



RISER RINGS, CONES AND COVERS

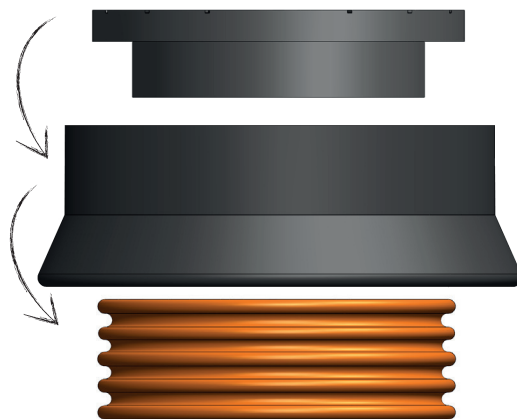
made from recycled plastic

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Eks: 315 og 425 mm constructions pipe with cone and covers in recycled plastic

Sewer products for professionals



Do you need any help?

Open:

Man - thursday: 7.30 - 16.00

Friday: 7.30 - 14.30

Contact information:

Supportphone.: +45 7516 9031

E-mail: info@lrt.dk

Having more than 25 years of experience as a producer and serviceprovider Lauridsen is one of the leading suppliers within HWAC in Denmark

Through our wholesalers and building supply's we distribute products solving the most basic needs, which we in everyday life do not think about. A large part of our products are hidden behind walls, floors, road or parkinglots etc.

We thrive living quiet. The most important thing for us is that we can solve one or more challenges for our customers. If the entrepreneur/installer needs a coupling for special measures we will do our outmost to deliver a solution as fast as possible. We know that having an excavator and a crew standing still is costly.

Our high service is based on the fact that we have our own production, a large assortment in stock and a good cooperation with our customers. We deliver the right solutions to our customers in a timely manner with pride.

Cooperating with us will give you access to some of the best solutions within handling of wastewater. We are always ready to help engineers, entrepreneurs and installers with calculations and guidance in some of the best products available on the market.

Riser rings, Cones & Covers

We have a large selection of riser rings, cones, frames and covers for chambers. Riser rings and cones are manufactured from recycled plastic, while the covers are made in both recycled plastic and fibreglass.

The characteristics by both materials is that they have a low weight and a high strength. Riser rings are primarily used for adjusting the heights of the chambers.

Riser rings

Riser rings regulates the height of a chamber, but they also ensure that the construction is stable when loaded by traffic. A riser ring i recycled plastic ensures that the friction between the cast iron and the chamber is reduced to avoid stressing the reduction. The riser ring is thus an important element in the construction of a chamber, which ensures a long lifetime.

Riser rings can be ordered in different dimensions from Ø280 to Ø800 mm, and the height varies from between 9/22 mm to 200 mm. They are available with or without rabbet. A riser ring with rabbet is patentet and the rabbet ensures that the constuction is stable and does not slide during the build up. If a tight connection is required for example at a fuel- or oilseparators it is suggested to use the riser rings with rabbet. To get a tight seal it is important that a oilresistant sealer is used in the groove between the riser rings.

Advantages

- Extends the lifetime on the chamber
- High strenght - low weight
- Easy to handle
- Reduces frictions
- Protects against heavy loads
- Do not break or cracks
- Manufactured from recycled plastic

Cones

Cones are also available with or without rabbet. However they fit on both types of manholes rings. Cones are often placed on the top of the chamber, in green areas and is afterwards finished with a cover. This is a nice looking solution, which fits into the environment. If the cone and cover with rabbet is used the chamber is secured against fallen materials.

Covers

The cover with rabbet in recycled plastic can be used as protection lid for a shaft pipe while the construction is still ongoing. This protects the sewer system against fallen materials.

Advantes

- minimum 30 years lifetime
- no maintenance
- economical solution
- no slivers
- sustainable
- High strength - low weight
- Adapts for uneven and skewed surfaces
- Is not destroyed during transport

Our fibreglass solutions are available with fixed frame and cover. The solution can be delivered with both round and square frame. The solutions are avalable in load class B, 12,5 tons. Sizes available is from Ø315 to Ø1000 mm.

All covers has an aesthetic surface, which fits into most areas. Most of the covers has a stainless locking system securing that the covers are not removable without tools. The square frames with covers makes it easy to lay paving stones around it.





Riser rings, cones
& covers

1.0

Riser ring

1.1



All the Riser ring
are for load
classes D 400

Riser ring in recycled plastic

Maintain the integrity of your infrastructure by reducing traffic vibration damage. The riser ring is a simple, economic, efficient, and long-lasting solution for manhole structure damage problems. It dissipates the energy transferred between the casting and the manhole structure. Since the surfaces are separated by the riser ring, the friction/stress component is dramatically reduced. These two elements then work together, rather than against each other, to help maintain the integrity of the infrastructure support system. It maximises performance and extends the lifetime of the manhole structure.

Advantages

- Extends lifetime of manhole structure
- High strengt - low weight
- Easy to handle
- Reduces traffic vibration damage
- Protects against load concentration
- Will not break or crack
- Made by recycled plastic



Quality control

Temp.	Pressure KN	Approved
+ 23°C	500	✓
- 30°C	500	✓
- 65°C	210	✓

Test is performed by Force Institute (Equipment: Amsler 600KN).
No defects or damage were found to the tested items.

The riser rings have been installed in DK, NO, SV for more than 20 years without complaints and damage.

Profiles

With rabbet and groove



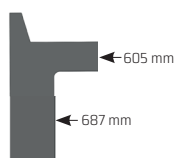
Without rabbet



Adjustment ring



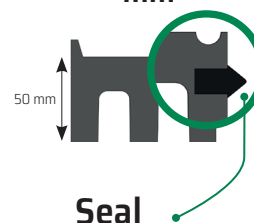
Topfinisher Ø600 mm



Asphalt stop Ø300 og Ø280 mm



Asphalt stop or riser-ring with seal Ø600 mm



Ø600 riser rings on concrete cone.



Ø600 well raised with riser rings and fixed frame



Ø600 well raised with riser rings and floating frame

1.1.1 Riser rings with rabbet, sealing groove and cut edge



Name	Dimension (mm)	Heigh (mm)	Product no.	DB-no.	No. per pallet
320x30 DK VA Riser ring wiht rabbet	315	30	225595033	5274287	120
320x50 DK VA Riser ring wiht rabbet	315	50	225595035	5274288	80
320x100 DK VA Riser ring with rabbet	315	100	225595036	5274290	40

1.1.2 Riser rings with rabbet and sealing groove



Name	Dimension (mm)	Heigh (mm)	Product no.	DB-no.	No. per pallet
435x15 DK VA Riser ring	425	15	225595040	5274291	120
435x9/22 DK VA Riser ring	425	9/22	225595042	5274294	120
435x30 DK VA Riser ring	425	30	225595043	5274295	60
435x50 DK VA Riser ring	425	50	225595045	5274297	40
435x100 DK VA Riser ring	425	100	225595046	5274299	20
605x15 DK VA Riser ring	600	15	225595060	5274300	60
605x9/22 DK VA Riser ring	600	9/22	225595062	5274301	60
605x30 DK VA Riser ring	600	30	225595063	5274302	30
605x50 DK VA Riser ring	600	50	225595065	5274303	20
605x100 DK VA Riser ring	600	100	225595066	5274304	10
605x150 DK VA Riser ring	600	150	225595067	5274305	7
605x200 DK VA Riser ring	600	200	225595068	5274306	5
800x15 DK VA Riser ring	800	15	225595080	5274307	60
800x9/22 DK VA Riser ring	800	9/22	225595082	5274308	60
800x30 DK VA Riser ring	800	30	225595083	5274309	30
800x50 DK VA Riser ring	800	50	225595085	5274311	20
800x100 DK VA Riser ring	800	100	225595086	5274312	10

FORCE tested

1.1.3 Topfinisher with rabbet, and sealing groove



Name	Dimension (mm)	Height (mm)	Product no.	DB-nr.	No. per pallet
605x50 Topfinisher with seal	600	50	100200065	1815590	20
605x100 Topfinisher with seal	600	100	100200066	1815591	10
605x100 Topfinisher milled 40x70mm (Ø685)	600	100	100200069	1815592	10
605/687x100 Topfinisher milled 50x50 mm	600	100	100200076		10
605/700 x 200 VA Topfinisher milled 50x150 mm	600	200	225597069		5



The groove makes it easy to seal the riser rings

The rabbet ensures that the riser rings are stable during transportation and that they don't shift during mouting.

Sustainability

Sustainability is a central part of our organisation. In our business we work with sustainability in three different ways :

Passionate about correct treatment of wastewater

- ✓ We deliver solutions and advice that ensures that wastewater is treated in the most environmentally friendly way.

Green environment

- ✓ We take responsibility for EU's objectives within recycling of plastic, as we in parts of our production solely use recycling plastic.

Responsibility

- ✓ We appreciate our employees which is why we are focusing on creating a work environment where inclusion and safety is our top priority. We want our employees to be acknowledged and developed so they can be able to grow with a task, be happy at work and provide the best service for our customers. We treat our employees from the basis of: "treat your employees well and they will treat your customers well."

1.1.4 Riser ring without rabbet



Name	Dimension (mm)	Heigh (mm)	Product no.	DB-nr.	No per pallet
280x10 DK VA Riser ring	280	10	225595019	5274279	300
300x10 DK VA Riser ring	300	10	225595029	5274281	300
320x15 DK VA Riser ring	315	15	225595030	5274284	180
320x9/22 DK VA Riser ring	315	9/22	225595032	5274286	180
320x30 VA Riser ring wo. rabbet - flat	315	30	225597033	1935150	120
320x50 VA Riser ring wo. rabbet - flat	315	50	225597035	1935153	80
320x100 VA Riser ring wo. rabbet - flat	315	100	225597036	1935154	40
435x15 DK VA Riser ring	425	15	225595040	5274291	120
435x9/22 DK VA Riser ring	425	9/22	225595042	5274294	120
435x30 VA Riser ring wo. rabbet	425	30	225597039	5928051	60
435x50 VA Riser ring wo. rabbet	425	50	225597040	5928052	40
435x100 VA Riser ring wo. rabbet	425	100	225597041	5928053	20
500x15 mm VA Riser ring wo. rabbet	500	15	225597050		100
500x9/22 mm VA Riser ring wo. rabbet	500	9/22	225597049		100
500x30 mm VA Riser ring wo. rabbet	500	30	225597051		60
500x50 mm VA Riser ring wo. rabbet	500	50	225597052		35
500x100 mm VA Riser ring wo. rabbet	500	100	225597053		18
600x10 mm VA Riser ring wo. rabbet	600	10	225595059		120
600x15 mm VA Riser ring wo. rabbet	600	15	225595060	5274300	60
600x9/22 mm VA Riser ring wo. rabbet	600	9/22	225595062	5274301	60
600x30 mm VA Riser ring wo. rabbet	600	30	225597059	1689965	30
600x50 mm VA Riser ring wo. rabbet	600	50	225597060	1689973	20
600x100 mm VA Riser ring wo. rabbet	600	100	225597061	1689982	10
640x15 mm VA Riser ring wo. rabbet	640	15	225597258		60
640x9/22 mm VA Riser ring wo. rabbet	640	9/22	225597262	1502918	60
640x30 mm VA Riser ring wo. rabbet	640	30	225597259	1502913	30
640x50 mm VA Riser ring wo. rabbet	640	50	225597260	1502916	20
640x100 mm VA Riser ring wo. rabbet	640	100	225597261	1502917	10
800x15 mm VA Riser ring wo. rabbet	800	15	225595080	5274307	60
800x9/22 mm VA Riser ring wo. rabbet	800	9/22	225595082	5274308	60
800x30 mm VA Riser ring wo. rabbet	800	30	225597079	5237668	50
800x50 mm VA Riser ring wo. rabbet	800	50	225597080	5237672	20
800x100 mm VA Riser ring wo. rabbet	800	100	225597086		10

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1.1.5 Riser ring without rabbet, with cut edge



Name	Dimension (mm)	Heigh (mm)	Product no.	DB-nr.	No. per pallet
500x15 mm VA Riser ring wo. rabbet	500	15	225597055		200
500x30 mm VA Riser ring wo. rabbet	500	30	225597056		120
500x50 mm VA Riser ring wo. rabbet	500	50	225597057		70
500x100 mm VA Riser ring wo. rabbet	500	100	225597058		36

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Services



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Calculations and dimensioning for free

We always give counselling, calculations and dimensioning free of charge. Don't hesitate to contact us if you have a project where you need our experts to assist you.



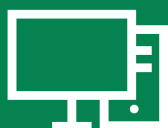
Stock-keeping on products for urgent task

We have a big warehouse available to ensure that you can solve all the issues you might bump into. We know that it is expensive to have an excavator and a crew standing still because a spare part is missing.

1.1.6 Riser ring with rabbet and/or groove to the Norwegian market



Name	Dimension (mm)	Heigh (mm)	Product no.	No. per pallet	Profil
Riser ring with rabbet F50	650	50	2185369	20	
Topfinisher with rabbet FA50	650	50	2185367	12	
Topfinisher with rabbet FA100	650	100	2185368	8	
Riser ring with groove N50	650	50	2185823	20	
Riser ring with groove N100	650	100	2185824	10	
Topfinisher with groove NA50	650	50	2185821	12	
Riser ring as a transition from groove to rabbet NF 50	650	50	2185372	20	
Rabbet finisher ring FA50/800	800	50	2185467	20	
Rabbet increase ring F50/800	800	50	2185469	20	



Find the right product in seconds

With our product selector you are quickly guided towards the right product. Two to three questions is all it takes for us to guide you in the right direction. Enter the dimension, pick the height and you have found your product. Try our product selector on www.lhi.dk



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Responsible consumption and production

FN's sustainable development goal no. 12: Responsible consumption and production

We need to ensure a sustainable consumption and ways of production. The increasing pressure on the primary resources on Earth is increasing the need for developing and using circular and responsible processes where new products are made from residual products.

SDG no. 12

How we do it:

Reusing plastic

From cablecap to new products

As one of the leading suppliers of riser rings, cones and covers we felt obligated to supply products, which is good for the environment and which is supporting the goals on reusing plastic.

We used more than 1000 tons of plastic from cables in our production of riser rings, cones and covers. To reuse plastic which would have otherwise ended up on the combustion facility makes good sense. Not only do you have a CO2 saving in relation to the reused plastic, but there is also a saving in relation to the CO2 a new product in for instance concrete would emit.

In our own production we only use recycled plastic and if we have a faulty product we crush it to granulate and reuse it for a new product. We work with a circular mindset in our production.

Short and simple



We ensure that the plastic does not end up on a combustion facility



We make new products from this recycled material



We reuse excess material from cable recycling



Our products increase the lifetime of chambers



All our waste is crushed to granulate and is being reused for new products.

Cones

1.2



Find all details
drawings at
Lauridsenint.com

Cones

Cones are also available with or without rabbet. However they fit on both types of manholes rings. Cones are often placed on the top of the chamber, in green areas and is afterwards finished with a cover. This is a nice looking solution, which fits into the environment. If the cone and cover with rabbet is used the chamber is secured against fallen materials..

Advantages

- minimum 30 years lifetime
- no maintenance
- economical solution
- no slivers
- sustainable
- High strength - low weight
- Adapts for uneven and skewed surfaces
- - Is not destroyed during transport

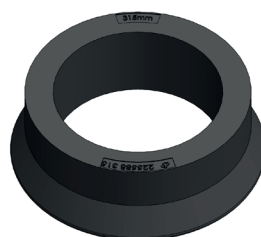


1.2.1 Cones with rabbet



Name	Dimension (mm)	Heigh (mm)	Product no.	DB-nr.	No. per pallet
Ø315 cone with rabbet	315	180	225586315	5387513	20
Ø425 cone with rabbet	425	180	225586425	5387506	10
Ø605/700 x 200 VA Topfinisher/light cone ★	600	200	225597069		5
Ø600/710 cone with rabbet to cover	600	180	225586616		10

1.2.2 Cones



Names	Dimension (mm)	Heigh (mm)	Product no.	DB-nr.	No. per pallet
Ø315 cones	315	180	225588315	1689940	20
Ø425 cones	425	180	225588425	1689946	10
Ø600/710 cones with edge	600	180	225586600		10
Ø600/710 cones without edge	600	180	225586601		10
Ø680 cones without edge and rabbet	600	180	225588680		10
Ø680 cones with edge, but without rabbet	600	180	225588681		10



Covers & frames

1.3



See all the
products at
Lauridsenint.com

Covers for chambers & frames

The cover with rabbet in recycled plastic can be used as protection lid for a shaft pipe while the construction is still ongoing. This protects the sewer system against fallen materials.

Advantages

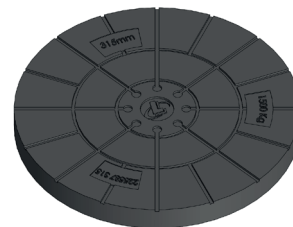
- minimum 30 years lifetime
- no maintenance
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- Is not destroyed during transport

Our fibreglass solutions are available with fixed frame and cover. The solution can be delivered with both round and square frame. The solutions are available in load class B, 12,5 tons. Sizes available is from Ø315 to Ø1000 mm.

All covers has an aesthetic surface, which fits into most areas. Most of the covers has a stainless locking system securing that the covers are not removable without tools. The square frames with covers makes it easy to lay paving stones around it.

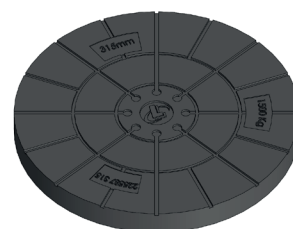


1.3.1 Covers in recycled plastic with rabbet



Name	Dimension (mm)	Heigh (mm)	Load	Product no.	DB-nr.	No. per pallet
Ø315 cover with rabbet	315	120	1500 kg	225585315	5387518	20
Ø425 cover with rabbet	425	125	1500 kg	225585425	5387515	20

1.3.2 Covers in recycled plastic without rabbet



Name	Dimension (mm)	Heigh (mm)	Load	Product no.	DB-nr.	No. per pallet
Ø315 cover	315	60	1500 kg	225587315	1689936	80
Ø425 cover	425	75	1500 kg	225587425	1689944	30
Ø600 cover	600	55		225597157	5795402	10

1.3.3 Round frame and Cover in PE



Name	Dimension (mm)	Heigh (mm)	Load	Product no.	DB-nr.	No. per pallet
Round frame/cover Ø600 in PE with a lock (incl. key)	600	90	A 15 (1,5 t)	225581600	2021142	46

1.3.4 Round frames and covers in fiberglass



Name	Dimension (mm)	Heigh (mm)	Load	Product no.	DB-nr.	No. per pallet
Round frame/cover Ø315/400 in fiberglass	315	54	B 125 (12,5 t)	225583040	1250348	10
Round frame/cover Ø600 in fiberglass	600	85	B 125 (12,5 t)	225583060	1250349	10

1.3.4 Round frame and cover in fiberglass



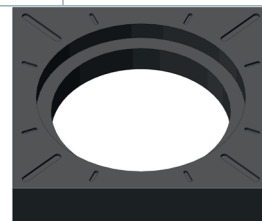
Name	Dimension (mm)	Heigh (mm)	Load	Product no.	DB-nr.	No. per pallet
Round frame/cover Ø700 in fiberglass	700	105	B 125 (12,5 t)	225583070	1250350	8
Round frame/cover Ø800 in fiberglass	800	100	B 125 (12,5 t)	225583080	2121021	10
Round frame/cover Ø800 in fiberglass	1000	100	B 125 (12,5 t)	225583100	2121022	10

1.3.5 Square frame with round cover in fiberglass



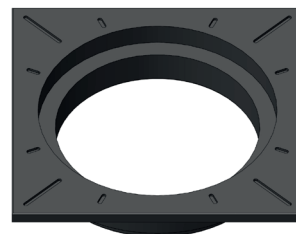
Name	Dimension (mm)	Heigh (mm)	Load	Product no.	DB-nr.	No. per pallet
Square frame/cover Ø600 in fiberglass	600	85	B 125 (12,5 t)	225582600	1451614	10

1.3.6 Square frame heigh model



Name	Dimension (mm)	Heigh (mm)	Product nr.	No. per pallet
Square frame Ø315 - heigh model	315	100	225582314	40
Square frame Ø425 - heigh model	425	110	225582424	20

1.3.7 Square frame low model



Name	Dimension (mm)	Heigh (mm)	Product no.	DB-nr.	No. per pallet
Square frame Ø315 - low model	315	100	225582315	1451612	40
Square frame Ø425 - low model	425	110	225582425	1451613	20

Sustainable Energi

FN's sustainable development goal no. 7:

Vi need to ensure that all has access to reliable, sustainable and modern energi at a resonable price. With the population increasing the need for energi follows. This puts our ecosystems under pressure. Use of fossile fuels with increase the climatic changes, which is why sustainable energi sources are needed.

SDG no. 7

How we do it:

Solar panels and LED lightning

Our consumption of electricity in Denmark is reduced with 33%

We want to drive our business using sustainable energi sources. Lauridsen has invested in solar energi overproportionally to our energi consumption in our factory in Poland as well as in our facility in Denmark. By investing in solar energi we create a supply of "green" energi, which can replace the "black" energi. Our investment in solar energi links directly into sub-goal 7.2, where the ambition is to increase the share of sustainable energi in our global energymix. Besides all this we buy our power from Natur-Energi, which supplies certified power from sustainable danish energysources.

At last we have optimized our energi consumption by investing in LED light. An investment which is expected to reduce our power consumption by 33%. This initiative links into sub-goal 7.4, which suggests that the global pace in which we optimize on energi efficiency must be doubled towards 2030. We expect to be ahead of that curve.

Short and simple



We invest in solar energi proportionally with our own energi consumption



We have invested in LED lightning, which have consumption our electricity in Varde with 33%



All power buyes from Natur-Energi, which supplies certified power from sustainable daish energysources.



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