

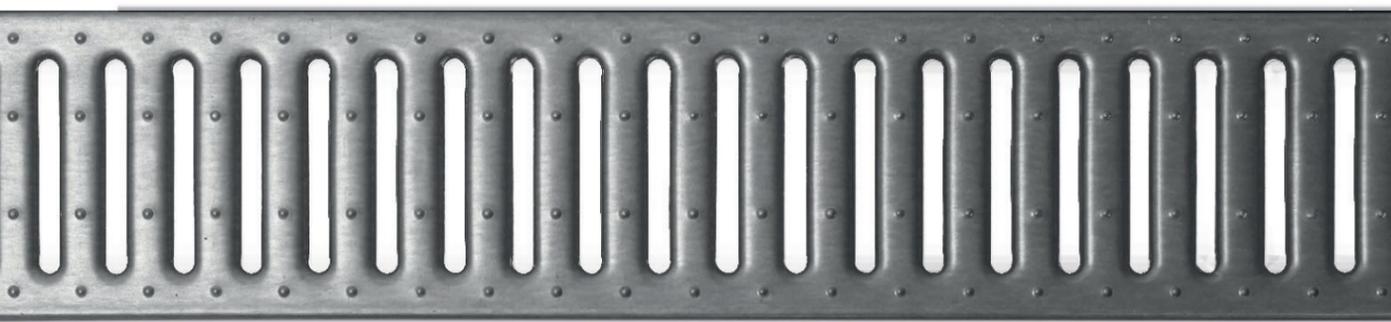
LITE AQUA

This innovative drainage system boasts a range of features tailored for optimal performance. Enhanced durability is ensured through the incorporation of external stiffening ribs providing robustness that withstands external pressures and maintains the system's form. The male-to-female coupling system simplifies assembly between two channels, guaranteeing a secure and seamless fit that upholds structural integrity.

Addressing functionality and hygiene, the system includes corner units compatible with all grating types. These units cleverly house foul air traps, effectively preventing unpleasant odours from resurfacing.

Furthermore, an outlet point is located on the bottom of the channel which facilitates efficient water dispersal, preventing pooling and potential damage.

The design pays thorough attention to hydraulic efficiency, with perfectly smooth channel surface that optimises water flow. The commitment to excellence extends to watertight integrity, ensuring a completely sealed system without any vulnerable connection gaps. Installation flexibility is also granted through the choice of snap lock or bolt & bar fixings, catering to various preference and requirements.



Load Class



A15
1.5 tonnes



B125
12.5 tonnes



C250
25 tonnes

Applications

- Pedestrian areas
- Domestic & civil areas
- Sports & leisure
- Terrace & balconies
- Residential areas

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LITE AQUA

VIRTUAL LANDSCAPE

Not sure what you are looking for?

Check out our Lite Aqua systems against multiple paving backgrounds on our virtual landscape feature. You can mix and match gratings against multiple backgrounds to achieve the ultimate desired look. Each visual can be downloaded as a PDF and sent to customers along with a technical overview of your chosen system.

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LITE AQUA - Overview



Grating Options

There are a range of varied grating options for each of the available Lite Aqua systems. There is a mix of galvanised, composite, and ductile iron grating tops that fit each of the depth options available. The Lite Aqua 55 and 92 has four available grating options. The shallowest depth option is the Lite Aqua 45/48 which has two grating options available.

Material

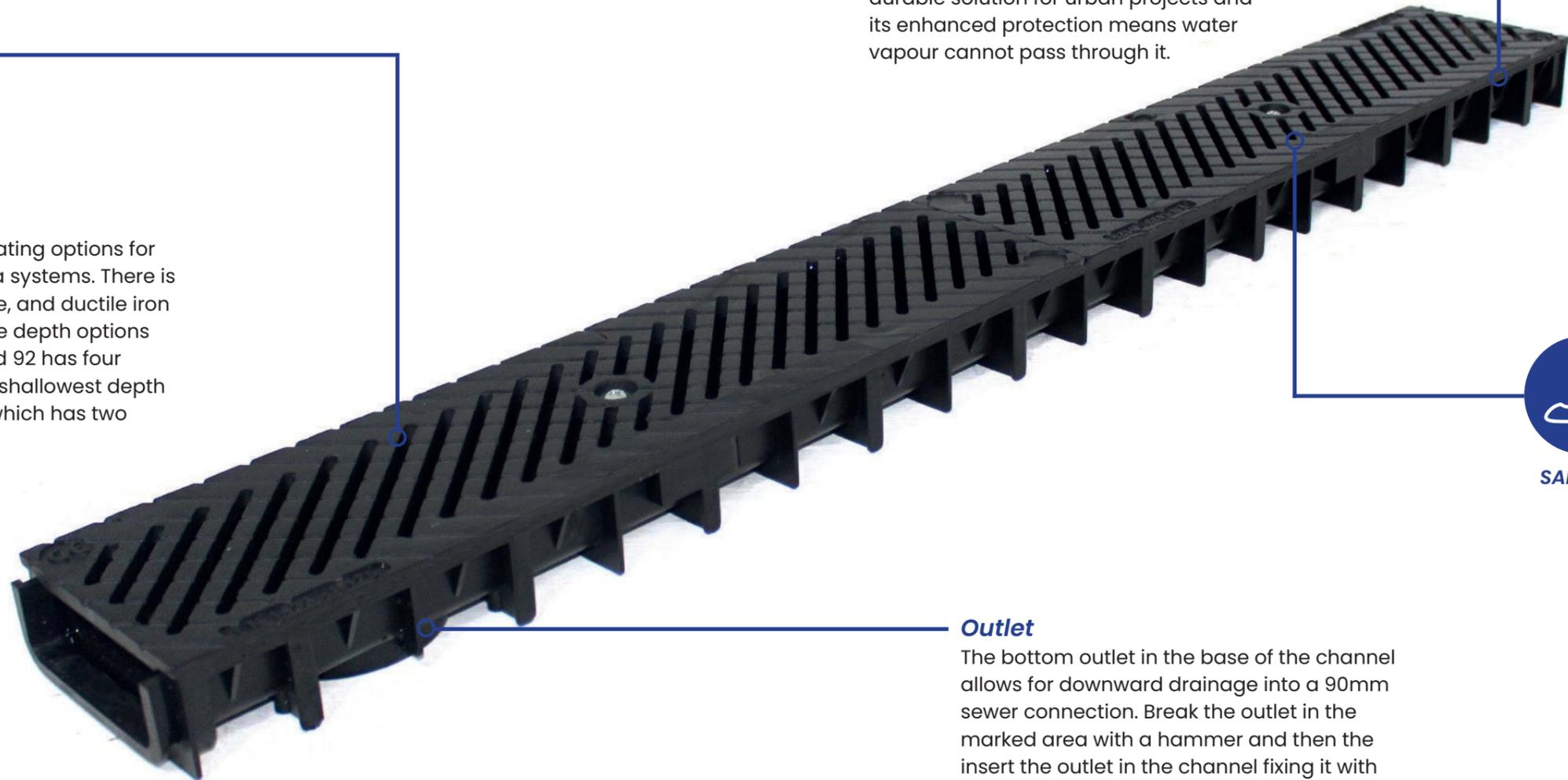
The Lite Aqua system is a lightweight, drainage channel made from polyethylene. This material boasts a robust exterior whilst also being extremely lightweight. This aids in eliminating labour costs due to minimal / no machinery needed for its installation. It is a durable solution for urban projects and its enhanced protection means water vapour cannot pass through it.

Colour Options

Black



Grey



SAFEHEEL

Outlet

The bottom outlet in the base of the channel allows for downward drainage into a 90mm sewer connection. Break the outlet in the marked area with a hammer and then the insert the outlet in the channel fixing it with the four screws supplied.

Load Classes



A15



B125



C250

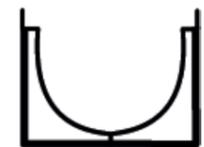
Depth Options



45mm



55mm

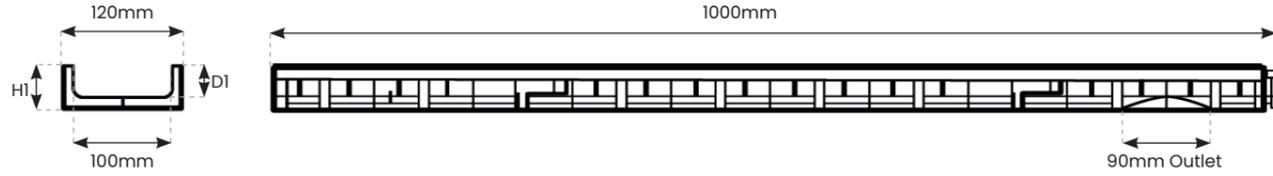


92mm

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LITE AQUA - 45/48mm depth

The Lite Aqua 45 & 48 are lightweight systems made from polyethylene. They both have an incredibly shallow depth of 45mm and 48mm, making them the perfect choice for sites that require minimal digging. The overlay gratings available for the systems provide a clean and minimal look whilst offering great strength in their design.



Grating Options - 45/48mm



Galvanised Steel Slotted (A15)



Ductile Iron Slotted (C250)

Grating - Specifications

Reference	Description	Internal Width	Overall Width	Overall Depth(H)	Internal Depth(D)	Load Class	Safe Heel
LA.100.45.GSG	Lite Aqua 100.45 - 1m + Galvanised Slotted Grating	100mm	120mm	45mm	35mm	A	-
LA.100.48.DISG	Lite Aqua 100.48 - 1m + Ductile Iron 7mm Slotted Grating	100mm	120mm	48mm	38mm	A/B/C	Yes

Accessories

The Lite Aqua 45 has a complete range of accessories to complete the system. It has end caps and corner units with matching grating tops. The end caps are used for blocking off the end of the channel run while the corner units allow the system to be able to turn 90° corners within the channel run.



Galvanised Steel Slotted Sump Unit



Ductile Iron Safeheel Slotted Sump Unit

Corner Units

There is a matching corner unit for each of the 2 available gratings in the Lite Aqua system. The corner units come with a built-in foul air trap to stop unwanted smells from travelling back up through the system.



Galvanised Steel Slotted



Ductile Iron Safeheel Slotted

End Cap & Outlet

End caps are used at the end of the channel run to stop the flow of water.



End Cap



End Cap Outlet



Outlet

Bolt & Bar

A bolt and bar mechanism is utilized for added security, effectively locking the grating into place for enhanced stability.



Bolt & Bar

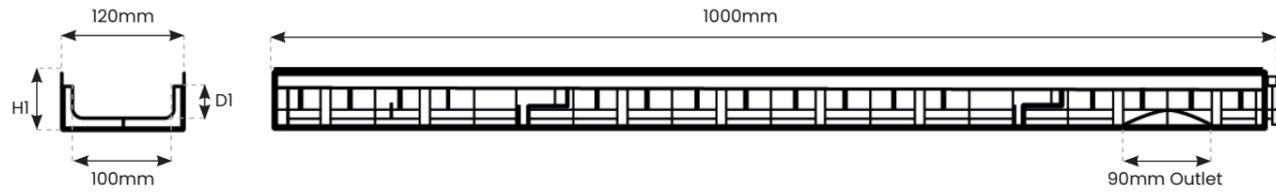
Accessories - Specifications

Reference	Description	Height (H)	Overall Width	Weight (KG)	Load Class	Outlet
CU.LA.100.45.GSG	Lite Aqua 100.45 Corner Unit + Galvanised Slotted Grating	45mm	120mm	0.6kg	A	110mm
CU.LA.100.45.DISG	Lite Aqua 100.45 Corner Unit + Ductile Iron Slotted Grating	45mm	120mm	0.4kg	A/B/C	110mm
SU.LA.100.45.GSG	Lite Aqua 100.45 Sump Unit + Galvanised Slotted Grating	340mm	120mm	1.2kg	A	110mm
SU.LA.100.45.DISG	Lite Aqua 100.45 Sump Unit + Ductile Iron Slotted Grating	335mm	120mm	0.9kg	A/B/C	110mm
ECQ.LA.100.45	Lite Aqua 100.45 40mm End Cap Outlet	36mm	110mm	0.4kg	-	40mm
EC.LA.100.45	Lite Aqua 100.45 End Cap	36mm	110mm	0.2kg	-	-
VO.LA.100.45	Lite Aqua 100.45 110mm Vertical Outlet	35mm	110mm	1.5kg	-	-

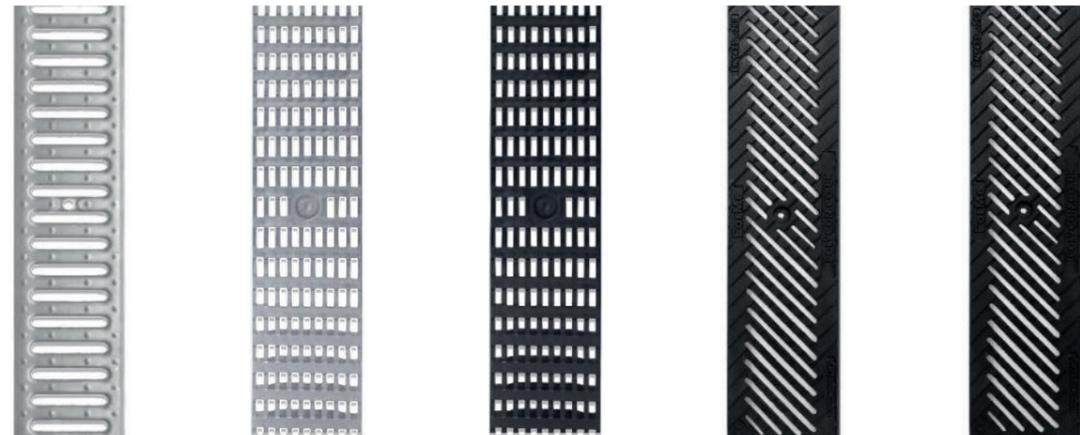
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LITE AQUA - 55mm depth

The Lite Aqua 55 system is a lightweight drainage channel made from polyethylene. It has an incredibly shallow depth of just 55mm making it ideal if you have digging restrictions on site. This system is perfect for urban and domestic projects where slow-moving traffic and pedestrians will be traveling across it.



Grating Options - 55mm



Galvanised Steel Slotted (A15)

Composite Mesh Grey (A15)

Composite Mesh Black (A15)

Composite Slotted (B125)

Ductile Iron Slotted (C250)

Grating - Specifications

Reference	Description	Internal Width	Overall Width	Overall Depth(H1)	Internal Depth(D1)	Load Class	Safe Heel
LA.100.55.GSG	Lite Aqua 100.55 - 1m + Galvanised 8mm Slotted Grating	100mm	120mm	55mm	35mm	A	-
LA.100.55.CMGG	Lite Aqua 100.55 - 1m + Composite 7x 10mm Mesh Grey Grating	100mm	120mm	55mm	35mm	A	-
LA.100.55.CMBG	Lite Aqua 100.55 - 1m + Composite 7x 10mm Mesh Black Grating	100mm	120mm	55mm	35mm	A	-
LA.100.55.CSG	Lite Aqua 100.55 - 1m + Composite 7mm Slotted Grating	100mm	120mm	55mm	35mm	A/B	Yes
LA.100.55.DISG	Lite Aqua 100.55- 1m + Ductile Iron 7mm Slotted Grating	100mm	120mm	55mm	35mm	A/B/C	Yes

Accessories

The Lite Aqua 55 has a complete range of accessories to complete the system. It has end caps and corner units with matching grating tops. The end caps are used for blocking off the end of the channel run while the corner units allow the system to be able to turn 90° corners within the channel run.



Composite Mesh Sump Unit

Galvanised Steel Slotted Sump Unit

Ductile Iron Safeheel Slotted Sump Unit

Corner Units

There is a matching corner unit for each of the 3 available gratings in the Lite Aqua system. The corner units come with a built-in foul air trap to stop unwanted smells from travelling back up through the system.



Composite Mesh

Galvanised Steel Slotted

Ductile Iron Safeheel Slotted

End Cap & Outlet

End caps are used at the end of the channel run to stop the flow of water.



End Cap

End Cap Outlet

Outlet

Bolt & Bar

A bolt and bar mechanism is utilized for added security, effectively locking the grating into place for enhanced stability.



Bolt & Bar

Accessories also available in grey colour.

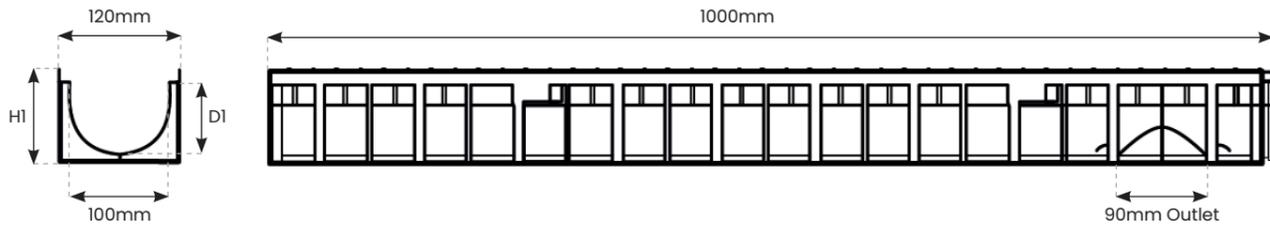
Accessories - Specifications

Reference	Description	Height (H)	Overall Width	Weight (KG)	Load Class	Outlet
CU.LA.100.55.GSG	Lite Aqua 100.55 Corner Unit + Galvanised Slotted Grating	55mm	120mm	0.6kg	A	110mm
CU.LA.100.55.CMGG	Lite Aqua 100.55 Corner Unit + Composite Mesh Grating	55mm	120mm	0.4kg	A	110mm
CU.LA.100.55.DISG	Lite Aqua 100.55 Corner Unit + Ductile Iron Slotted Grating	55mm	120mm	1.2kg	A/B/C	110mm
SU.LA.100.55.GSG	Lite Aqua 100.55 Sump Unit + Galvanised Slotted Grating	340mm	120mm	0.9kg	A	110mm
SU.LA.100.55.CMGG	Lite Aqua 100.55 Sump Unit + Composite Mesh Grating	340mm	120mm	0.7kg	A	110mm
SU.LA.100.55.DISG	Lite Aqua 100.55 Sump Unit + Ductile Iron Slotted Grating	335mm	120mm	1.5kg	A/B/C	110mm
EO.LA.100.55	Lite Aqua 100.55 40mm End Cap Outlet	36mm	110mm	0.4kg	-	40mm
EO.LA.100.55	Lite Aqua 100.55 110mm Vertical Outlet	36mm	110mm	0.1kg	-	-
VO.LA.100.55	Lite Aqua 100.55 110mm Vertical Outlet	35mm	110mm	0.3kg	-	-

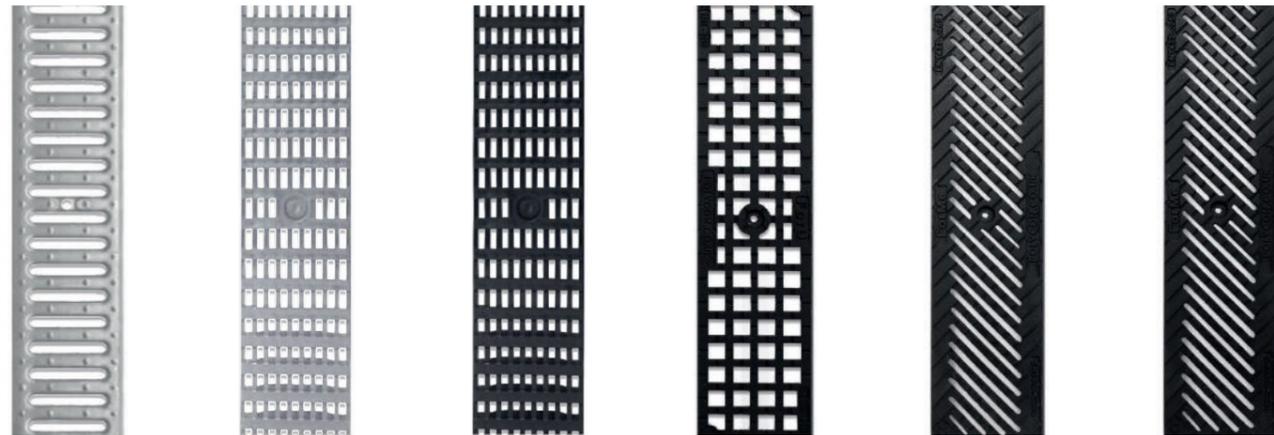
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LITE AQUA - 92mm depth

The Lite Aqua 92 system is a lightweight, channel drainage system made from polyethylene. It has a shallow depth of just 92mm making it perfect for most urban & domestic projects where slow-moving traffic and pedestrians will be traveling across the system.



Grating Options - 92mm



Galvanised Steel Slotted (A15) Composite Mesh Grey (A15) Composite Mesh Black (A15) Ductile Iron Square Mesh (B125) Composite Slotted (B125) Ductile Iron Slotted (C250)

Grating - Specifications

Reference	Description	Internal Width	Overall Width	Overall Depth(H1)	Internal Depth(D1)	Load Class	Safe Heel
LA.100.92.GSG	Lite Aqua 100.92 - 1m + Galvanised 8mm Slotted Grating	100mm	120mm	92mm	62mm	A	-
LA.100.92.CMBG	Lite Aqua 100.92 - 1m + Composite 7x 10mm Mesh Black Grating	100mm	120mm	92mm	62mm	A	-
LA.100.92.CMGG	Lite Aqua 100.92 - 1m + Composite 7x 10mm Mesh Grey Grating	100mm	120mm	92mm	62mm	A	-
LA.100.92.DISM	Lite Aqua 100.92 - 1m + Ductile Iron 10mm x 10mm Square Mesh	100mm	120mm	92mm	62mm	A/B	-
LA.100.92.CSG	Lite Aqua 100.92 - 1m + Composite 7mm Slotted Grating	100mm	120mm	92mm	62mm	A/B	Yes
LA.100.92.DISG	Lite Aqua 100.92 - 1m + Ductile Iron 7mm Slotted Grating	100mm	120mm	92mm	62mm	A/B/C	Yes

Accessories

The Lite Aqua 92 has a complete range of accessories to complete the system. It has end caps and corner units with matching grating tops. The end caps are used for blocking off the end of the channel run while the corner units allow the system to be able to turn 90° corners within the channel run.



Composite Mesh Sump Unit Galvanised Steel Slotted Sump Unit Ductile Iron Safeheel Slotted Sump Unit

Corner Units

There is a matching corner unit for each of the 3 available gratings in the Lite Aqua system. The corner units come with a built-in foul air trap to stop unwanted smells from travelling back up through the system.



Composite Mesh Galvanised Steel Slotted Ductile Iron Safeheel Slotted

End Cap & Outlet

End caps are used at the end of the channel run to stop the flow of water.



End Cap End Cap Outlet Outlet

Bolt & Bar

A bolt and bar mechanism is utilized for added security, effectively locking the grating into place for enhanced stability.



Bolt & Bar

Accessories also available in grey colour.

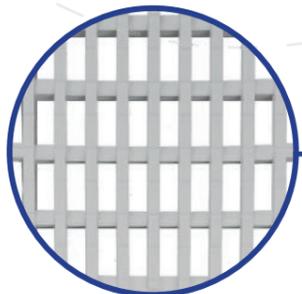
Accessories - Specifications

Reference	Description	Height (H)	Overall Width	Weight (KG)	Load Class	Outlet
CU.LA.100.92.GSG	Lite Aqua 100.92 Corner Unit + Galvanised Slotted Grating	92mm	120mm	0.6kg	A	110mm
CU.LA.100.92.CMG	Lite Aqua 100.92 Corner Unit + Composite Mesh Grating	92mm	120mm	0.4kg	A	110mm
CU.LA.100.92.DISG	Lite Aqua 100.92 Corner Unit + Ductile Iron Slotted Grating	92mm	120mm	1.2kg	A/B/C	110mm
SU.LA.100.92.GSG	Lite Aqua 100.92 Sump Unit + Galvanised Slotted Grating	375mm	120mm	0.9kg	A	110mm
SU.LA.100.92.CMG	Lite Aqua 100.92 Sump Unit + Composite Mesh Grating	375mm	120mm	0.7kg	A	110mm
SU.LA.100.92.DISG	Lite Aqua 100.92 Sump Unit + Ductile Iron Slotted Grating	370mm	120mm	1.5kg	A/B/C	110mm
EC.P.LA.100.92	Lite Aqua 100.92 75mm End Cap Outlet	78mm	110mm	0.4kg	-	75mm
EC.LA.100.92	Lite Aqua 100.92 End Cap	78mm	110mm	0.1kg	-	-
VC.LA.100.92	Lite Aqua 100.92 110mm Vertical Outlet	35mm	110mm	0.3kg	-	-

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LITE AQUA - Grey Channel

Colour Options

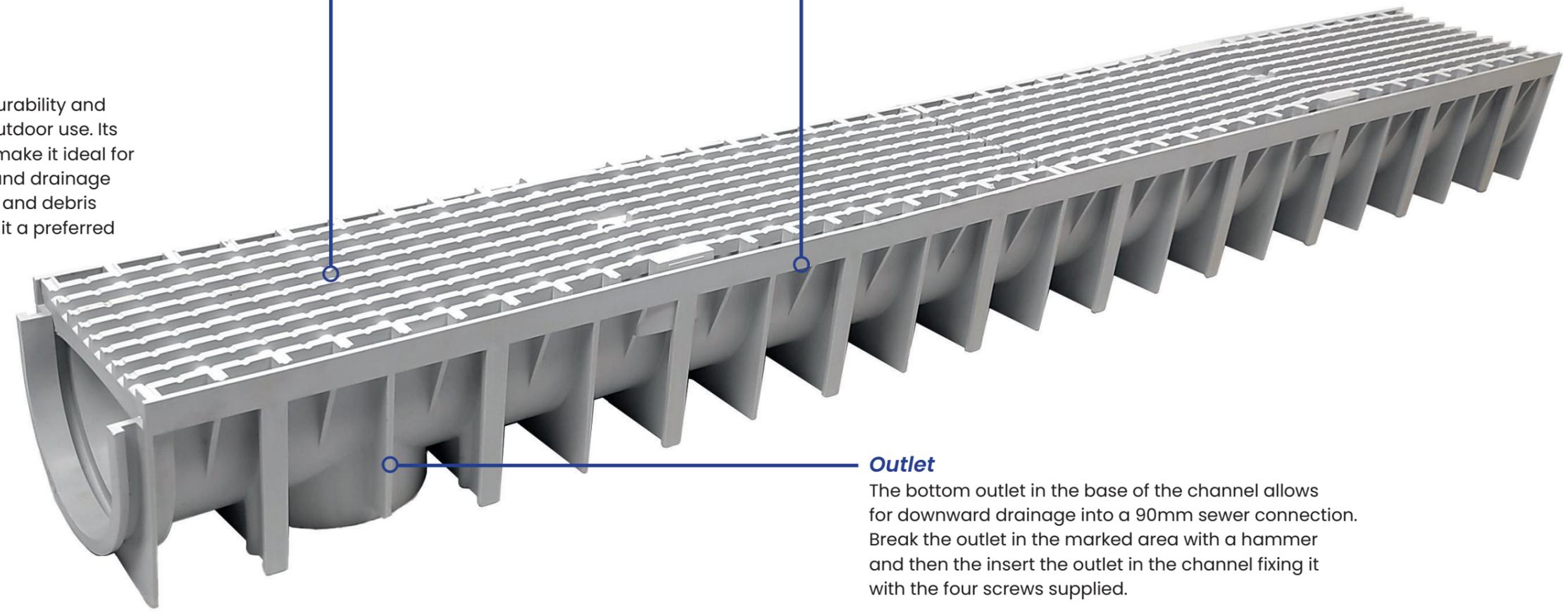


Grating Options

Composite Mesh grating offers durability and strength, resisting corrosion for outdoor use. Its flexibility and structural integrity make it ideal for high-traffic areas like sidewalks and drainage systems. Efficient water drainage and debris filtration enhance safety, making it a preferred choice for various applications.

Material

The Lite Aqua system is a lightweight, drainage channel made from polyethylene. This material boasts a robust exterior whilst also being extremely lightweight. This aids in eliminating labour costs due to minimal / no machinery needed for its installation. It is a durable solution for urban projects and its enhanced protection means water vapour cannot pass through it.



Outlet

The bottom outlet in the base of the channel allows for downward drainage into a 90mm sewer connection. Break the outlet in the marked area with a hammer and then the insert the outlet in the channel fixing it with the four screws supplied.

Load Classes

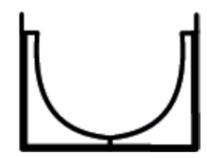


A15

Depth Options



55mm



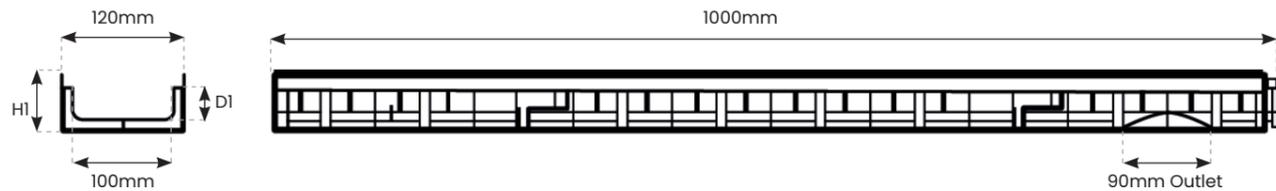
92mm

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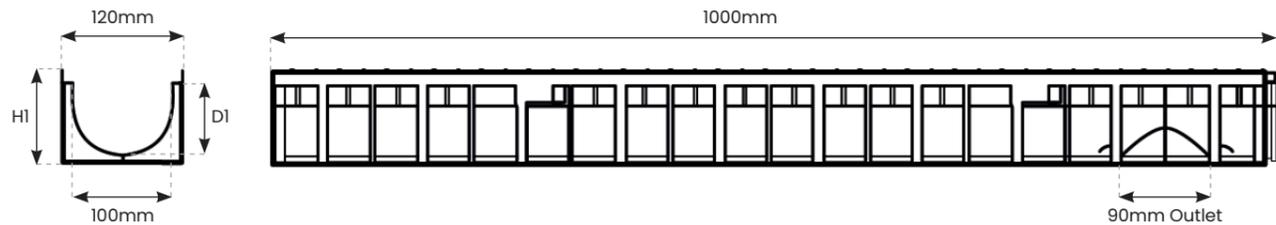
LITE AQUA - Grey Channel

The Lite Aqua 55 & 92 are lightweight systems made from polyethylene. They both have an incredibly shallow depth of 55mm and 92mm, making it ideal if you have digging restrictions on site. This system is perfect for urban and domestic projects where slow-moving traffic and pedestrians will be traveling across it.

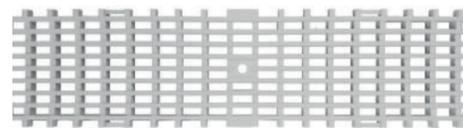
Lite Aqua Channel - 55mm depth



Lite Aqua Channel - 92mm depth



Grating Options - 55/92mm



Composite Mesh Grey (A15)

Grating - Specifications

Reference	Description	Internal Width	Overall Width	Overall Depth(H)	Internal Depth(D1)	Load Class	Safe Heel
LA.100.55.CMGG	Lite Aqua 100.55 - 1m + Composite 7x10mm Mesh Grey Grating	100mm	120mm	55mm	35mm	A	Yes
LA.100.92.CMGG	Lite Aqua 100.92 - 1m + Composite 7x10mm Mesh Grey Grating	100mm	120mm	92mm	62mm	A	Yes

Accessories

The Lite Aqua 55 and 92 has a complete range of accessories to complete the system. It has end caps and corner units with matching grating tops. The end caps are used for blocking off the end of the channel run while the corner units allow the system to be able to turn 90° corners within the channel run.



Composite Mesh Corner Unit - 92mm depth



Galvanised Steel Corner Unit - 92mm depth

Corner Units

There is a matching corner unit for each depth options. The corner units come with a built-in foul air trap to stop unwanted smells from travelling back up through the system.



Composite Mesh Corner Unit - 55mm depth



Galvanised Steel Corner Unit - 55mm depth

End Cap & Outlet

End caps are used at the end of the channel run to stop the flow of water.



Outlet



End Cap - 55mm



End Cap - 92mm

End Cap Outlet

End Cap Outlet can be used at the end of the run to allow water to be taken to your exterior drainage pipes and away from the channel.



End Cap Outlet - 55mm



End Cap Outlet - 92mm

Accessories - Specifications

Reference	Description	Height (H)	Overall Width	Weight (KG)	Load Class	Outlet
CU.LA.100.55.GSGG	Lite Aqua 100.55 Grey Corner Unit + Galvanised Slotted Grating	55mm	120mm	0.6kg	A	110mm
CU.LA.100.55.CMGG	Lite Aqua 100.55 Grey Corner Unit + Composite Mesh Grey Grating	55mm	120mm	0.4kg	A	110mm
SU.LA.100.55.GSGG	Lite Aqua 100.55 Sump Unit + Galvanised Slotted Grating	340mm	120mm	0.9kg	A	110mm
SU.LA.100.55.CMGG	Lite Aqua 100.55 Sump Unit + Composite Mesh Grey Grating	340mm	120mm	0.7kg	A	110mm
ECG.LA.100.55	Lite Aqua 100.55 End Cap Grey	36mm	110mm	0.1kg	-	-
CU.LA.100.92.GSGG	Lite Aqua 100.92 Grey Corner Unit + Galvanised Slotted Grating	92mm	120mm	0.6kg	A	110mm
CU.LA.100.92.CMGG	Lite Aqua 100.92 Corner Unit + Composite Mesh Grey Grating	92mm	120mm	0.4kg	A	110mm
SU.LA.100.92.GSGG	Lite Aqua 100.92 Sump Unit + Galvanised Slotted Grating	375mm	120mm	0.9kg	A	110mm
SU.LA.100.92.CMGG	Lite Aqua 100.92 Sump Unit + Composite Mesh Grey Grating	375mm	120mm	0.7kg	A	110mm
ECG.LA.100.92	Lite Aqua 100.92 End Cap Grey	78mm	110mm	0.1kg	-	-
VO.LA.100	Lite Aqua 100 - 100mm Vertical Outlet	35mm	110mm	0.3kg	-	-

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LITE AQUA - Galvanised Edge Rail

Colour Options

Black

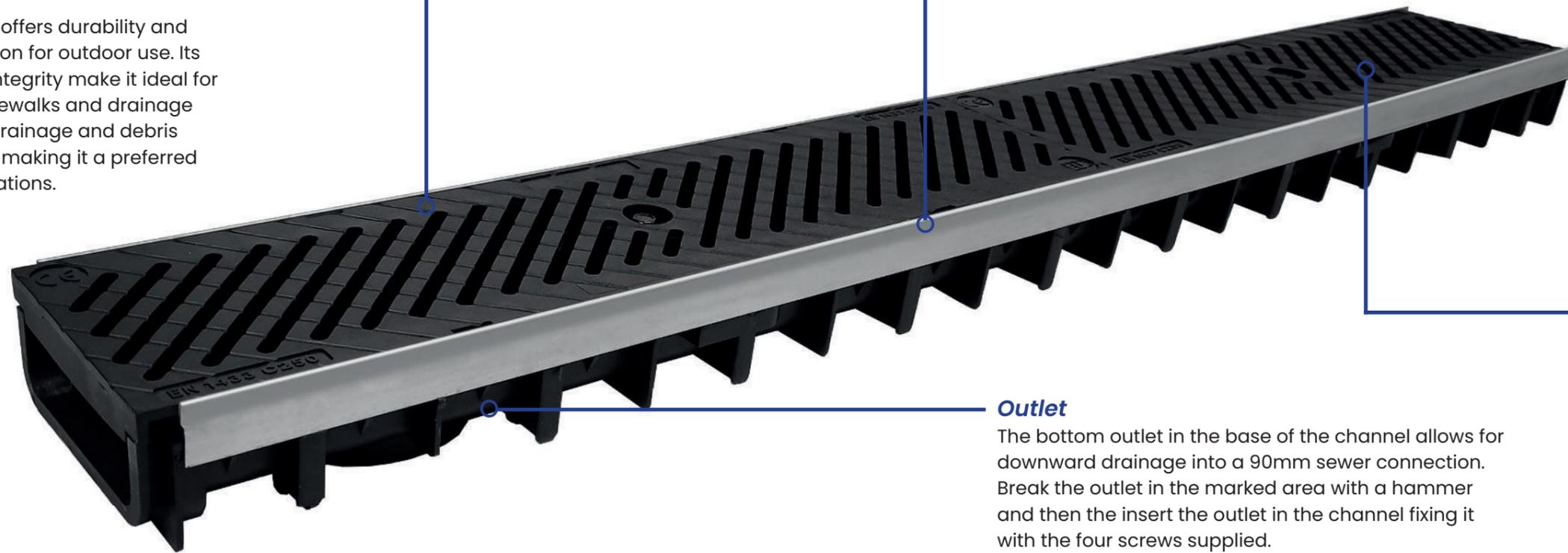


Grating Options

Composite Mesh grating offers durability and strength, resisting corrosion for outdoor use. Its flexibility and structural integrity make it ideal for high-traffic areas like sidewalks and drainage systems. Efficient water drainage and debris filtration enhance safety, making it a preferred choice for various applications.

Galvanised Edge Rail

The incorporation of a galvanised edge rail significantly enhances the functionality and strength of the Lite Aqua channels. By providing a corrosion-resistant barrier, the galvanised edge rail ensures that the channels remain structurally sound and durable, even in harsh environmental conditions.



SAFEHEEL

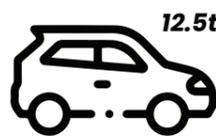
Outlet

The bottom outlet in the base of the channel allows for downward drainage into a 90mm sewer connection. Break the outlet in the marked area with a hammer and then insert the outlet in the channel fixing it with the four screws supplied.

Load Classes



A15



B125



C250

Depth Options



55mm



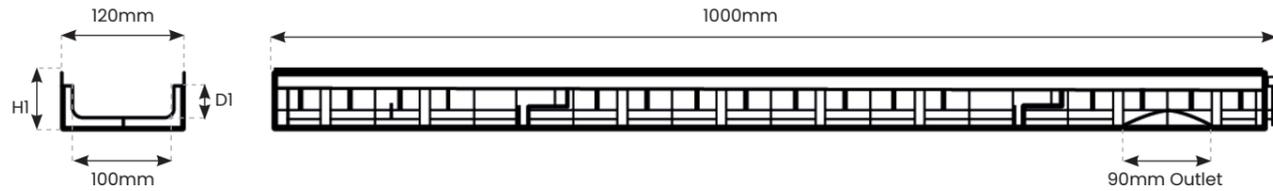
92mm

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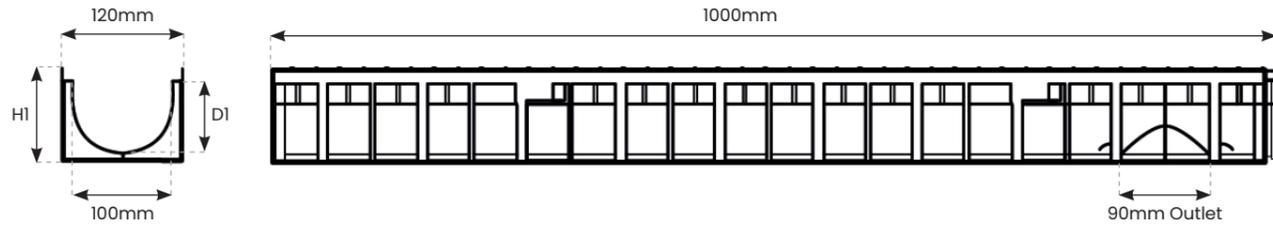
LITE AQUA - Galvanised Edge Rail

The Lite Aqua 55 & 92 are lightweight systems made from polyethylene. They both have an incredibly shallow depth of 55mm and 92mm, making it ideal if you have digging restrictions on site. This system is perfect for urban and domestic projects where slow-moving traffic and pedestrians will be traveling across it.

Lite Aqua Channel - 55mm depth



Lite Aqua Channel - 92mm depth



Grating Options - 55/92mm



Composite Slotted (C250)

Grating - Specifications

Reference	Description	Internal Width	Overall Width	Overall Depth(H1)	Internal Depth(D1)	Load Class	Safe Heel
LA.100.55.CSG	Lite Aqua 100.55 - 1m Galv Edge + Composite Slotted Grating	100mm	120mm	55mm	35mm	A/B/C	Yes
LA.100.92.CSG	Lite Aqua 100.92 - 1m Galv Edge + Composite Slotted Grating	100mm	120mm	92mm	82mm	A/B/C	Yes

Accessories

The Lite Aqua 55 and 92 has a complete range of accessories to complete the system. It has end caps and corner units with matching grating tops. The end caps are used for blocking off the end of the channel run while the corner units allow the system to be able to turn 90° corners within the channel run.



Ductile Iron Safeheel Slotted Sump Unit - 55mm depth



Ductile Iron Safeheel Slotted Sump Unit - 92mm depth

Corner Units

There is a matching corner unit for each depth options. The corner units come with a built-in foul air trap to stop unwanted smells from travelling back up through the system.



Ductile Iron Safeheel Slotted - 55mm depth



Ductile Iron Safeheel Slotted - 92mm depth

End Cap & Outlet

End caps are used at the end of the channel run to stop the flow of water.



Outlet



End Cap - 55mm



End Cap - 92mm

End Cap Outlet

End Cap Outlet can be used at the end of the run to allow water to be taken to your exterior drainage pipes and away from the channel.



End Cap Outlet - 55mm



End Cap Outlet - 92mm

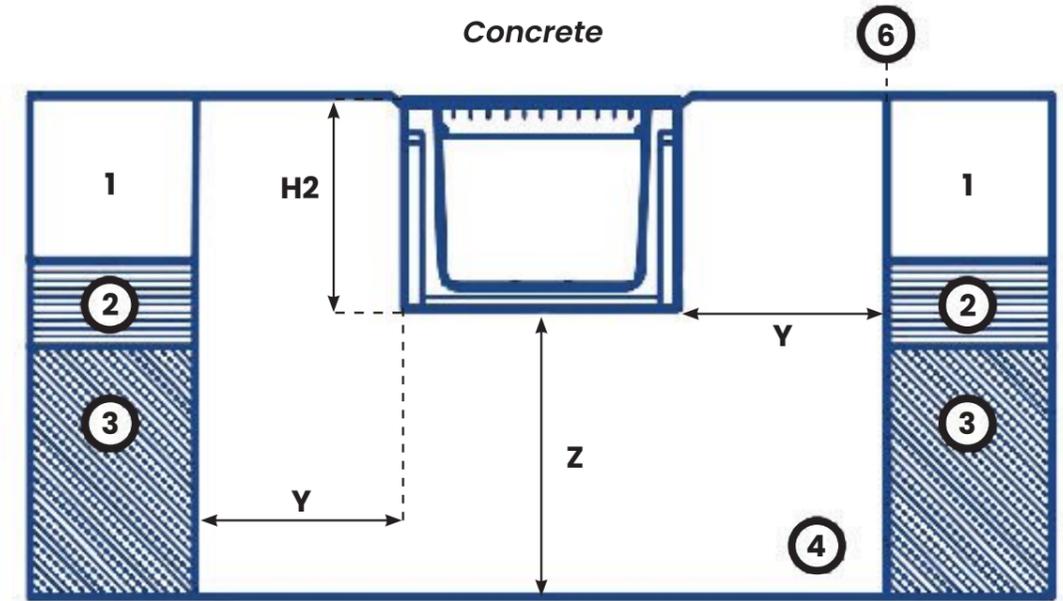
Accessories - Specifications

Reference	Description	Height (H)	Overall Width	Weight (KG)	Load Class	Outlet
CU.LA.100.55.DISG	Lite Aqua 100.55 Corner Unit + Ductile Iron Slotted Grating	55mm	120mm	1.2kg	A/B	110mm
SU.LA.100.55.DISG	Lite Aqua 100.55 Sump Unit + Ductile Iron Slotted Grating	335mm	120mm	1.5kg	A/B	110mm
EC.LA.100.55	Lite Aqua 100.55 End Cap	36mm	110mm	0.1kg	-	-
VO.LA.100.55	Lite Aqua 100.55 110mm Vertical Outlet	35mm	110mm	0.3kg	-	-
CU.LA.100.92.DISG	Lite Aqua 100.92 Corner Unit + Ductile Iron Slotted Grating	92mm	120mm	1.2kg	A/B/C	110mm
SU.LA.100.92.DISG	Lite Aqua 100.92 Sump Unit + Ductile Iron Slotted Grating	370mm	120mm	1.5kg	A/B/C	110mm
EC.LA.100.92	Lite Aqua 100.92 End Cap	78mm	110mm	0.1kg	-	-
VO.LA.100.92	Lite Aqua 100.92 110mm Vertical Outlet	35mm	110mm	0.3kg	-	-

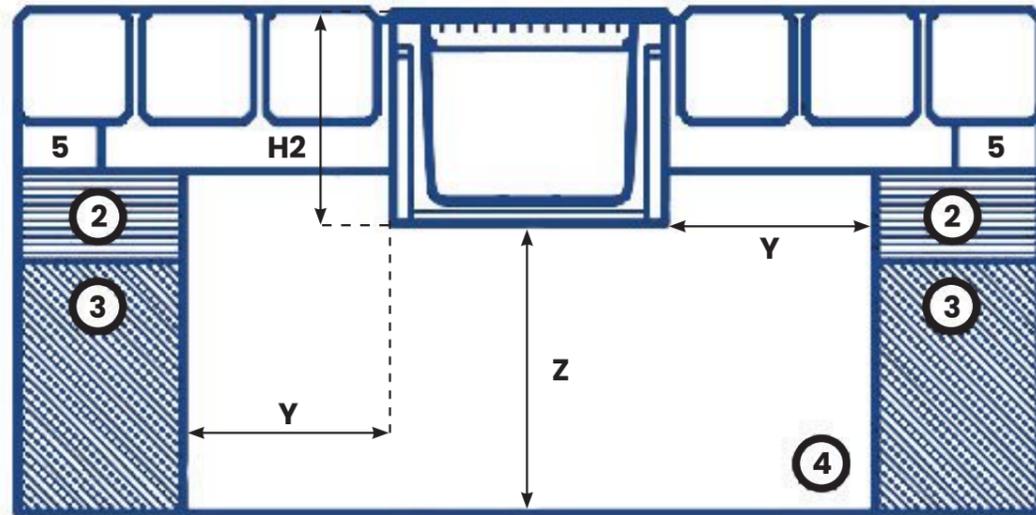
Available to order from The Gutter Centre
 Tel: 0330 2231731 Email: sales@guttercentre.co.uk

Installation Guide

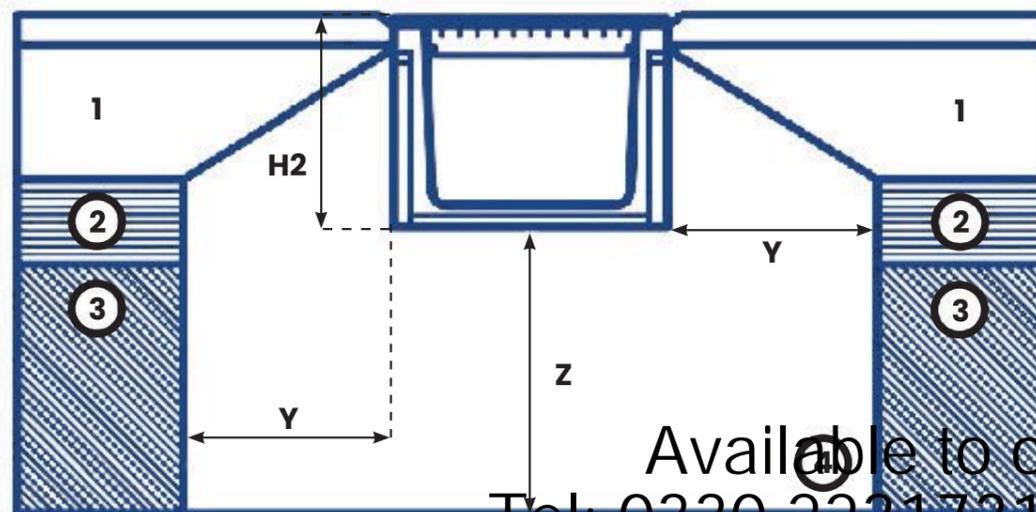
Ground conditions must be suitable and all dimensions shown are the minimum requirement. Engineering advice should be taken where necessary and any questions should be directed to Polycon's technical team by emailing us at sales@polycon.co.uk or by calling us on **0151 424 9747**.



Block Paving



Tarmac



Load Class	A15	B125	C250
H2 - Channel Height	Channel Height	Channel Height	Channel Height
Y - Minimum Surround	100mm	150mm	150mm
Z - Minimum Surround	100mm	150mm	150mm
T1 - Minimum Depth	40mm	40mm	40mm
T2 - Maximum Depth	95mm	55mm	55mm

** Minimum Concrete Haunch 25 N/mm².
Detail A allow for overbuild of 3mm to 5mm above the grating surfaces.

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