 600	DLF	770 x 840 x 75	900 x 900 x 100
750 x 600	DLF	920 x 840 x 75	1050 x 900 x 100
900 x 600	DLF	1070 x 840 x 75	1200 x 900 x 100
600 x 750	DLF	770 x 990 x 75	900 x 1050 x 100
750 x 750	DLF	920 x 990 x 75	1050 x 1050 x 100
900 x 750	DLF	1070 x 990 x 75	1200 x 1050 x 100
600 x 900	DLF	770 x 1140 x 75	900 x 1200 x 100
750 x 900	DLF	920 x 1140 x 75	1050 x 1200 x 100
900 x 900	DLF	1120 x 1140 x 75	1200 x 1200 x 100
600 x 1050	RRD	750 x 1290 x 100	1000 x 1450 x 125
750 x 1050	RRD	900 x 1290 x 100	1150 x 1450 x 125
1000 x 1050	DM	1220 x 1270 x 140	1400 x 1450 x 165
600 x 1200	RRD	750 x 1440 x 100	1000 x 1600 x 125
750 x 1200	RRD	900 x 1440 x 100	1150 x 1600 x 125
600 x 1500	DM/F	820 x 1720 x 140	1000 x 1900 x 165
750 x 1500	DM/F	970 x 1720 x 140	1150 x 1900 x 165

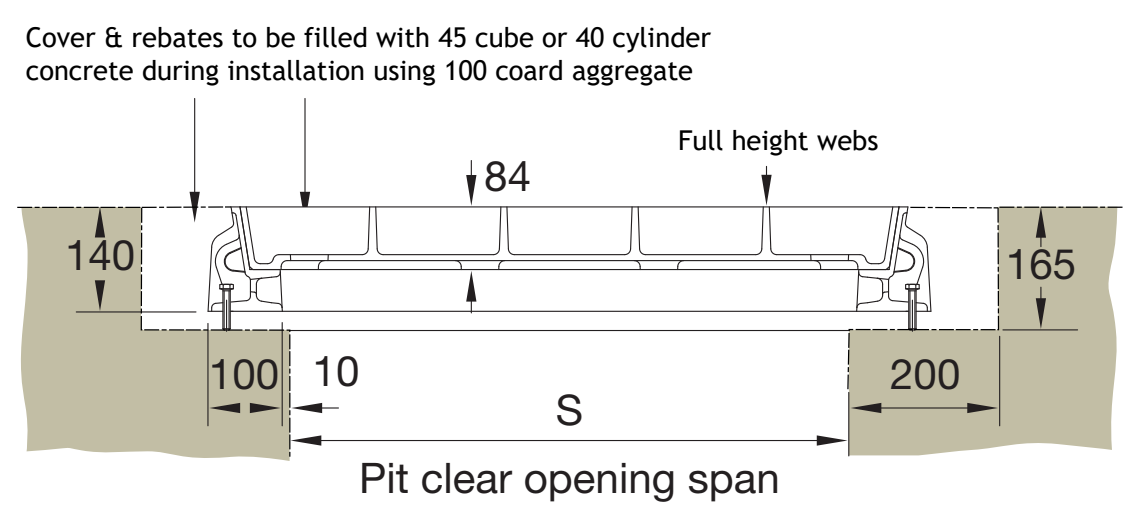
Technical Diagrams



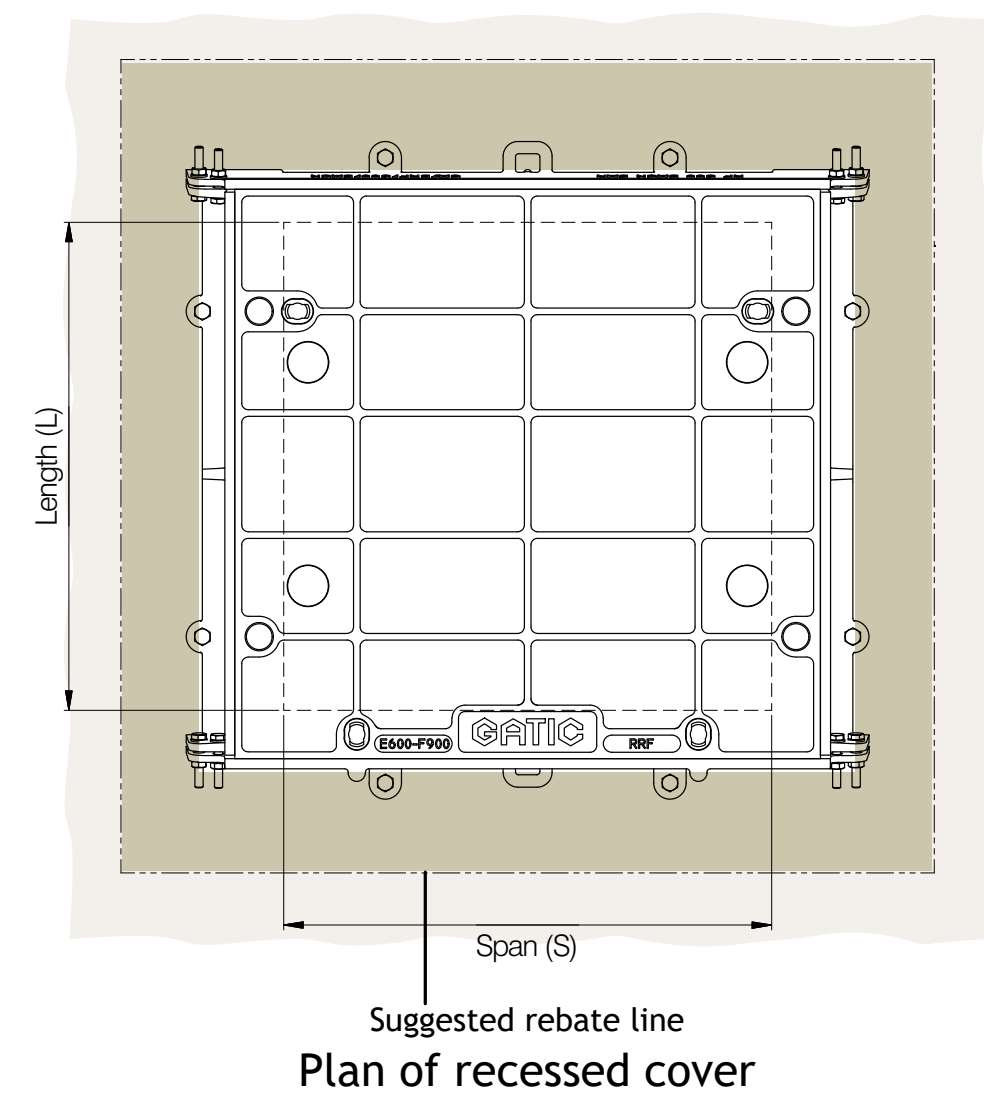
Type RRD / RRF



Type DLF



Type DM / DM/F

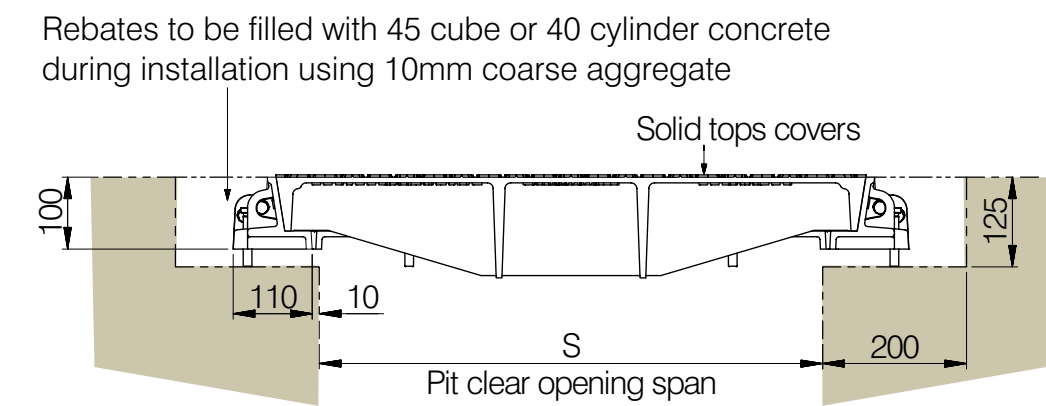


Single Solid Top Covers and Frames

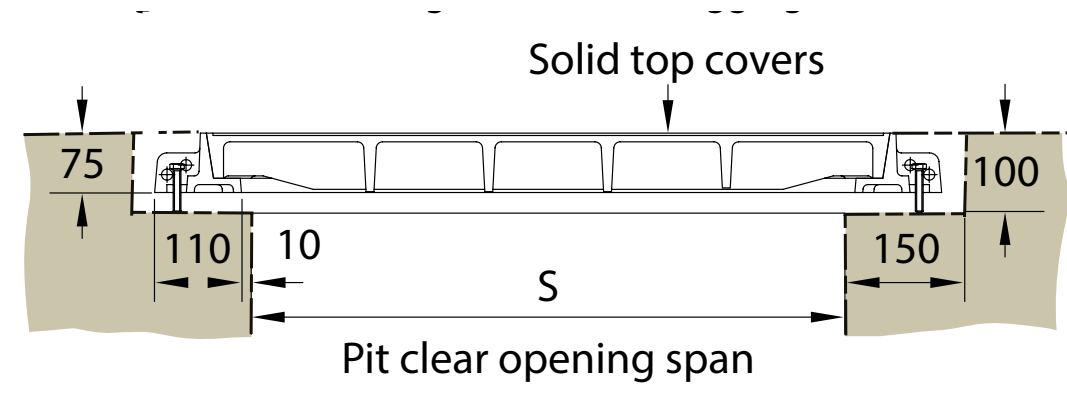


Pit clear opening sizes L x S	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
600 x 600	DLS	770 x 840 x 75	900 x 900 x 100
750 x 600	DLS	920 x 840 x 75	1050 x 900 x 100
900 x 600	DLS	1070 x 840 x 75	1200 x 900 x 100
700 x 700	DLS	850 x 940 x 100	1100 x 1100 x 125
600 x 750	DLS	770 x 990 x 75	900 x 1050 x 100
750 x 750	DLS	920 x 990 x 75	1050 x 1050 x 100
900 x 750	DLS	1070 x 990 x 75	1200 x 1050 x 100
600 x 900	DLS	770 x 1040 x 75	900 x 1200 x 100
750 x 900	DLS	920 x 1040 x 75	1050 x 1200 x 100
900 x 900	DLS	1120 x 1040 x 75	1200 x 1200 x 100
600 x 1200	RSD	750 x 1420 x 100	1000 x 1600 x 125
750 x 1200	RSD	900 x 1420 x 100	1150 x 1600 x 125
1000 x 1000	RSD	1220 x 1240 x 100	1400 x 1400 x 125

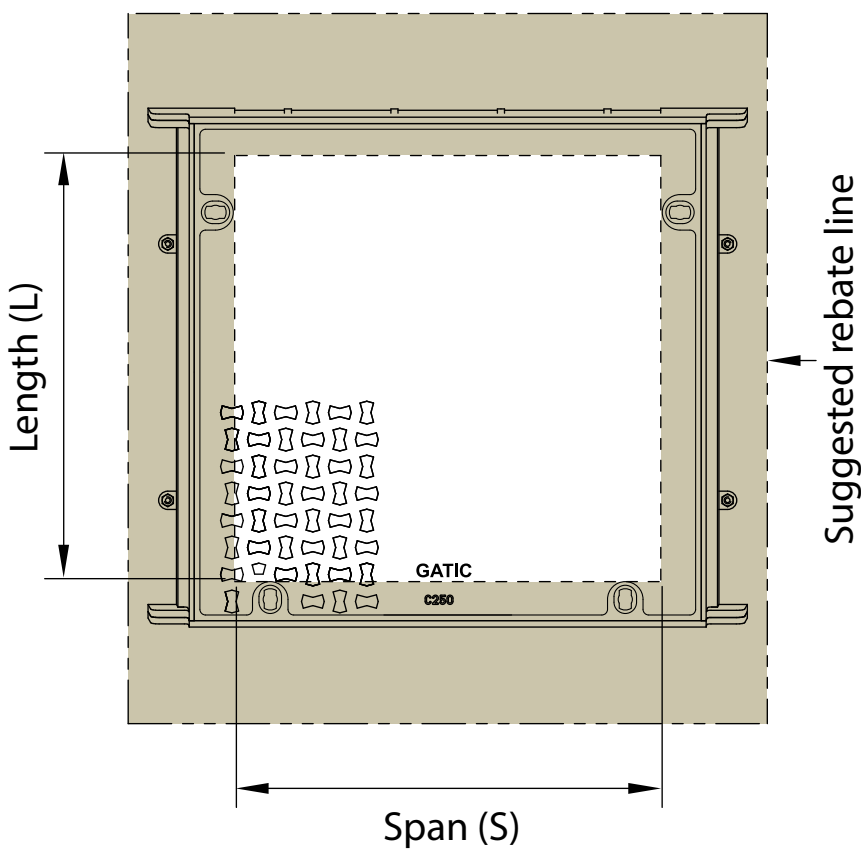
Technical Diagrams



Type RSD

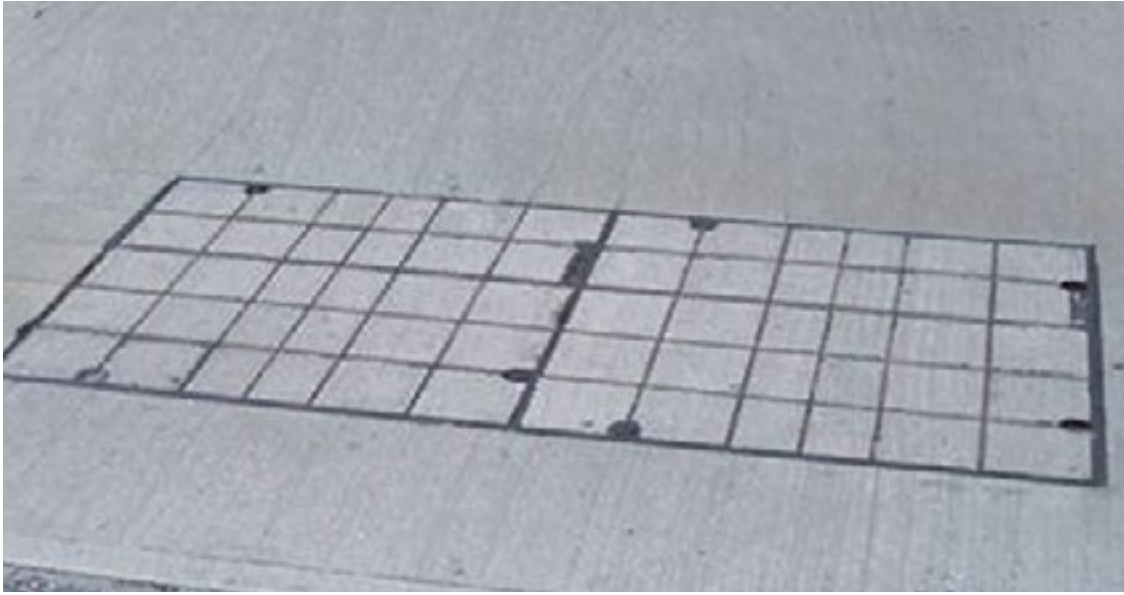


Type DLS



Plan of solid cover

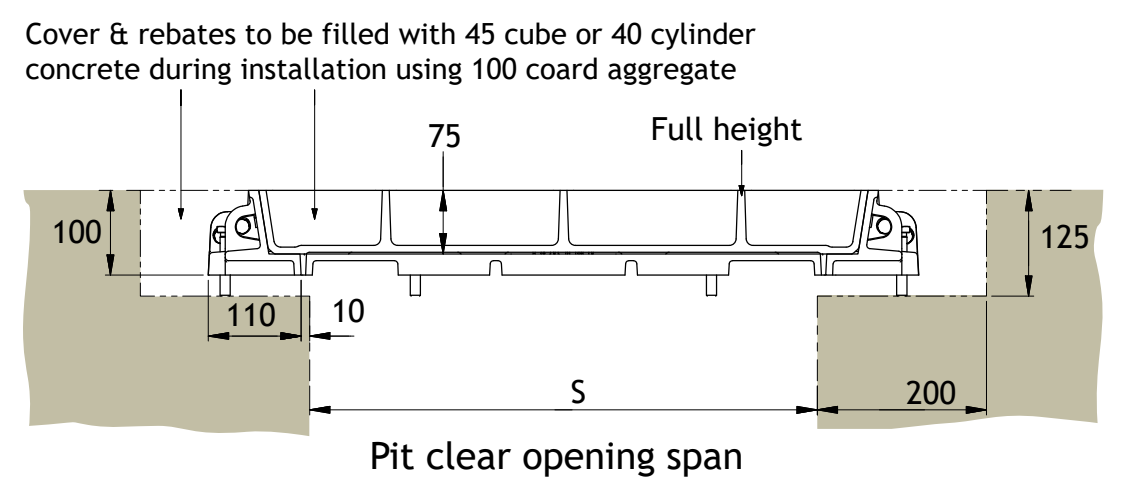
Duct Recessed Covers & Frames



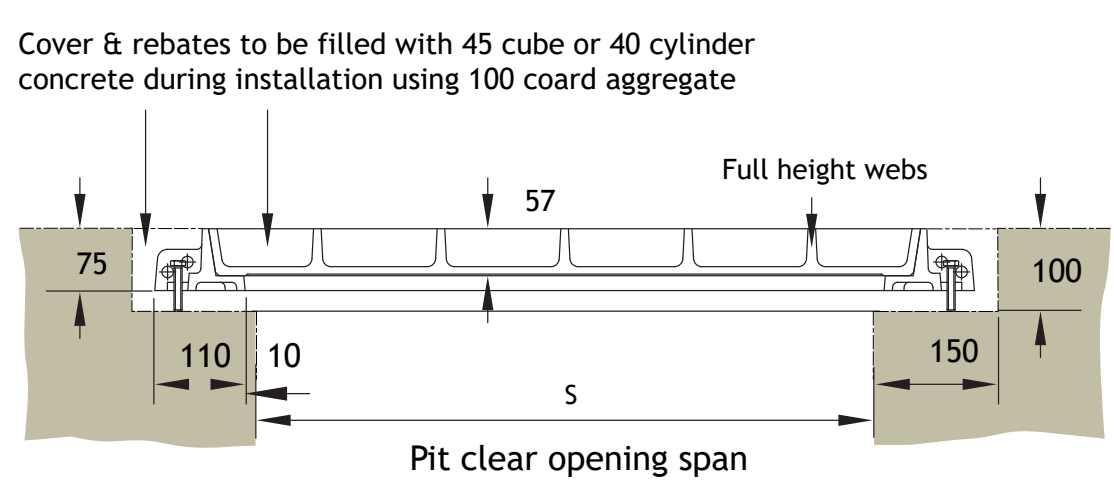
Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			1300	1450	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
300	DLF	(L + 300) x 600 x 100	*	*	2	*	*	*	*	*	3	*	*	*
450	RRF	(L + 400) x 850 x 125	2	2	2	*	*	3	3	3	3	*	4	*
600	DLF	(L + 300) x 900 x 100	2	2	2	2	2	3	3	3	3	3	4	3
750	DLF	(L + 300) x 1050 x 100	2	2	2	2	2	3	3	3	3	3	4	3
900	DLF	(L + 300) x 1200 x 100	2	2	2	2	2	3	3	3	3	3	4	3
1050	RRD	(L + 400) x 1450 x 125	2	2	2	*	*	3	3	3	3	*	4	*
1200	RRD	(L + 400) x 1600 x 125	2	2	2	*	*	3	3	3	3	*	4	*
1500	DM/F	(L + 400) x 1900 x 165	2	2	2	*	*	3	3	3	3	*	4	*

Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			2850	2900	3000	3150	3300	3400	3550	3700	3850	3900	4000	4150
300	DLF	(L + 300) x 600 x 100	*	*	*	*	4	*	*	*	*	*	*	5
450	RRF	(L + 400) x 850 x 125	4	*	4	4	4	5	5	5	5	*	5	5
600	DLF	(L + 300) x 900 x 100	4	3	4	4	4	5	5	5	5	4	5	5
750	DLF	(L + 300) x 1050 x 100	4	3	4	4	4	5	5	5	5	4	5	5
900	DLF	(L + 300) x 1200 x 100	4	3	4	4	4	5	5	5	5	4	5	5
1050	RRD	(L + 400) x 1450 x 125	4	*	4	4	4	5	5	5	5	*	5	5
1200	RRD	(L + 400) x 1600 x 125	4	*	4	4	4	5	5	5	5	*	5	5
1500	DM/F	(L + 400) x 1900 x 165	4	*	4	4	4	5	5	5	5	*	5	5

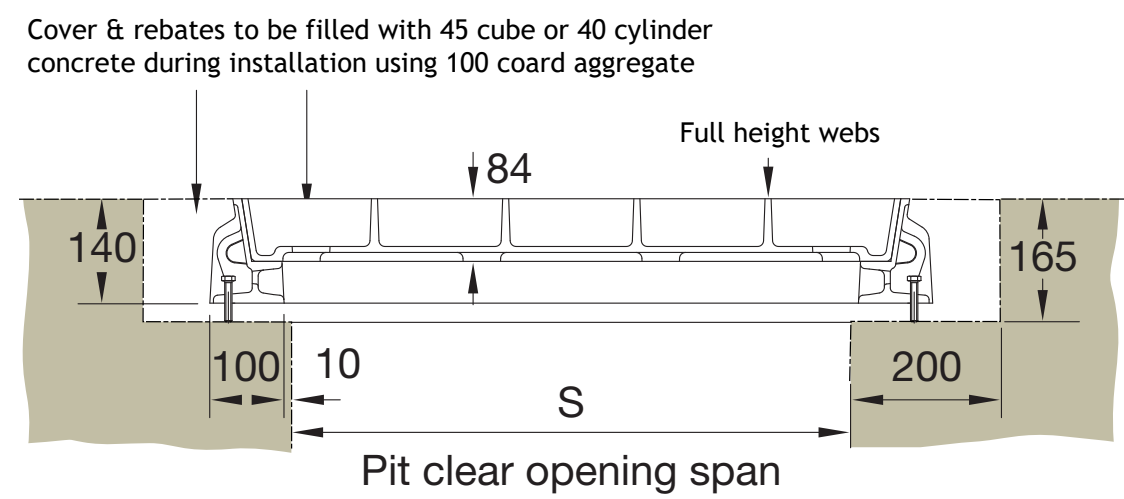
Technical Diagrams



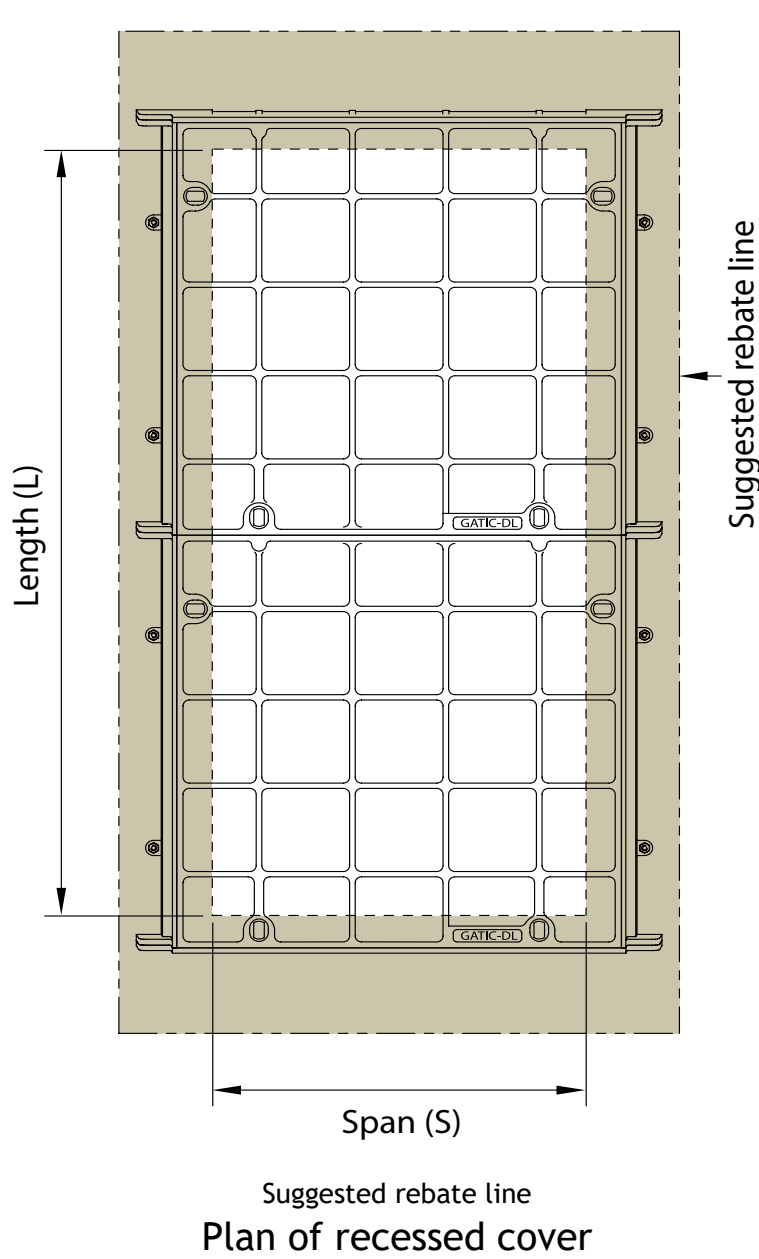
Type RRD/ RRF



Type DLF



Type DM / DM/F



Duct Solid Top Covers and Frames

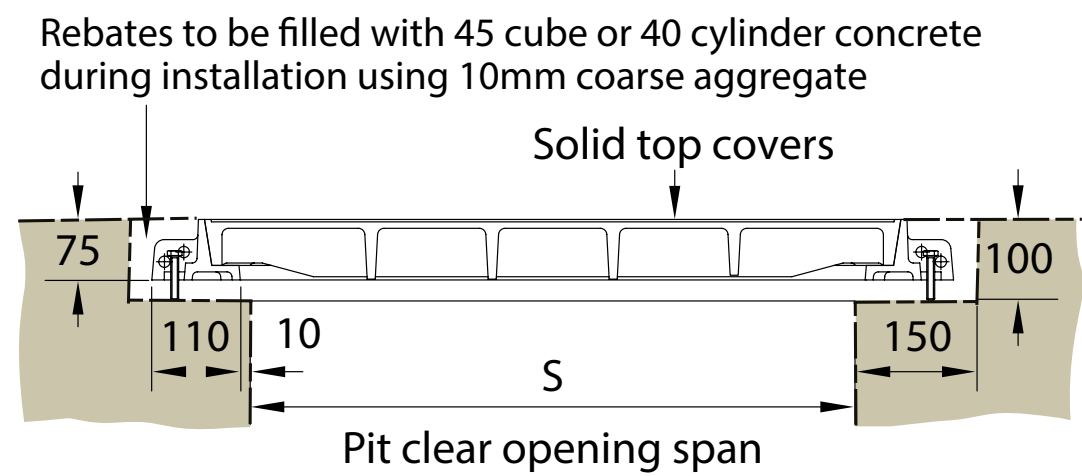


Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			1300	1450	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
600	DLS	(L + 300) x 900 x 100	2	2	2	2	2	3	3	3	3	3	4	3
750	DLS	(L + 300) x 1050 x 100	2	2	2	2	2	3	3	3	3	3	4	3
900	DLS	(L + 300) x 1200 x 100	2	2	2	2	2	3	3	3	3	3	4	3
1200	RSD	(L + 400) x 1600 x 125	2	2	2	*	*	3	3	3	3	*	4	*

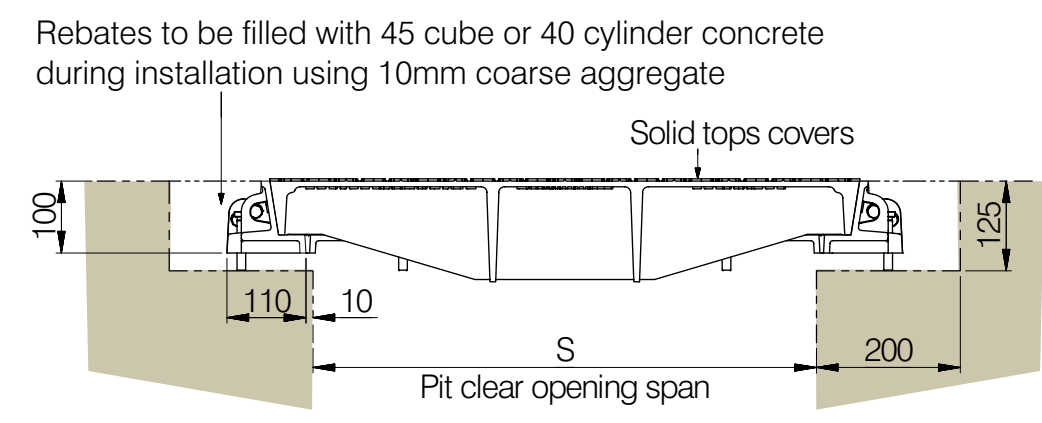
Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			2850	2900	3000	3150	3300	3400	3550	3700	3850	3900	4000	4150
600	DLS	(L + 300) x 900 x 100	4	3	4	4	4	5	5	5	5	4	5	5
750	DLS	(L + 300) x 1050 x 100	4	3	4	4	4	5	5	5	5	4	5	5
900	DLS	(L + 300) x 1200 x 100	4	3	4	4	4	5	5	5	5	4	5	5
1200	RSD	(L + 400) x 1600 x 125	4	*	4	4	4	5	5	5	5	*	5	5

* Indicates standard sizes not available The number shown indicates the quantity of cover parts Other standard sizes may be available, refer to our technical department

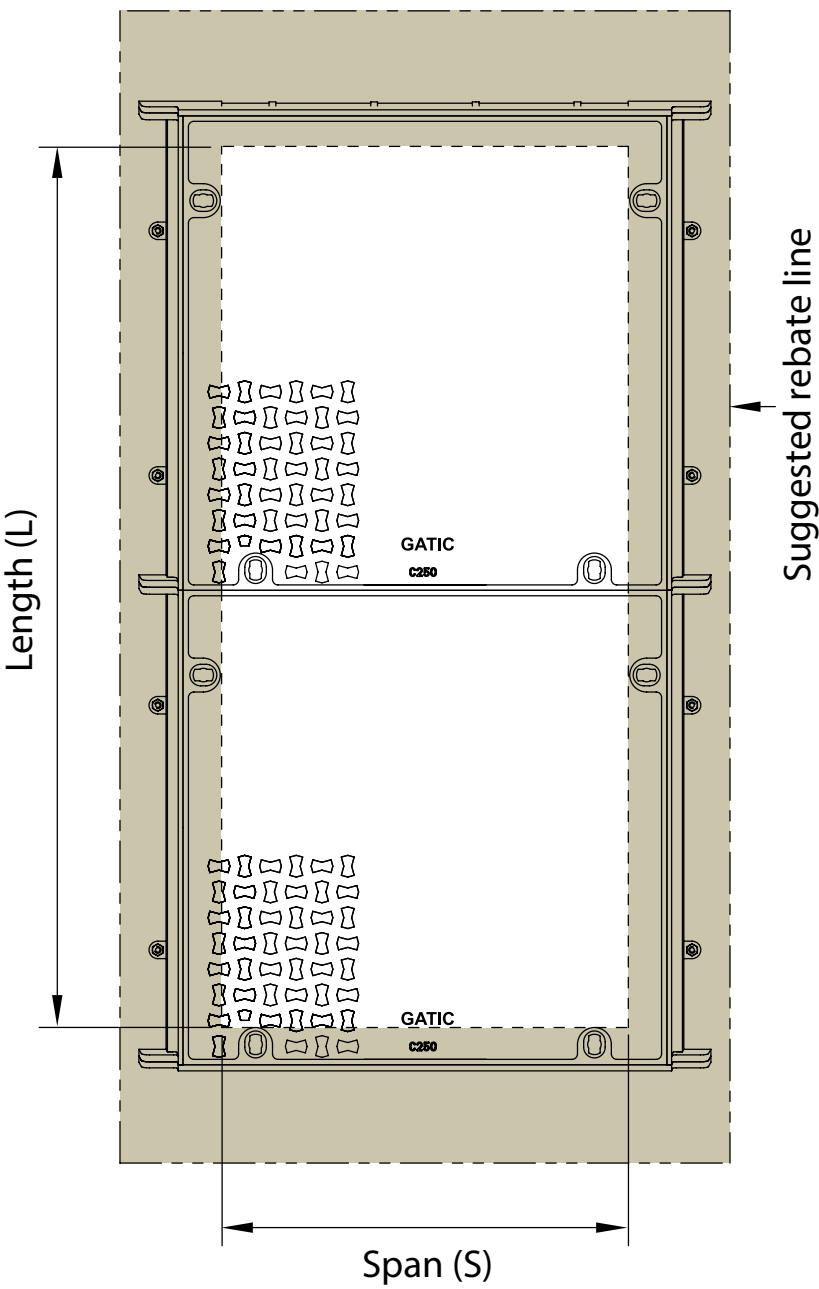
Technical Diagrams



Type DLS

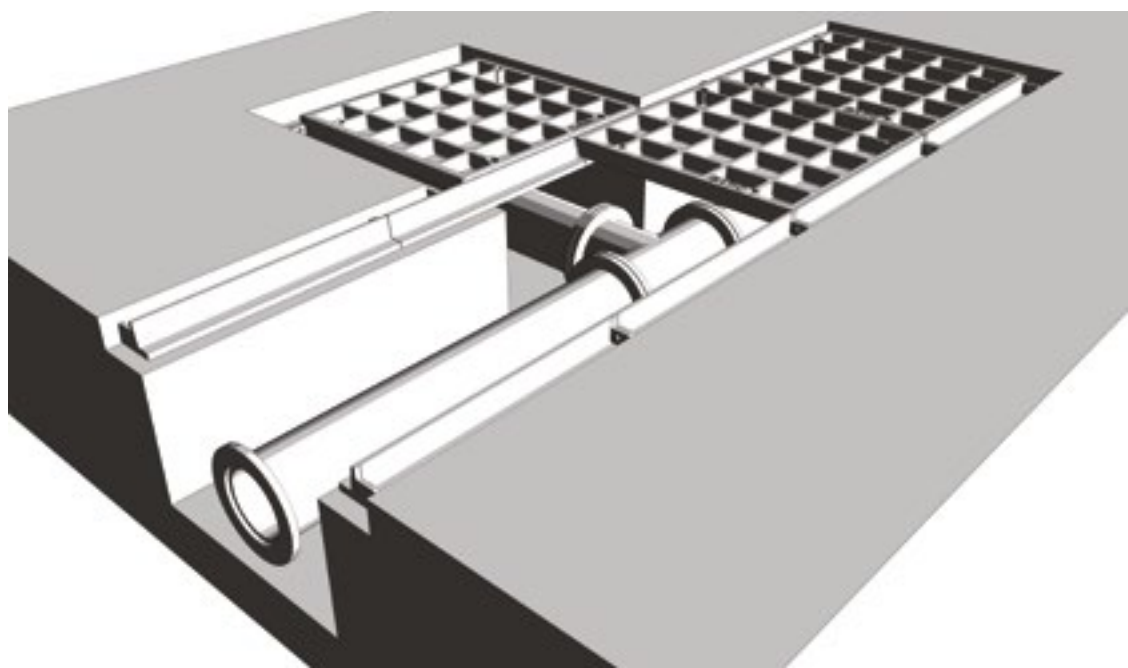


Type RSD



Plan of solid cover

Continuous Recessed Trench Cover and Frames



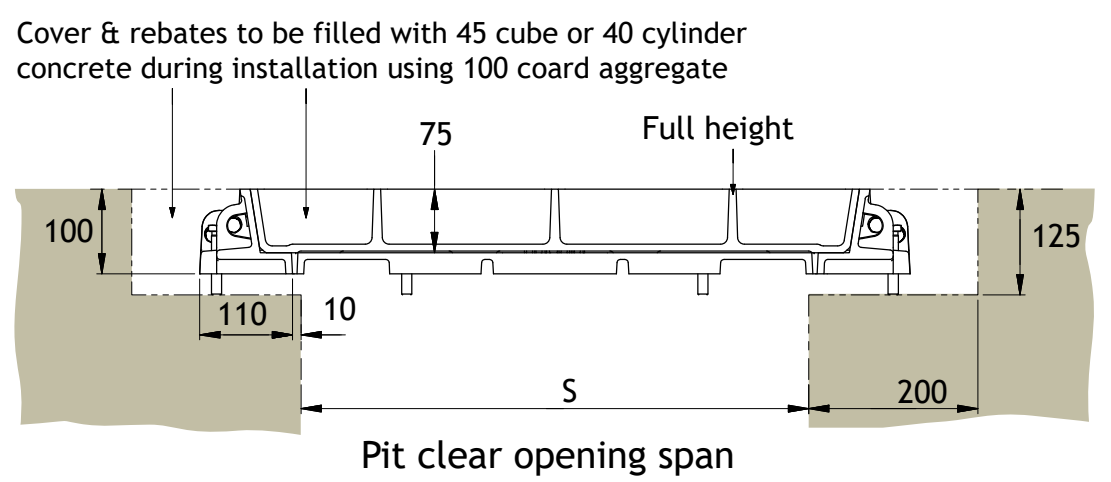
Pit clear opening span	Cover type
300	DLF
450	RRF
600	DLF
750	DLF
900	DLF
1050	DM
1050	RRD
1200	RRD
1500	DM/F

Gatic covers can be formed to make continuous trenches or layouts providing total access to services below.

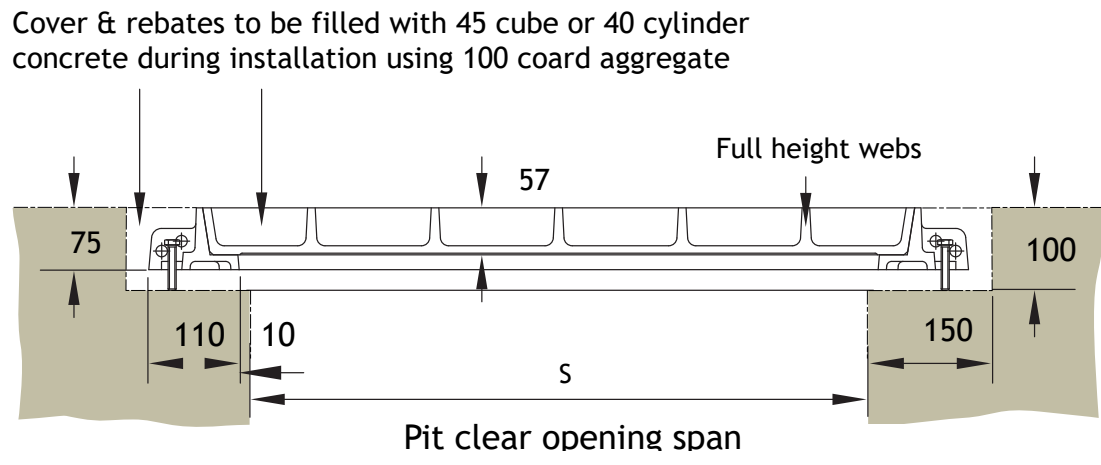
Construction drawings are required so that Gatic cover layout drawings can be prepared.

Note: type DM/F refer to our technical department

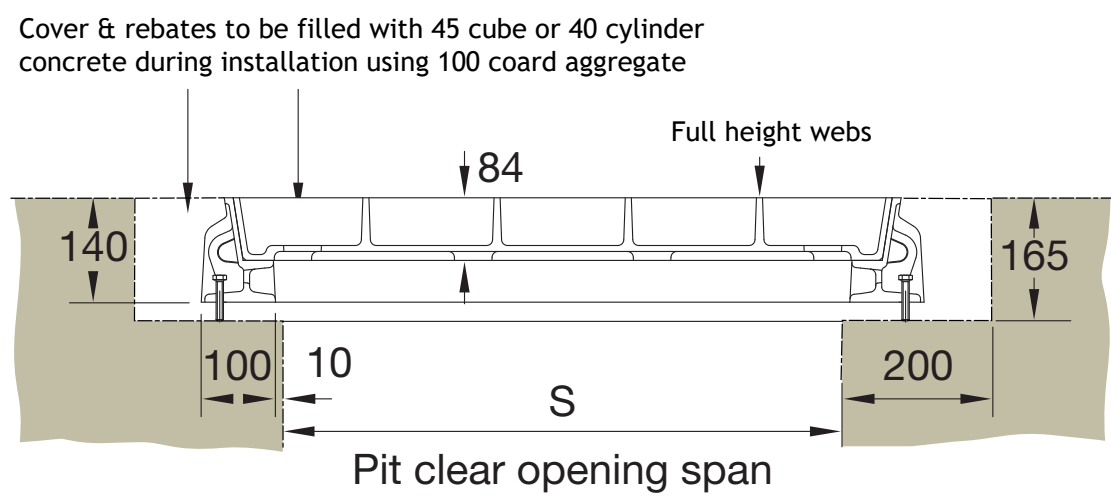
Technical Diagrams



Type RRD/ RRF

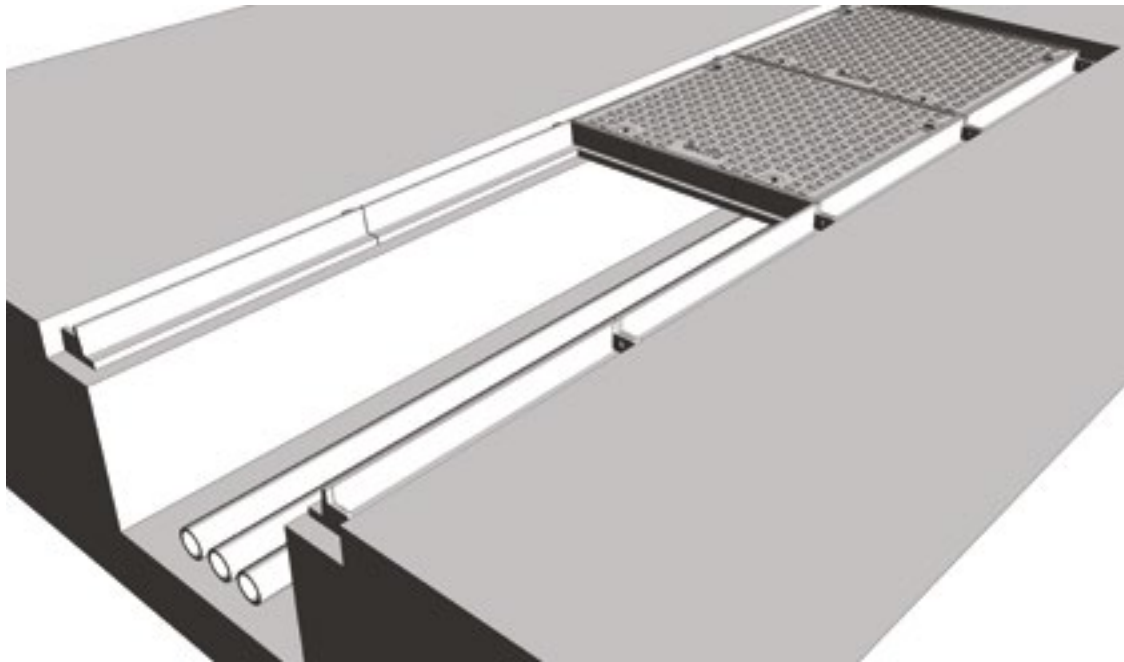


Type DLF



Type DM / DM/F

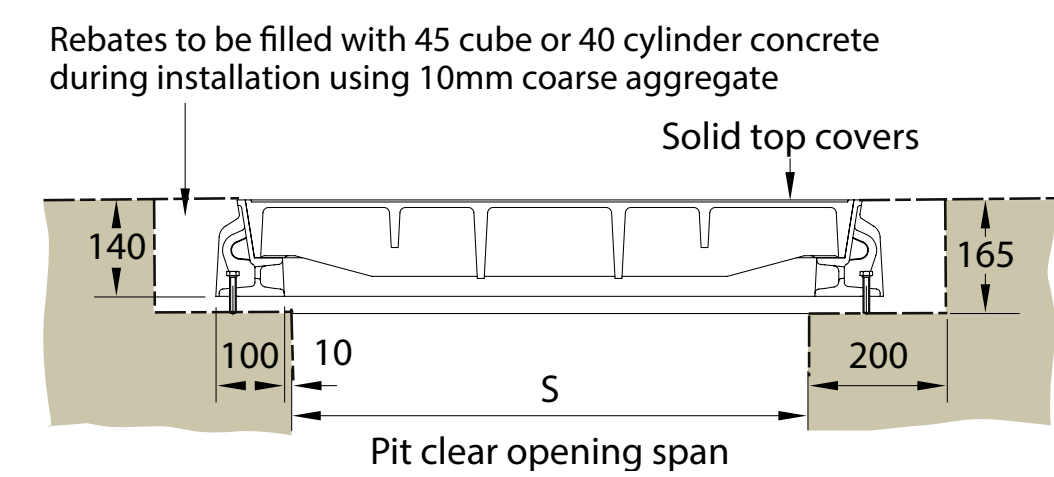
Continuous Solid Top Trench Cover and Frames



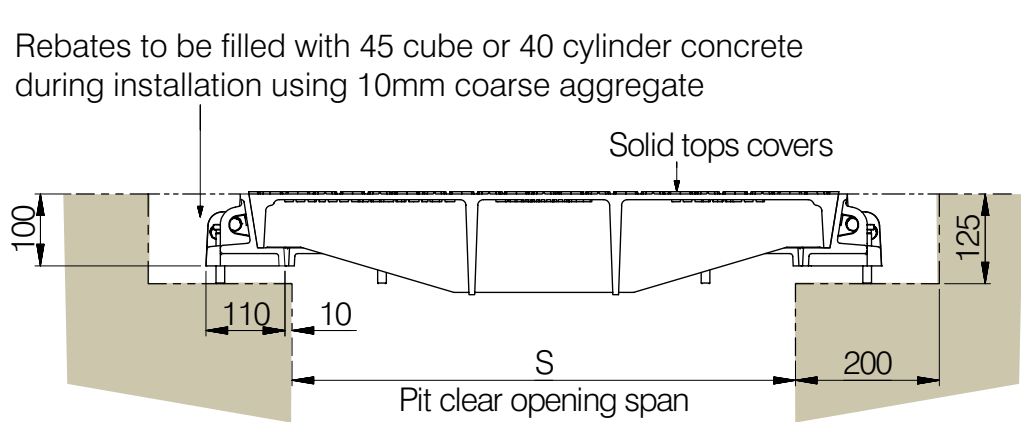
Pit clear opening span	Cover type
600	DLS
750	DLS
900	DLS
1000	RSD
1200	RSD

Standard solid top covers are supplied in straight runs. Junctions and splays can be achieved by the inclusion of localised recessed covers. Refer to our technical department for more information.

Technical Diagrams

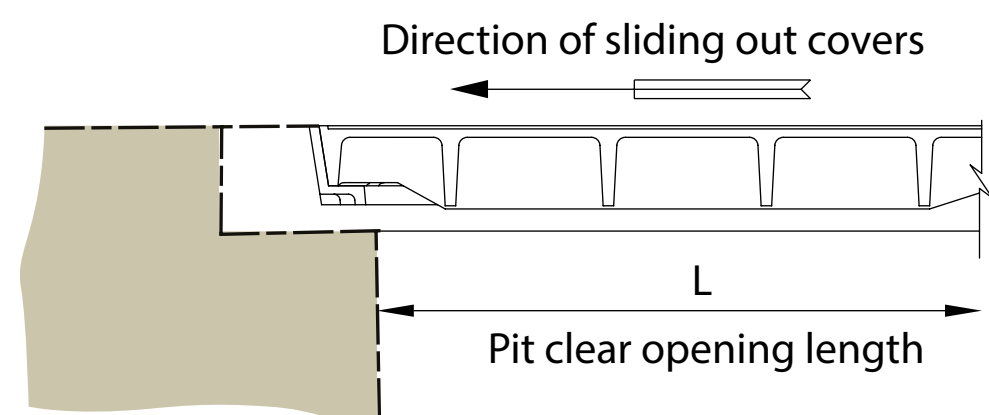


Type DLS

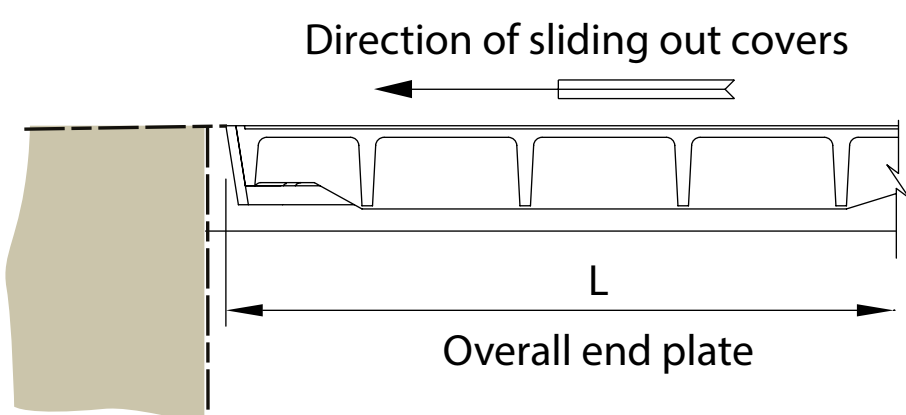


Type RSD

Rebates to filled with 45 cube or 40 cylinder concrete during installation using 10mm coarse aggregate



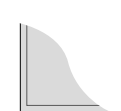
End terminations



Product Selection

Refer to the table to identify which cover and beam configuration you require against pit clear opening length (L) and pit clear opening span (S). All dimensions are in millimetres. Gatic can achieve sizes beyond the extent of those listed in the table - please speak to the Gatic technical team for further details.

		Pit clear opening span (S) mm																																											
		2 parts 1 beam					3 parts 2 beams					4 parts 3 beams					5 parts 4 beams																												
		1380	1530	1680	1830	1980	2160	2310	2460	2610	2760	2910	3060	2940	3090	3240	3390	3540	3690	3840	3990	4140	3720	3870	4020	4170	4320	4470	4620	4770	4920	5070	5220												
Pit clear opening length (L) mm	4 parts	1300						4 part (2x2) multispan cover with 1 removable support beam					1450						6 part (2x3) multispan cover with 2 removable support beam					1600						8 part (2x4) multispan cover with 3 removable support beam					1750						10 part (2x5) multispan cover with 4 removable support beam				
	3 parts	2000						6 part (3x2) multispan cover with 1 removable support beam					2150						9 part (3x3) multispan cover with 2 removable support beam					2300						12 part (3x4) multispan cover with 3 removable support beam					2450						15 part (3x5) multispan cover with 4 removable support beam				
	2 parts	2700						8 part (4x2) multispan cover with 1 removable support beam					2850						12 part (4x3) multispan cover with 2 removable support beam					3000						16 part (4x4) multispan cover with 3 removable support beam					3150						20 part (4x5) multispan cover with 4 removable support beam				
	3300						8 part (4x2) multispan cover with 1 removable support beam					3450						12 part (4x3) multispan cover with 2 removable support beam					3600						16 part (4x4) multispan cover with 3 removable support beam					3750						20 part (4x5) multispan cover with 4 removable support beam					
	3900						8 part (4x2) multispan cover with 1 removable support beam					4050						12 part (4x3) multispan cover with 2 removable support beam					4200						16 part (4x4) multispan cover with 3 removable support beam					4350						20 part (4x5) multispan cover with 4 removable support beam					
Beam centres mm		A	690	840	840	990	990	B	690	690	840	840	990	990	C	690	780	780	840	840	990	990	D	690	780	780	840	840	990	990	E	690	780	780	840	840	990	990							



Inset lines denote pit opening

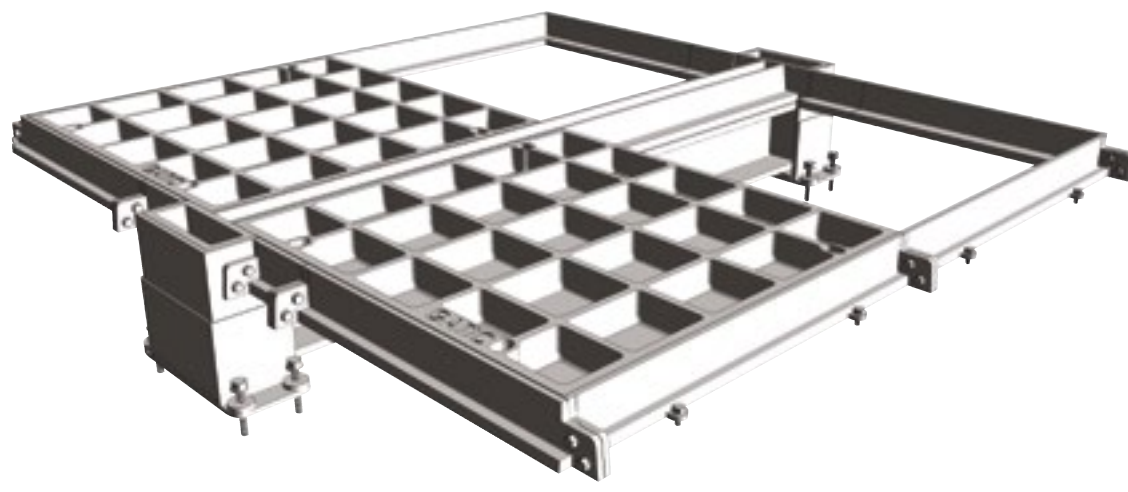


Cover

 Beam

L = Pit clear opening length

S = Pit clear opening span



Type DLF recessed



Type DLS solid top

Beam Size

The required beam size for Multispan covers is dependent on the pit clear opening length and the loading group.

The table shows maximum beam length against beam size. The removable support beams are supplied by Gatic.

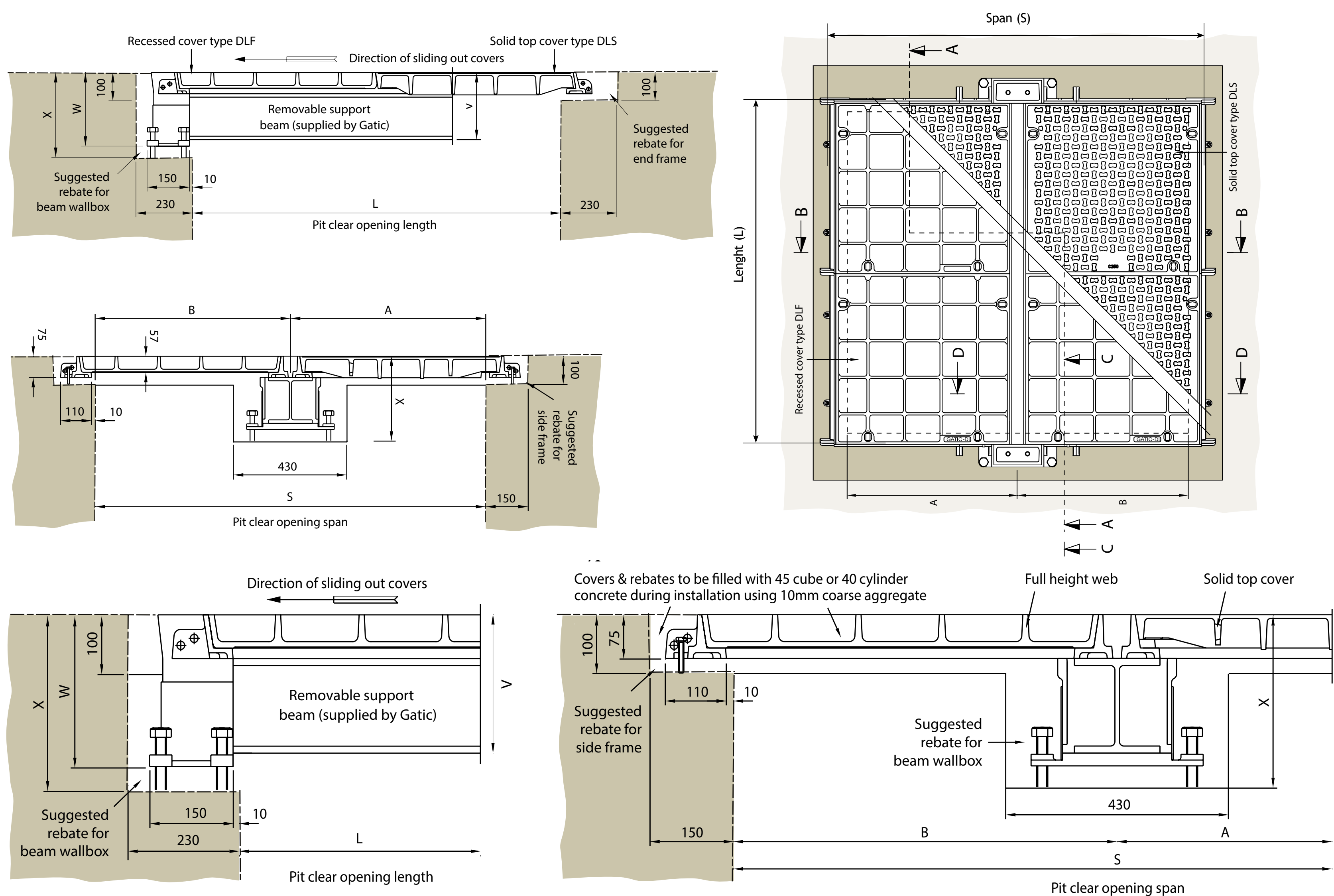
The table also indicates dimensions of the beam wallbox and rebate to suit different beam sizes. See also the accompanying section details.

Support beam size chart

Removable support beam size	Max pit clear opening length (L)	Beam wallbox dimensions			
		V	W	X	Y
152 x 152 x 37 kg/m U.C	2450	237	259	300	230
203 x 203 x 52 kg/m U.C.	3150	281	303	345	230
305 x 165 x 54 kg/m U.B	3750	385	407	450	230
356 x 171 x 67 kg/m U.B	3900	438	460	505	230

Note: Removable support beams are supplied by Gatic

Technical Diagrams



B125

Footways, pedestrian areas, car parks, driveways and internal floors



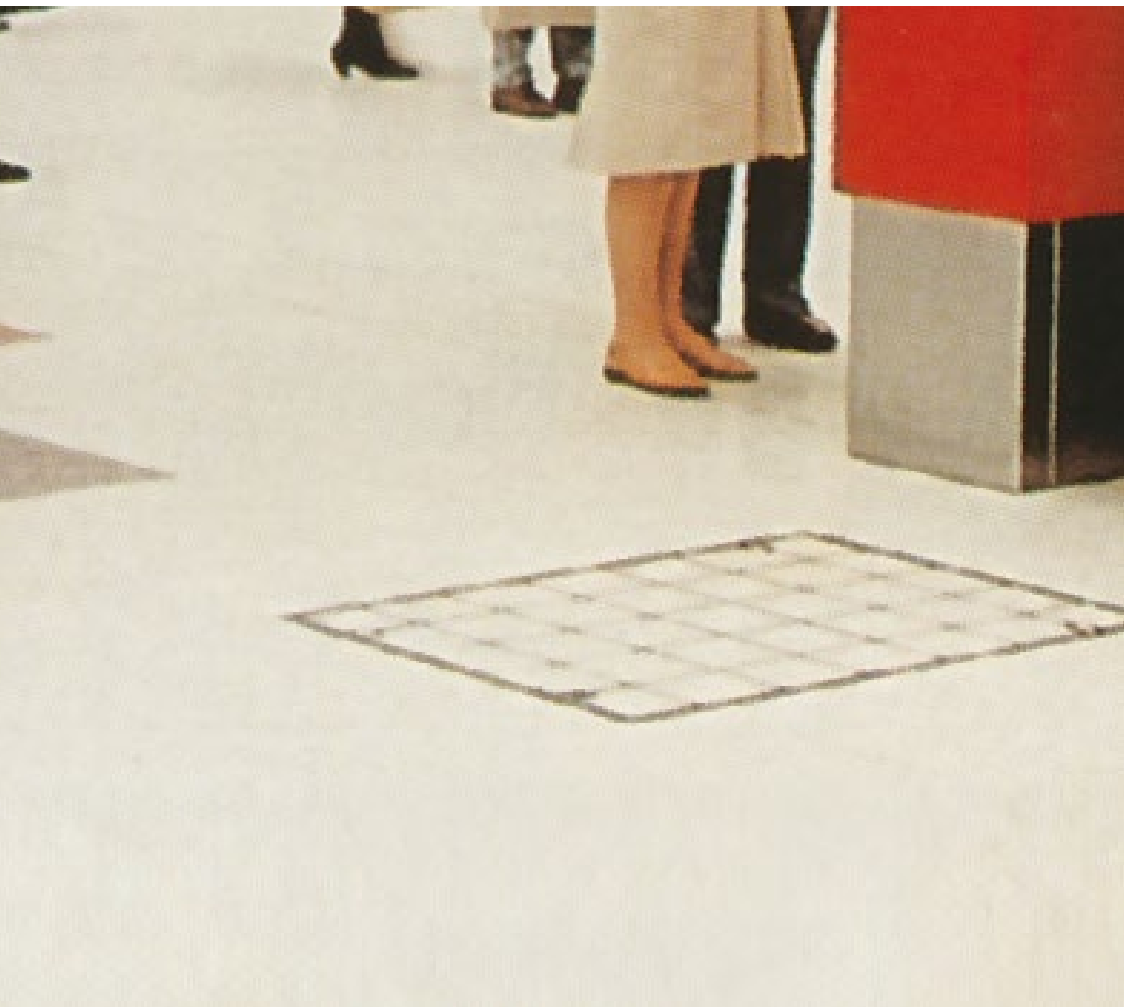
Introduction

Footways, pedestrian areas, car parks, driveways and internal floors

3 tonne wheel load, test load 125kN - Suitable for:

- Footways
- Pedestrian areas
- Car parks
- Driveways
- Internal floors

B125 assemblies are available with a choice of cover designs - recessed or solid top.



Solid top

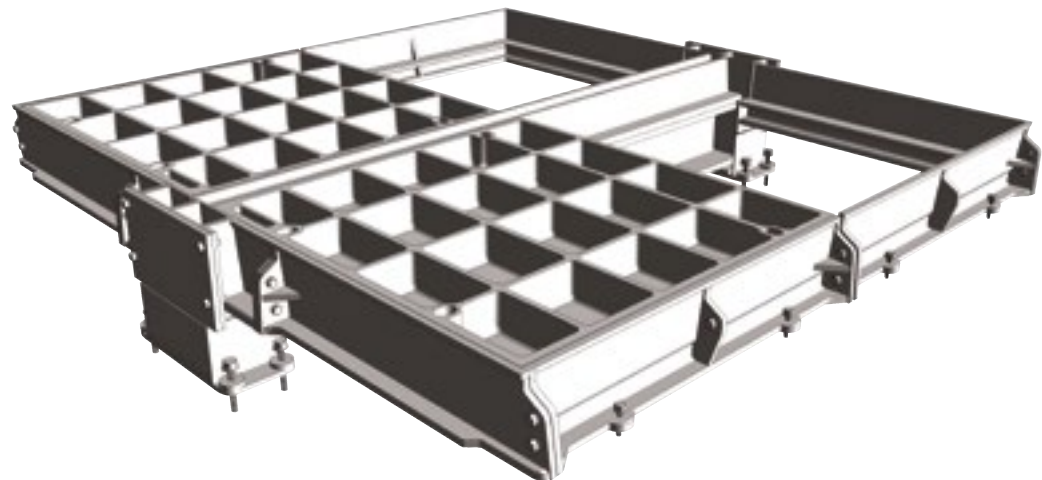
Solid top cover types are lighter in weight than recessed covers, and feature an anti-slip surface. Solid top covers are denoted by the code Type DLS and RSD depicted in section on the following pages.



Recessed for concrete infill

Recessed covers are available in a choice of designs designated by a 'Type' reference. B125 recessed covers are available as Type DL, DLF and DM/F. Section drawings of the different recessed cover types are shown on the following pages.

To prevent movement of covers in high traffic conditions, we recommend the use of a factory fitted vibration-resistant locking system. Can be fitted to recessed covers only.



Product Ranges

Single covers and frames



Duct covers and frames



Continuous trench covers and frames



Multispan covers and frames

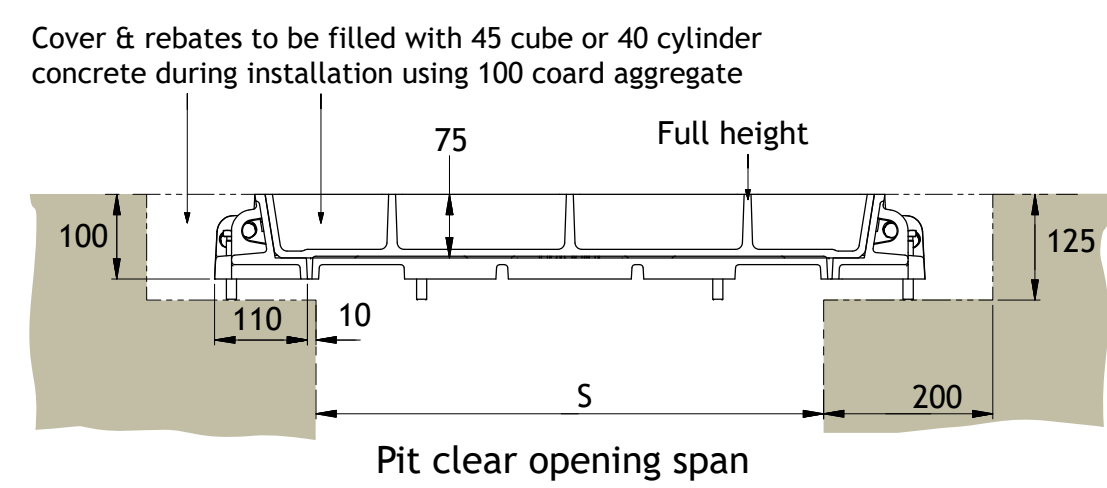


Single Recessed Covers and Frames

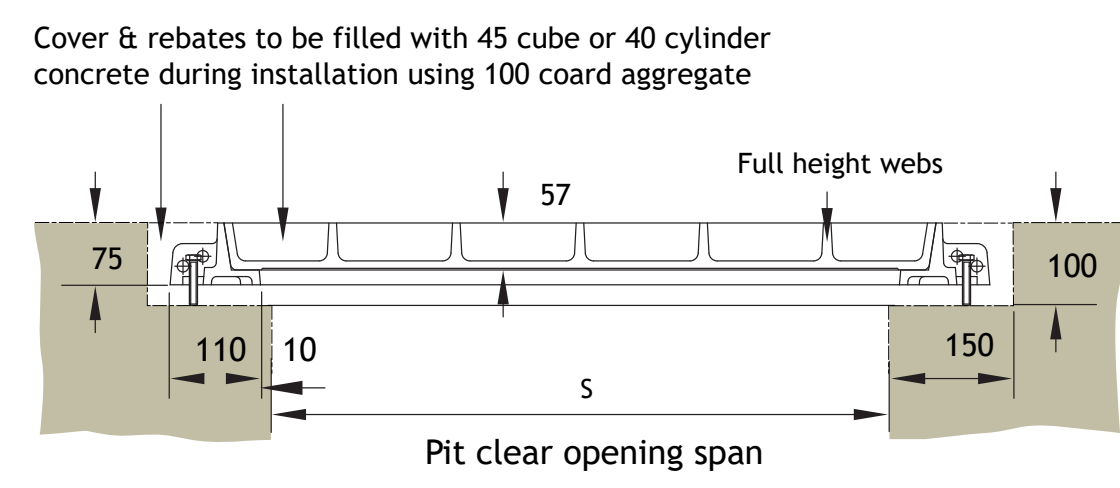


Pit clear opening sizes	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
750 x 300	DLF	900 x 540 x 75	1050 x 600 x 100
600 x 450	RRF	750 x 690 x 100	1000 x 850 x 125
750 x 450	RRF	900 x 690 x 100	1150 x 850 x 125
600 x 600	DLF	770 x 840 x 75	900 x 900 x 100
750 x 600	DLF	920 x 840 x 75	1050 x 900 x 100
900 x 600	DLF	1070 x 840 x 75	1200 x 900 x 100
600 x 750	DLF	770 x 990 x 75	900 x 1050 x 100
750 x 750	DLF	920 x 990 x 75	1050 x 1050 x 100
900 x 750	DLF	1070 x 990 x 75	1200 x 1050 x 100
600 x 900	DLF	770 x 1140 x 75	900 x 1200 x 100
750 x 900	DLF	920 x 1140 x 75	1050 x 1200 x 100
900 x 900	DLF	1120 x 1140 x 75	1200 x 1200 x 100
600 x 1050	RRD	750 x 1290 x 100	1000 x 1350 x 125
750 x 1050	RRD	900 x 1290 x 100	1150 x 1350 x 125
1000 x 1050	DM	1220 x 1270 x 140	1400 x 1450 x 165
600 x 1200	RRD	750 x 1440 x 100	1000 x 1600 x 125
750 x 1200	RRD	900 x 1440 x 100	1150 x 1600 x 125
600 x 1500	DM/F	820 x 1720 x 140	1000 x 1900 x 165
750 x 1500	DM/F	970 x 1720 x 140	1150 x 1900 x 165

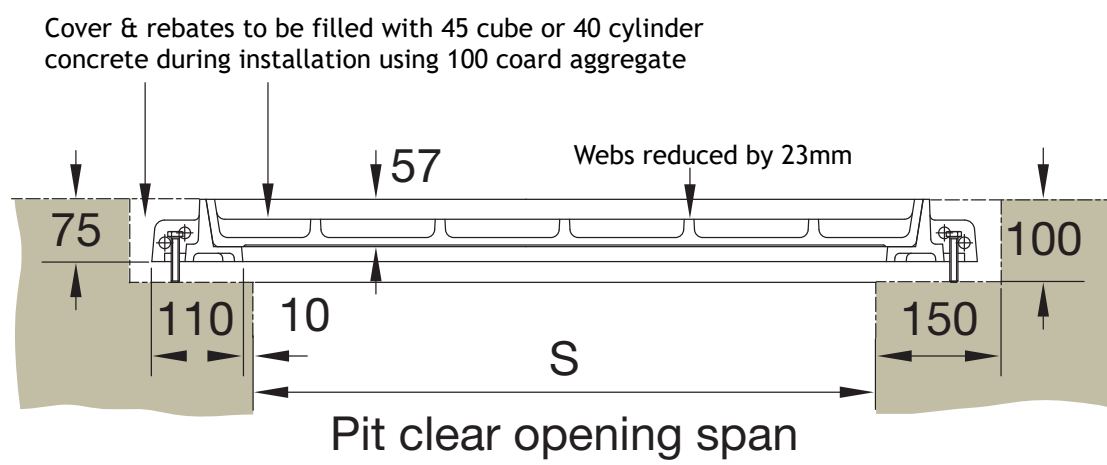
Technical Diagrams



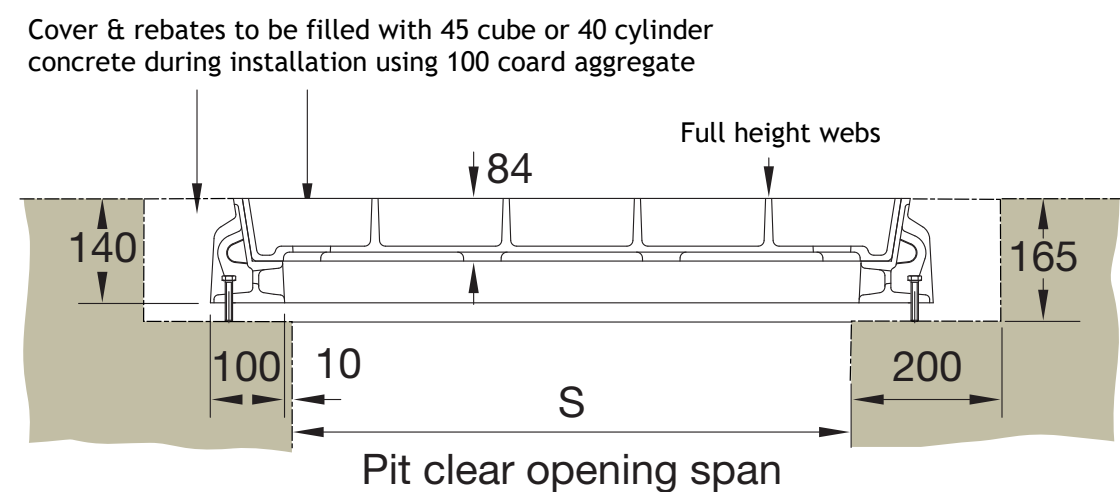
Type RRF



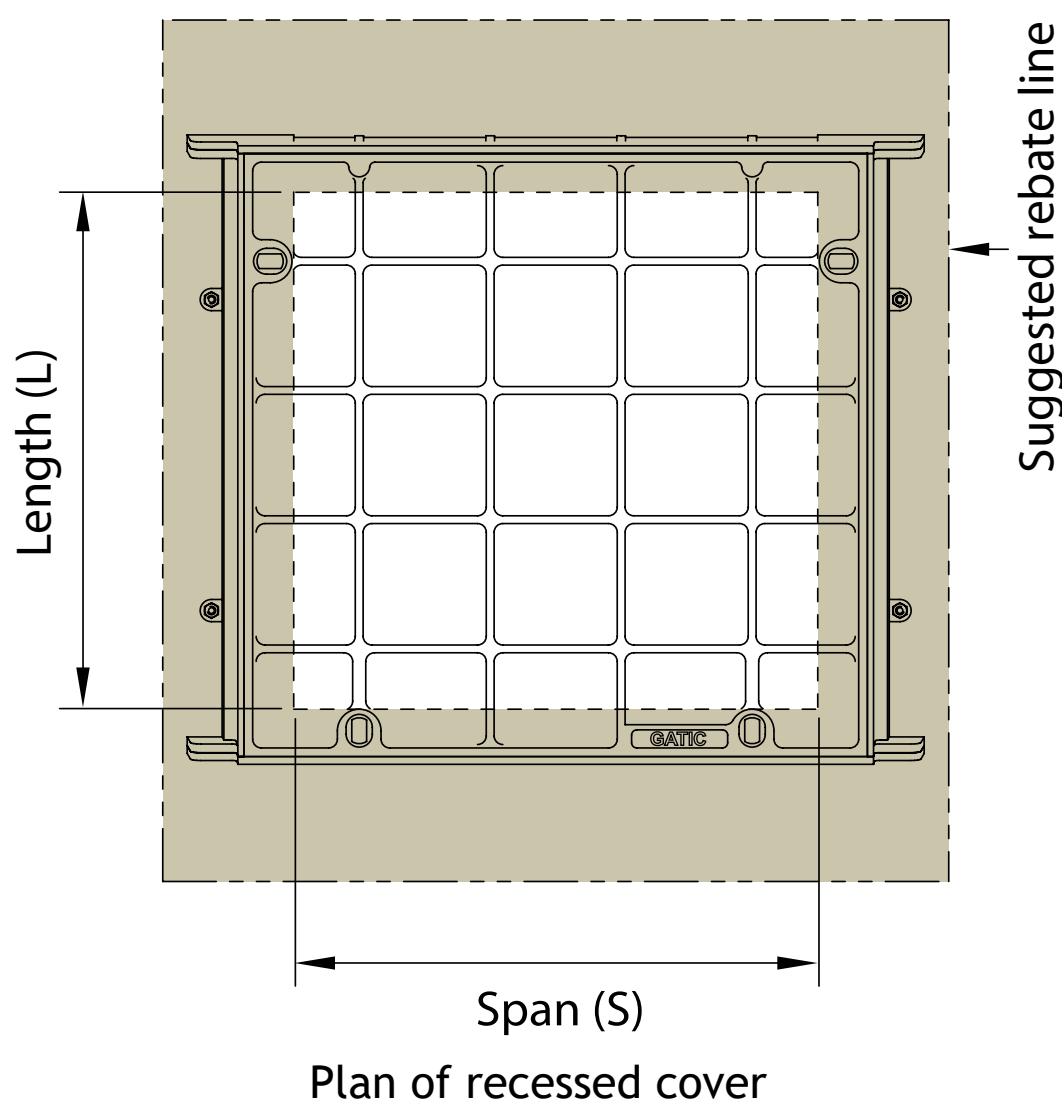
Type DLF



Type DL



Type DM / DM/F

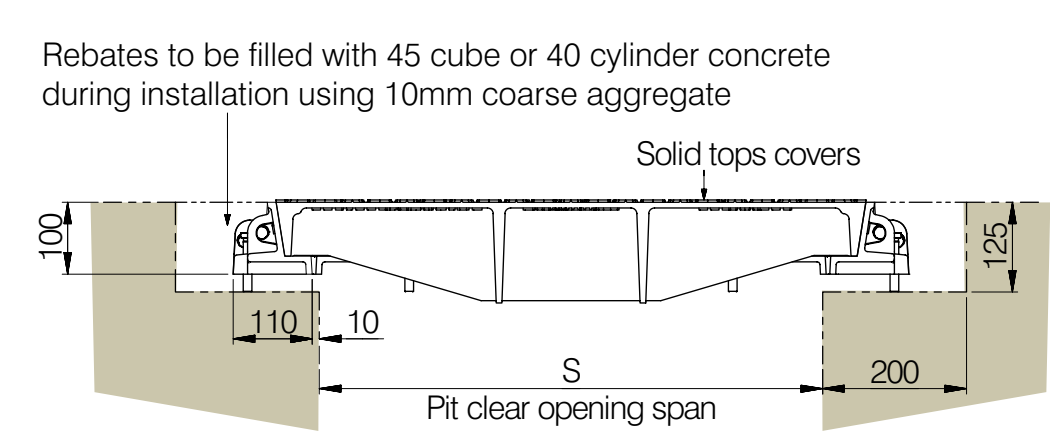


Single Solid Top Covers and Frames

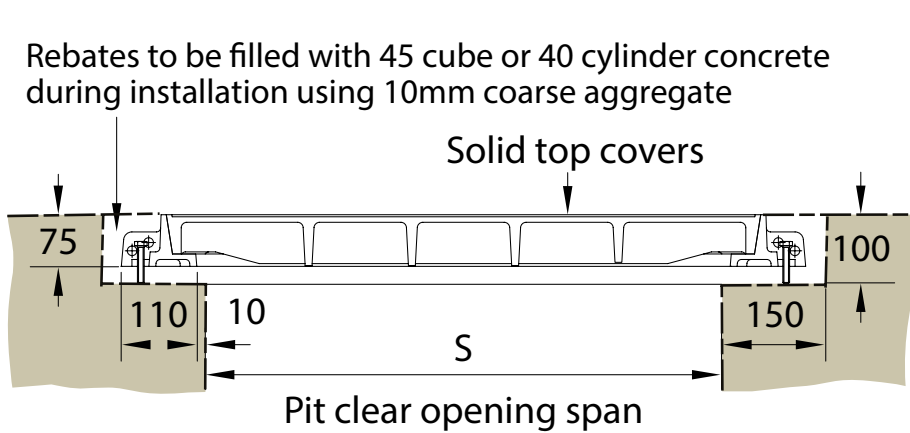


Pit clear opening sizes	Cover type	Overall frame size length x width x depth	Suggested rebate size length x width x depth
600 x 600	DLS	770 x 840 x 75	900 x 900 x 100
750 x 600	DLS	920 x 840 x 75	1050 x 900 x 100
900 x 600	DLS	1070 x 840 x 75	1200 x 900 x 100
700 x 700	DLS	850 x 940 x 100	1100 x 1100 x 125
600 x 750	DLS	770 x 990 x 75	900 x 1050 x 100
750 x 750	DLS	920 x 990 x 75	1050 x 1050 x 100
900 x 750	DLS	1070 x 990 x 75	1200 x 1050 x 100
600 x 900	DLS	770 x 1040 x 75	900 x 1200 x 100
750 x 900	DLS	920 x 1040 x 75	1050 x 1200 x 100
900 x 900	DLS	1120 x 1140 x 75	1200 x 1200 x 100
1000 x 1000	RSD	1220 x 1240 x 100	1400 x 1400 x 125
600 x 1200	RSD	750 x 1420 x 100	1000 x 1600 x 125
750 x 1200	RSD	900 x 1420 x 100	1150 x 1600 x 125

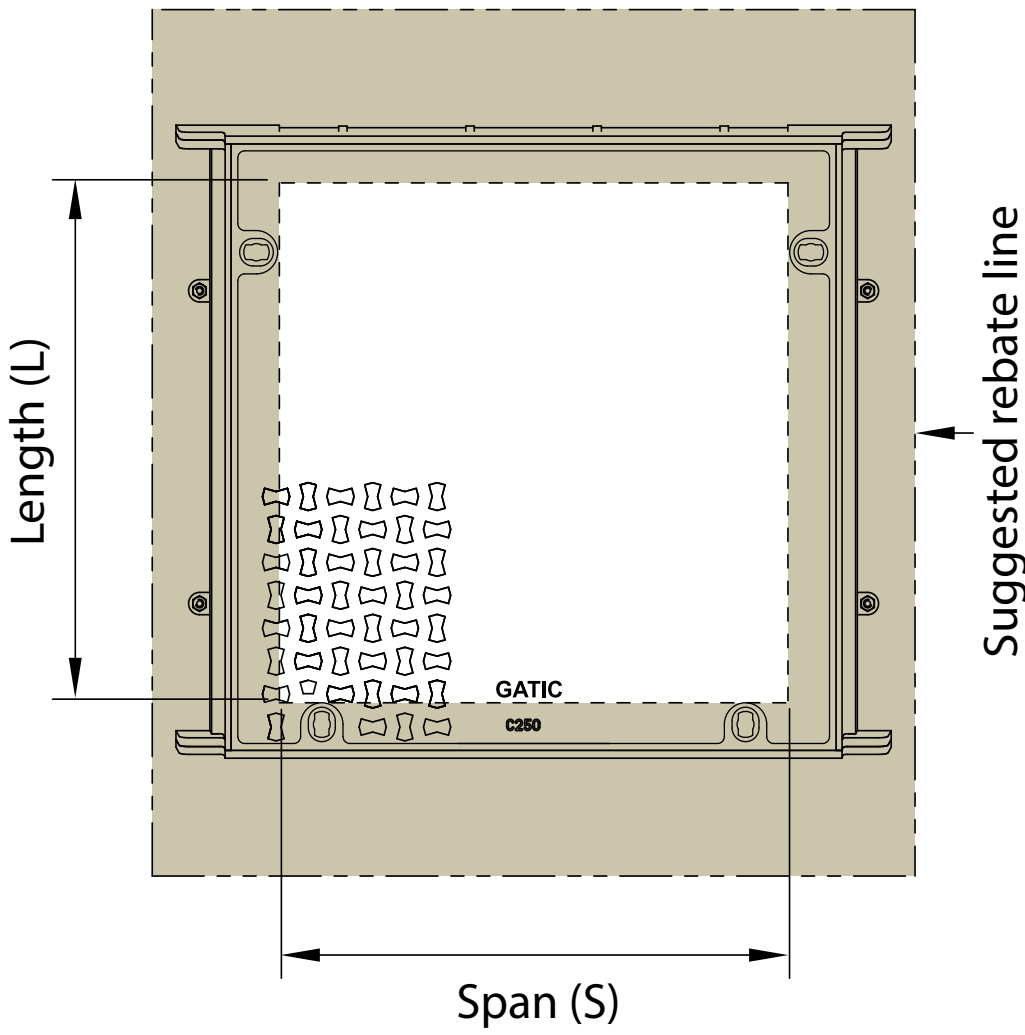
Technical Diagrams



Type RSD



Type DLS



Plan of solid cover

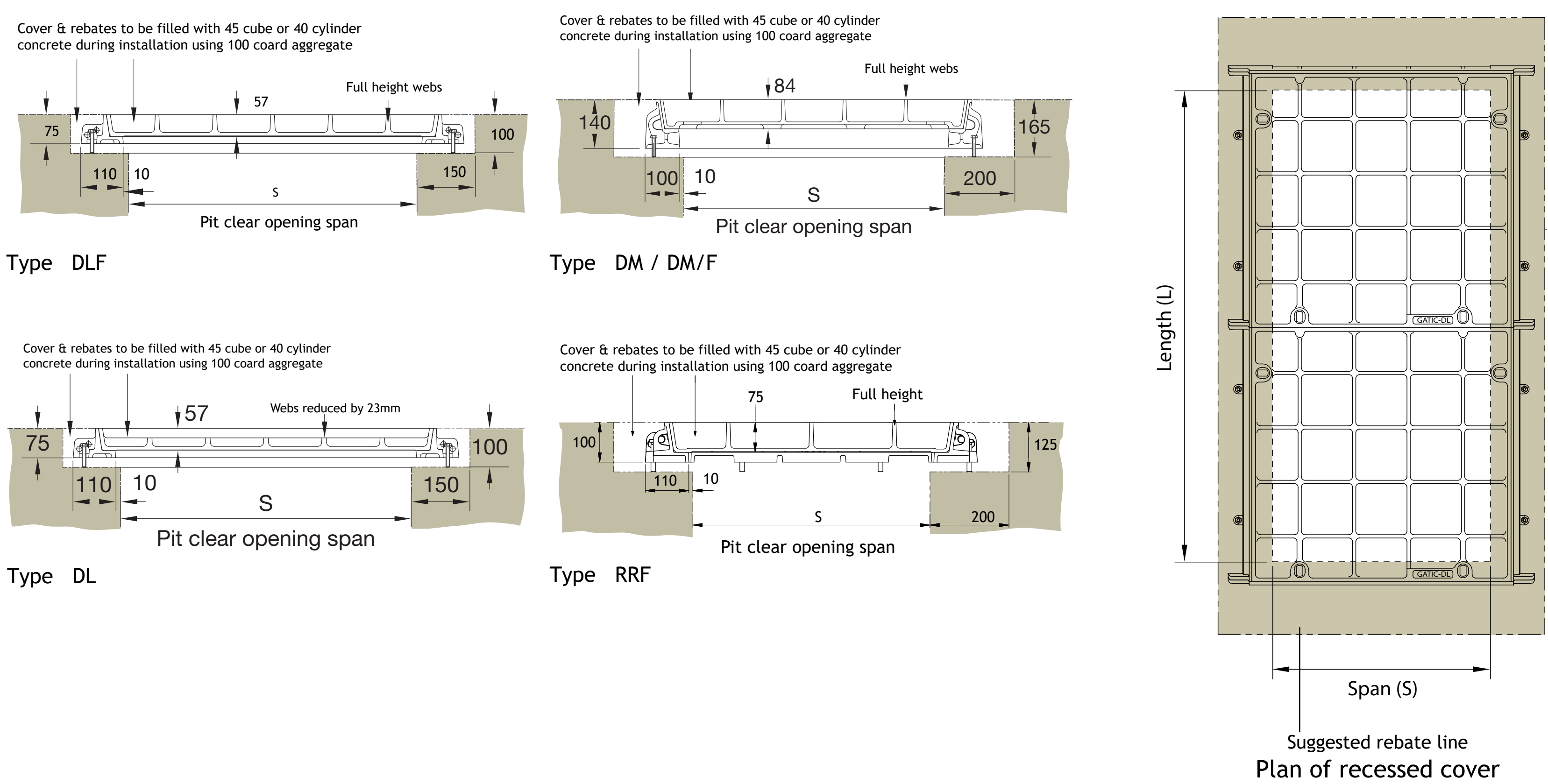
Duct Recessed Covers and Frames



Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			1300	1450	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
300	DLF	(L + 300) x 600 x 100	*	*	2	*	*	*	*	*	3	*	*	*
450	RRF	(L + 400) x 850 x 125	2	2	2	2	*	3	3	3	3	*	4	*
600	DLF	(L + 300) x 900 x 100	2	2	2	2	2	3	3	3	3	3	4	3
750	DLF	(L + 300) x 1050 x 100	2	2	2	2	2	3	3	3	3	3	4	3
900	DLF	(L + 300) x 1200 x 100	2	2	2	2	2	3	3	3	3	3	4	3
1050	RRD	(L + 400) x 1450 x 125	2	2	2	*	*	3	3	3	3	*	4	*
1200	RRD	(L + 400) x 1600 x 125	2	2	2	*	*	3	3	3	3	*	4	*
1500	DM/F	(L + 400) x 1900 x 165	2	2	2	*	*	3	3	3	3	*	4	*

Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			2850	2900	3000	3150	3300	3400	3550	3700	3850	3900	4000	4150
300	DLF	(L + 300) x 600 x 100	*	*	*	*	4	*	*	*	*	*	*	5
450	RRF	(L + 400) x 850 x 125	4	*	4	4	4	5	5	5	5	*	5	5
600	DLF	(L + 300) x 900 x 100	4	3	4	4	4	5	5	5	5	4	5	5
750	DLF	(L + 300) x 1050 x 100	4	3	4	4	4	5	5	5	5	4	5	5
900	DLF	(L + 300) x 1200 x 100	4	3	4	4	4	5	5	5	5	4	5	5
1050	RRD	(L + 400) x 1450 x 125	4	*	4	4	4	5	5	5	5	*	5	5
1200	RRD	(L + 400) x 1600 x 125	4	*	4	4	4	5	5	5	5	*	5	5
1500	DM/F	(L + 400) x 1900 x 165	4	*	4	4	4	5	5	5	5	*	5	5

Technical Diagrams



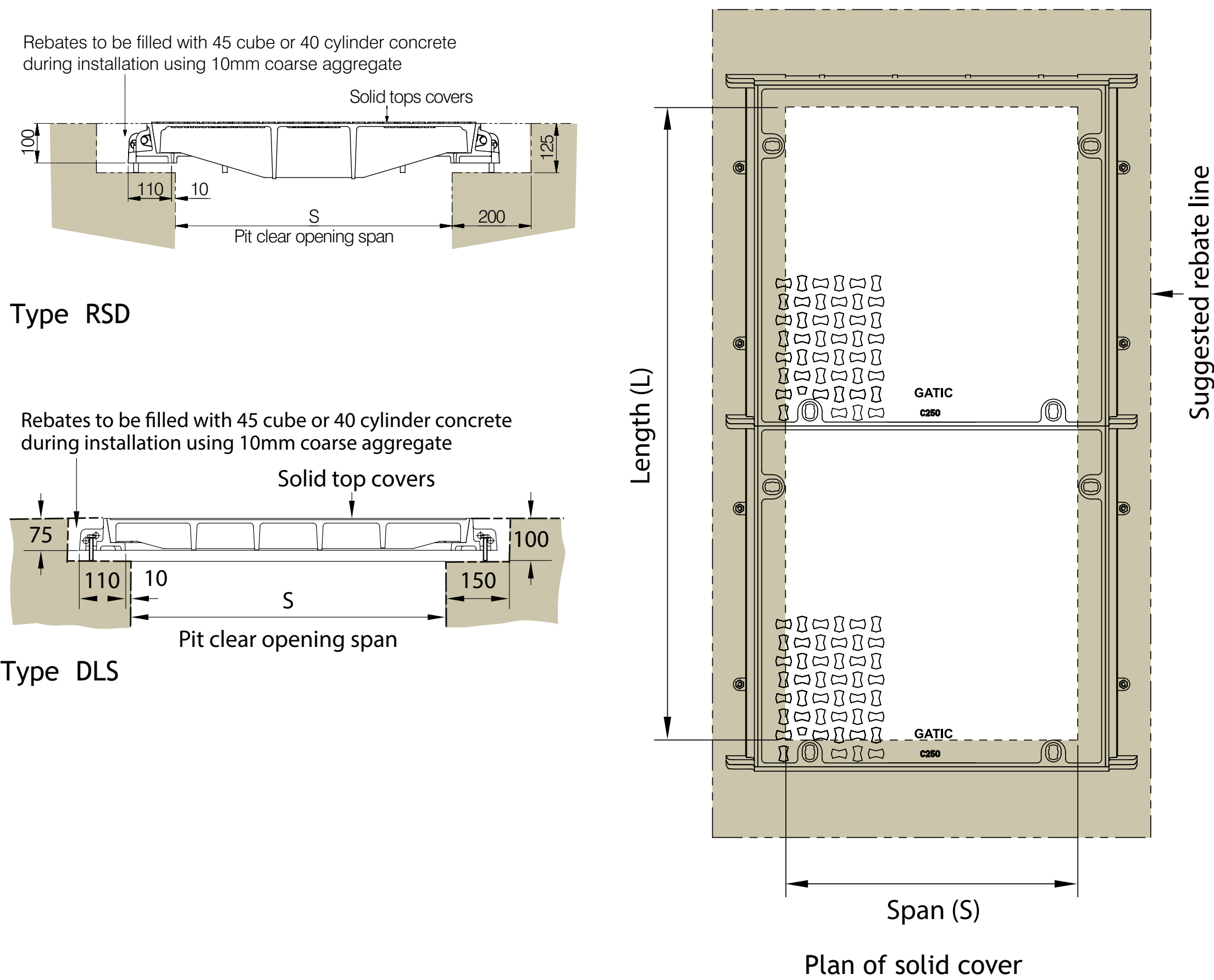
Duct Solid Top Covers and Frames



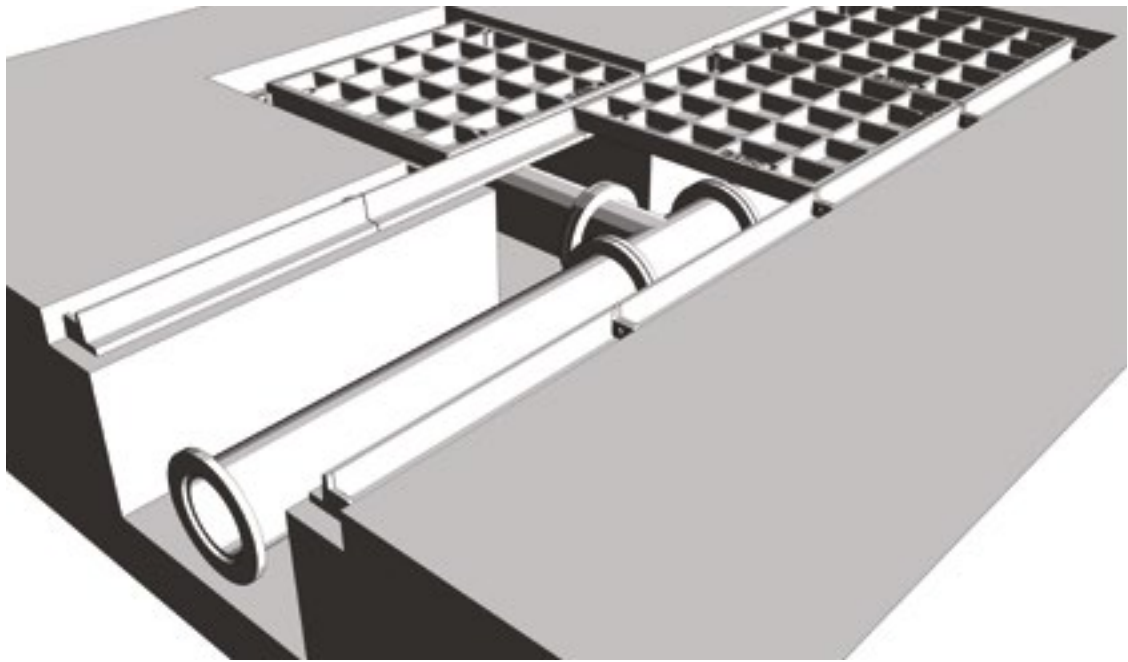
Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			1300	1450	1600	1750	1900	2000	2150	2300	2450	2600	2700	2750
600	DLS	(L + 300) x 900 x 100	2	2	2	2	2	3	3	3	3	3	4	3
750	DLS	(L + 300) x 1050 x 100	2	2	2	2	2	3	3	3	3	3	4	3
900	DLS	(L + 300) x 1200 x 100	2	2	2	2	2	3	3	3	3	3	4	3
1200	RSD	(L + 400) x 1600 x 125	2	2	2	*	*	3	3	3	3	*	4	*

Pit clear opening span (S)	Cover type	Suggested rebate size length x width x depth	Standard pit clear opening length (L)											
			2850	2900	3000	3150	3300	3400	3550	3700	3850	3900	4000	4150
600	DLS	(L + 300) x 900 x 100	4	3	4	4	4	5	5	5	5	4	5	5
750	DLS	(L + 300) x 1050 x 100	4	3	4	4	4	5	5	5	5	4	5	5
900	DLS	(L + 300) x 1200 x 100	4	3	4	4	4	5	5	5	5	4	5	5
1200	RSD	(L + 400) x 1600 x 125	4	*	4	4	4	5	5	5	5	*	5	5

Technical Diagrams

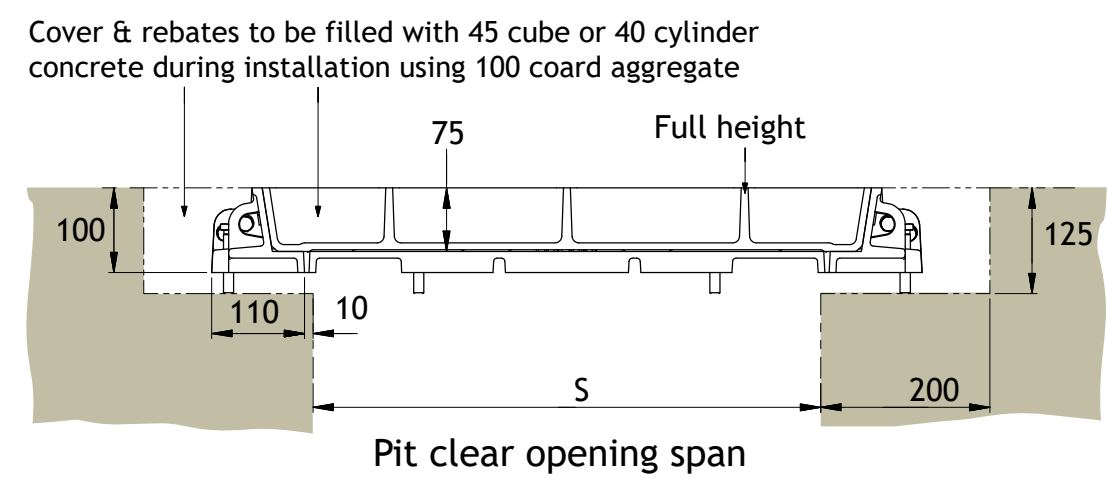


Continuous Recessed Trench Covers and

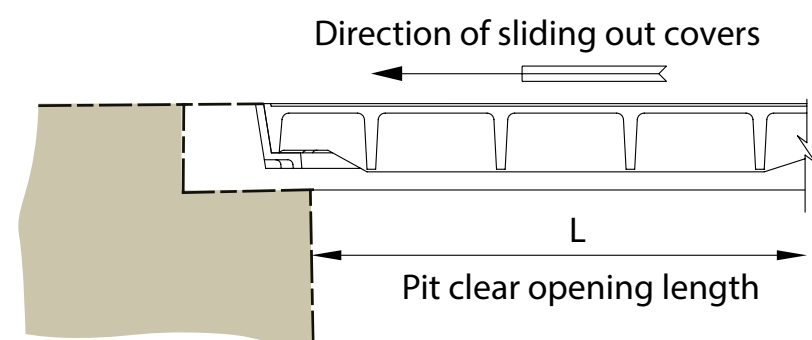


Pit clear opening span	Cover type
300	DLF
450	RRF
600	DLF
750	DLF
900	DLF
1050	RRD
1200	RRD
1500	DM/F

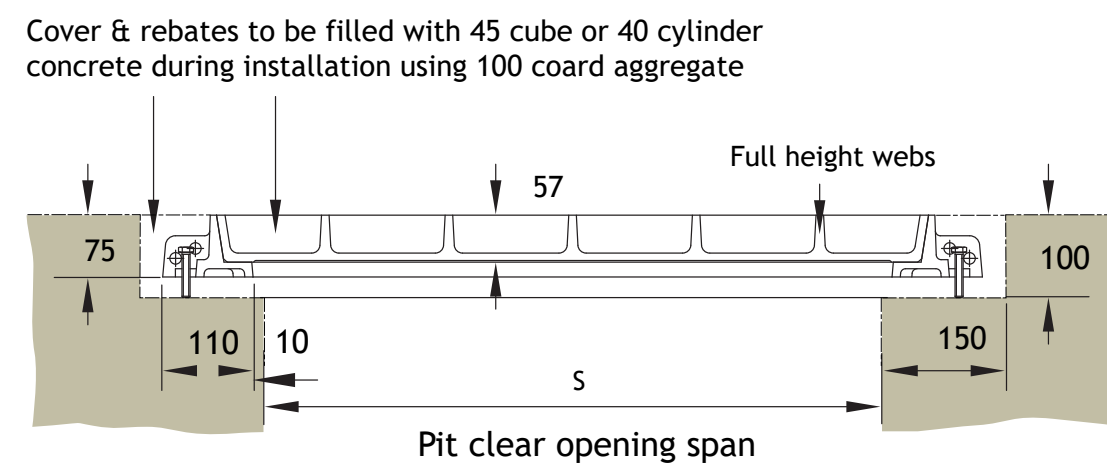
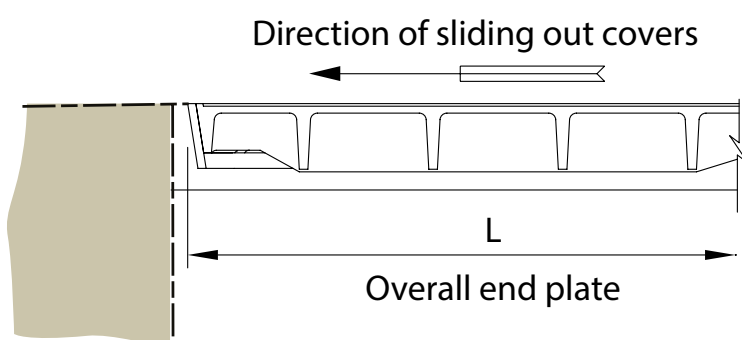
Technical Diagrams



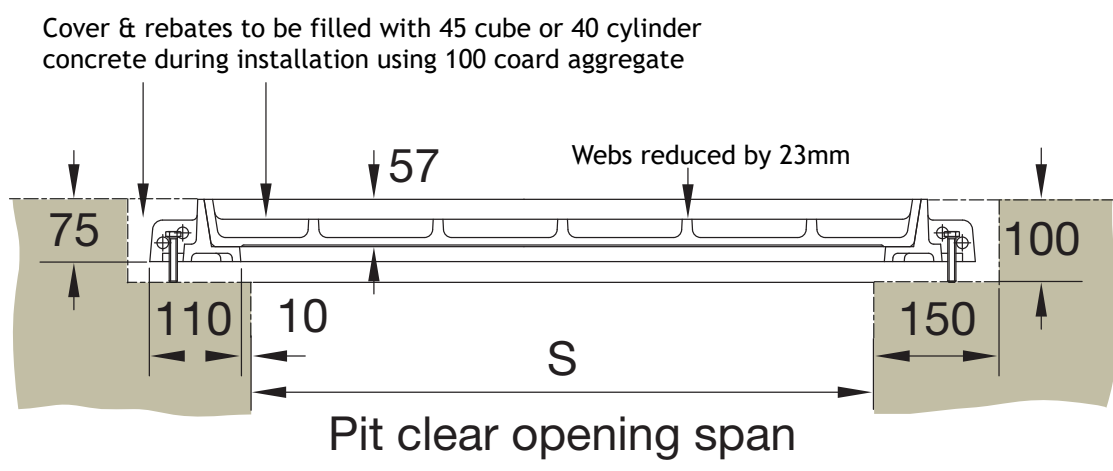
Type RRF



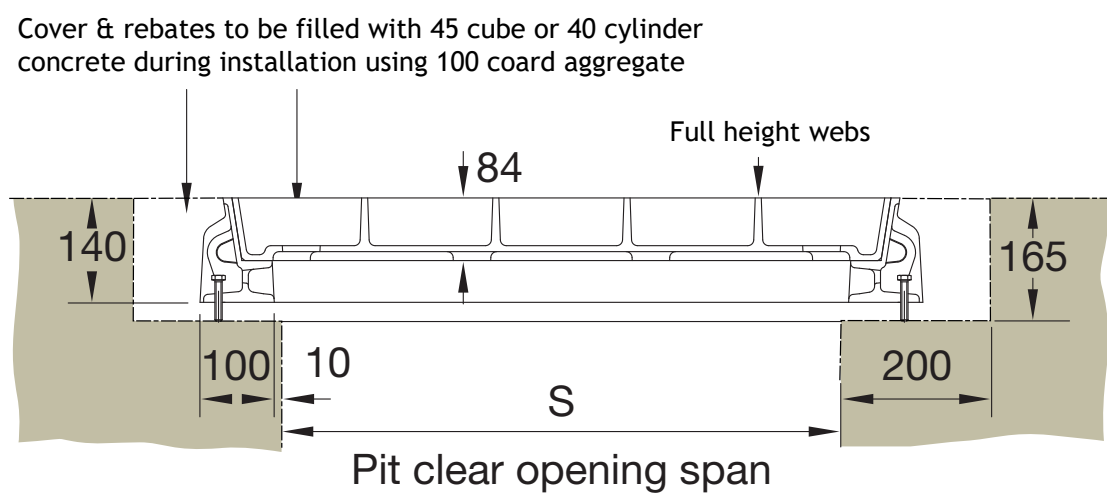
End terminations



Type DLF

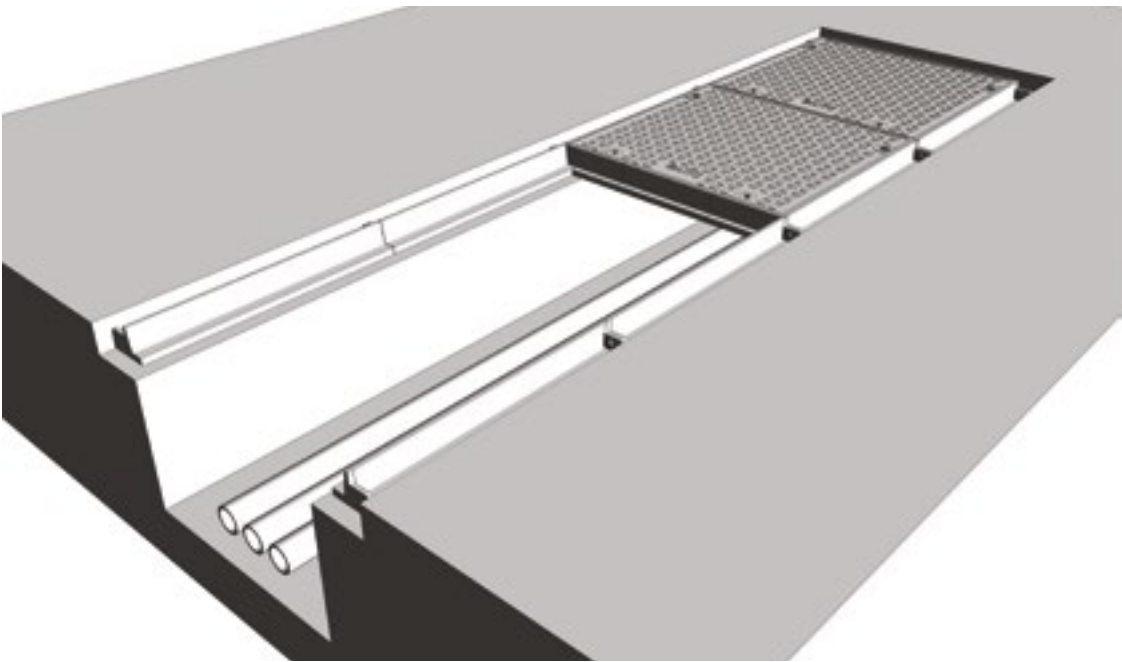


Type DL



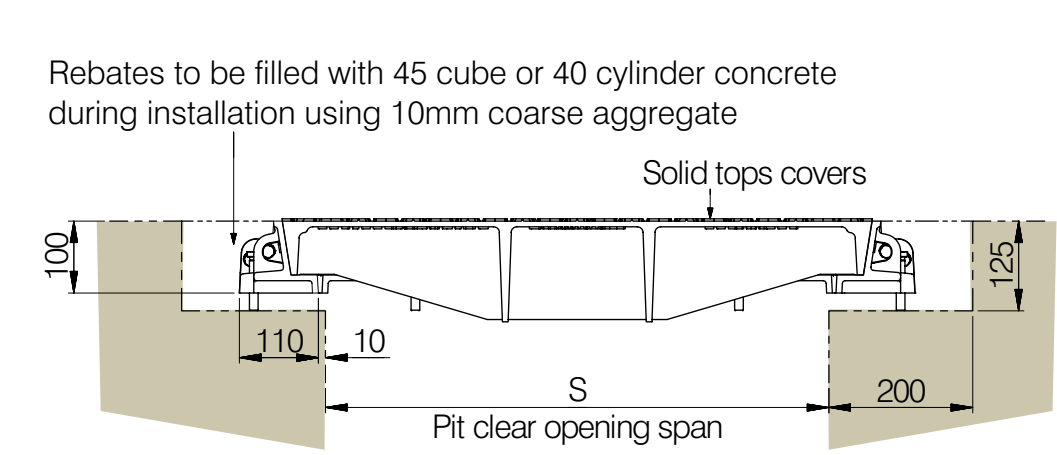
Type DM / DM/F

Continuous Solid Top Trench Covers and Frames

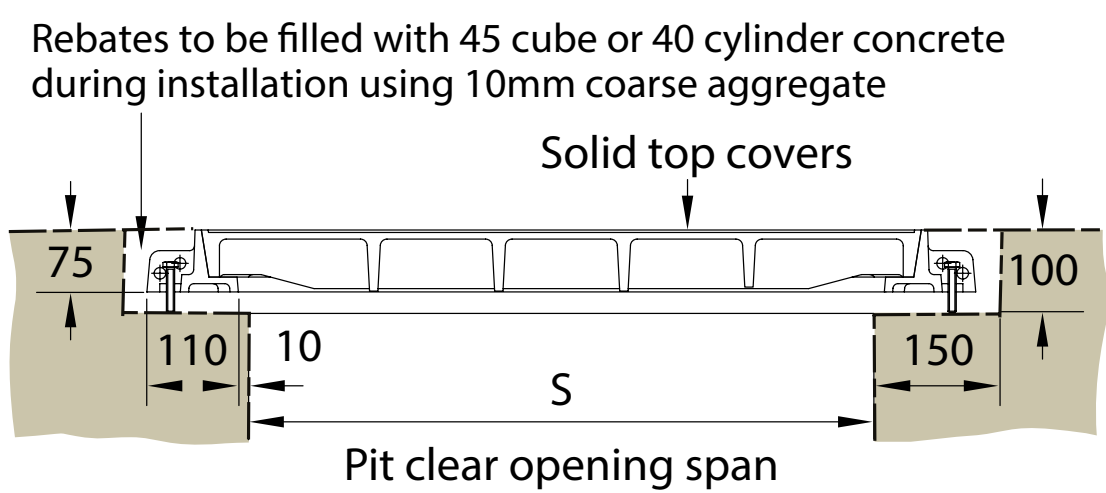


Pit clear opening span	Cover type
600	DLS
750	DLS
900	DLS
1200	RSD

Technical Diagrams



Type RSD



Type DLS

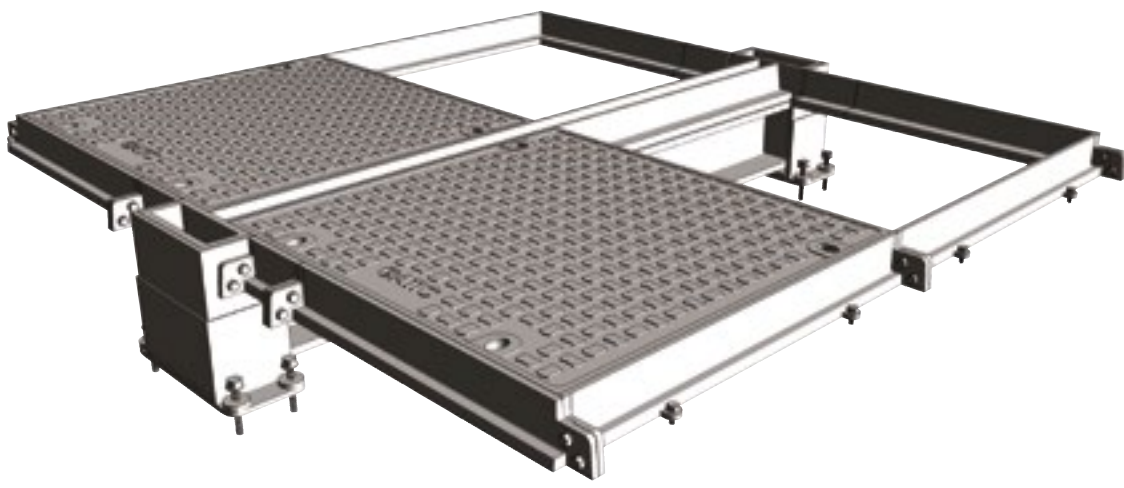
Product Selection

Refer to the table to identify which cover and beam configuration you require against pit clear opening length (L) and pit clear opening span (S). All dimensions are in millimetres. Gatic can achieve sizes beyond the extent of those listed in the table - please speak to the Gatic technical team for further details.

Multispan Covers & Frames



Type DLF recessed



Type DLS solid top

Beam Size

The required beam size for Multispan covers is dependent on the pit clear opening length and the loading group.

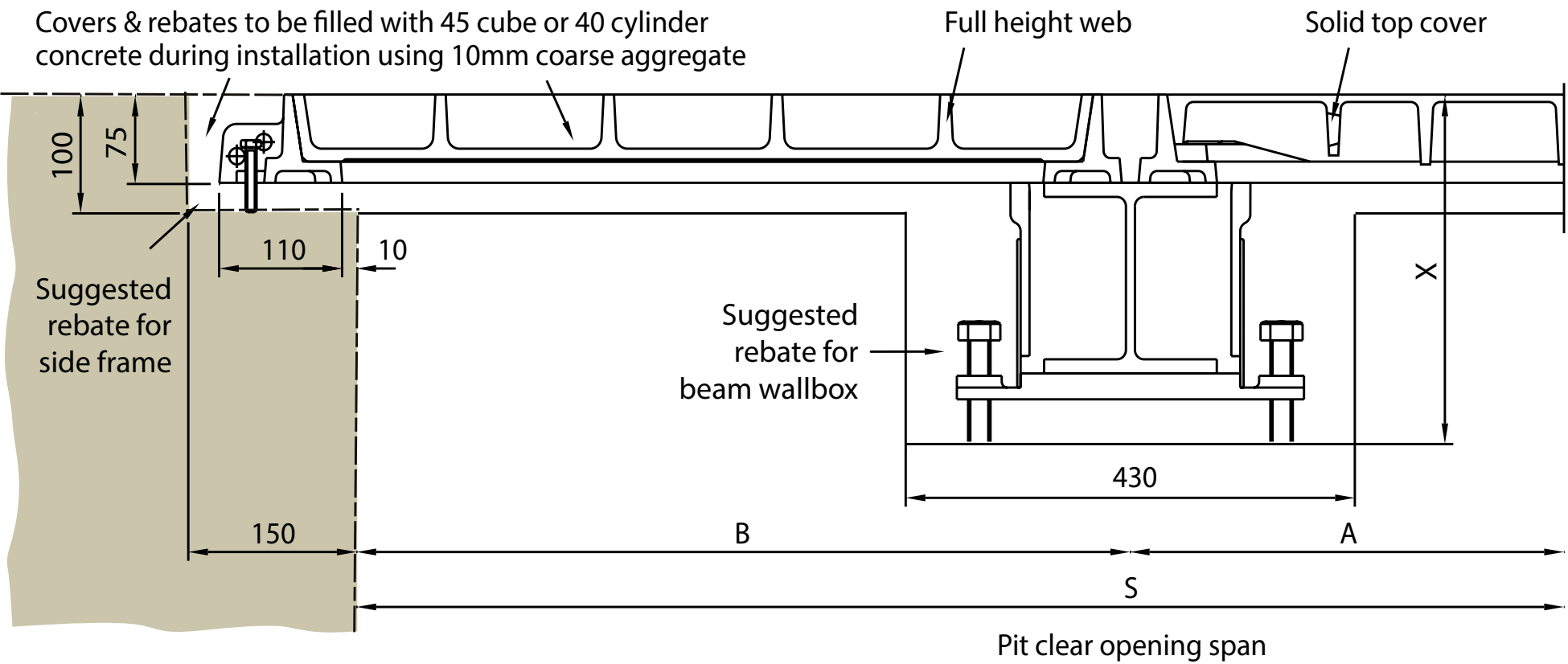
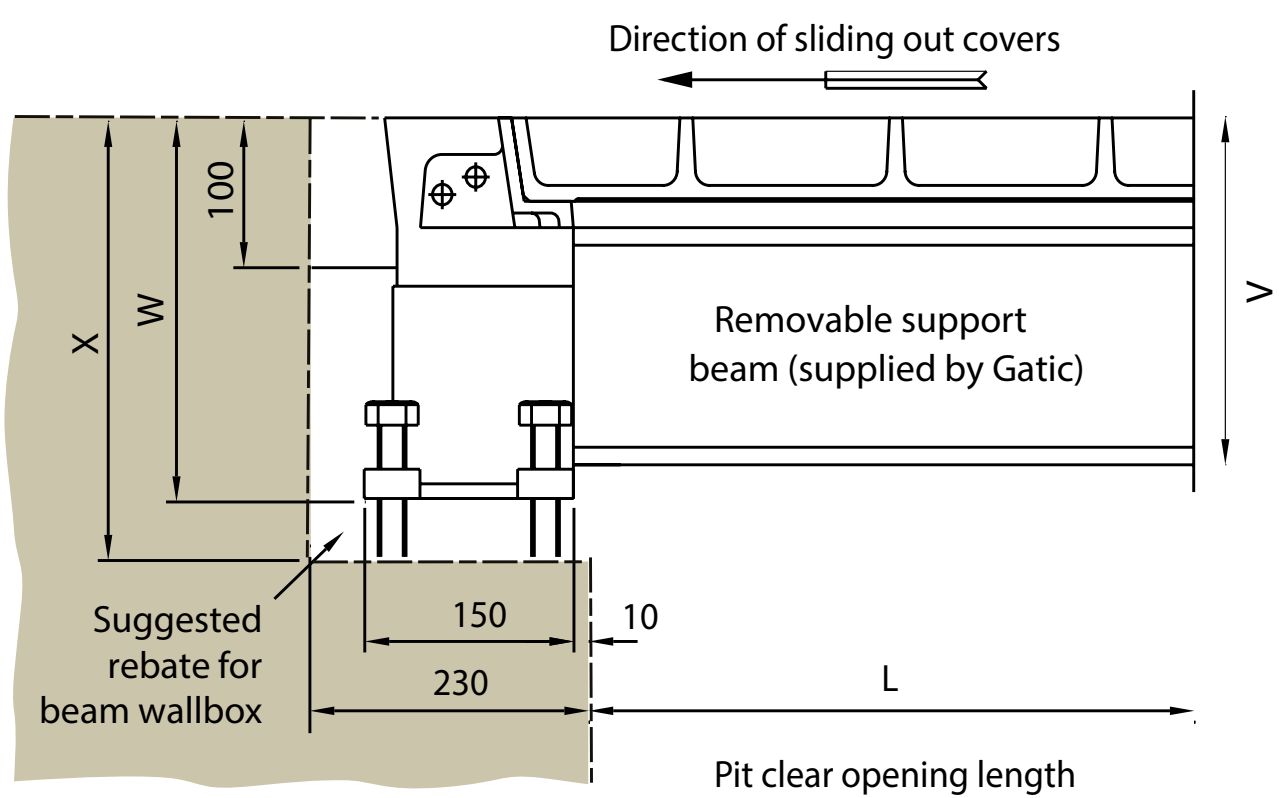
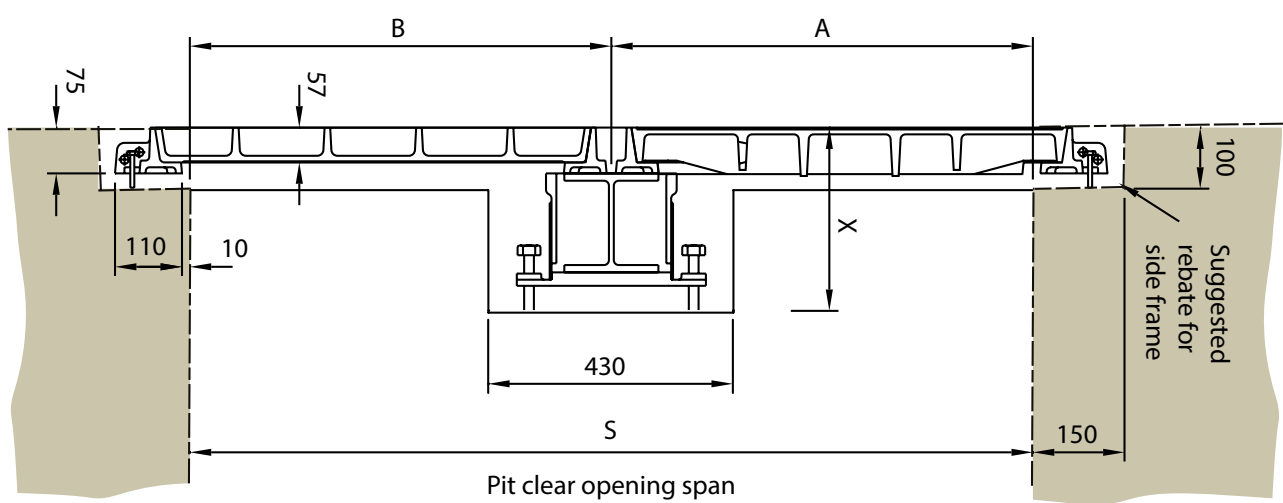
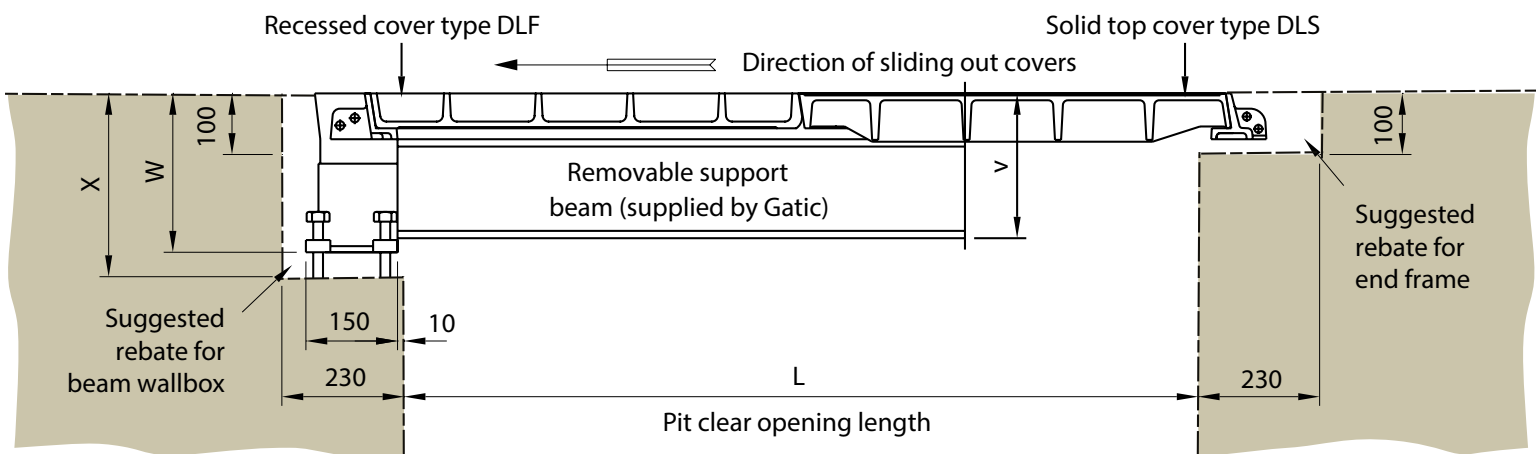
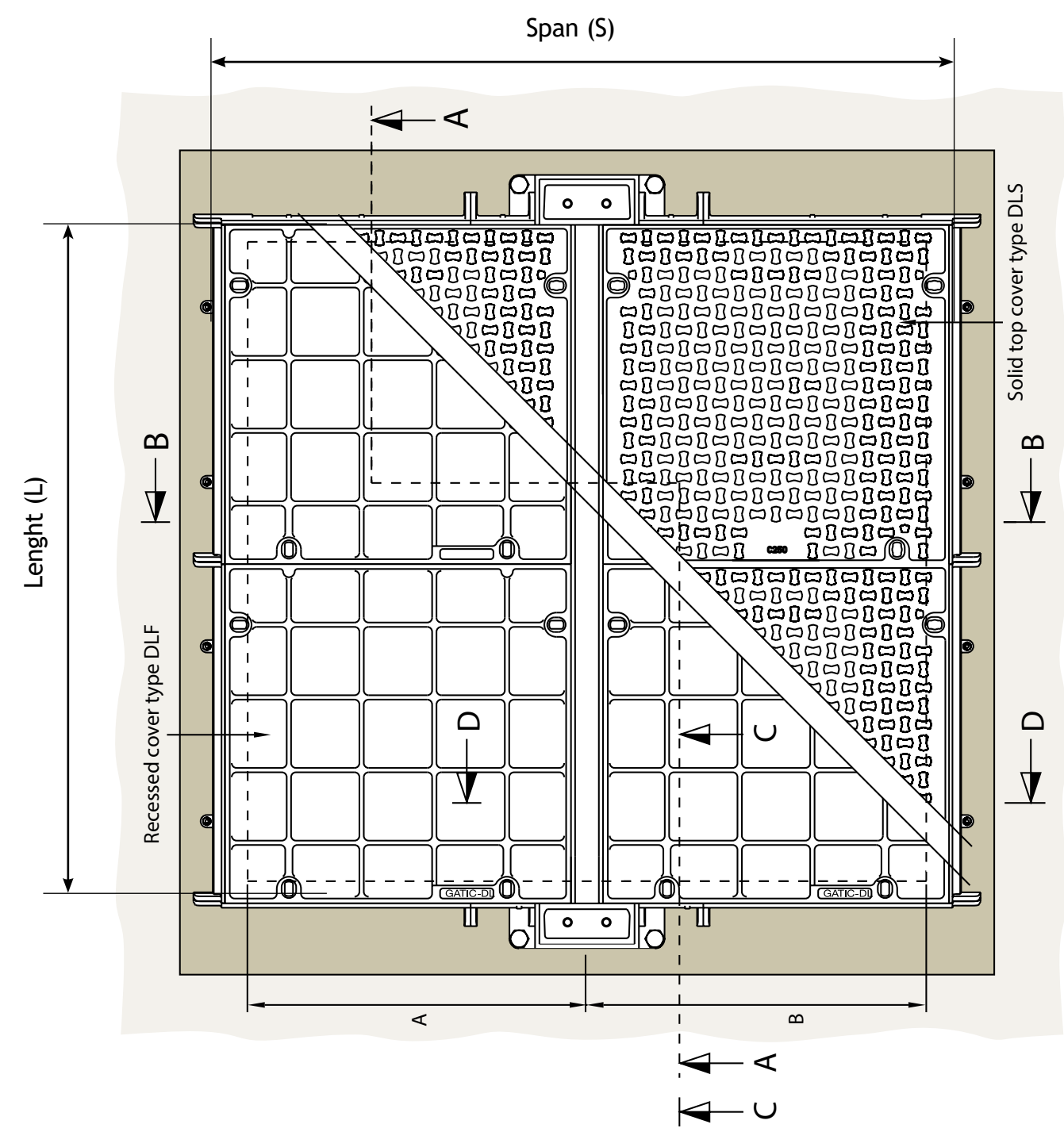
The table shows maximum beam length against beam size. The removable support beams are supplied by Gatic.

The table also indicates dimensions of the beam wallbox and rebate to suit different beam sizes. See also the accompanying section details.

Support beam size chart

Removable support beam size	Max pit clear opening length (L)	Beam wallbox dimensions			
		V	W	X	Y
152 x 152 x 37 kg/m U.C	2750	237	259	300	230
203 x 203 x 52 kg/m U.C.	3900	281	303	345	230

Note: Removable support beams are supplied by Gatic



Lifting keys for covers and frames

Long handled lifting keys - not for use with mechanical or crane lifting

Method of removing Gatic covers using manual lifting keys.

Consult technical department for full details.



Mechanical lifting keys

Mechanical lifting keys are designed and tested for use with crane and other mechanical devices.

Consult technical department for full details.



Installation and Maintenance Guide - How to use Lifting Keys

Please refer to our 'Access Cover Installation and Maintenance Guide' for detailed instructions on how to use lifting keys.

[Click Here for the Access Cover Installation and Maintenance Guide](#)





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DRAINAGE & ACCESS COVERS



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